

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013798.D
 Acq On : 06 Dec 2019 14:42
 Operator : JC/SP
 Sample : K6184-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D3-20191203

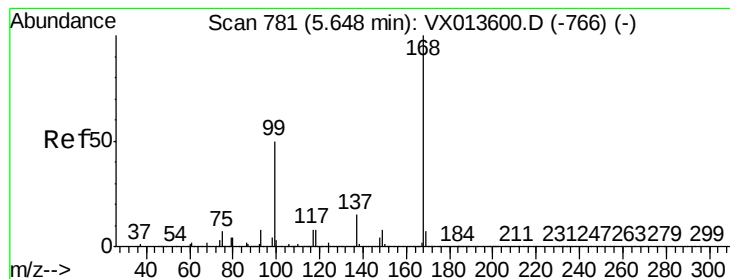
Quant Time: Dec 07 02:37:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	645981	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	987693	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	884597	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	383278	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	355538	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
35) Dibromofluoromethane	5.49	113	295327	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
50) Toluene-d8	8.71	98	1174981	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
62) 4-Bromofluorobenzene	11.13	95	388808	45.32	ug/l	0.00
Spiked Amount			Recovery	=	90.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.57	64	1745	0.338	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	2.37	101	3087	0.501	ug/l #	77
11) Tert butyl alcohol	3.03	59	1096	0.592	ug/l #	22
13) Acrolein	2.30	56	143	6.117	ug/l #	1
15) Acrylonitrile	3.12	53	1050	0.275	ug/l #	41
16) Acetone	2.43	43	8117	2.193	ug/l	96
20) Methylene Chloride	2.86	84	1794	0.252	ug/l #	63
25) 2-Butanone	4.65	43	1147	0.208	ug/l #	83
27) cis-1,2-Dichloroethene	4.59	96	1649	0.214	ug/l	32
36) 1,1-Dichloropropene	5.65	75	43291	4.828	ug/l #	52
38) Carbon Tetrachloride	5.65	117	56185	6.796	ug/l #	16
44) Trichloroethene	7.21	130	22179	2.959	ug/l	89
49) 1,4-Dioxane	7.73	88	213	1.183	ug/l #	1
64) Tetrachloroethene	9.33	164	16594	2.515	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	193668	22.466	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	193668	61.462	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

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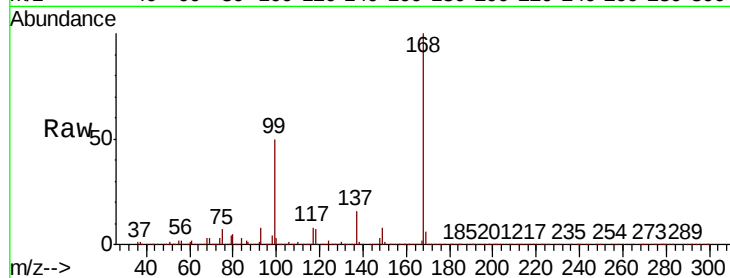
RE126D3-20191203

Tot Ion:168 Resp: 645981

Ion Ratio Lower Upper

168 100

99 49.5 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

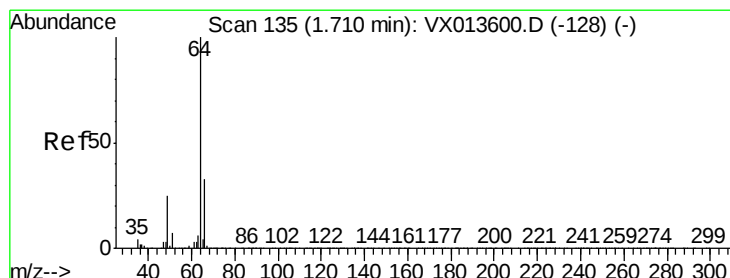
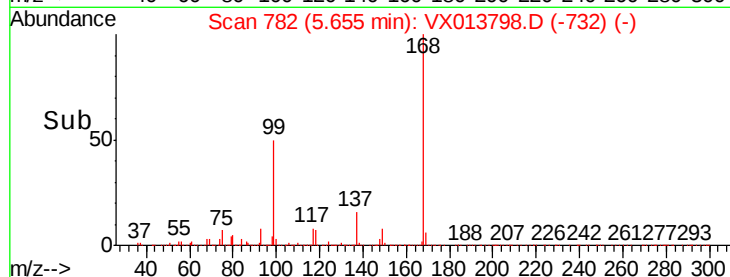
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.338 ug/l

RT: 1.57 min Scan# 112

Delta R.T. -0.14 min

Lab File: VX013798.D

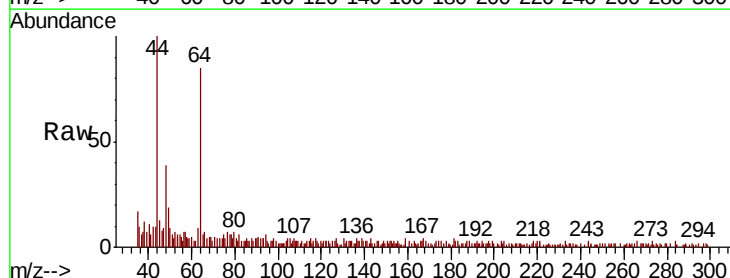
Acq: 06 Dec 2019 14:42

Tgt Ion: 64 Resp: 1745

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.57

6000

5000

4000

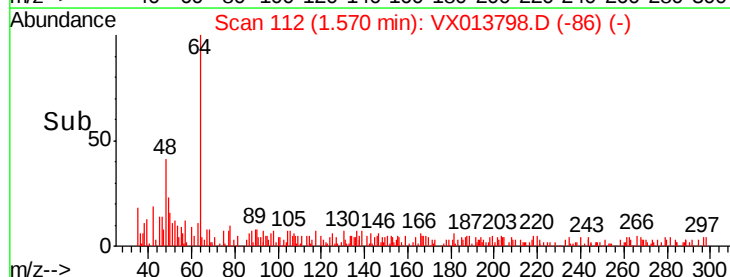
3000

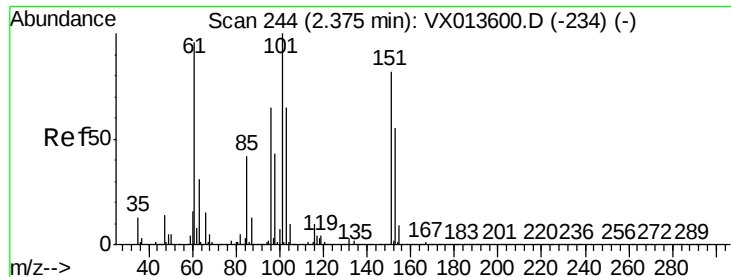
2000

1000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.501 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-20191203

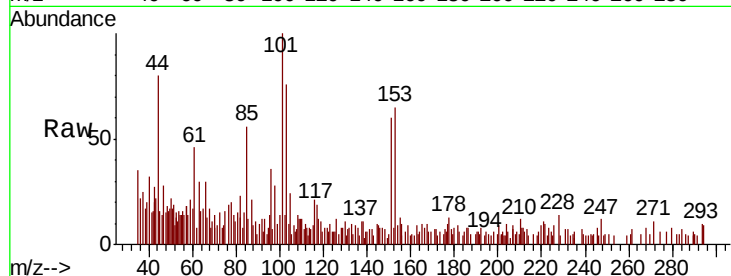
Tot Ion:101 Resp: 3087

Ion Ratio Lower Upper

101 100

85 75.9 33.9 50.9#

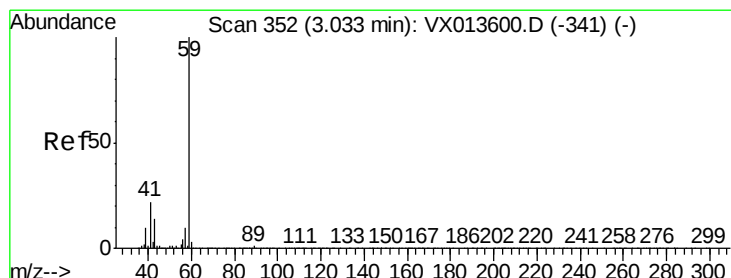
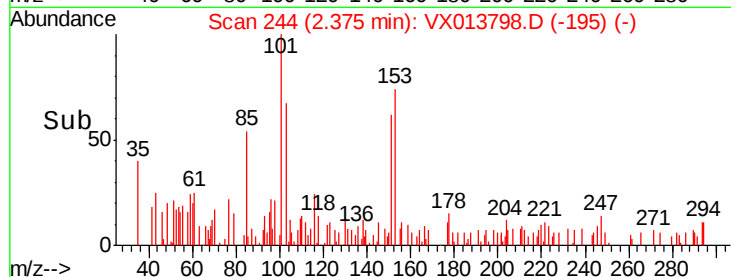
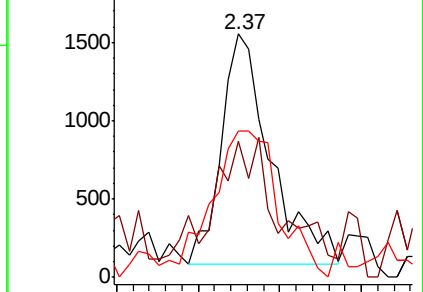
151 87.2 64.2 96.2



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



#11

Tert butyl alcohol

Concen: 0.592 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013798.D

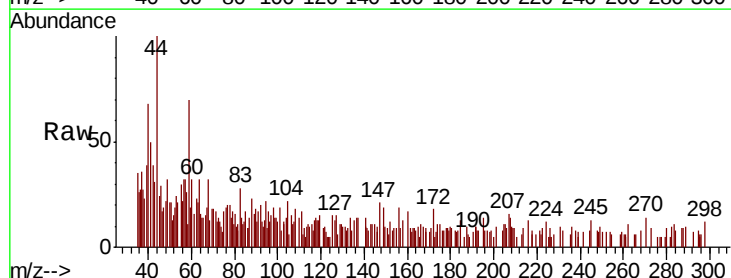
Acq: 06 Dec 2019 14:42

Tgt Ion: 59 Resp: 1096

Ion Ratio Lower Upper

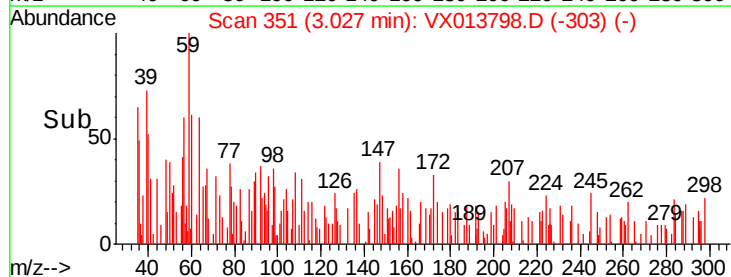
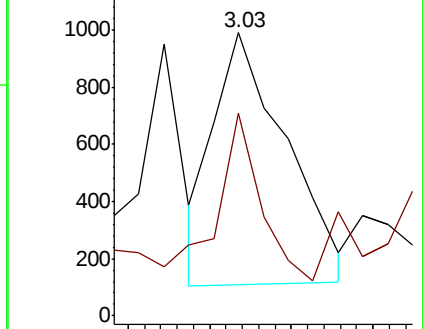
59 100

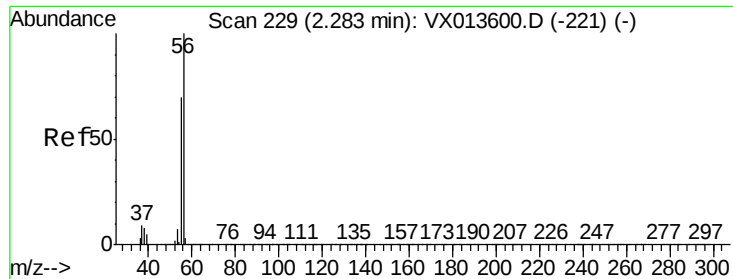
57 38.4 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

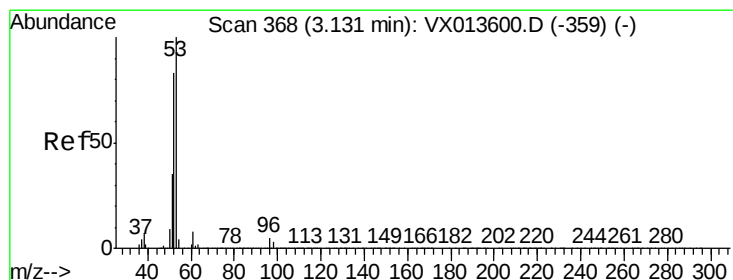
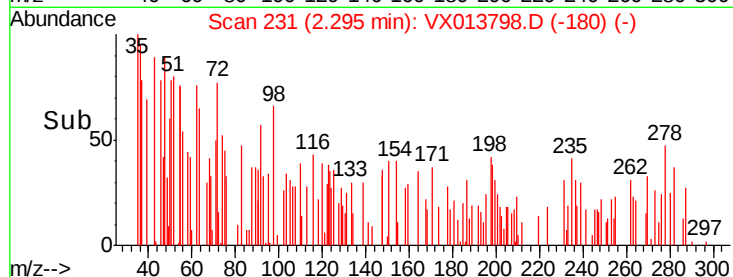
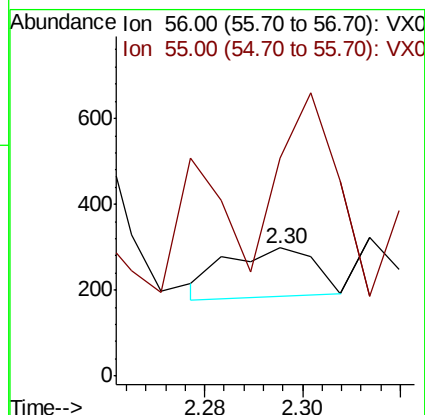
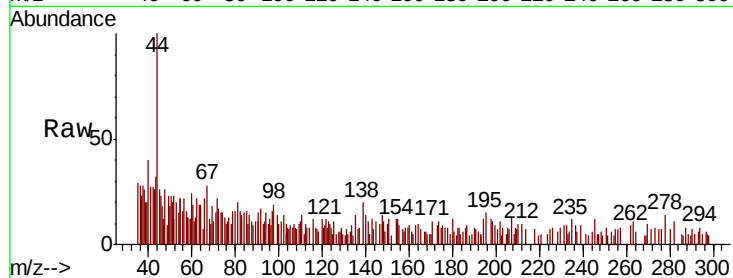




#13
Acrolein
Concen: 6.117 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX013798.D
Acq: 06 Dec 2019 14:42

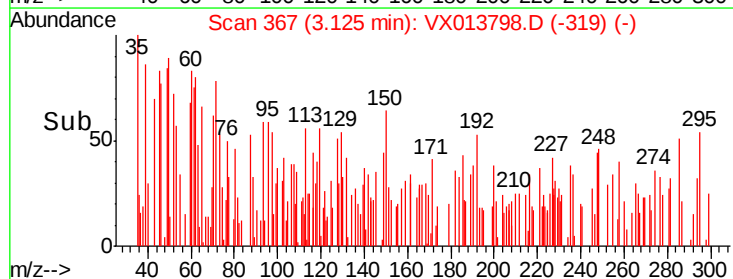
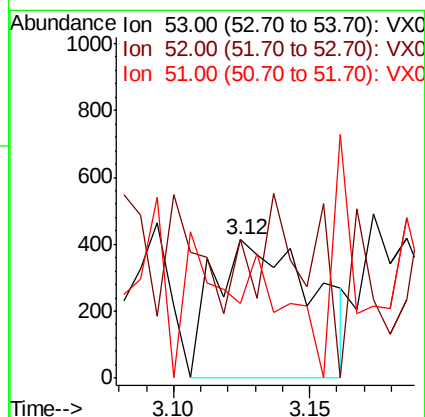
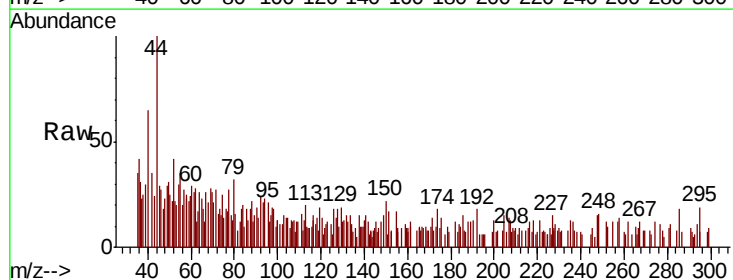
Instrument :
MSVOA_X
ClientSampleId :
RE126D3-20191203

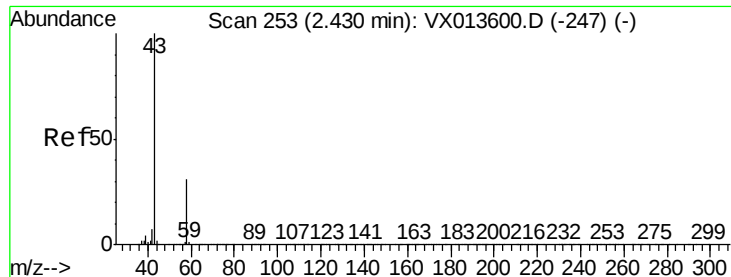
Tot Ion: 56 Resp: 143
Ion Ratio Lower Upper
56 100
55 327.3 56.2 84.4#



#15
Acrylonitrile
Concen: 0.275 ug/l
RT: 3.12 min Scan# 367
Delta R.T. -0.01 min
Lab File: VX013798.D
Acq: 06 Dec 2019 14:42

Tgt Ion: 53 Resp: 1050
Ion Ratio Lower Upper
53 100
52 30.5 66.2 99.2#
51 0.0 29.0 43.6#





#16

Acetone

Concen: 2.193 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

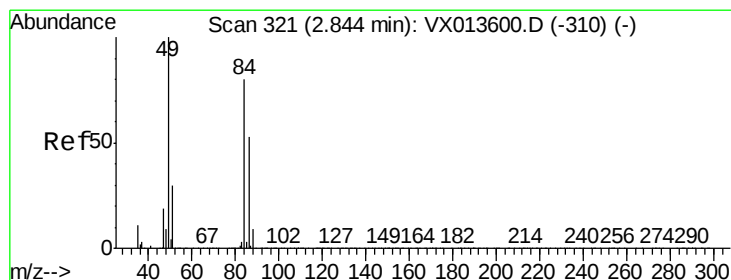
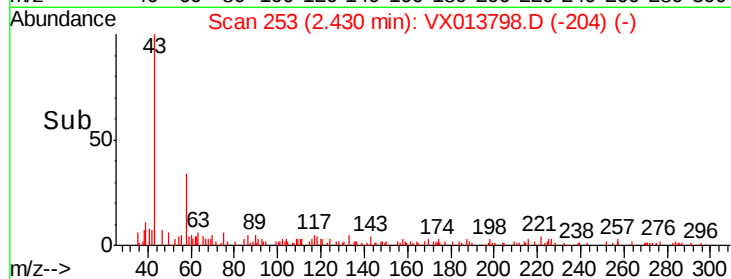
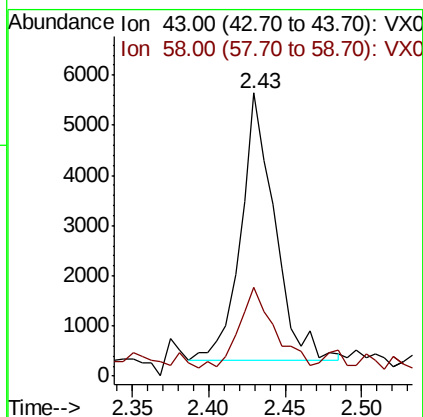
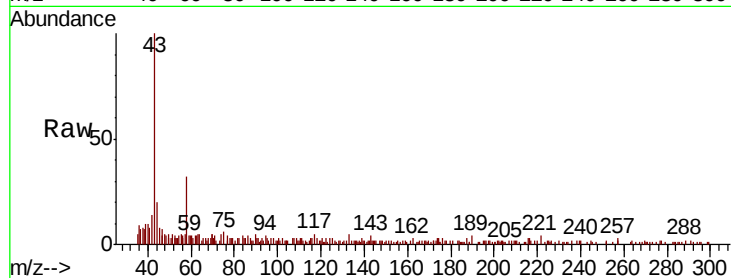
RE126D3-20191203

Tot Ion: 43 Resp: 8117

Ion Ratio Lower Upper

43 100

58 28.4 24.6 36.8



#20

Methylene Chloride

Concen: 0.252 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

Tgt Ion: 84 Resp: 1794

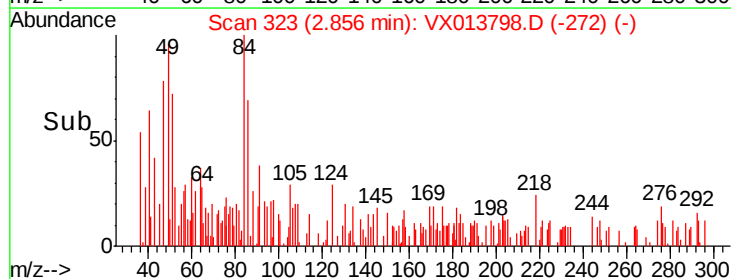
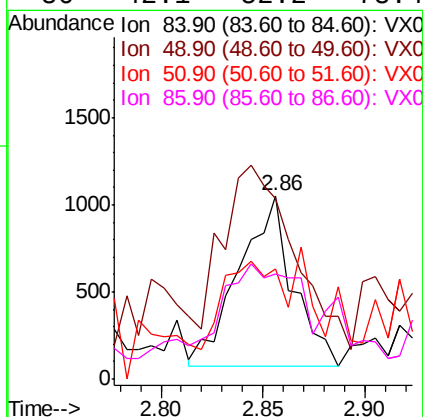
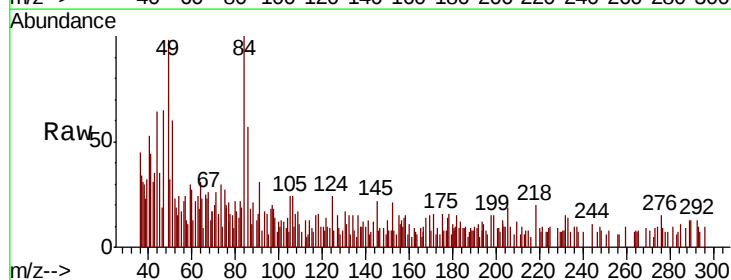
Ion Ratio Lower Upper

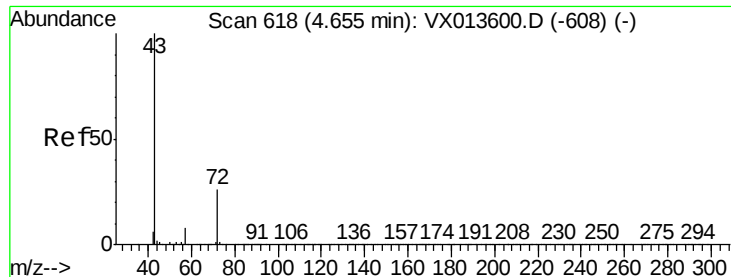
84 100

49 68.9 99.7 149.5#

51 44.4 29.9 44.9

86 42.1 52.2 78.4#





#25

2-Butanone

Concen: 0.208 ug/l

RT: 4.65 min Scan# 617

Delta R.T. -0.01 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

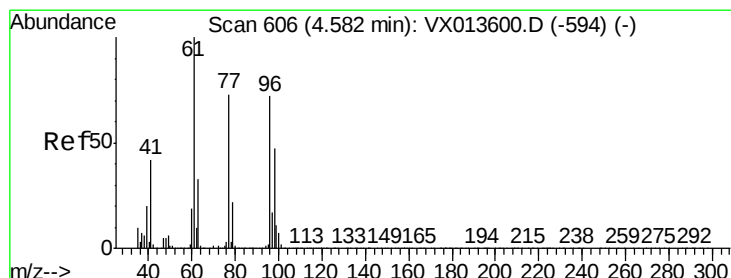
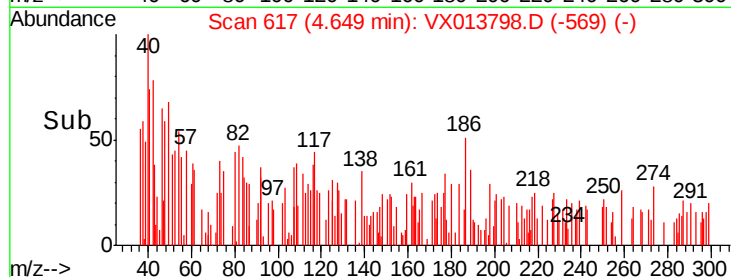
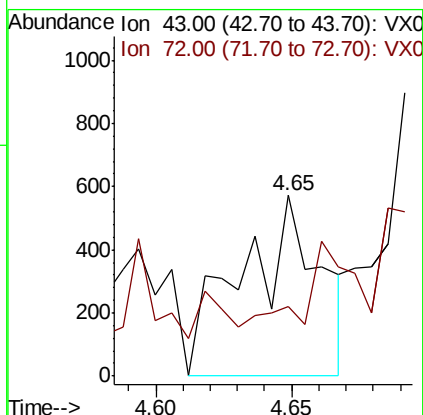
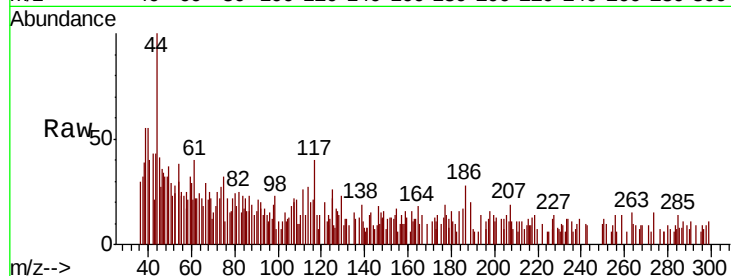
RE126D3-20191203

Tot Ion: 43 Resp: 1147

Ion Ratio Lower Upper

43 100

72 17.1 20.6 31.0#



#27

cis-1,2-Dichloroethene

Concen: 0.214 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

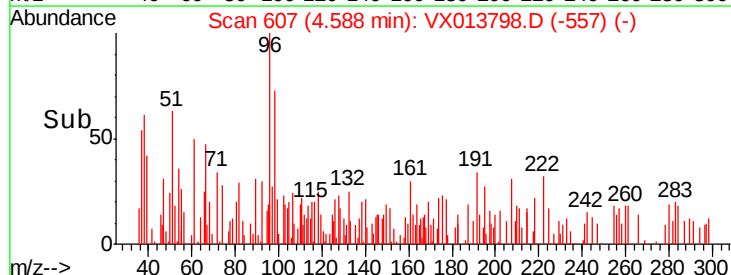
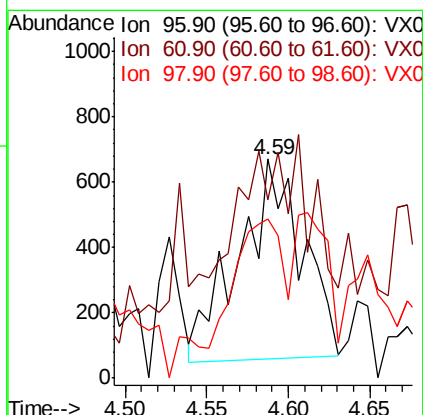
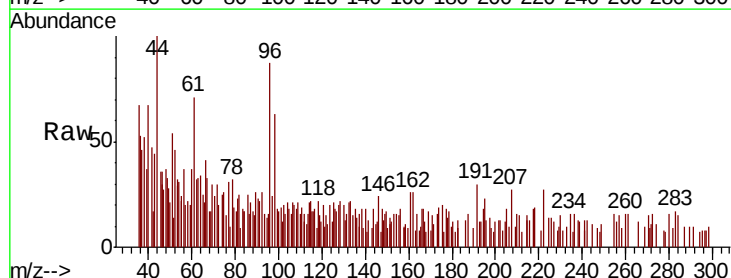
Tgt Ion: 96 Resp: 1649

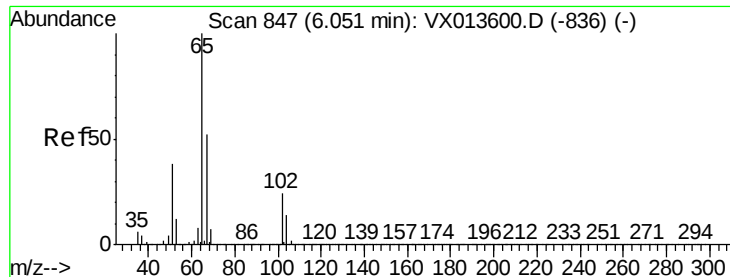
Ion Ratio Lower Upper

96 100

61 28.0 0.0 286.4

98 55.1 0.0 127.4





#33

1,2-Dichloroethane-d4

Concen: 47.415 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

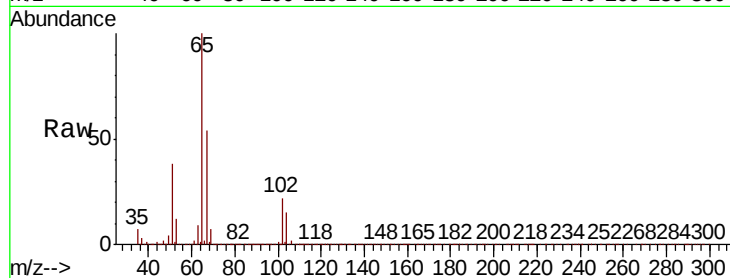
RE126D3-20191203

Tot Ion: 65 Resp: 35538

Ion Ratio Lower Upper

65 100

67 52.7 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

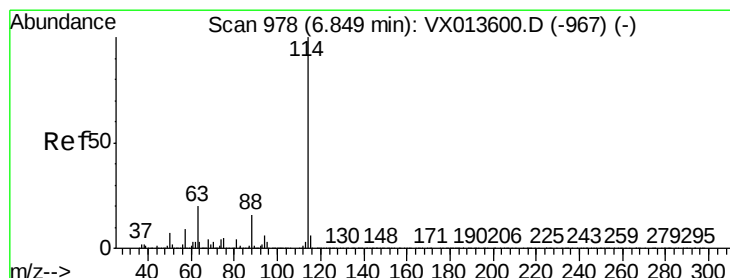
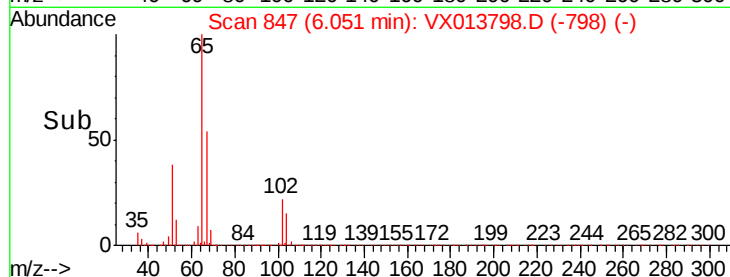
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

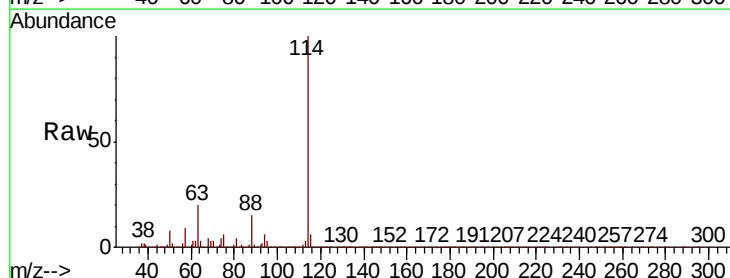
Tgt Ion: 114 Resp: 987693

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 15.2 0.0 31.4



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

6.85

500000

400000

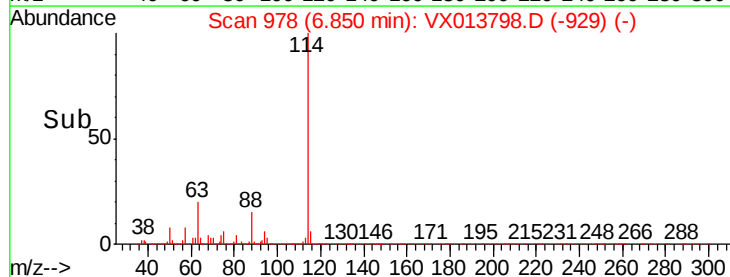
300000

200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.366 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

Instrument :

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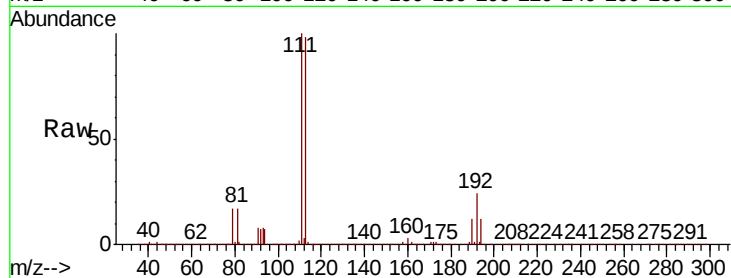
Tot Ion:113 Resp: 295327

Ion Ratio Lower Upper

113 100

111 102.4 83.6 125.4

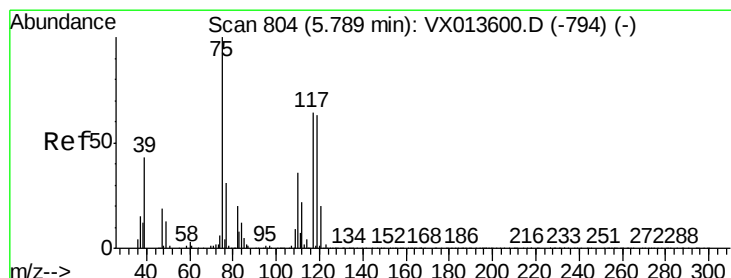
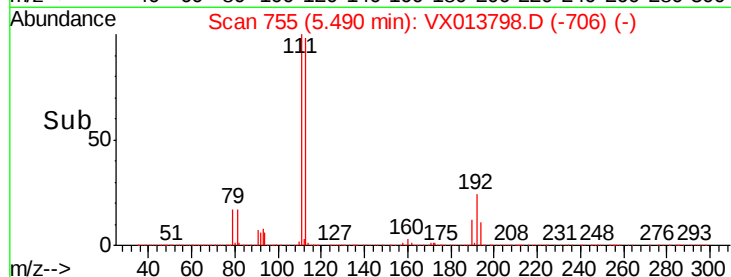
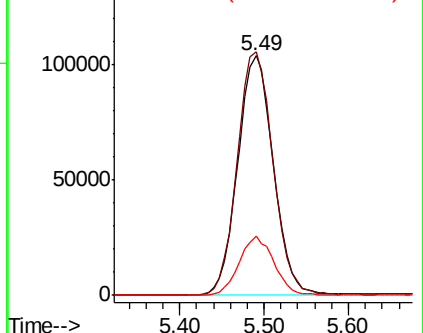
192 24.1 19.2 28.8



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: 4.828 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

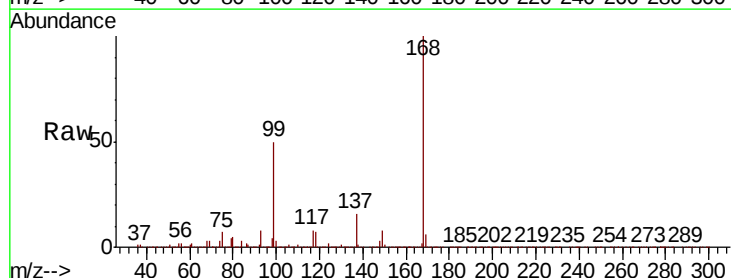
Tgt Ion: 75 Resp: 43291

Ion Ratio Lower Upper

75 100

110 11.0 18.1 54.1#

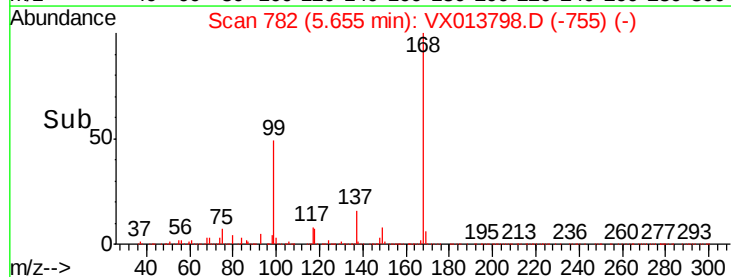
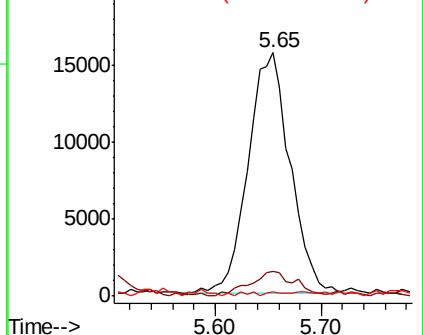
77 0.7 24.5 36.7#

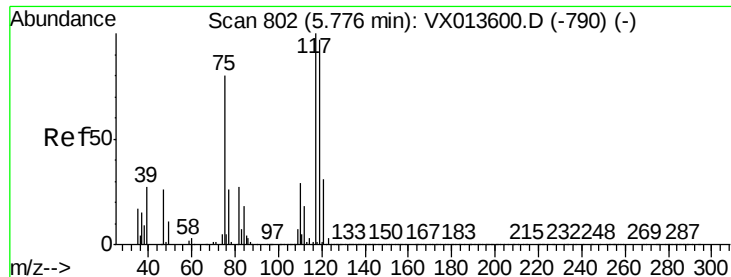


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.796 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-20191203

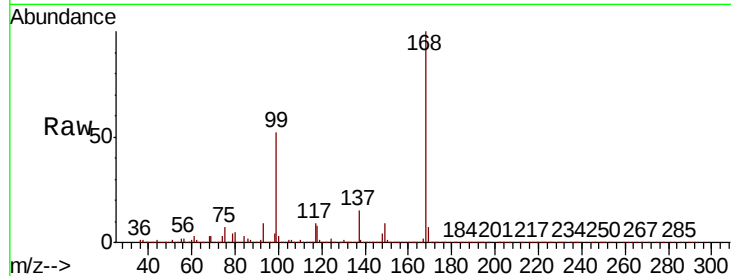
Tot Ion:117 Resp: 56185

Ion Ratio Lower Upper

117 100

119 5.2 77.5 116.3#

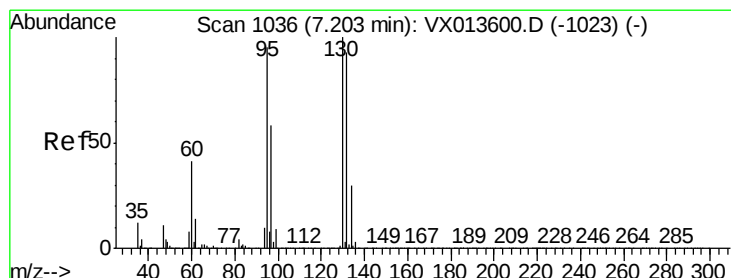
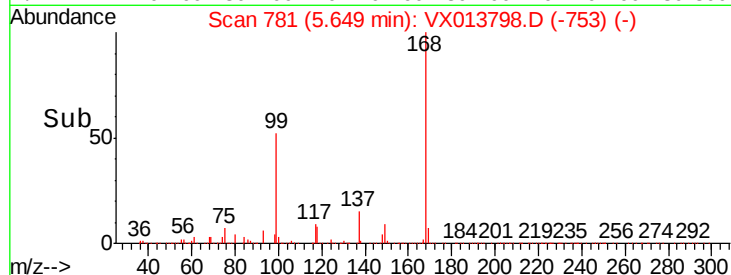
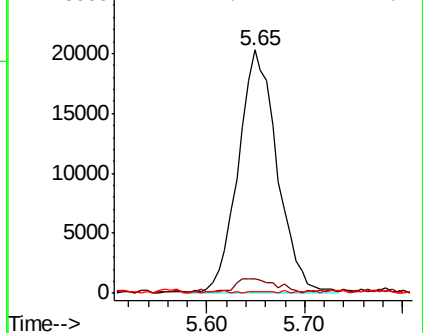
121 0.0 25.0 37.6#



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



#44

Trichloroethene

Concen: 2.959 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013798.D

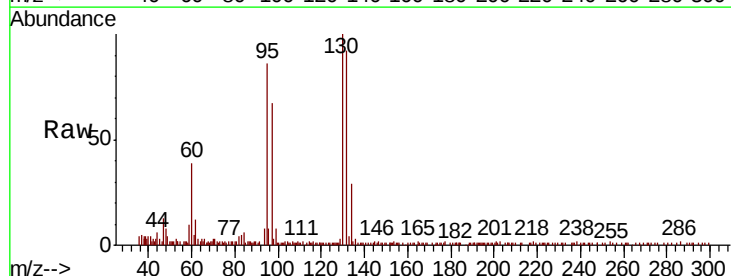
Acq: 06 Dec 2019 14:42

Tgt Ion:130 Resp: 22179

Ion Ratio Lower Upper

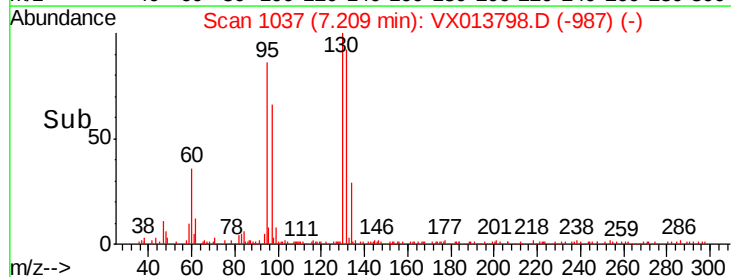
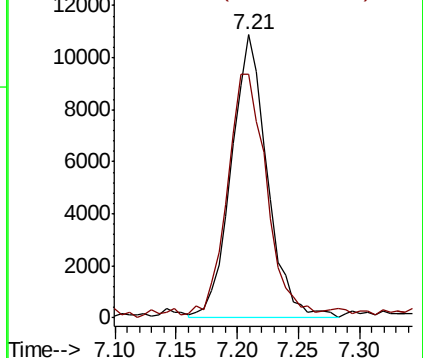
130 100

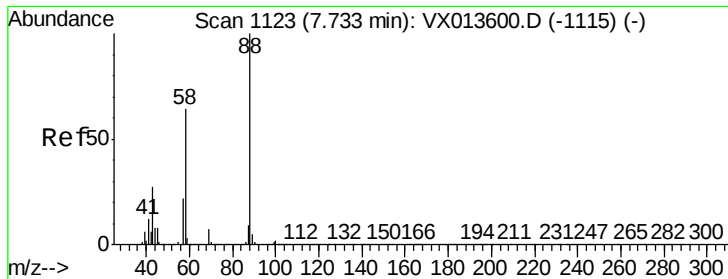
95 84.9 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

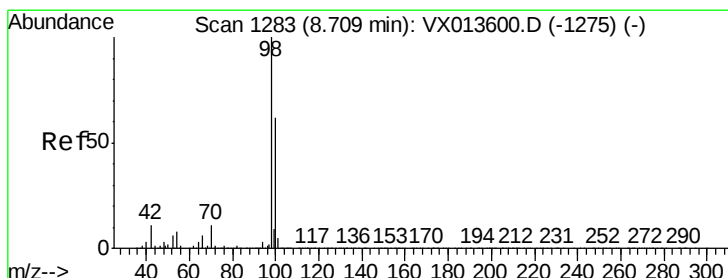
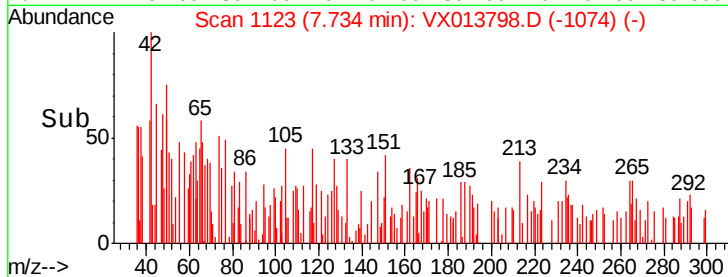
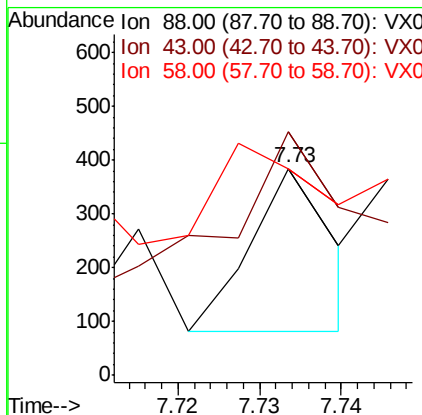
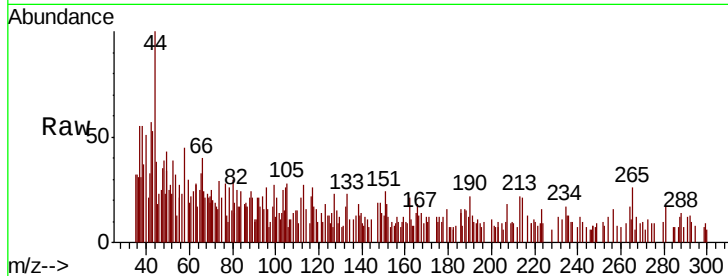




#49
1,4-Dioxane
Concen: 1.183 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX013798.D
Acq: 06 Dec 2019 14:42

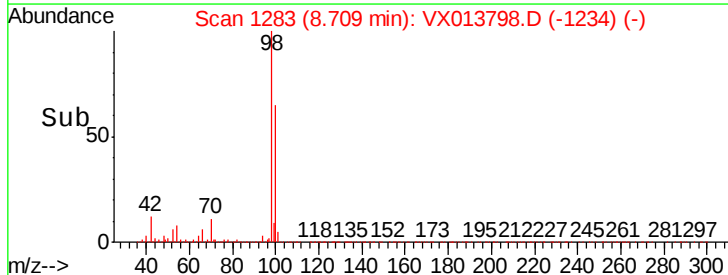
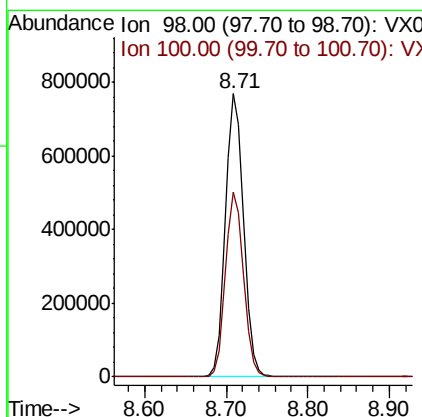
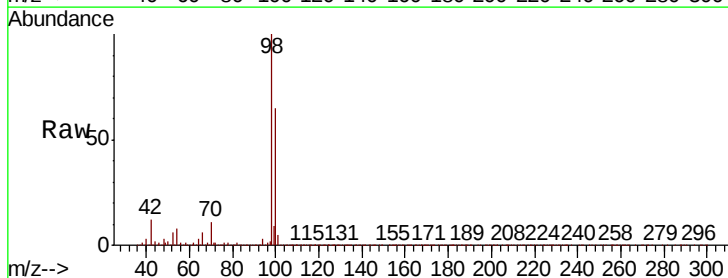
Instrument :
MSVOA_X
ClientSampleId :
RE126D3-20191203

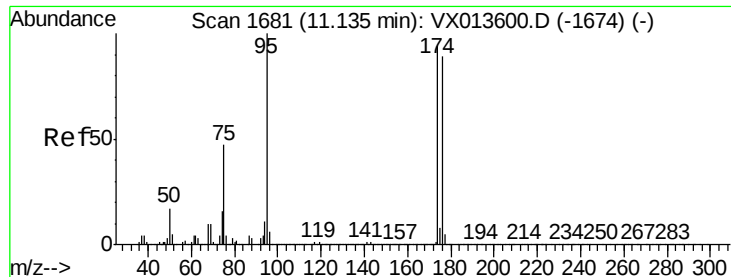
Tot Ion: 88 Resp: 213
Ion Ratio Lower Upper
88 100
43 95.8 25.8 38.6#
58 430.0 54.6 82.0#



#50
Toluene-d8
Concen: 49.390 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013798.D
Acq: 06 Dec 2019 14:42

Tgt Ion: 98 Resp: 1174981
Ion Ratio Lower Upper
98 100
100 65.1 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 45.323 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-20191203

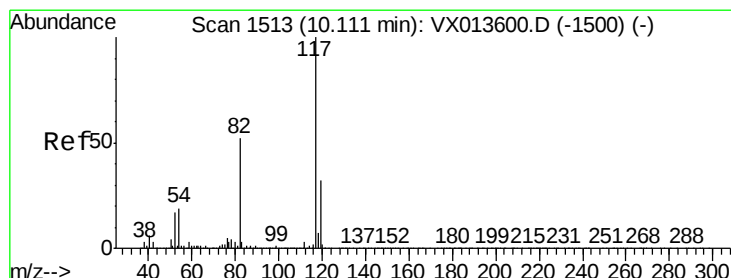
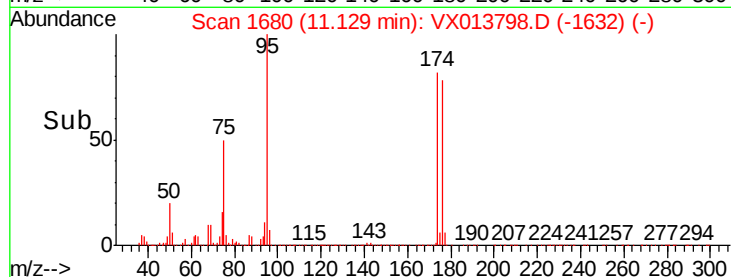
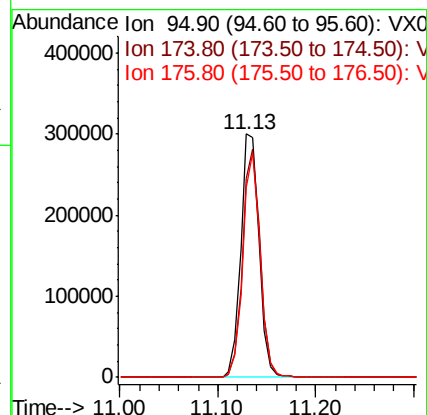
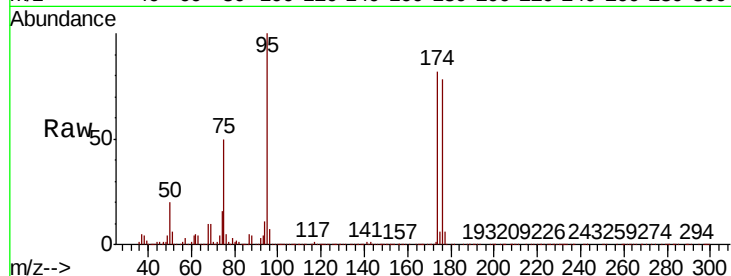
Tot Ion: 95 Resp: 388808

Ion Ratio Lower Upper

95 100

174 90.5 0.0 180.0

176 87.5 0.0 173.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

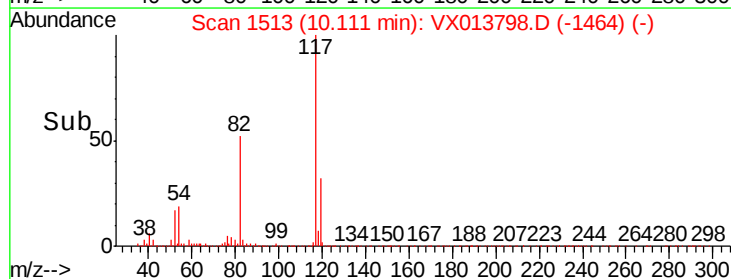
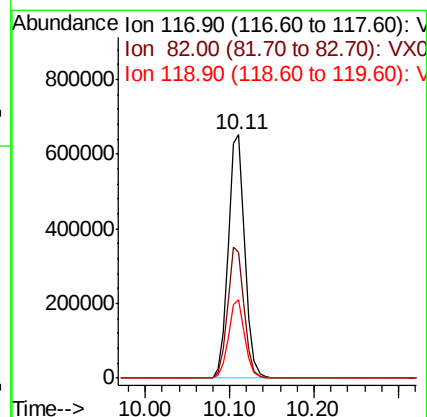
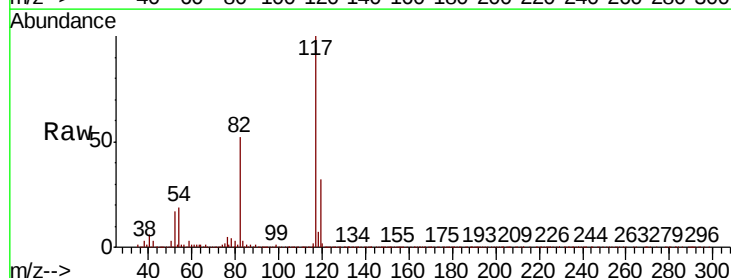
Tgt Ion: 117 Resp: 884597

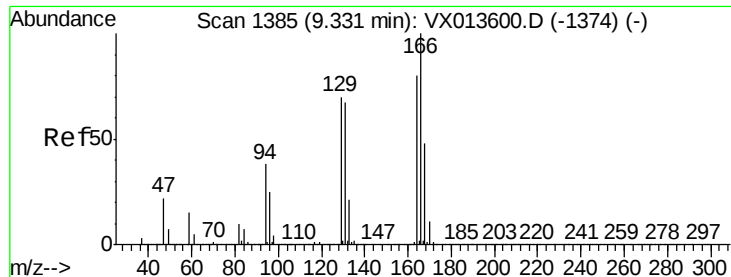
Ion Ratio Lower Upper

117 100

82 51.6 41.8 62.8

119 32.3 25.8 38.8

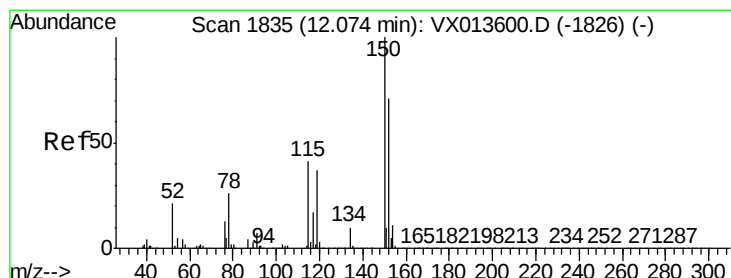
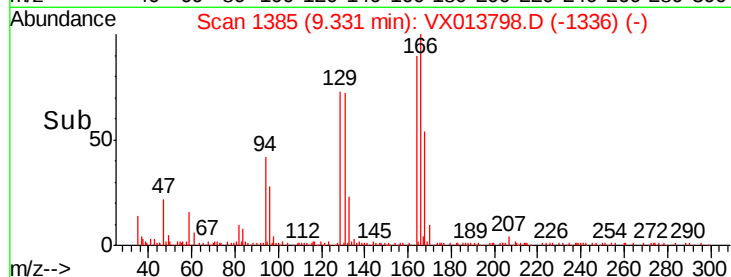
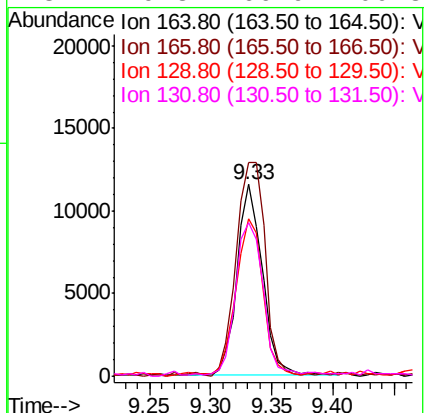
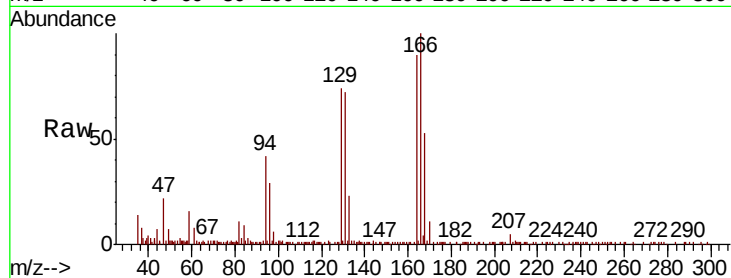




#64
Tetrachloroethene
Concen: 2.515 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013798.D
Acq: 06 Dec 2019 14:42

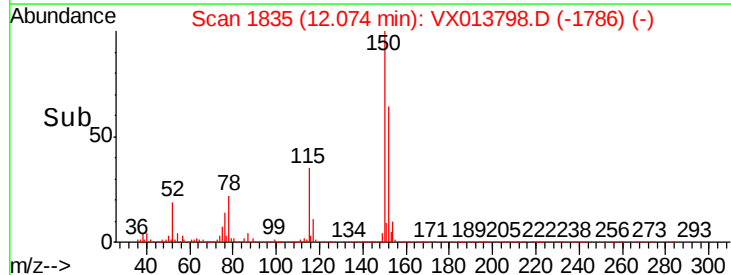
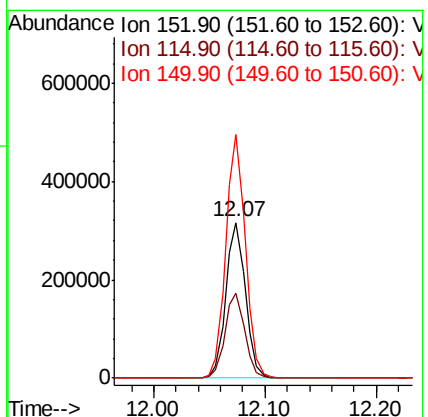
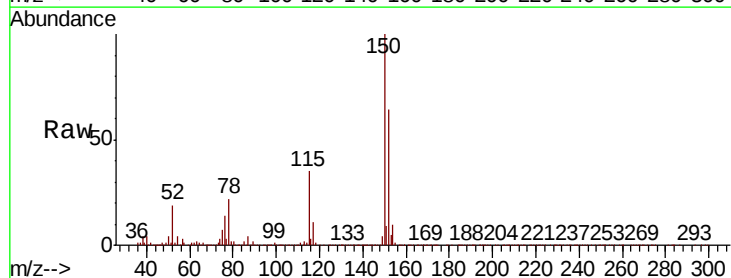
Instrument :
MSVOA_X
ClientSampleId :
RE126D3-20191203

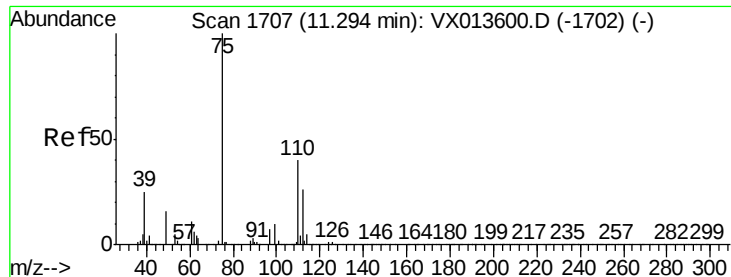
Tot Ion:	164	Resp:	16594
Ion	Ratio	Lower	Upper
164	100		
166	110.9	99.7	149.5
129	81.9	70.1	105.1
131	79.3	66.9	100.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013798.D
Acq: 06 Dec 2019 14:42

Tgt Ion:	152	Resp:	383278
Ion	Ratio	Lower	Upper
152	100		
115	55.2	38.4	115.1
150	156.6	0.0	346.8





#76

1,2,3-Trichloropropane

Concen: 22.466 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

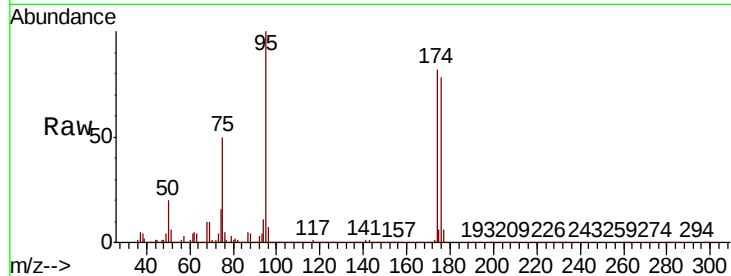
RE126D3-20191203

Tot Ion: 75 Resp: 193668

Ion Ratio Lower Upper

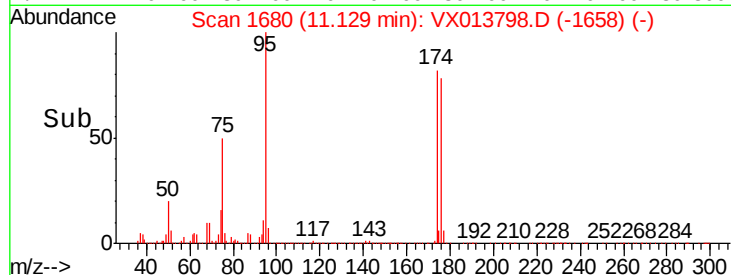
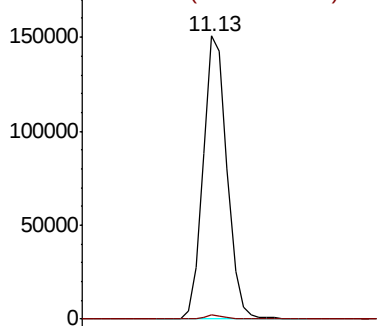
75 100

77 1.5 19.1 57.5#

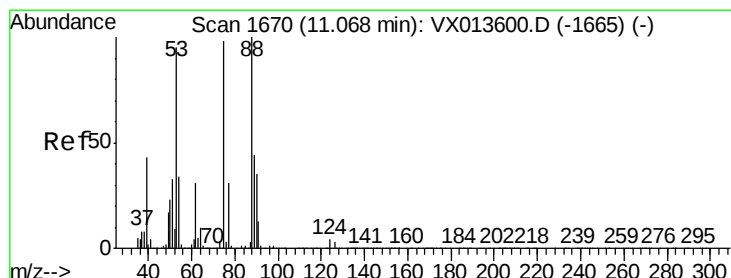


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.462 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013798.D

Acq: 06 Dec 2019 14:42

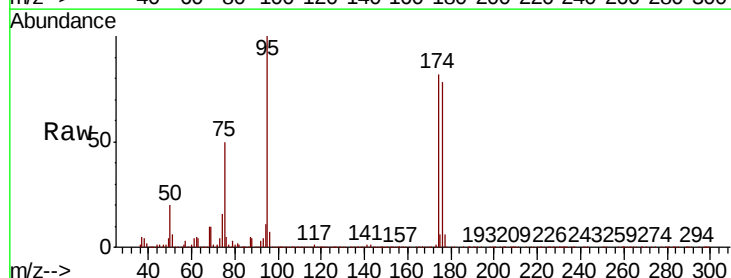
Tgt Ion: 75 Resp: 193668

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

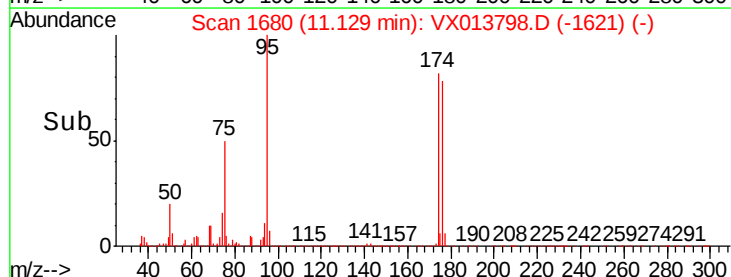
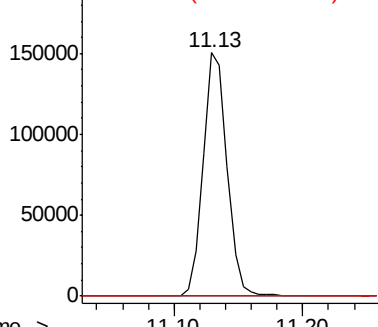
89 0.3 35.4 53.2#



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



Time-->