

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008495.D
 Acq On : 27 Mar 2019 20:07
 Operator : JC/SP
 Sample : K2103-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SHORE-RD-CLVRT-STLD-3H-A

Manual Integrations
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MMDadoda
 3/28/2019 9:35:30 AM

Quant Time: Mar 28 10:12:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35485	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	207600	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	181842	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	90282	30.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.37%
60) 4-Bromofluorobenzene	11.13	95	93436	29.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.30%
63) Toluene-d8	8.71	98	266417	30.87	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.90%

Target Compounds

					Ovalue
15) Acetone	2.44	58	3035	5.845	ug/l 86
26) Cyclohexane	5.58	56	115779	24.154	ug/l # 73
34) Benzene	6.15	78	11155	1.045	ug/l # 94
38) Methylcyclohexane	7.46	83	122178	27.762	ug/l 77
66) Ethyl Benzene	10.25	91	18104	1.481	ug/l 94
67) m/p-Xylenes	10.36	106	8195	1.839	ug/l 90
70) Isopropylbenzene	11.02	105	31574	2.744	ug/l 95
74) n-propylbenzene	11.36	91	119248	8.700	ug/l 94
76) 1,3,5-Trimethylbenzene	11.51	105	70560	7.173	ug/l 95
81) sec-Butylbenzene	11.94	105	17457	1.553	ug/l 91
85) n-Butylbenzene	12.38	91	43146m	4.517	ug/l
91) Naphthalene	13.83	128	62826	5.429	ug/l # 95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

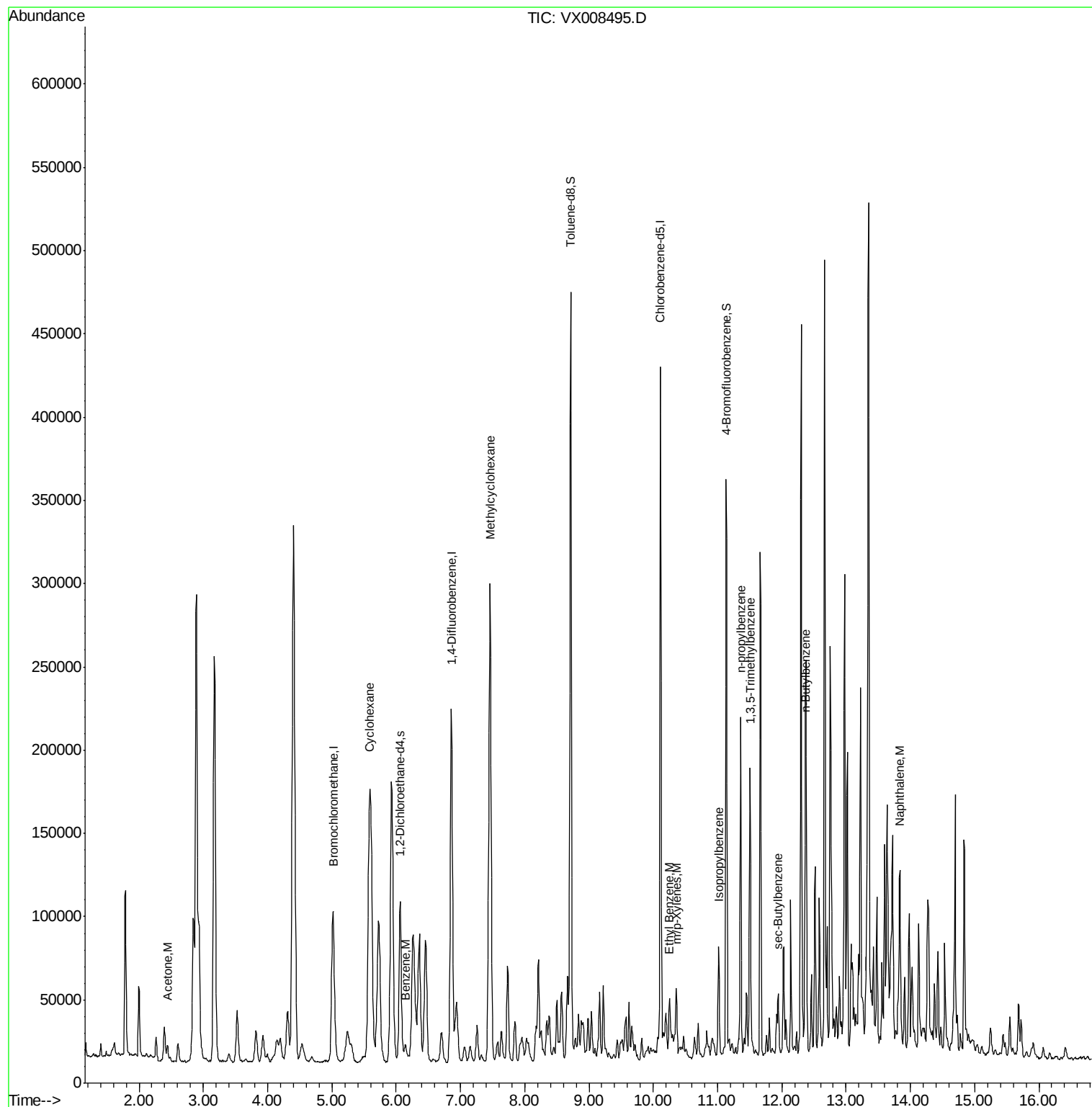
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Data File : VX008495.D
Acq On : 27 Mar 2019 20:07
Operator : JC/SP
Sample : K2103-03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 27 Sample Multiplier: 1

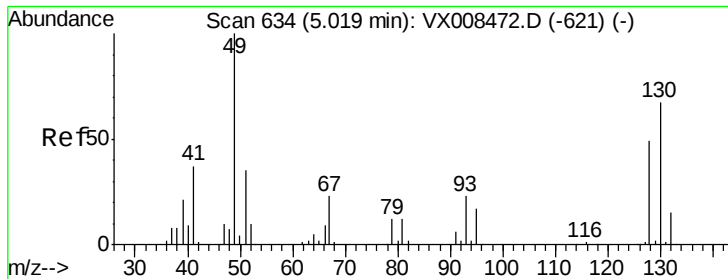
Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-CLVRT-STLD-3H-A

Manual Integrations
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Quant Time: Mar 28 10:12:31 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Mar 27 12:01:15 2019
Response via : Initial Calibration

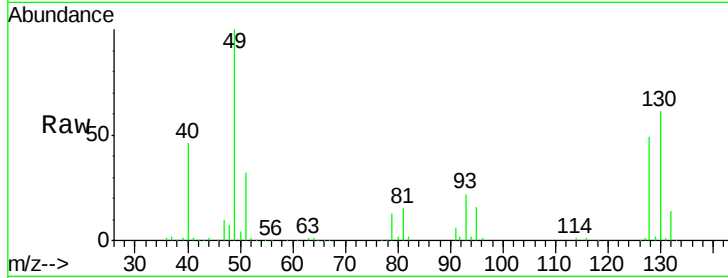




#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.01 min Scan# 633
 Delta R.T. -0.01 min
 Lab File: VX008495.D
 Acq: 27 Mar 2019 20:07

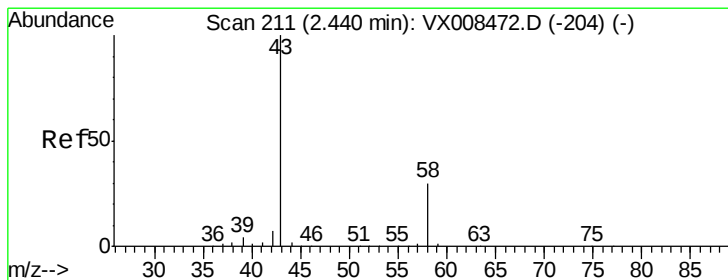
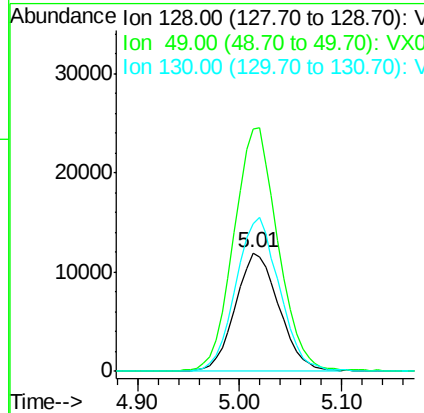
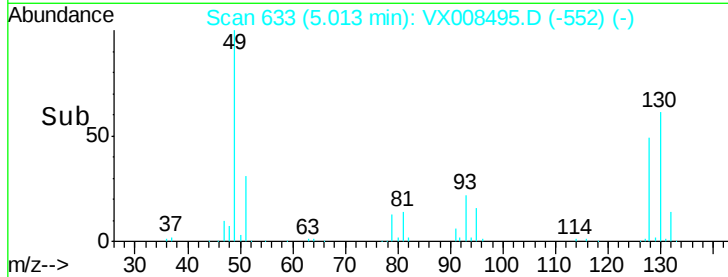
Instrument :
 MSVOA_X
 ClientSampleId :
 SHORE-RD-CLVRT-STLD-3H-A



Tot Ion	Ratio	Lower	Upper
128	100		
49	208.2	0.0	350.8
130	130.3	0.0	325.8

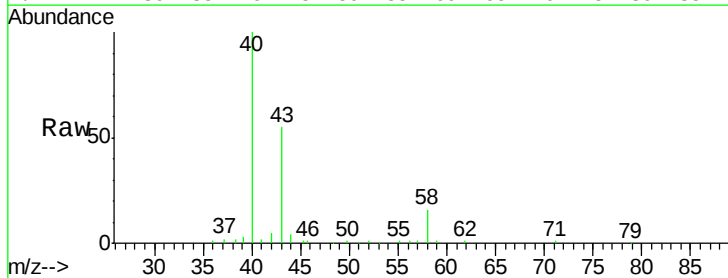
Manual Integrations
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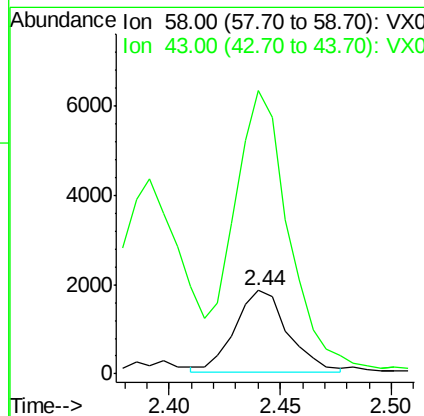
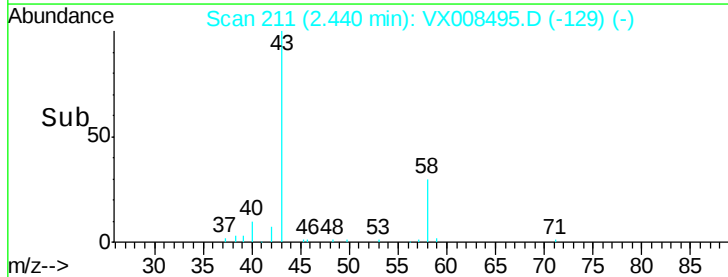


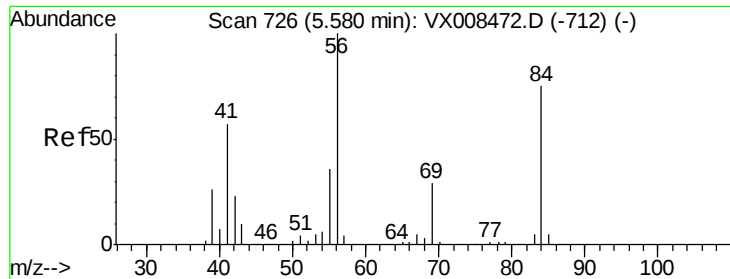
#15

Acetone
 Concen: 5.845 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. 0.00 min
 Lab File: VX008495.D
 Acq: 27 Mar 2019 20:07



Tgt Ion	Ratio	Lower	Upper
58	100		
43	340.1	249.8	374.6





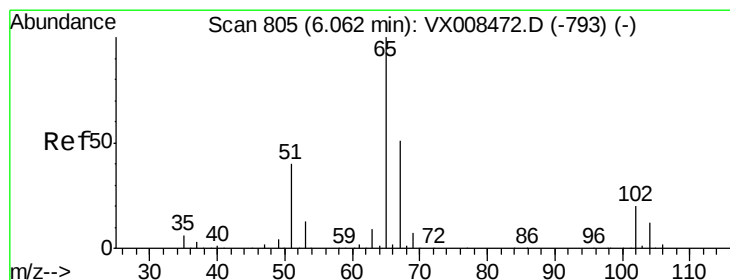
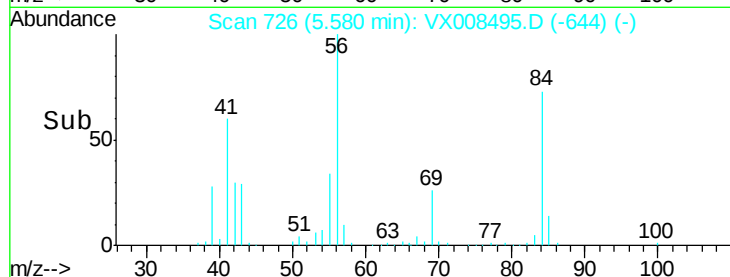
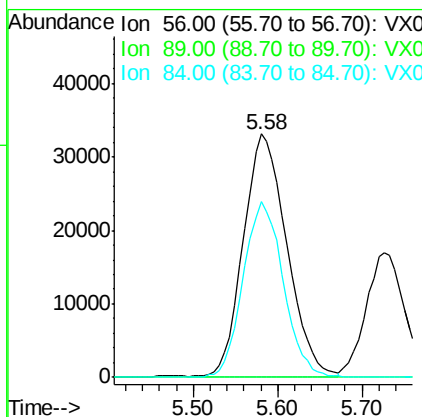
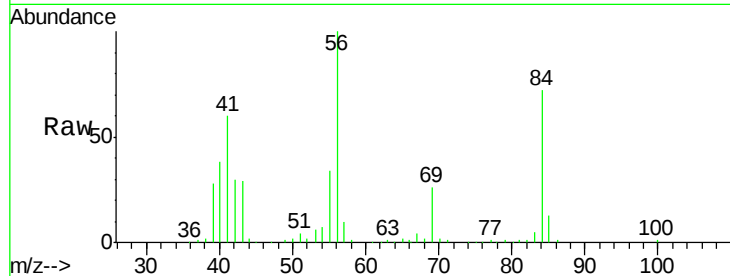
#26
Cyclohexane
Concen: 24.154 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.00 min
Lab File: VX008495.D
Acq: 27 Mar 2019 20:07

Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-CLVRT-STLD-3H-A

Tot Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	66.8	73.9	110.9#

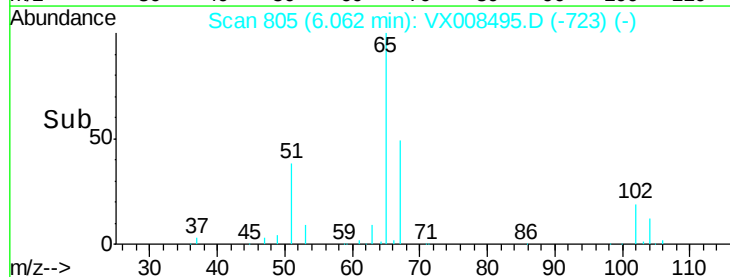
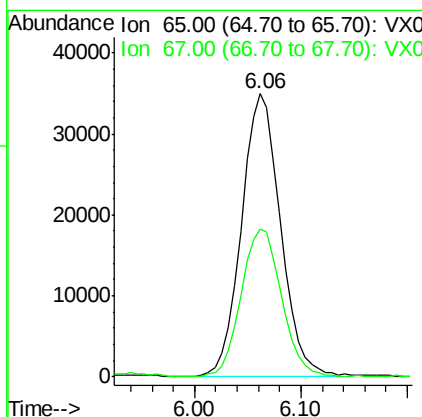
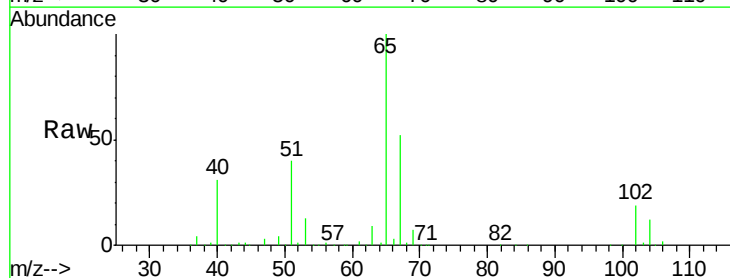
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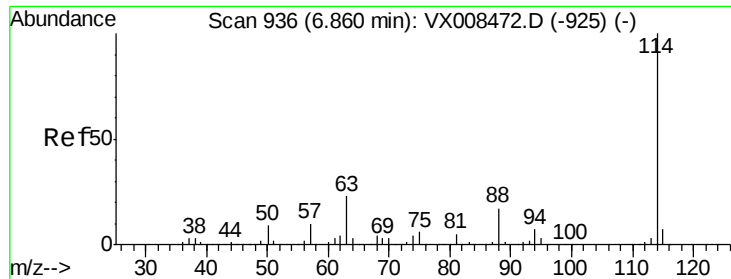
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#27
1,2-Dichloroethane-d4
Concen: 30.414 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX008495.D
Acq: 27 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
65	100		
67	54.1	42.9	64.3





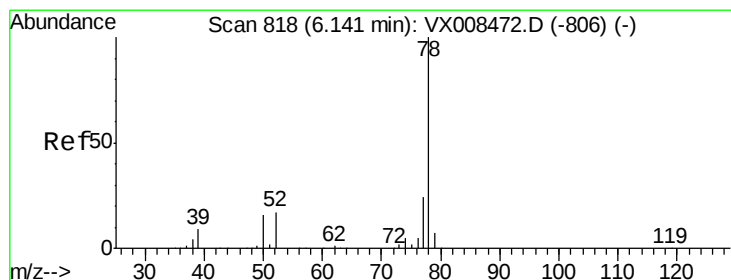
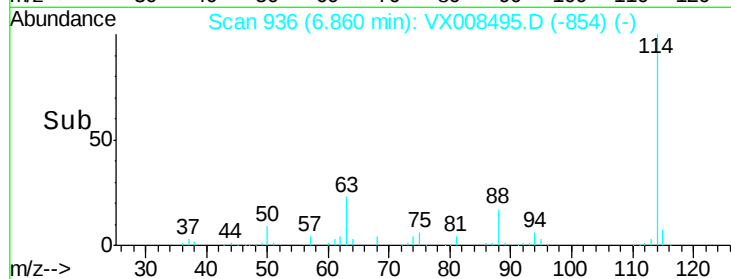
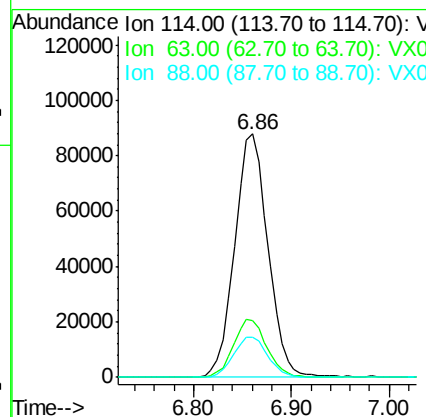
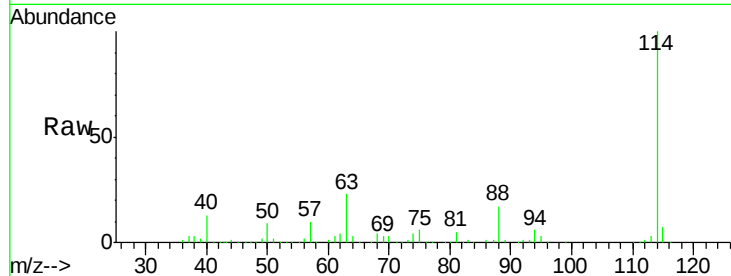
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008495.D
 Acq: 27 Mar 2019 20:07

Instrument :
 MSVOA_X
 ClientSampleId :
 SHORE-RD-CLVRT-STLD-3H-A

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.9	14.2	21.4#
88	17.1	11.9	17.9

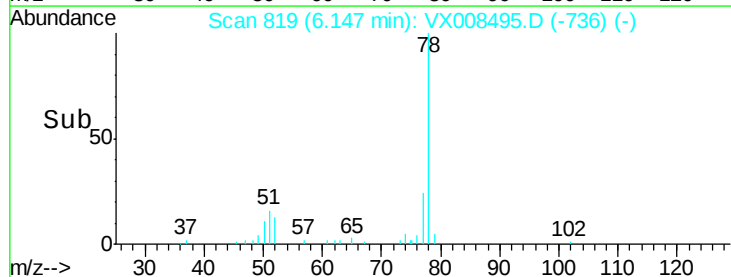
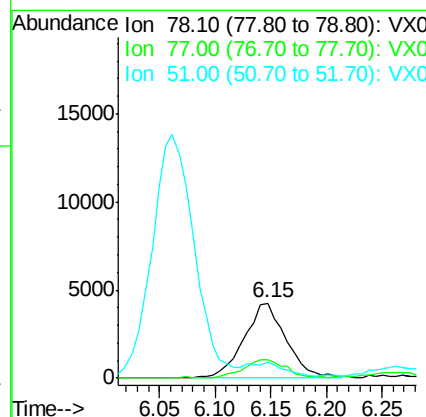
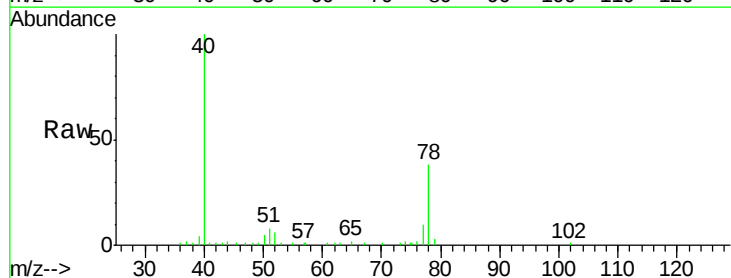
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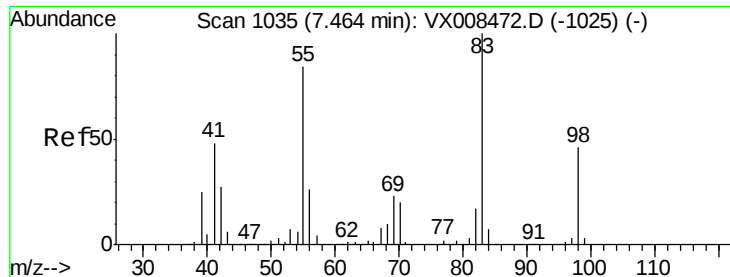
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#34
 Benzene
 Concen: 1.045 ug/l
 RT: 6.15 min Scan# 819
 Delta R.T. 0.01 min
 Lab File: VX008495.D
 Acq: 27 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.1	28.7
51	18.0	10.8	16.2#





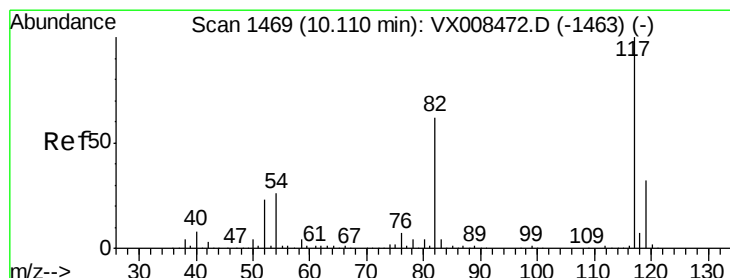
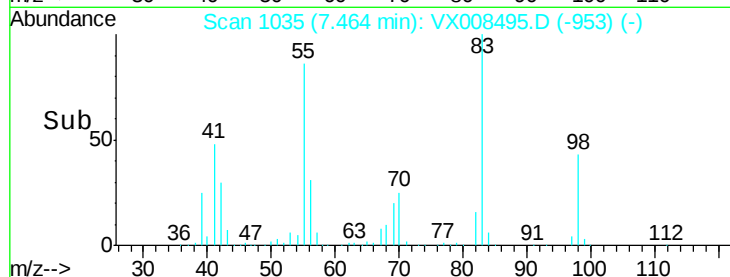
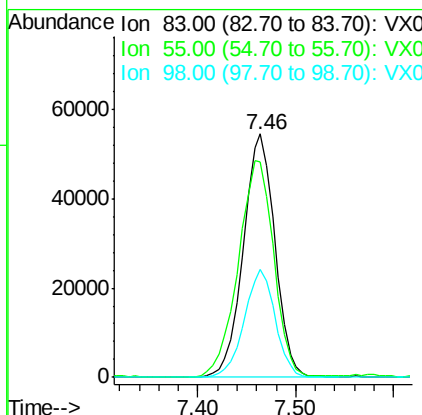
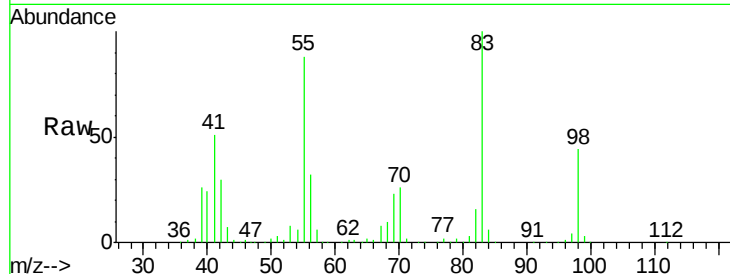
#38
Methvlcvclohexane
Concen: 27.762 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX008495.D
Acq: 27 Mar 2019 20:07

Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-CLVRT-STLD-3H-A

Tot Ion	Ratio	Lower	Upper
83	100		
55	99.9	36.0	108.0
98	43.4	23.8	71.4

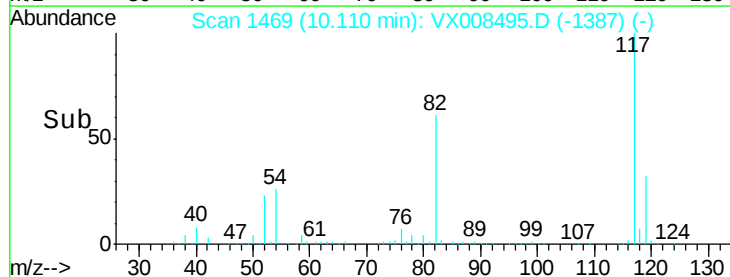
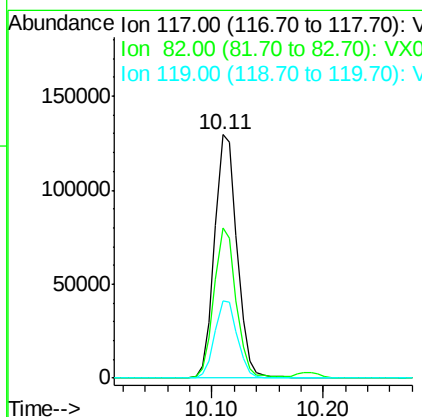
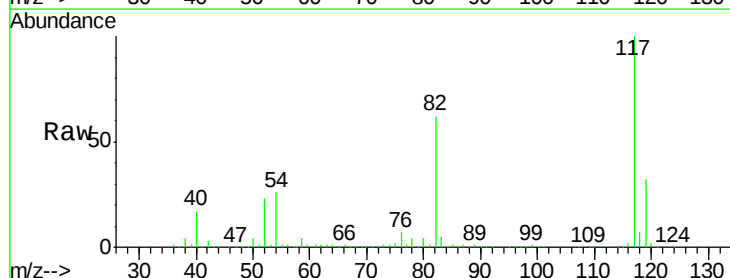
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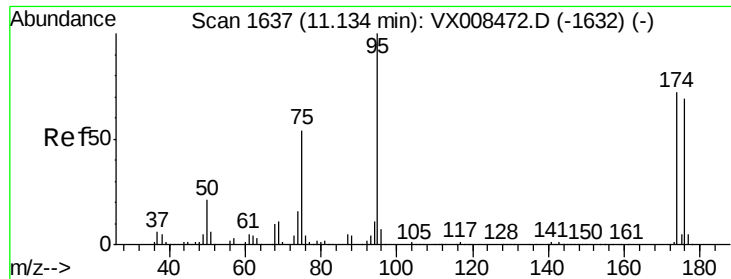
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#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008495.D
Acq: 27 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.4	40.4	60.6
119	32.1	25.8	38.6





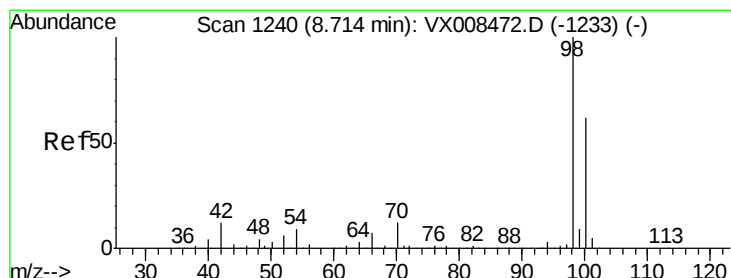
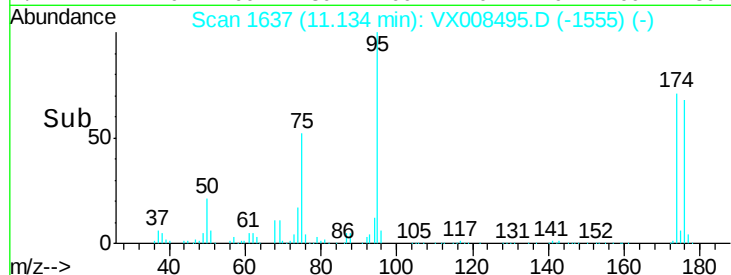
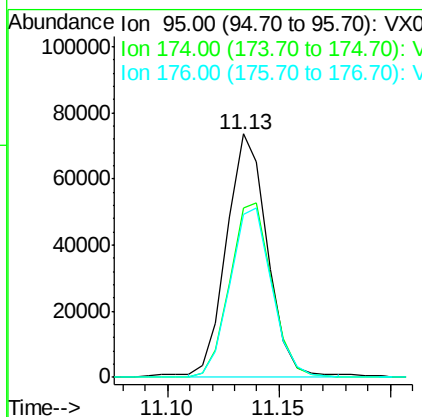
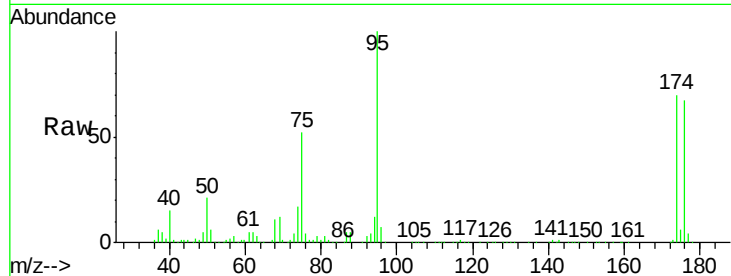
#60
 4-Bromofluorobenzene
 Concen: 29.491 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX008495.D
 Acq: 27 Mar 2019 20:07

Instrument :
 MSVOA_X
 ClientSampleId :
 SHORE-RD-CLVRT-STLD-3H-A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
95	100		93436		
174	74.4	74.9	112.3#		
176	71.6	70.7	106.1		

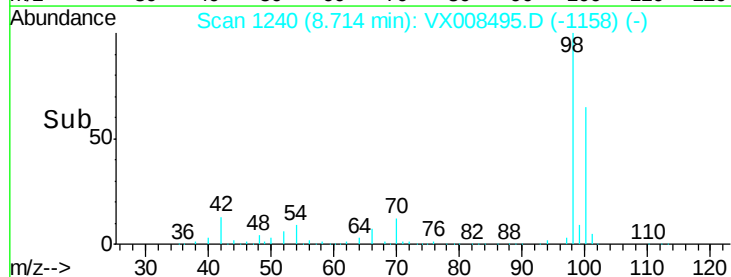
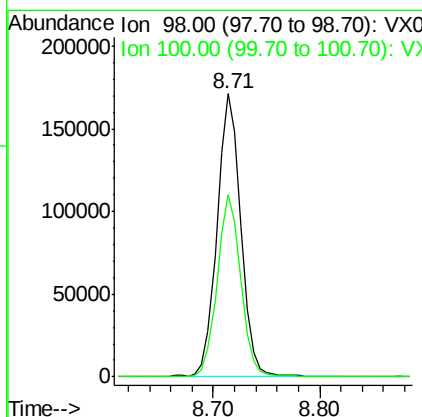
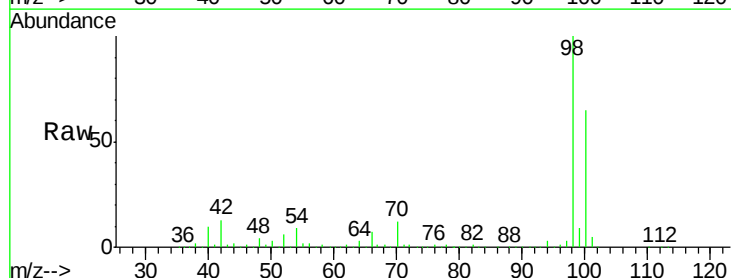
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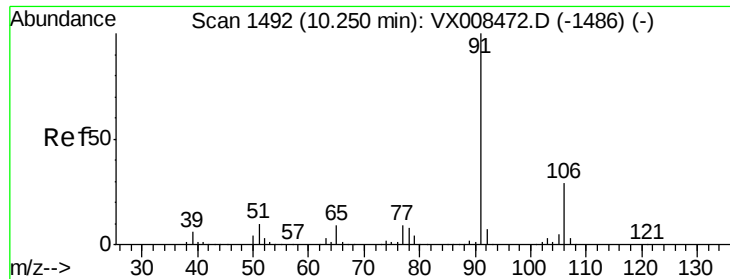
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#63
 Toluene-d8
 Concen: 30.865 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX008495.D
 Acq: 27 Mar 2019 20:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
98	100		266417		
100	63.4	50.9	76.3		





#66

Ethyl Benzene

Concen: 1.481 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX008495.D

Acq: 27 Mar 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-CLVRT-STLD-3H-A

Tot Ion: 91 Resp: 18104

Ion Ratio Lower Upper

91 100

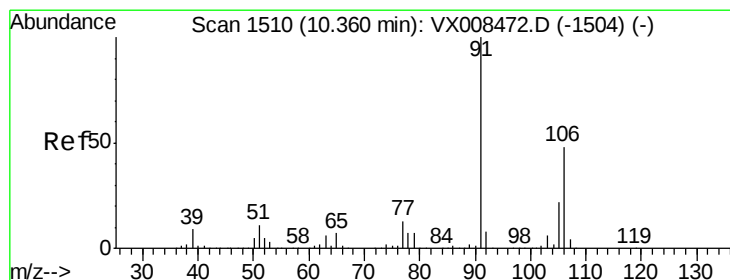
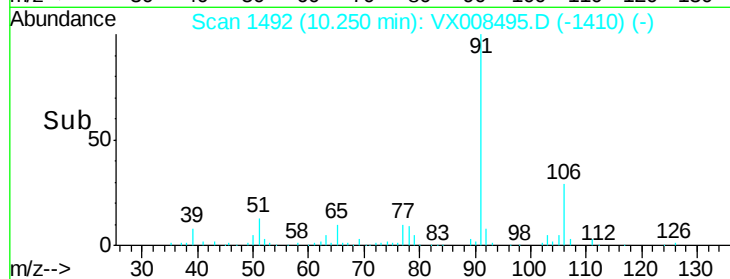
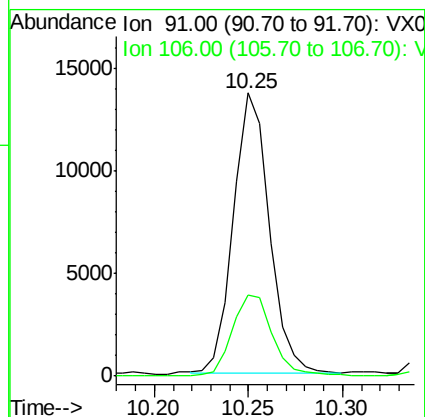
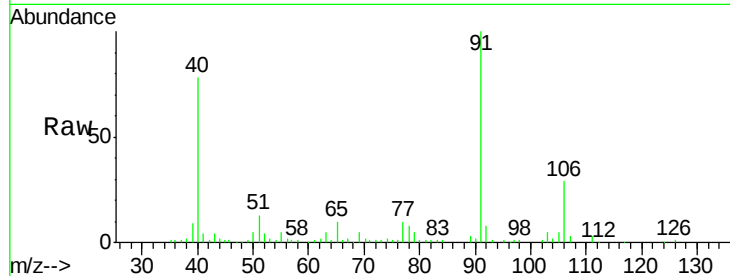
106 29.2 26.0 39.0

Manual Integrations

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#67

m/p-Xylenes

Concen: 1.839 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX008495.D

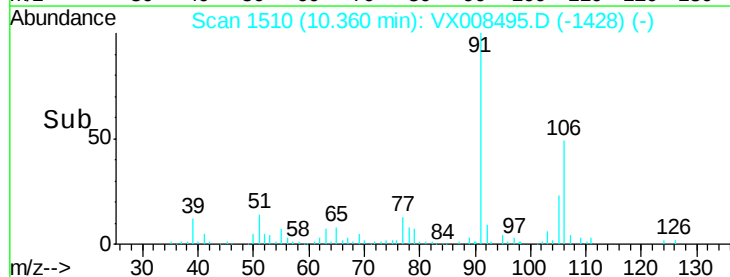
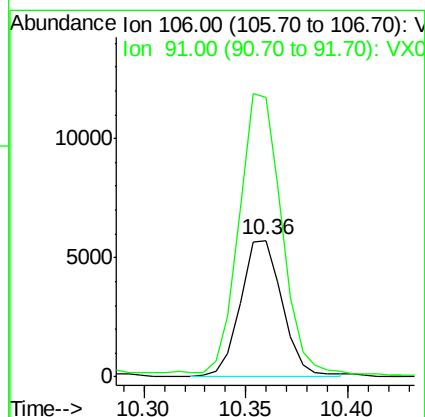
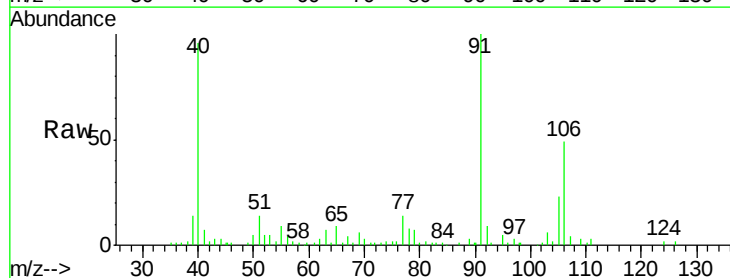
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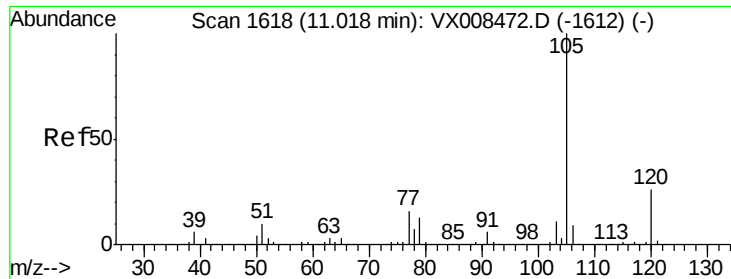
Tgt Ion: 106 Resp: 8195

Ion Ratio Lower Upper

106 100

91 210.9 157.0 235.4





#70

Isopropylbenzene

Concen: 2.744 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX008495.D

Acq: 27 Mar 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-CLVRT-STLD-3H-A

Tot Ion: 105 Resp: 31574

Ion Ratio Lower Upper

105 100

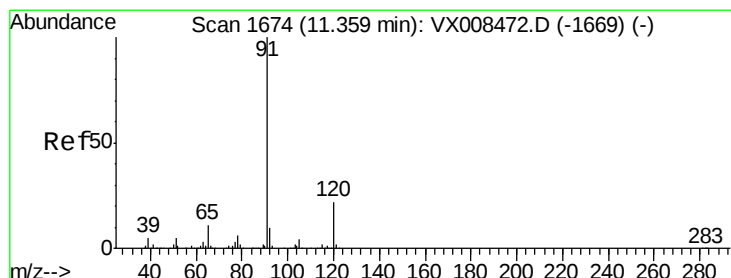
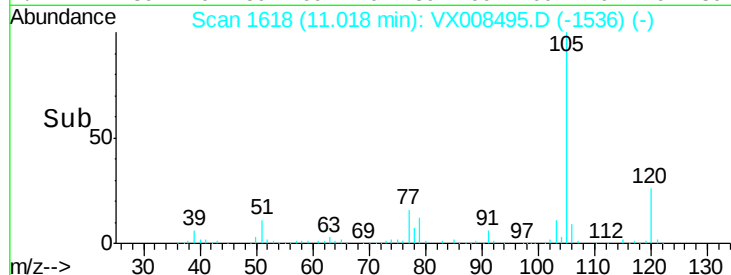
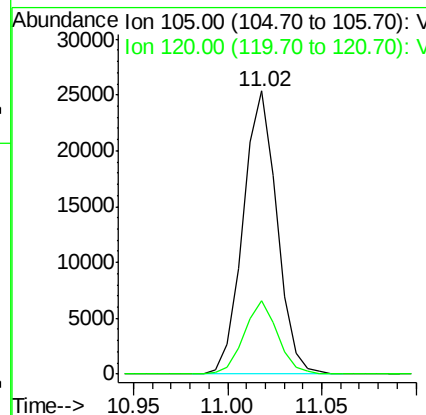
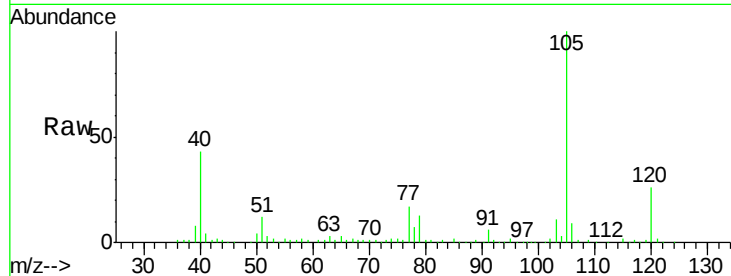
120 25.9 19.8 36.8

Manual Integrations

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#74

n-propylbenzene

Concen: 8.700 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX008495.D

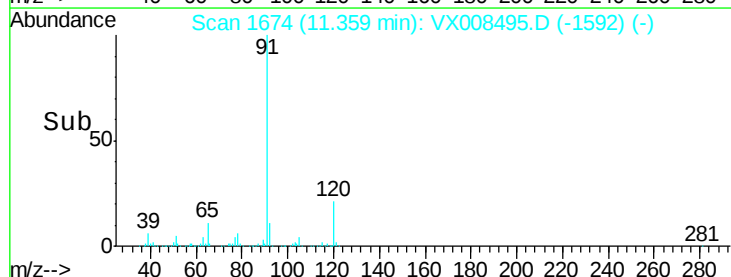
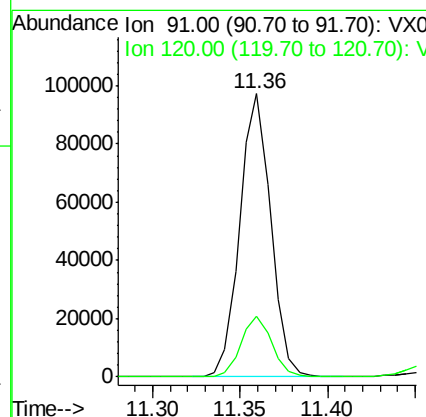
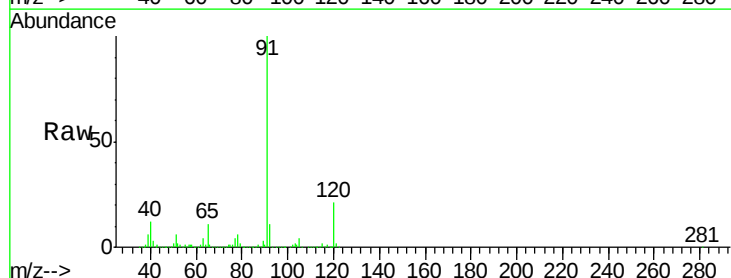
Acq: 27 Mar 2019 20:07

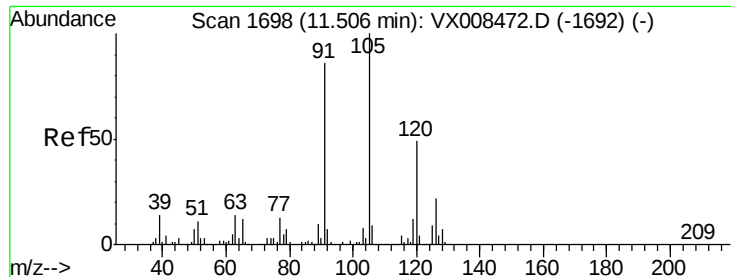
Tgt Ion: 91 Resp: 119248

Ion Ratio Lower Upper

91 100

120 21.4 0.0 48.6





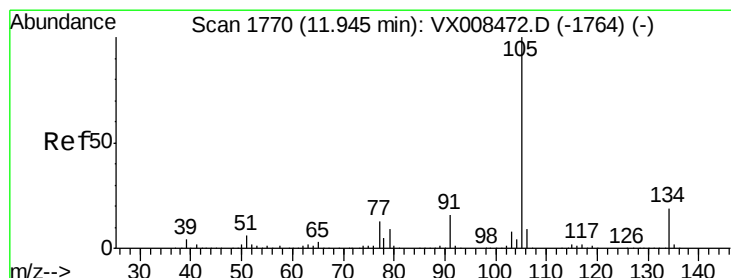
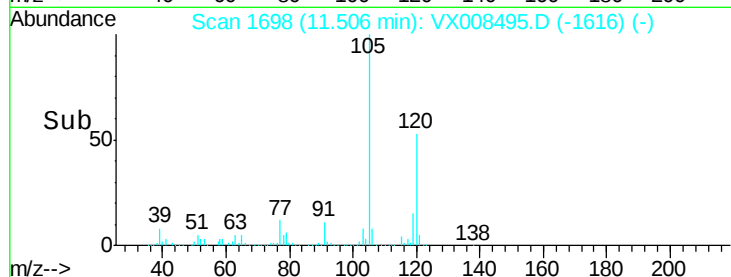
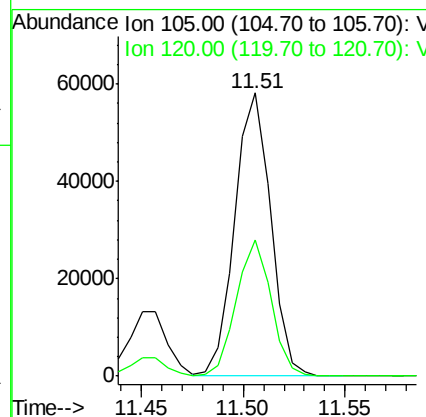
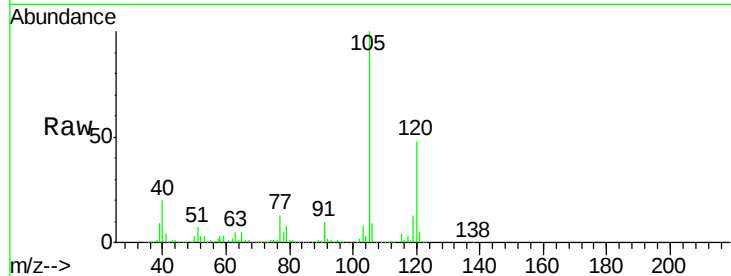
#76
 1,3,5-Trimethylbenzene
 Concen: 7.173 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX008495.D
 Acq: 27 Mar 2019 20:07

Instrument :
 MSVOA_X
 ClientSampleId :
 SHORE-RD-CLVRT-STLD-3H-A

Tot Ion	Ratio	Lower	Upper
105	100		
120	46.7	0.0	101.0

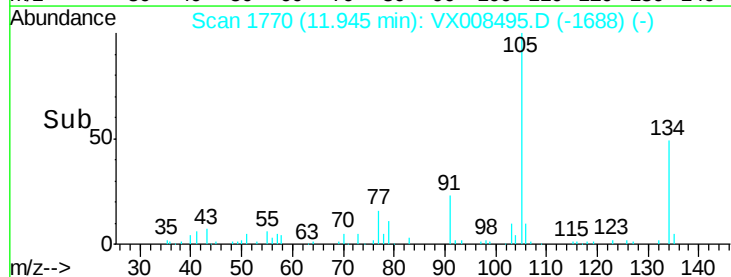
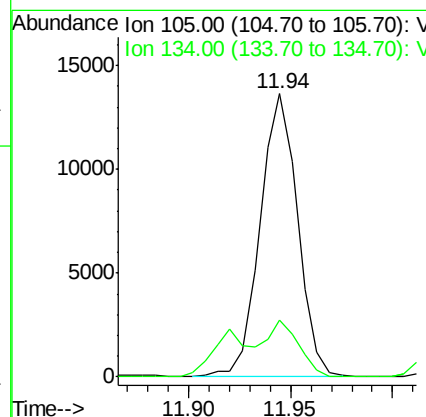
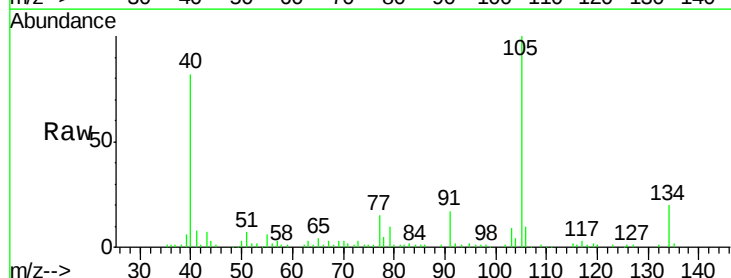
Manual Integrations
 APPROVED

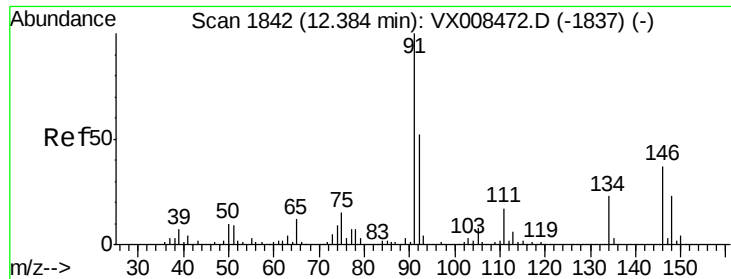
MMDadoda
 3/28/2019 9:35:30 AM



#81
 sec-Butylbenzene
 Concen: 1.553 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX008495.D
 Acq: 27 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
105	100		
134	16.8	0.0	41.8





#85

n-Butylbenzene

Concen: 4.517 ug/l m

RT: 12.38 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX008495.D

Acq: 27 Mar 2019 20:07

Instrument :

MSVOA_X

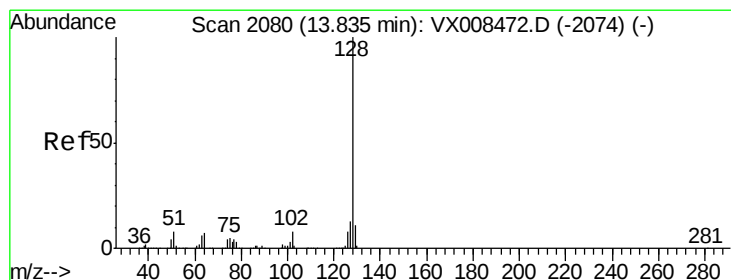
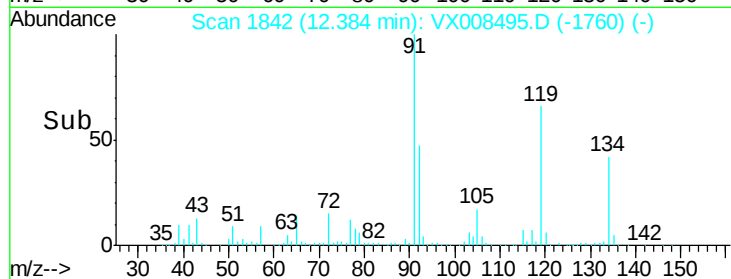
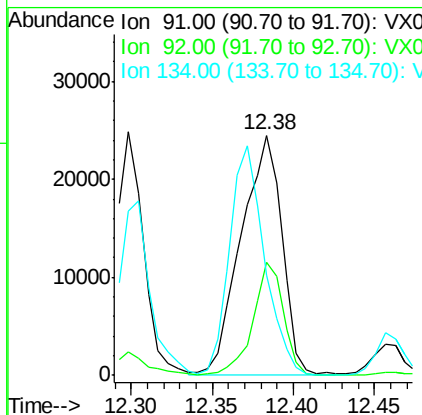
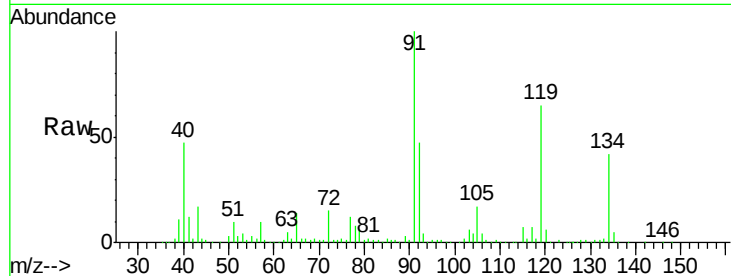
ClientSampleId :

SHORE-RD-CLVRT-STLD-3H-A

Tot Ion:	91	Resp:	43146
Ion Ratio	Lower	Upper	
91	100		
92	5.0	0.0	105.2
134	14.9	0.0	56.4

Manual Integrations
APPROVED

MMDadoda
3/28/2019 9:35:30 AM



#91

Naphthalene

Concen: 5.429 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008495.D

Acq: 27 Mar 2019 20:07

Tgt Ion:	128	Resp:	62826
Ion Ratio	Lower	Upper	
128	100		
127	14.2	10.5	15.7
129	14.2	8.9	13.3#

