

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081920\
 Data File : VX017986.D
 Acq On : 19 Aug 2020 15:41
 Operator : JC/SP
 Sample : L3718-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB181-GW-338-340

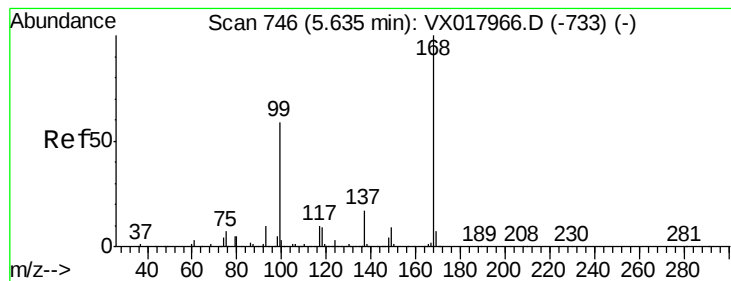
Quant Time: Aug 19 16:44:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081920W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 05:36:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	479387	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	739929	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	685312	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	309067	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	324724	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	
35) Dibromofluoromethane	5.47	113	259827	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
50) Toluene-d8	8.70	98	880897	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
62) 4-Bromofluorobenzene	11.12	95	316922	44.06	ug/l	0.00
Spiked Amount			Recovery	=	88.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	336	1.035	ug/l #	47
3) Chloromethane	1.32	50	1929	0.294	ug/l	92
4) Vinyl Chloride	1.40	62	269	2.297	ug/l #	44
11) Tert butyl alcohol	3.02	59	455	0.335	ug/l #	1
13) Acrolein	2.27	56	218	0.304	ug/l #	10
16) Acetone	2.42	43	12473	4.512	ug/l	90
17) Carbon Disulfide	2.55	76	4580	0.437	ug/l	100
20) Methylene Chloride	2.83	84	1774	0.348	ug/l #	85
22) Diisopropyl ether	3.84	45	4341	0.269	ug/l #	72
36) 1,1-Dichloropropene	5.63	75	35901	5.797	ug/l #	52
38) Carbon Tetrachloride	5.62	117	48909	6.102	ug/l #	15
39) Methylcyclohexane	7.43	83	299	0.850	ug/l #	16
49) 1,4-Dioxane	7.68	88	233	1.919	ug/l #	59
76) 1,2,3-Trichloropropane	11.12	75	160067	24.353	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	160067	63.978	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.00 min

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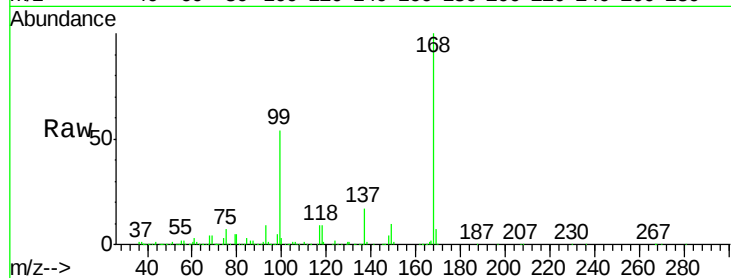
BP-VPB181-GW-338-340

Tgt Ion:168 Resp: 479387

Ion Ratio Lower Upper

168 100

99 54.4 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

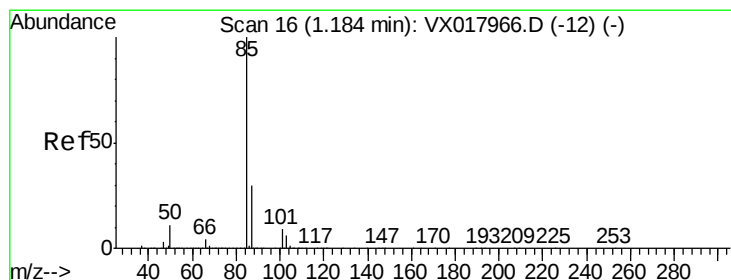
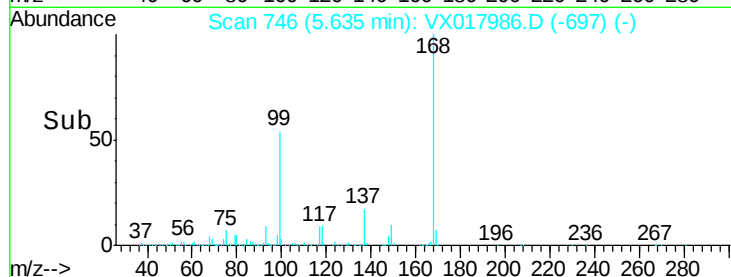
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.035 ug/l

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017986.D

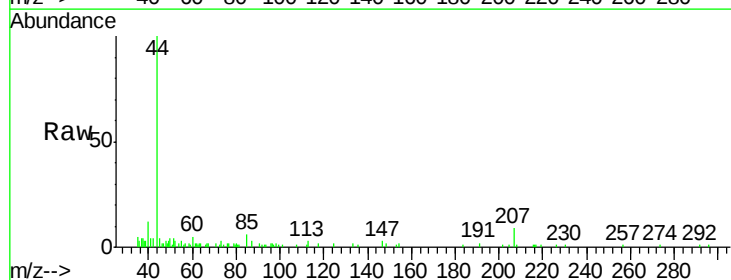
Acq: 19 Aug 2020 15:41

Tgt Ion: 85 Resp: 336

Ion Ratio Lower Upper

85 100

87 59.4 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

300

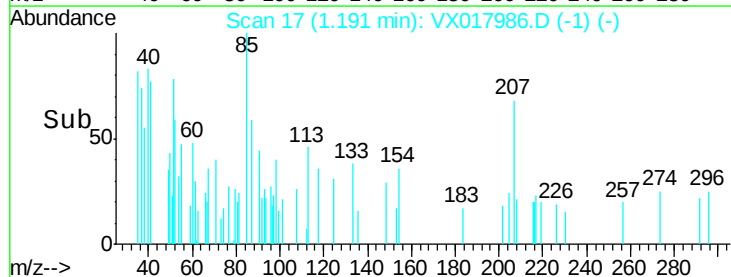
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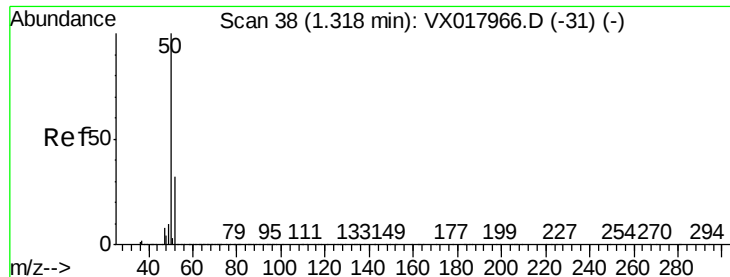
100

0

Time-->

1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.294 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.00 min

Lab File: VX017986.D

Acq: 19 Aug 2020 15:41

Instrument :

MSVOA_X

ClientSampleId :

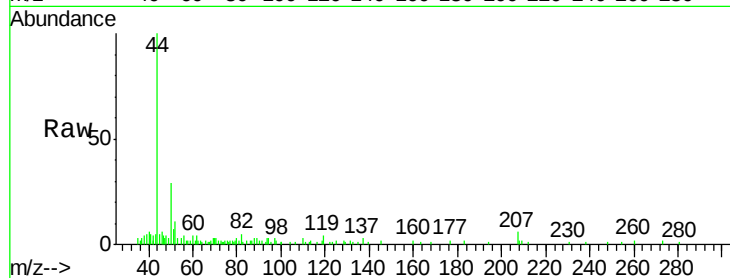
BP-VPB181-GW-338-340

Tgt Ion: 50 Resp: 1929

Ion Ratio Lower Upper

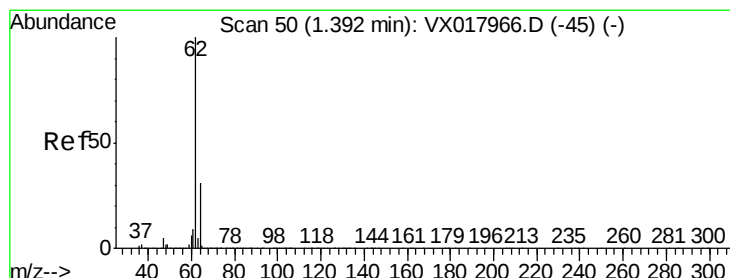
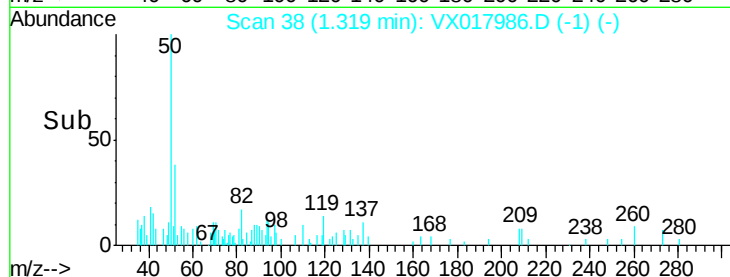
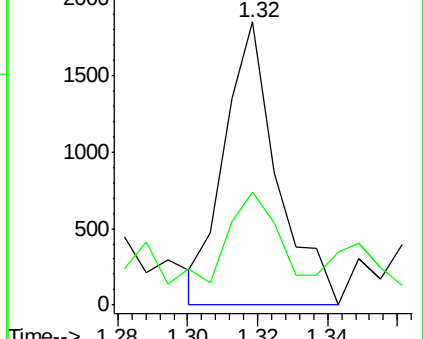
50 100

52 27.2 25.4 38.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 2.297 ug/l

RT: 1.40 min Scan# 52

Delta R.T. 0.01 min

Lab File: VX017986.D

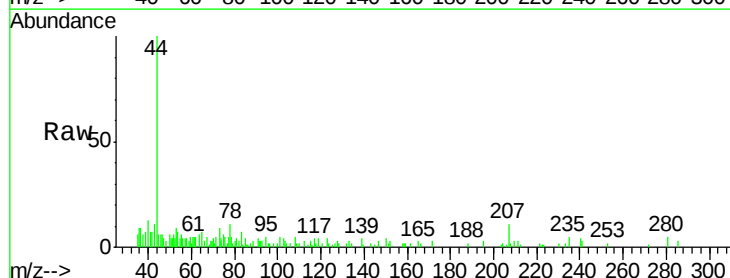
Acq: 19 Aug 2020 15:41

Tgt Ion: 62 Resp: 269

Ion Ratio Lower Upper

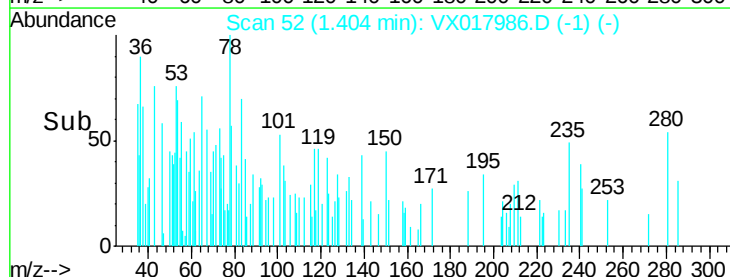
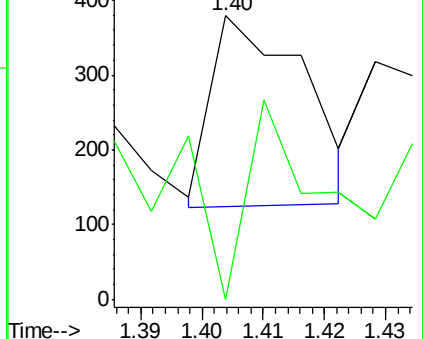
62 100

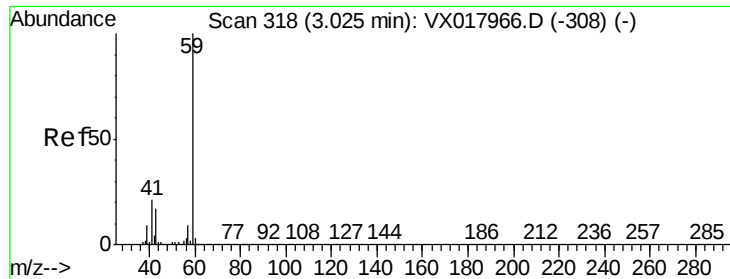
64 0.0 24.7 37.1#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

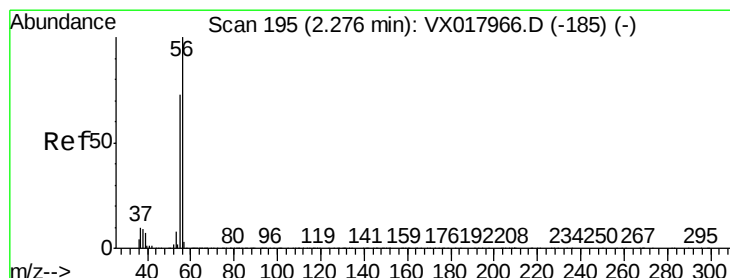
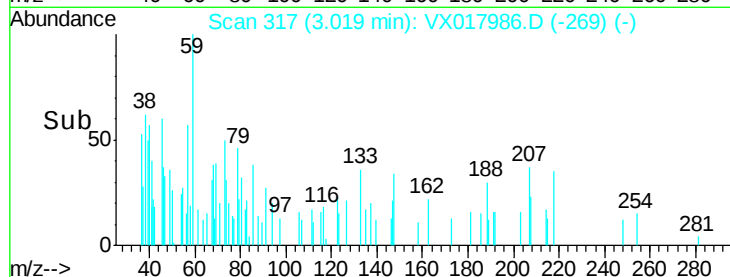
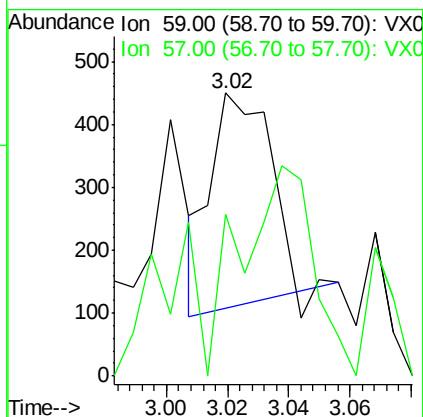
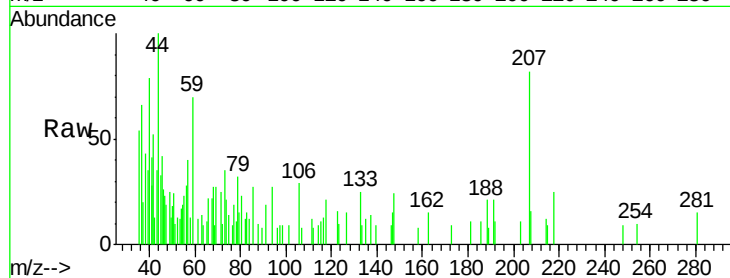




#11
Tert butyl alcohol
Concen: 0.335 ug/l
RT: 3.02 min Scan# 317
Delta R.T. -0.01 min
Lab File: VX017986.D
Acq: 19 Aug 2020 15:41

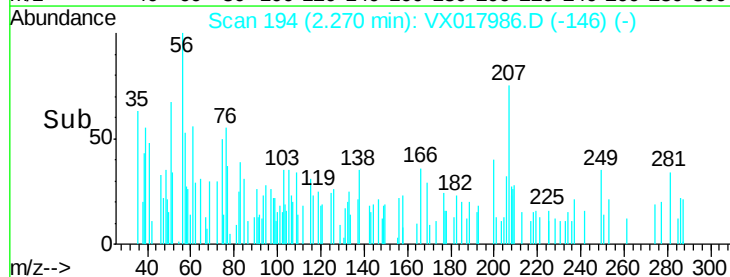
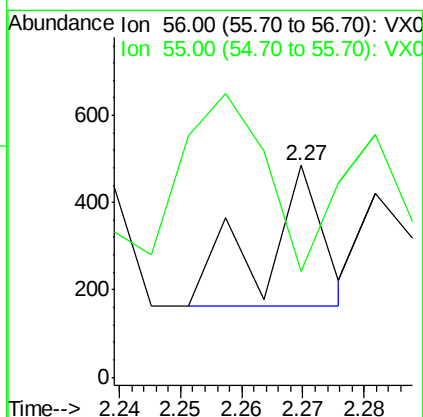
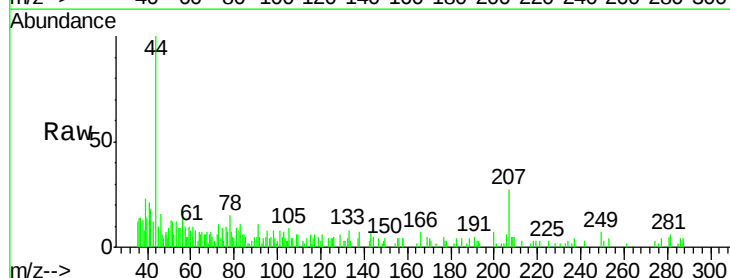
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB181-GW-338-340

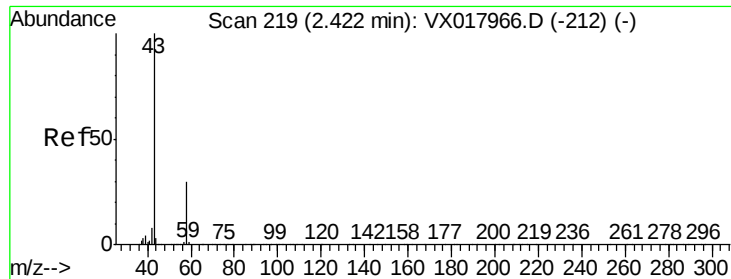
Tgt Ion: 59 Resp: 455
Ion Ratio Lower Upper
59 100
57 120.4 8.6 13.0#



#13
Acrolein
Concen: 0.304 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017986.D
Acq: 19 Aug 2020 15:41

Tgt Ion: 56 Resp: 218
Ion Ratio Lower Upper
56 100
55 148.6 58.2 87.4#

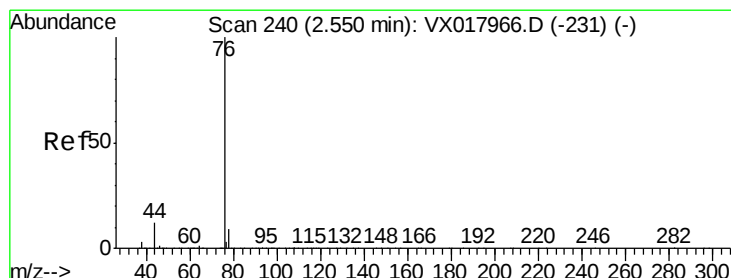
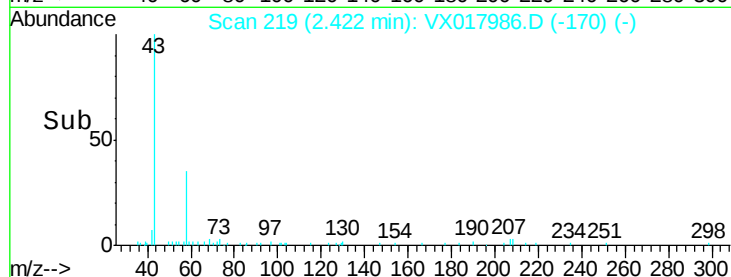
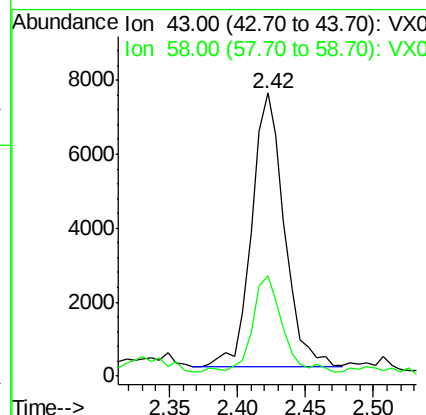
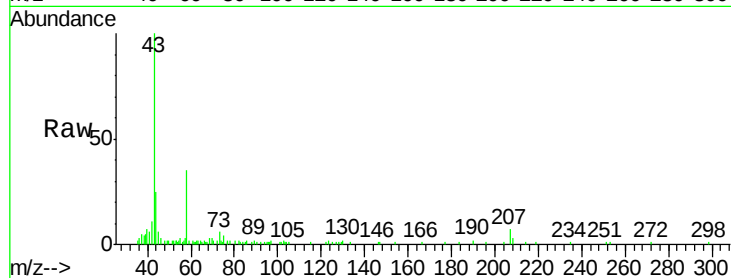




#16
Acetone
Concen: 4.512 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.00 min
Lab File: VX017986.D
Acq: 19 Aug 2020 15:41

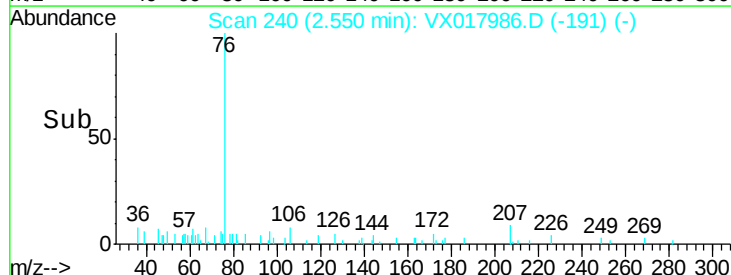
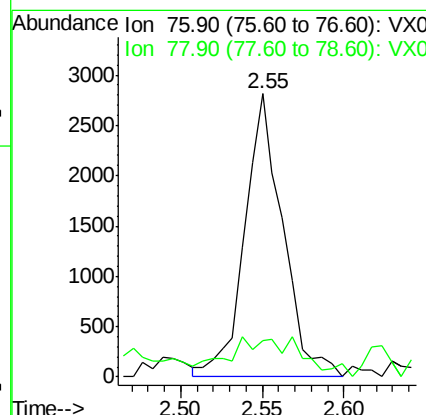
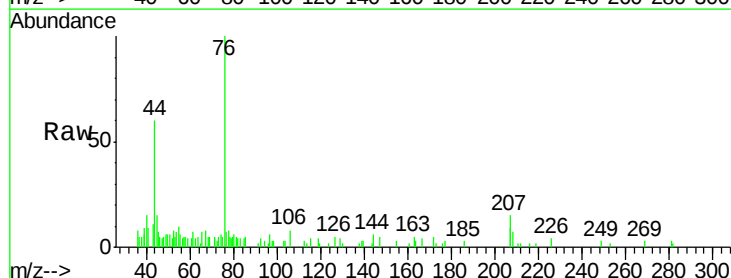
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB181-GW-338-340

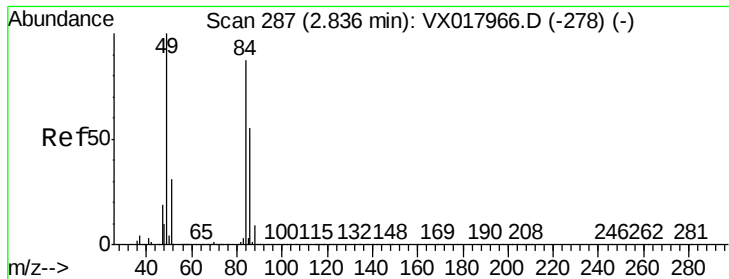
Tgt Ion: 43 Resp: 12473
Ion Ratio Lower Upper
43 100
58 35.1 23.8 35.8



#17
Carbon Disulfide
Concen: 0.437 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX017986.D
Acq: 19 Aug 2020 15:41

Tgt Ion: 76 Resp: 4580
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9

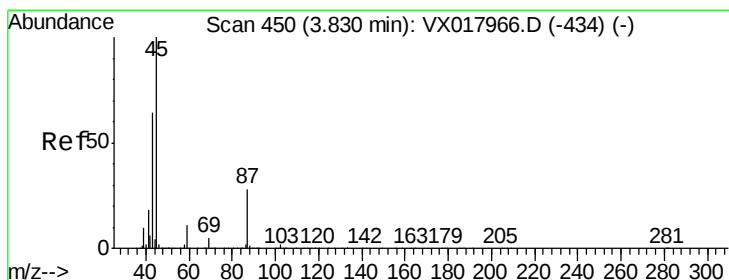
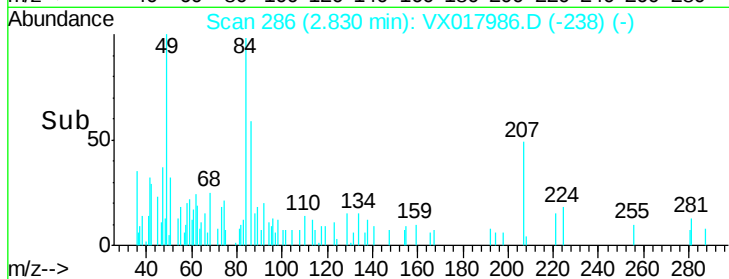
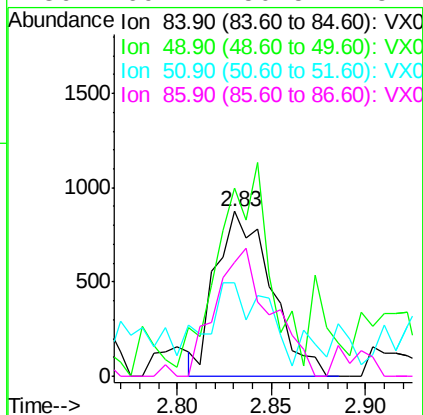
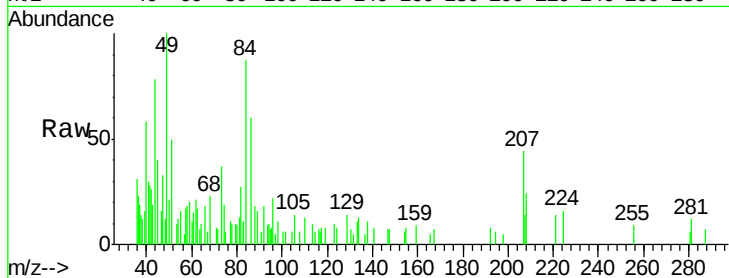




#20
Methylene Chloride
Concen: 0.348 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017986.D
Acq: 19 Aug 2020 15:41

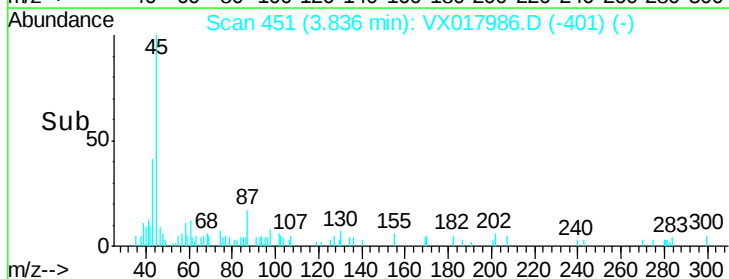
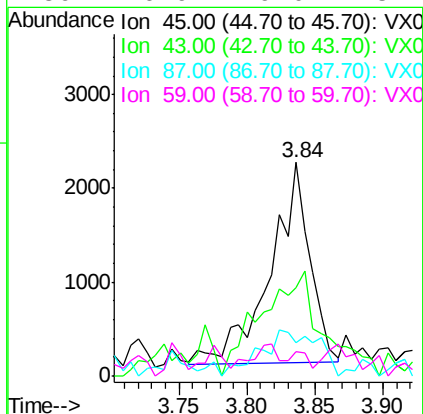
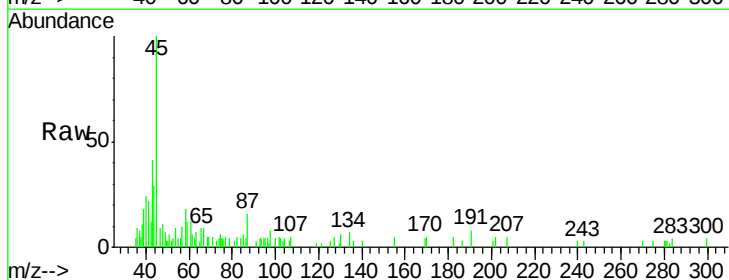
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB181-GW-338-340

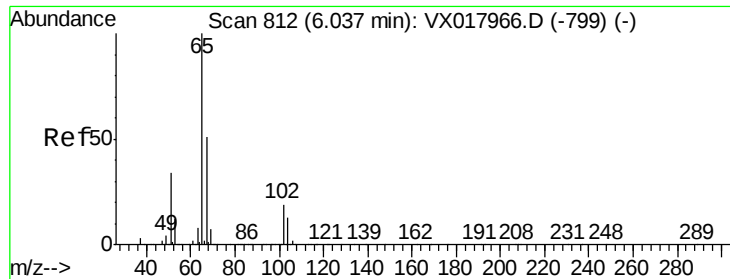
Tgt Ion:	84	Resp:	1774
Ion	Ratio	Lower	Upper
84	100		
49	94.0	91.8	137.6
51	25.8	27.8	41.8#
86	69.1	50.5	75.7



#22
Diisopropyl ether
Concen: 0.269 ug/l
RT: 3.84 min Scan# 451
Delta R.T. 0.01 min
Lab File: VX017986.D
Acq: 19 Aug 2020 15:41

Tgt Ion:	45	Resp:	4341
Ion	Ratio	Lower	Upper
45	100		
43	37.7	51.5	77.3#
87	16.7	22.6	33.8#
59	6.9	9.0	13.4#

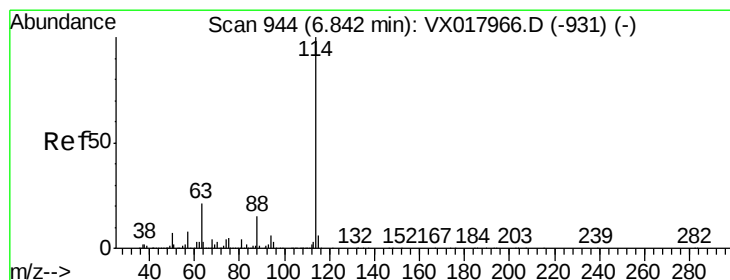
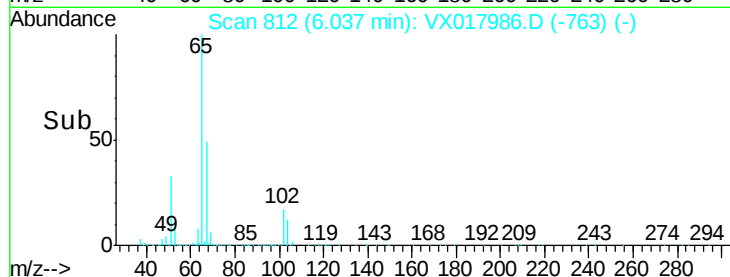
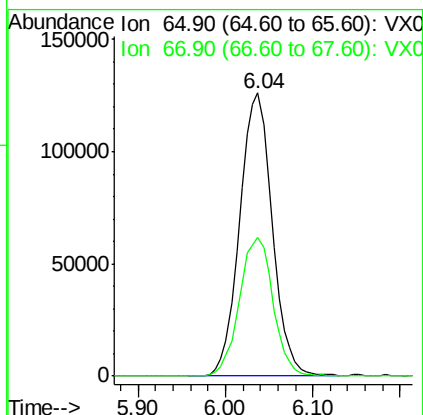
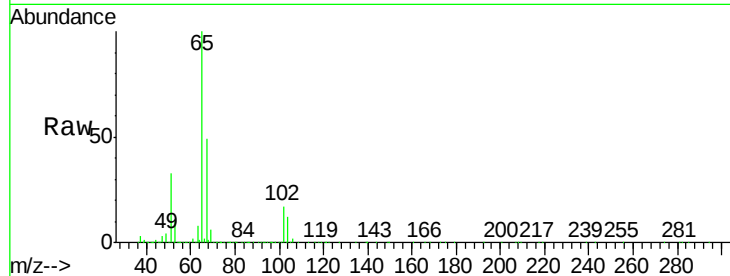




#33
 1,2-Dichloroethane-d4
 Concen: 46.208 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.00 min
 Lab File: VX017986.D
 Acq: 19 Aug 2020 15:41

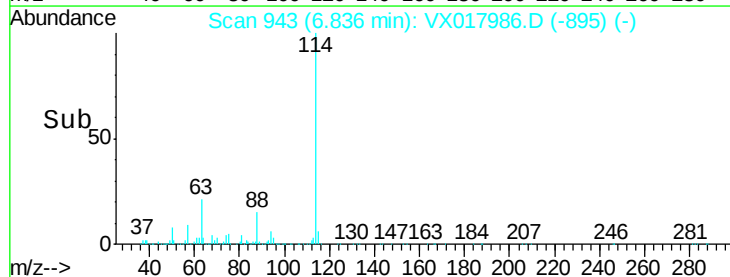
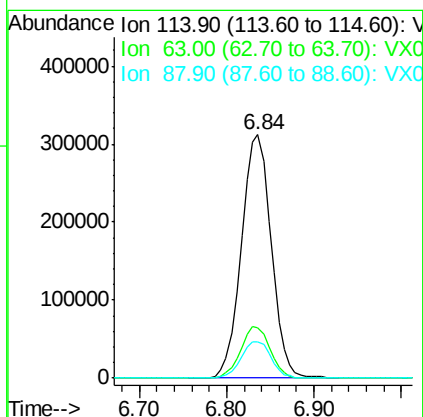
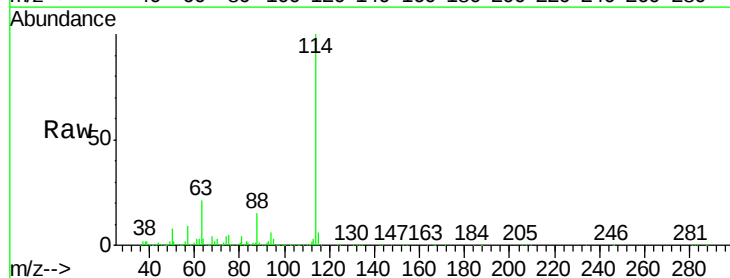
Instrument :
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 BP-VPB181-GW-338-340

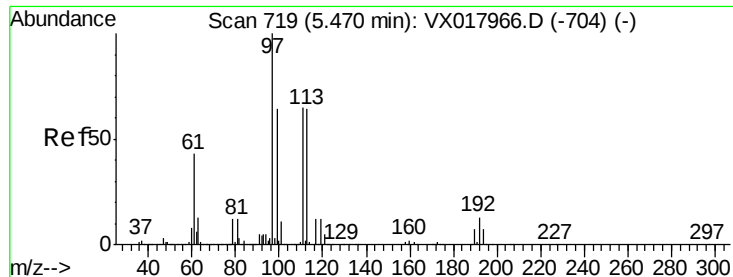
Tgt Ion: 65 Resp: 324724
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. -0.01 min
 Lab File: VX017986.D
 Acq: 19 Aug 2020 15:41

Tgt Ion: 114 Resp: 739929
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.6
 88 15.1 0.0 30.2

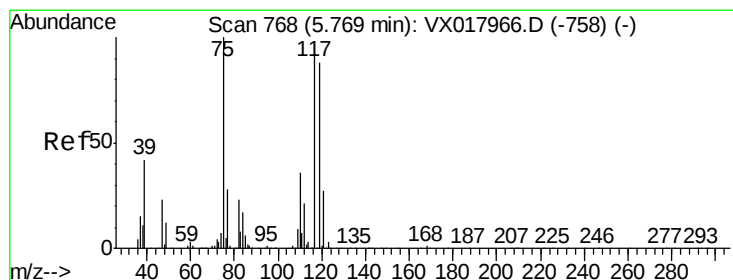
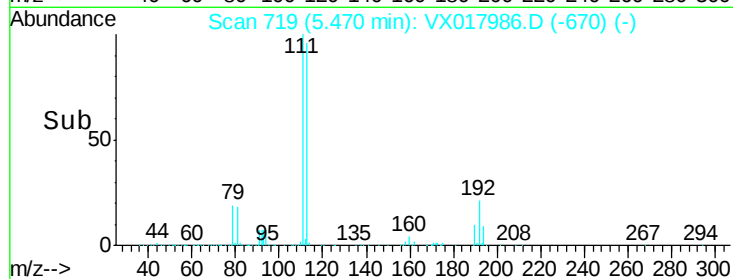
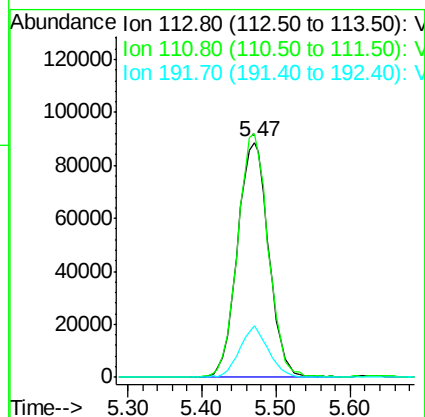
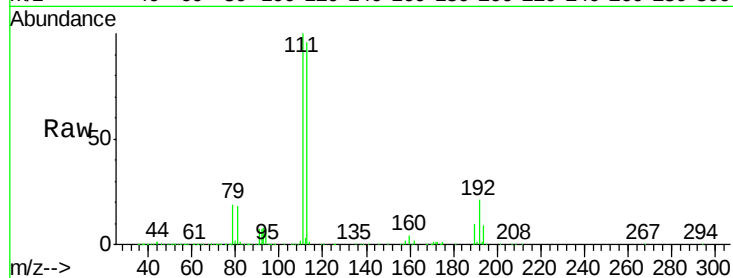




#35
 Dibromofluoromethane
 Concen: 47.154 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.00 min
 Lab File: VX017986.D
 Acq: 19 Aug 2020 15:41

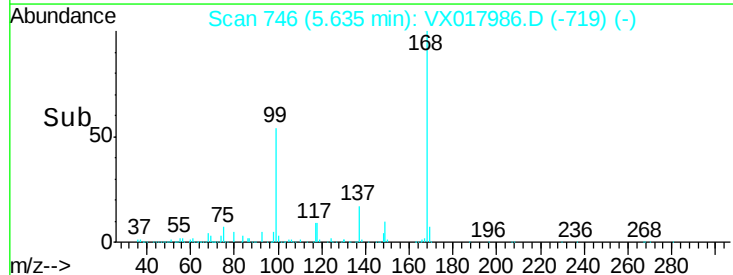
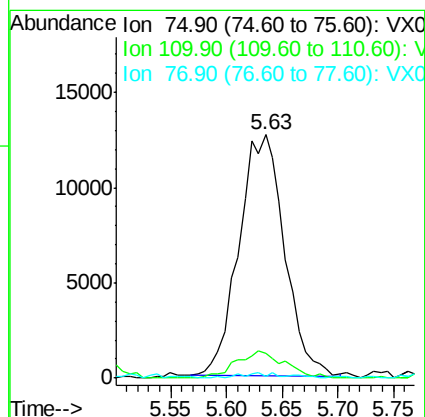
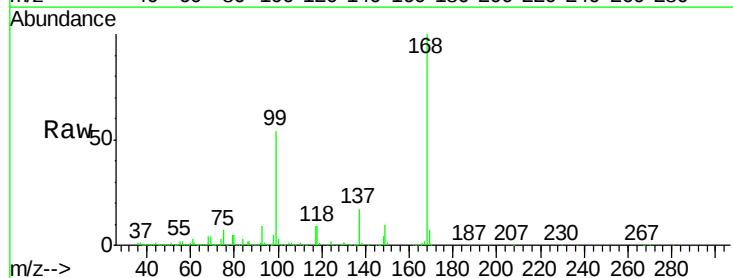
Instrument :
 MSVOA_X
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 BP-VPB181-GW-338-340

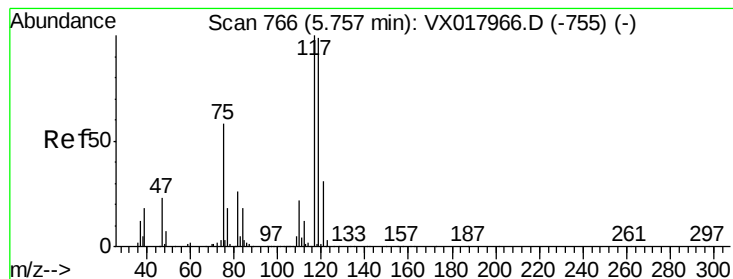
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.5	125.3
192	20.2	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 5.797 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017986.D
 Acq: 19 Aug 2020 15:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.0	18.7	56.1#
77	0.7	24.4	36.6#





#38

Carbon Tetrachloride

Concen: 6.102 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX017986.D

Acq: 19 Aug 2020 15:41

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-338-340

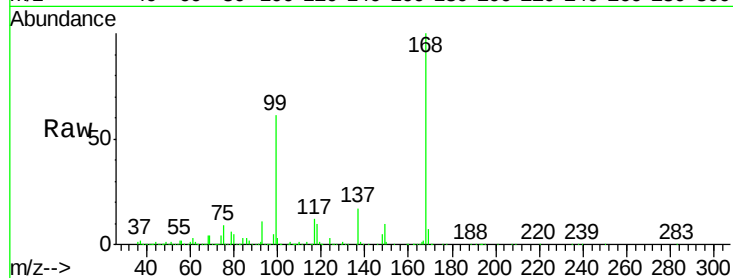
Tgt Ion:117 Resp: 48909

Ion Ratio Lower Upper

117 100

119 5.2 79.0 118.6#

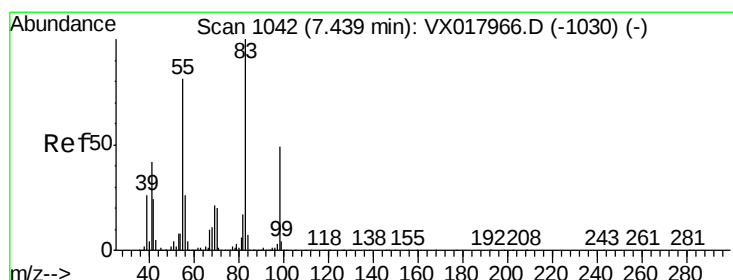
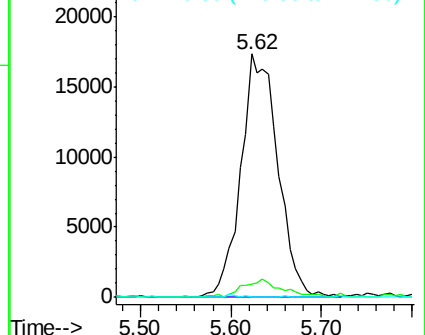
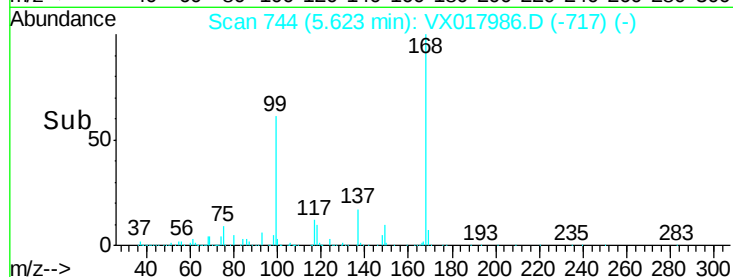
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.850 ug/l

RT: 7.43 min Scan# 1041

Delta R.T. -0.01 min

Lab File: VX017986.D

Acq: 19 Aug 2020 15:41

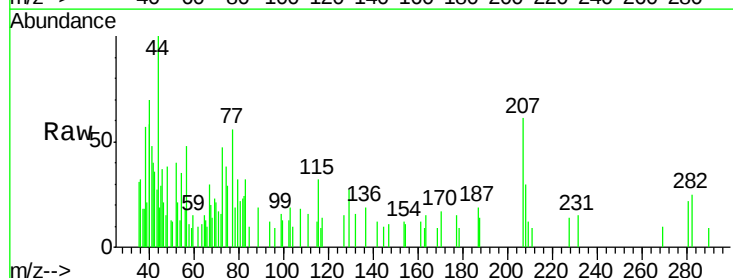
Tgt Ion: 83 Resp: 299

Ion Ratio Lower Upper

83 100

55 0.0 64.5 96.7#

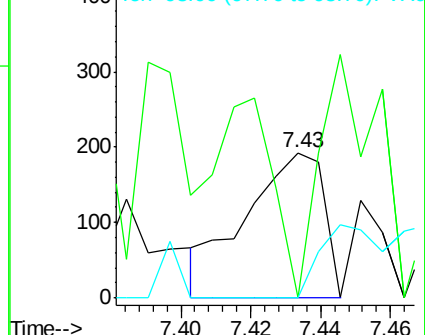
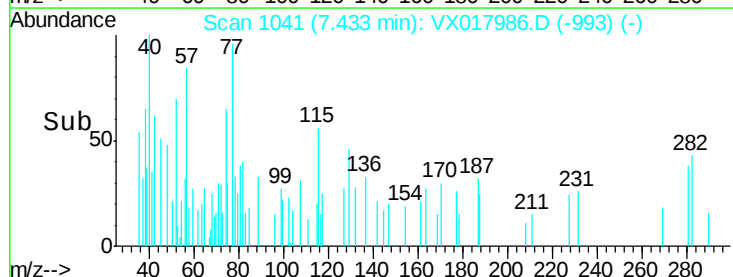
98 0.0 39.0 58.6#

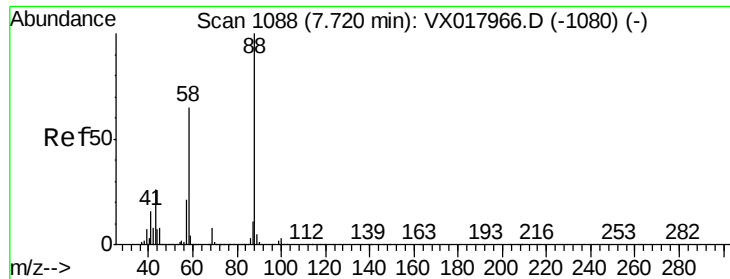


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#49

1,4-Dioxane

Concen: 1.919 ug/l

RT: 7.68 min Scan# 1082

Delta R.T. -0.04 min

Lab File: VX017986.D

Acq: 19 Aug 2020 15:41

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-338-340

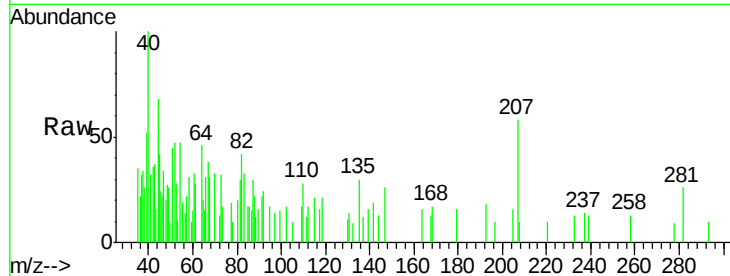
Tgt Ion: 88 Resp: 233

Ion Ratio Lower Upper

88 100

43 0.0 27.3 40.9#

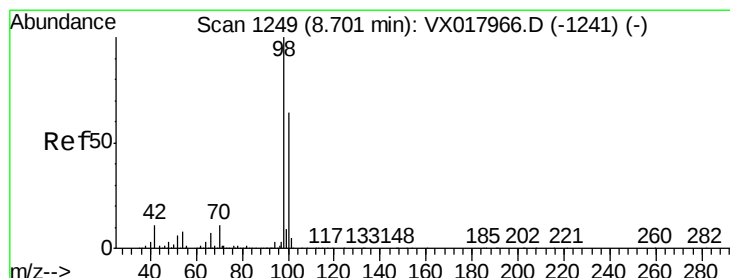
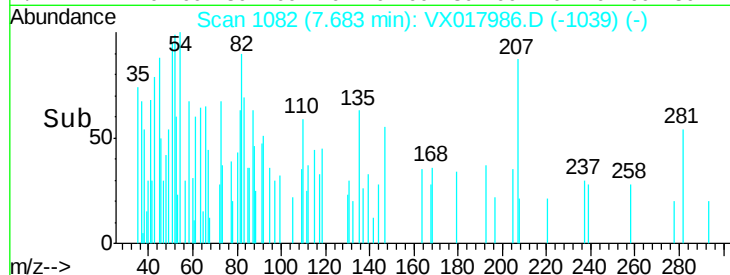
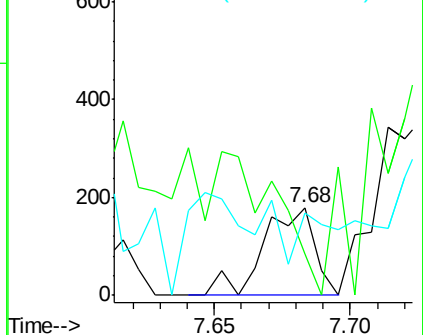
58 45.1 57.7 86.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 45.227 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VX017986.D

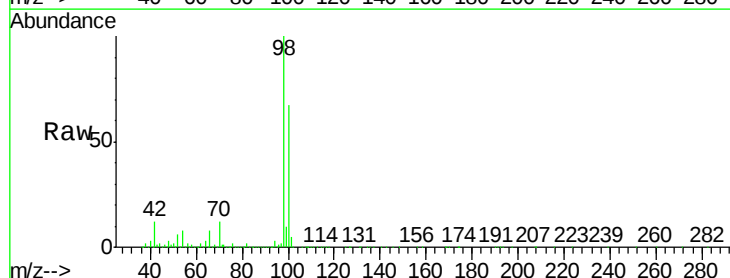
Acq: 19 Aug 2020 15:41

Tgt Ion: 98 Resp: 880897

Ion Ratio Lower Upper

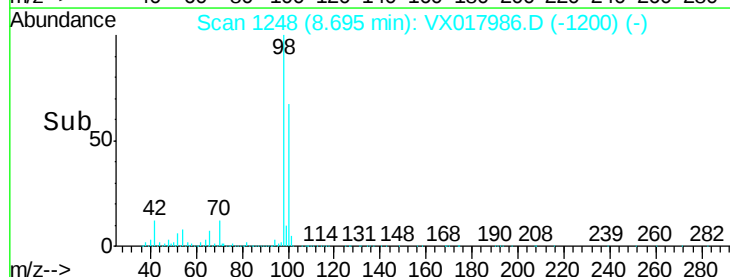
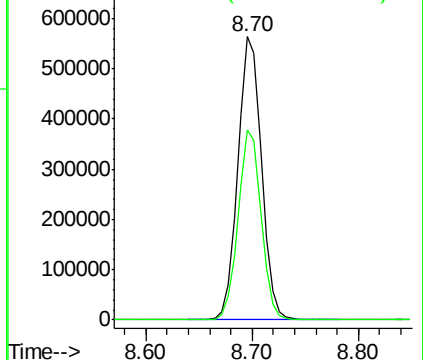
98 100

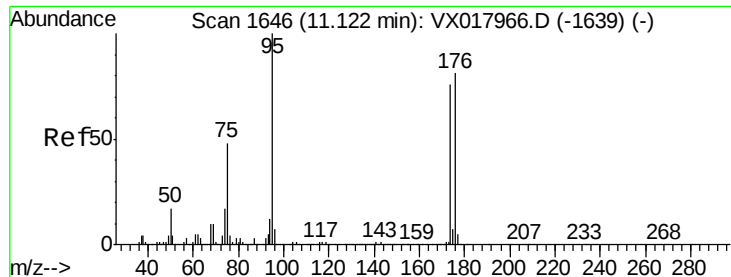
100 65.2 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.056 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017986.D

Acq: 19 Aug 2020 15:41

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-338-340

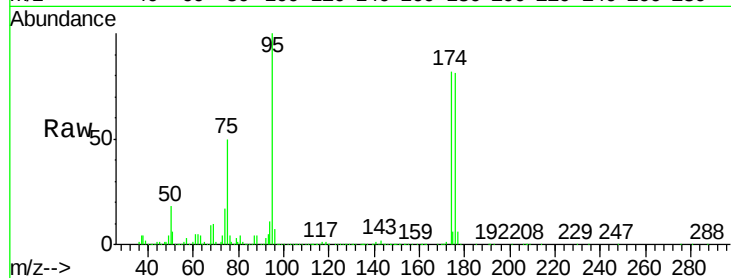
Tgt Ion: 95 Resp: 316922

Ion Ratio Lower Upper

95 100

174 83.1 0.0 166.0

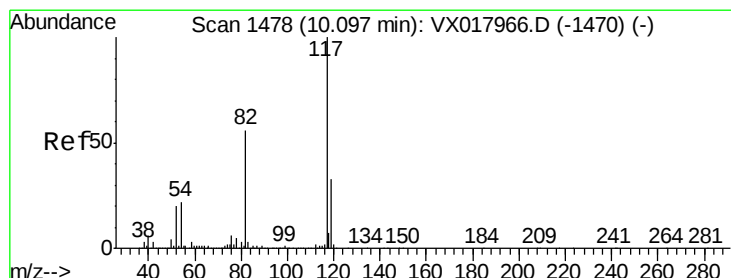
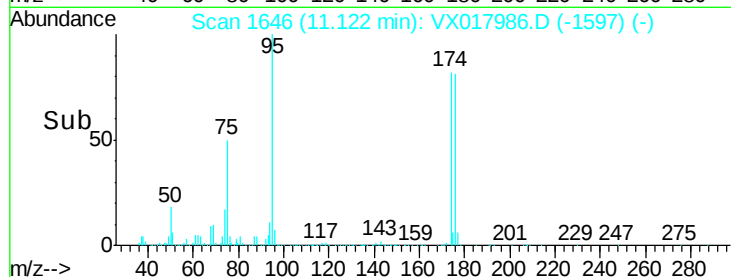
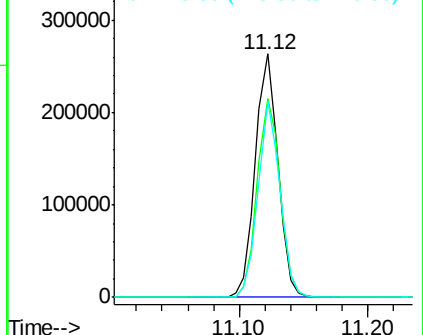
176 78.3 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX017986.D

Acq: 19 Aug 2020 15:41

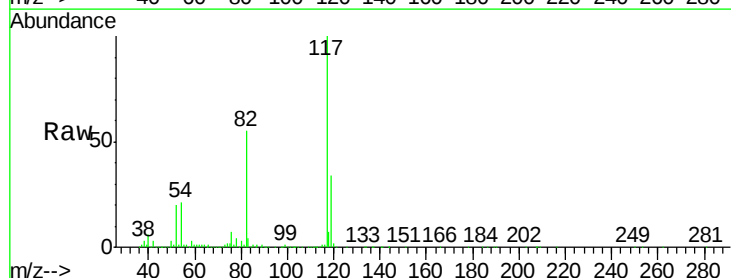
Tgt Ion: 117 Resp: 685312

Ion Ratio Lower Upper

117 100

82 55.3 44.6 66.8

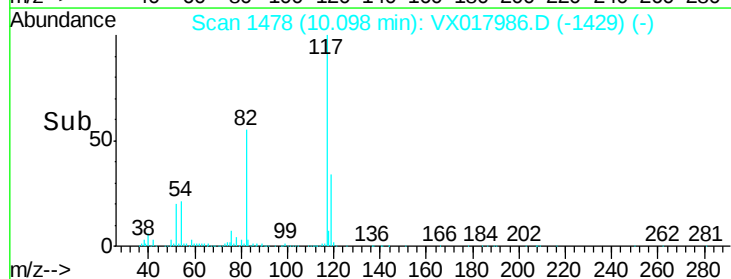
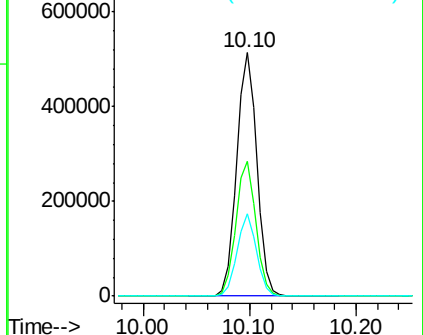
119 33.8 26.2 39.4

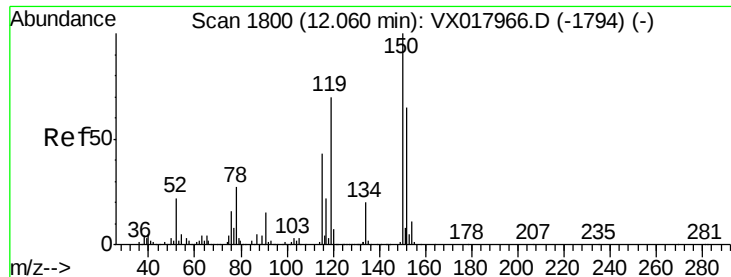


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017986.D

Acq: 19 Aug 2020 15:41

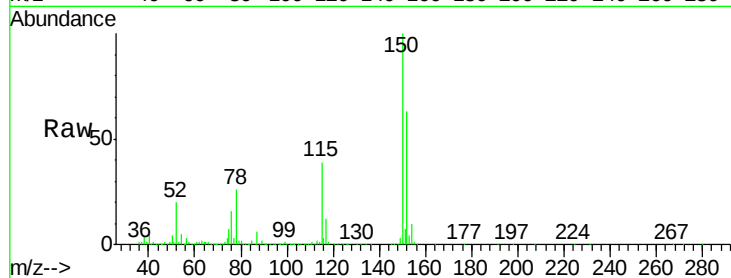
Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-338-340

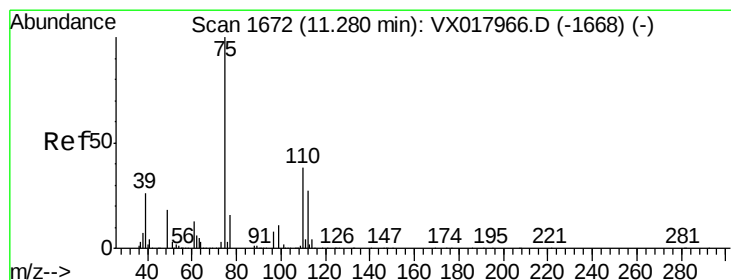
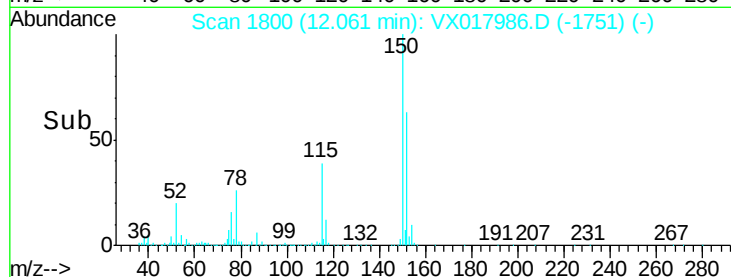
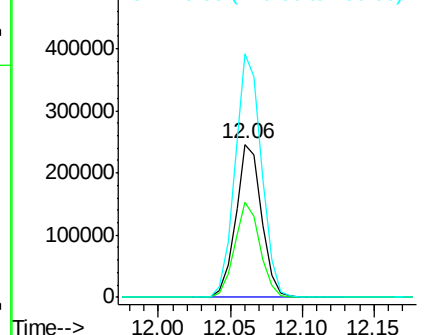
Tgt Ion:	152	Resp:	309067
Ion	Ratio	Lower	Upper
152	100		
115	61.0	40.6	121.7
150	162.1	0.0	346.4



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



#76

1,2,3-Trichloropropane

Concen: 24.353 ug/l

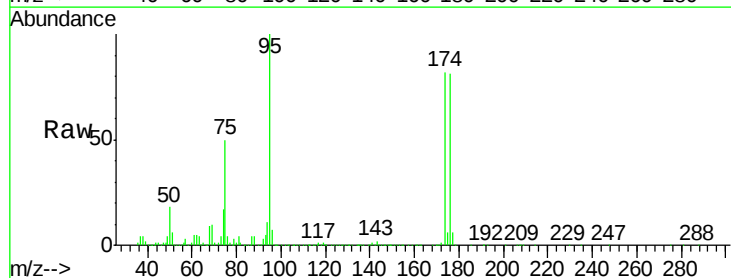
RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017986.D

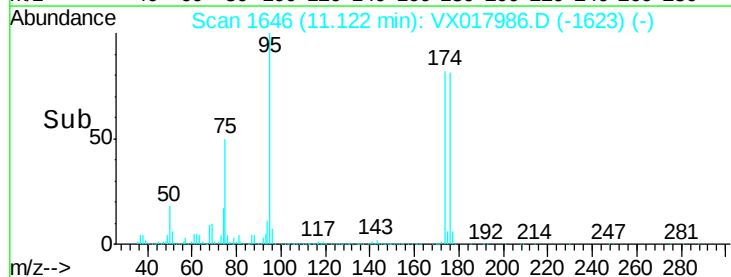
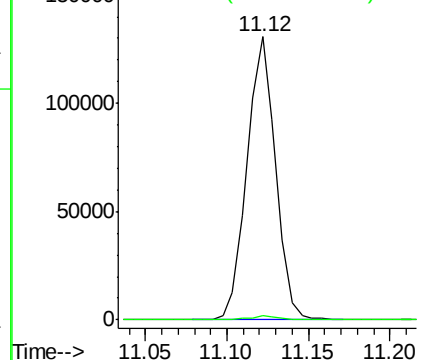
Acq: 19 Aug 2020 15:41

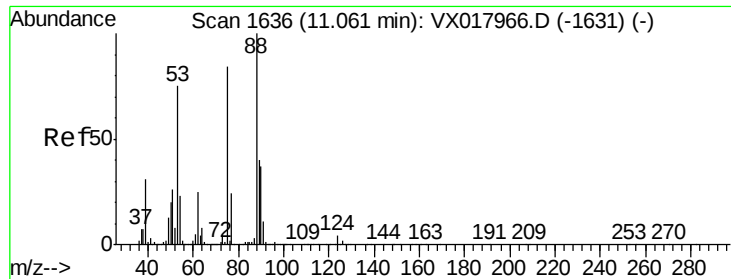
Tgt Ion:	75	Resp:	160067
Ion	Ratio	Lower	Upper
75	100		
77	1.6	21.1	63.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.978 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017986.D

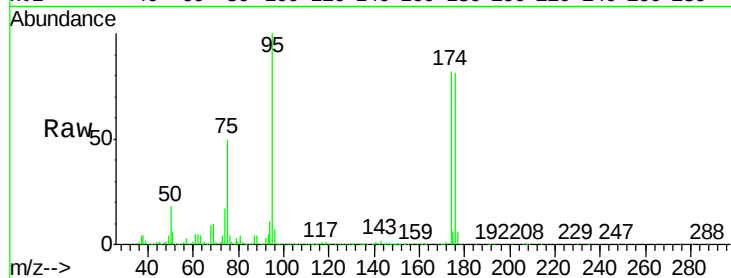
Acq: 19 Aug 2020 15:41

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-338-340



Tgt Ion: 75 Resp: 160067

Ion Ratio Lower Upper

75 100

53 0.6 75.2 112.8#

89 0.0 38.4 57.6#

