

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052219\
 Data File : VX009829.D
 Acq On : 23 May 2019 02:04
 Operator : JC/SP
 Sample : K2976-08 50X
 Misc : 6.71g/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EP1-SB-E-7R(17-20)

Quant Time: May 23 07:23:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	178238	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	293713	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	267637	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	131069	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	123103	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
35) Dibromofluoromethane	5.50	113	87939	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	8.71	98	372398	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
62) 4-Bromofluorobenzene	11.13	95	141804	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	

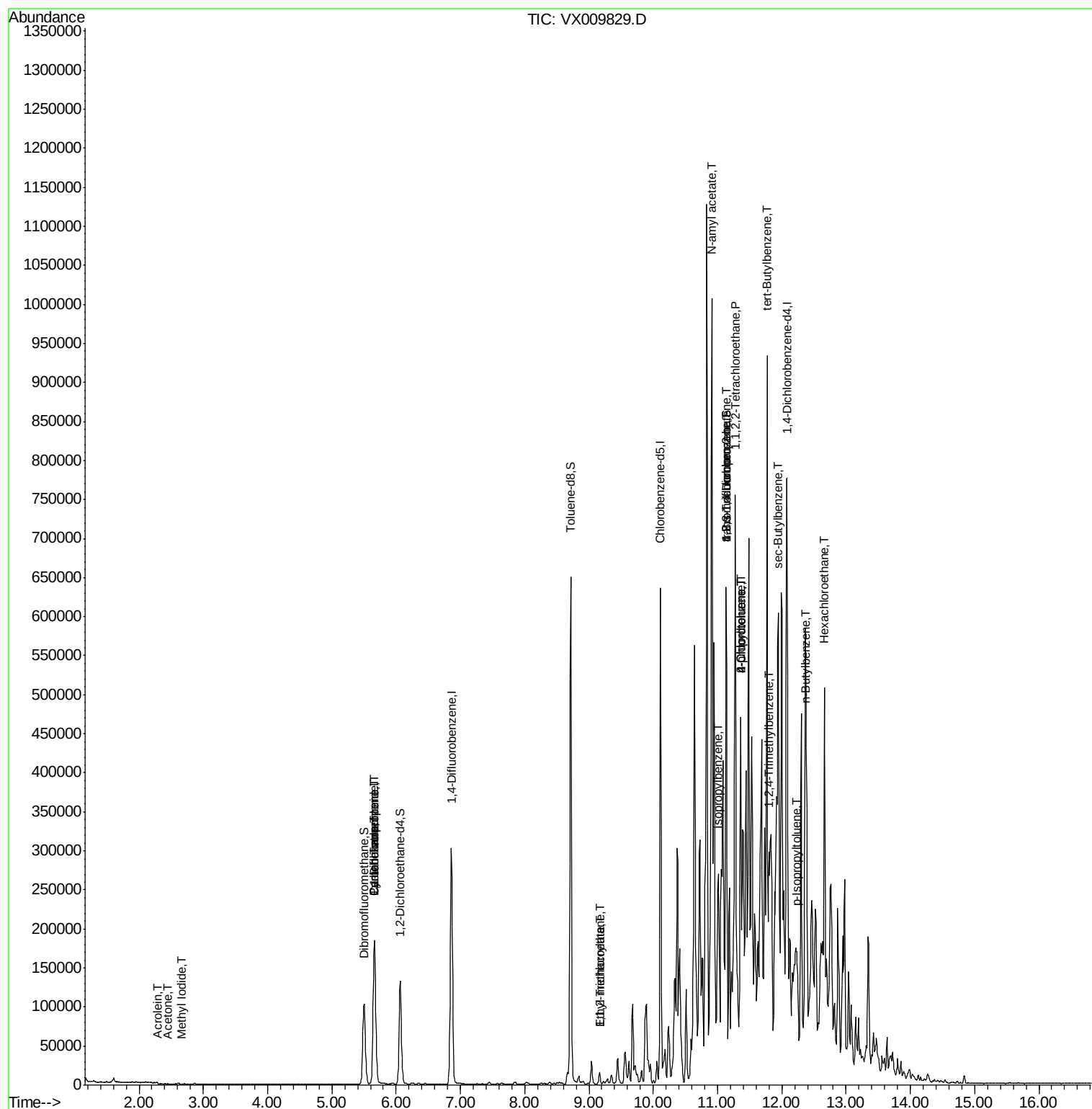
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.67	142	20	4.603	ug/l #	42
13) Acrolein	2.28	56	137	0.269	ug/l #	1
16) Acetone	2.45	43	549	0.420	ug/l #	79
28) Bromochloromethane	4.98	49	24	Below Cal	#	20
31) Cyclohexane	5.66	56	4428	1.231	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14170	5.191	ug/l #	51
38) Carbon Tetrachloride	5.67	117	17302	6.977	ug/l #	15
55) 1,1,2-Trichloroethane	9.16	97	4405	2.103	ug/l #	20
56) Ethyl methacrylate	9.16	69	1124	0.301	ug/l #	1
73) Isopropylbenzene	11.02	105	78631	8.250	ug/l	99
74) N-amyl acetate	10.91	43	90665	16.316	ug/l #	1
75) 1,1,1,2,2-Tetrachloroethane	11.27	83	41607	11.710	ug/l #	25
76) 1,2,3-Trichloropropane	11.13	75	69969	23.014	ug/l #	36
78) n-propylbenzene	11.36	91	240686	22.112	ug/l	98
79) 2-Chlorotoluene	11.36	91	240686	35.840	ug/l #	42
81) trans-1,4-Dichloro-2-buten	11.13	75	69969	58.884	ug/l #	10
82) 4-Chlorotoluene	11.36	91	240686	31.725	ug/l #	46
83) tert-Butylbenzene	11.77	119	17461	2.237	ug/l	87
84) 1,2,4-Trimethylbenzene	11.80	105	4073	0.506	ug/l	93
85) sec-Butylbenzene	11.94	105	128843	13.920	ug/l	95
86) p-Isopropyltoluene	12.23	119	34558	4.153	ug/l	95
89) n-Butylbenzene	12.38	91	93926	12.489	ug/l	89
90) Hexachloroethane	12.66	117	18275	12.892	ug/l #	7

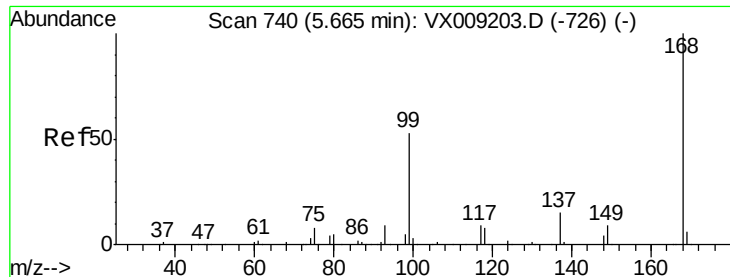
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

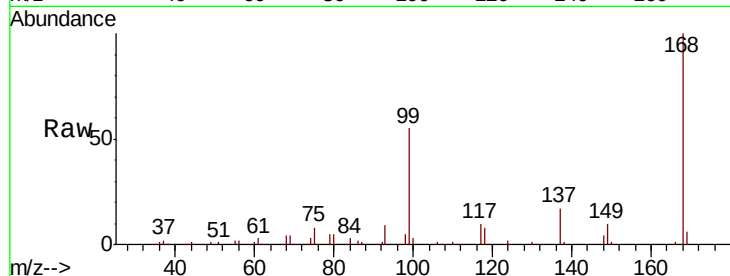
EP1-SB-E-7R(17-20)

Tot Ion:168 Resp: 178238

Ion Ratio Lower Upper

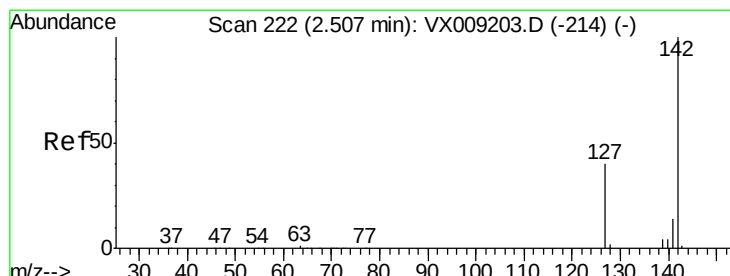
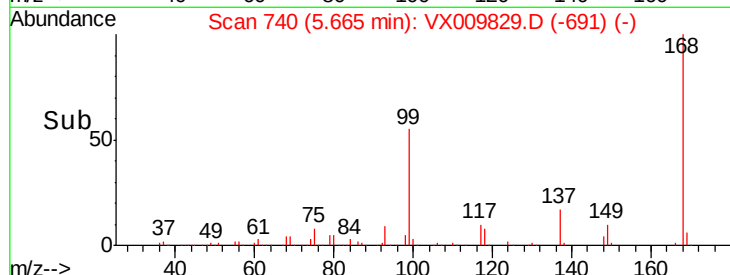
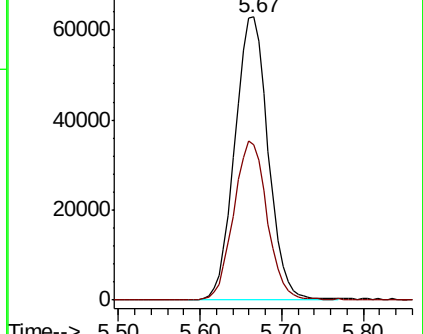
168 100

99 54.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#10

Methyl Iodide

Concen: 4.603 ug/l

RT: 2.67 min Scan# 248

Delta R.T. 0.16 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

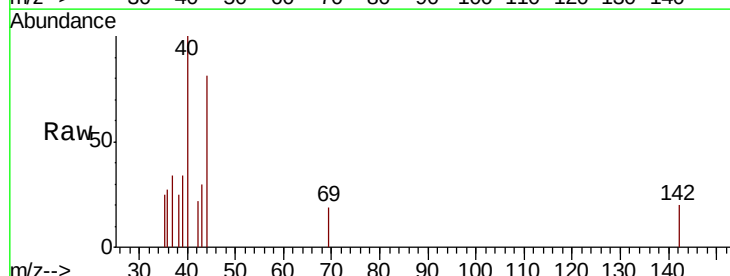
Tgt Ion:142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

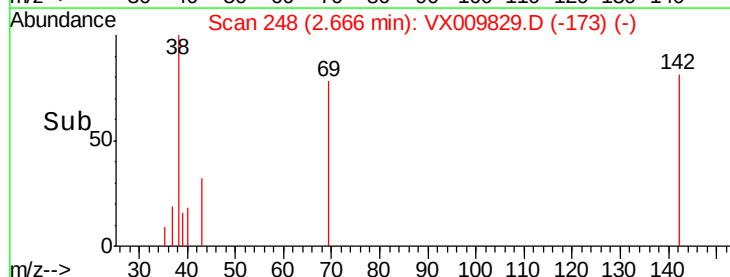
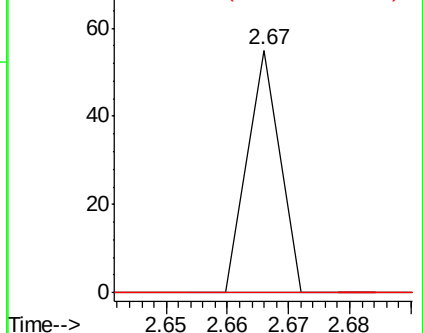
141 0.0 11.5 17.3#

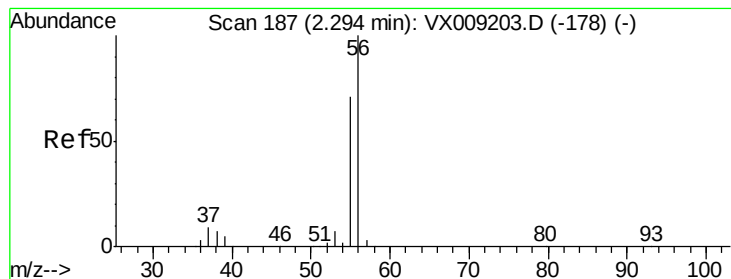


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 0.269 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

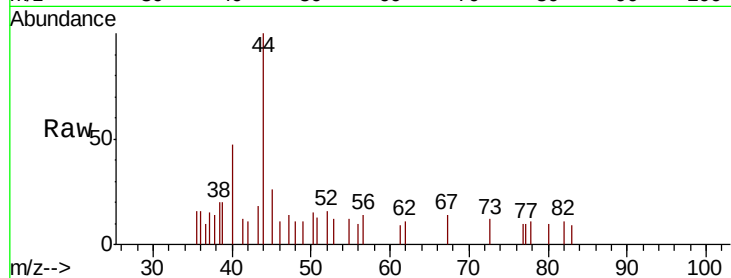
EP1-SB-E-7R(17-20)

Tot Ion: 56 Resp: 137

Ion Ratio Lower Upper

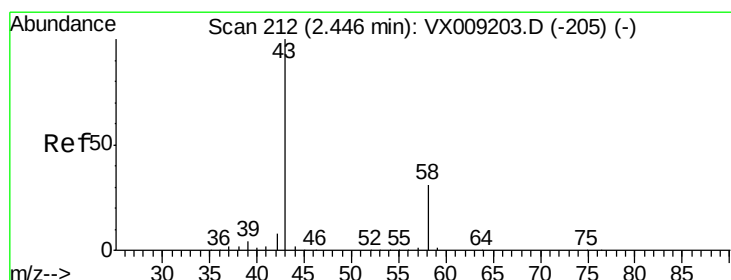
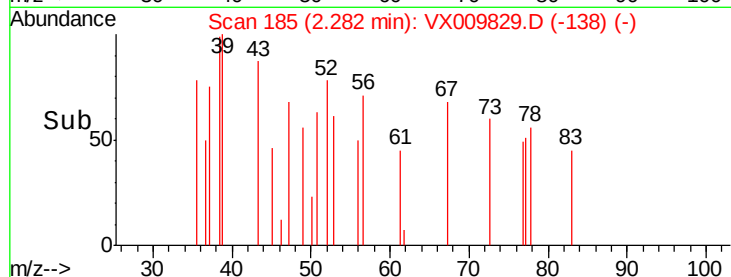
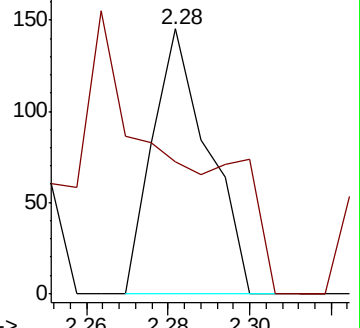
56 100

55 224.8 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.420 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009829.D

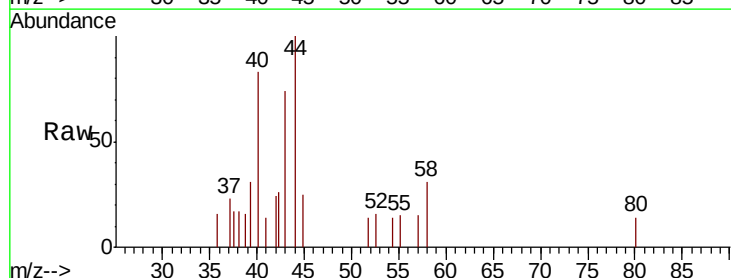
Acq: 23 May 2019 02:04

Tgt Ion: 43 Resp: 549

Ion Ratio Lower Upper

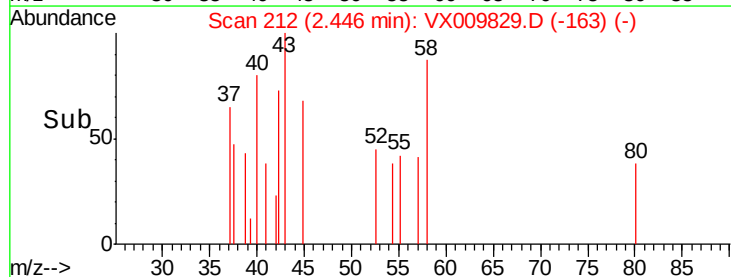
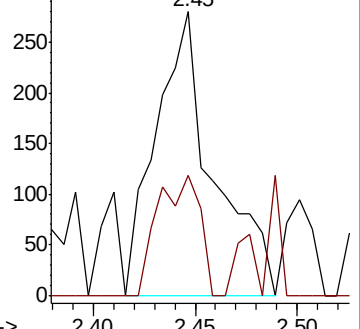
43 100

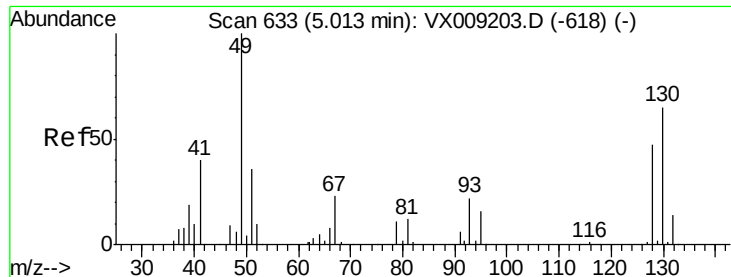
58 42.5 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 4.98 min Scan# 627

Delta R.T. -0.04 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

EP1-SB-E-7R(17-20)

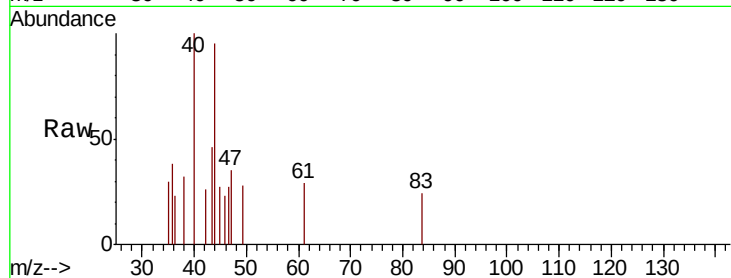
Tot Ion: 49 Resp: 24

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

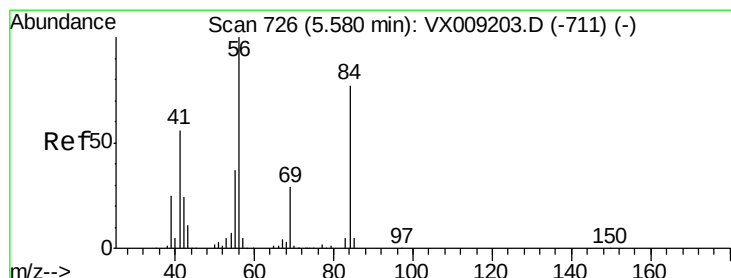
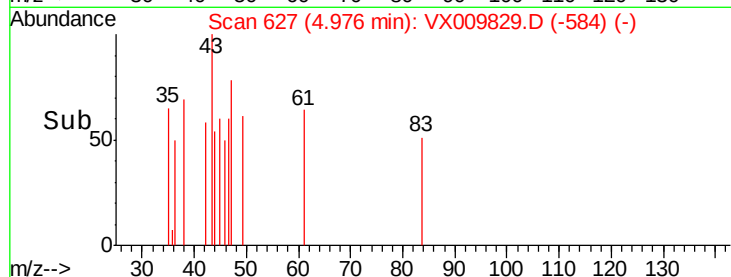
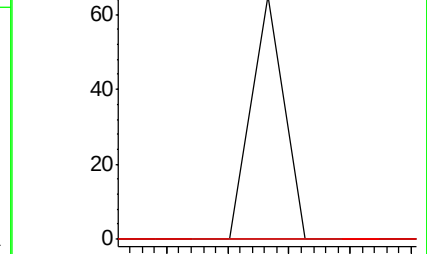
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.231 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

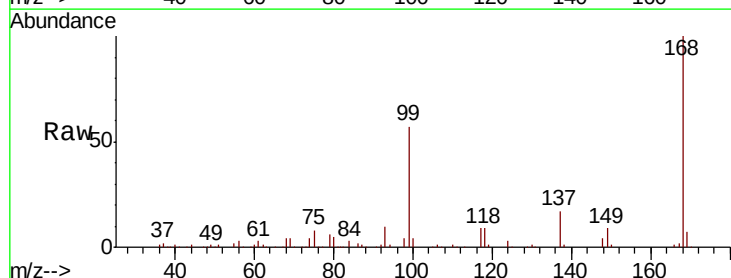
Tgt Ion: 56 Resp: 4428

Ion Ratio Lower Upper

56 100

69 173.8 23.4 35.0#

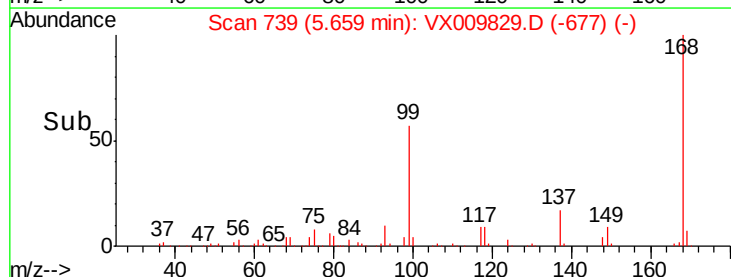
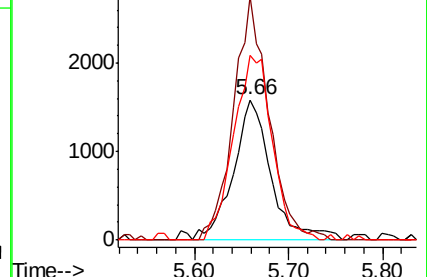
84 131.5 61.9 92.9#

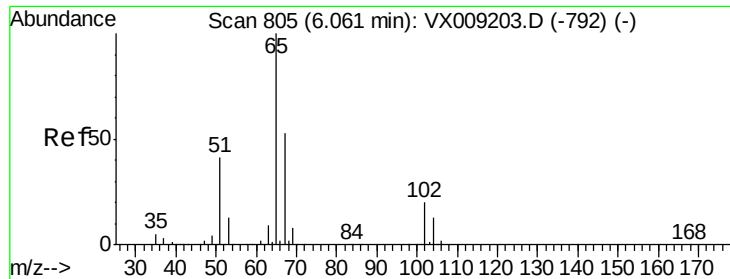


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.594 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

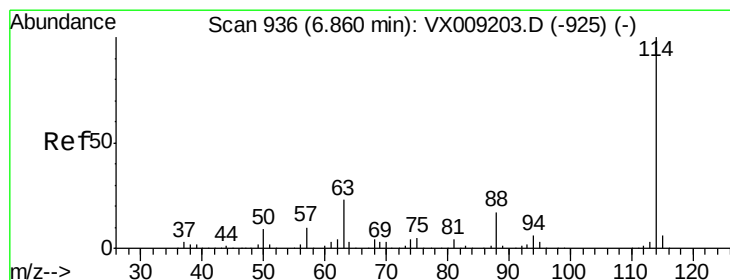
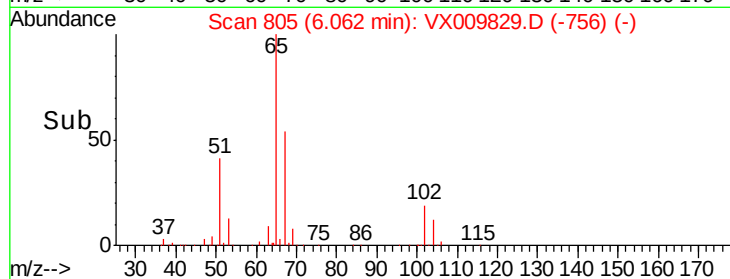
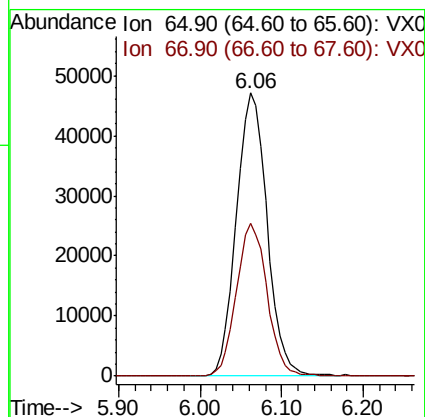
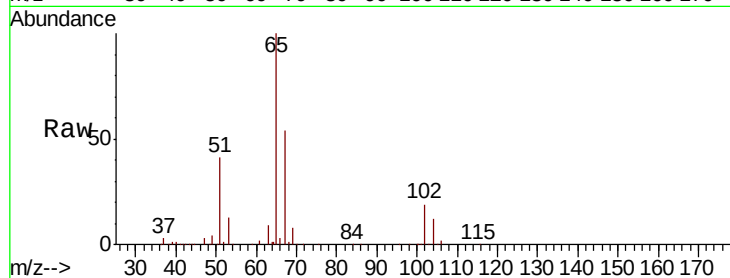
EP1-SB-E-7R(17-20)

Tot Ion: 65 Resp: 123103

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

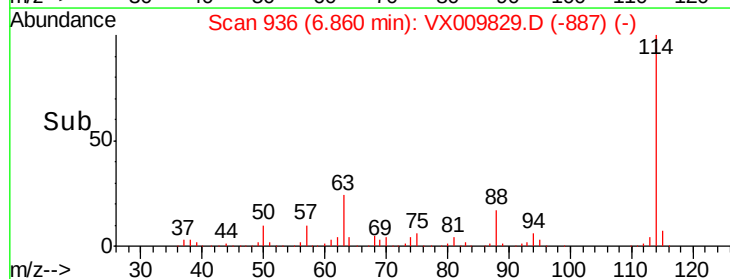
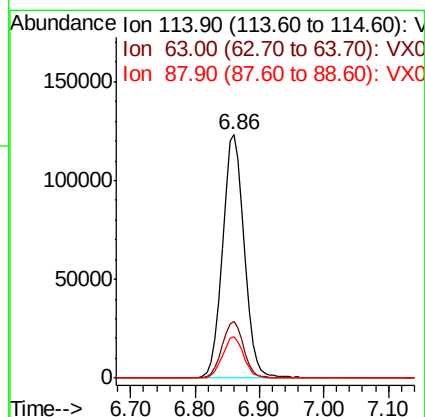
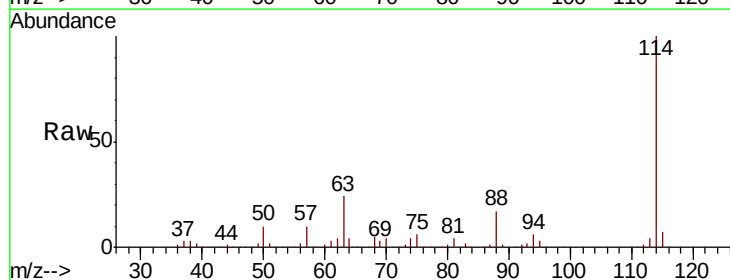
Tgt Ion: 114 Resp: 293713

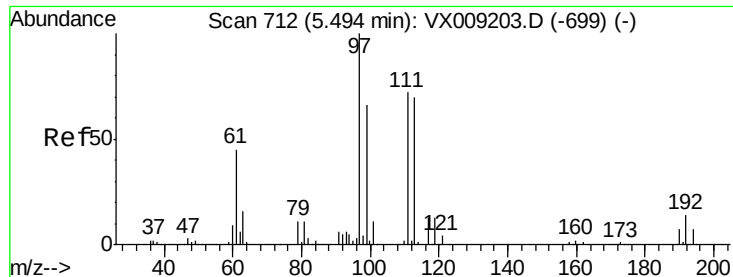
Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.6

88 17.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 47.627 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

EP1-SB-E-7R(17-20)

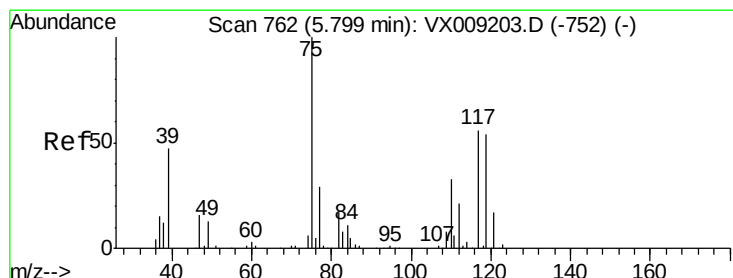
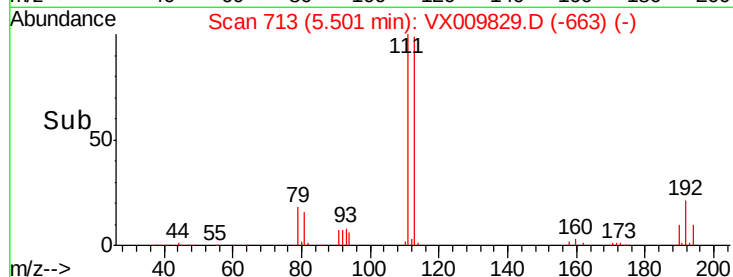
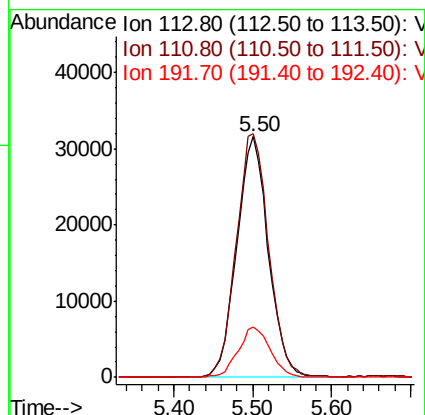
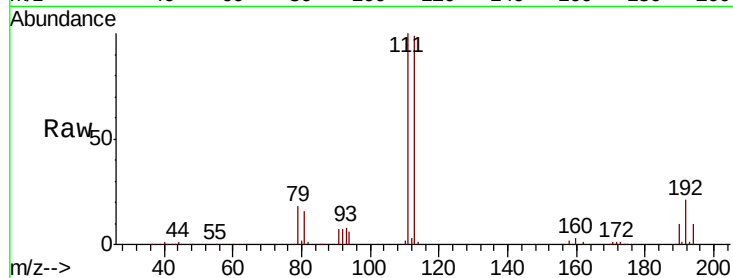
Tot Ion:113 Resp: 87939

Ion Ratio Lower Upper

113 100

111 103.9 82.8 124.2

192 21.3 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.191 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

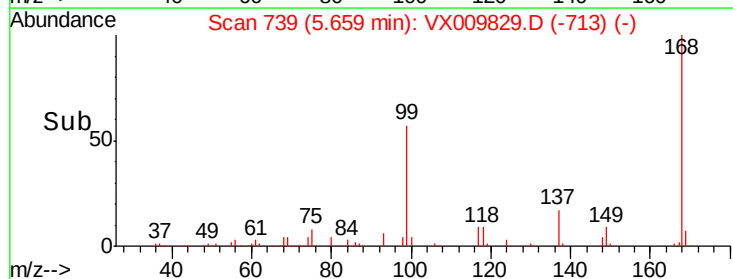
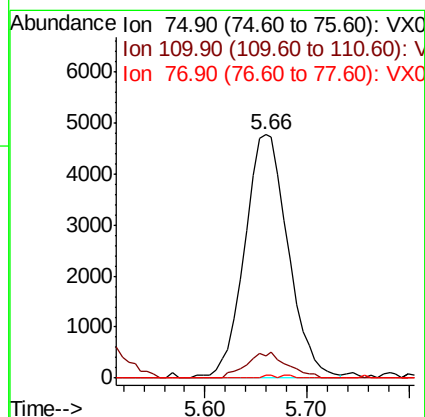
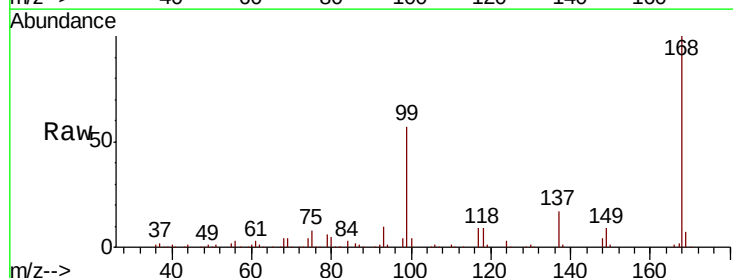
Tgt Ion: 75 Resp: 14170

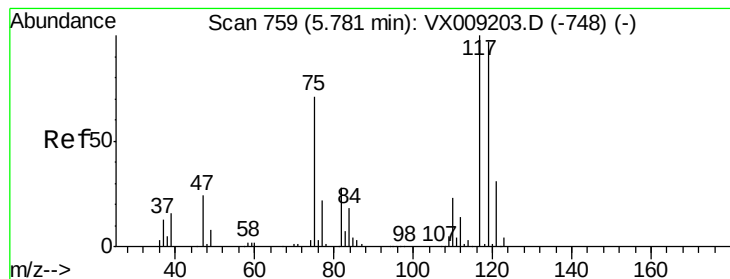
Ion Ratio Lower Upper

75 100

110 9.8 16.9 50.6#

77 0.3 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.977 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009829.D

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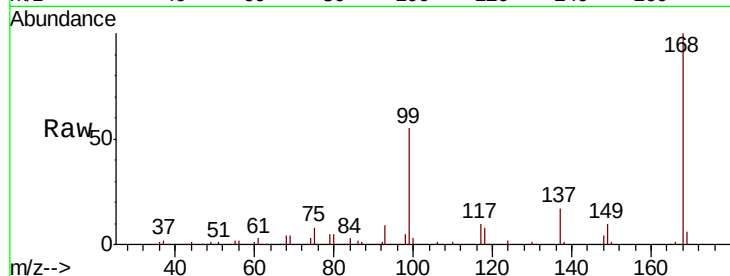
Tot Ion:117 Resp: 17302

Ion Ratio Lower Upper

117 100

119 4.9 77.5 116.3#

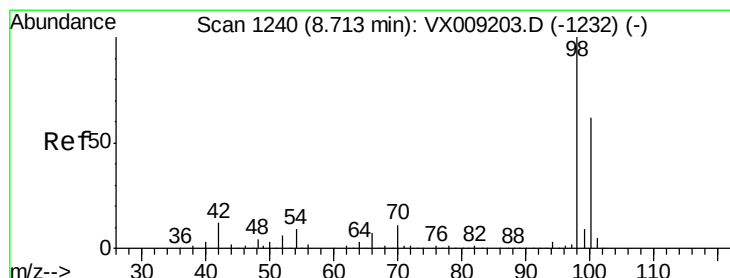
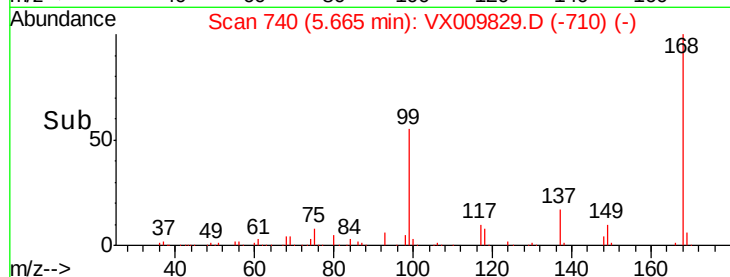
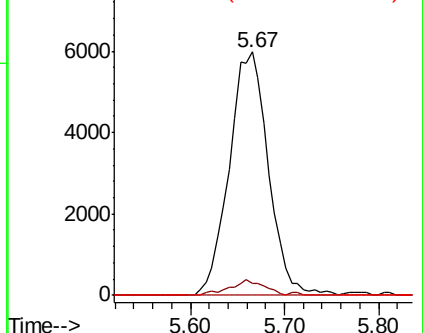
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.957 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009829.D

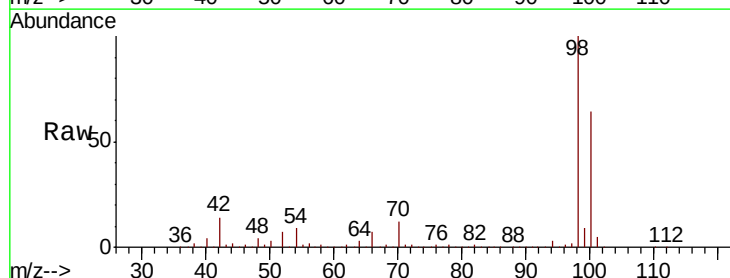
Acq: 23 May 2019 02:04

Tgt Ion: 98 Resp: 372398

Ion Ratio Lower Upper

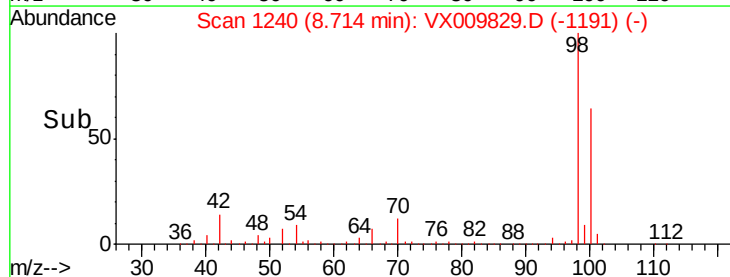
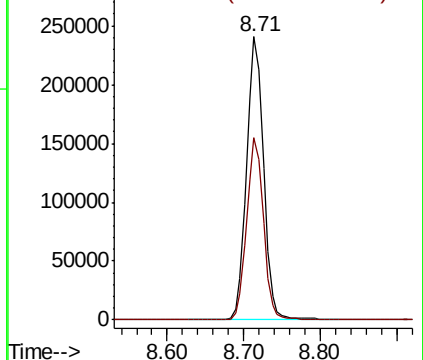
98 100

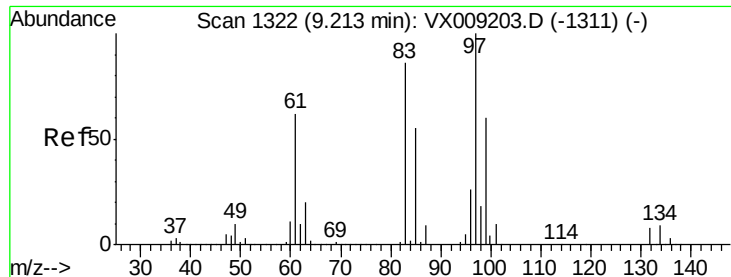
100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

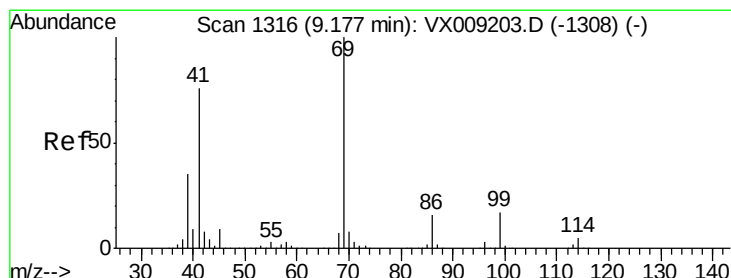
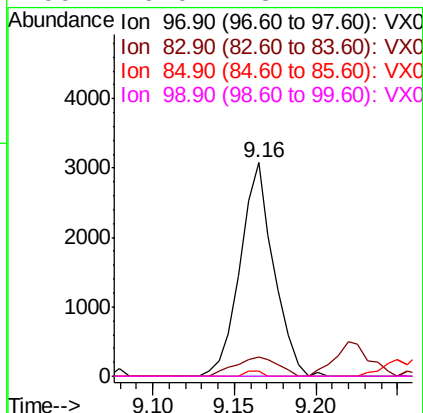
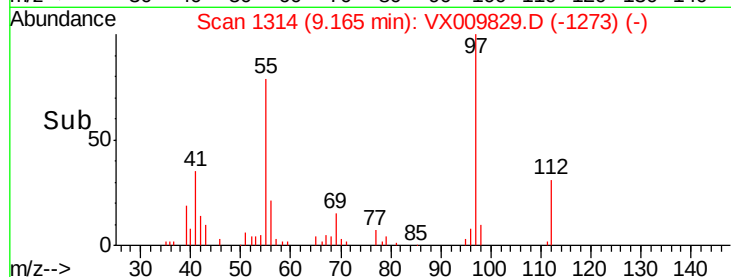
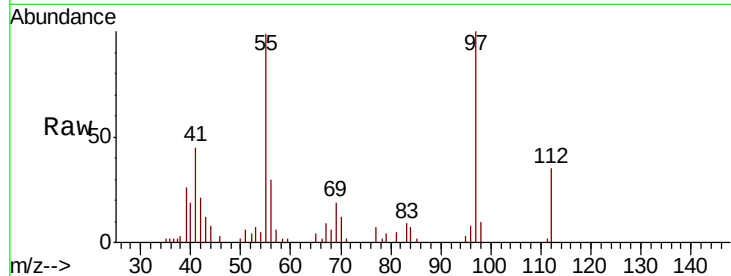




#55
 1,1,2-Trichloroethane
 Concen: 2.103 ug/l
 RT: 9.16 min Scan# 1314
 Delta R.T. -0.05 min
 Lab File: VX009829.D
 Acq: 23 May 2019 02:04

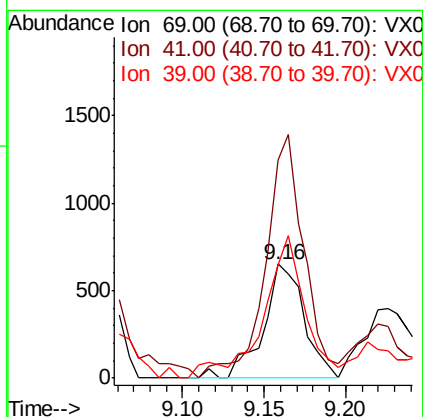
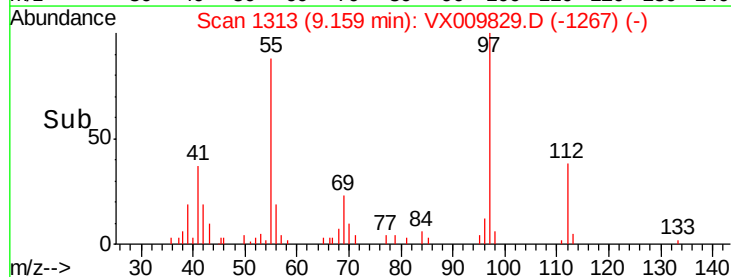
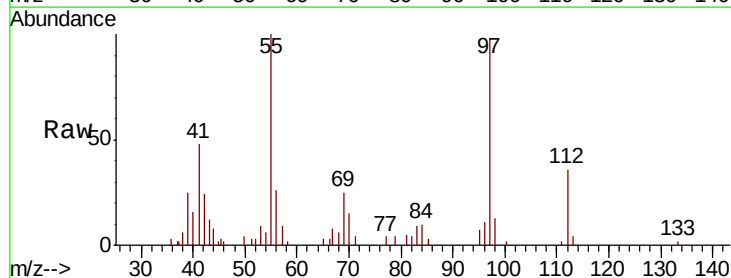
Instrument :
 MSVOA_X
 ClientSampleId :
 EP1-SB-E-7R(17-20)

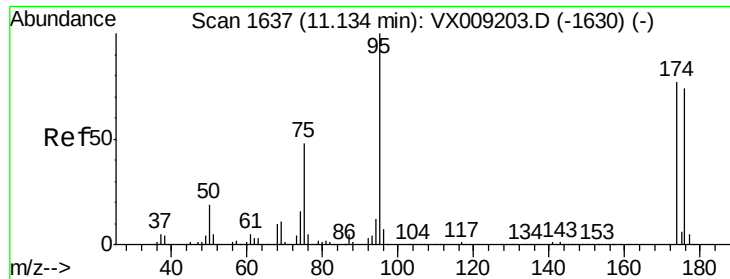
Tot Ion: 97 Resp: 4405
 Ion Ratio Lower Upper
 97 100
 83 8.8 68.9 103.3#
 85 2.2 43.8 65.6#
 99 0.0 48.2 72.2#



#56
 Ethyl methacrylate
 Concen: 0.301 ug/l
 RT: 9.16 min Scan# 1313
 Delta R.T. -0.02 min
 Lab File: VX009829.D
 Acq: 23 May 2019 02:04

Tgt Ion: 69 Resp: 1124
 Ion Ratio Lower Upper
 69 100
 41 203.1 60.6 90.8#
 39 128.6 28.2 42.4#





#62

4-Bromofluorobenzene

Concen: 52.353 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

EP1-SB-E-7R(17-20)

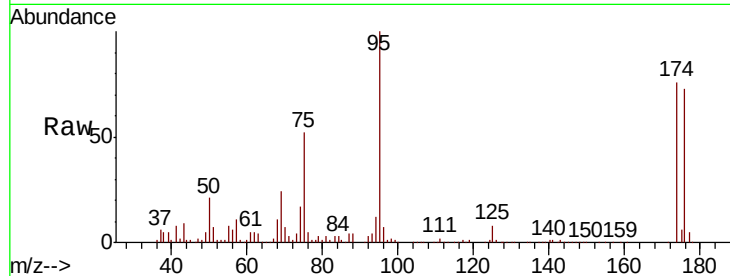
Tot Ion: 95 Resp: 141804

Ion Ratio Lower Upper

95 100

174 77.1 0.0 161.6

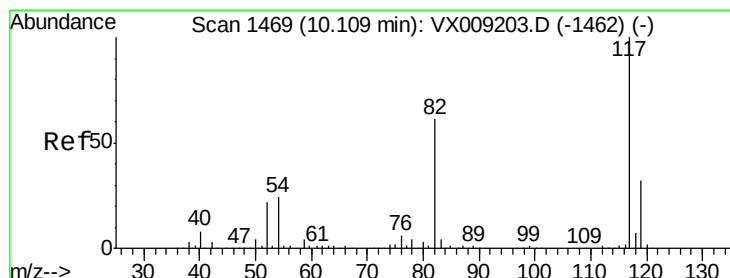
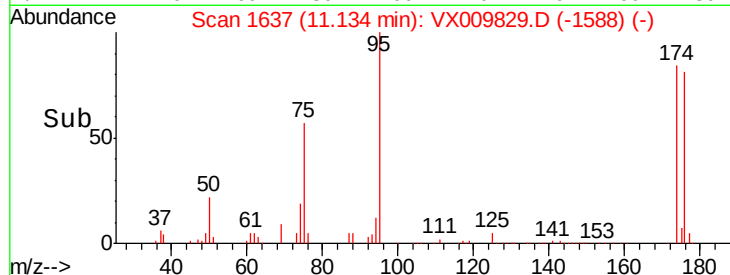
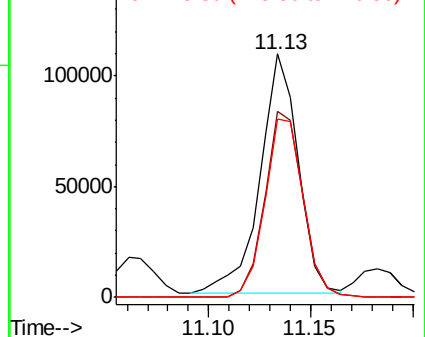
176 75.1 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009829.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009829.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009829.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

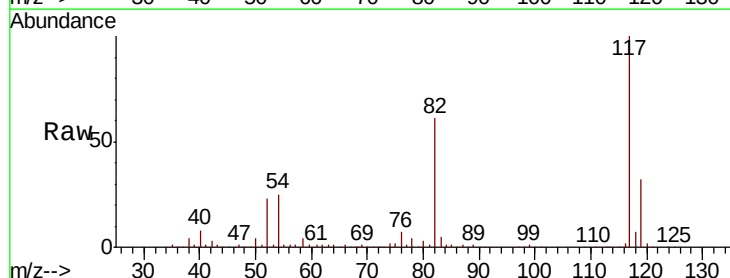
Tgt Ion: 117 Resp: 267637

Ion Ratio Lower Upper

117 100

82 60.9 48.8 73.2

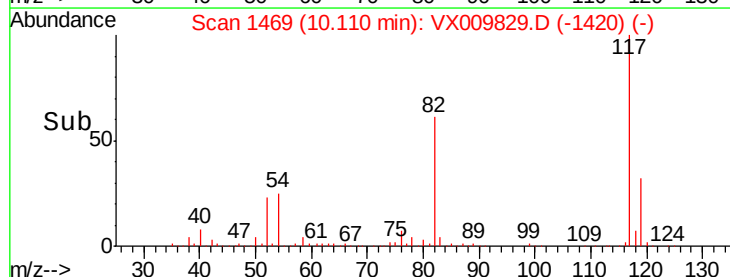
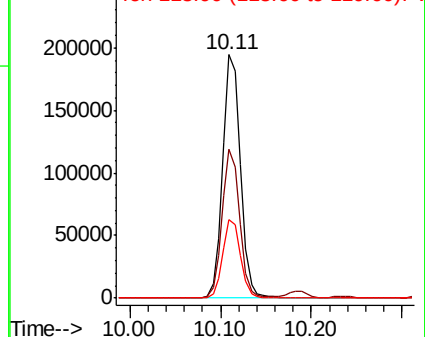
119 32.2 25.8 38.6

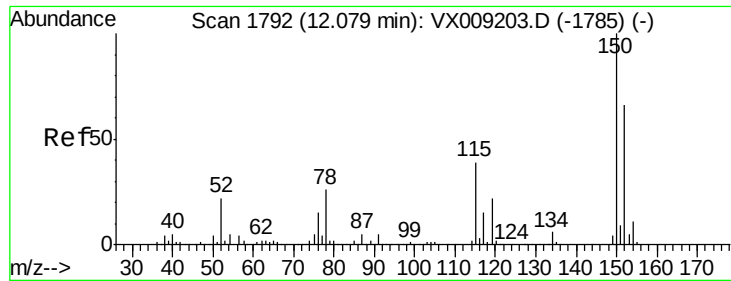


Abundance Ion 116.90 (116.60 to 117.60): VX009829.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009829.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009829.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

EP1-SB-E-7R(17-20)

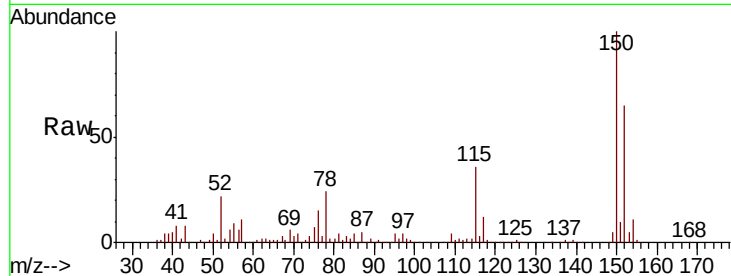
Tot Ion:152 Resp: 131069

Ion Ratio Lower Upper

152 100

115 58.5 41.2 123.6

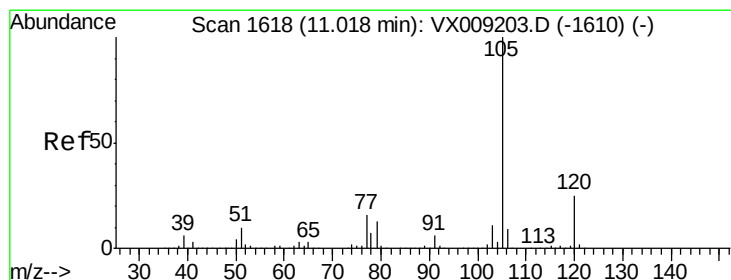
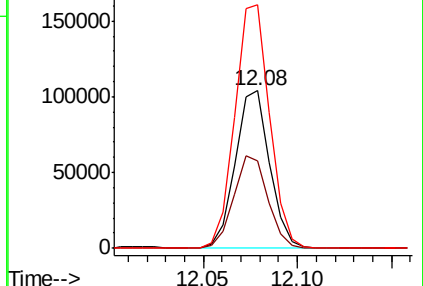
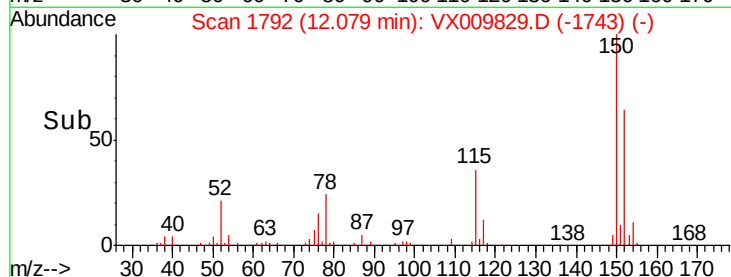
150 157.4 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 8.250 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX009829.D

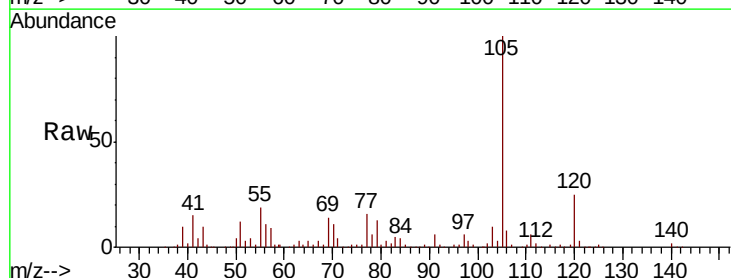
Acq: 23 May 2019 02:04

Tgt Ion:105 Resp: 78631

Ion Ratio Lower Upper

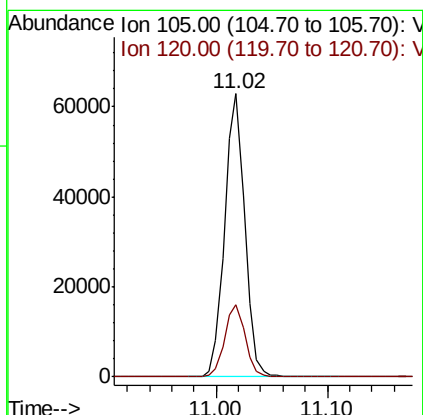
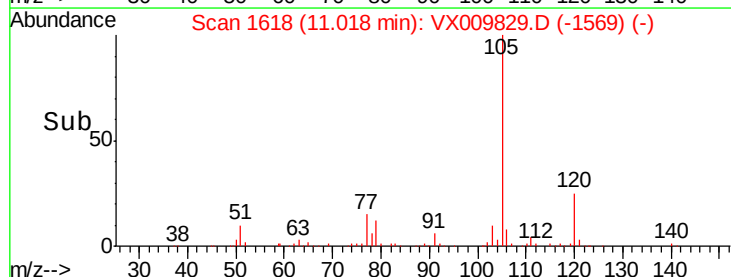
105 100

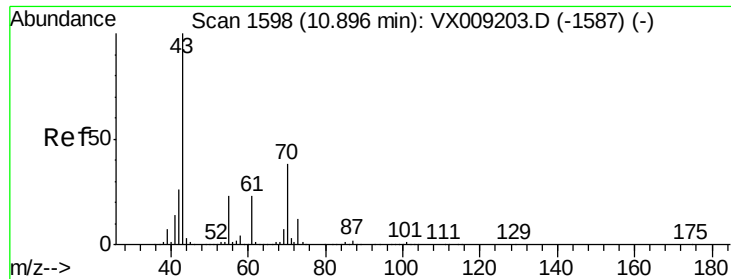
120 25.9 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 16.316 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

EP1-SB-E-7R(17-20)

Tot Ion: 43 Resp: 90665

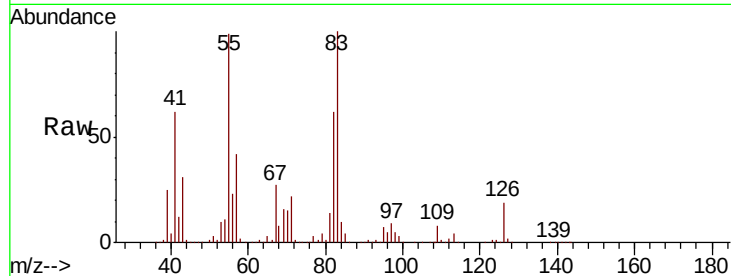
Ion Ratio Lower Upper

43 100

70 60.5 30.0 45.0#

55 264.6 17.9 26.9#

61 0.0 18.4 27.6#

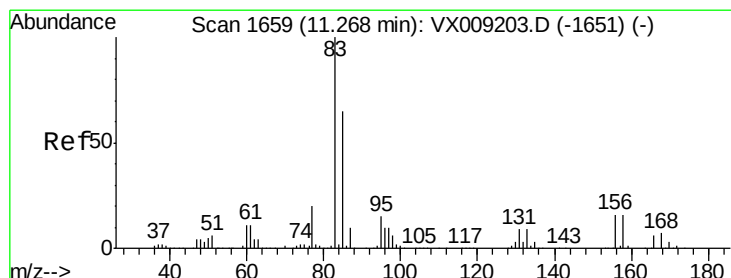
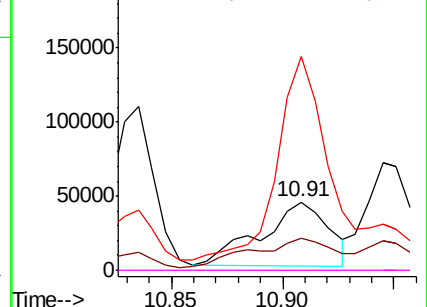
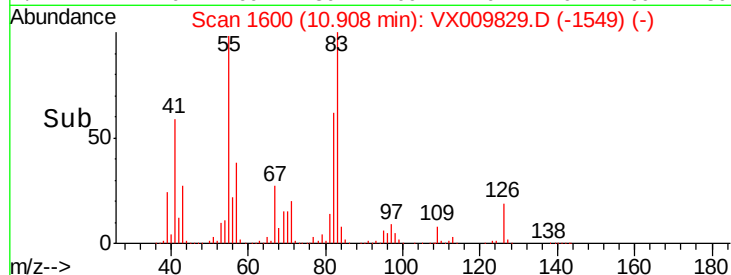


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#75

1,1,2,2-Tetrachloroethane

Concen: 11.710 ug/l

RT: 11.27 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

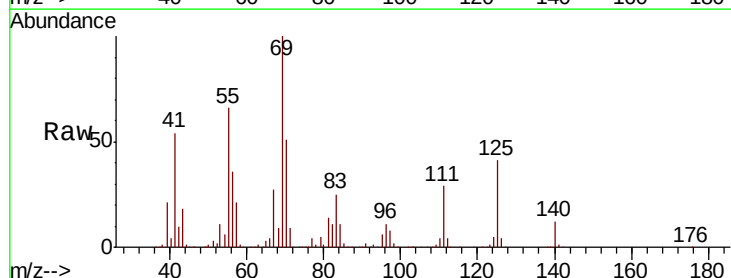
Tgt Ion: 83 Resp: 41607

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

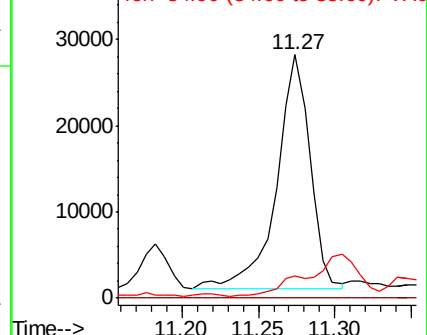
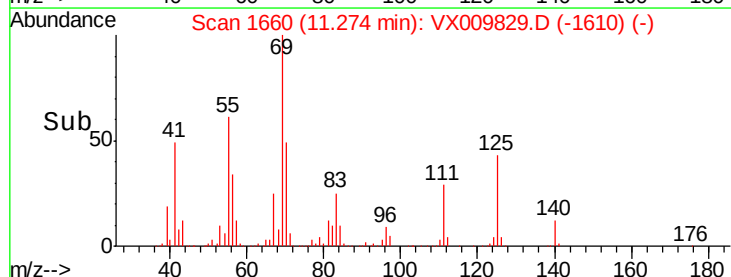
85 0.0 32.0 96.2#

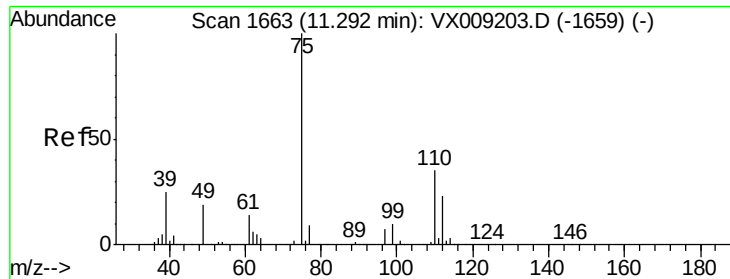


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

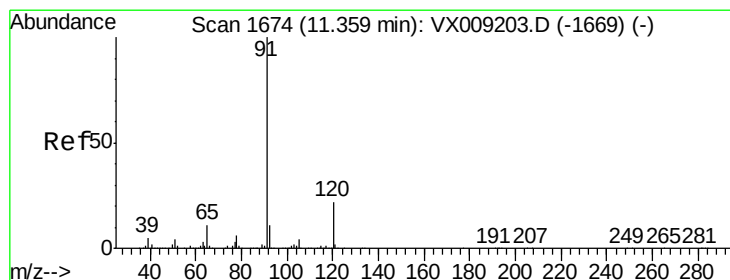
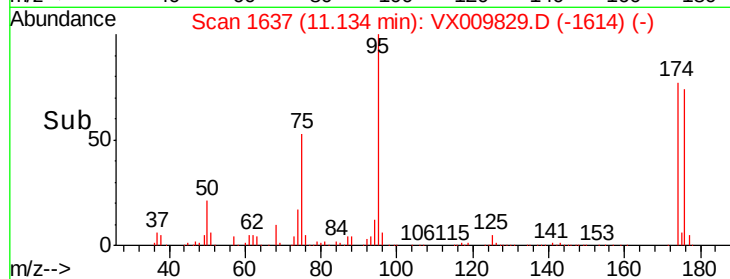
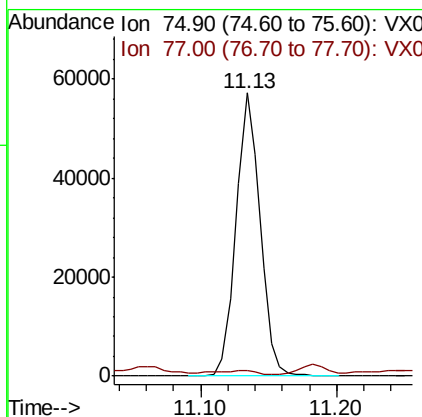
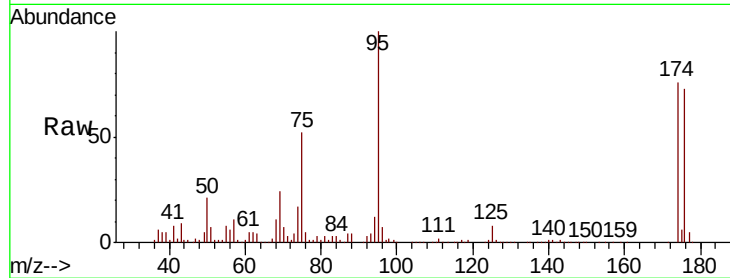




#76
1,2,3-Trichloropropane
Concen: 23.014 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009829.D
Acq: 23 May 2019 02:04

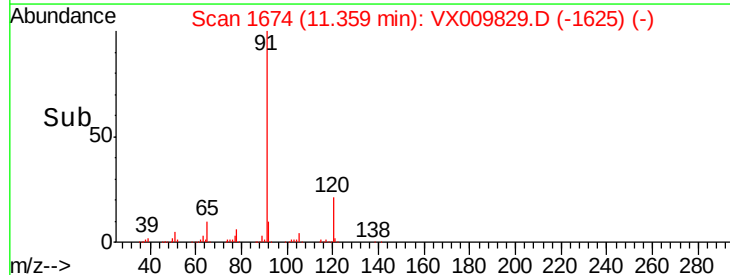
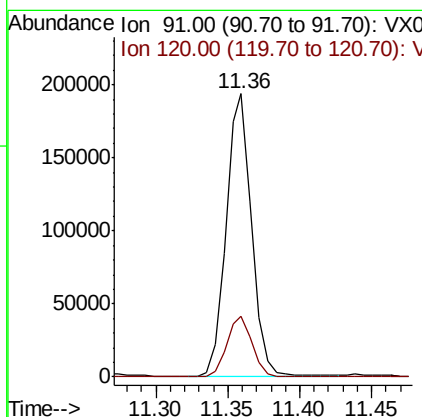
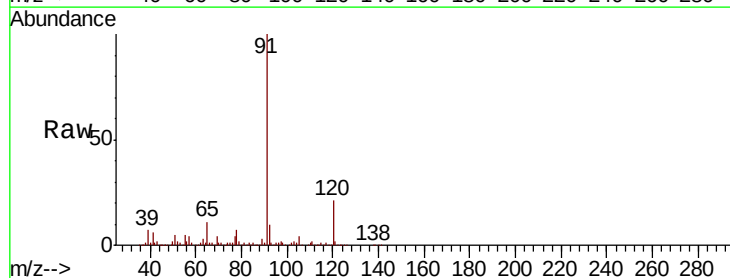
Instrument :
MSVOA_X
ClientSampleId :
EP1-SB-E-7R(17-20)

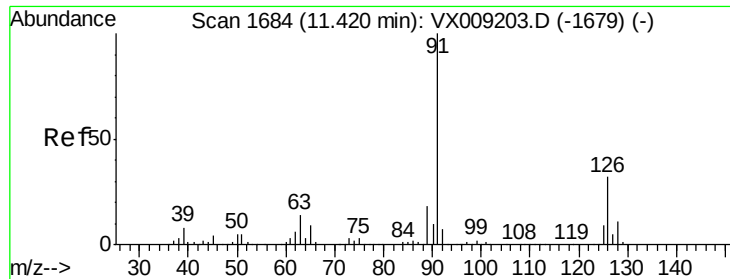
Tot Ion: 75 Resp: 69969
Ion Ratio Lower Upper
75 100
77 2.5 22.1 66.1#



#78
n-propylbenzene
Concen: 22.112 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX009829.D
Acq: 23 May 2019 02:04

Tgt Ion: 91 Resp: 240686
Ion Ratio Lower Upper
91 100
120 21.3 11.0 33.0

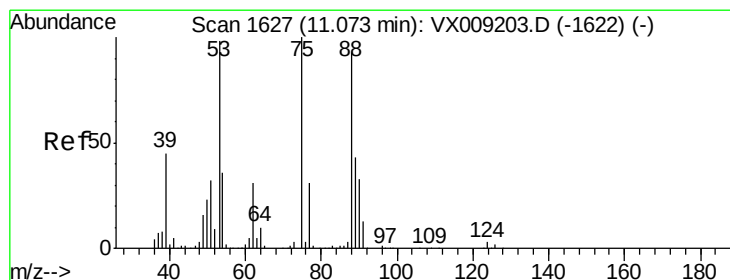
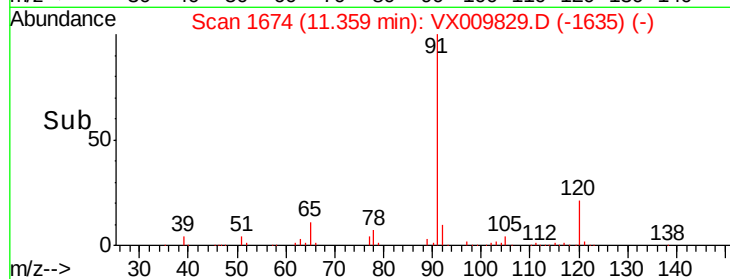
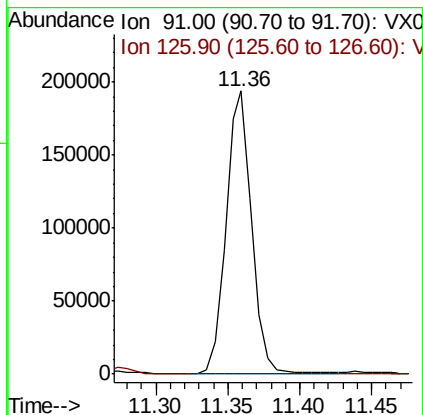
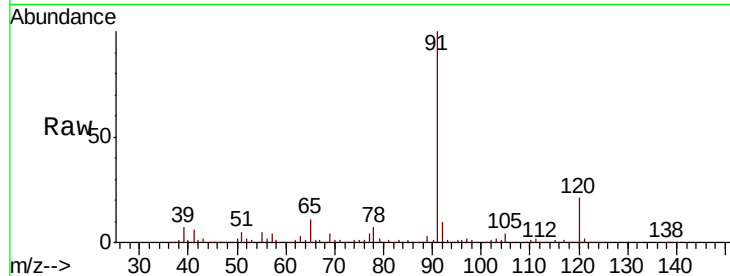




#79
2-Chlorotoluene
Concen: 35.840 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. -0.06 min
Lab File: VX009829.D
Acq: 23 May 2019 02:04

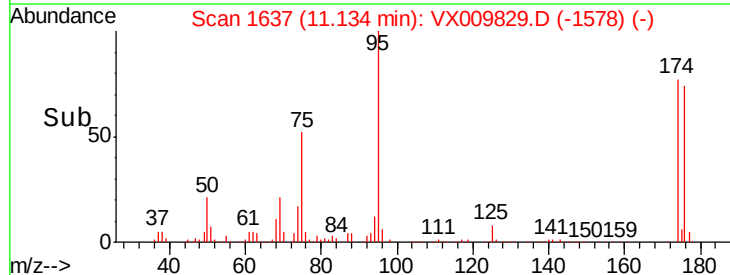
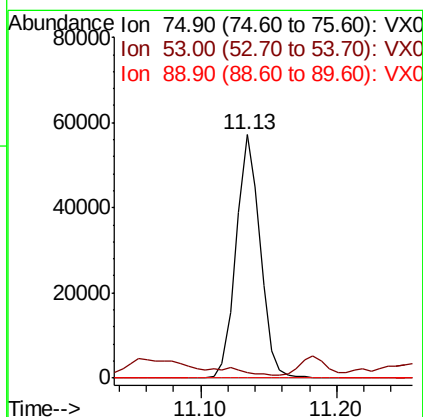
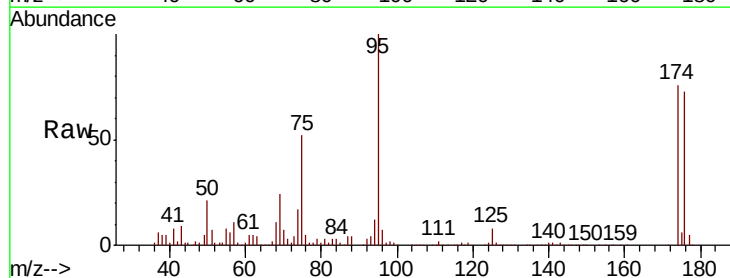
Instrument :
MSVOA_X
ClientSampleId :
EP1-SB-E-7R(17-20)

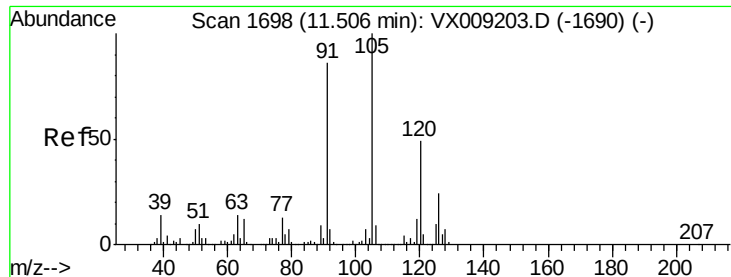
Tot Ion: 91 Resp: 240686
Ion Ratio Lower Upper
91 100
126 0.1 16.3 48.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.884 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX009829.D
Acq: 23 May 2019 02:04

Tgt Ion: 75 Resp: 69969
Ion Ratio Lower Upper
75 100
53 0.0 79.0 118.6#
89 0.0 34.7 52.1#





#82

4-Chlorotoluene

Concen: 31.725 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.15 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

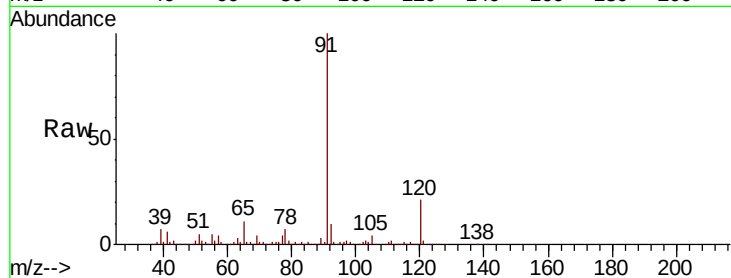
EP1-SB-E-7R(17-20)

Tot Ion: 91 Resp: 240686

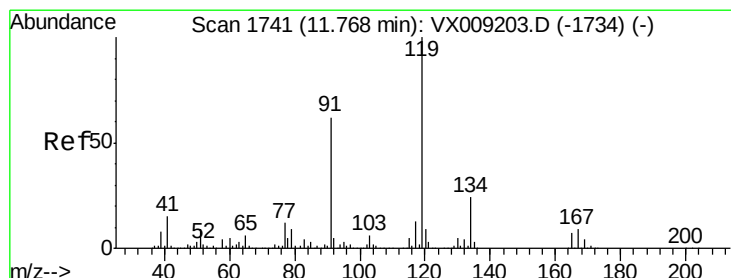
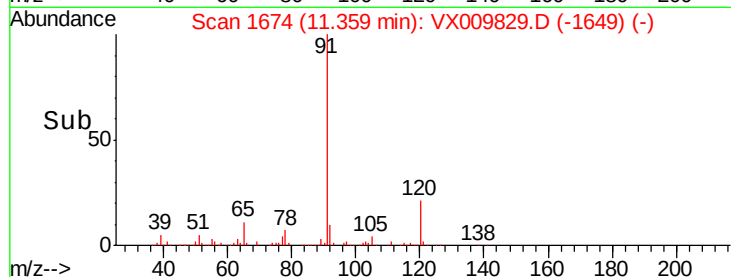
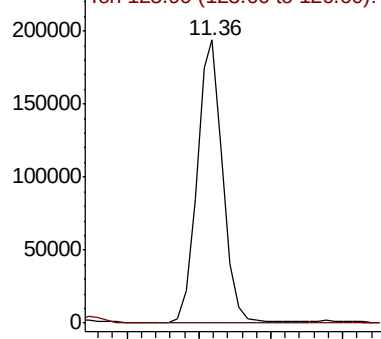
Ion Ratio Lower Upper

91 100

126 0.1 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): VX009203.D (-1690) (-)



#83

tert-Butylbenzene

Concen: 2.237 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

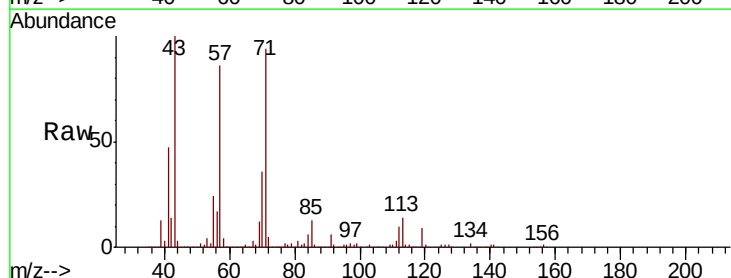
Tgt Ion: 119 Resp: 17461

Ion Ratio Lower Upper

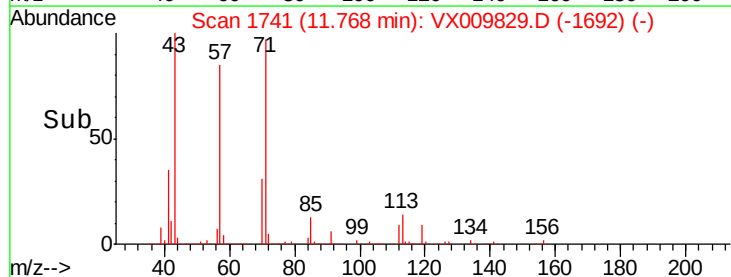
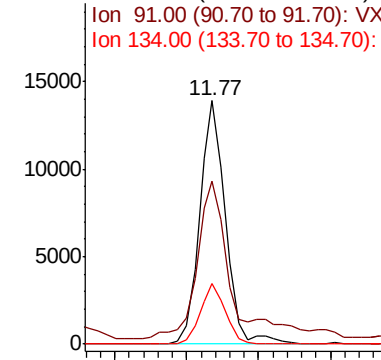
119 100

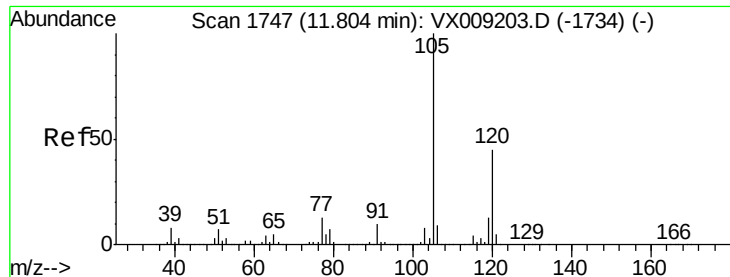
91 71.7 29.5 88.5

134 24.0 11.4 34.1



Abundance Ion 119.00 (118.70 to 119.70): VX009203.D (-1734) (-)





#84

1,2,4-Trimethylbenzene

Concen: 0.506 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

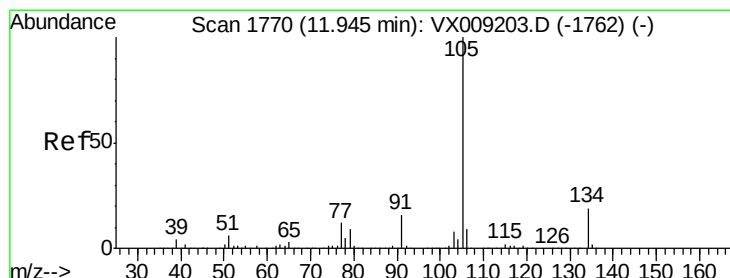
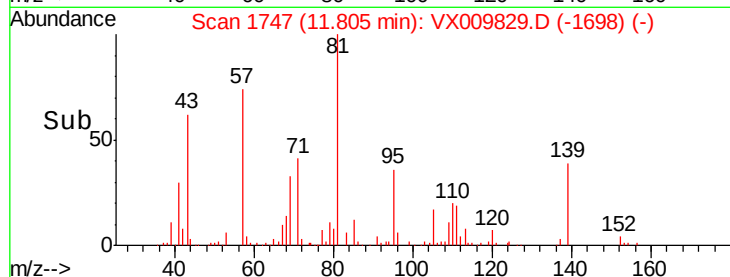
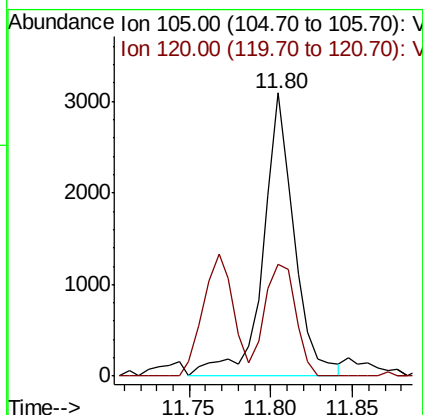
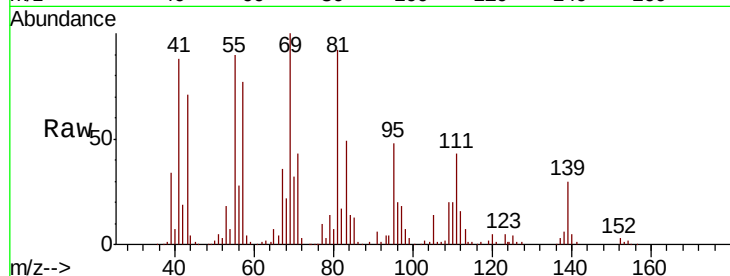
EP1-SB-E-7R(17-20)

Tot Ion:105 Resp: 4073

Ion Ratio Lower Upper

105 100

120 39.8 22.0 66.0



#85

sec-Butylbenzene

Concen: 13.920 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX009829.D

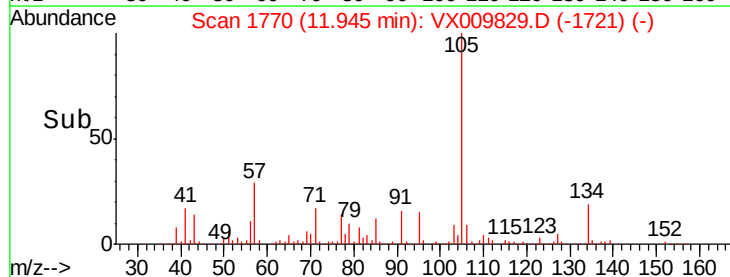
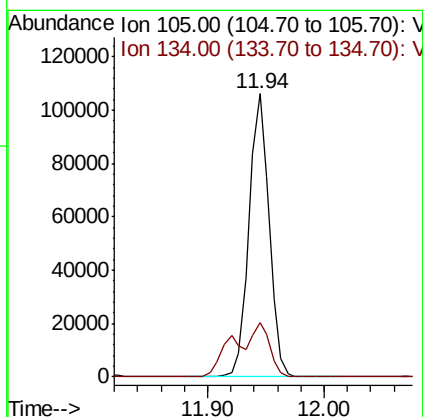
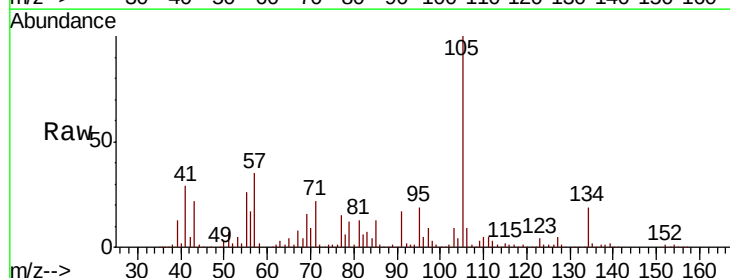
Acq: 23 May 2019 02:04

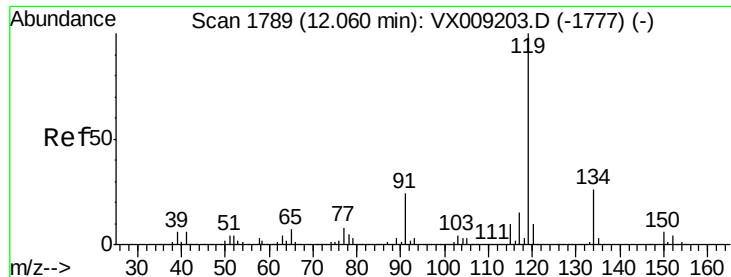
Tgt Ion:105 Resp: 128843

Ion Ratio Lower Upper

105 100

134 17.0 9.7 28.9

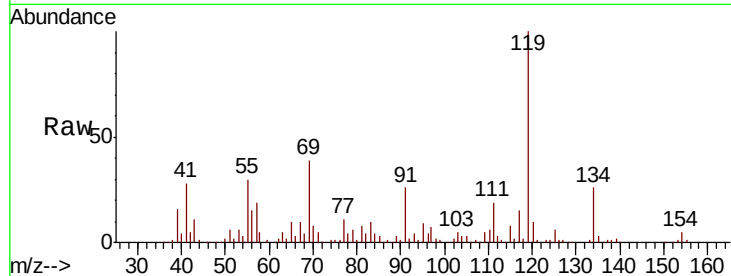




#86
p-Isopropyltoluene
Concen: 4.153 ug/l
RT: 12.23 min Scan# 1817
Delta R.T. 0.17 min
Lab File: VX009829.D
Acq: 23 May 2019 02:04

Instrument :
MSVOA_X
ClientSampleId :
EP1-SB-E-7R(17-20)

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.9	38.7
91	26.2	11.8	35.4

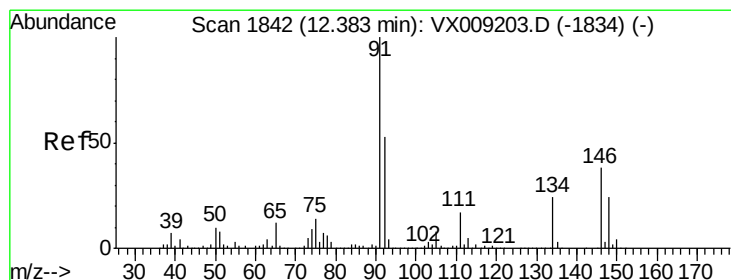
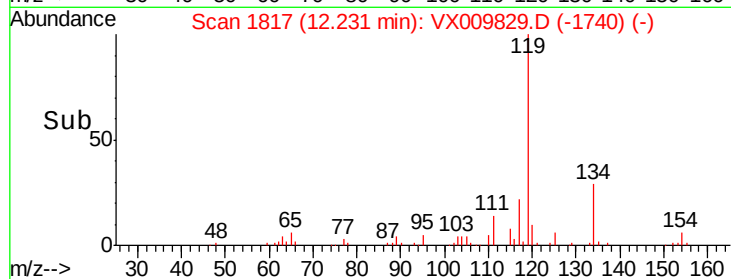
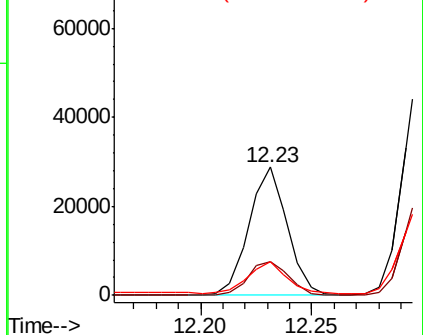


Abundance

Ion 119.00 (118.70 to 119.70): V

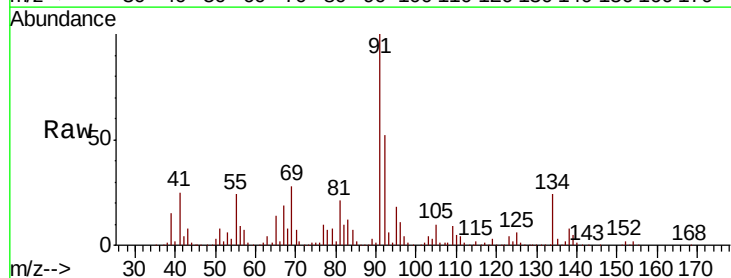
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89
n-Butylbenzene
Concen: 12.489 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX009829.D
Acq: 23 May 2019 02:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	47.2	26.5	79.5
134	33.5	12.4	37.2

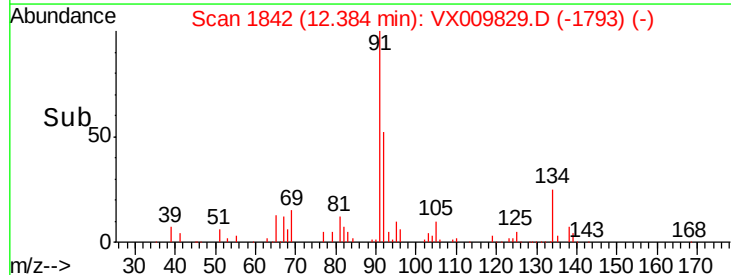
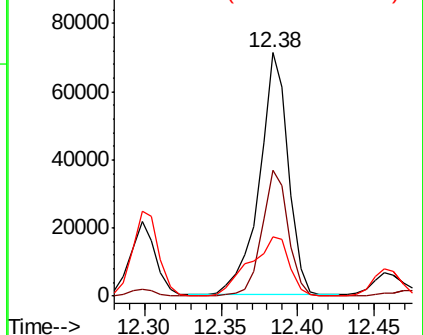


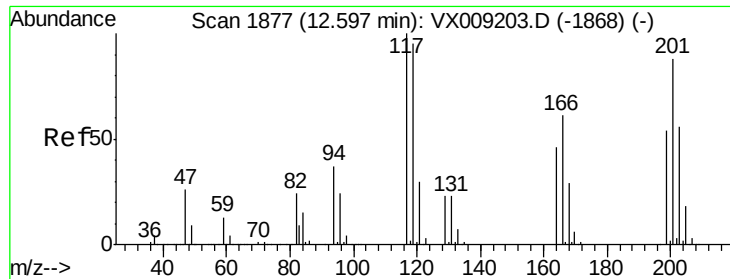
Abundance

Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 12.892 ug/l

RT: 12.66 min Scan# 1888

Delta R.T. 0.07 min

Lab File: VX009829.D

Acq: 23 May 2019 02:04

Instrument :

MSVOA_X

ClientSampleId :

EP1-SB-E-7R(17-20)

Tot Ion:117 Resp: 18275

Ion Ratio Lower Upper

117 100

201 0.0 42.3 126.9#

