

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017587.D
 Acq On : 25 Jul 2020 11:49
 Operator : JC/SP
 Sample : VX0724WBL03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:11:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	442320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	705405	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	747950	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	421548	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	295435	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
35) Dibromofluoromethane	5.47	113	248666	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
50) Toluene-d8	8.70	98	865306	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
62) 4-Bromofluorobenzene	11.12	95	398706	58.54	ug/l	0.00
Spiked Amount			Recovery	=	117.08%	

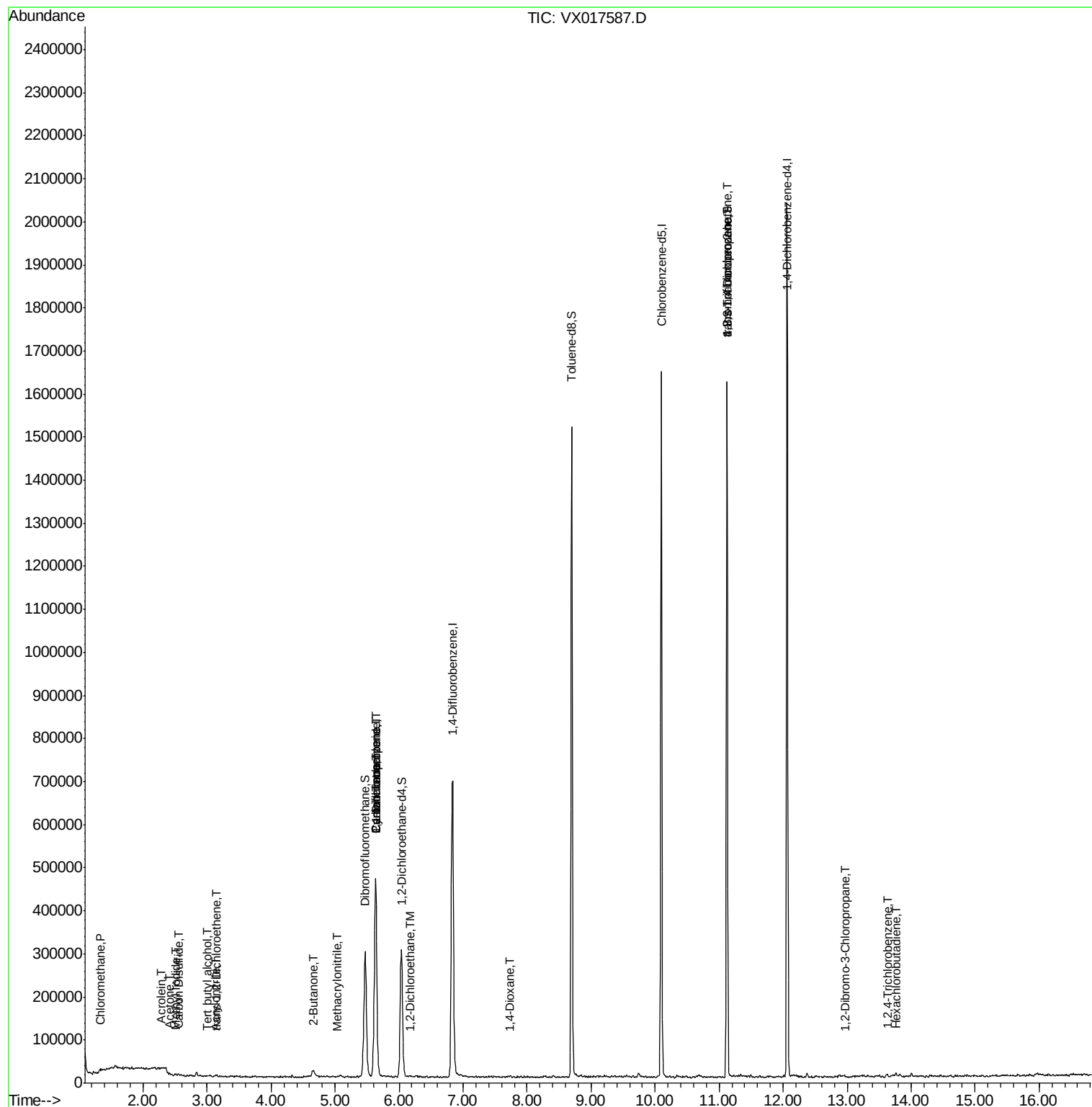
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	781	Below Cal		100
3) Chloromethane	1.32	50	1536	0.646 ug/l #		79
5) Bromomethane	1.65	94	1217	Below Cal		93
6) Chloroethane	1.70	64	204	Below Cal #		44
8) Diethyl Ether	2.15	74	566	Below Cal		92
10) Methyl Iodide	2.51	142	1450	0.236 ug/l #		43
11) Tert butyl alcohol	3.00	59	803	0.671 ug/l #		72
13) Acrolein	2.28	56	542	4.732 ug/l #		83
15) Acrylonitrile	3.13	53	1712	0.662 ug/l #		24
16) Acetone	2.42	43	1924	0.769 ug/l #		80
17) Carbon Disulfide	2.56	76	3964	0.285 ug/l		96
20) Methylene Chloride	2.84	84	5177	Below Cal #		77
21) trans-1,2-Dichloroethene	3.15	96	1227	0.251 ug/l #		53
25) 2-Butanone	4.65	43	1244	0.350 ug/l #		52
31) Cyclohexane	5.63	56	9091	1.297 ug/l #		1
36) 1,1-Dichloropropene	5.63	75	31556	4.664 ug/l #		52
38) Carbon Tetrachloride	5.63	117	46242	5.628 ug/l #		19
41) Methacrylonitrile	5.03	41	1142	0.269 ug/l #		54
42) 1,2-Dichloroethane	6.17	62	1713	0.216 ug/l		98
49) 1,4-Dioxane	7.73	88	169	1.456 ug/l #		1
76) 1,2,3-Trichloropropane	11.12	75	202057	23.301 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	202057	58.714 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	245	2.668 ug/l		67
93) 1,2,4-Trichlorobenzene	13.62	180	2006	0.215 ug/l		86
94) Hexachlorobutadiene	13.77	225	1224	0.285 ug/l		87

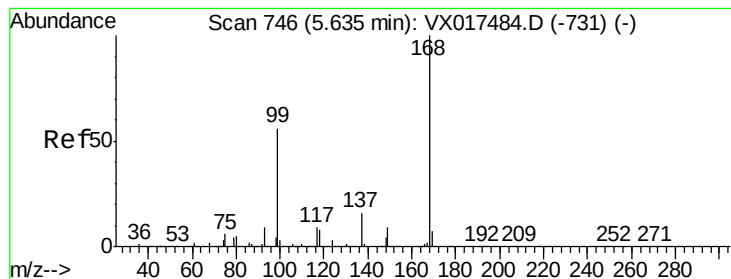
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072420\
Data File : VX017587.D
Acq On : 25 Jul 2020 11:49
Operator : JC/SP
Sample : VX0724WBL03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 61 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jul 27 01:11:46 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

Instrument :

MSVOA_X

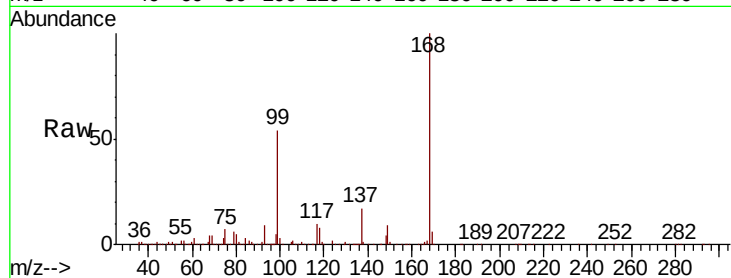
ClientSampled :

Tot Ion:168 Resp: 442320

Ion Ratio Lower Upper

168 100

99 53.8 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

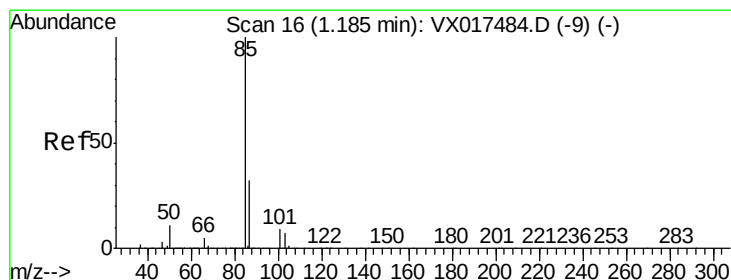
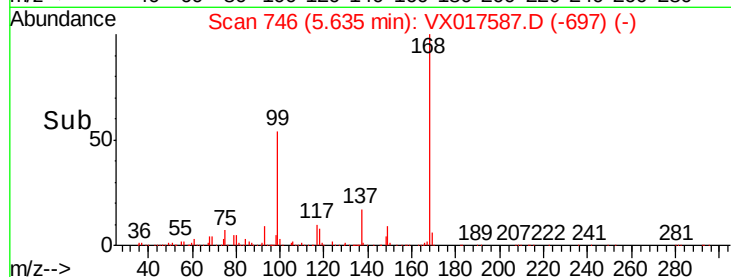
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017587.D

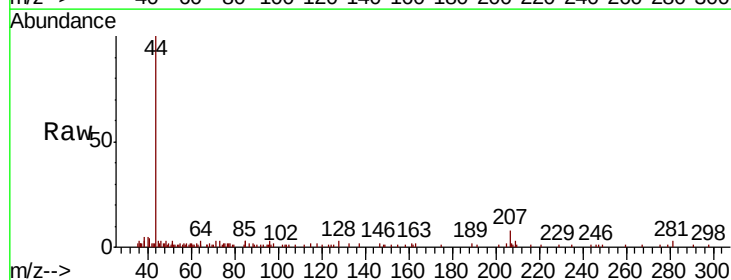
Acq: 25 Jul 2020 11:49

Tgt Ion: 85 Resp: 781

Ion Ratio Lower Upper

85 100

87 32.4 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

500

400

300

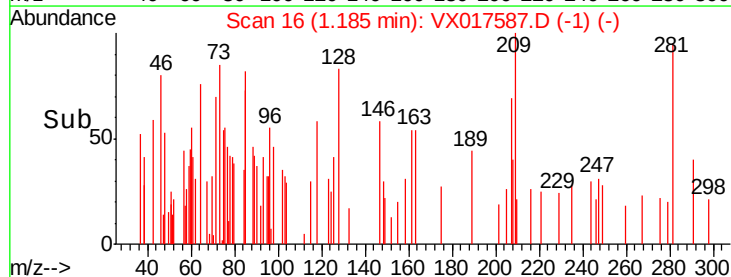
200

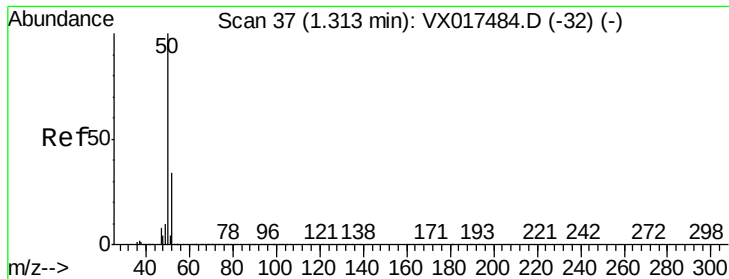
100

0

Time-->

1.10 1.15 1.20





#3

Chloromethane

Concen: 0.646 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

Instrument :

MSVOA_X

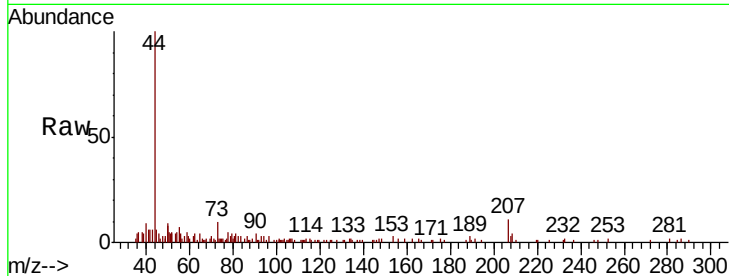
ClientSampleId :

Tot Ion: 50 Resp: 1536

Ion Ratio Lower Upper

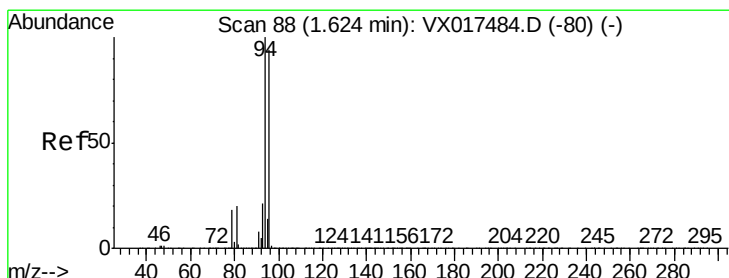
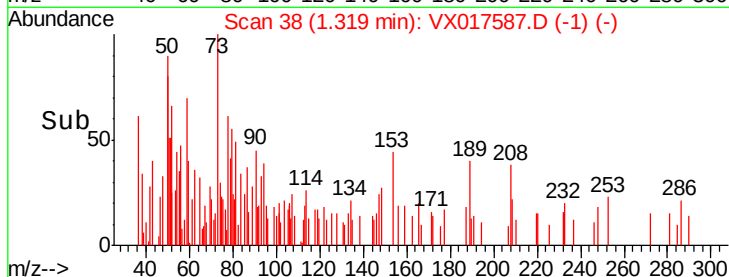
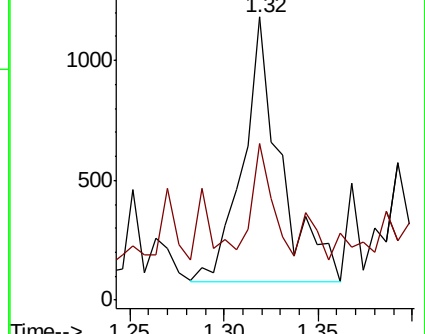
50 100

52 44.1 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 93

Delta R.T. 0.03 min

Lab File: VX017587.D

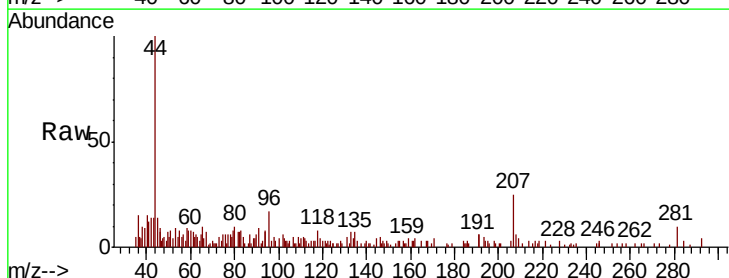
Acq: 25 Jul 2020 11:49

Tgt Ion: 94 Resp: 1217

Ion Ratio Lower Upper

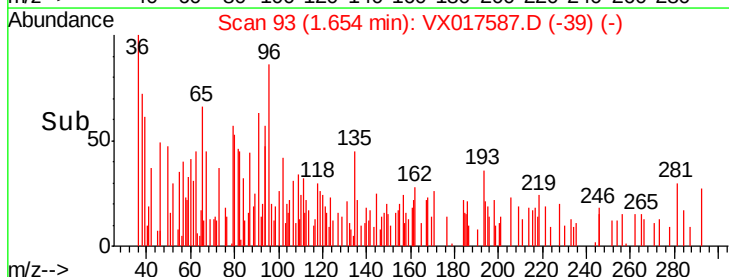
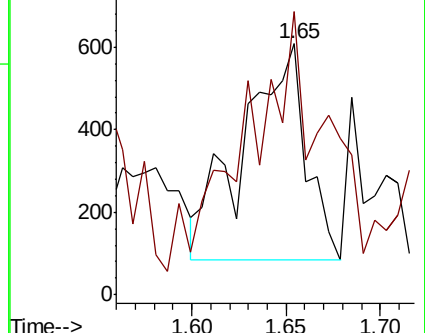
94 100

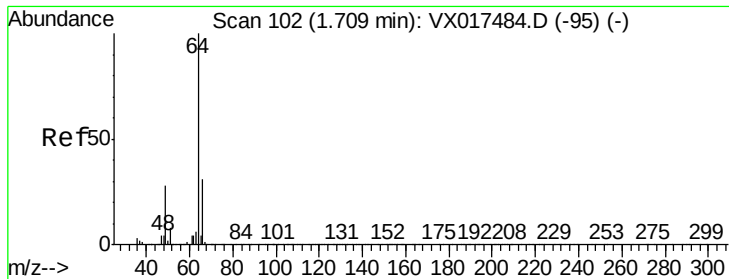
96 86.3 74.1 111.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. -0.01 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

Instrument :

MSVOA_X

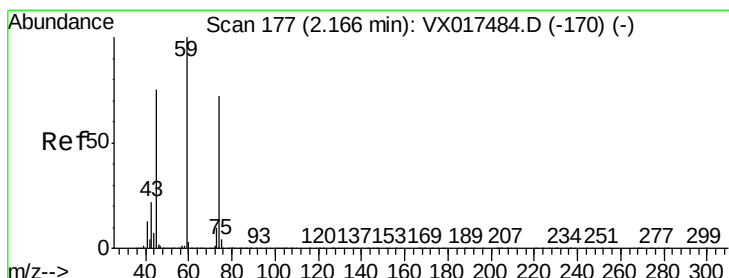
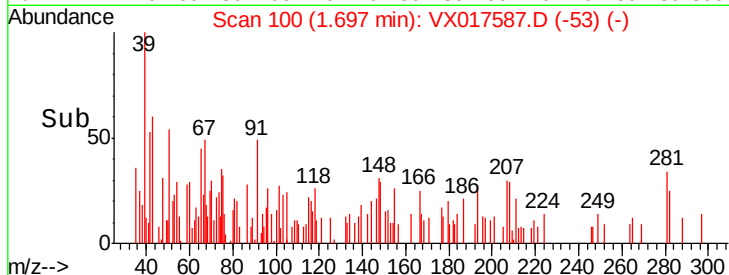
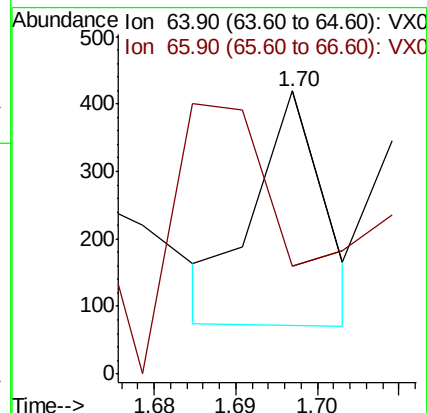
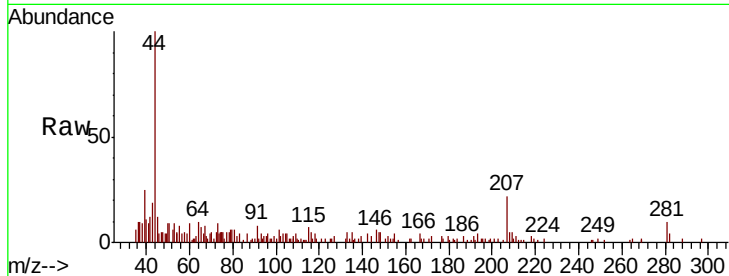
ClientSampled :

Tot Ion: 64 Resp: 204

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.15 min Scan# 175

Delta R.T. -0.01 min

Lab File: VX017587.D

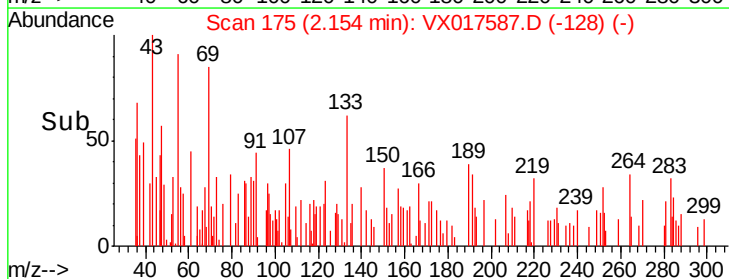
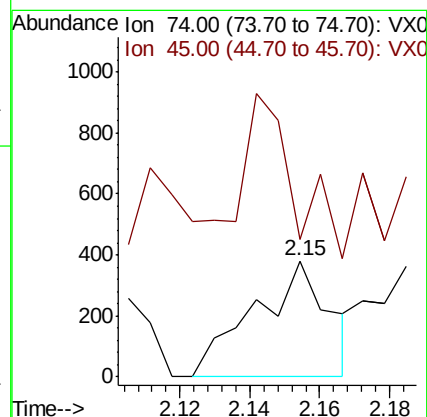
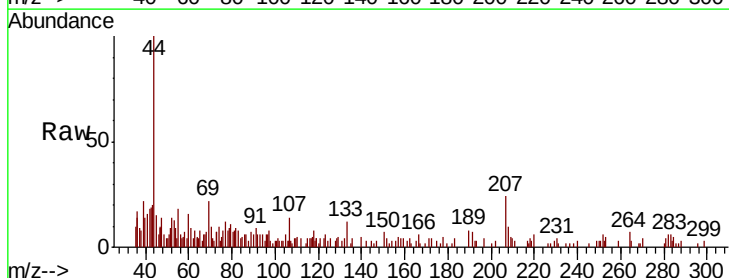
Acq: 25 Jul 2020 11:49

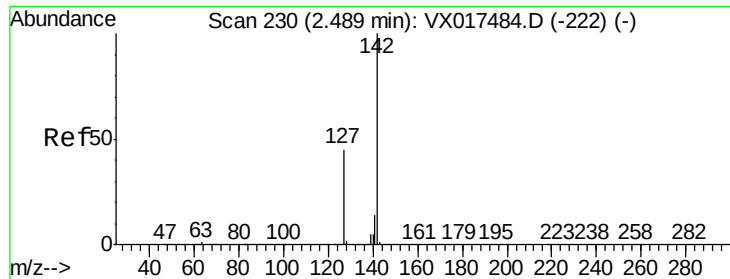
Tgt Ion: 74 Resp: 566

Ion Ratio Lower Upper

74 100

45 93.6 50.8 152.5

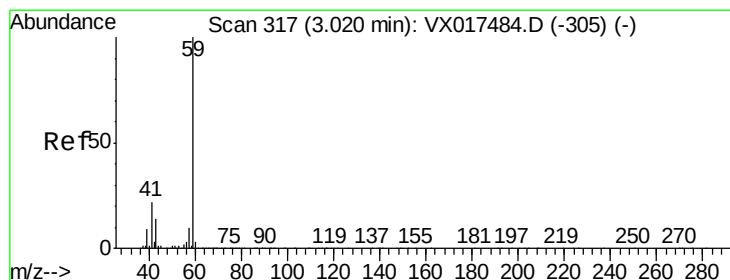
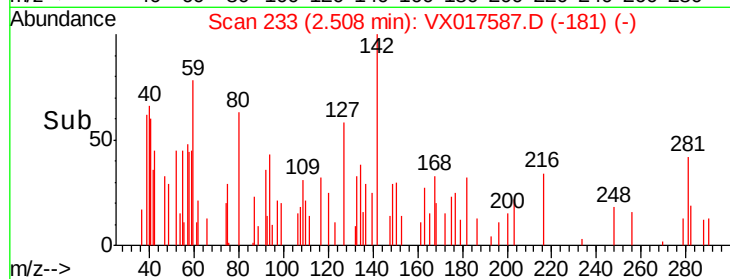
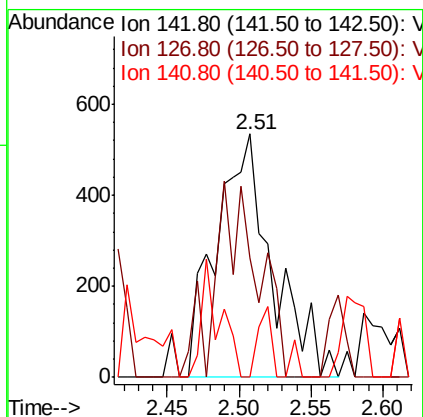
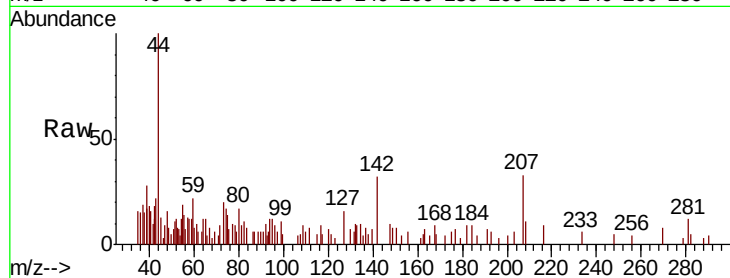




#10
Methyl Iodide
Concen: 0.236 ug/l
RT: 2.51 min Scan# 233
Delta R.T. 0.02 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

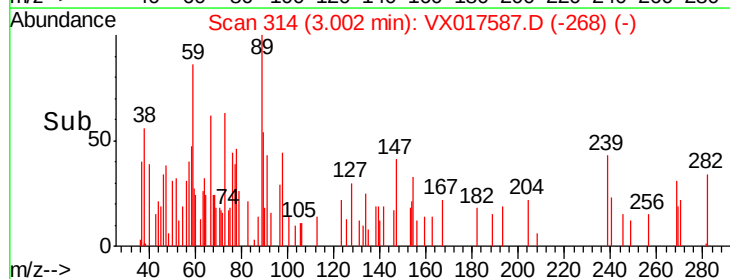
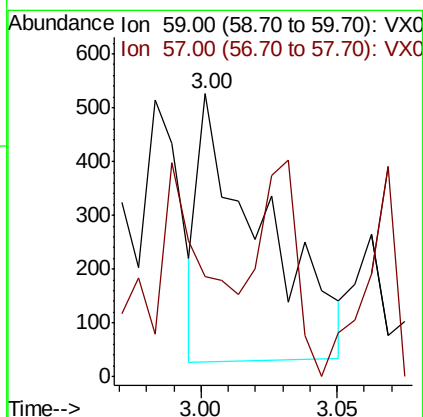
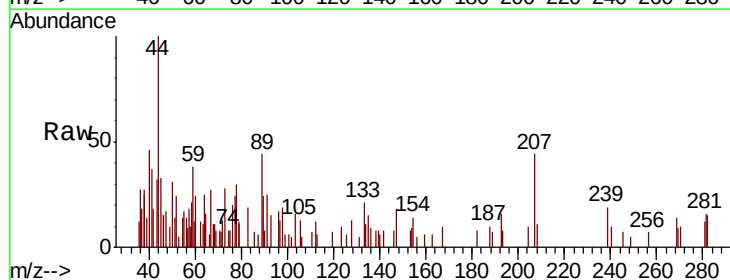
Instrument :
MSVOA_X
ClientSampleId :

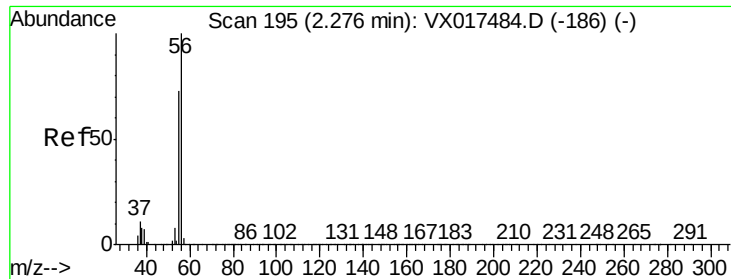
Tot Ion:142 Resp: 1450
Ion Ratio Lower Upper
142 100
127 0.0 35.9 53.9#
141 6.8 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.671 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

Tgt Ion: 59 Resp: 803
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

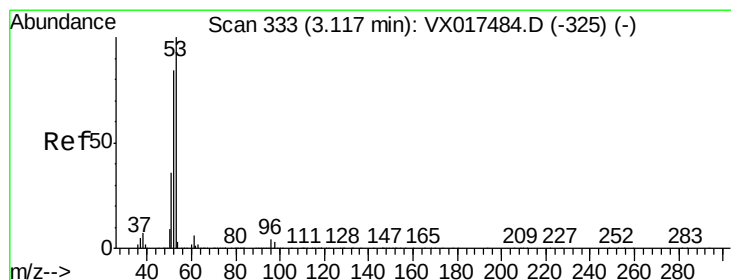
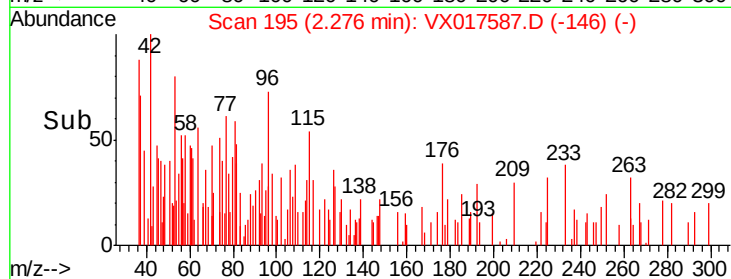
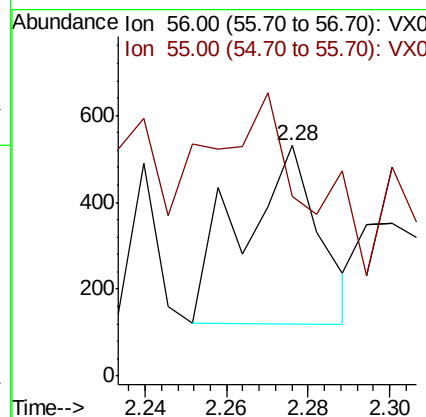
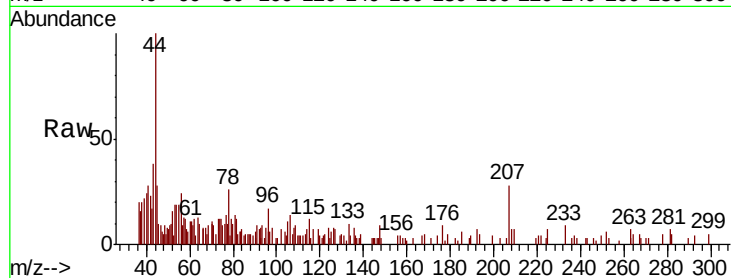




#13
Acrolein
Concen: 4.732 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.00 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

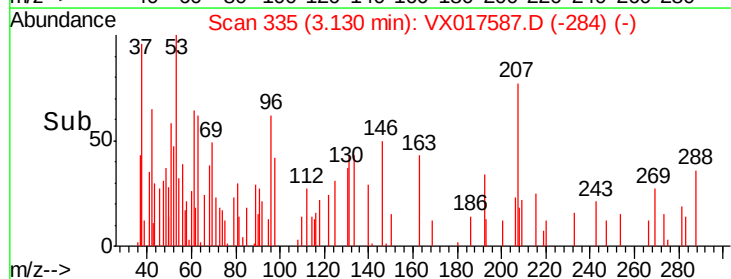
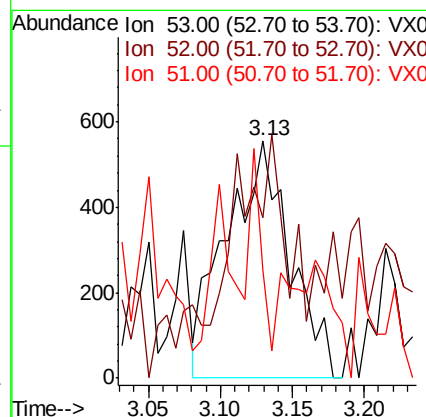
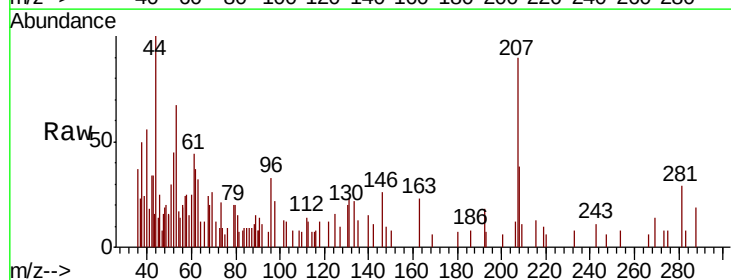
Instrument :
MSVOA_X
ClientSampled :

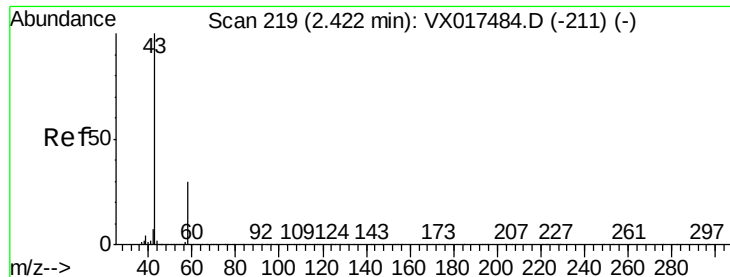
Tot Ion: 56 Resp: 542
Ion Ratio Lower Upper
56 100
55 86.3 57.4 86.2#



#15
Acrylonitrile
Concen: 0.662 ug/l
RT: 3.13 min Scan# 335
Delta R.T. 0.01 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

Tgt Ion: 53 Resp: 1712
Ion Ratio Lower Upper
53 100
52 0.0 66.6 99.8#
51 14.1 29.4 44.2#

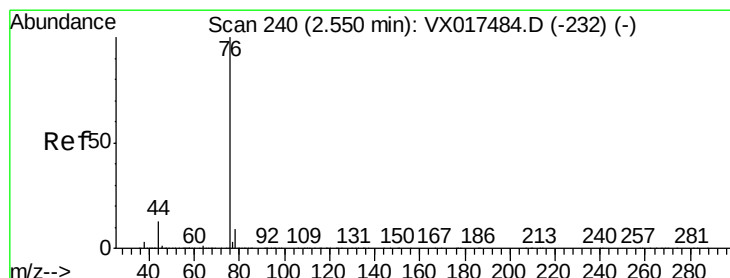
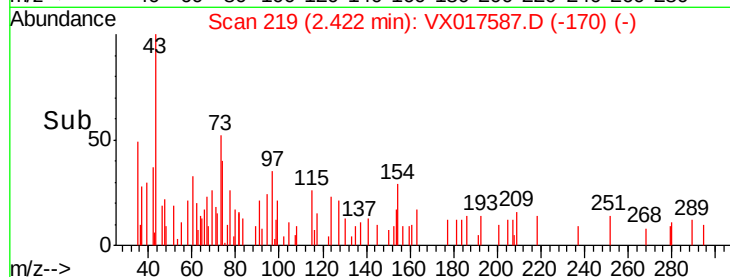
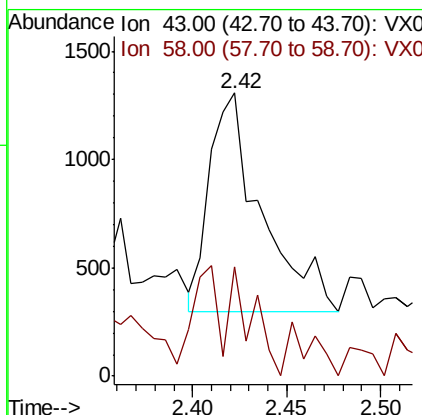
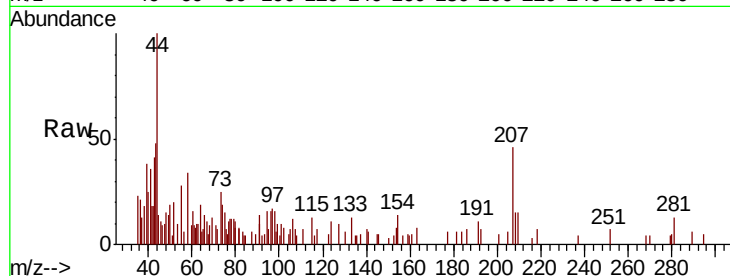




#16
Acetone
Concen: 0.769 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.00 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

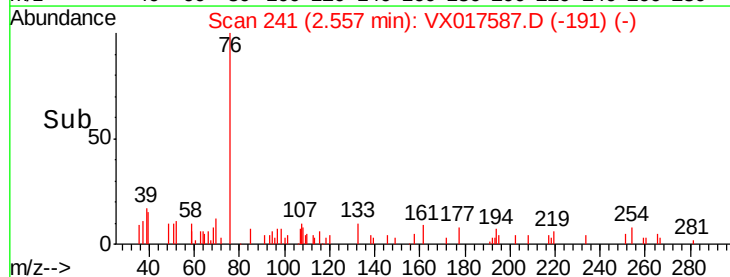
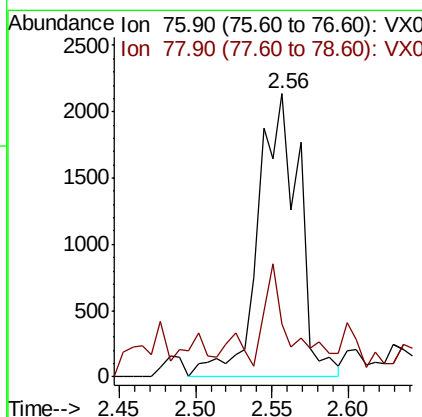
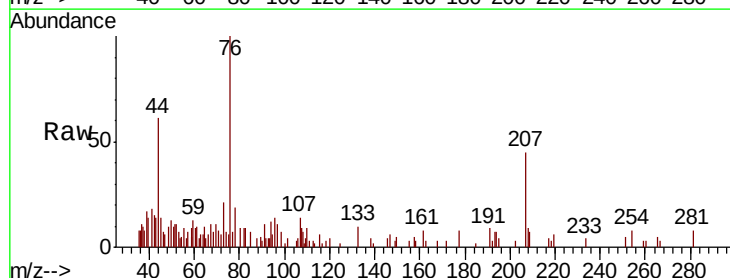
Instrument :
MSVOA_X
ClientSampled :

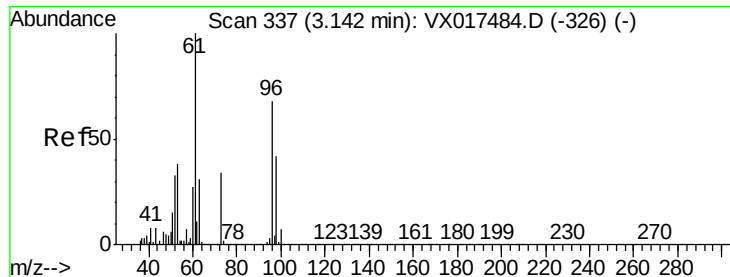
Tot Ion: 43 Resp: 1924
Ion Ratio Lower Upper
43 100
58 41.2 24.2 36.4#



#17
Carbon Disulfide
Concen: 0.285 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

Tgt Ion: 76 Resp: 3964
Ion Ratio Lower Upper
76 100
78 10.7 7.5 11.3





#21

trans-1,2-Dichloroethene

Concen: 0.251 ug/l

RT: 3.15 min Scan# 339

Delta R.T. 0.01 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

Instrument :

MSVOA_X

ClientSampleId :

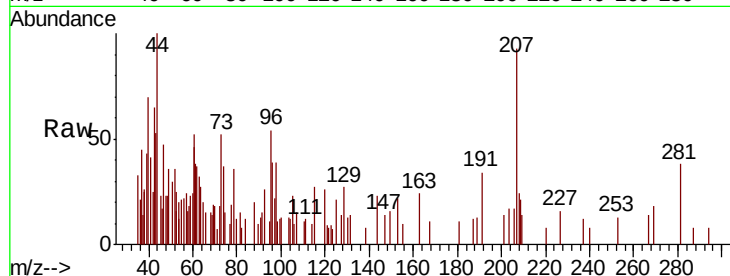
Tot Ion: 96 Resp: 1227

Ion Ratio Lower Upper

96 100

61 64.0 113.0 169.4#

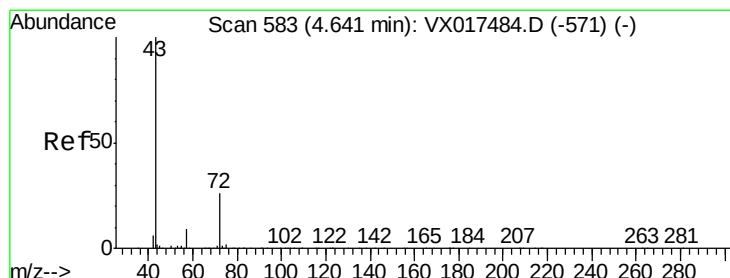
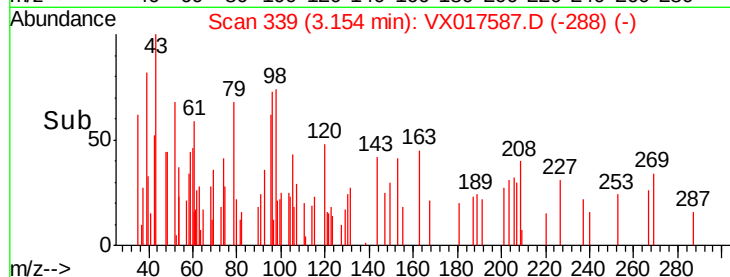
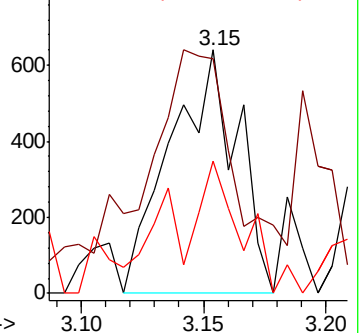
98 54.3 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.350 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017587.D

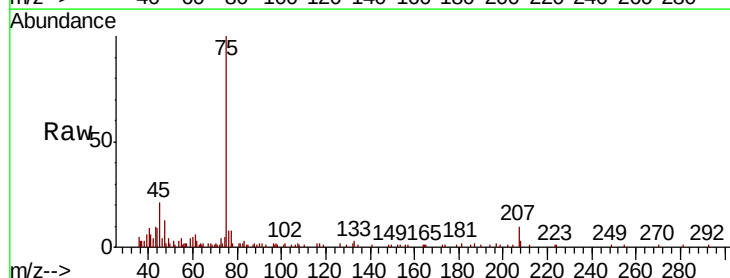
Acq: 25 Jul 2020 11:49

Tgt Ion: 43 Resp: 1244

Ion Ratio Lower Upper

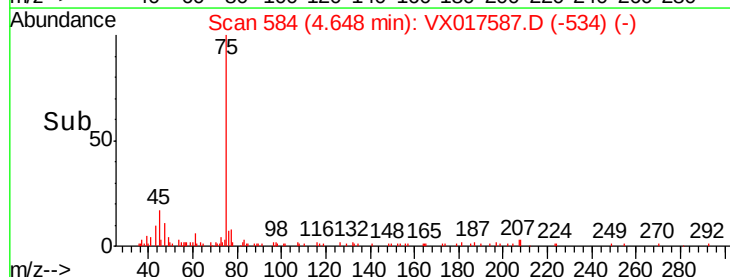
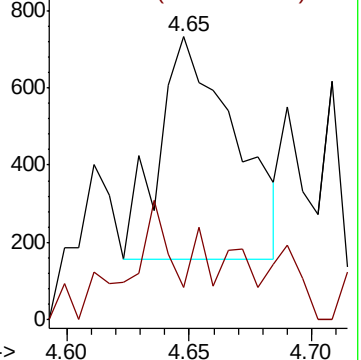
43 100

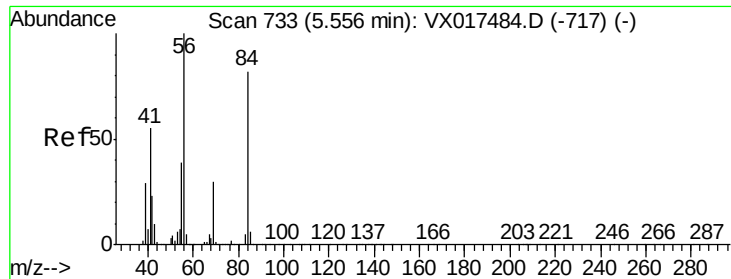
72 0.0 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

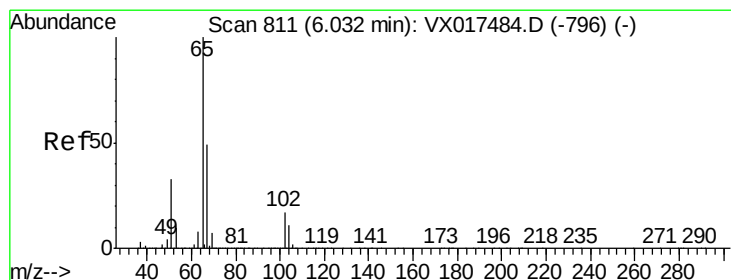
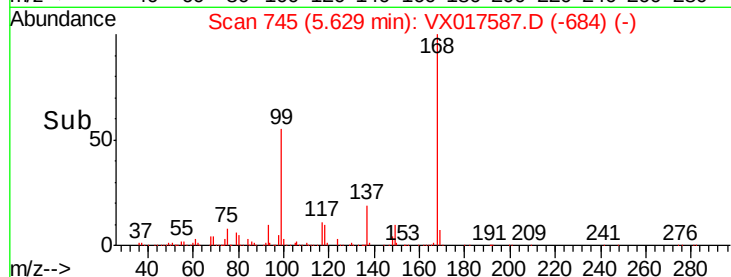
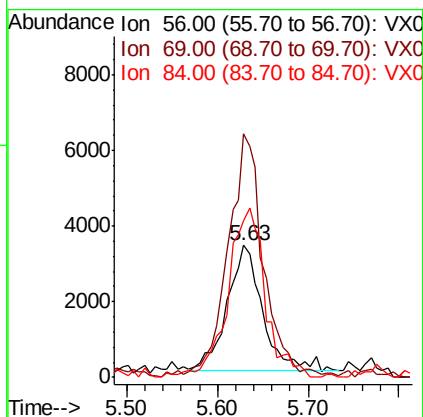
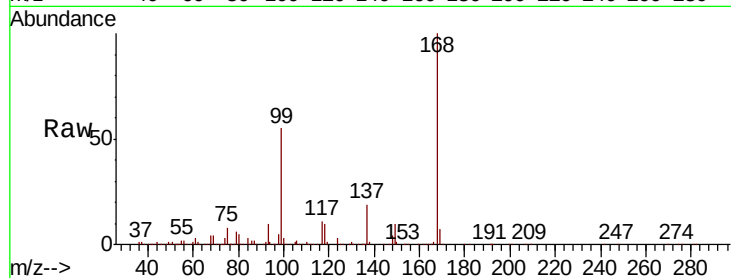




#31
Cyclohexane
Concen: 1.297 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.07 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

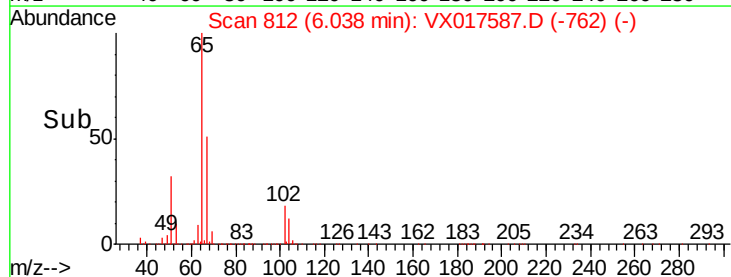
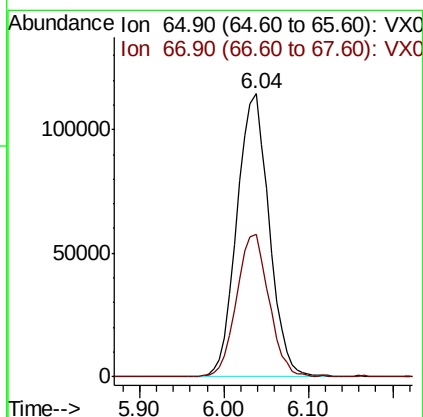
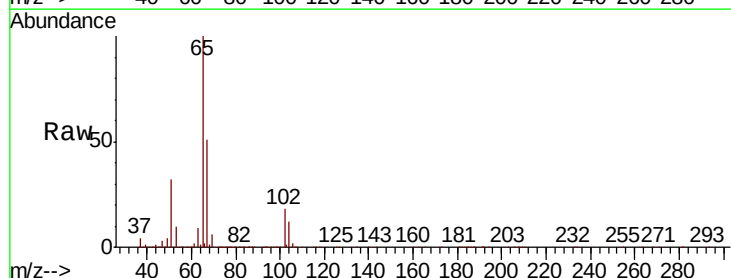
Instrument :
MSVOA_X
ClientSampleId :

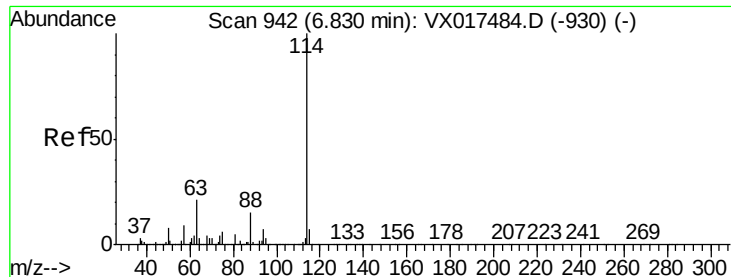
Tot Ion: 56 Resp: 9091
Ion Ratio Lower Upper
56 100
69 192.1 24.2 36.4#
84 124.9 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 51.997 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

Tgt Ion: 65 Resp: 295435
Ion Ratio Lower Upper
65 100
67 50.9 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

Instrument :

MSVOA_X

ClientSampleId :

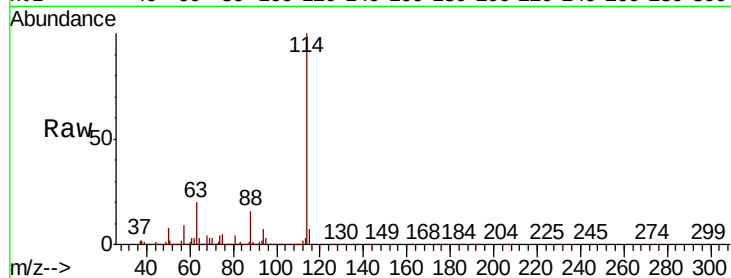
Tot Ion:114 Resp: 705405

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.6

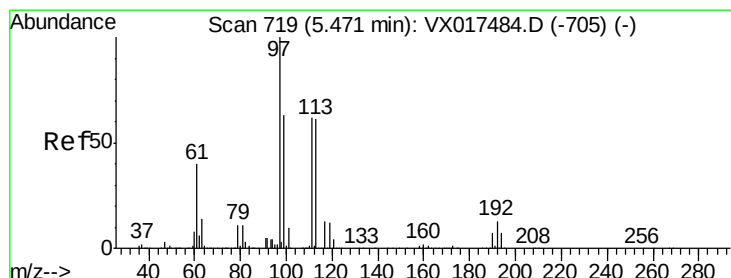
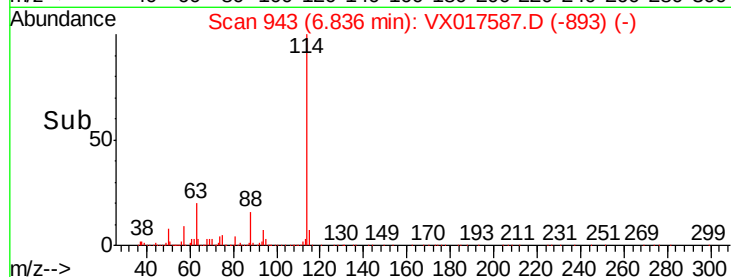
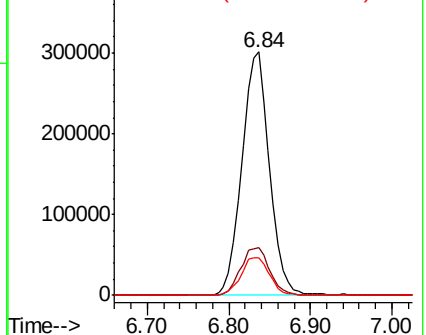
88 15.5 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 52.708 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

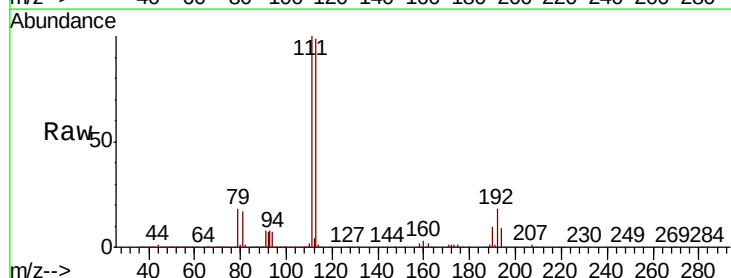
Tgt Ion:113 Resp: 248666

Ion Ratio Lower Upper

113 100

111 103.1 80.7 121.1

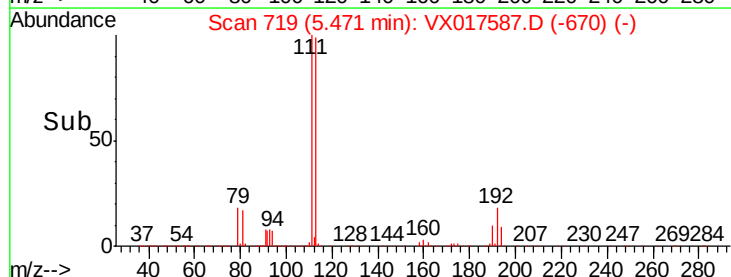
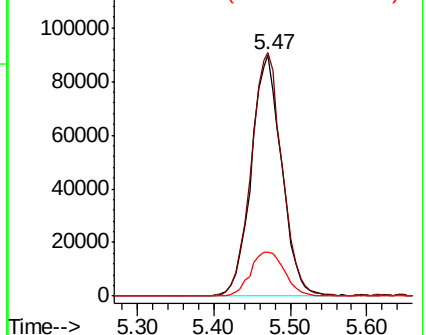
192 20.6 16.9 25.3

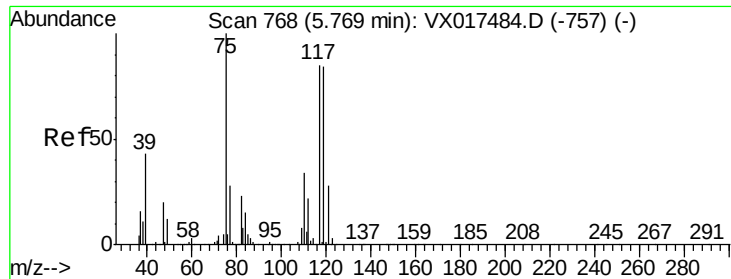


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

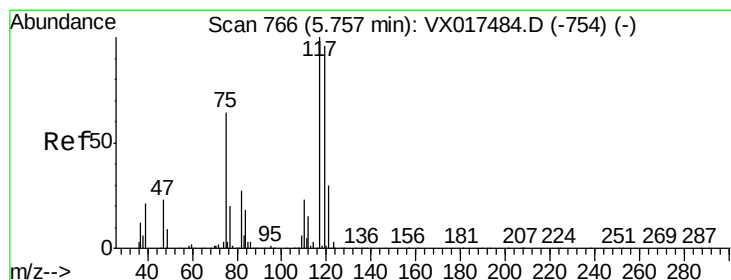
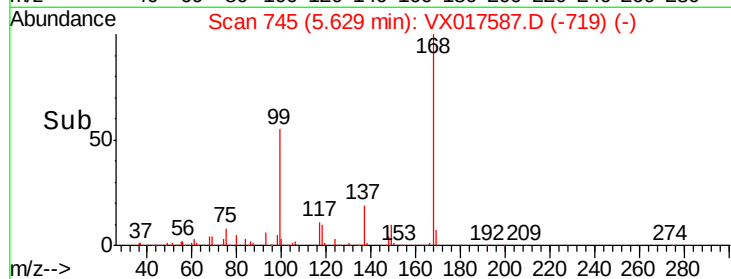
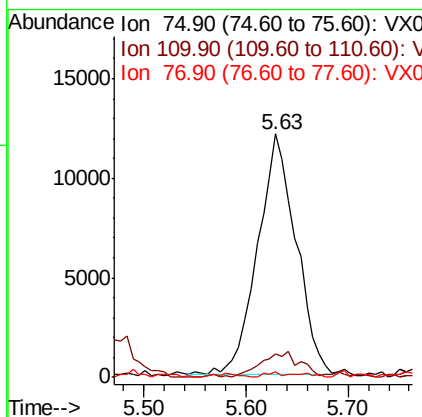
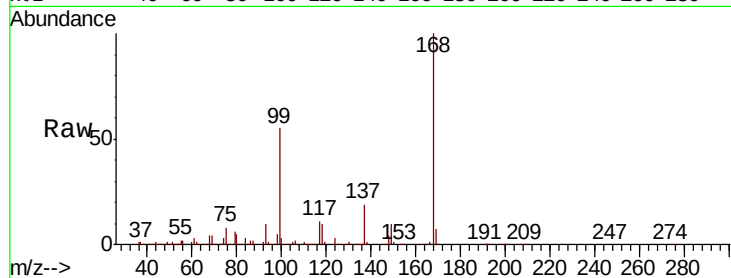




#36
 1,1-Dichloropropene
 Concen: 4.664 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017587.D
 Acq: 25 Jul 2020 11:49

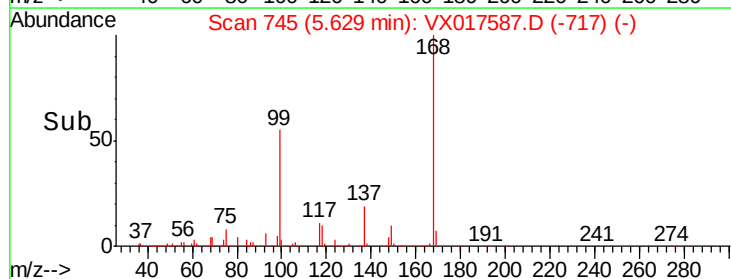
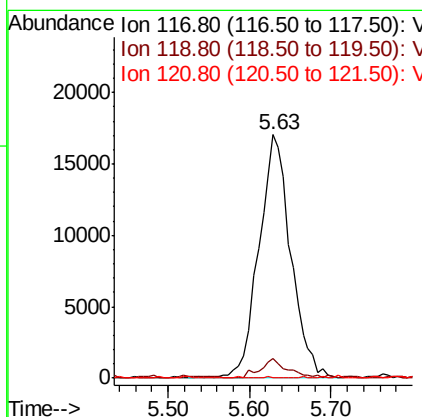
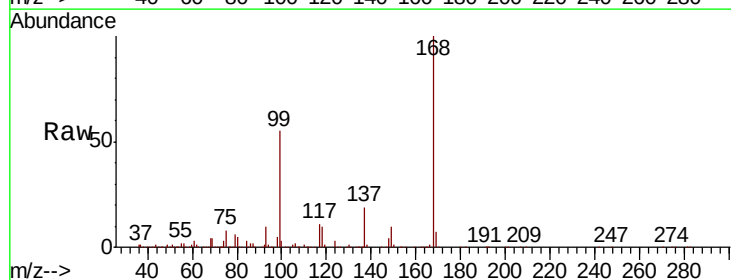
Instrument :
 MSVOA_X
 ClientSampleId :

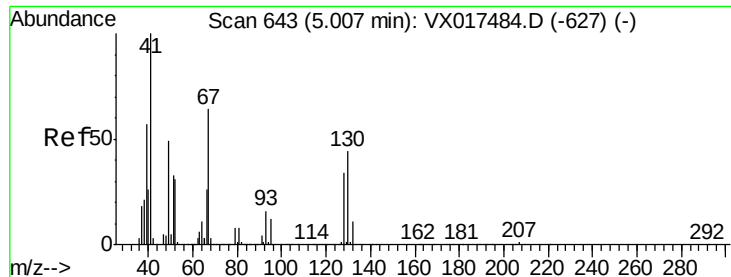
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.1	54.3#
77	1.1	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.628 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX017587.D
 Acq: 25 Jul 2020 11:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.9	75.4	113.0#
121	0.0	24.3	36.5#





#41

Methacrylonitrile

Concen: 0.269 ug/l

RT: 5.03 min Scan# 647

Delta R.T. 0.02 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 41 Resp: 1142

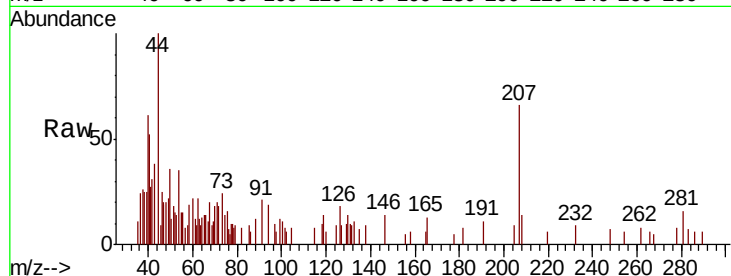
Ion Ratio Lower Upper

41 100

39 0.0 43.9 65.9#

67 39.5 54.0 81.0#

52 37.5 23.0 34.6#

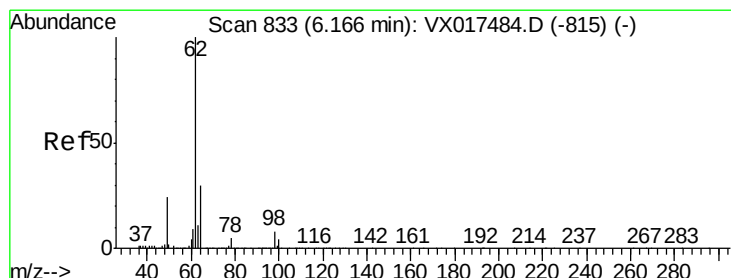
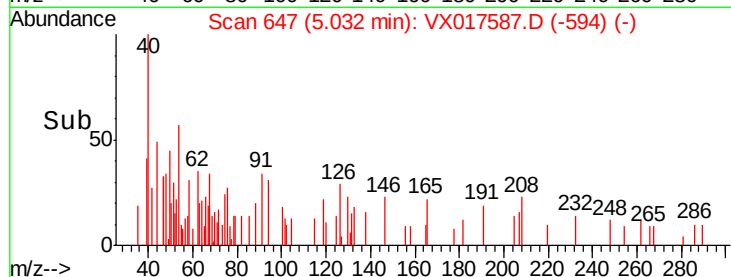
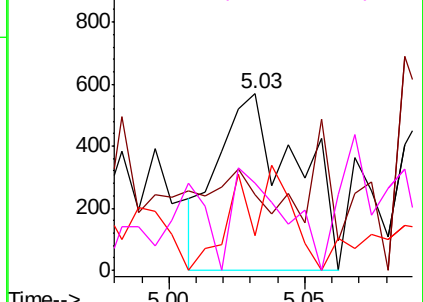


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 0.216 ug/l

RT: 6.17 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX017587.D

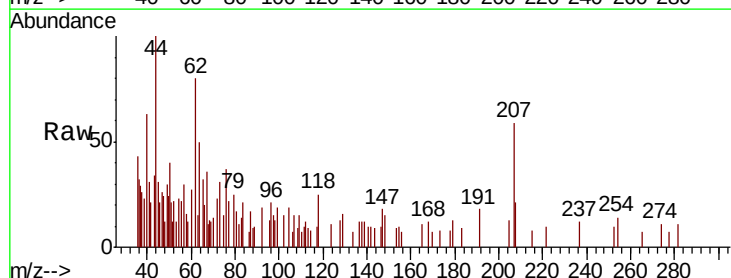
Acq: 25 Jul 2020 11:49

Tgt Ion: 62 Resp: 1713

Ion Ratio Lower Upper

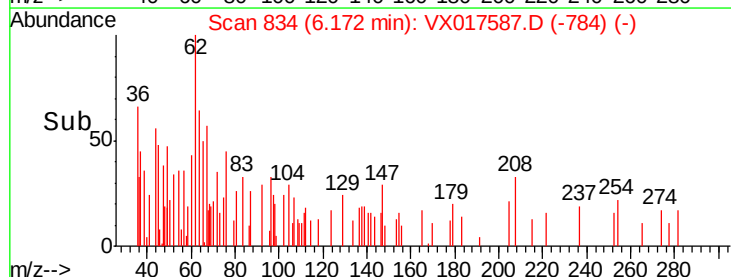
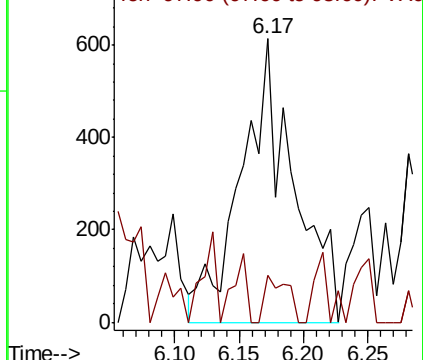
62 100

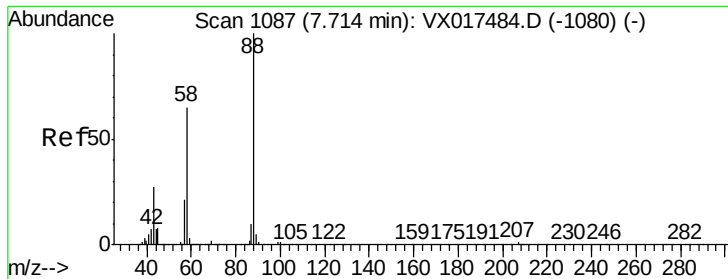
98 7.1 0.0 16.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

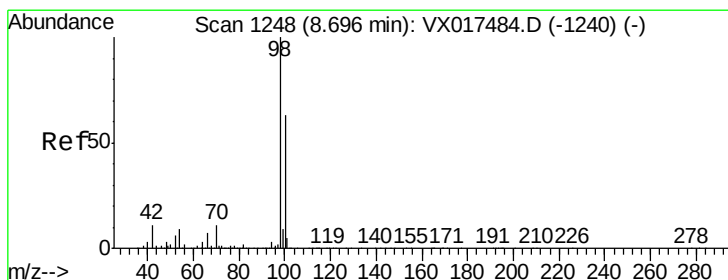
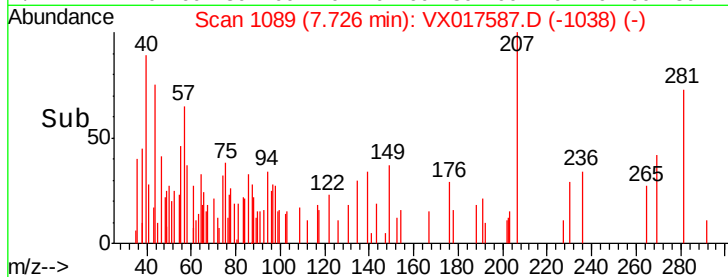
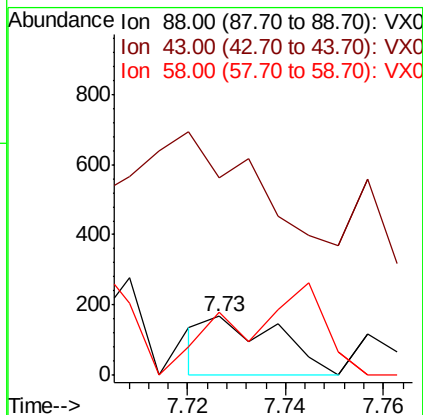
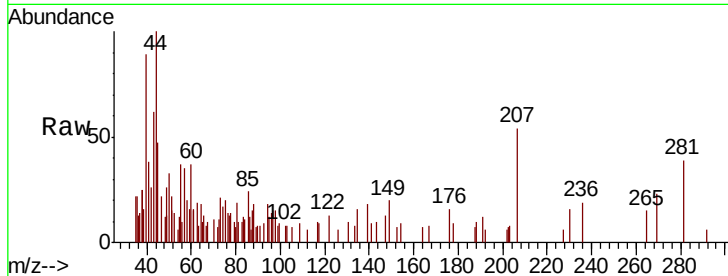




#49
1,4-Dioxane
Concen: 1.456 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

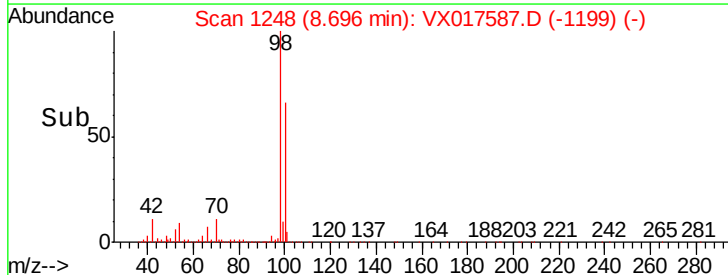
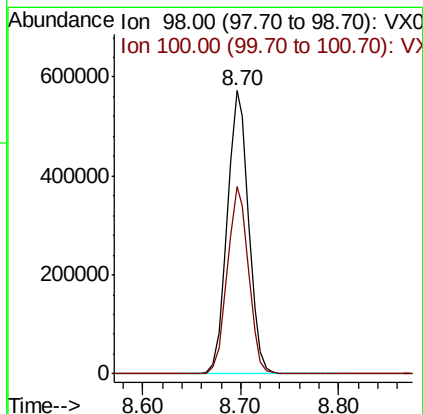
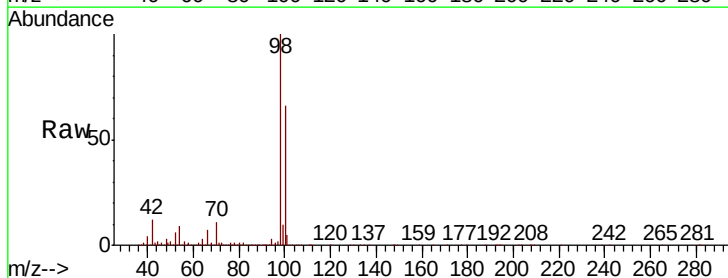
Instrument :
MSVOA_X
ClientSampled :

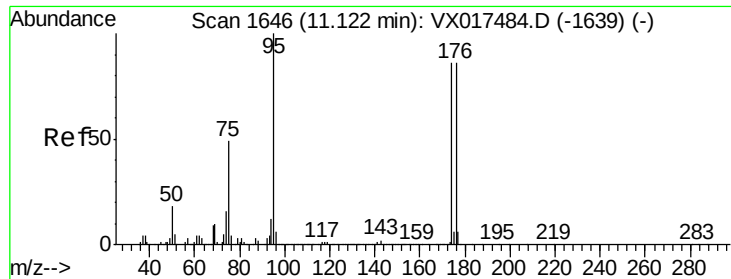
Tot Ion: 88 Resp: 169
Ion Ratio Lower Upper
88 100
43 461.5 27.8 41.6#
58 0.0 58.3 87.5#



#50
Toluene-d8
Concen: 50.843 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

Tgt Ion: 98 Resp: 865306
Ion Ratio Lower Upper
98 100
100 65.8 52.3 78.5

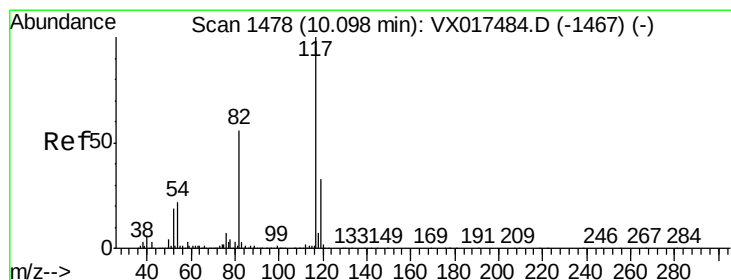
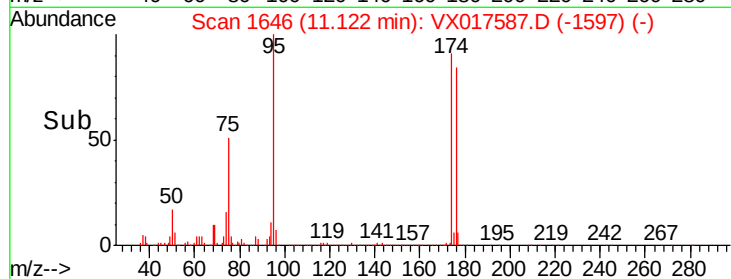
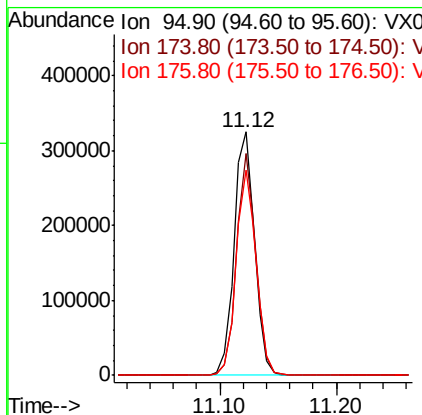
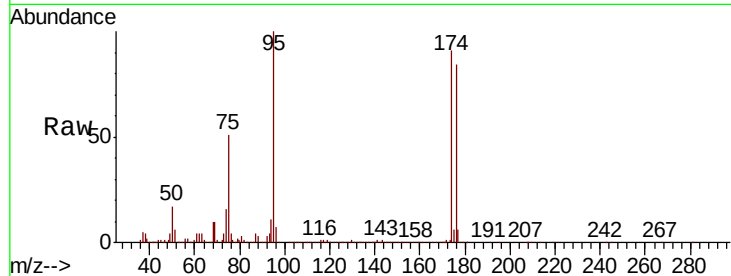




#62
4-Bromofluorobenzene
Concen: 58.537 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

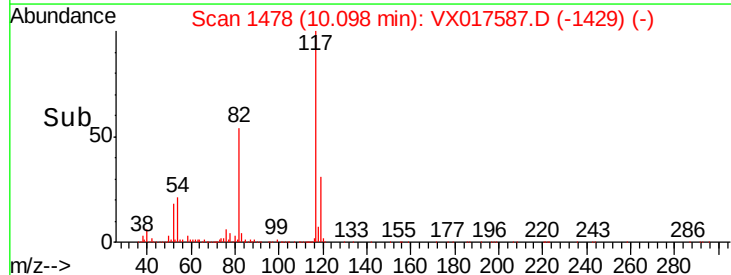
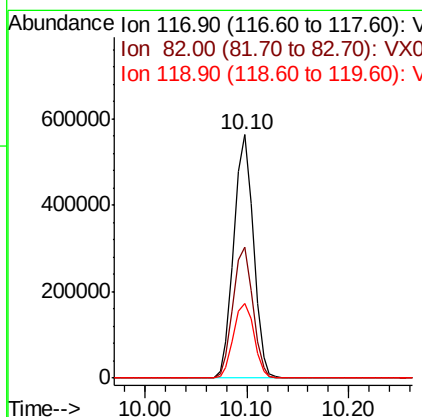
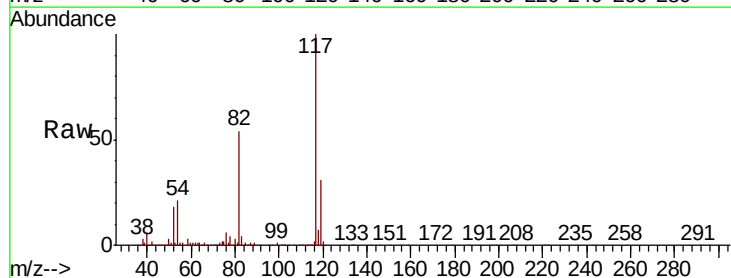
Instrument :
MSVOA_X
ClientSampleId :

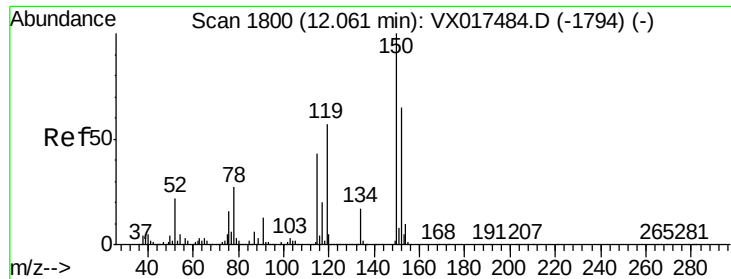
Tot Ion	95	Resp	398706
Ion Ratio	Lower	Upper	
95	100		
174	85.7	0.0	169.0
176	82.6	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017587.D
Acq: 25 Jul 2020 11:49

Tgt Ion	117	Resp	747950
Ion Ratio	Lower	Upper	
117	100		
82	53.7	44.0	66.0
119	30.7	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

Instrument :

MSVOA_X

ClientSampleId :

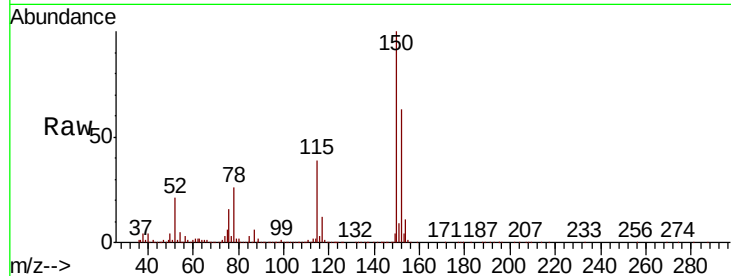
Tot Ion:152 Resp: 421548

Ion Ratio Lower Upper

152 100

115 58.2 65.5 196.6#

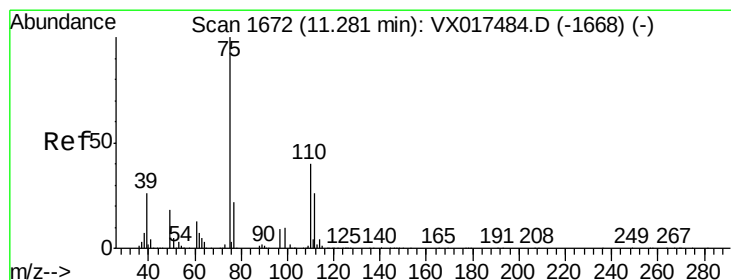
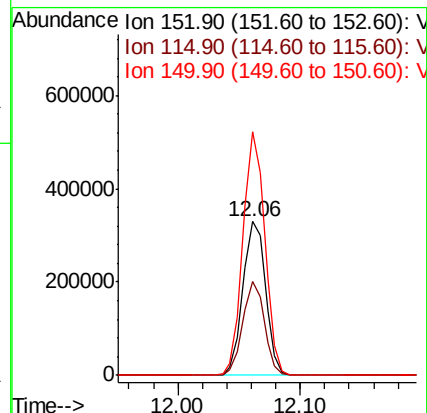
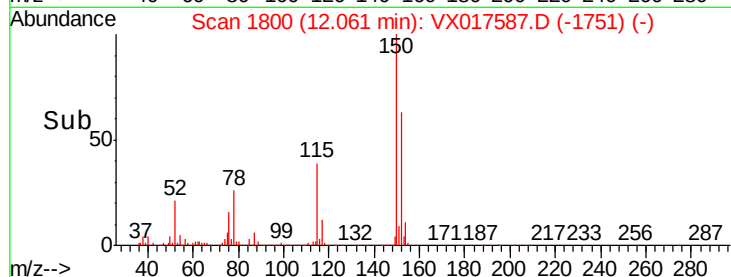
150 152.7 0.0 412.6



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: 23.301 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017587.D

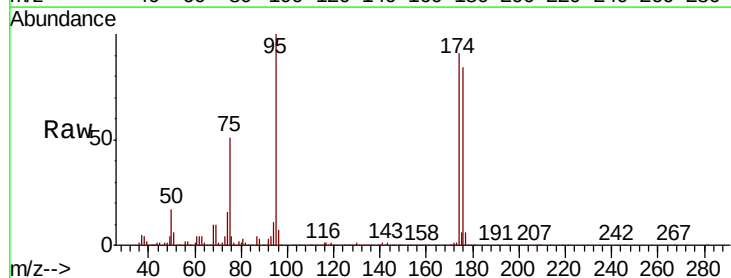
Acq: 25 Jul 2020 11:49

Tgt Ion: 75 Resp: 202057

Ion Ratio Lower Upper

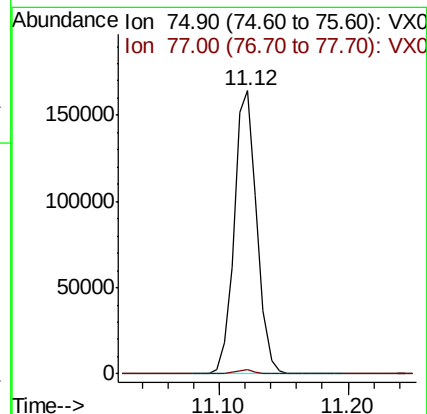
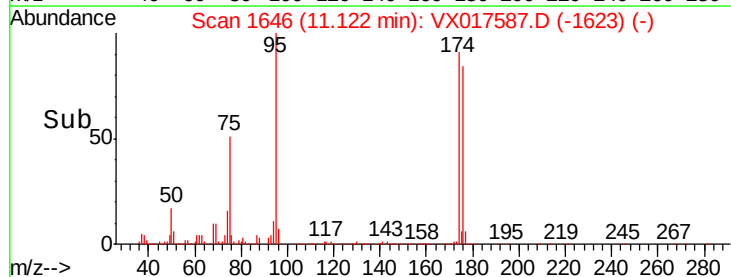
75 100

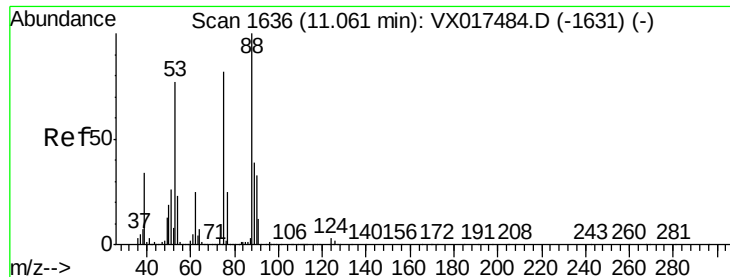
77 1.2 21.8 65.3#



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: 58.714 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

Instrument :

MSVOA_X

ClientSampled :

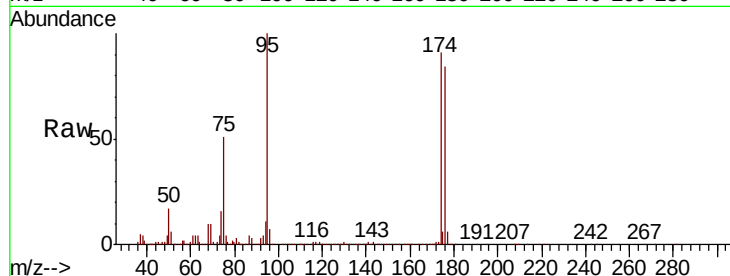
Tot Ion: 75 Resp: 202057

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

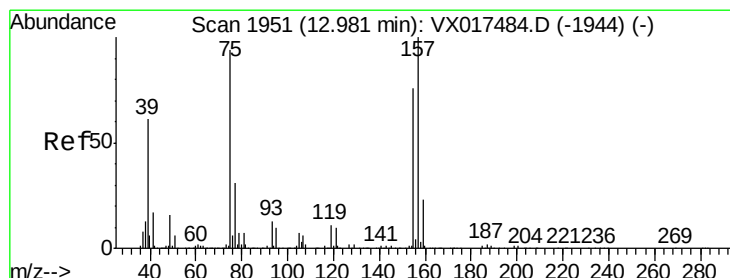
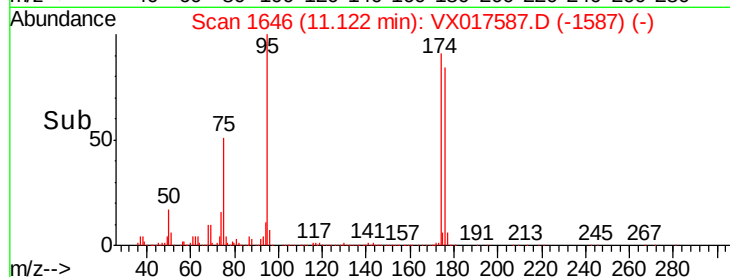
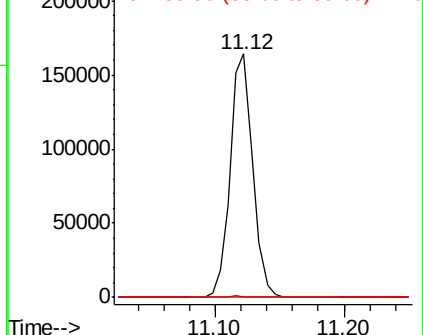
89 0.0 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.668 ug/l

RT: 12.98 min Scan# 1950

Delta R.T. -0.01 min

Lab File: VX017587.D

Acq: 25 Jul 2020 11:49

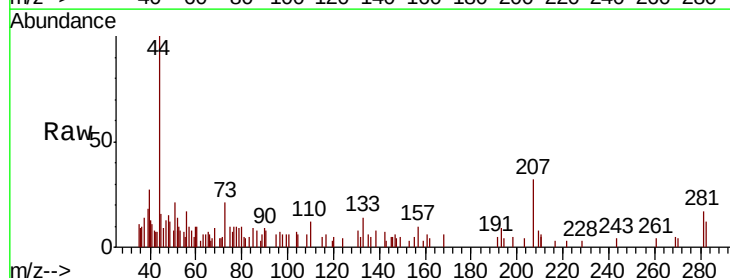
Tgt Ion: 75 Resp: 245

Ion Ratio Lower Upper

75 100

155 113.9 42.3 126.8

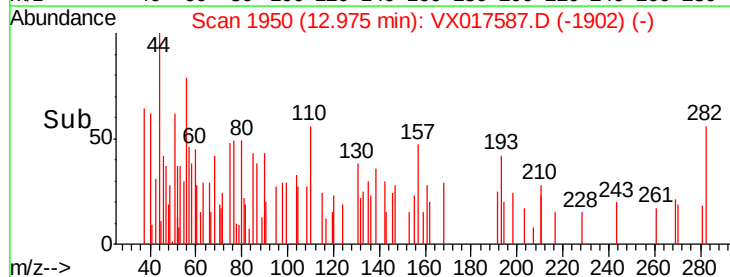
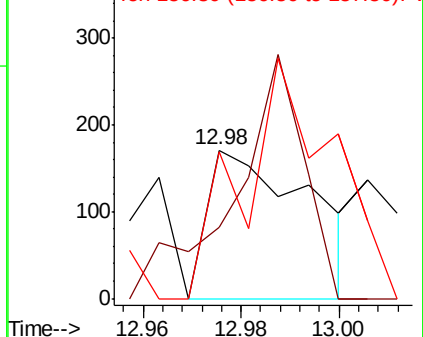
157 144.1 54.3 162.9

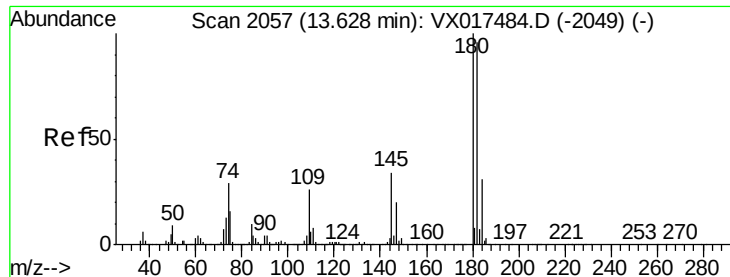


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

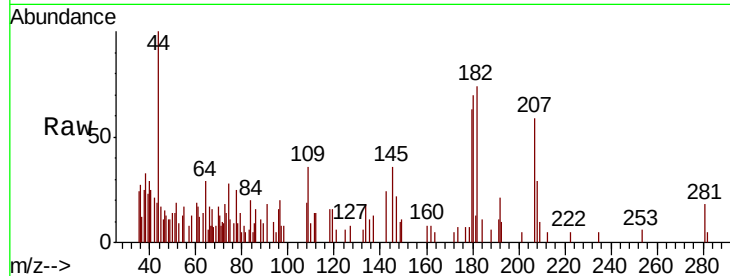




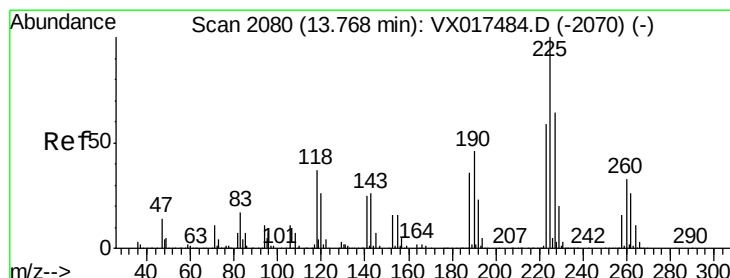
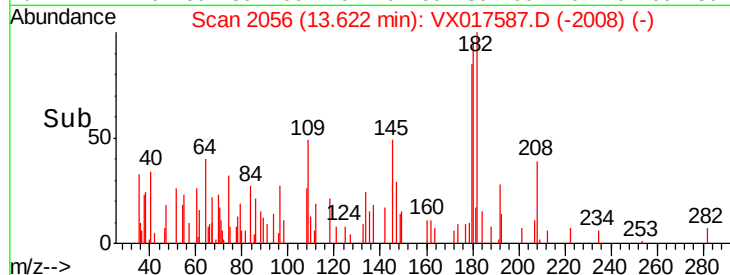
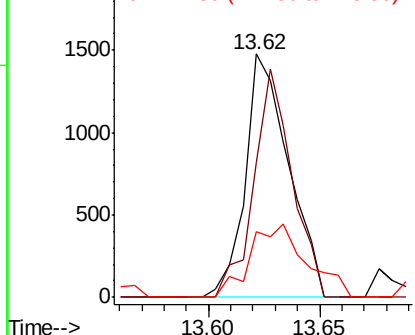
#93
 1,2,4-Trichlorobenzene
 Concen: 0.215 ug/l
 RT: 13.62 min Scan# 2056
 Delta R.T. -0.01 min
 Lab File: VX017587.D
 Acq: 25 Jul 2020 11:49

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	82.7	47.5	142.6
145	39.5	15.4	46.4

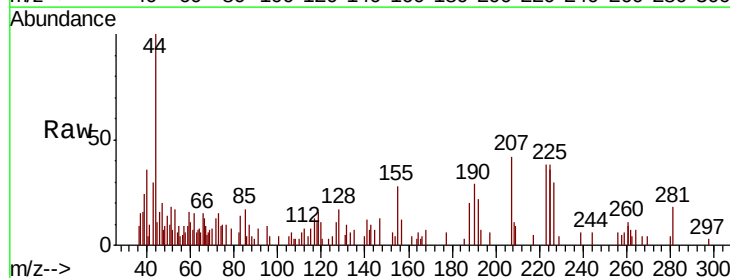


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 0.285 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX017587.D
 Acq: 25 Jul 2020 11:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	52.2	30.3	90.9
227	50.9	31.1	93.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

