

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014311.D
 Acq On : 27 Dec 2019 16:08
 Operator : JC/SP
 Sample : K6420-03DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2DL

Quant Time: Dec 30 05:36:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	520854	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	809581	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	726538	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	312360	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	295339	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
35) Dibromofluoromethane	5.49	113	240006	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
50) Toluene-d8	8.71	98	965707	50.40	ug/l	0.00
Spiked Amount			Recovery	=	100.80%	
62) 4-Bromofluorobenzene	11.14	95	320842	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	

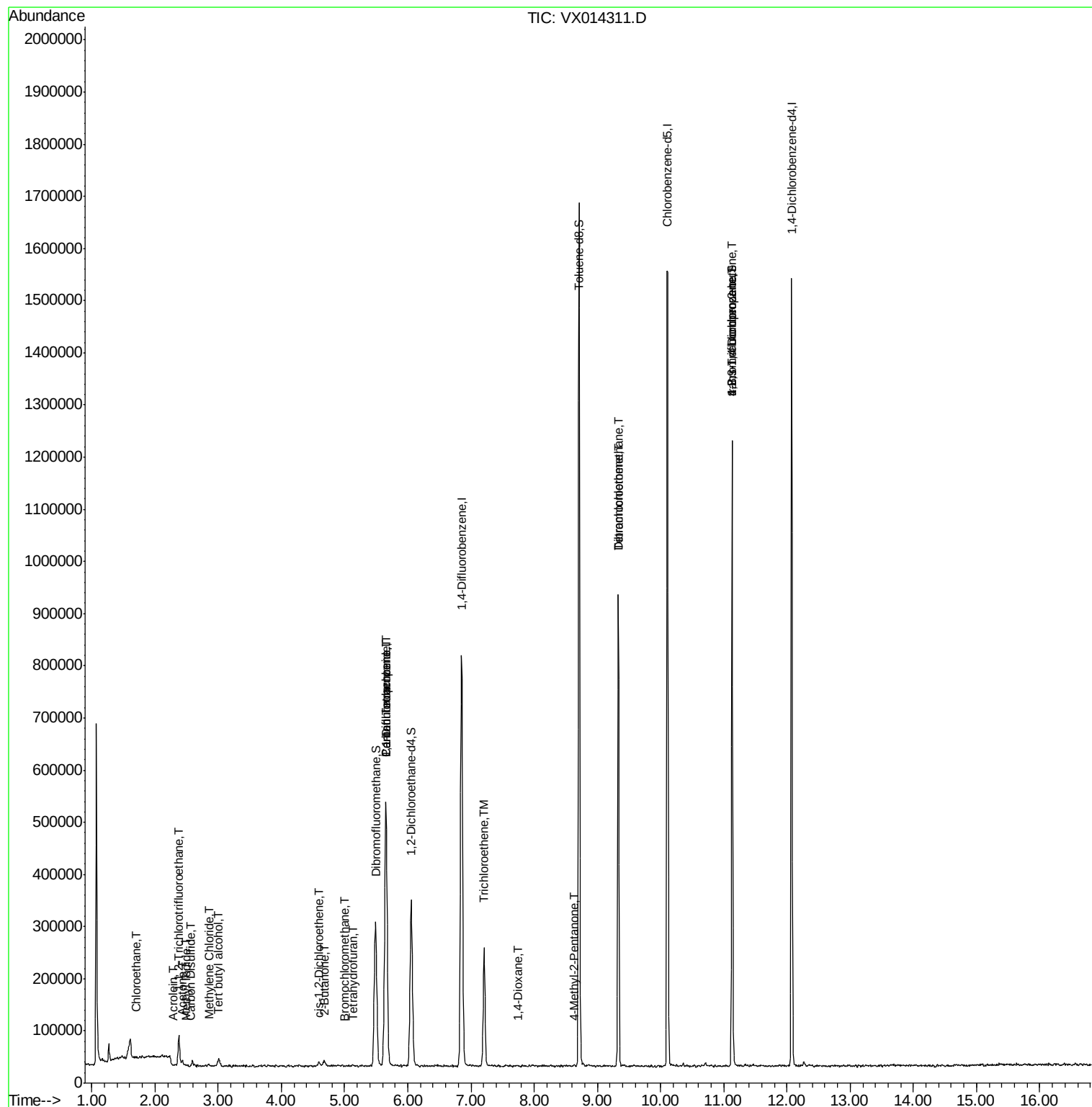
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	1403	0.345	ug/l #	51
9) 1,1,2-Trichlorotrifluoroet	2.37	101	24512	4.978	ug/l	96
10) Methyl Iodide	2.49	142	193	2.649	ug/l #	43
11) Tert butyl alcohol	3.00	59	9411	7.378	ug/l	95
13) Acrolein	2.29	56	173	0.237	ug/l #	1
16) Acetone	2.44	43	10739	2.802	ug/l	95
17) Carbon Disulfide	2.56	76	599	0.793	ug/l #	84
20) Methylene Chloride	2.86	84	2210	0.366	ug/l #	65
25) 2-Butanone	4.67	43	2837	0.600	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	4456	0.714	ug/l	95
28) Bromochloromethane	5.00	49	196	0.505	ug/l #	57
29) Tetrahydrofuran	5.14	42	969	0.367	ug/l #	39
36) 1,1-Dichloropropene	5.65	75	36582	4.925	ug/l #	41
38) Carbon Tetrachloride	5.65	117	45323	6.697	ug/l #	18
44) Trichloroethene	7.21	130	90713	14.369	ug/l	97
49) 1,4-Dioxane	7.74	88	477	3.526	ug/l #	79
51) 4-Methyl-2-Pentanone	8.64	43	2574	0.302	ug/l	87
60) Dibromochloromethane	9.33	129	155120	26.952	ug/l #	11
64) Tetrachloroethene	9.33	164	180062	28.008	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	155520	22.934	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	155341	64.656	ug/l #	12

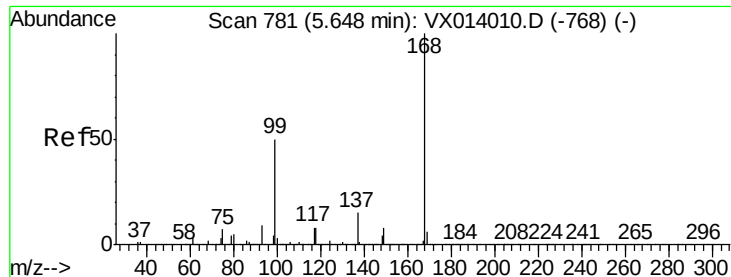
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
Data File : VX014311.D
Acq On : 27 Dec 2019 16:08
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Sample : K6420-03DL 10X
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Instrument :
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ClientSampleId :
MW-2DL

Quant Time: Dec 30 05:36:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

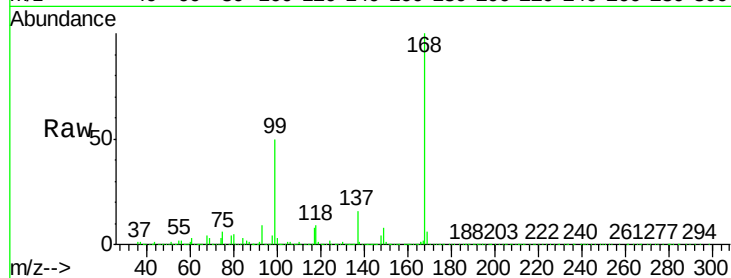
MW-2DL

Tgt Ion:168 Resp: 520854

Ion Ratio Lower Upper

168 100

99 49.7 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

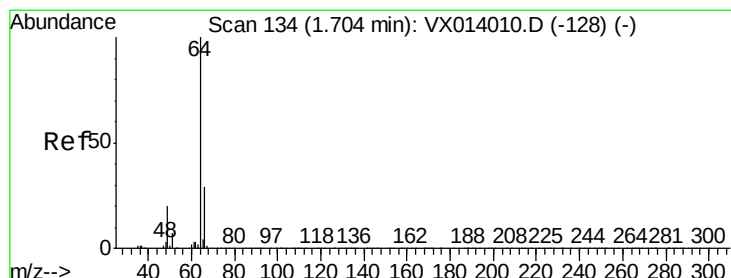
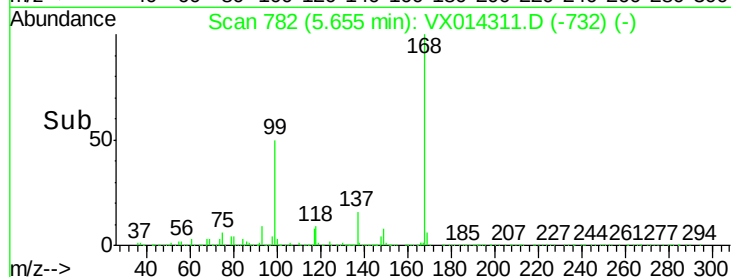
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.345 ug/l

RT: 1.70 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX014311.D

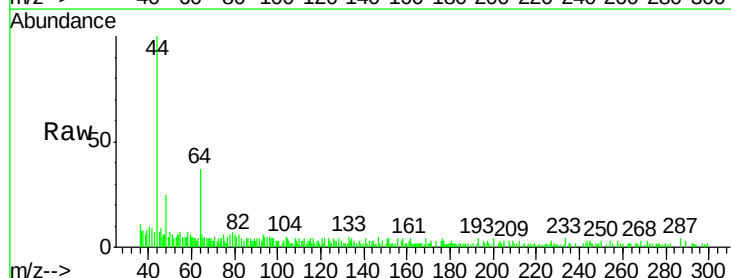
Acq: 27 Dec 2019 16:08

Tgt Ion: 64 Resp: 1403

Ion Ratio Lower Upper

64 100

66 3.0 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

2000

1500

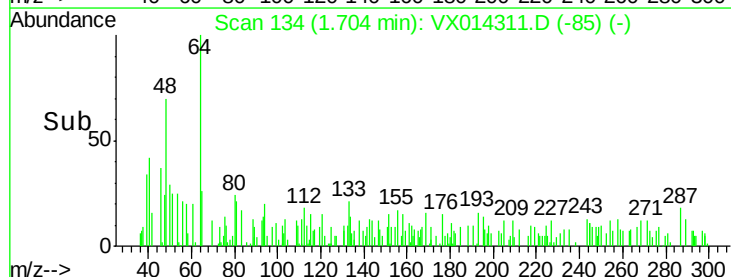
1000

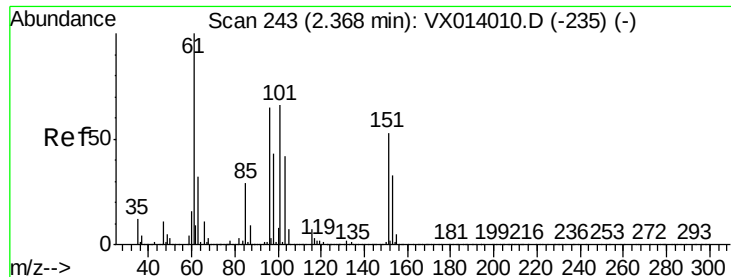
500

0

Time-->

1.65 1.70





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.978 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

MW-2DL

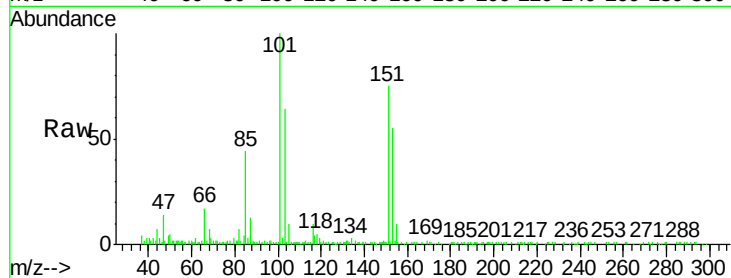
Tgt Ion:101 Resp: 24512

Ion Ratio Lower Upper

101 100

85 40.9 33.7 50.5

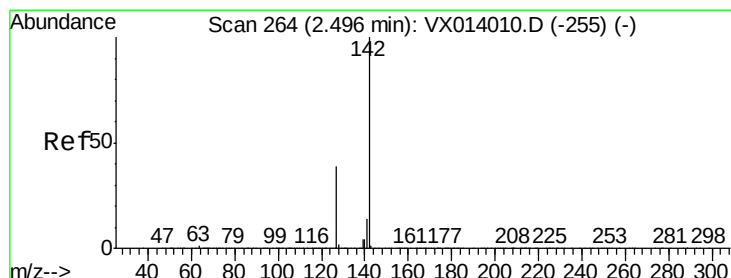
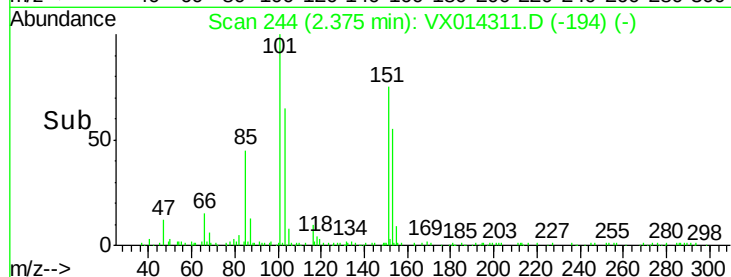
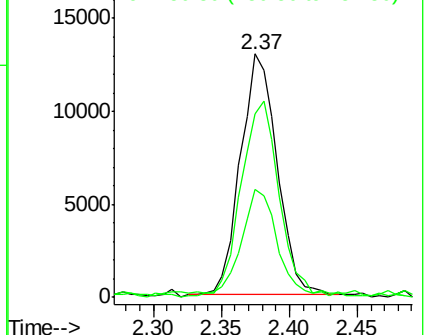
151 84.8 64.5 96.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.649 ug/l

RT: 2.49 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

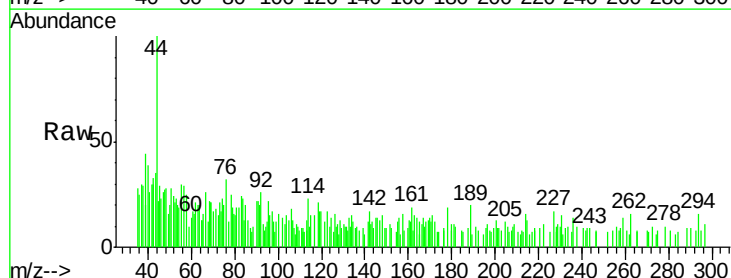
Tgt Ion:142 Resp: 193

Ion Ratio Lower Upper

142 100

127 0.0 31.6 47.4#

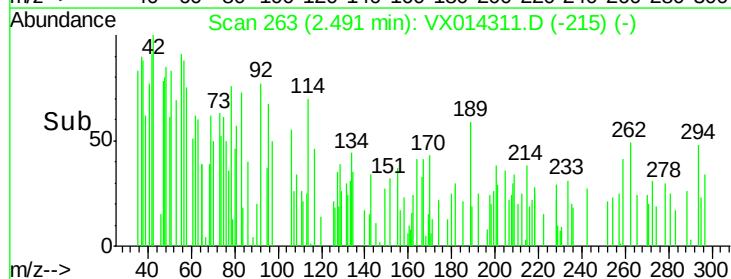
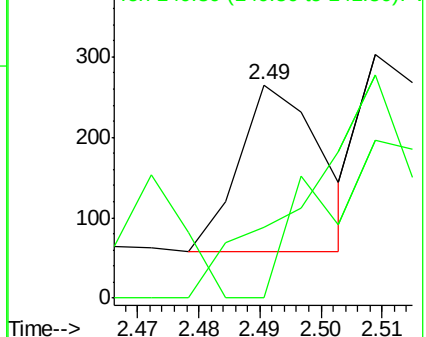
141 0.0 11.6 17.4#

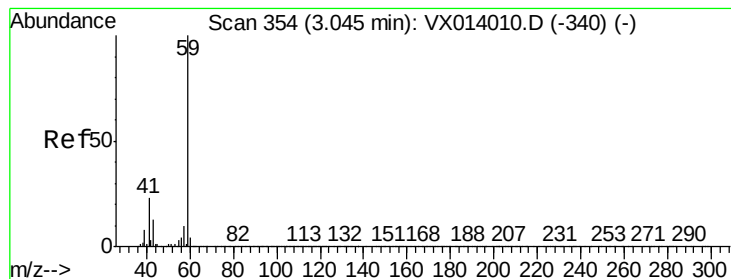


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



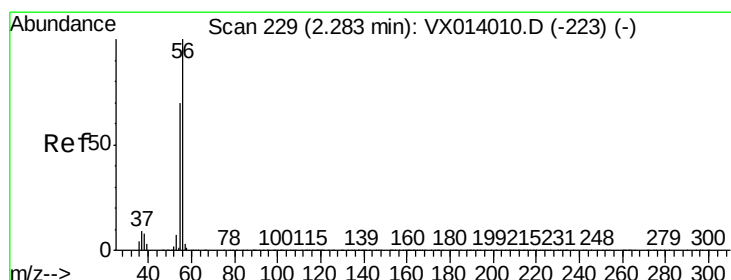
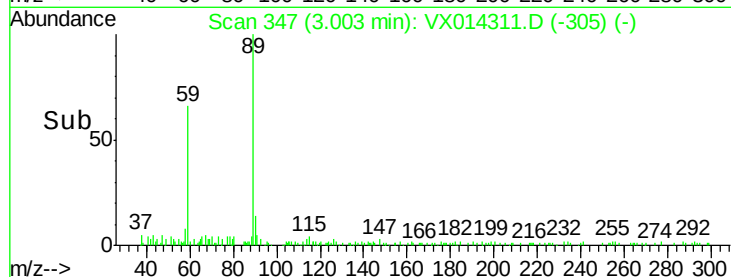
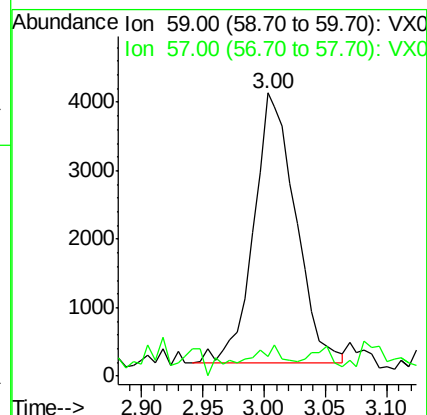
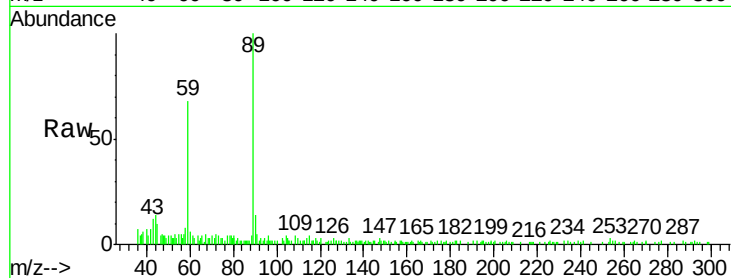


#11

Tert butyl alcohol
Concen: 7.378 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX014311.D
Acq: 27 Dec 2019 16:08

Instrument :
MSVOA_X
ClientSampled :
MW-2DL

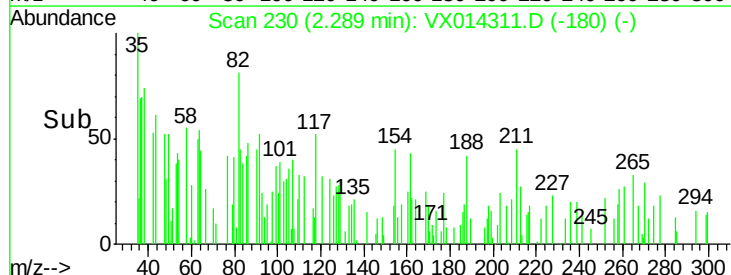
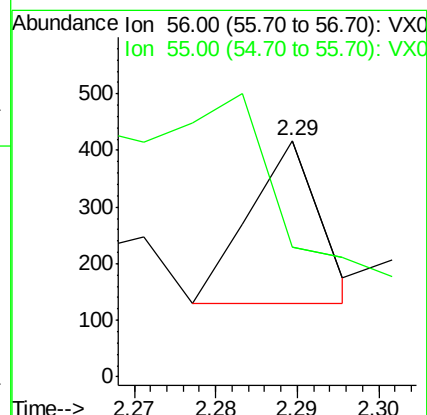
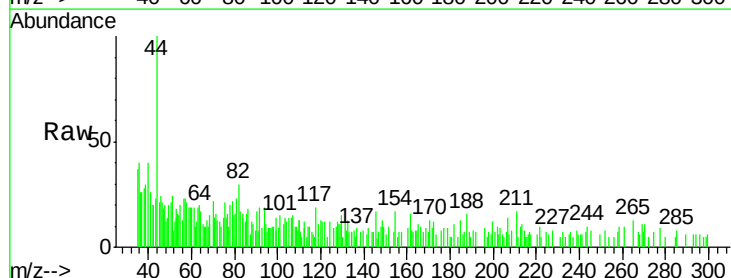
Tgt Ion: 59 Resp: 9411
Ion Ratio Lower Upper
59 100
57 12.4 8.4 12.6

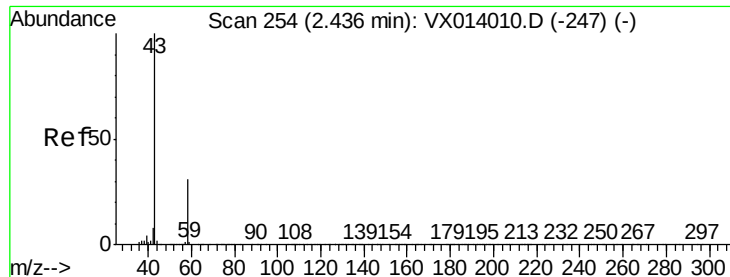


#13

Acrolein
Concen: 0.237 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014311.D
Acq: 27 Dec 2019 16:08

Tgt Ion: 56 Resp: 173
Ion Ratio Lower Upper
56 100
55 249.7 56.9 85.3#





#16

Acetone

Concen: 2.802 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

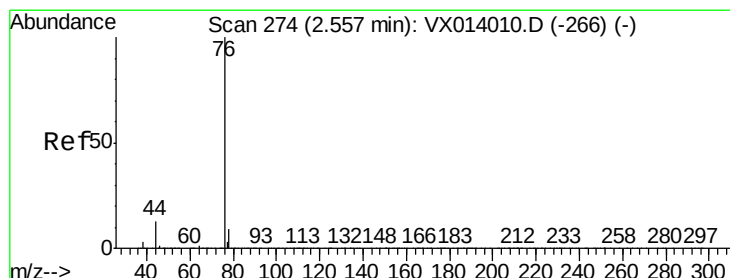
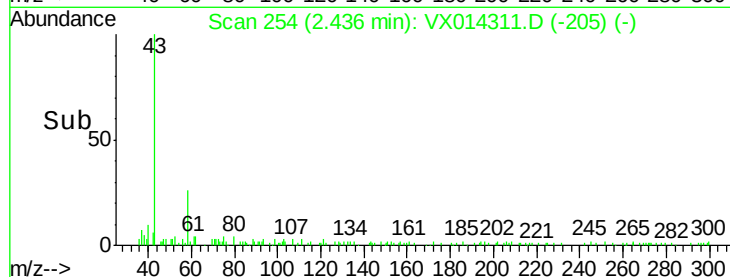
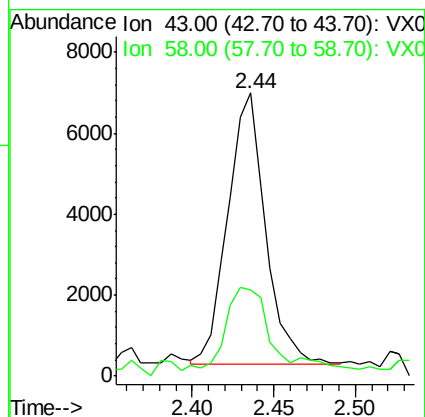
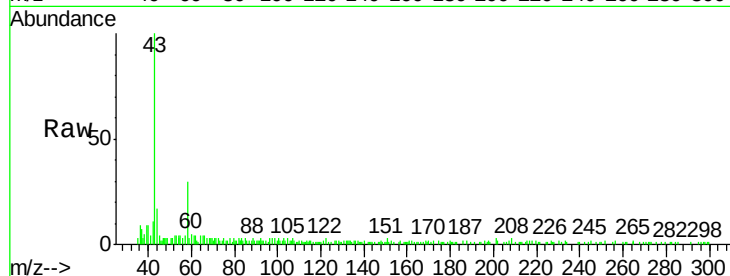
MW-2DL

Tgt Ion: 43 Resp: 10739

Ion Ratio Lower Upper

43 100

58 28.3 24.9 37.3



#17

Carbon Disulfide

Concen: 0.793 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014311.D

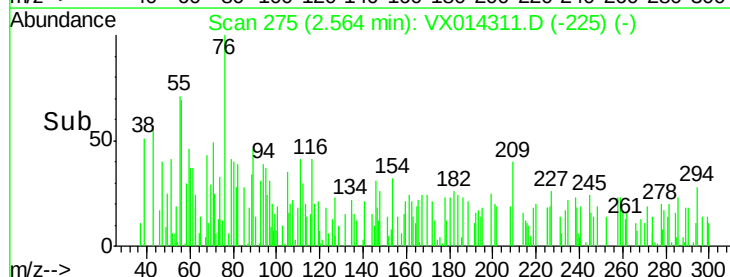
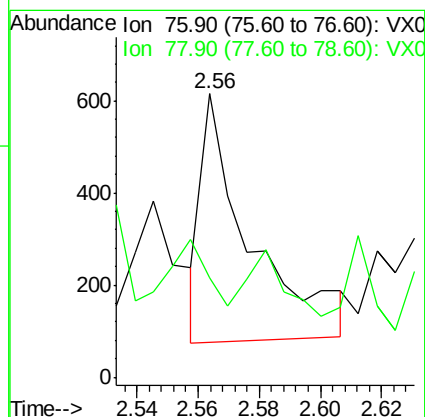
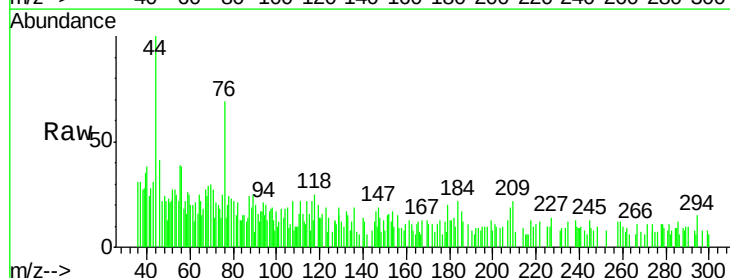
Acq: 27 Dec 2019 16:08

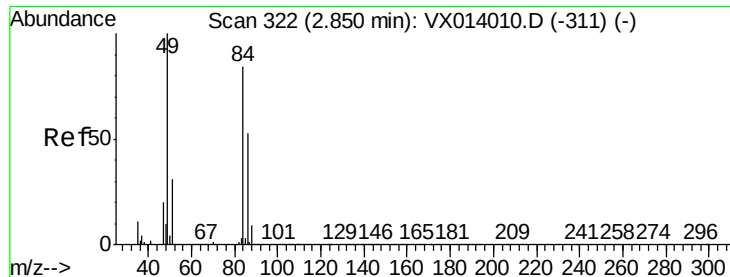
Tgt Ion: 76 Resp: 599

Ion Ratio Lower Upper

76 100

78 15.0 7.2 10.8#





#20

Methylene Chloride

Concen: 0.366 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

MW-2DL

Tgt Ion: 84 Resp: 2210

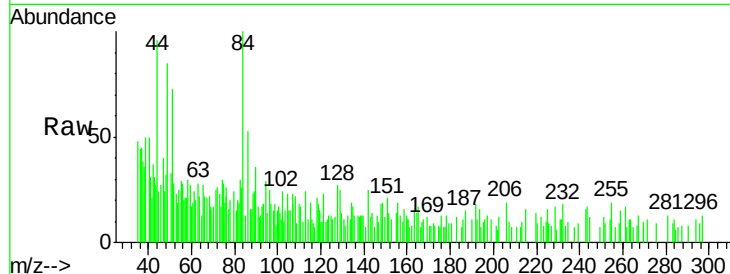
Ion Ratio Lower Upper

84 100

49 84.6 95.8 143.6#

51 15.6 29.8 44.8#

86 32.8 50.8 76.2#

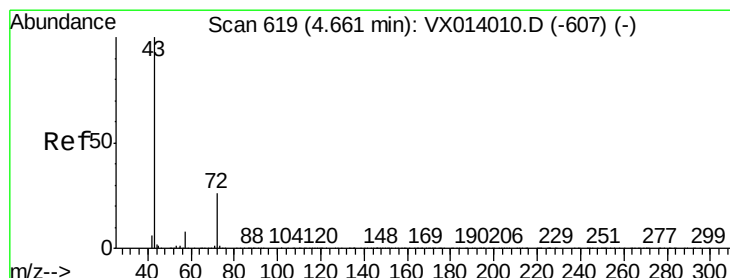
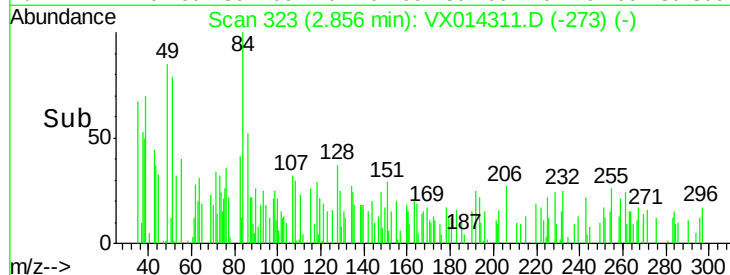
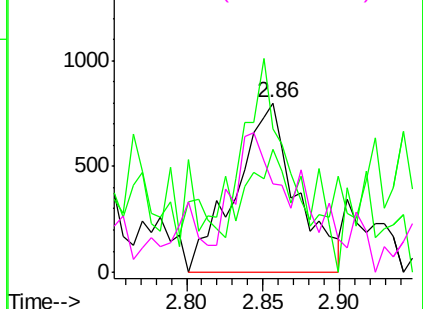


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.600 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX014311.D

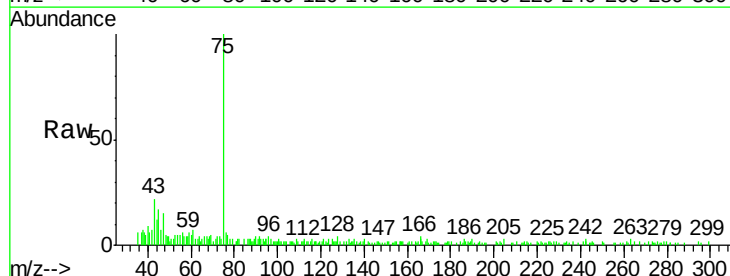
Acq: 27 Dec 2019 16:08

Tgt Ion: 43 Resp: 2837

Ion Ratio Lower Upper

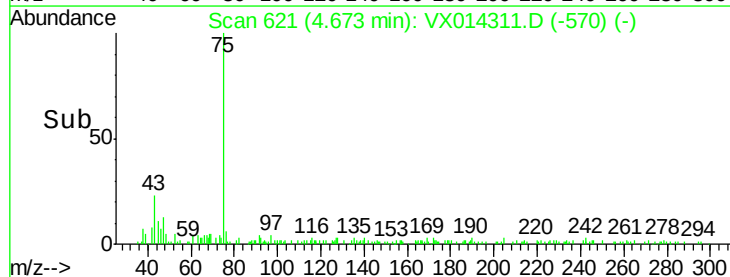
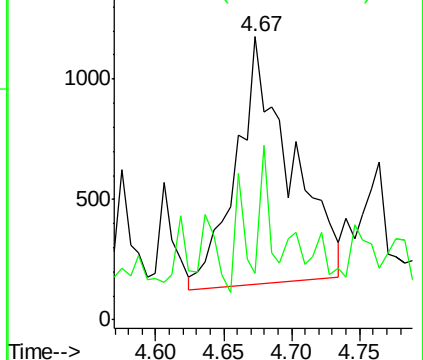
43 100

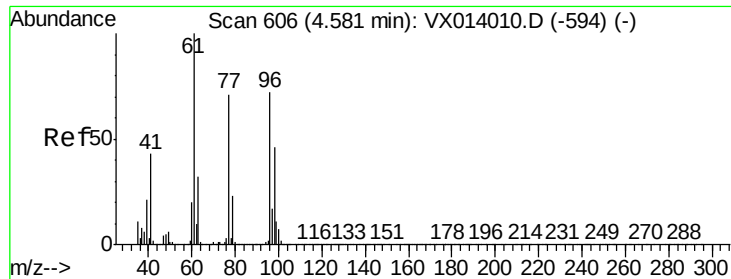
72 0.0 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



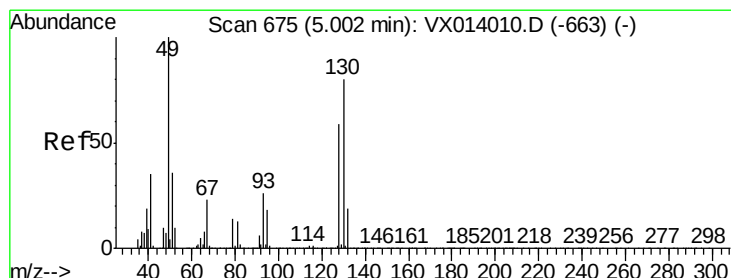
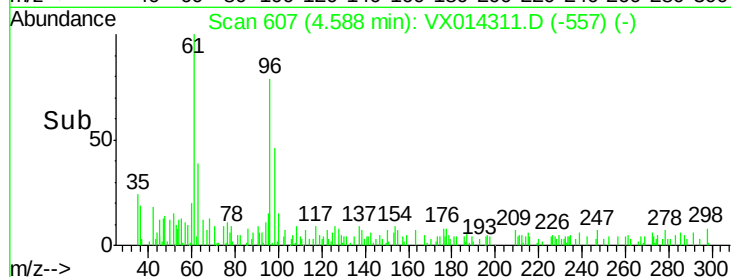
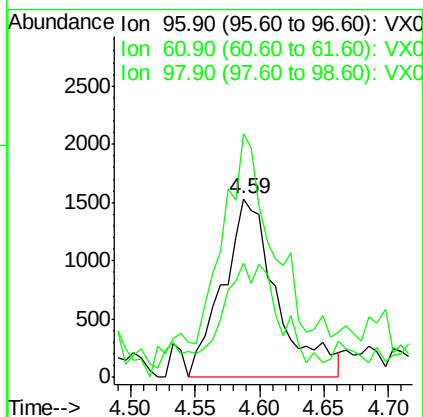
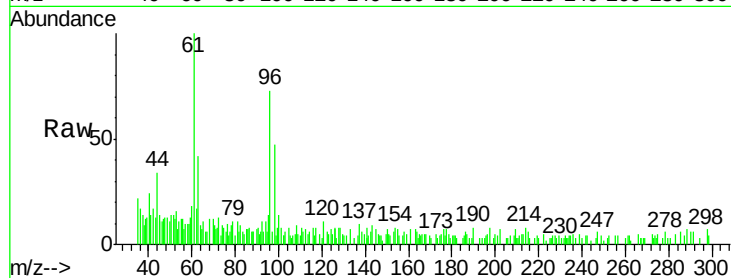


#27

cis-1,2-Dichloroethene
Concen: 0.714 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX014311.D
Acq: 27 Dec 2019 16:08

Instrument :
MSVOA_X
ClientSampled :
MW-2DL

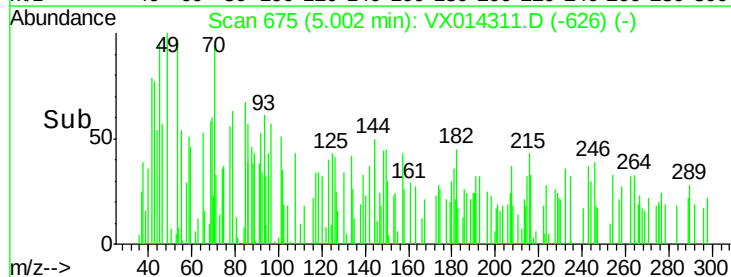
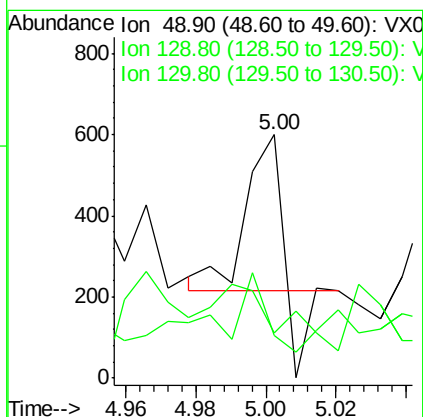
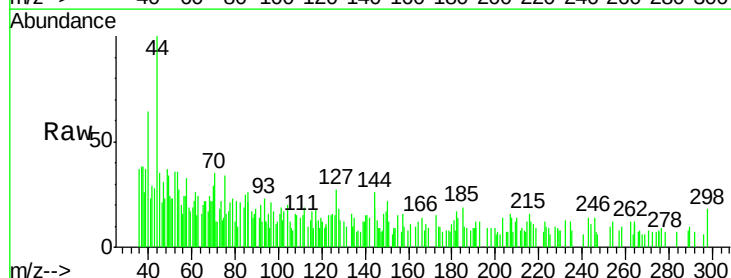
Tgt Ion: 96 Resp: 4456
Ion Ratio Lower Upper
96 100
61 148.7 0.0 288.4
98 57.7 0.0 129.6

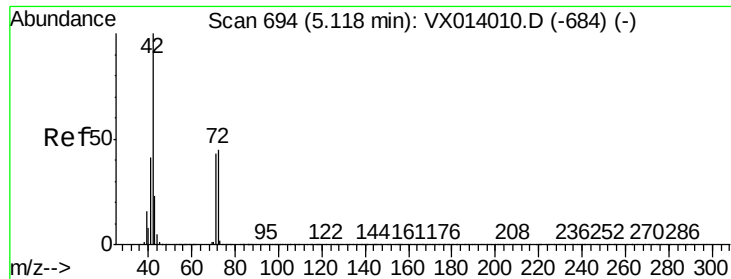


#28

Bromochloromethane
Concen: 0.505 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX014311.D
Acq: 27 Dec 2019 16:08

Tgt Ion: 49 Resp: 196
Ion Ratio Lower Upper
49 100
129 200.5 0.0 5.0#
130 104.1 64.6 97.0#

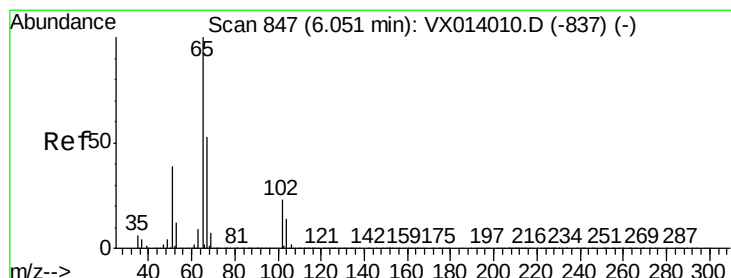
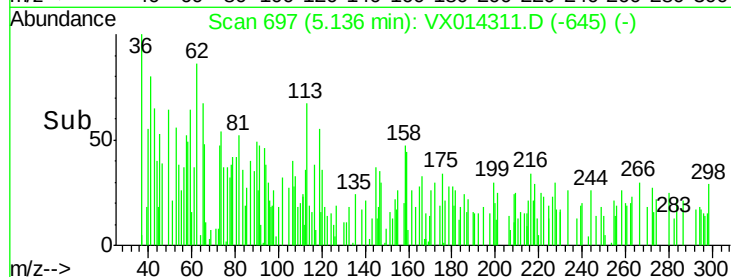
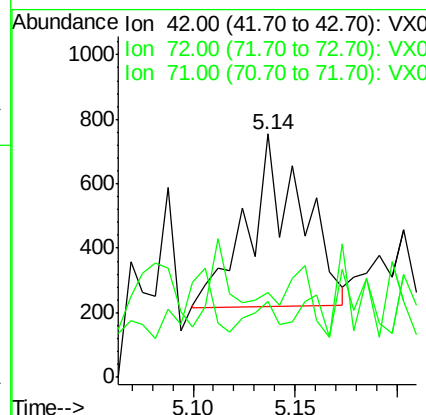
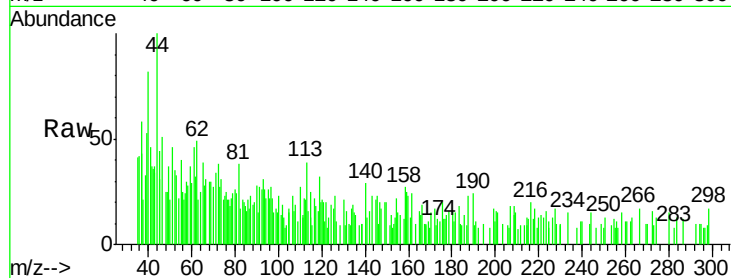




#29
Tetrahydrofuran
Concen: 0.367 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX014311.D
Acq: 27 Dec 2019 16:08

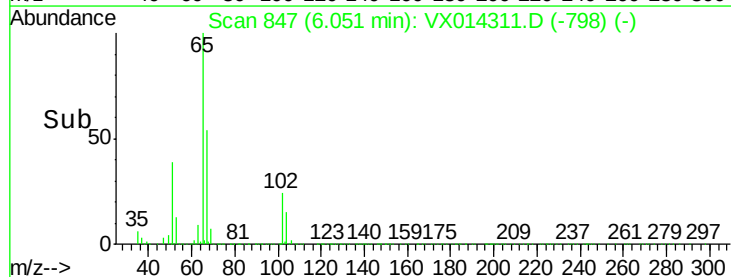
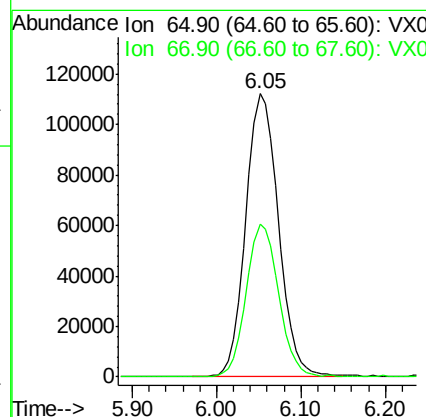
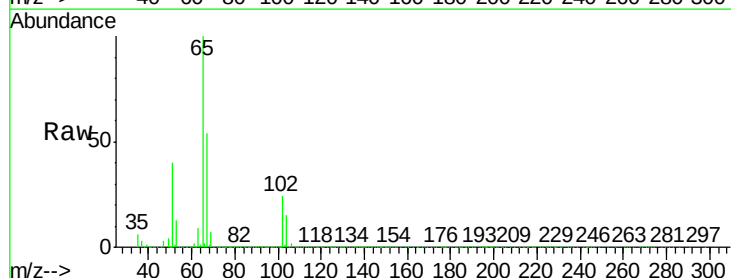
Instrument :
MSVOA_X
ClientSampled :
MW-2DL

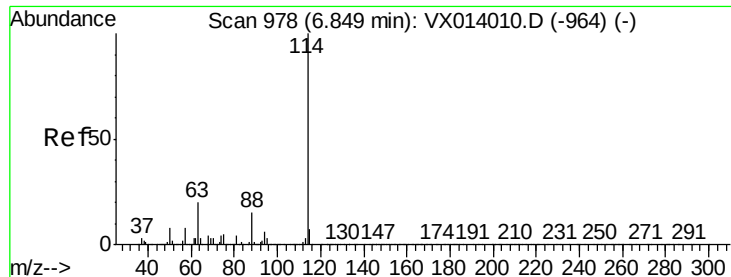
Tgt Ion: 42 Resp: 969
Ion Ratio Lower Upper
42 100
72 0.0 35.8 53.8#
71 8.3 33.6 50.4#



#33
1,2-Dichloroethane-d4
Concen: 50.031 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014311.D
Acq: 27 Dec 2019 16:08

Tgt Ion: 65 Resp: 295339
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

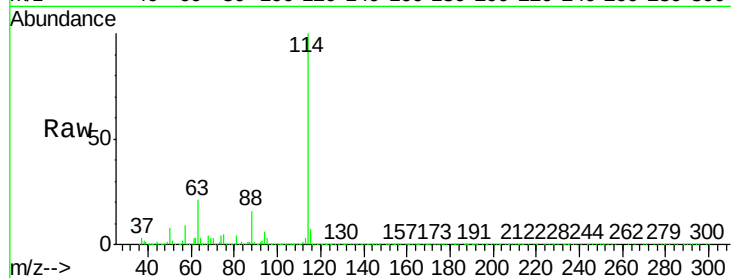
Instrument :

MSVOA_X

ClientSampleId :

MW-2DL

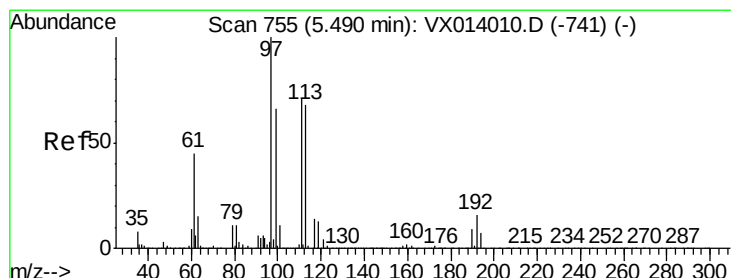
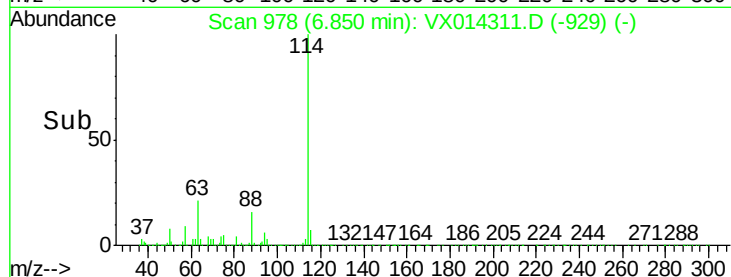
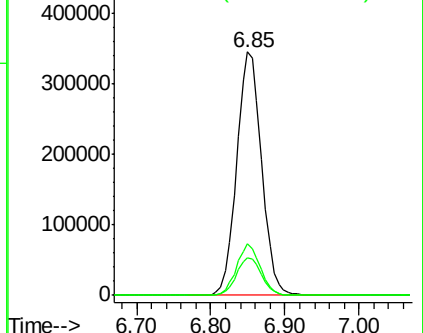
Tgt Ion:	114	Resp:	809581
Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.8
88	15.6	0.0	30.4



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: 48.768 ug/l

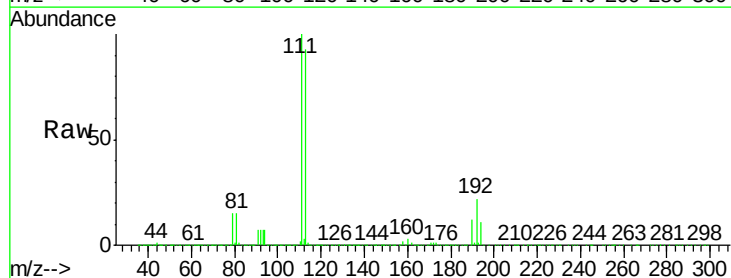
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

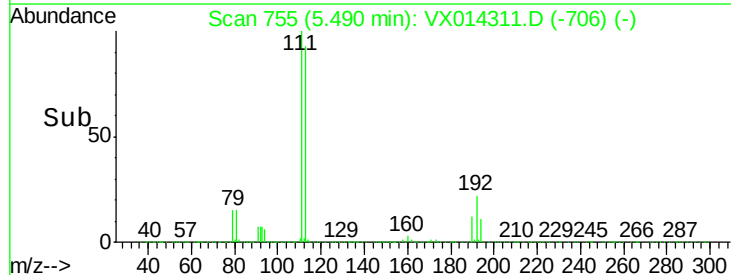
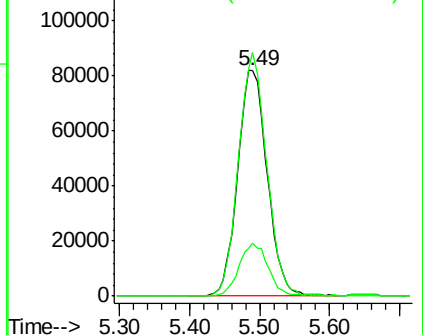
Tgt Ion:	113	Resp:	240006
Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.0	123.0
192	23.4	19.3	28.9

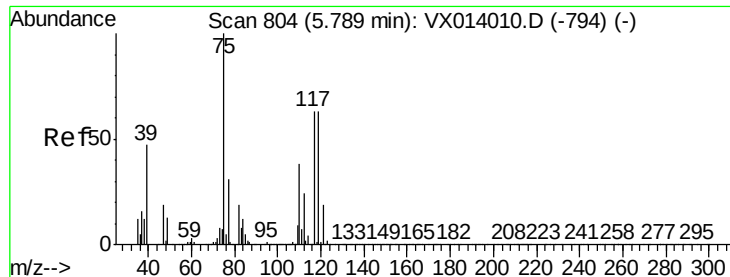


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

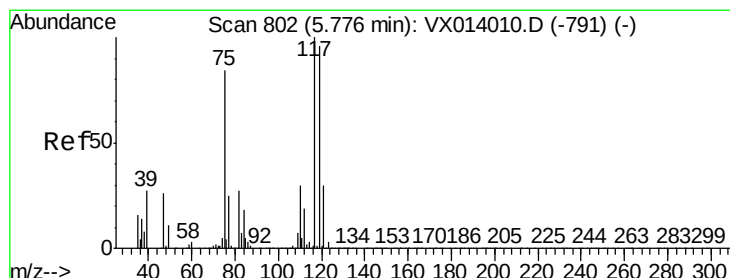
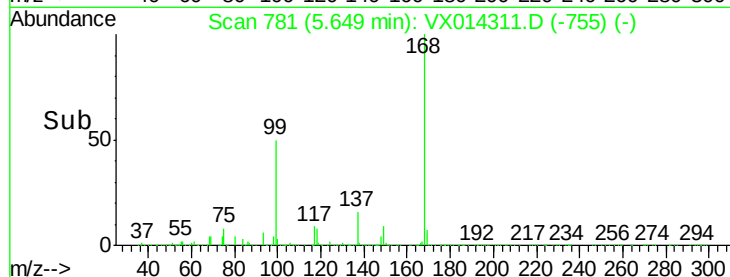
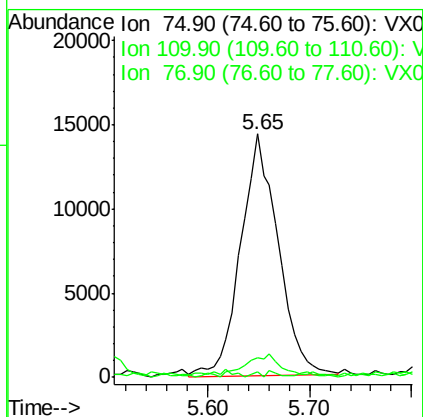
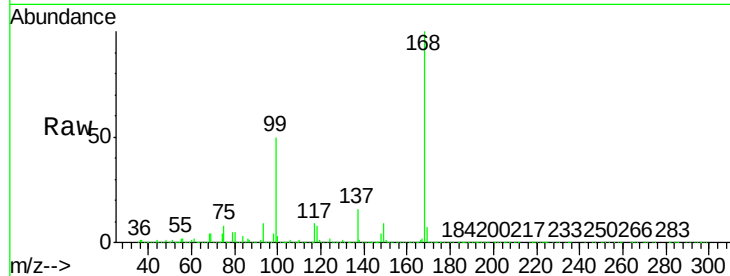




#36
 1,1-Dichloropropene
 Concen: 4.925 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014311.D
 Acq: 27 Dec 2019 16:08

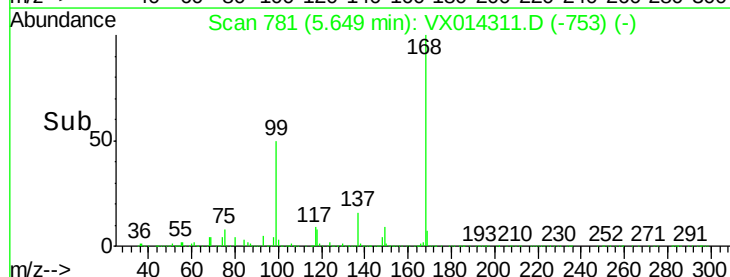
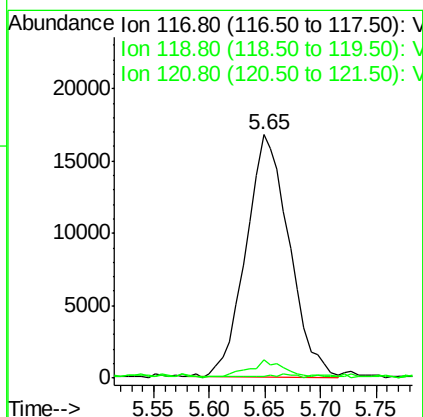
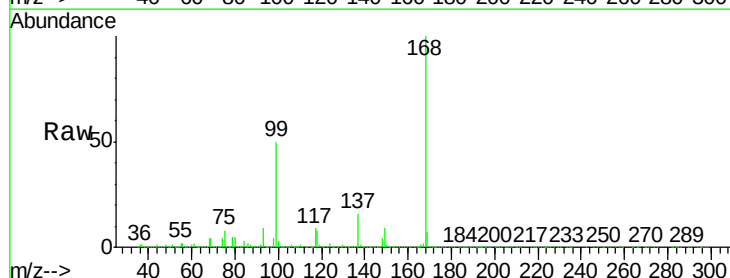
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2DL

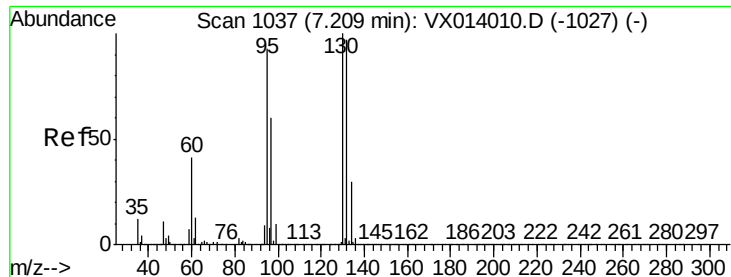
Tgt Ion:	75	Resp:	36582
Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.3	54.9#
77	0.5	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.697 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014311.D
 Acq: 27 Dec 2019 16:08

Tgt Ion:	117	Resp:	45323
Ion	Ratio	Lower	Upper
117	100		
119	6.7	76.2	114.4#
121	0.1	23.6	35.4#





#44

Trichloroethene

Concen: 14.369 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

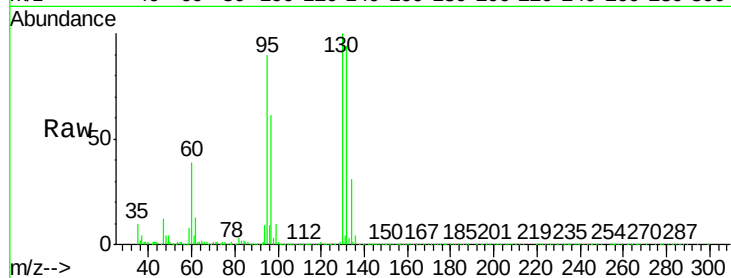
MW-2DL

Tgt Ion:130 Resp: 90713

Ion Ratio Lower Upper

130 100

95 90.0 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

40000

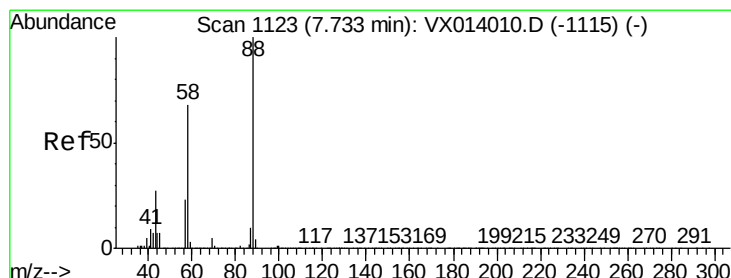
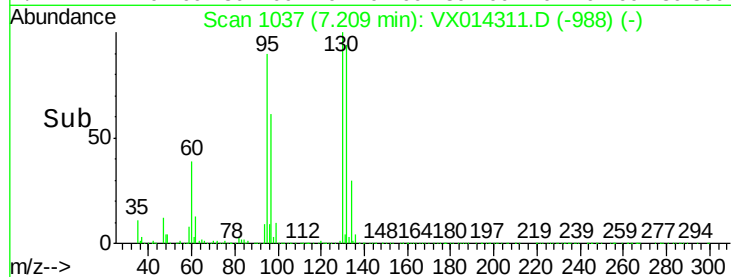
30000

20000

10000

0

Time--> 7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 3.526 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

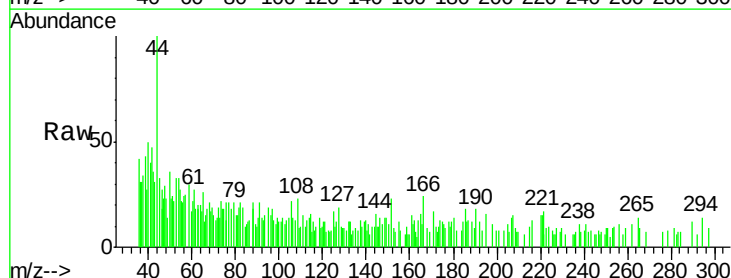
Tgt Ion: 88 Resp: 477

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 67.7 56.8 85.2



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

7.74

400

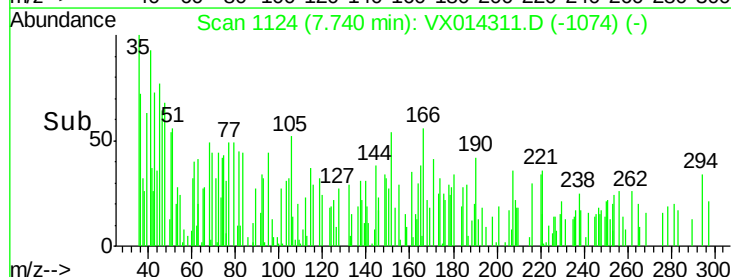
300

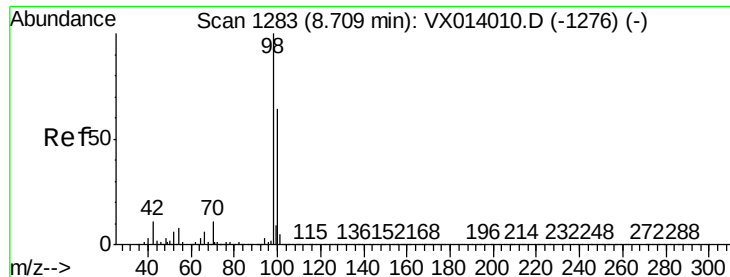
200

100

0

Time--> 7.70 7.72 7.74 7.76





#50

Toluene-d8

Concen: 50.402 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

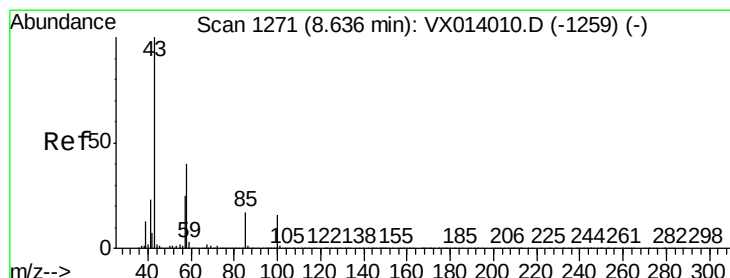
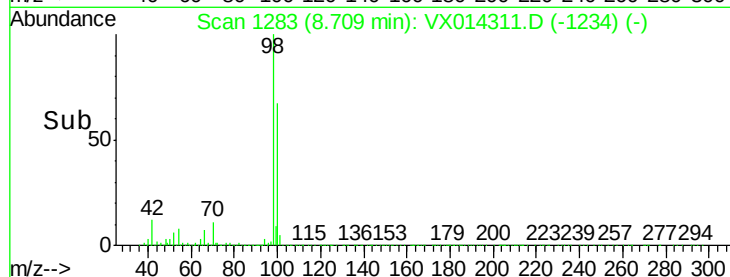
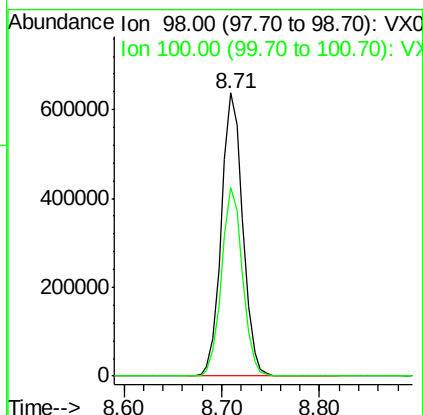
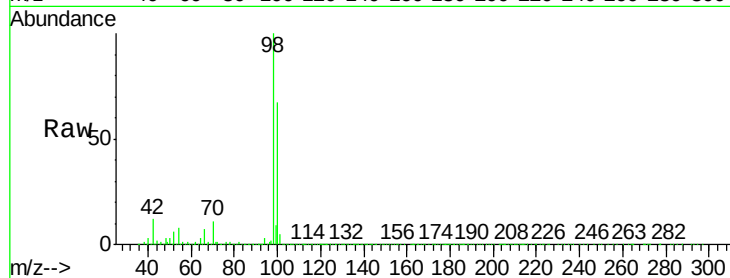
MW-2DL

Tgt Ion: 98 Resp: 965707

Ion Ratio Lower Upper

98 100

100 65.5 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 0.302 ug/l

RT: 8.64 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VX014311.D

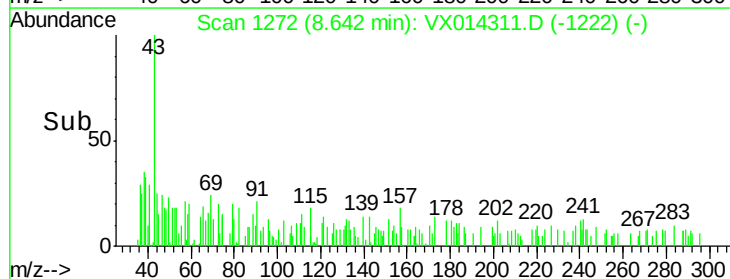
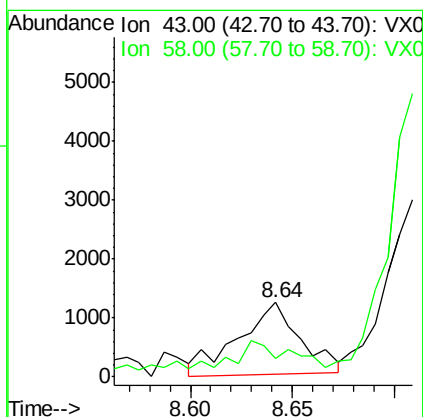
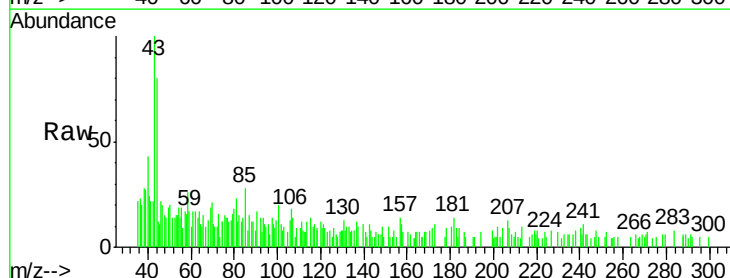
Acq: 27 Dec 2019 16:08

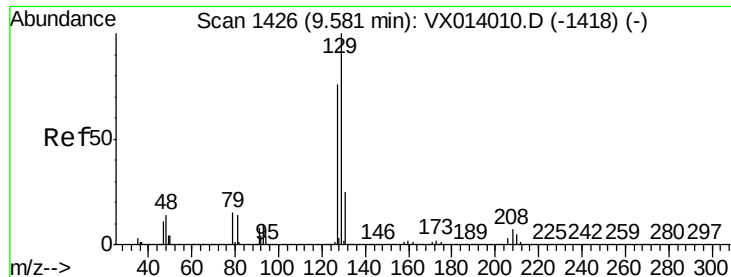
Tgt Ion: 43 Resp: 2574

Ion Ratio Lower Upper

43 100

58 32.3 32.2 48.2





#60

Dibromochloromethane

Concen: 26.952 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

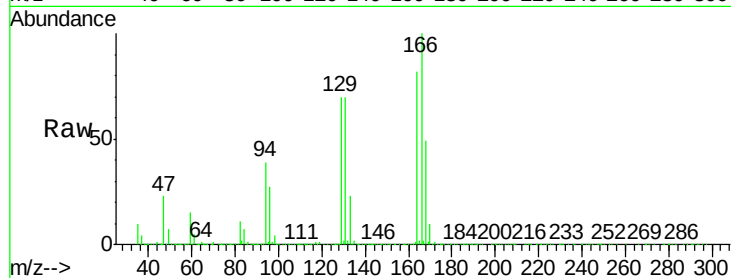
MW-2DL

Tgt Ion:129 Resp: 155120

Ion Ratio Lower Upper

129 100

127 0.3 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

120000

100000

80000

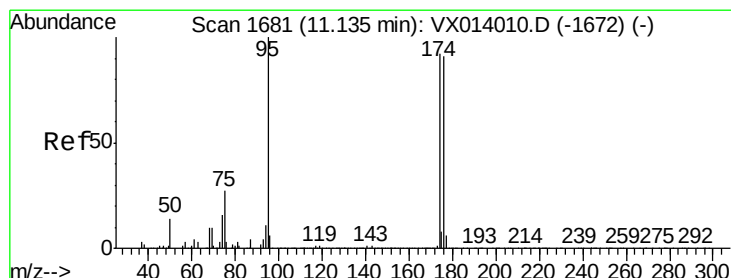
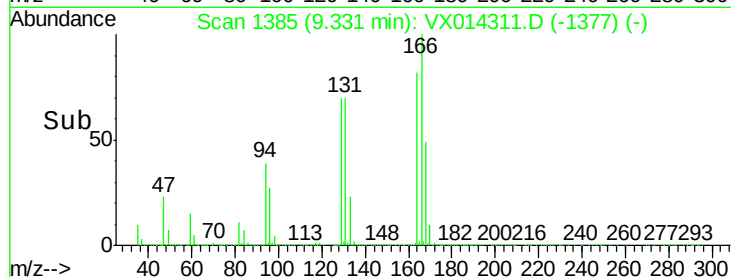
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.809 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

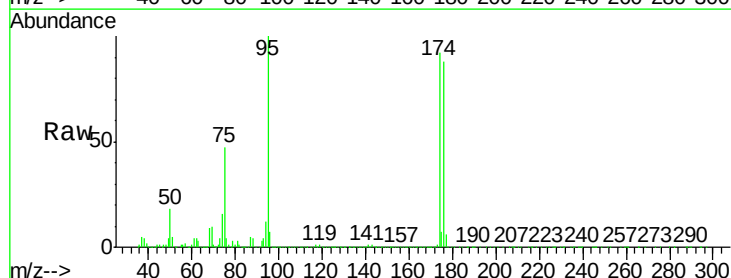
Tgt Ion: 95 Resp: 320842

Ion Ratio Lower Upper

95 100

174 87.1 0.0 175.8

176 85.3 0.0 173.0



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

11.14

300000

250000

200000

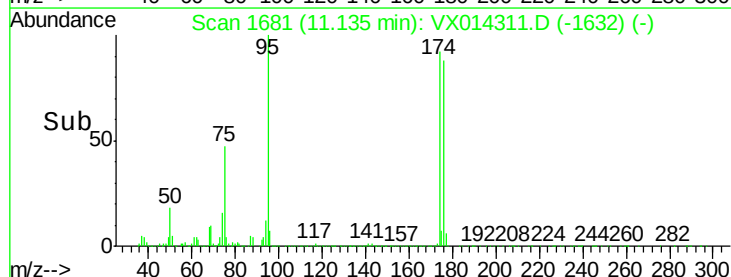
150000

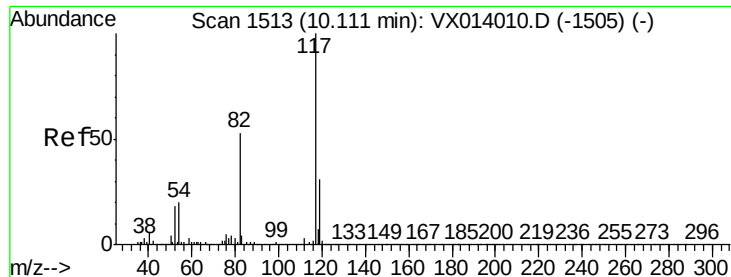
100000

50000

0

Time-->

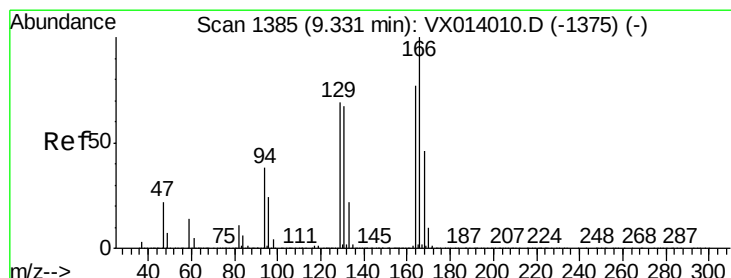
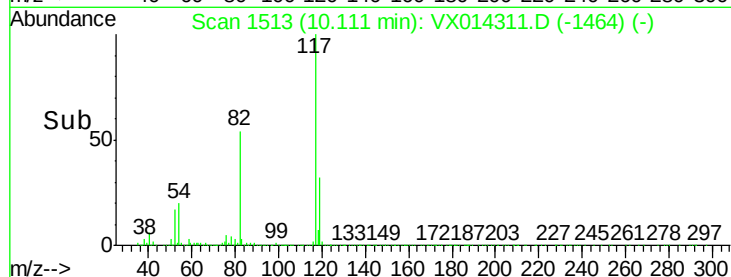
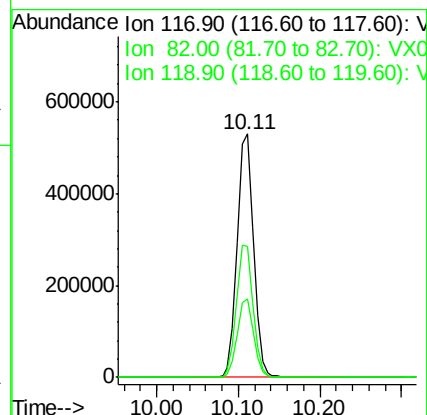
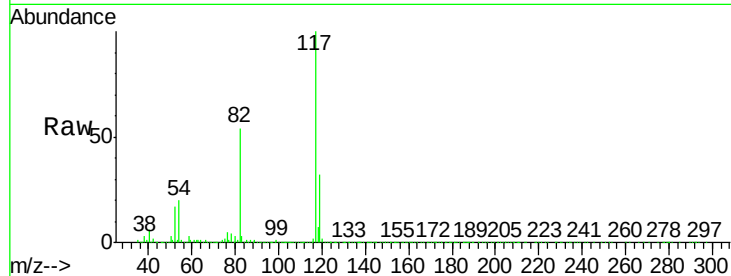




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014311.D
Acq: 27 Dec 2019 16:08

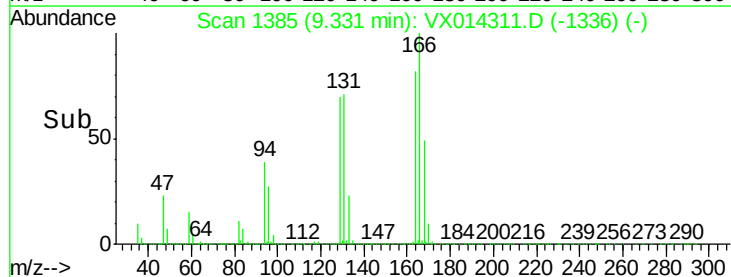
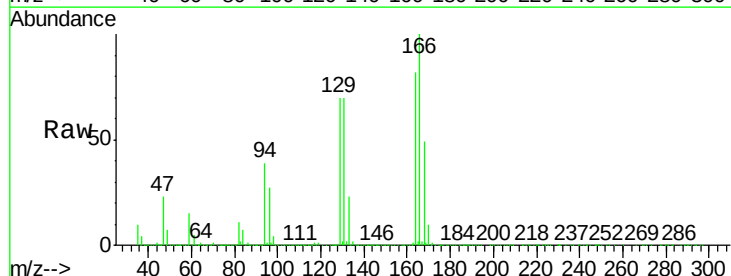
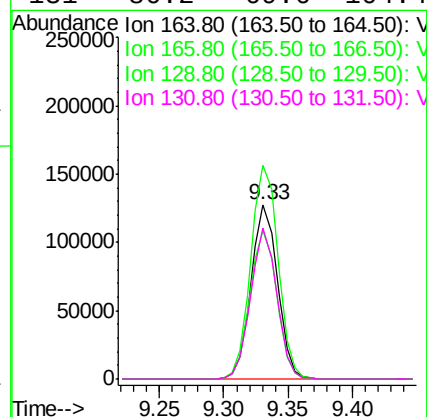
Instrument :
MSVOA_X
ClientSampleId :
MW-2DL

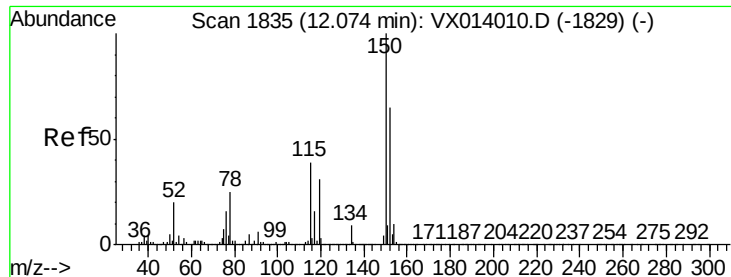
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.7	42.2	63.4
119	32.3	25.1	37.7



#64
Tetrachloroethene
Concen: 28.008 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX014311.D
Acq: 27 Dec 2019 16:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.3	104.0	156.0
129	85.2	72.2	108.4
131	86.2	69.6	104.4

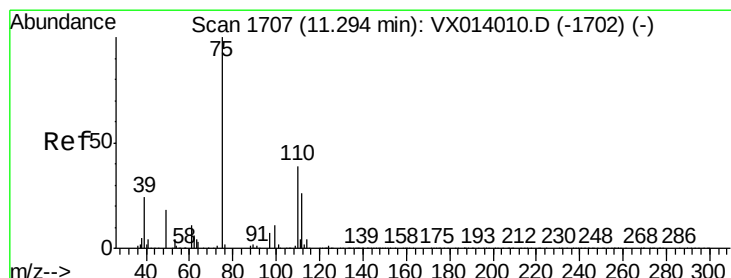
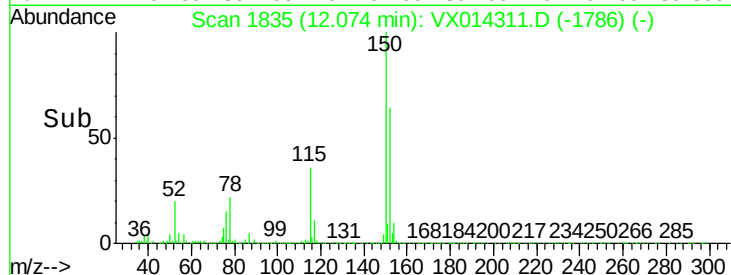
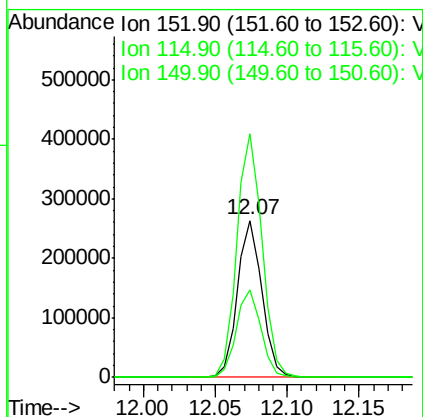
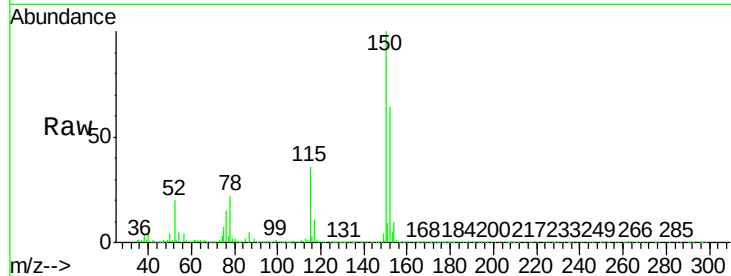




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX014311.D
 Acq: 27 Dec 2019 16:08

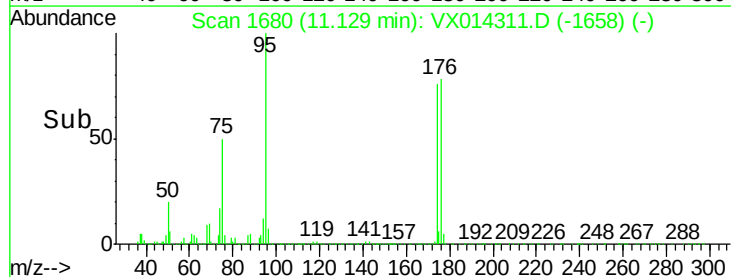
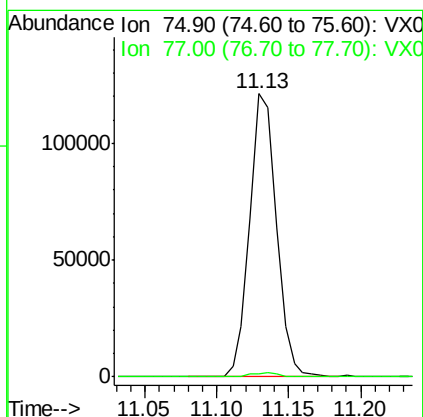
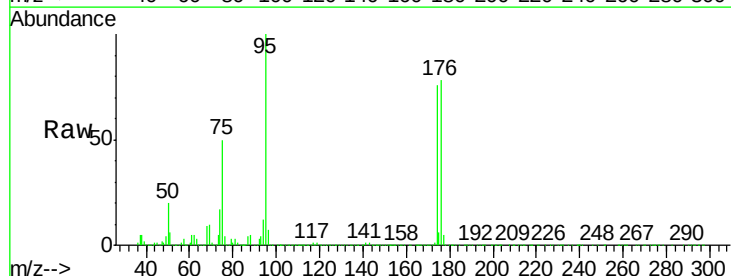
Instrument :
 MSVOA_X
 ClientSampled :
 MW-2DL

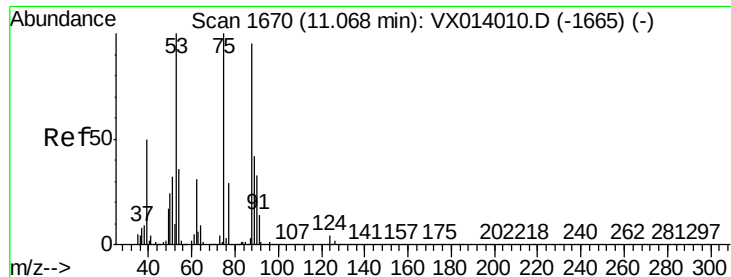
Tgt Ion: 152 Resp: 312360
 Ion Ratio Lower Upper
 152 100
 115 56.4 38.3 114.9
 150 159.6 0.0 345.4



#76
 1,2,3-Trichloropropane
 Concen: 22.934 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014311.D
 Acq: 27 Dec 2019 16:08

Tgt Ion: 75 Resp: 155520
 Ion Ratio Lower Upper
 75 100
 77 1.5 19.3 57.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 64.656 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014311.D

Acq: 27 Dec 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

MW-2DL

Tgt Ion: 75 Resp: 155341

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 34.6 51.8#

