

## Description

A patient is hospitalized for substance abuse. The physician orders a hepatitis panel through the hospital's EHR system to test for Hepatitis A, B and C antibodies/antigens. The serum specimen is collected the same day at in the morning and submitted to the hospital lab for testing via their LIS right after it was drawn. A few hours later the patient's test results are as follows:

- (1)Hepatitis A IgM antibodies (IgM anti-HAV) "Negative"
- (2)Hepatitis A antibodies (anti-HAV) "Negative"
- (3)Hepatitis B core antibodies (anti-HBVC) "Negative"
- (4)Hepatitis B core antibodies (anti-HBVC) quantitative 0.40 IU/mL (reference range: <0.50 IU/mL)
- (5)Hepatitis B virus e antibodies (anti-HBVe) "Negative"
- (6)Hepatitis B surface antigen (HBVsAg) "Negative"
- (7)Hepatitis B surface antibody (anti-HBVs) "Negative"
- (8)Hepatitis C antibody screen (anti-HCV) "Positive"
- (9)Hepatitis C antibodies Signal to Cut-off Ratio 10.8 s/co (reference range: 0.0-0.9 s/co)

Per CDC recommendations, a confirmatory Hepatitis C RNA PCR test is performed because of the positive Anti-HCV findings. The next day, the Hepatitis C RNA PCR test results confirm the patient is positive for hepatitis, with a value of 761120 IU/ml (reference range: < 43). The Hepatitis C results trigger an Abnormal Flag or "High", as well as the comment:

"Negative: < 0.8, Indeterminate 0.8 - 0.9, Positive: > 0.9. In order to reduce the incidence of a false positive result, the CDC recommends that all s/co ratios between 1.0 and 10.9 be confirmed with additional Verification or PCR testing."

The final report is completed on that day and sent to the ordering provider.

## Comments

This is the reflex message.

Special case test aspects include ensuring that the system can correctly process the data elements for linking parent/child results in accordance with the requirements specified in the implementation guide for the FRN and FRU profiles.

## PreCondition

Patient information is pre-loaded in the EHR-S.

and LRI\_5.1\_1.1-NG\_FRN message has been received and incorporated.

## PostCondition

The test message information received by the EHR-S has been incorporated with the patient's record.

## TestObjectives

- Demonstrate the capability of the EHR-S to import and incorporate Parent-Child Reflex results.
- Tests support for multiple comments for one test result.

## Notes to Testers

For display verification focus on these areas:

Proper display of the results (OBX-5) with structured numeric format (#4 and 9) with interpretations (OBX-8)

Comments for result of the lab result identified as "Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay" is properly grouped with its result.

Results for the Reflex test are properly associated with the result that spawned its creation, which is the detection of Hepatitis C virus Antibody in Serum, as part of the Hepatitis A B C Panel screen.

## Test Case Information

## LRI\_5.1\_2.1-NG\_FRN - Reflex - Hepatitis

Test Case ID

LRI\_5.1\_2.1-NG\_FRN

## MSH

Location	Data Element	Data	Categorization
MSH.1	Field Separator		IG Fixed Data
MSH.2	Encoding Characters	~\&	IG Fixed Data
MSH.3	Sending Application		
MSH.3.1	Namespace ID	NIST Test Lab APP	Configurable Data
MSH.4	Sending Facility		
MSH.4.1	Namespace ID	NIST Lab Facility	Configurable Data
MSH.6	Receiving Facility		
MSH.6.1	Namespace ID	NIST EHR Facility	Configurable Data
MSH.7	Date/Time Of Message		
MSH.7.1	Time	20150926160001	System Generated
MSH.9	Message Type		
MSH.9.1	Message Code	ORU	IG Fixed Data
MSH.9.2	Event Type	R01	IG Fixed Data
MSH.9.3	Message Structure	ORU_R01	IG Fixed Data
MSH.10	Message Control ID	LRI_5.1_2.1-NG_FRN	System Generated
MSH.11	Processing ID		
MSH.11.1	Processing ID	D	Changeable Data
MSH.12	VersionID		
MSH.12.1	Version ID	2.5.1	IG Fixed Data
MSH.15	Accept Acknowledgment Type	AL	IG Fixed Data
MSH.16	Application Acknowledgment Type	AL	IG Fixed Data
MSH.21	Message Profile Identifier		
MSH.21.1	Entity Identifier	LRI_NG_FRN_Profile	IG Fixed Data
MSH.21.3	Universal ID	2.16.840.1.113883.9.195.3.4	IG Fixed Data
MSH.21.4	Universal ID Type	ISO	IG Fixed Data

## PID

Location	Data Element	Data	Categorization
PID.1	Set ID - PID	1	IG Fixed Data
PID.3	Patient Identifier List		
PID.3.1	ID Number	PATID1239	Configurable Data
PID.3.4	Assigning Authority		
PID.3.4.1	Namespace ID	NIST MPI	Changeable Data
PID.3.5	Identifier Type Code	MR	Configurable Data
PID.5	Patient Name		
PID.5.1	Family Name		
PID.5.1.1	Surname	Smirnoff	Changeable Data
PID.5.2	Given Name	Peggy	Changeable Data
PID.5.7	Name Type Code	L	Changeable Data
PID.7	Date/Time of Birth		
PID.7.1	Time	19750401	Changeable Data
PID.8	Administrative Sex	F	Changeable Data
PID.10	Race		
PID.10.1	Identifier	2106-3	Changeable Data
PID.10.2	Text	White	Changeable Data
PID.10.3	Name of the Coding System	HL70005	Changeable Data
PID.18	Patient Account Number		
PID.18.1	ID Number	PATID1239	Configurable Data
PID.18.4	Assigning Authority		

PID.18.4.1 Location	Namespace ID Data Element	NIST MPI Data	Changeable Data Categorization
PID.18.5	Identifier Type Code	AN	Configurable Data

#### ORC

Location	Data Element	Data	Categorization
<b>ORC.1</b>	<b>Order Control</b>	RE	Test Case Fixed Data
<b>ORC.2</b>	<b>Placer Order Number</b>		
ORC.2.1	Entity Identifier	ORD448811	Changeable Data
ORC.2.2	Namespace ID	NIST EHR	Changeable Data
<b>ORC.3</b>	<b>Filler Order Number</b>		
ORC.3.1	Entity Identifier	R-511	Changeable Data
ORC.3.2	Namespace ID	NIST Lab Filler	Changeable Data
<b>ORC.12</b>	<b>Ordering Provider</b>		
ORC.12.1	ID Number	5742200012	Changeable Data
ORC.12.2	Family Name		
ORC.12.2.1	Surname	Radon	Changeable Data
ORC.12.3	Given Name	Nicholas	Changeable Data
ORC.12.6	Prefix (e.g., DR)	DR	Changeable Data
ORC.12.9	Assigning Authority		
ORC.12.9.1	Namespace ID	NPI	Changeable Data
ORC.12.10	Name Type Code	L	Changeable Data
ORC.12.13	Identifier Type Code	NPI	Changeable Data

#### OBR

Location	Data Element	Data	Categorization
<b>OBR.1</b>	<b>Set ID - OBR</b>	1	IG Fixed Data
<b>OBR.2</b>	<b>Placer Order Number</b>		
OBR.2.1	Entity Identifier	ORD448811	Changeable Data
OBR.2.2	Namespace ID	NIST EHR	Changeable Data
<b>OBR.3</b>	<b>Filler Order Number</b>		
OBR.3.1	Entity Identifier	R-511	Changeable Data
OBR.3.2	Namespace ID	NIST Lab Filler	Changeable Data
<b>OBR.4</b>	<b>Universal Service Identifier</b>		
OBR.4.1	Identifier	HepABC Panel	Changeable Data
OBR.4.2	Text	Hepatitis A B C Panel	Changeable Data
OBR.4.3	Name of Coding System	L	Changeable Data
<b>OBR.7</b>	<b>Observation Date/Time</b>		
OBR.7.1	Time	20150925	Changeable Data
<b>OBR.16</b>	<b>Ordering Provider</b>		
OBR.16.1	ID Number	5742200012	Changeable Data
OBR.16.2	Family Name		
OBR.16.2.1	Surname	Radon	Changeable Data
OBR.16.3	Given Name	Nicholas	Changeable Data
OBR.16.6	Prefix (e.g., DR)	DR	Changeable Data
OBR.16.9	Assigning Authority		
OBR.16.9.1	Namespace ID	NPI	Changeable Data
OBR.16.10	Name Type Code	L	Changeable Data
OBR.16.13	Identifier Type Code	NPI	Changeable Data
<b>OBR.22</b>	<b>Results Rpt/Status Chng - Date/Time</b>		
OBR.22.1	Time	20150926140500-0800	Changeable Data
<b>OBR.25</b>	<b>Result Status</b>	F	Test Case Fixed Data

#### OBX

Location	Data Element	Data	Categorization
<b>OBX.1</b>	<b>Set ID - OBX</b>	1	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	CWE	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		

OBX.3.1 Location	Identifier	Data Element	22314-9	Data	Test Case Fixed Data	Categorization
OBX.3.2	Text			Hepatitis A virus IgM Ab [Presence] in Serum		Test Case Fixed Data
OBX.3.3	Name of the Coding System			LN		Test Case Fixed Data
OBX.3.4	Alternate Identifier			HAVM		Changeable Data
OBX.3.5	Alternate Text			Hepatitis A IgM antibodies (IgM anti-HAV)		Changeable Data
OBX.3.6	Name of Alternate Coding System			L		Changeable Data
OBX.3.7	Coding System Version			2.52		Changeable Data
<b>OBX.5</b>	<b>Observation Value</b>					
OBX.5.1	Identifier			260385009		Test Case Fixed Data
OBX.5.2	Text			Negative (qualifier value)		Test Case Fixed Data
OBX.5.3	Name of the Coding System			SCT		Test Case Fixed Data
OBX.5.4	Alternate Identifier			NEG		Changeable Data
OBX.5.5	Alternate Text			NEGATIVE		Changeable Data
OBX.5.6	Name of Alternate Coding System			L		Changeable Data
OBX.5.7	Coding System Version			201509USED		Changeable Data
OBX.5.9	Original Text			Negative (qualifier value)		Changeable Data
<b>OBX.7</b>	<b>Reference Range</b>			Negative		Changeable Data
<b>OBX.8</b>	<b>Abnormal Flags</b>			N		Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>			F		Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>					
OBX.14.1	Time			20150925		Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>					
OBX.19.1	Time			201509261400		Changeable Data
<b>OBX.23</b>	<b>Performing Organization Name</b>					
OBX.23.1	Organization Name			Century Hospital		Changeable Data
OBX.23.6	Assigning Authority					
OBX.23.6.1	Namespace ID			CLIA		Changeable Data
OBX.23.7	Identifier Type Code			XX		Changeable Data
OBX.23.10	Organization Identifier			24D9871327		Changeable Data
<b>OBX.24</b>	<b>Performing Organization Address</b>					
OBX.24.1	Street Address					
OBX.24.1.1	Street or Mailing Address			2070 Test Park		Changeable Data
OBX.24.3	City			Los Angeles		Changeable Data
OBX.24.4	State or Province			CA		Changeable Data
OBX.24.5	Zip or Postal Code			90067		Changeable Data
OBX.24.6	Country			USA		Changeable Data
OBX.24.7	Address Type			B		Changeable Data
OBX.24.9	County/Parish Code			06037		Changeable Data
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>					
OBX.25.2	Family Name					
OBX.25.2.1	Surname			Knowsalot		Changeable Data
OBX.25.3	Given Name			Phil		Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof			J.		Changeable Data
OBX.25.6	Prefix (e.g., DR)			Dr.		Changeable Data
<b>OBX.29</b>	<b>Observation Type</b>			RSLT		Test Case Fixed Data

#### OBX

Location	Data Element	Data	Categorization
<b>OBX.1</b>	<b>Set ID - OBX</b>	2	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	CWE	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		
OBX.3.1	Identifier	20575-7	Test Case Fixed Data
OBX.3.2	Text	Hepatitis A virus Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data

Location	Data Element	Data	Categorization
OBX.3.4	Alternate Identifier	HAVAB	Changeable Data
OBX.3.5	Alternate Text	Hepatitis A antibodies (anti-HAV)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
<b>OBX.5</b>	<b>Observation Value</b>		
OBX.5.1	Identifier	260385009	Test Case Fixed Data
OBX.5.2	Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	NEG	Changeable Data
OBX.5.5	Alternate Text	NEGATIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Negative (qualifier value)	Changeable Data
<b>OBX.7</b>	<b>Reference Range</b>	Negative	Changeable Data
<b>OBX.8</b>	<b>Abnormal Flags</b>	N	Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>	F	Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>		
OBX.14.1	Time	20150925	Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>		
OBX.19.1	Time	201509261400	Changeable Data
<b>OBX.23</b>	<b>Performing Organization Name</b>		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
<b>OBX.24</b>	<b>Performing Organization Address</b>		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>		
OBX.25.2	Family Name		
OBX.25.2.1	Surname	Knowsalot	Changeable Data
OBX.25.3	Given Name	Phil	Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof	J.	Changeable Data
OBX.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
<b>OBX.29</b>	<b>Observation Type</b>	RSLT	Test Case Fixed Data

#### OBX

Location	Data Element	Data	Categorization
<b>OBX.1</b>	<b>Set ID - OBX</b>	3	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	CWE	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		
OBX.3.1	Identifier	16933-4	Test Case Fixed Data
OBX.3.2	Text	Hepatitis B virus core Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HBVcAB	Changeable Data
OBX.3.5	Alternate Text	Hepatitis B core antibodies (anti-HBVc)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data

OBX.3.7	Coding System Version	2.52	Changeable Data
Location	Data Element	Data	Categorization
<b>OBX.5</b>	<b>Observation Value</b>		
OBX.5.1	Identifier	260385009	Test Case Fixed Data
OBX.5.2	Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	NEG	Changeable Data
OBX.5.5	Alternate Text	NEGATIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Negative (qualifier value)	Changeable Data
<b>OBX.7</b>	<b>Reference Range</b>	Negative	Changeable Data
<b>OBX.8</b>	<b>Abnormal Flags</b>	N	Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>	F	Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>		
OBX.14.1	Time	20150925	Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>		
OBX.19.1	Time	201509261400	Changeable Data
<b>OBX.23</b>	<b>Performing Organization Name</b>		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
<b>OBX.24</b>	<b>Performing Organization Address</b>		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>		
OBX.25.2	Family Name		
OBX.25.2.1	Surname	Knowsalot	Changeable Data
OBX.25.3	Given Name	Phil	Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof	J.	Changeable Data
OBX.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
<b>OBX.29</b>	<b>Observation Type</b>	RSLT	Test Case Fixed Data

#### OBX

Location	Data Element	Data	Categorization
<b>OBX.1</b>	<b>Set ID - OBX</b>	4	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	SN	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		
OBX.3.1	Identifier	22316-4	Test Case Fixed Data
OBX.3.2	Text	Hepatitis B virus core Ab [Units/volume] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HBcAbQ	Changeable Data
OBX.3.5	Alternate Text	Hepatitis B core antibodies (anti-HBVc) Quant	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
<b>OBX.5</b>	<b>Observation Value</b>		
OBX.5.2	Num1	0.40	Test Case Fixed Data

OBX Location	Units	Data Element	Data	Categorization
OBX.6.1	Identifier		[IU]/mL	Changeable Data
OBX.6.2	Text		international unit per milliliter	Changeable Data
OBX.6.3	Name of the Coding System		UCUM	Changeable Data
OBX.6.4	Alternate Identifier		IU/ml	Changeable Data
OBX.6.6	Name of Alternate Coding System		L	Changeable Data
OBX.6.7	Coding System Version		1.9	Changeable Data
OBX.7	Reference Range		<0.50 IU/mL	Changeable Data
OBX.8	Abnormal Flags		N	Test Case Fixed Data
OBX.11	Observation Result Status		F	Test Case Fixed Data
OBX.14	Date/Time of the Observation			
OBX.14.1	Time		20150925	Changeable Data
OBX.19	Date/Time of the Analysis			
OBX.19.1	Time		201509261400	Changeable Data
OBX.23	Performing Organization Name			
OBX.23.1	Organization Name		Century Hospital	Changeable Data
OBX.23.6	Assigning Authority			
OBX.23.6.1	Namespace ID		CLIA	Changeable Data
OBX.23.7	Identifier Type Code		XX	Changeable Data
OBX.23.10	Organization Identifier		24D9871327	Changeable Data
OBX.24	Performing Organization Address			
OBX.24.1	Street Address			
OBX.24.1.1	Street or Mailing Address		2070 Test Park	Changeable Data
OBX.24.3	City		Los Angeles	Changeable Data
OBX.24.4	State or Province		CA	Changeable Data
OBX.24.5	Zip or Postal Code		90067	Changeable Data
OBX.24.6	Country		USA	Changeable Data
OBX.24.7	Address Type		B	Changeable Data
OBX.24.9	County/Parish Code		06037	Changeable Data
OBX.25	Performing Organization Medical Director			
OBX.25.2	Family Name			
OBX.25.2.1	Surname		Knowsalot	Changeable Data
OBX.25.3	Given Name		Phil	Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof		J.	Changeable Data
OBX.25.6	Prefix (e.g., DR)		Dr.	Changeable Data
OBX.29	Observation Type		RSLT	Test Case Fixed Data

#### OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	5	IG Fixed Data
OBX.2	Value Type	CWE	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	22320-6	Test Case Fixed Data
OBX.3.2	Text	Hepatitis B virus e Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HBVeAB	Changeable Data
OBX.3.5	Alternate Text	Hepatitis B e antibodies (anti-HBVe)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.1	Identifier	260385009	Test Case Fixed Data
OBX.5.2	Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	NEG	Changeable Data
OBX.5.5	Alternate Text	NEGATIVE	Changeable Data



OBX.5.6 Location	Name of Alternate Coding System Data Element	L Data	Changeable Data Categorization
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Negative (qualifier value)	Changeable Data
OBX.7	Reference Range	Negative	Changeable Data
OBX.8	Abnormal Flags	N	Test Case Fixed Data
OBX.11	Observation Result Status	F	Test Case Fixed Data
OBX.14	Date/Time of the Observation		
OBX.14.1	Time	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data
OBX.23	Performing Organization Name		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
OBX.24	Performing Organization Address		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.2	Family Name		
OBX.25.2.1	Surname	Knowsalot	Changeable Data
OBX.25.3	Given Name	Phil	Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof	J.	Changeable Data
OBX.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
OBX.29	Observation Type	RSLT	Test Case Fixed Data

#### OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	6	IG Fixed Data
OBX.2	Value Type	CWE	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	5195-3	Test Case Fixed Data
OBX.3.2	Text	Hepatitis B virus surface Ag [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HBVsAG	Changeable Data
OBX.3.5	Alternate Text	Hepatitis B surface antigen (HBsAg)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.1	Identifier	260385009	Test Case Fixed Data
OBX.5.2	Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	NEG	Changeable Data
OBX.5.5	Alternate Text	NEGATIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Negative (qualifier value)	Changeable Data



OBX Location	Reference Range	Data Element	Negative	Data	Changeable Data	Categorization
OBX.8	Abnormal Flags		N			Test Case Fixed Data
OBX.11	Observation Result Status		F			Test Case Fixed Data
OBX.14	Date/Time of the Observation					
OBX.14.1	Time		20150925			Changeable Data
OBX.19	Date/Time of the Analysis					
OBX.19.1	Time		201509261400			Changeable Data
OBX.23	Performing Organization Name					
OBX.23.1	Organization Name		Century Hospital			Changeable Data
OBX.23.6	Assigning Authority					
OBX.23.6.1	Namespace ID		CLIA			Changeable Data
OBX.23.7	Identifier Type Code		XX			Changeable Data
OBX.23.10	Organization Identifier		24D9871327			Changeable Data
OBX.24	Performing Organization Address					
OBX.24.1	Street Address					
OBX.24.1.1	Street or Mailing Address		2070 Test Park			Changeable Data
OBX.24.3	City		Los Angeles			Changeable Data
OBX.24.4	State or Province		CA			Changeable Data
OBX.24.5	Zip or Postal Code		90067			Changeable Data
OBX.24.6	Country		USA			Changeable Data
OBX.24.7	Address Type		B			Changeable Data
OBX.24.9	County/Parish Code		06037			Changeable Data
OBX.25	Performing Organization Medical Director					
OBX.25.2	Family Name					
OBX.25.2.1	Surname		Knowsalot			Changeable Data
OBX.25.3	Given Name		Phil			Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof		J.			Changeable Data
OBX.25.6	Prefix (e.g., DR)		Dr.			Changeable Data
OBX.29	Observation Type		RSLT			Test Case Fixed Data

#### OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	7	IG Fixed Data
OBX.2	Value Type	CWE	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	22322-2	Test Case Fixed Data
OBX.3.2	Text	Hepatitis B virus surface Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HBVSAB	Changeable Data
OBX.3.5	Alternate Text	Hepatitis B surface antibody (anti-HBVs)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.1	Identifier	260385009	Test Case Fixed Data
OBX.5.2	Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	NEG	Changeable Data
OBX.5.5	Alternate Text	NEGATIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Negative (qualifier value)	Changeable Data
OBX.7	Reference Range	Negative	Changeable Data
OBX.8	Abnormal Flags	N	Test Case Fixed Data
OBX.11	Observation Result Status	F	Test Case Fixed Data

Location	Data Element	Data	Categorization
OBX.14.1	Time	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data
OBX.23	Performing Organization Name		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
OBX.24	Performing Organization Address		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.2	Family Name		
OBX.25.2.1	Surname	Knowsalot	Changeable Data
OBX.25.3	Given Name	Phil	Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof	J.	Changeable Data
OBX.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
OBX.29	Observation Type	RSLT	Test Case Fixed Data

#### OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	8	IG Fixed Data
OBX.2	Value Type	CWE	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	16128-1	Test Case Fixed Data
OBX.3.2	Text	Hepatitis C virus Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HCVAB	Changeable Data
OBX.3.5	Alternate Text	Hepatitis C antibody screen (anti-HCV)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.1	Identifier	10828004	Test Case Fixed Data
OBX.5.2	Text	Positive (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	POS	Changeable Data
OBX.5.5	Alternate Text	POSITIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Positive (qualifier value)	Changeable Data
OBX.7	Reference Range	Negative	Changeable Data
OBX.8	Abnormal Flags	A	Test Case Fixed Data
OBX.11	Observation Result Status	F	Test Case Fixed Data
OBX.14	Date/Time of the Observation		
OBX.14.1	Time	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data

OBX.23	Location	Performing Organization Name	Data Element	Data	Categorization
OBX.23.1		Organization Name		Century Hospital	Changeable Data
OBX.23.6		Assigning Authority			
OBX.23.6.1		Namespace ID		CLIA	Changeable Data
OBX.23.7		Identifier Type Code		XX	Changeable Data
OBX.23.10		Organization Identifier		24D9871327	Changeable Data
OBX.24		Performing Organization Address			
OBX.24.1		Street Address			
OBX.24.1.1		Street or Mailing Address		2070 Test Park	Changeable Data
OBX.24.3		City		Los Angeles	Changeable Data
OBX.24.4		State or Province		CA	Changeable Data
OBX.24.5		Zip or Postal Code		90067	Changeable Data
OBX.24.6		Country		USA	Changeable Data
OBX.24.7		Address Type		B	Changeable Data
OBX.24.9		County/Parish Code		06037	Changeable Data
OBX.25		Performing Organization Medical Director			
OBX.25.2		Family Name			
OBX.25.2.1		Surname		Knowsalot	Changeable Data
OBX.25.3		Given Name		Phil	Changeable Data
OBX.25.4		Second and Further Given Names or Initials Thereof		J.	Changeable Data
OBX.25.6		Prefix (e.g., DR)		Dr.	Changeable Data
OBX.29		Observation Type		RSLT	Test Case Fixed Data

#### OBX

	Location	Data Element	Data	Categorization
OBX.1		Set ID - OBX	9	IG Fixed Data
OBX.2		Value Type	SN	Test Case Fixed Data
OBX.3		Observation Identifier		
OBX.3.1		Identifier	48159-8	Test Case Fixed Data
OBX.3.2		Text	Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay	Test Case Fixed Data
OBX.3.3		Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4		Alternate Identifier	HCVSCO	Changeable Data
OBX.3.5		Alternate Text	Hepatitis C antibodies Signal to Cut-off Ratio	Changeable Data
OBX.3.6		Name of Alternate Coding System	L	Changeable Data
OBX.3.7		Coding System Version	2.52	Changeable Data
OBX.5		Observation Value		
OBX.5.2		Num1	10.8	Test Case Fixed Data
OBX.6		Units		
OBX.6.1		Identifier	{s_co_ratio}	Changeable Data
OBX.6.2		Text	Signal to cutoff ratio	Changeable Data
OBX.6.3		Name of the Coding System	UCUM	Changeable Data
OBX.6.4		Alternate Identifier	s/co	Changeable Data
OBX.6.6		Name of Alternate Coding System	L	Changeable Data
OBX.6.7		Coding System Version	1.9	Changeable Data
OBX.7		Reference Range	0.0-0.9 s/co	Changeable Data
OBX.8		Abnormal Flags	H	Test Case Fixed Data
OBX.11		Observation Result Status	F	Test Case Fixed Data
OBX.14		Date/Time of the Observation		
OBX.14.1		Time	20150925	Changeable Data
OBX.19		Date/Time of the Analysis		
OBX.19.1		Time	201509261400	Changeable Data
OBX.23		Performing Organization Name		
OBX.23.1		Organization Name	Century Hospital	Changeable Data
OBX.23.6		Assigning Authority		

Location	Data Element	Data	Categorization
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
<b>OBX.24</b>	<b>Performing Organization Address</b>		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>		
OBX.25.2	Family Name		
OBX.25.2.1	Surname	Knowsalot	Changeable Data
OBX.25.3	Given Name	Phil	Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof	J.	Changeable Data
OBX.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
<b>OBX.29</b>	<b>Observation Type</b>	RSLT	Test Case Fixed Data

#### NTE

Location	Data Element	Data	Categorization
NTE.1	Set ID - NTE	1	IG Fixed Data
NTE.3	Comment	Negative: < 0.8; Indeterminate 0.8 - 0.9; Positive: > 0.9	Changeable Data

#### NTE

Location	Data Element	Data	Categorization
NTE.1	Set ID - NTE	2	IG Fixed Data
NTE.3	Comment	In order to reduce the incidence of a false positive result, the CDC recommends that all s/co ratios between 1.0 and 10.9 be confirmed with additional Verification or PCR testing.	Changeable Data

#### SPM

Location	Data Element	Data	Categorization
SPM.1	Set ID - SPM	1	IG Fixed Data
<b>SPM.2</b>	<b>Specimen ID</b>		
SPM.2.1			
SPM.2.1.1		S-2015-666666	Configurable Data
SPM.2.1.2		GoodHealthC_EHR	Configurable Data
SPM.2.2			
SPM.2.2.1		S-991133	Changeable Data
SPM.2.2.2		NIST Lab Filler	Changeable Data
<b>SPM.4</b>	<b>Specimen Type</b>		
SPM.4.1	Identifier	119364003	Changeable Data
SPM.4.2	Text	Serum specimen (specimen)	Changeable Data
SPM.4.3	Name of the Coding System	SCT	Changeable Data
SPM.4.4	Alternate Identifier	SER	Changeable Data
SPM.4.5	Alternate Text	Serum	Changeable Data
SPM.4.6	Name of Alternate Coding System	L	Changeable Data
SPM.4.7	Coding System Version	201509USED	Changeable Data
<b>SPM.17</b>	<b>Specimen Collection Date/Time</b>		
SPM.17.1	Range Start Date/Time		
SPM.17.1.1	Time	20150925	Changeable Data

ORC

Location	Data Element	Data	Categorization
<b>ORC.1</b>	<b>Order Control</b>	RE	Test Case Fixed Data
<b>ORC.3</b>	<b>Filler Order Number</b>		
ORC.3.1	Entity Identifier	R-511	Changeable Data
ORC.3.2	Namespace ID	NIST Lab Filler	Changeable Data
<b>ORC.12</b>	<b>Ordering Provider</b>		
ORC.12.1	ID Number	5742200012	Changeable Data
ORC.12.2	Family Name		
ORC.12.2.1	Surname	Radon	Changeable Data
ORC.12.3	Given Name	Nicholas	Changeable Data
ORC.12.6	Prefix (e.g., DR)	DR	Changeable Data
ORC.12.9	Assigning Authority		
ORC.12.9.1	Namespace ID	NPI	Changeable Data
ORC.12.10	Name Type Code	L	Changeable Data
ORC.12.13	Identifier Type Code	NPI	Changeable Data
<b>ORC.31</b>	<b>Parent Universal Service Identifier</b>		
ORC.31.1	Identifier	HepABC Panel	Changeable Data
ORC.31.2	Text	Hepatitis A B C Panel	Changeable Data
ORC.31.3	Name of the Coding System	L	Changeable Data

OBR

Location	Data Element	Data	Categorization
<b>OBR.1</b>	<b>Set ID - OBR</b>	2	IG Fixed Data
<b>OBR.3</b>	<b>Filler Order Number</b>		
OBR.3.1	Entity Identifier	R-511	Changeable Data
OBR.3.2	Namespace ID	NIST Lab Filler	Changeable Data
<b>OBR.4</b>	<b>Universal Service Identifier</b>		
OBR.4.1	Identifier	11011-4	Test Case Fixed Data
OBR.4.2	Text	Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method	Test Case Fixed Data
OBR.4.3	Name of Coding System	LN	Test Case Fixed Data
OBR.4.4	Alternate Identifier	HCVRNA	Changeable Data
OBR.4.5	Alternate Text	Hepatitis C RNA PCR	Changeable Data
OBR.4.6	Name of Alternate Coding System	L	Changeable Data
OBR.4.7	Coding System Version	2.52	Changeable Data
<b>OBR.7</b>	<b>Observation Date/Time</b>		
OBR.7.1	Time	20150925	Changeable Data
<b>OBR.11</b>	<b>Specimen Action Code</b>	G	Test Case Fixed Data
<b>OBR.16</b>	<b>Ordering Provider</b>		
OBR.16.1	ID Number	5742200012	Changeable Data
OBR.16.2	Family Name		
OBR.16.2.1	Surname	Radon	Changeable Data
OBR.16.3	Given Name	Nicholas	Changeable Data
OBR.16.6	Prefix (e.g., DR)	DR	Changeable Data
OBR.16.9	Assigning Authority		
OBR.16.9.1	Namespace ID	NPI	Changeable Data
OBR.16.10	Name Type Code	L	Changeable Data
OBR.16.13	Identifier Type Code	NPI	Changeable Data
<b>OBR.22</b>	<b>Results Rpt/Status Chng - Date/Time</b>		
OBR.22.1	Time	20150929102500	Changeable Data
<b>OBR.25</b>	<b>Result Status</b>	F	Test Case Fixed Data
<b>OBR.26</b>	<b>Parent Result</b>		
OBR.26.1	Parent Observation Identifier		
OBR.26.1.1	Identifier	48159-8	Test Case Fixed Data
OBR.26.1.2	Text	Hepatitis C virus Ab Signal/Cutoff in Serum	Test Case Fixed Data

Location	Data Element	Data	Categorization
OBR.26.1.3	Name of the Coding System	LN	Test Case Fixed Data
OBR.26.1.4	Alternate Identifier	HCVSCO	Changeable Data
OBR.26.1.5	Alternate Text	Hepatitis C antibodies Signal to Cut-off Ratio	Changeable Data
OBR.26.1.6	Name of Alternate Coding System	L	Changeable Data
OBR.26.1.7	Coding System Version	2.52	Changeable Data
<b>OBR.29</b>	<b>Parent</b>		
OBR.29.1	Placer Assigned Identifier		
OBR.29.1.1	Entity Identifier	ORD448811	Changeable Data
OBR.29.1.2	Namespace ID	NIST EHR	Changeable Data
OBR.29.2	Filler Assigned Identifier		
OBR.29.2.1	Entity Identifier	R-511	Changeable Data
OBR.29.2.2	Namespace ID	NIST Lab Filler	Changeable Data
<b>OBR.50</b>	<b>Parent Universal Service Identifier</b>		
OBR.50.1	Identifier	HepABC Panel	Changeable Data
OBR.50.2	Text	Hepatitis A B C Panel	Changeable Data
OBR.50.3	Name of the Coding System	L	Changeable Data

#### OBX

Location	Data Element	Data	Categorization
<b>OBX.1</b>	<b>Set ID - OBX</b>	1	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	SN	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		
OBX.3.1	Identifier	11011-4	Test Case Fixed Data
OBX.3.2	Text	Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HCVRNA	Changeable Data
OBX.3.5	Alternate Text	Hepatitis C RNA PCR	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
<b>OBX.5</b>	<b>Observation Value</b>		
OBX.5.2	Num1	7611200	Test Case Fixed Data
<b>OBX.6</b>	<b>Units</b>		
OBX.6.1	Identifier	[IU]/mL	Changeable Data
OBX.6.2	Text	international unit per milliliter	Changeable Data
OBX.6.3	Name of the Coding System	UCUM	Changeable Data
OBX.6.4	Alternate Identifier	IU/ml	Changeable Data
OBX.6.6	Name of Alternate Coding System	L	Changeable Data
OBX.6.7	Coding System Version	1.9	Changeable Data
<b>OBX.7</b>	<b>Reference Range</b>	<43 IU/mL	Changeable Data
<b>OBX.8</b>	<b>Abnormal Flags</b>	H	Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>	F	Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>		
OBX.14.1	Time	20150925	Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>		
OBX.19.1	Time	20120629092700	Changeable Data
<b>OBX.23</b>	<b>Performing Organization Name</b>		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
<b>OBX.24</b>	<b>Performing Organization Address</b>		
OBX.24.1	Street Address		

OBX.24.1.1 Location	Street or Mailing Address Data Element	2070 Test Park Data	Changeable Data Categorization
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>		
OBX.25.2	Family Name		
OBX.25.2.1	Surname	Knowsalot	Changeable Data
OBX.25.3	Given Name	Phil	Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof	J.	Changeable Data
OBX.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
<b>OBX.29</b>	<b>Observation Type</b>	RSLT	Test Case Fixed Data

#### SPM

Location	Data Element	Data	Categorization
<b>SPM.1</b>	<b>Set ID - SPM</b>	1	IG Fixed Data
<b>SPM.2</b>	<b>Specimen ID</b>		
SPM.2.1			
SPM.2.1.1		S-2015-666666	Configurable Data
SPM.2.1.2		GoodHealthC_EHR	Configurable Data
SPM.2.2			
SPM.2.2.1		S-991133	Changeable Data
SPM.2.2.2		NIST Lab Filler	Changeable Data
<b>SPM.4</b>	<b>Specimen Type</b>		
SPM.4.1	Identifier	119364003	Changeable Data
SPM.4.2	Text	Serum specimen (specimen)	Changeable Data
SPM.4.3	Name of the Coding System	SCT	Changeable Data
SPM.4.4	Alternate Identifier	SER	Changeable Data
SPM.4.5	Alternate Text	Serum	Changeable Data
SPM.4.6	Name of Alternate Coding System	L	Changeable Data
SPM.4.7	Coding System Version	201509USED	Changeable Data
<b>SPM.17</b>	<b>Specimen Collection Date/Time</b>		
SPM.17.1	Range Start Date/Time		
SPM.17.1.1	Time	20150925	Changeable Data



**Patient Information**

Element	Data
Name	Peggy Smirnoff
Date/Time of Birth	04/01/1975
Administrative Sex	Female
Race	White
Alt Race	

**Order Observation[\*]****Order Observation****Ordering Provider**

Element	Data
Name	DR Nicholas Radon
Identifier number	5742200012

**Observation Details**

Element	Data
Observation General Information	
Placer Order Number	ORD448811
Filler Order Number	R-511
Placer Group Number	
Parent Universal Service Identifier	
Identifier	
Text	
Alt Identifier	
Alt Text	
Original Text	
Observation Details	
Universal Service Identifier	Hepatitis A B C Panel
Observation Date/Time	09/25/2015
Observation end Date/Time	
Specimen Action Code	
Relevant Clinical Information	
Relevant Clinical Information Original Text	
Observation Result Information	
Result Status	F
Results Report/Status Change - Date/Time	09/26/2015 2:05 PM
Results Handling	
Standard	
Observation Notes	

**Timing/Quantity Information**

Element	Data
Priority	
Start Date/time	

End Date/time	
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### Results Performing Laboratory

Element	Data
Laboratory Name	Century Hospital
Organization identifier	24D9871327
Address	2070 Test Park Los Angeles CA 90067 USA
Director Name	Dr. Phil J. Knowsalot
Director identifier	

### Specimen Information

Element	Data
Specimen Type	Serum specimen (specimen)
Alt Specimen Type	Serum
Specimen Original Text	
Start date/time	20150925

### Lab results

Element		Data						
Test performed		Hepatitis A B C Panel						
Test Report date		09/26/2015 14:05						
Result Observation Name	Result	UOM	Range	Abnormal Flag	Status	Date/Time of Observation	Date/Time of Analysis	Notes
Hepatitis A virus IgM Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis A virus Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis B virus core Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis B virus core Ab [Units/volume] in Serum	0.40	international unit per milliliter	<0.50 IU/mL	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis B virus e Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis B virus surface Ag [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	

Hepatitis B virus surface Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis C virus Ab [Presence] in Serum	Positive (qualifier value)		Negative	A	F	09/25/2015	09/26/2015 14:00	
Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay	10.8	Signal to cutoff ratio	0.0-0.9 s/co	H	F	09/25/2015	09/26/2015 14:00	Negative: < 0.8; Indeterminate 0.8 - 0.9; Positive: > 0.9 In order to reduce the incidence of a false positive result, the CDC recommends that all s/co ratios between 1.0 and 10.9 be confirmed with additional Verification or PCR testing.

#### Order Observation

#### Ordering Provider

Element	Data
Name	DR Nicholas Radon
Identifier number	5742200012

#### Observation Details

Element	Data
Observation General Information	
Placer Order Number	
Filler Order Number	R-511
Placer Group Number	
Parent Universal Service Identifier	
Identifier	HepABC Panel
Text	Hepatitis A B C Panel
Alt Identifier	
Alt Text	
Original Text	
Observation Details	
Universal Service Identifier	Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method
Observation Date/Time	09/25/2015

Observation end Date/Time	
Specimen Action Code	G
Relevant Clinical Information	
Relevant Clinical Information Original Text	
Observation Result Information	
Result Status	F
Results Report/Status Change - Date/Time	09/29/2015 10:25 AM
Results Handling	
Standard	
Observation Notes	

#### Timing/Quantity Information

Element	Data
Priority	
Start Date/time	
End Date/time	

#### Results Performing Laboratory

Element	Data
Laboratory Name	Century Hospital
Organization identifier	24D9871327
Address	2070 Test Park Los Angeles CA 90067 USA
Director Name	Dr. Phil J. Knowsalot
Director identifier	

#### Specimen Information

Element	Data
Specimen Type	Serum specimen (specimen)
Alt Specimen Type	Serum
Specimen Original Text	
Start date/time	20150925

#### Lab results

Element				Data				
Test performed				Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method				
Test Report date				09/29/2015 10:25				
Result Observation Name	Result	UOM	Range	Abnormal Flag	Status	Date/Time of Observation	Date/Time of Analysis	Notes
Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method	7611200	international unit per milliliter	<43 IU/mL	H	F	09/25/2015	06/29/2012 09:27	



HL7 v2.5 ORU^R01^ORU_R01 Message: Incorporation of Laboratory Results		
Test Case ID	LRI_5.1_2.1-NG_FRN	
Juror ID		
Juror Name		
HIT System Tested		
Inspection Date/Time		
Inspection Settlement (Pass/Fail)	Pass	Fail
	<input type="checkbox"/>	<input type="checkbox"/>
Reason Failed		
Juror Comments		

This Test Case-specific Juror Document provides a checklist for the Tester to use during testing for assessing the Health IT Module's ability to display and incorporate required data elements from the information received in the LRI message. Additional data from the message or from the Health IT Module are permitted to be displayed and incorporated by the Module. Grayed-out fields in the Juror Document indicate where no data for that data element were included in the LRI message for the given Test Case.

The format of the Display Verification section of this Juror Document is for ease-of-use by the Tester and does not indicate how the Health IT Module display must be designed.

## Display Verification

### Legend for Display Requirement

Data in **bold red** text: HIT Module must display exact version of stored data

Data in **bold black italics** text: HIT Module must display exact version of data received in the LRI message

Data in regular text: HIT Module may display equivalent version of stored data

Patient Information - Display Verification					
Patient Identifier	Patient Name	DOB	Sex	Race	Tester Comment
<i>PATID1239</i>	<i>Peggy Smirnoff</i>	04/01/1975	F	<b>White</b>	
When a given patient has more than one Patient ID Number, the HIT module may display the ID Number that is most appropriate for the context (e.g., inpatient ID Number versus ambulatory ID Number.)					

Lab Results - Display Verification									
Test Performed:	<i>Hepatitis A B C Panel</i>								
Test Report Date:	09/26/2015 14:05:00								
Result Report Status	F								
Result Observation Name	Result Value	UOM	Reference Range	Abnormal Flag	Status	Date/Time of Observation	End Date/Time of Observation	Date/Time of Analysis	Tester Comment
<i>Hepatitis A IgM antibodies (IgM anti-HAV)</i>	Negative (qualifier value)		Negative	N	F	09/25/2015 ::		09/26/2015 14:00:	
<i>Hepatitis A antibodies (anti-HAV)</i>	Negative (qualifier value)		Negative	N	F	09/25/2015 ::		09/26/2015 14:00:	
<i>Hepatitis B core antibodies (anti-HBc)</i>	Negative (qualifier value)		Negative	N	F	09/25/2015 ::		09/26/2015 14:00:	
<i>Hepatitis B core antibodies (anti-HBc) Quant</i>	0.40	international unit per milliliter	<0.50 IU/mL	N	F	09/25/2015 ::		09/26/2015 14:00:	
<i>Hepatitis B e antibodies (anti-HBe)</i>	Negative (qualifier value)		Negative	N	F	09/25/2015 ::		09/26/2015 14:00:	
<i>Hepatitis B surface antigen (HBsAg)</i>	Negative (qualifier value)		Negative	N	F	09/25/2015 ::		09/26/2015 14:00:	
<i>Hepatitis B surface antibody (anti-HBs)</i>	Negative (qualifier value)		Negative	N	F	09/25/2015 ::		09/26/2015 14:00:	
<i>Hepatitis C antibody screen (anti-HCV)</i>	Positive (qualifier value)		Negative	A	F	09/25/2015 ::		09/26/2015 14:00:	
<i>Hepatitis C antibodies Signal to Cut-off Ratio</i>	10.8	Signal to cutoff ratio	0.0-0.9 s/co	H	F	09/25/2015 ::		09/26/2015 14:00:	
Note	Negative: < 0.8; Indeterminate 0.8 - 0.9; Positive: > 0.9								
Note	In order to reduce the incidence of a false positive result, the CDC recommends that all s/co ratios between 1.0 and 10.9 be confirmed with additional Verification or PCR testing.								

Lab Results - Display Verification									
Test Performed:	<i>Hepatitis C RNA PCR</i>								
Test Report Date:	09/29/2015 10:25:00								
Result Report Status	F								
Result Observation Name	Result Value	UOM	Reference Range	Abnormal Flag	Status	Date/Time of Observation	End Date/Time of Observation	Date/Time of Analysis	Tester Comment
<i>Hepatitis C RNA PCR</i>	7611200	international unit per milliliter	<43 IU/mL	H	F	09/25/2015 ::		06/29/2012 09:27:00	



Performing Organization Information - Display Verification		
Data Element Name	Data	Tester Comment
Organization Name	Century Hospital	
Organization Address		
Street address	2070 Test Park	
Other designation		
City	Los Angeles	
State	CA	
Zip code	90067	

Performing Organization Medical Director Information - Display Verification		
Data Element Name	Data	Tester Comment
Medical Director Name		
Family Name		
Surname	Knowsalot	
Given Name	Phil	
Second and Further Given Names or Initials Thereof	J.	
Suffix (e.g., JR or III)		
Prefix (e.g., DR)	Dr.	

Specimen Information - Display Verification		
Data Element Name	Data	Tester Comment
Specimen Type(Specimen Source)	Serum	
Specimen Collection Date/Time - Start	09/25/2015 ::	
Specimen Collection Date/Time - End		
Specimen Reject Reason		
Specimen Condition		

Order Information - Display Verification		
Data Element Name	Data	Tester Comment
Relevant Clinical Information		
Placer Order Number Entity ID	ORD448811	
Ordering Provider		
Family Name		
Surname	Radon	
Given Name	Nicholas	
Second and Further Given Names or Initials Thereof		
Suffix (e.g., JR or III)		
Prefix (e.g., DR)	DR	

**Incorporate Verification**

## Legend for Store Requirement

S-EX : Store exact

S-TR-R : Translate and store translation (exact value can be re-created from translation any time)

S-EX-A : Store exact by association

S-RC : Process and re-create

S-EQ : Store equivalent

(See "Instructions to Testers for Verification of Store Requirements" at the end of this Juror Document for additional details.)

Patient Information Details- Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>PID-3</b>	<b>Patient Identifier List</b>			
PID-3.1	ID Number	S-EX-A	PATID1239	
<b>PID-3.4</b>	<b>Assigning Property</b>			
PID-3.4.1	Namespace ID	S-EX-A	NIST MPI	
PID-3.4.2	Universal ID	S-EX-A		
PID-3.4.3	Universal ID Type	S-EX-A		
PID-3.5	Identifier Type Code	S-RC	MR	
<b>PID-5</b>	<b>Patient Name</b>			
<b>PID-5.1</b>	<b>Family Name</b>			
PID-5.1.1	Surname	S-EX-A	Smirnoff	
PID-5.2	Given Name	S-EX-A	Peggy	
PID-5.3	Second and Further Given Names or Initials Thereof	S-EX-A		
PID-5.4	Suffix (e.g., JR or III)	S-EX-A		
PID-5.7	Name Type Code	S-RC	L	
<b>PID-7</b>	<b>Date/Time of Birth</b>			
PID-7.1	Time	S-EQ	04/01/1975	
PID-8	Administrative Sex	S-TR-R	F	
<b>PID-10</b>	<b>Race</b>			
PID-10.1	Identifier	S-RC	2106-3	
PID-10.2	Text	S-RC	White	
PID-10.3	Name of Coding System	S-RC	HL70005	

Order Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>ORC-2/OBR-2</b>	<b>Placer Order Number</b>			
ORC-2.1/OBR-2.1	Entity Identifier	S-EX-A	ORD448811	
ORC-2.2/OBR-2.2	Namespace ID	S-EX-A	NIST EHR	
ORC-2.3/OBR-2.3	Universal ID	S-EX-A		
ORC-2.4/OBR-2.4	Universal ID Type	S-EX-A		
<b>ORC-3/OBR-3</b>	<b>Filler Order Number</b>			
ORC-3.1/OBR-3.1	Entity Identifier	S-EX	R-511	
ORC-3.2/OBR-3.2	Namespace ID	S-EX-A	NIST Lab Filler	
ORC-3.3/OBR-3.3	Universal ID	S-EX-A		
ORC-3.4/OBR-3.4	Universal ID Type	S-EX-A		
<b>ORC-12/OBR-16</b>	<b>Ordering Provider</b>			
ORC-12.1/OBR-16.1	ID Number	S-RC	5742200012	
<b>ORC-12.2/OBR-16.2</b>	<b>Family Name</b>			
ORC-12.2.1/OBR-16.2.1	Surname	S-RC	Radon	
ORC-12.3/OBR-16.3	Given Name	S-RC	Nicholas	
ORC-12.4/OBR-16.4	Second and Further Given Names or Initials Thereof	S-RC		
ORC-12.5/OBR-16.5	Suffix (e.g., JR or III)	S-RC		
ORC-12.6/OBR-16.6	Prefix (e.g., DR)	S-RC	DR	
<b>ORC-12.9/OBR-16.9</b>	<b>Assigning Authority</b>			
ORC-12.9.1/OBR-16.9.1	Namespace ID	S-EX-A	NPI	
ORC-12.9.2/OBR-16.9.2	Universal ID	S-EX-A		
ORC-12.9.3/OBR-16.9.3	Universal ID Type	S-EX-A		
ORC-12.10/OBR-16.10	Name Type Code	S-RC	L	
ORC-12.13/OBR-16.13	Identifier Type Code	S-RC	NPI	

Performing Organization Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-23</b>	<b>Performing Organization Name</b>			
OBX-23.1	Organization Name (Note 1)	S-TR-R	Century Hospital	
<b>OBX-23.6</b>	<b>Assigning Authority (Note 2)</b>			
OBX-23.6.1	Namespace ID	S-EX-A	CLIA	
OBX-23.6.2	Universal ID	S-EX-A		
OBX-23.6.3	Universal ID Type	S-EX-A		
OBX-23.7	Identifier Type Code	S-RC	XX	
OBX-23.10	Organization Identifier	S-TR-R	24D9871327	
<b>OBX-24</b>	<b>Performing Organization Address</b>			
<b>OBX-24.1</b>	<b>Street Address</b>			
OBX-24.1.1	Street or Mailing Address	S-EX-A	2070 Test Park	
OBX-24.2	Other Designation	S-EX-A		
OBX-24.3	City	S-EX-A	Los Angeles	
OBX-24.4	State or Province	S-EX-A	CA	
OBX-24.5	Zip or Postal Code	S-EX-A	90067	
OBX-24.6	Country	S-TR-R	USA	
<b>OBX-25</b>	<b>Performing Organization Medical Director</b>			
OBX-25.1	ID Number	S-RC		
<b>OBX-25.2</b>	<b>Family Name</b>			
OBX-25.2.1	Surname	S-TR-R	Knowsalot	
OBX-25.3	Given Name	S-TR-R	Phil	
OBX-25.4	Second and Further Given Names or Initials Thereof	S-TR-R	J.	
OBX-25.5	Suffix (e.g., JR or III)	S-TR-R		
OBX-25.6	Prefix (e.g., DR)	S-TR-R		
<b>OBX-25.9</b>	<b>Assigning Authority (Note 2)</b>			
OBX-25.9.1	Namespace ID	S-EX-A		
OBX-25.9.2	Universal ID	S-EX-A		
OBX-25.9.3	Universal ID Type	S-EX-A		
OBX-25.10	Name Type Code	S-RC		
OBX-25.13	Identifier Type Code	S-RC		
<b>Note 1</b> - The HIT Module must store the Organization Name or be able to recreate it. If the HIT Module is able to demonstrate Organization Name: ID is always 1:1, then the HIT Module is permitted to store and recreate (S-TR-R).				
<b>Note 2</b> - Determine requirement for support of 2nd component or 3rd and 4th component based on the EI or HD Profile				

Order Information (cont'd) Parent Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBR-4</b>	<b>Universal Service Identifier (Note 1)</b>			
OBR-4.1	Identifier	S-TR-R	HepABC Panel	
OBR-4.2	Text	S-EX-A	Hepatitis A B C Panel	
OBR-4.3	Name of the Coding System	S-RC	L	
OBR-4.4	Alternate Identifier	S-TR-R		
OBR-4.5	Alternate Text	S-EX-A		
OBR-4.6	Name of Alternate Coding System	S-RC		
OBR-4.9	Original Text	S-EX		
<b>OBR-7/SPM-17.1</b>	<b>Observation Date/Time</b>			
OBR-7.1/SPM-17.1.1	Time	S-EQ	09/25/2015 ::	
<b>OBR-8/SPM-17.2</b>	<b>Observation End Date/Time</b>			
OBR-8.1/SPM-17.2.1	Time	S-EQ		
<b>OBR-13</b>	<b>Relevant Clinical Information</b>			
OBR-13.1	Identifier	S-TR-R		
OBR-13.2	Text	S-EX-A		
OBR-13.3	Name of the Coding System	S-RC		
OBR-13.9	Original Text	S-EX		
<b>OBR-22</b>	<b>Results Rpt/Status Chng - Date/Time</b>			
OBR-22.1	Time	S-EQ	09/26/2015 14:05:00	
OBR-25	Result Status	S-TR-R	F	
<b>Note 1</b> -Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, MUST store the exact data received.				

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	22314-9	
OBX-3.2	Text	S-EX-A	Hepatitis A virus IgM Ab [Presence] in Serum	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HAVM	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis A IgM antibodies (IgM anti-HAV)	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Identifier	S-TR-R	260385009	
OBX-5.2	Text	S-EX-A	Negative (qualifier value)	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R	NEG	
OBX-5.5	Alternate Text	S-EX-A	NEGATIVE	
OBX-5.6	Name of Alternate Coding System	S-RC	L	
OBX-5.9	Original Text	S-EX	Negative (qualifier value)	
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
OBX-6.4	Alternate Identifier	S-TR-R		
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC		
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	Negative	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	N	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	09/26/2015 14:00:	
<b>Note 1</b> - Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, MUST store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	20575-7	
OBX-3.2	Text	S-EX-A	Hepatitis A virus Ab [Presence] in Serum	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HAVAB	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis A antibodies (anti-HAV)	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Identifier	S-TR-R	260385009	
OBX-5.2	Text	S-EX-A	Negative (qualifier value)	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R	NEG	
OBX-5.5	Alternate Text	S-EX-A	NEGATIVE	
OBX-5.6	Name of Alternate Coding System	S-RC	L	
OBX-5.9	Original Text	S-EX	Negative (qualifier value)	
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
OBX-6.4	Alternate Identifier	S-TR-R		
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC		
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	Negative	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	N	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	09/26/2015 14:00:	
<b>Note 1</b> - Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, <b>MUST</b> store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				



Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	16933-4	
OBX-3.2	Text	S-EX-A	Hepatitis B virus core Ab [Presence] in Serum	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HBVcAB	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis B core antibodies (anti-HBVc)	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Identifier	S-TR-R	260385009	
OBX-5.2	Text	S-EX-A	Negative (qualifier value)	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R	NEG	
OBX-5.5	Alternate Text	S-EX-A	NEGATIVE	
OBX-5.6	Name of Alternate Coding System	S-RC	L	
OBX-5.9	Original Text	S-EX	Negative (qualifier value)	
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
OBX-6.4	Alternate Identifier	S-TR-R		
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC		
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	Negative	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	N	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	09/26/2015 14:00:	
<b>Note 1</b> - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text field is populated, MUST store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	22316-4	
OBX-3.2	Text	S-EX-A	Hepatitis B virus core Ab [Units/volume] in Serum	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HBc AbQ	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis B core antibodies (anti-HBVC) Quant	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Comparator	S-EX		
OBX-5.2	Num1	S-EQ	0.40	
OBX-5.3	Separator/Suffix	S-EX		
OBX-5.4	Num2	S-EQ		
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R	[IU]/mL	
OBX-6.2	Text	S-TR-R	international unit per milliliter	
OBX-6.3	Name of the Coding System	S-RC	UCUM	
OBX-6.4	Alternate Identifier	S-TR-R	IU/ml	
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC	L	
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	<0.50 IU/mL	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	N	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	09/26/2015 14:00:	
<b>Note 1</b> - Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, MUST store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	22320-6	
OBX-3.2	Text	S-EX-A	Hepatitis B virus e Ab [Presence] in Serum	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HBVeAB	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis B e antibodies (anti-HBVe)	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Identifier	S-TR-R	260385009	
OBX-5.2	Text	S-EX-A	Negative (qualifier value)	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R	NEG	
OBX-5.5	Alternate Text	S-EX-A	NEGATIVE	
OBX-5.6	Name of Alternate Coding System	S-RC	L	
OBX-5.9	Original Text	S-EX	Negative (qualifier value)	
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
OBX-6.4	Alternate Identifier	S-TR-R		
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC		
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	Negative	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	N	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	09/26/2015 14:00:	
<b>Note 1</b> - Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, <b>MUST</b> store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	5195-3	
OBX-3.2	Text	S-EX-A	Hepatitis B virus surface Ag [Presence] in Serum	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HBVsAG	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis B surface antigen (HBsAg)	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Identifier	S-TR-R	260385009	
OBX-5.2	Text	S-EX-A	Negative (qualifier value)	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R	NEG	
OBX-5.5	Alternate Text	S-EX-A	NEGATIVE	
OBX-5.6	Name of Alternate Coding System	S-RC	L	
OBX-5.9	Original Text	S-EX	Negative (qualifier value)	
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
OBX-6.4	Alternate Identifier	S-TR-R		
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC		
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	Negative	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	N	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	09/26/2015 14:00:	
<b>Note 1</b> - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text field is populated, MUST store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	22322-2	
OBX-3.2	Text	S-EX-A	Hepatitis B virus surface Ab [Presence] in Serum	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HBVSAB	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis B surface antibody (anti-HBVs)	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Identifier	S-TR-R	260385009	
OBX-5.2	Text	S-EX-A	Negative (qualifier value)	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R	NEG	
OBX-5.5	Alternate Text	S-EX-A	NEGATIVE	
OBX-5.6	Name of Alternate Coding System	S-RC	L	
OBX-5.9	Original Text	S-EX	Negative (qualifier value)	
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
OBX-6.4	Alternate Identifier	S-TR-R		
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC		
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	Negative	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	N	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	09/26/2015 14:00:	
<b>Note 1</b> - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text field is populated, MUST store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	16128-1	
OBX-3.2	Text	S-EX-A	Hepatitis C virus Ab [Presence] in Serum	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HCVAB	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis C antibody screen (anti-HCV)	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Identifier	S-TR-R	10828004	
OBX-5.2	Text	S-EX-A	Positive (qualifier value)	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R	POS	
OBX-5.5	Alternate Text	S-EX-A	POSITIVE	
OBX-5.6	Name of Alternate Coding System	S-RC	L	
OBX-5.9	Original Text	S-EX	Positive (qualifier value)	
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
OBX-6.4	Alternate Identifier	S-TR-R		
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC		
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	Negative	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	A	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	09/26/2015 14:00:	
<b>Note 1</b> - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text field is populated, MUST store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				

## PARENT INFORMATION

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	48159-8	
OBX-3.2	Text	S-EX-A	Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HCVSCO	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis C antibodies Signal to Cut-off Ratio	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Comparator	S-EX		
OBX-5.2	Num1	S-EQ	10.8	
OBX-5.3	Separator/Suffix	S-EX		
OBX-5.4	Num2	S-EQ		
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R	{s_co_ratio}	
OBX-6.2	Text	S-TR-R	Signal to cutoff ratio	
OBX-6.3	Name of the Coding System	S-RC	UCUM	
OBX-6.4	Alternate Identifier	S-TR-R	s/co	
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC	L	
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	0.0-0.9 s/co	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	H	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	09/26/2015 14:00:	
<b>Note 1</b> - Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, MUST store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				



Note - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
NTE-3	Note	S-EX	Negative: < 0.8; Indeterminate 0.8 - 0.9; Positive: > 0.9	
NTE-3	Note	S-EX	In order to reduce the incidence of a false positive result, the CDC recommends that all s/co ratios between 1.0 and 10.9 be confirmed with additional Verification or PCR testing.	

## CHILD INFORMATION

Order Information (cont'd) Child Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBR-4</b>	<b>Universal Service Identifier (Note 1)</b>			
OBR-4.1	Identifier	S-TR-R	11011-4	
OBR-4.2	Text	S-EX-A	Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method	
OBR-4.3	Name of the Coding System	S-RC	LN	
OBR-4.4	Alternate Identifier	S-TR-R	HCVRNA	
OBR-4.5	Alternate Text	S-EX-A	Hepatitis C RNA PCR	
OBR-4.6	Name of Alternate Coding System	S-RC	L	
OBR-4.9	Original Text	S-EX		
<b>OBR-26</b>	<b>Parent Result</b>			
<b>OBR-26.1</b>	<b>Parent Observation Identifier (Note 2)</b>			
OBR-26.1.1	Identifier	S-EX-A	48159-8	
OBR-26.1.2	Text	S-EX-A	Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay	
OBR-26.1.3	Name of the Coding System	S-EX-A	LN	
OBR-26.1.4	Alternate Identifier	S-EX-A	HCVSCO	
OBR-26.1.5	Alternate Text	S-EX-A	Hepatitis C antibodies Signal to Cut-off Ratio	
OBR-26.1.6	Name of Alternate Coding System	S-EX-A		
<b>OBR-26.2</b>	<b>Parent Observation Sub-Identifier</b>			
OBR-26.2.2	Group	S-EX-A		
OBR-26.2.3	Sequence	S-EX-A		
OBR-26.2.4	Identifier	S-EX-A		
<b>OBR-29</b>	<b>Parent (Note 2)</b>			
<b>OBR-29.1</b>	<b>Placer Assigned Identifier</b>			
OBR-29.1.1	Entity Identifier	S-EX-A	ORD448811	

Order Information (cont'd) Child Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
OBR-29.1.2	Namespace ID	S-EX-A	NIST EHR	
OBR-29.1.3	Universal ID	S-EX-A		
OBR-29.1.4	Universal ID Type	S-EX-A		
<b>OBR-29.2</b>	<b>Filler Assigned Identifier</b>			
OBR-29.2.1	Entity Identifier	S-EX-A	R-511	
OBR-29.2.2	Namespace ID	S-EX-A	NIST Lab Filler	
OBR-29.2.3	Universal ID	S-EX-A		
OBR-29.2.4	Universal ID Type	S-EX-A		
<b>ORC-31/OBR-50</b>	<b>Parent Universal Service Identifier</b>			
ORC-31.1/OBR-50.1	Identifier	S-EX-A	HepABC Panel	
ORC-31.2/OBR-50.2	Text	S-EX-A	Hepatitis A B C Panel	
ORC-31.3/OBR-50.3	Name of Coding System	S-EX-A	L	
ORC-31.4/OBR-50.4	Alternate Identifier	S-EX-A		
ORC-31.5/OBR-50.5	Alternate Text	S-EX-A		
ORC-31.6/OBR-50.6	Name of Alternate Coding System	S-EX-A		
ORC-31.9/OBR-50.9	Original Text	S-EX-A		
<b>Note 1</b> -Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, MUST store the exact data received.				
<b>Note 2</b> - The HIT Module must display the relationship to the parent, but is not required to store the actual received data when the association to a specific result is achieved, otherwise use S-EX to save the information.				

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	11011-4	
OBX-3.2	Text	S-EX-A	Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	HCVRNA	
OBX-3.5	Alternate Text	S-EX-A	Hepatitis C RNA PCR	
OBX-3.6	Name of Alternate Coding System	S-RC	L	
OBX-3.9	Original Text	S-EX		
<b>OBX-5</b>	<b>Observation Value</b>			
OBX-5.1	Comparator	S-EX		
OBX-5.2	Num1	S-EQ	7611200	
OBX-5.3	Separator/Suffix	S-EX		
OBX-5.4	Num2	S-EQ		
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R	[IU]/mL	
OBX-6.2	Text	S-TR-R	international unit per milliliter	
OBX-6.3	Name of the Coding System	S-RC	UCUM	
OBX-6.4	Alternate Identifier	S-TR-R	IU/ml	
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC	L	
OBX-6.9	Original Text	S-EX		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX	<43 IU/mL	
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R	H	
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ	09/25/2015 ::	
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ	06/29/2012 09:27:00	
<b>Note 1</b> - Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, MUST store the exact data received.				
<b>Note 2</b> - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.				

Specimen Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>SPM-4</b>	<b>Specimen Type (Note 1)</b>			
SPM-4.1	Identifier	S-TR-R	119364003	
SPM-4.2	Text	S-EX-A	Serum specimen (specimen)	
SPM-4.3	Name of the Coding System	S-RC	SCT	
SPM-4.4	Alternate Identifier	S-TR-R	SER	
SPM-4.5	Alternate Text	S-EX-A	Serum	
SPM-4.6	Name of Alternate Coding System	S-RC	L	
SPM-4.9	Original Text	S-EX		
<b>Note 1</b> - The HIT must store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, MUST store the exact data received.				

## Instructions to Testers for Verification of Store Requirements

*Note: The HIT Module being tested is always allowed to incorporate/store the exact data received in the LRI message even if a given Store Requirement does not explicitly state that the HIT Module is permitted to do so.*

Store Requirement	Definition	Instructions for Verification of Requirement During Conformance Testing
S-EX	Store Exact	<p>The HIT Module being tested must be designed to incorporate/store only the exact data received in the LRI message.</p> <ul style="list-style-type: none"> <li>Tester must verify that the HIT Module being tested incorporates/stores <b>in the patient's laboratory result record only the exact data received</b> in the LRI message, and that the HIT Module does not just store an equivalent of that exact data or just a pointer to the exact data.</li> </ul>
S-EX-A	Store exact by association	<p>The HIT Module being tested must be designed (1) to incorporate/store the exact data received in the LRI message OR (2) to use a pointer to a location (e.g., file/table in or accessible to the HIT Module) where the exact data can be obtained.</p> <ul style="list-style-type: none"> <li>Tester must verify that the HIT Module being tested incorporates/stores <b>in the patient's laboratory result record the exact data received</b> in the LRI message OR that the HIT Module incorporates/stores <b>in the patient's laboratory result record a pointer to the exact data received</b> in the LRI message.</li> </ul> <p>Example: Placer Number; the HIT-originated Placer Number received in the LRI message may be incorporated/stored using a pointer rather than being stored redundantly in the patient's lab result record.</p>
S-EQ	Store equivalent	<p>The HIT Module being tested must be designed to transform the exact data received in the LRI message to an equivalent format and then incorporate/store the equivalent format.</p> <ul style="list-style-type: none"> <li>Tester must verify that the HIT Module being tested transforms the exact data received in the LRI message to an equivalent format and incorporates/stores <b>the equivalent format in the patient's laboratory result record</b>.</li> </ul>
S-TR-R	Translate and store translation (exact value can be re-created from translation any time)	<p>The HIT Module being tested must be designed to transform the exact data received in the LRI message to an equivalent value and then incorporate/store the equivalent value.</p> <ul style="list-style-type: none"> <li>Tester must verify that the HIT Module being tested incorporates/stores <b>in the patient's laboratory result record the equivalent value</b>.</li> <li>Tester must also verify that the HIT Module is able to re-create from this equivalent value the exact data received in the LRI message.</li> </ul>
S-RC	Process and re-create	<p>The HIT Module being tested must be designed to process and incorporate/store in an "abstract-able manner" (e.g., using the HIT Module's data model) the exact data received in the LRI message and to re-create the exact data (e.g., from the HIT Module's data model).</p> <ul style="list-style-type: none"> <li>Tester must verify that the HIT Module being tested processes and abstractly incorporates/stores <b>in the patient's laboratory result record the exact data received</b> in the LRI message.</li> <li>Tester also must verify that the HIT Module is able to re-create the exact data received in the LRI message by abstracting the data (e.g., from the HIT Module's data model).</li> </ul> <p>Example: Identifier Type Code; the HIT Module uses a separate file/table to store Social Security Numbers versus internal Medical Record Numbers, and does not need to retain the Identifier Type Code</p>

MSH|^^&|NIST Test Lab APP|NIST Lab Facility|NIST EHR Facility|20150926160001||ORU^R01^ORU\_R01|LRI\_5.1\_2.1-NG\_FRN|D|2.5.1||AL|AL||||LRI\_NG\_FRN\_Profile^^2.16.840.1.113883.9.195.3.4^ISO

PID|1|PATID1239^^NIST MPI^MR||Smirnoff^Peggy^^^^L|19750401|F||2106-3^White^HL70005||||PATID1239^^NIST MPI^AN

ORC|RE|ORD448811^NIST EHR|R-511^NIST Lab Filler||||||5742200012^Radon^Nicholas^^DR^^NPI^L^^NPI

OBR|1|ORD448811^NIST EHR|R-511^NIST Lab Filler|HepABC Panel^Hepatitis A B C Panel^L||20150925||||||5742200012^Radon^Nicholas^^DR^^NPI^L^^NPI||||20150926140500-0800||F

OBX|1|CWE|22314-9^Hepatitis A virus IgM Ab [Presence] in Serum^LN^HAVM^Hepatitis A IgM antibodies (IgM anti-HAV)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Kno  
wsalot^Phil^J.^Dr.||||RSLT

OBX|2|CWE|20575-7^Hepatitis A virus Ab [Presence] in Serum^LN^HAVAB^Hepatitis A antibodies (anti-HAV)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|3|CWE|16933-4^Hepatitis B virus core Ab [Presence] in Serum^LN^HBVcAB^Hepatitis B core antibodies (anti-HBVc)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|4|SN|22316-4^Hepatitis B virus core Ab [Units/volume] in Serum^LN^HBcAbQ^Hepatitis B core antibodies (anti-HBVc) Quant^L^2.52||^0.40|[IU]/mL^international unit per milliliter^UCUM^s/co^L^1.9|<0.50 IU/mL|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|5|CWE|22320-6^Hepatitis B virus e Ab [Presence] in Serum^LN^HBVeAB^Hepatitis B e antibodies (anti-HBVe)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|6|CWE|5195-3^Hepatitis B virus surface Ag [Presence] in Serum^LN^HBVsAG^Hepatitis B surface antigen (HBsAg)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|7|CWE|22322-2^Hepatitis B virus surface Ab [Presence] in Serum^LN^HBVSAB^Hepatitis B surface antibody (anti-HBVs)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|8|CWE|16128-1^Hepatitis C virus Ab [Presence] in Serum^LN^HCVAB^Hepatitis C antibody screen (anti-HCV)^L^2.52||10828004^Positive (qualifier value)^SCT^POS^POSITIVE^L^201509USED^^Positive (qualifier value)||Negative|A||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|9|SN|48159-8^Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay^LN^HCVSCO^Hepatitis C antibodies Signal to Cut-off Ratio^L^2.52||^10.8|{s\_co\_ratio}^Signal to cutoff ratio^UCUM^s/co^L^1.9|0.0-0.9 s/co|H||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

NTE|1||Negative: < 0.8; Indeterminate 0.8 - 0.9; Positive: > 0.9

NTE|2||In order to reduce the incidence of a false positive result, the CDC recommends that all s/co ratios between 1.0 and 10.9 be confirmed with additional Verification or PCR testing.

SPM|1|S-2015-666666&GoodHealthC\_EHR^S-991133&NIST Lab Filler||119364003^Serum specimen (specimen)^SCT^SER^Serum^L^20150

9USED|||||||20150925

ORC|RE|R-511^NIST Lab Filler|||||5742200012^Radon^Nicholas^^^DR^^NPI^L^^NPI|||||||HepABC Panel^Hepatitis A B C Panel^L

OBR|2|R-511^NIST Lab Filler|11011-4^Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method^LN^HCVRNA^Hepatitis C RNA PCR^L^2.52|||20150925||||G||||5742200012^Radon^Nicholas^^^DR^^NPI^L^^NPI|||||20150929102500||F|48159-8&Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay&LN&HCVSCO &Hepatitis C antibodies Signal to Cut-off Ratio&L&2.52|||ORD448811&NIST EHR^R-511&NIST Lab Filler|||||||HepABC Panel^Hepatitis A B C Panel^L

OBX|1|SN|11011-4^Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method^LN^HCVRNA^Hepatitis C RNA PCR^L^2.52||^7611200|[IU]/mL^international unit per milliliter^UCUM^IU/mL^L^1.9|<43 IU/mL|H||F|||20150925|||||20120629092700||||Century Hospital^^^^^CLIA^XX^^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

SPM|1|S-2015-666666&GoodHealthC\_EHR^S-991133&NIST Lab Filler|119364003^Serum specimen (specimen)^SCT^SER^Serum^L^20150925