

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019319.D
 Acq On : 05 Nov 2020 17:10
 Operator : JC/MD
 Sample : PB132824ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 06 01:09:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	280796	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	497931	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	476948	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	235038	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	203541	56.21	ug/l	0.00
Spiked Amount			Recovery	=	112.42%	
35) Dibromofluoromethane	5.46	113	159768	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
50) Toluene-d8	8.70	98	621789	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
62) 4-Bromofluorobenzene	11.12	95	236689	53.01	ug/l	0.00
Spiked Amount			Recovery	=	106.02%	

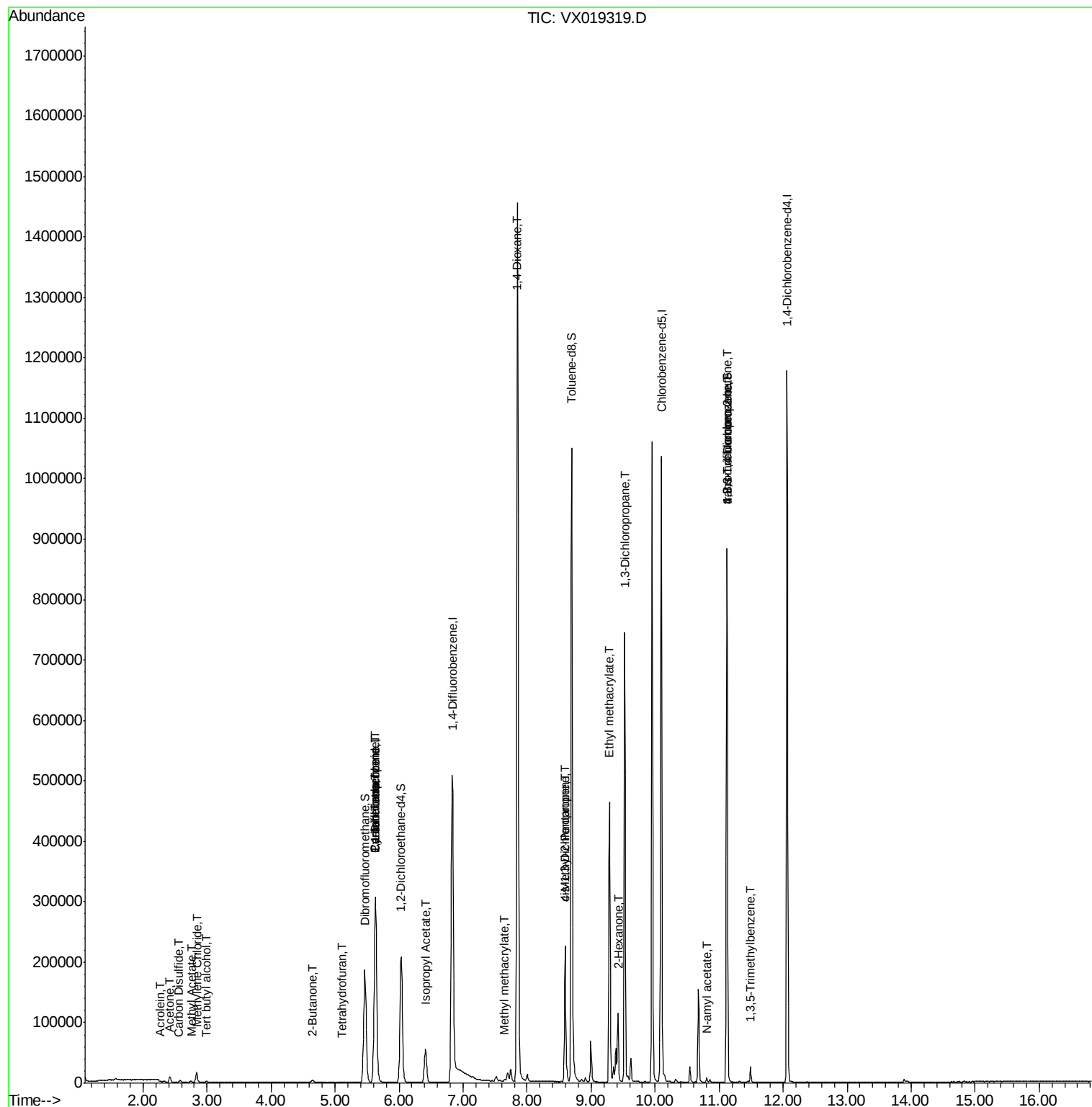
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.99	59	1333	1.864	ug/l #	72
13) Acrolein	2.26	56	81	5.895	ug/l #	16
16) Acetone	2.42	43	9109	7.292	ug/l	93
17) Carbon Disulfide	2.56	76	267	0.794	ug/l #	75
18) Methyl Acetate	2.75	43	3575	1.177	ug/l #	86
20) Methylene Chloride	2.84	84	7964	2.539	ug/l	87
25) 2-Butanone	4.64	43	1530	0.777	ug/l	94
29) Tetrahydrofuran	5.11	42	1032	0.832	ug/l #	61
31) Cyclohexane	5.64	56	6202	1.355	ug/l #	2
36) 1,1-Dichloropropene	5.62	75	23264	5.060	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29512	6.297	ug/l #	17
43) Isopropyl Acetate	6.41	43	75419	10.551	ug/l	99
48) Methyl methacrylate	7.65	41	4396	1.278	ug/l #	9
49) 1,4-Dioxane	7.85	88	267	3.490	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	74688	18.179	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	36660	6.558	ug/l #	62
56) Ethyl methacrylate	9.29	69	1189	0.237	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6656	1.190	ug/l #	43
59) 2-Hexanone	9.42	43	69906	22.352	ug/l #	20
74) N-amyl acetate	10.81	43	3071	0.505	ug/l #	45
76) 1,2,3-Trichloropropane	11.12	75	120826	24.897	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	11257	0.801	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	120826	65.554	ug/l #	12

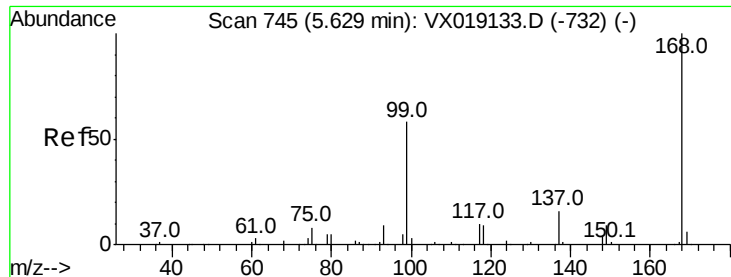
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 13:55:07 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

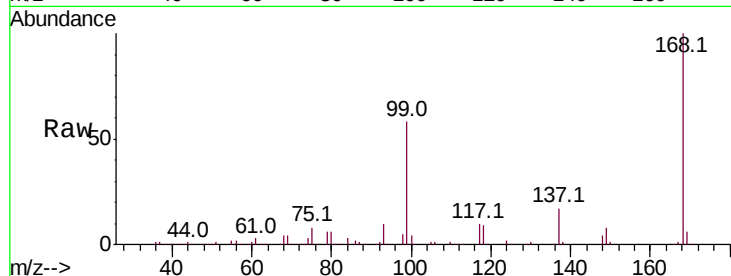
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 280796

Ion Ratio Lower Upper

168 100

99 58.0 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

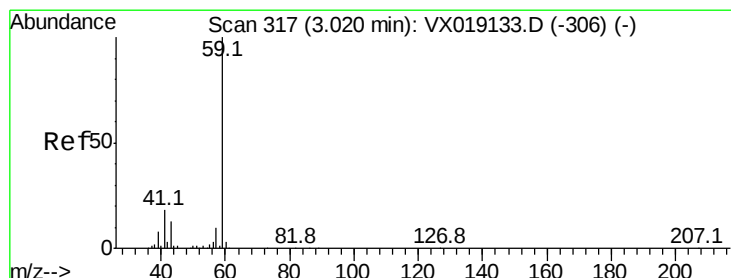
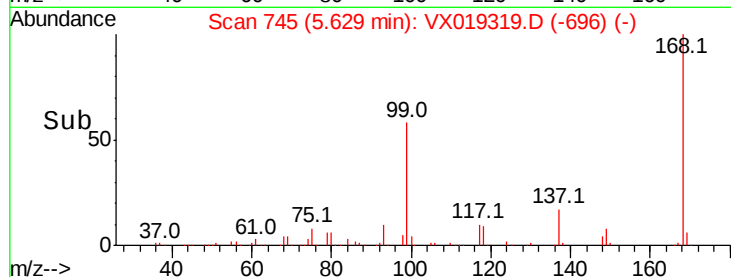
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.864 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.03 min

Lab File: VX019319.D

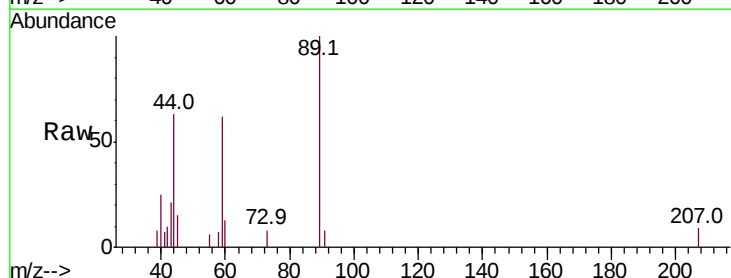
Acq: 05 Nov 2020 17:10

Tgt Ion: 59 Resp: 1333

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2.99

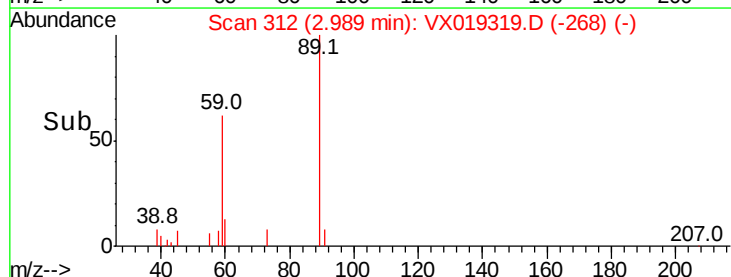
600

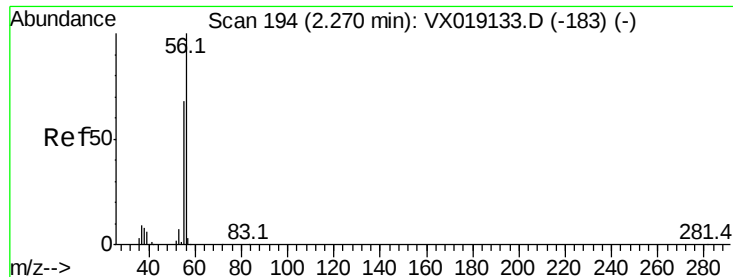
400

200

0

Time-->





#13

Acrolein

Concen: 5.895 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

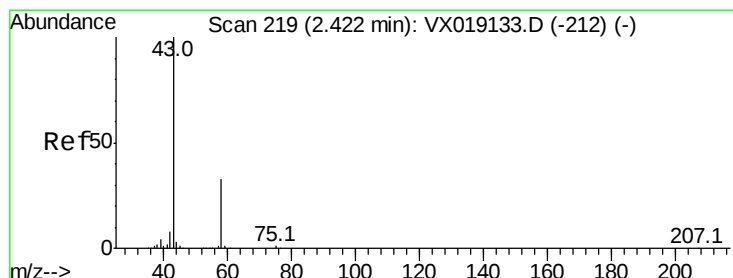
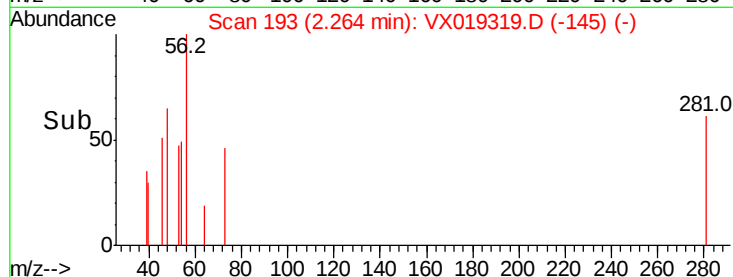
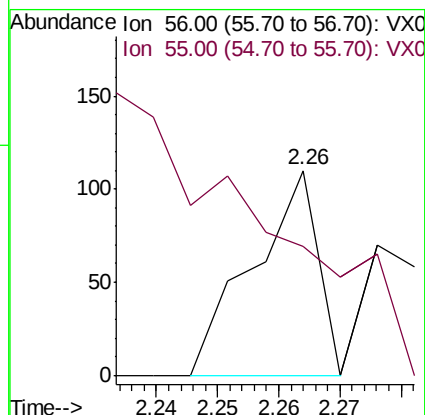
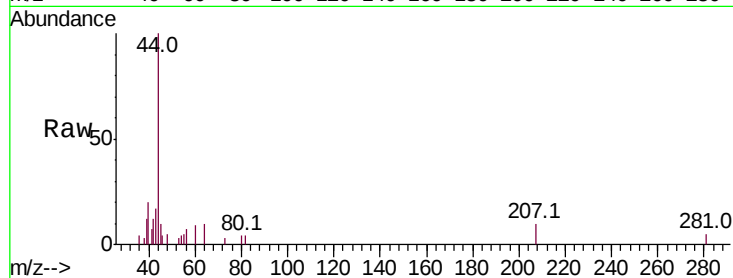
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 81

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#



#16

Acetone

Concen: 7.292 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX019319.D

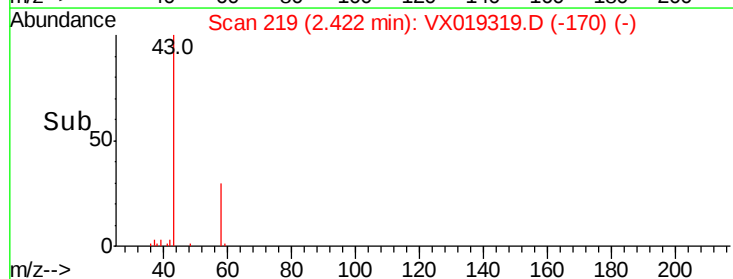
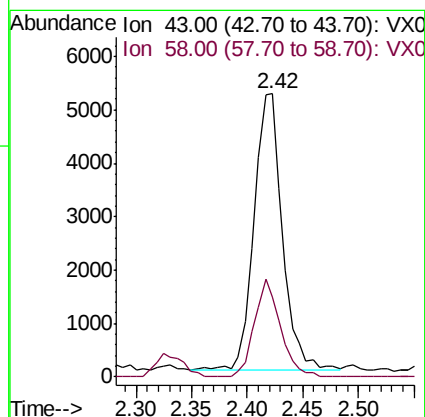
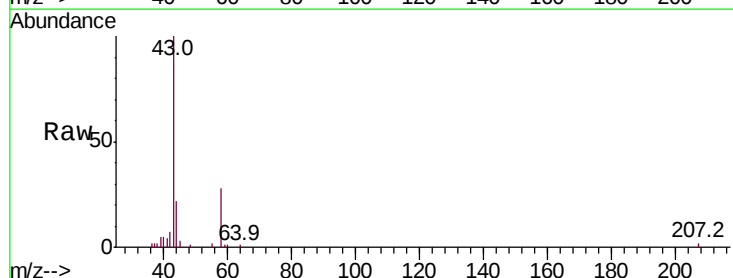
Acq: 05 Nov 2020 17:10

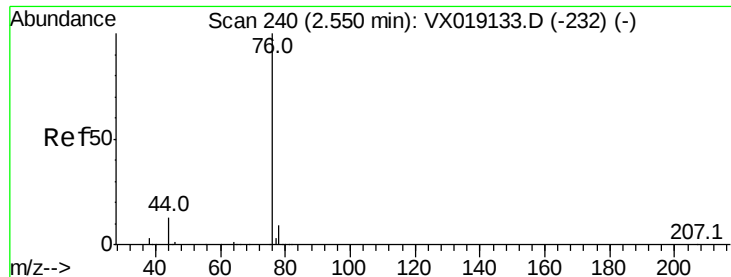
Tgt Ion: 43 Resp: 9109

Ion Ratio Lower Upper

43 100

58 28.8 26.3 39.5

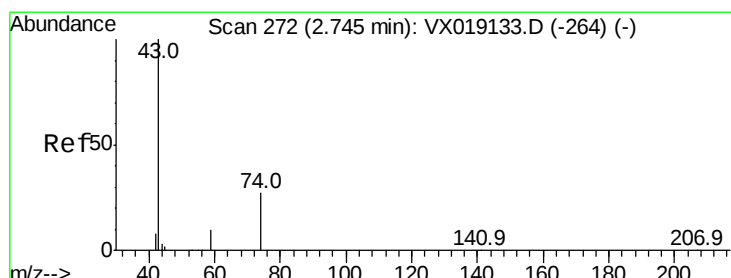
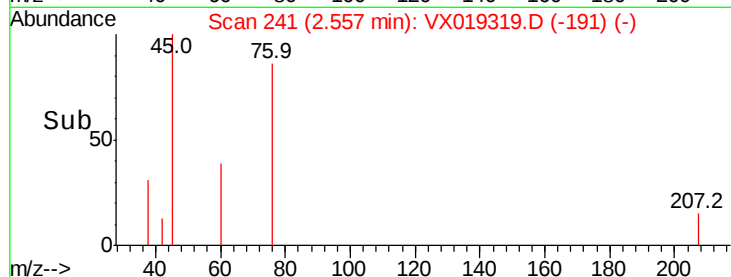
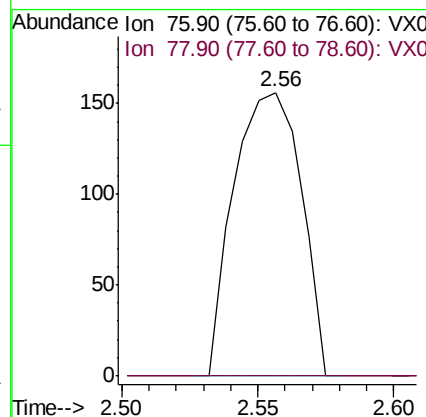
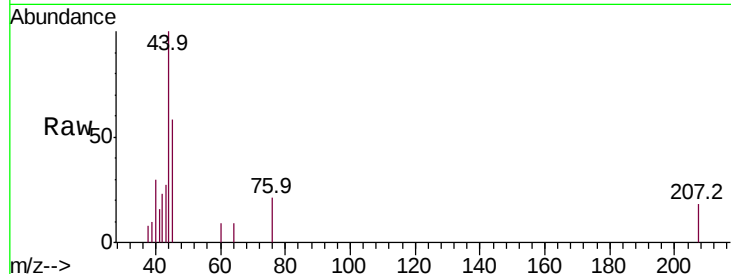




#17
Carbon Disulfide
Concen: 0.794 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX019319.D
Acq: 05 Nov 2020 17:10

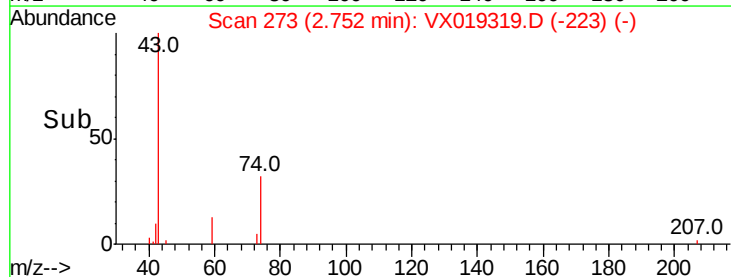
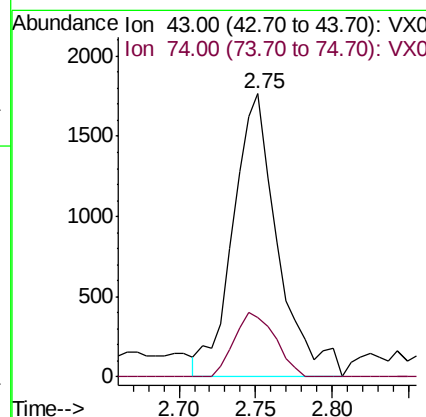
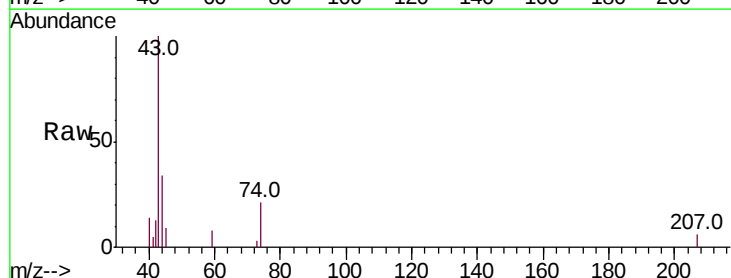
Instrument :
MSVOA_X
ClientSampleId :

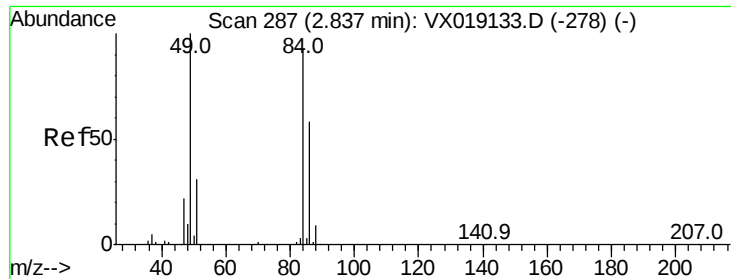
Tot Ion: 76 Resp: 267
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: 1.177 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019319.D
Acq: 05 Nov 2020 17:10

Tgt Ion: 43 Resp: 3575
Ion Ratio Lower Upper
43 100
74 20.8 22.6 33.8#

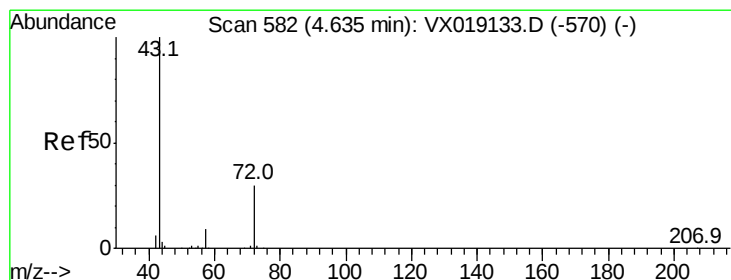
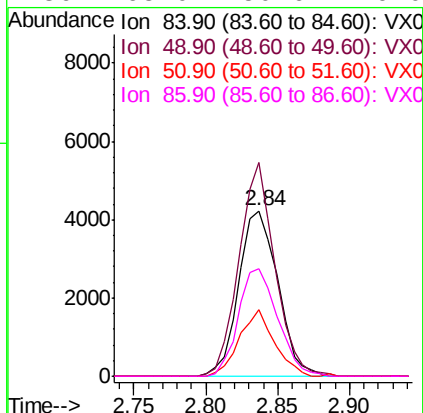
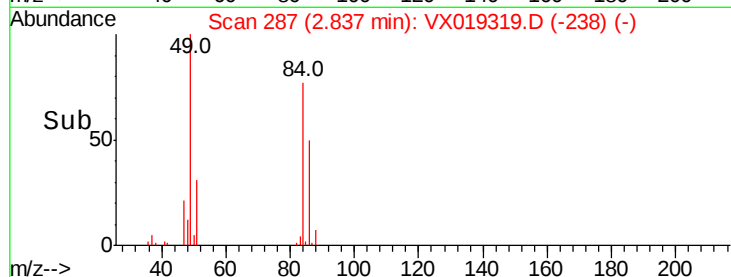
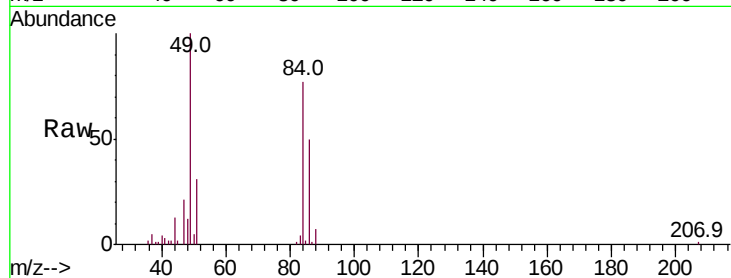




#20
Methvlene Chloride
Concen: 2.539 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019319.D
Acq: 05 Nov 2020 17:10

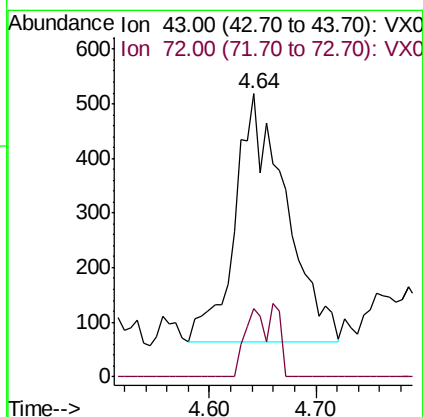
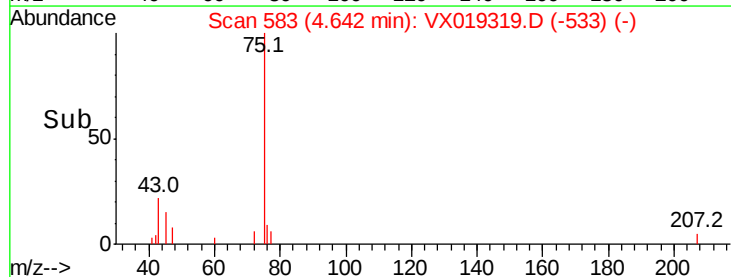
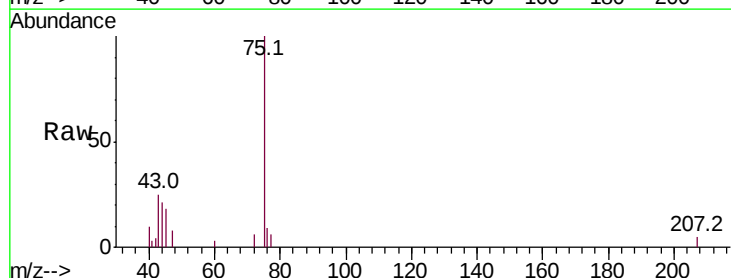
Instrument :
MSVOA_X
ClientSampleId :

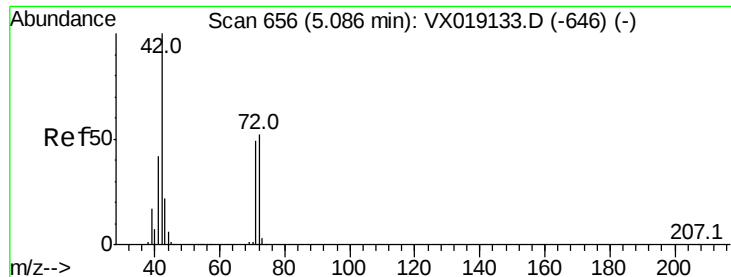
Tot Ion:	84	Resp:	7964
Ion	Ratio	Lower	Upper
84	100		
49	129.2	86.8	130.2
51	40.1	27.3	40.9
86	65.0	50.6	76.0



#25
2-Butanone
Concen: 0.777 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX019319.D
Acq: 05 Nov 2020 17:10

Tgt Ion:	43	Resp:	1530
Ion	Ratio	Lower	Upper
43	100		
72	27.5	24.6	36.8





#29

Tetrahydrofuran

Concen: 0.832 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

Instrument :

MSVOA_X

ClientSampleId :

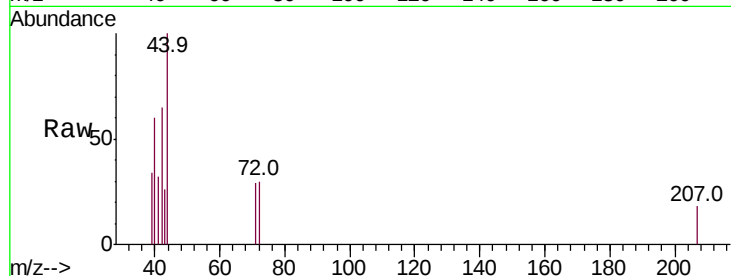
Tot Ion: 42 Resp: 1032

Ion Ratio Lower Upper

42 100

72 27.6 42.6 63.8#

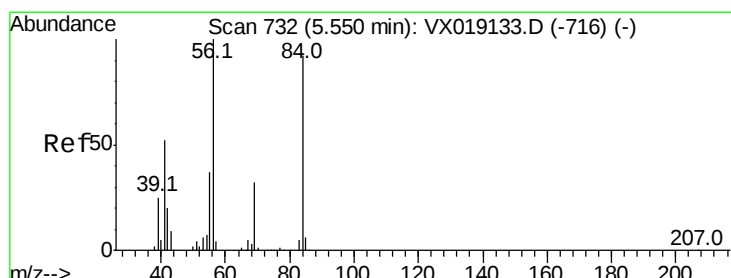
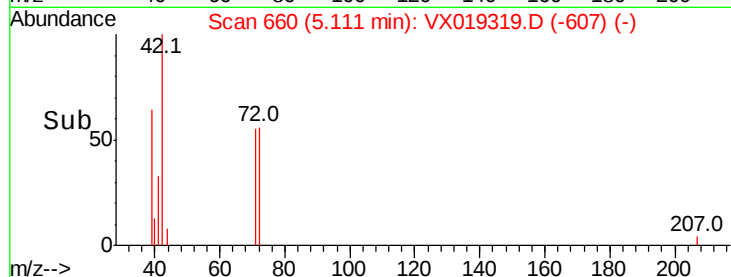
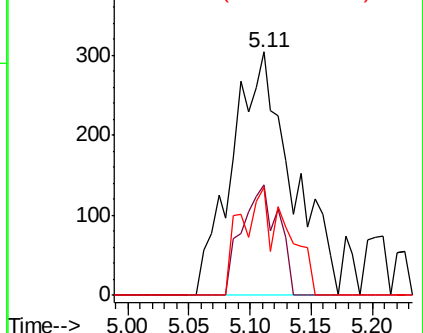
71 20.5 39.7 59.5#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.355 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

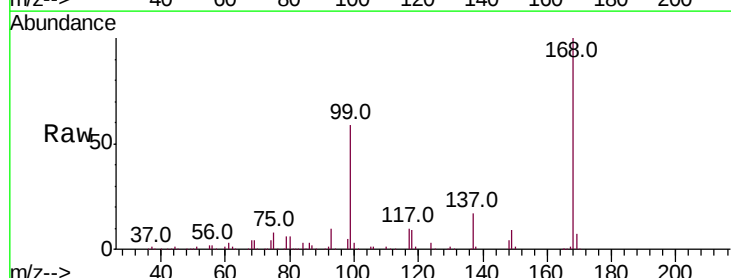
Tgt Ion: 56 Resp: 6202

Ion Ratio Lower Upper

56 100

69 167.9 25.9 38.9#

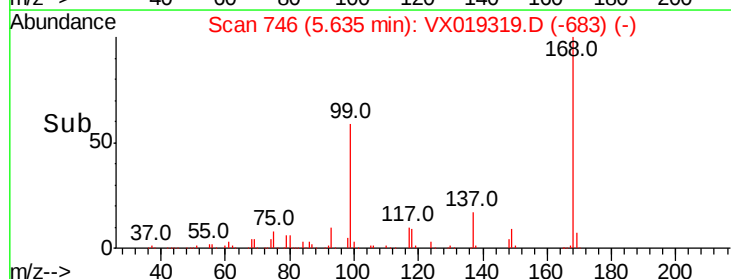
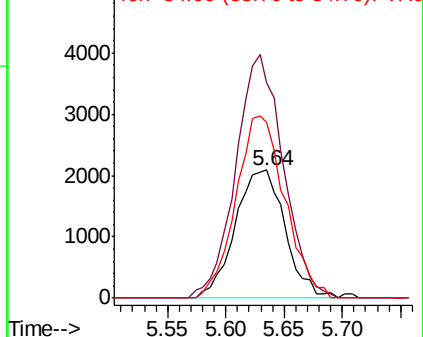
84 136.8 73.4 110.2#

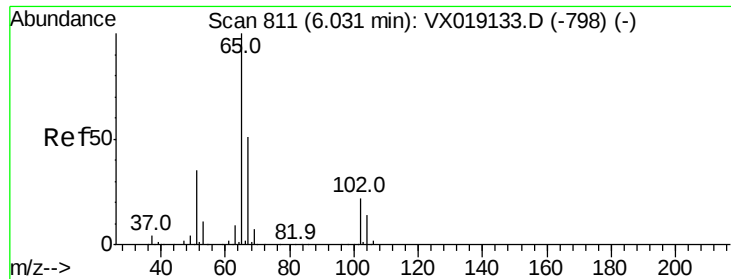


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 56.208 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

Instrument :

MSVOA_X

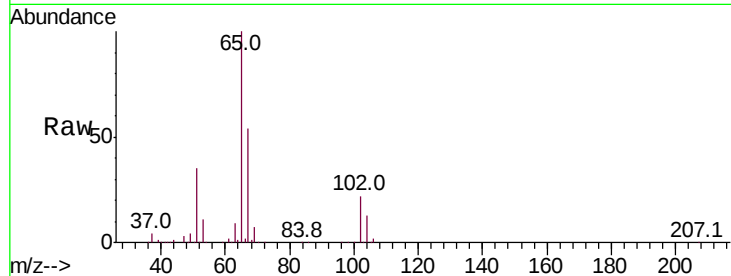
ClientSampleId :

Tot Ion: 65 Resp: 203541

Ion Ratio Lower Upper

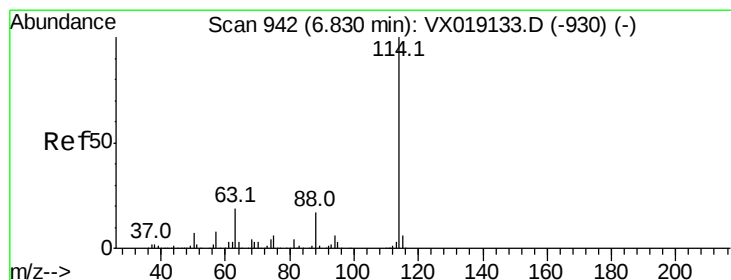
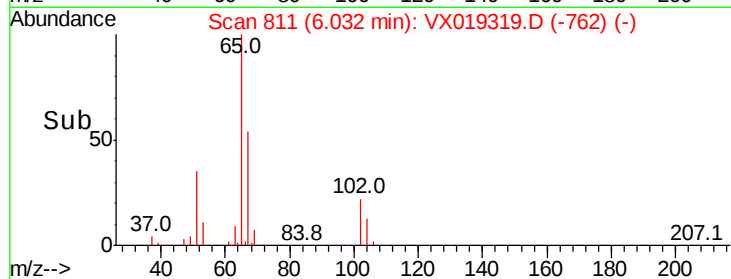
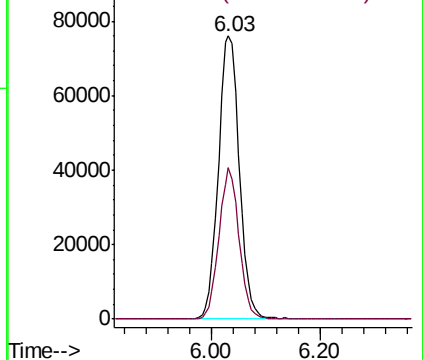
65 100

67 51.1 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

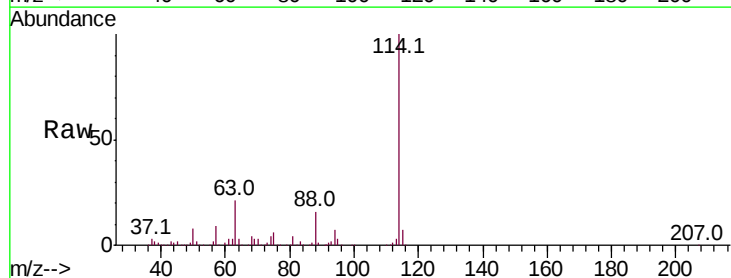
Tgt Ion: 114 Resp: 497931

Ion Ratio Lower Upper

114 100

63 21.3 0.0 38.8

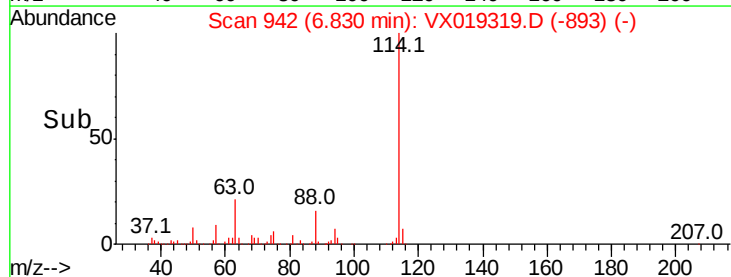
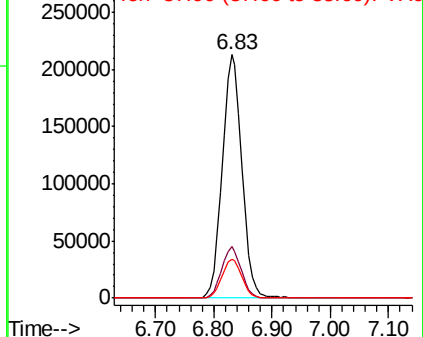
88 15.8 0.0 34.2

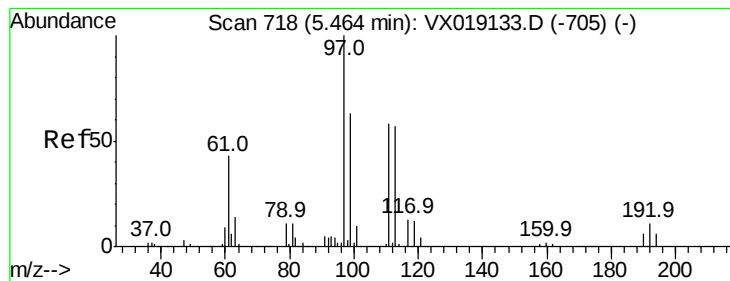


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.082 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

Instrument :

MSVOA_X

ClientSampled :

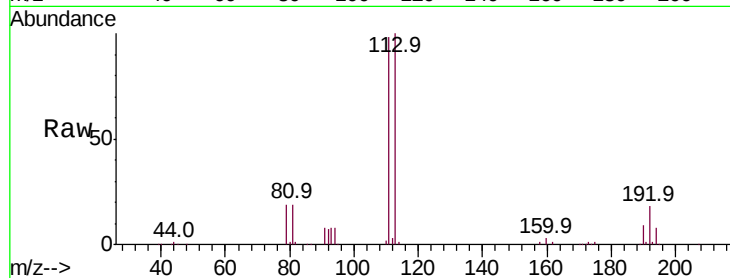
Tot Ion:113 Resp: 159768

Ion Ratio Lower Upper

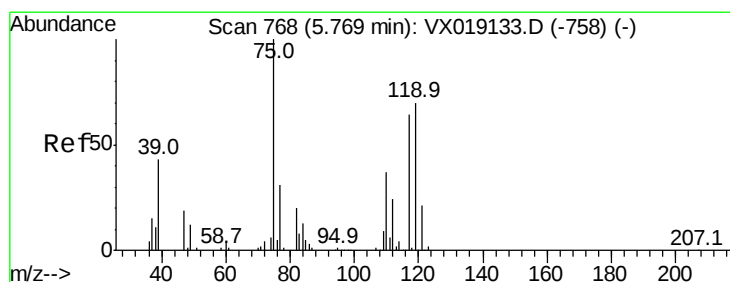
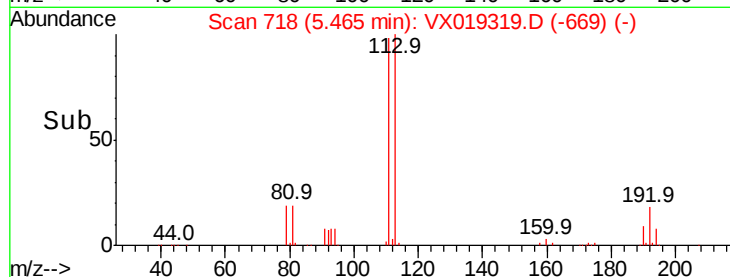
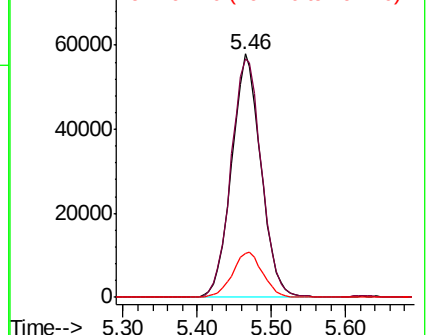
113 100

111 102.0 82.3 123.5

192 19.2 16.2 24.2



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: 5.060 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

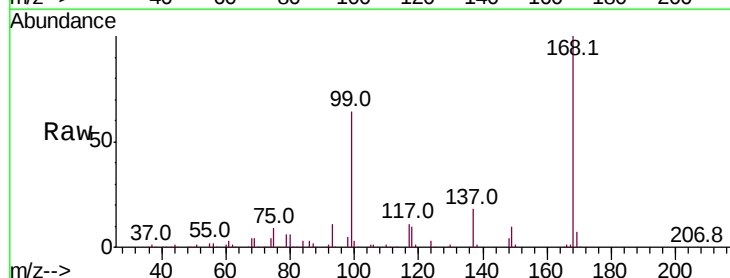
Tgt Ion: 75 Resp: 23264

Ion Ratio Lower Upper

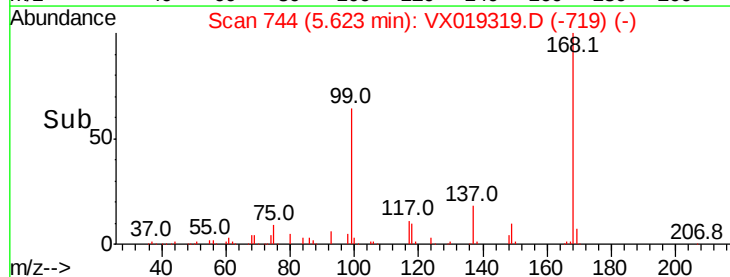
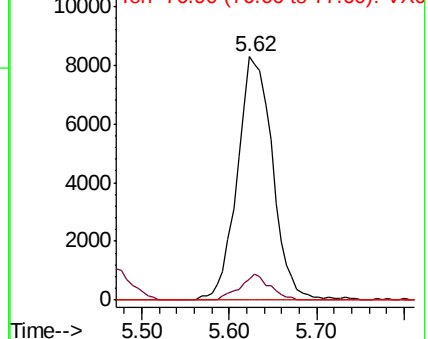
75 100

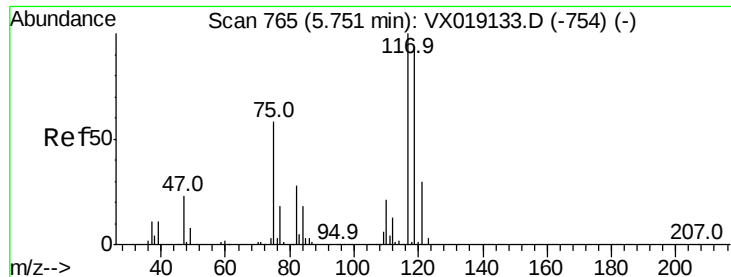
110 9.0 18.3 54.9#

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.297 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

Instrument :

MSVOA_X

ClientSampled :

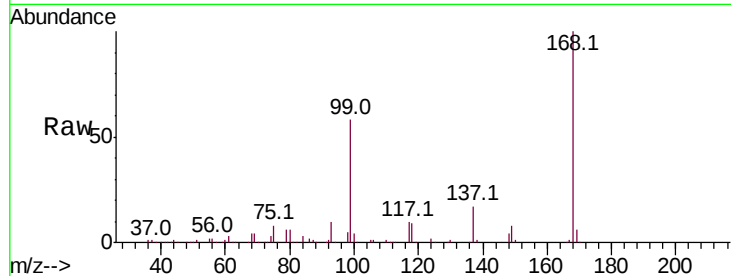
Tot Ion:117 Resp: 29512

Ion Ratio Lower Upper

117 100

119 4.9 75.0 112.6#

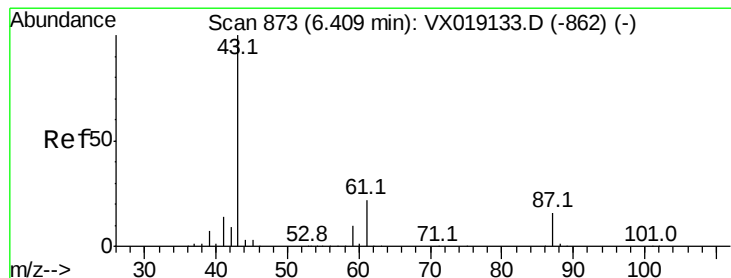
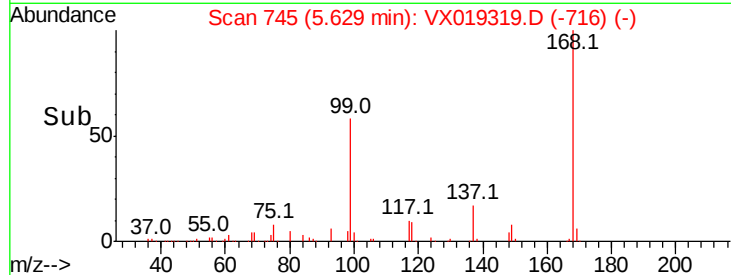
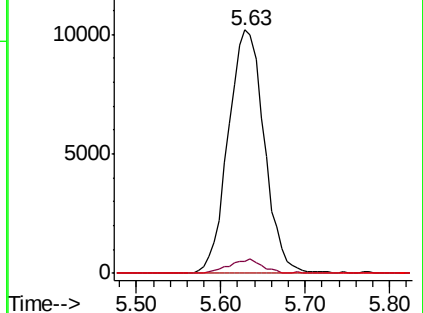
121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 10.551 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.00 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

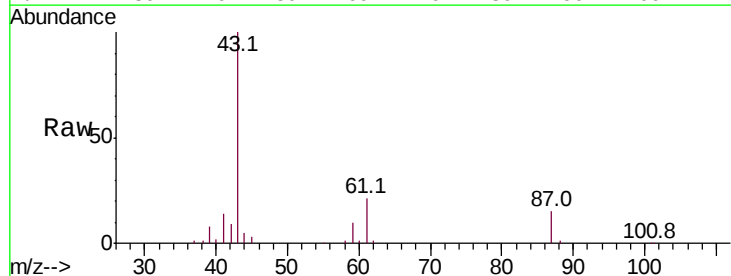
Tgt Ion: 43 Resp: 75419

Ion Ratio Lower Upper

43 100

61 21.8 17.8 26.6

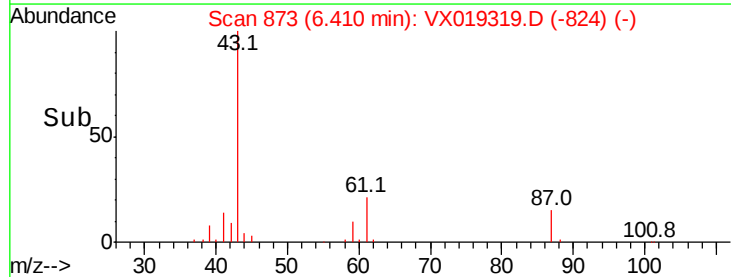
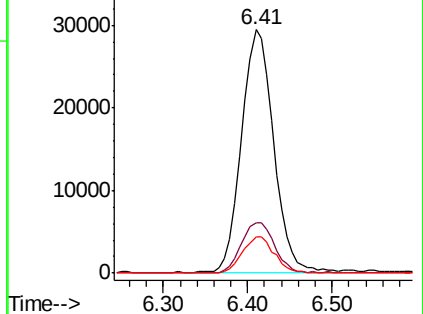
87 14.9 12.6 19.0

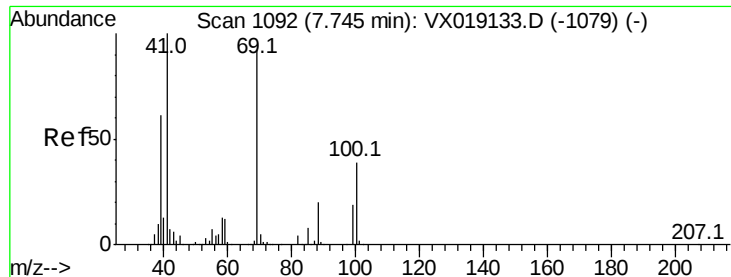


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

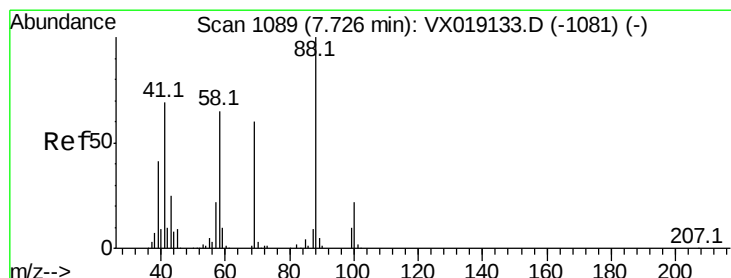
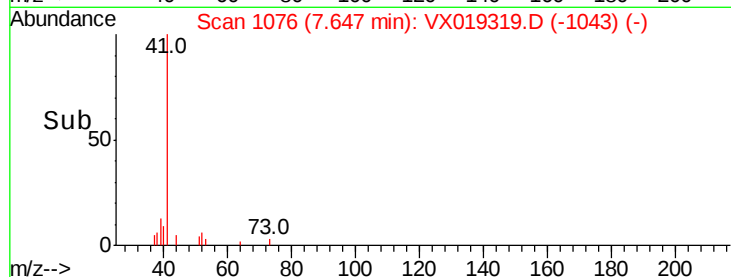
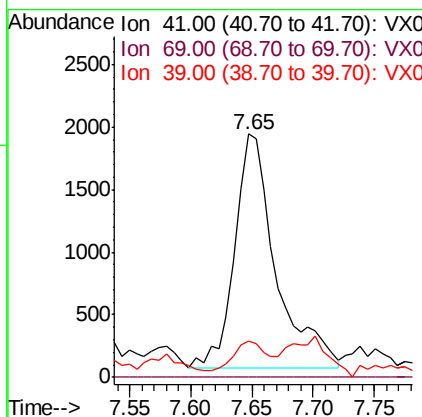
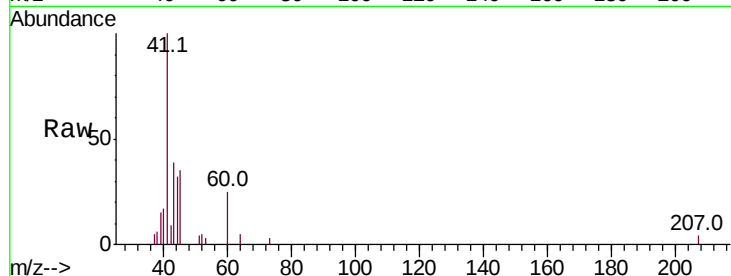




#48
Methvl methacrylate
Concen: 1.278 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.10 min
Lab File: VX019319.D
Acq: 05 Nov 2020 17:10

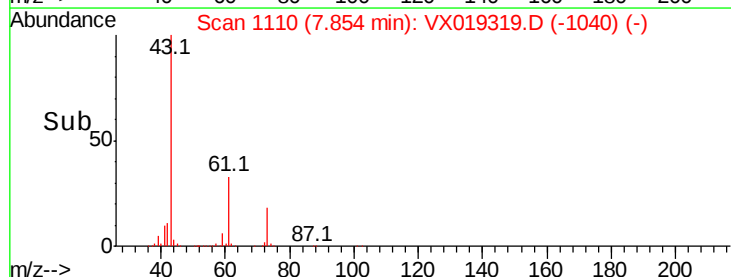
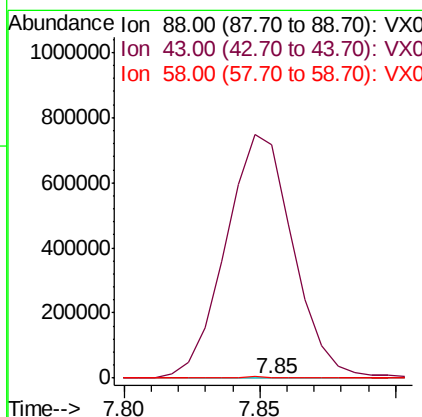
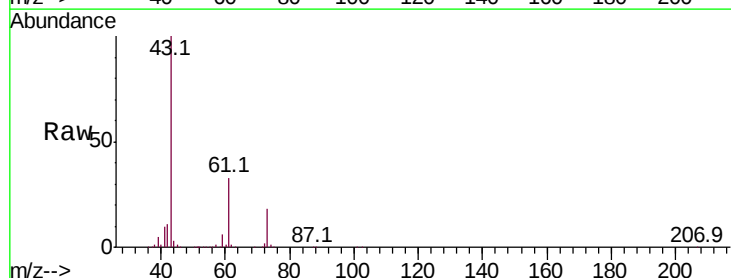
Instrument :
MSVOA_X
ClientSampled :

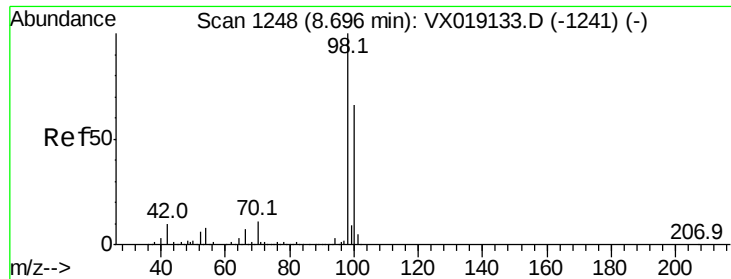
Tot Ion: 41 Resp: 4396
Ion Ratio Lower Upper
41 100
69 0.0 75.5 113.3#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 3.490 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.13 min
Lab File: VX019319.D
Acq: 05 Nov 2020 17:10

Tgt Ion: 88 Resp: 267
Ion Ratio Lower Upper
88 100
43 485149.8 23.0 34.6#
58 2242.3 52.2 78.2#

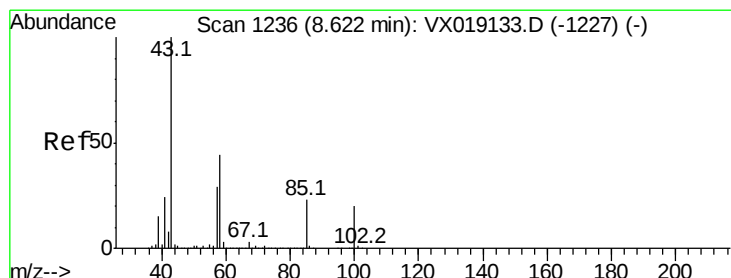
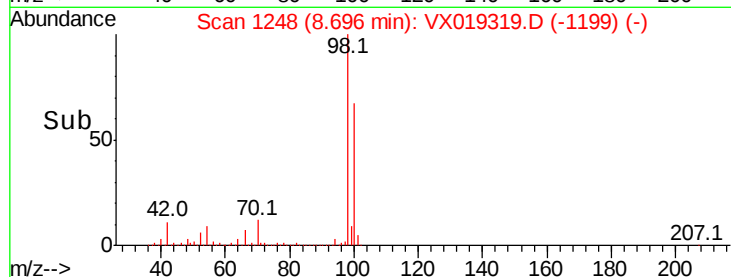
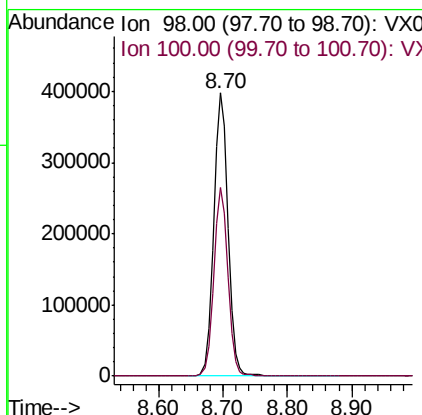
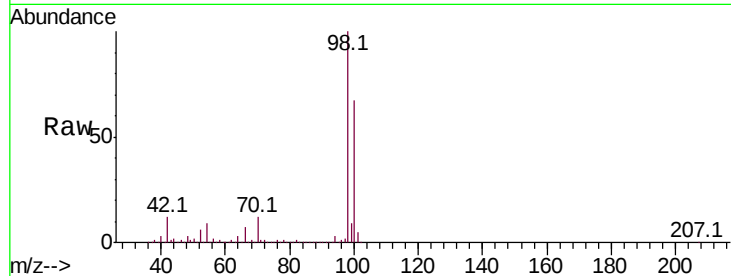




#50
Toluene-d8
Concen: 52.737 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019319.D
Acq: 05 Nov 2020 17:10

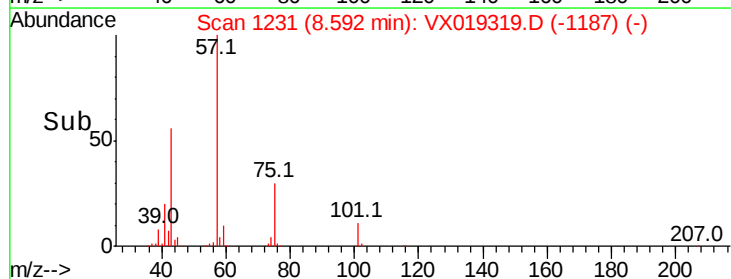
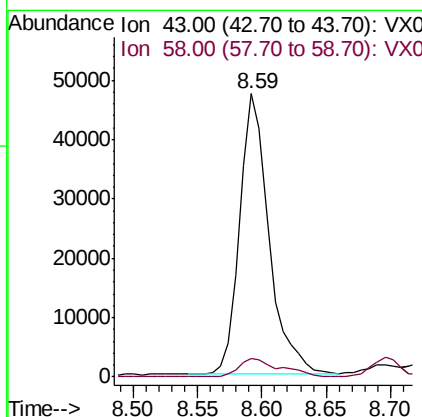
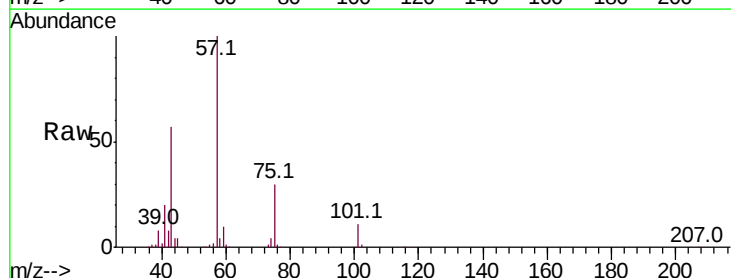
Instrument :
MSVOA_X
ClientSampleId :

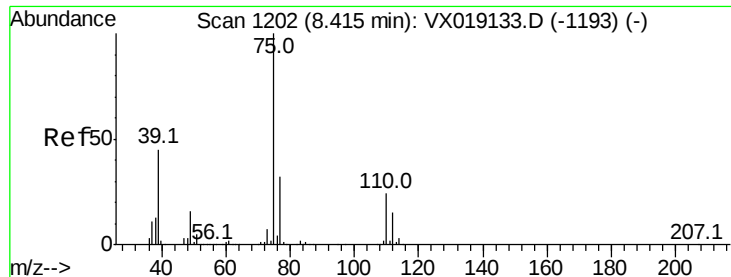
Tot Ion: 98 Resp: 621789
Ion Ratio Lower Upper
98 100
100 65.7 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 18.179 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX019319.D
Acq: 05 Nov 2020 17:10

Tgt Ion: 43 Resp: 74688
Ion Ratio Lower Upper
43 100
58 9.4 35.0 52.4#



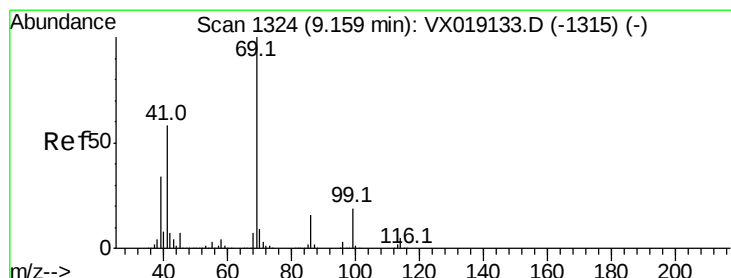
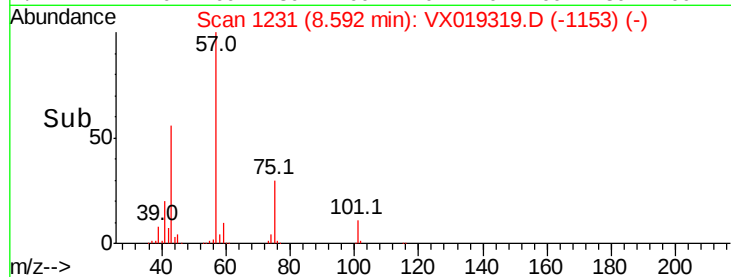
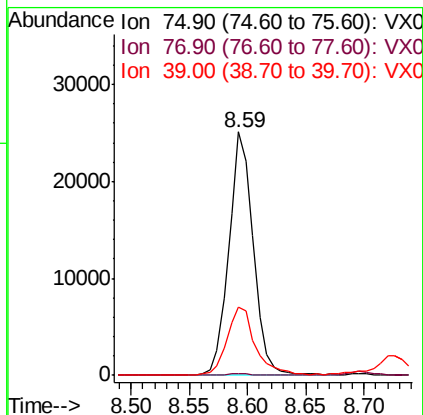
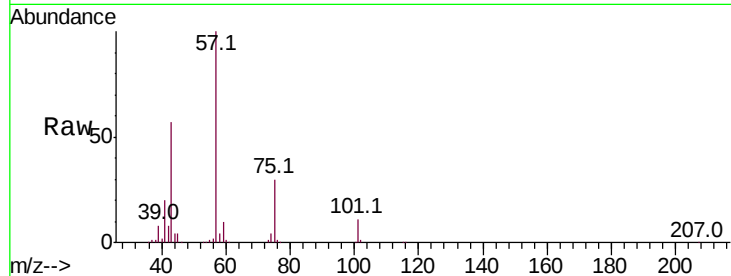


#54

cis-1,3-Dichloropropene
 Concen: 6.558 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019319.D
 Acq: 05 Nov 2020 17:10

Instrument :
 MSVOA_X
 ClientSampled :

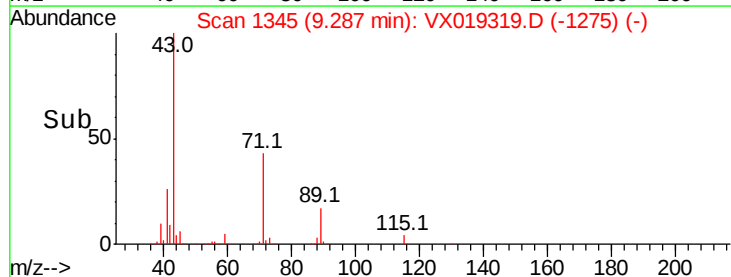
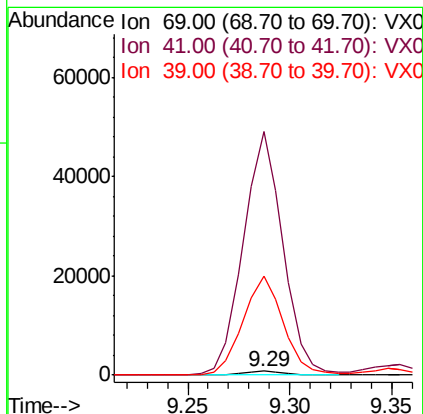
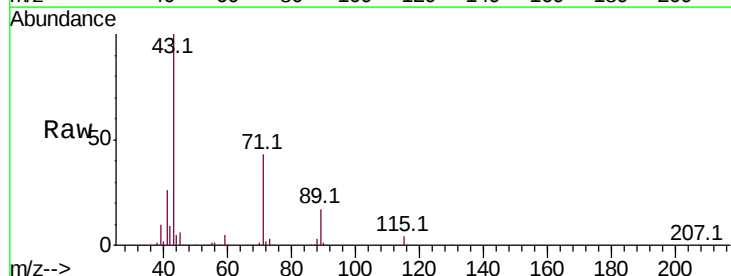
Tot Ion: 75 Resp: 36660
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.5 38.3#
 39 28.1 36.2 54.2#

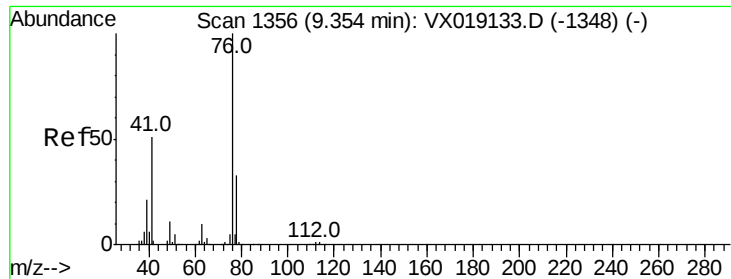


#56

Ethyl methacrylate
 Concen: 0.237 ug/l
 RT: 9.29 min Scan# 1345
 Delta R.T. 0.13 min
 Lab File: VX019319.D
 Acq: 05 Nov 2020 17:10

Tgt Ion: 69 Resp: 1189
 Ion Ratio Lower Upper
 69 100
 41 5562.7 46.5 69.7#
 39 2324.9 27.6 41.4#





#57

1,3-Dichloropropane

Concen: 1.190 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

Instrument :

MSVOA_X

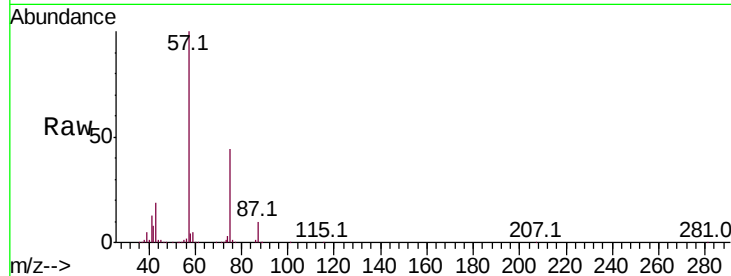
ClientSampled :

Tot Ion: 76 Resp: 6656

Ion Ratio Lower Upper

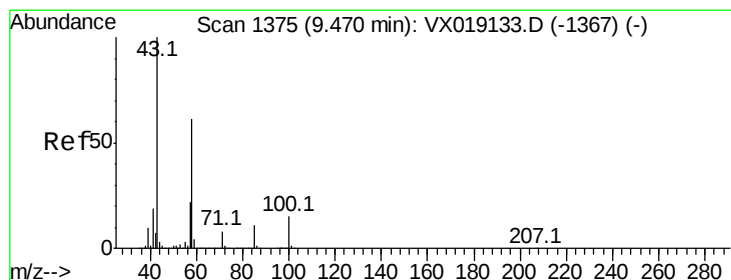
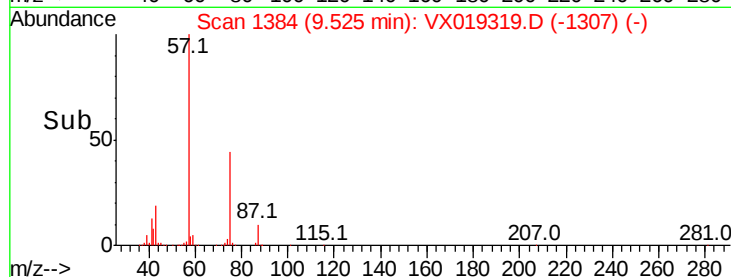
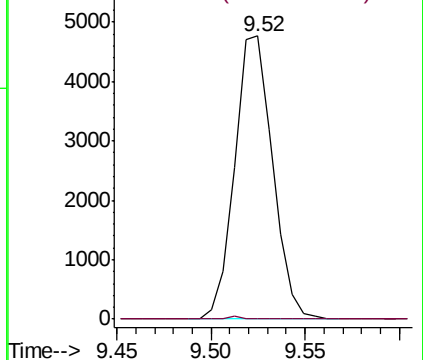
76 100

78 0.3 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 22.352 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX019319.D

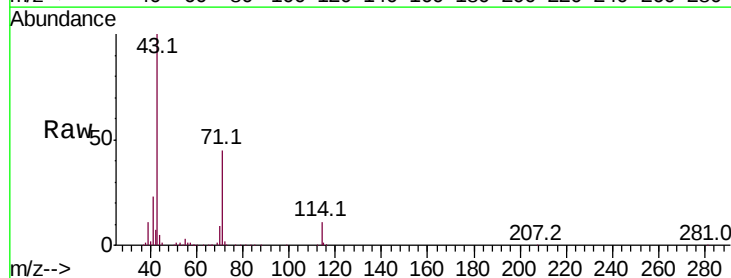
Acq: 05 Nov 2020 17:10

Tgt Ion: 43 Resp: 69906

Ion Ratio Lower Upper

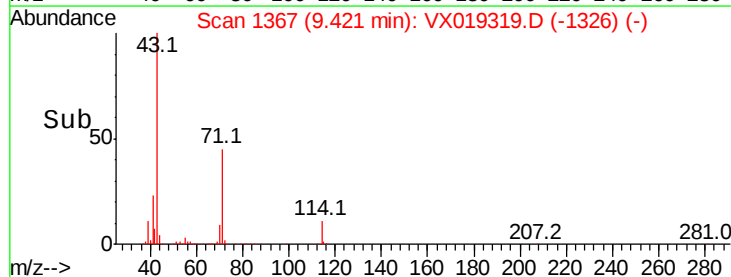
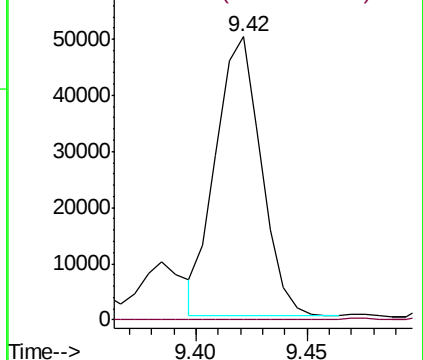
43 100

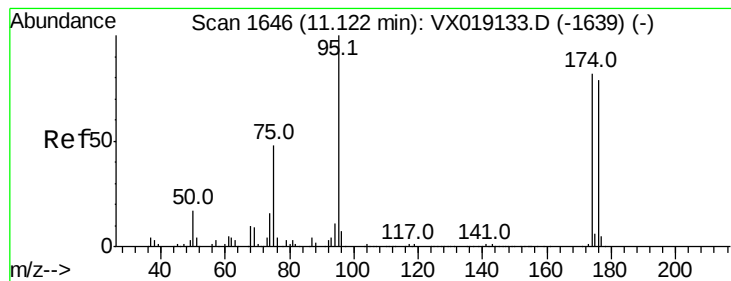
58 0.0 30.5 91.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.009 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

Instrument :

MSVOA_X

ClientSampleId :

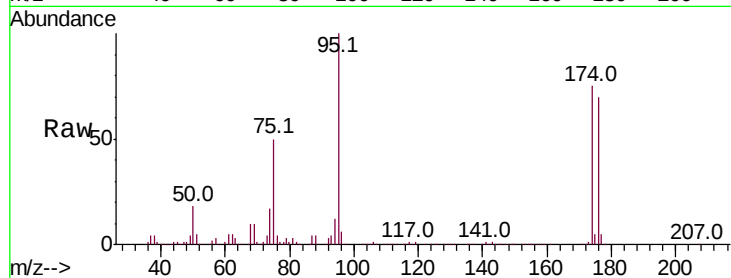
Tot Ion: 95 Resp: 236689

Ion Ratio Lower Upper

95 100

174 75.4 0.0 156.0

176 70.4 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX019319.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX019319.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX019319.D (-1639) (-)

11.12

200000

150000

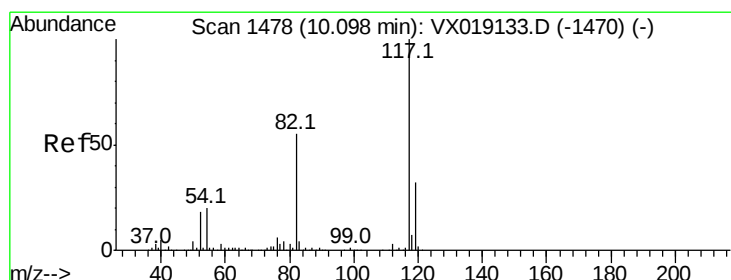
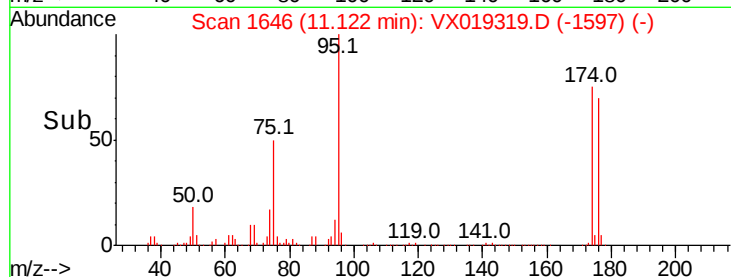
100000

50000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

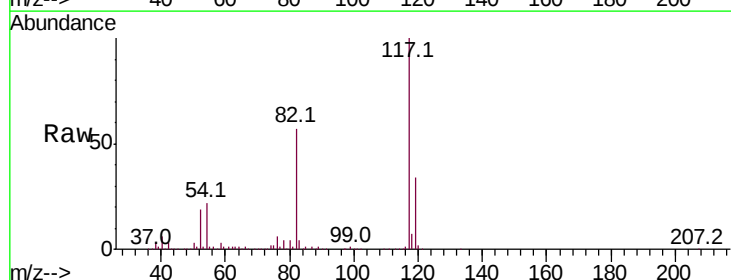
Tgt Ion: 117 Resp: 476948

Ion Ratio Lower Upper

117 100

82 57.4 43.6 65.4

119 33.6 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VX019319.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019319.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019319.D (-1470) (-)

10.10

400000

300000

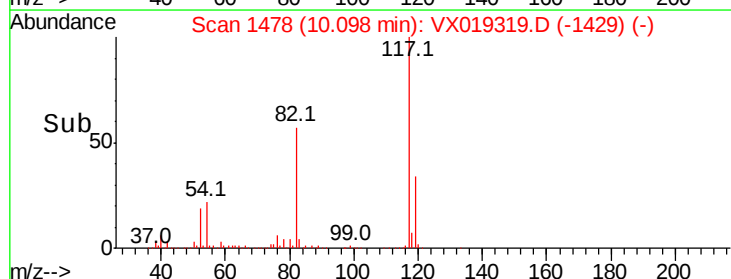
200000

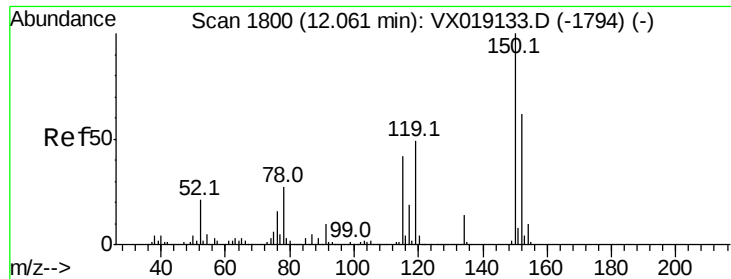
100000

0

10.00 10.10 10.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

Instrument :

MSVOA_X

ClientSampleId :

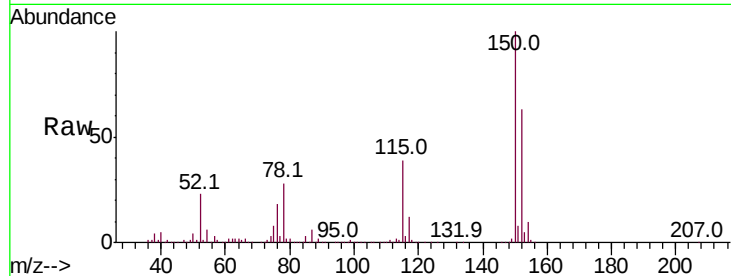
Tot Ion:152 Resp: 235038

Ion Ratio Lower Upper

152 100

115 61.6 41.9 125.7

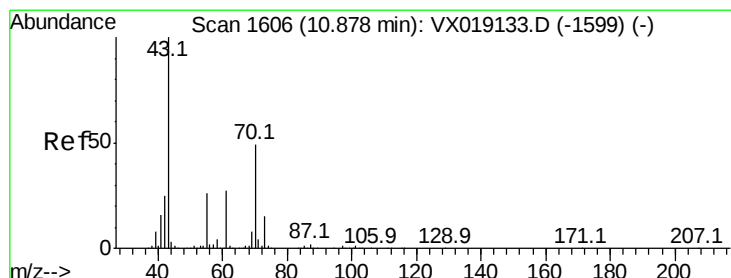
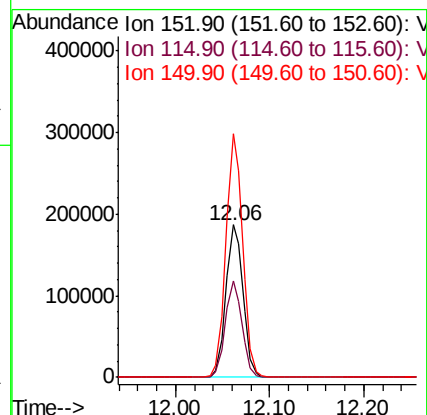
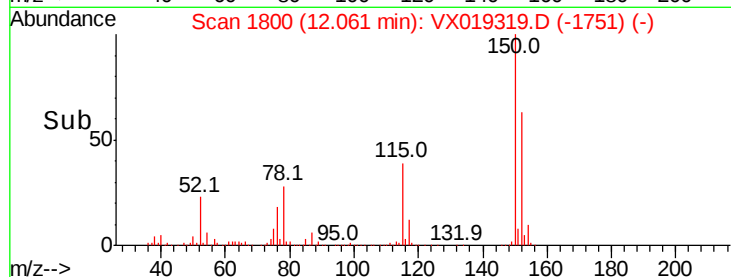
150 156.1 0.0 347.8



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



#74

N-ethyl acetate

Concen: 0.505 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

Tgt Ion: 43 Resp: 3071

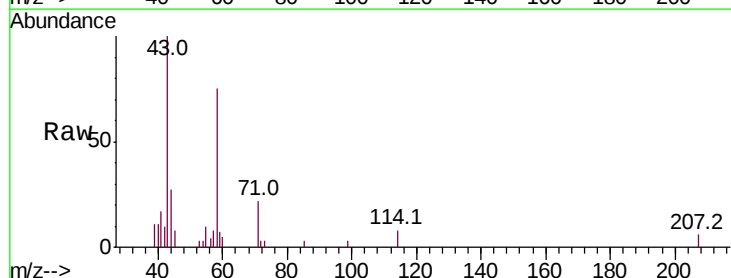
Ion Ratio Lower Upper

43 100

70 0.0 39.6 59.4#

55 12.4 20.7 31.1#

61 0.0 21.9 32.9#

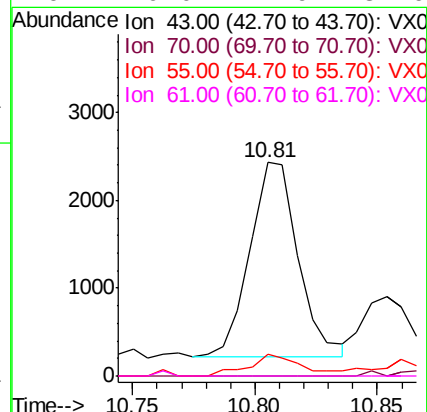
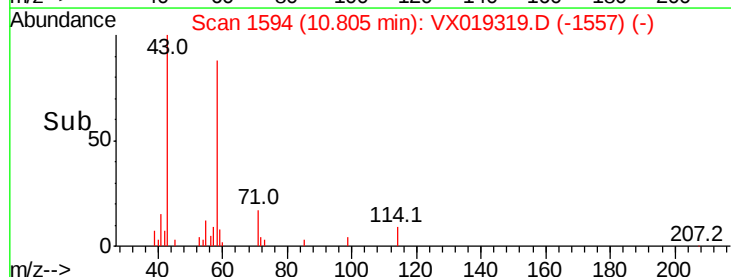


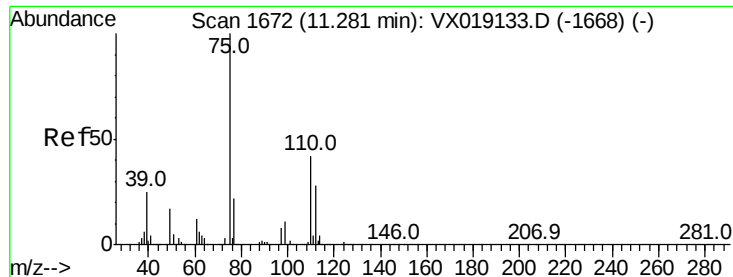
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#76

1,2,3-Trichloropropane

Concen: 24.897 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019319.D

Acq: 05 Nov 2020 17:10

Instrument :

MSVOA_X

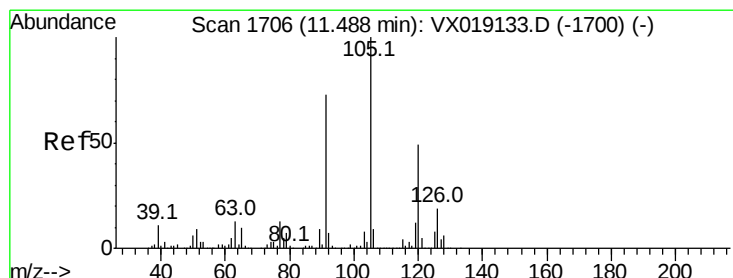
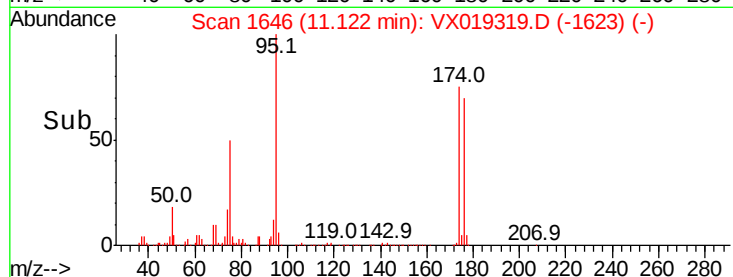
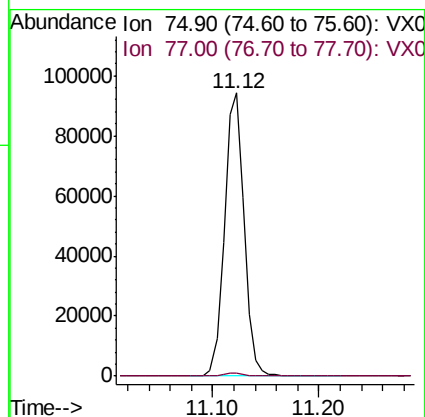
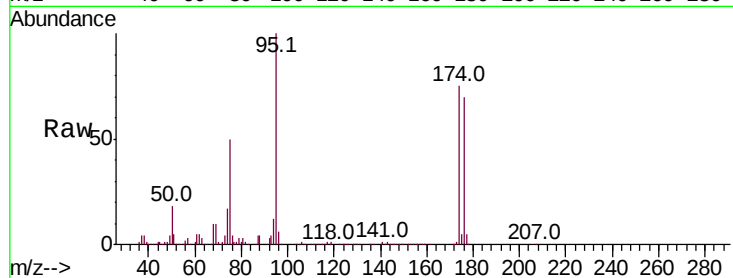
ClientSampleId :

Tot Ion: 75 Resp: 120826

Ion Ratio Lower Upper

75 100

77 1.2 20.3 60.9#



#80

1,3,5-Trimethylbenzene

Concen: 0.801 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX019319.D

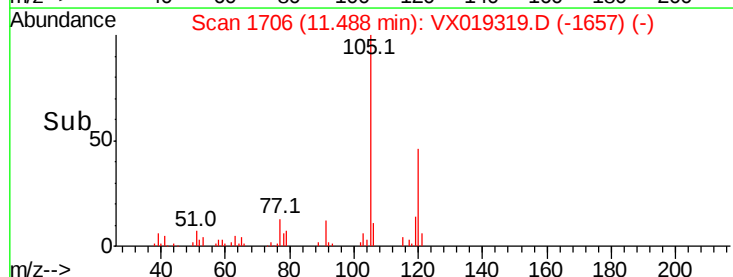
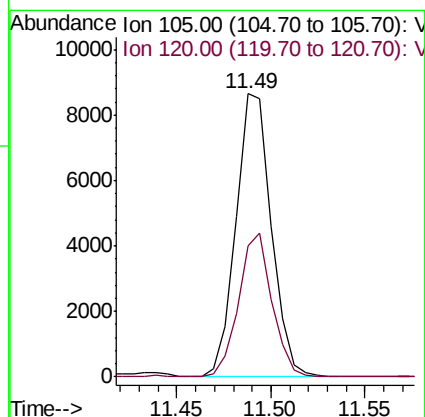
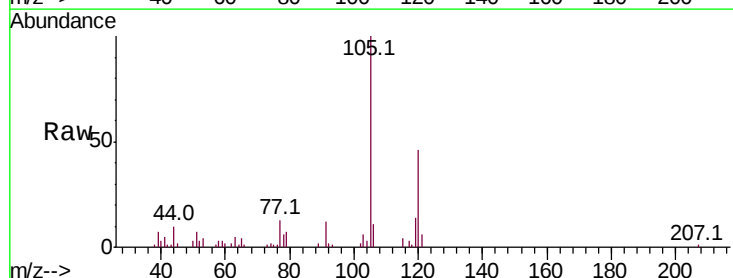
Acq: 05 Nov 2020 17:10

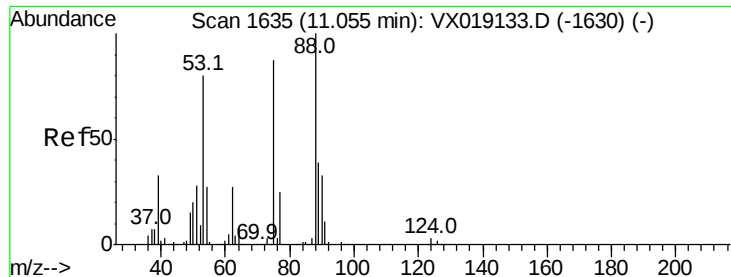
Tgt Ion: 105 Resp: 11257

Ion Ratio Lower Upper

105 100

120 47.6 24.3 72.8





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.554 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019319.D
 Acq: 05 Nov 2020 17:10

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 120826
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.3 109.9#
 89 0.0 38.2 57.2#

