

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101118\
 Data File : VX005267.D
 Acq On : 11 Oct 2018 21:20
 Operator : JC/MD
 Sample : J5393-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-126D3-20181008

Quant Time: Oct 12 07:12:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	188759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	267487	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	266616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	147887	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	141091	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
35) Dibromofluoromethane	5.51	113	125051	55.16	ug/l	0.00
Spiked Amount			Recovery	=	110.32%	
50) Toluene-d8	8.72	98	384786	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	
62) 4-Bromofluorobenzene	11.14	95	136418	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	

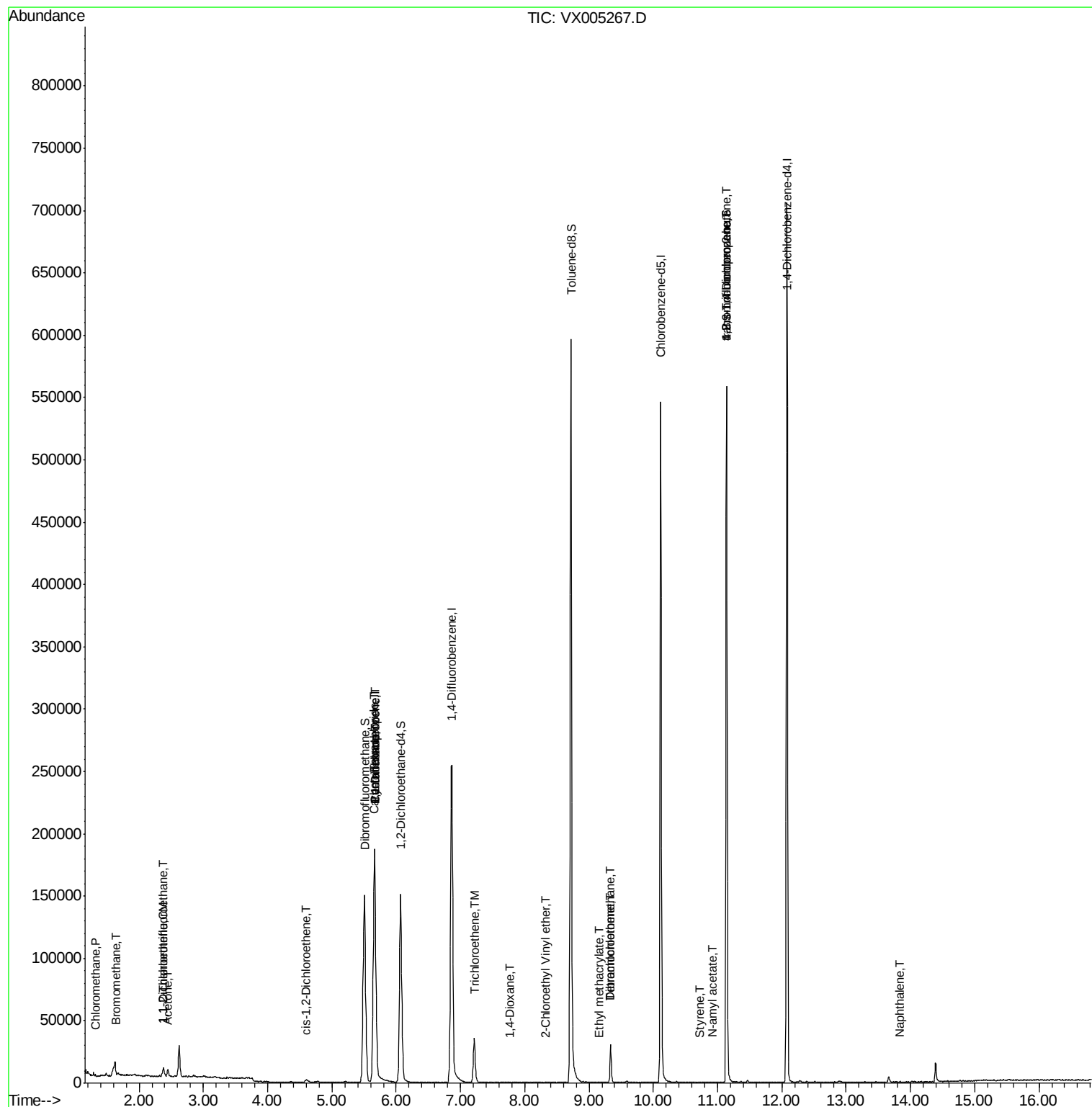
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	779	0.249	ug/l #	88
5) Bromomethane	1.64	94	434	0.250	ug/l #	32
6) Chloroethane	1.70	64	2998	Below Cal	#	53
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1543	0.747	ug/l	96
12) 1,1-Dichloroethene	2.37	96	1225	0.599	ug/l	89
16) Acetone	2.45	43	6359	4.039	ug/l	98
20) Methylene Chloride	2.87	84	571	Below Cal	#	79
27) cis-1,2-Dichloroethene	4.59	96	661	0.264	ug/l #	1
31) Cyclohexane	5.66	56	3521	1.026	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	12786	4.134	ug/l #	44
38) Carbon Tetrachloride	5.65	117	16939	5.210	ug/l #	18
44) Trichloroethene	7.21	130	13892	5.836	ug/l	99
49) 1,4-Dioxane	7.77	88	283	4.235	ug/l #	70
56) Ethyl methacrylate	9.15	69	22	2.868	ug/l #	22
58) 2-Chloroethyl Vinyl ether	8.32	63	44	14.263	ug/l #	49
60) Dibromochloromethane	9.34	129	5456	2.341	ug/l #	10
64) Tetrachloroethene	9.34	164	6211	2.367	ug/l	91
70) Styrene	10.73	104	38	2.145	ug/l #	25
74) N-amyl acetate	10.91	43	217	1.789	ug/l #	48
76) 1,2,3-Trichloropropane	11.14	75	67513	20.368	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	98	Below Cal	#	29
81) trans-1,4-Dichloro-2-buten	11.14	75	67513	55.330	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	200	Below Cal	#	62
95) Naphthalene	13.83	128	210	0.736	ug/l #	78

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

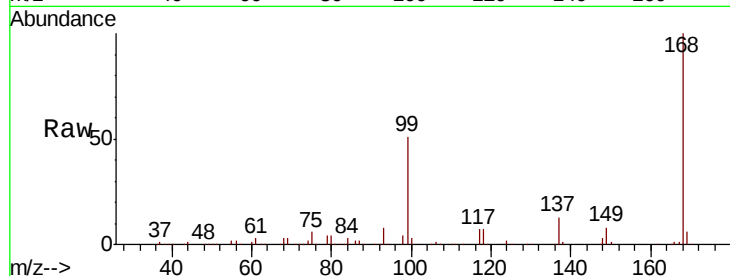
RE-126D3-20181008

Tot Ion:168 Resp: 188759

Ion Ratio Lower Upper

168 100

99 50.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

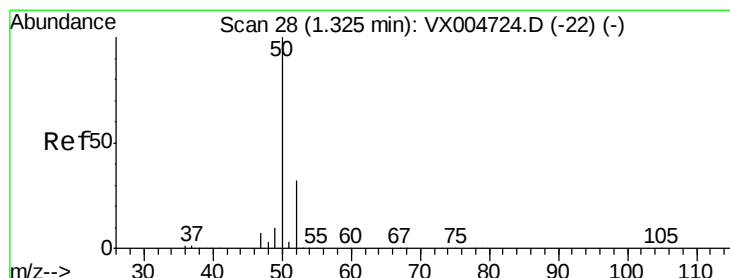
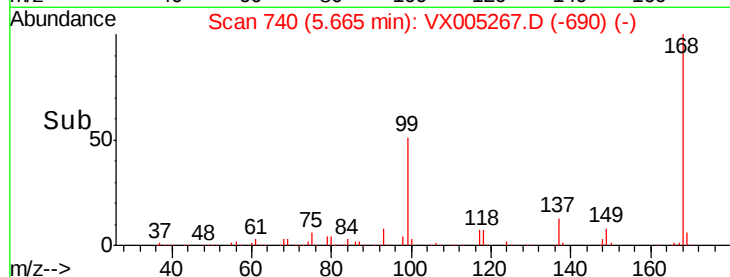
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.249 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005267.D

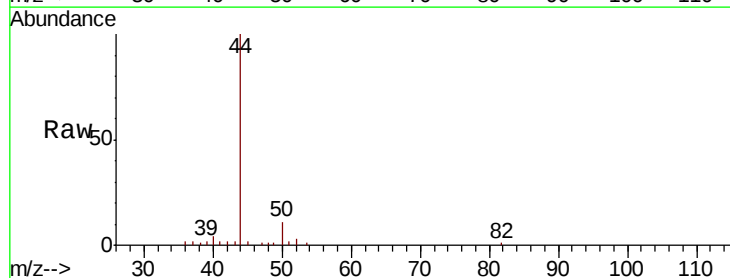
Acq: 11 Oct 2018 21:20

Tgt Ion: 50 Resp: 779

Ion Ratio Lower Upper

50 100

52 25.3 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

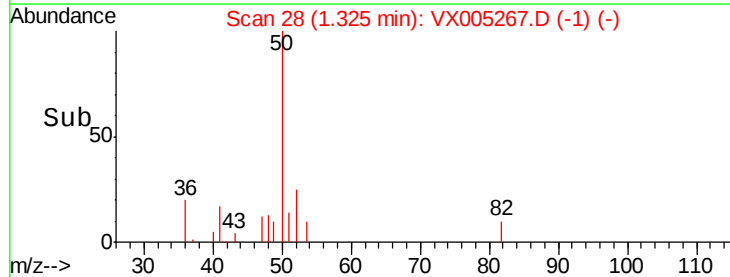
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.250 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

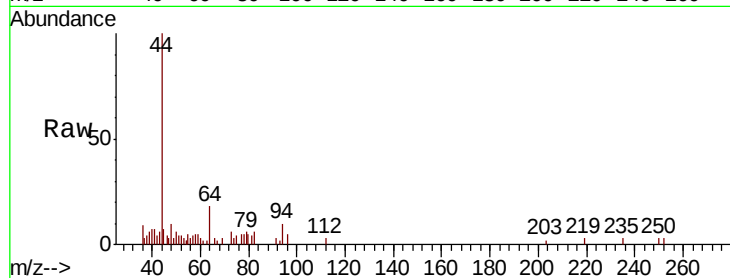
RE-126D3-20181008

Tot Ion: 94 Resp: 434

Ion Ratio Lower Upper

94 100

96 31.7 79.5 119.3#



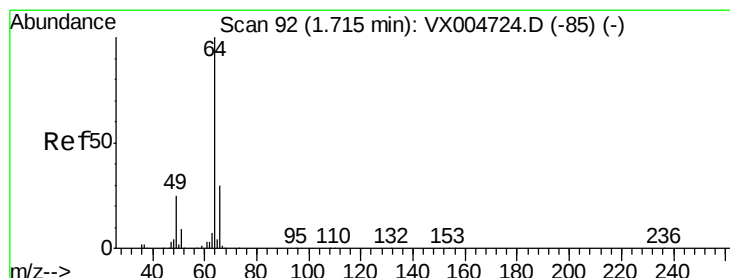
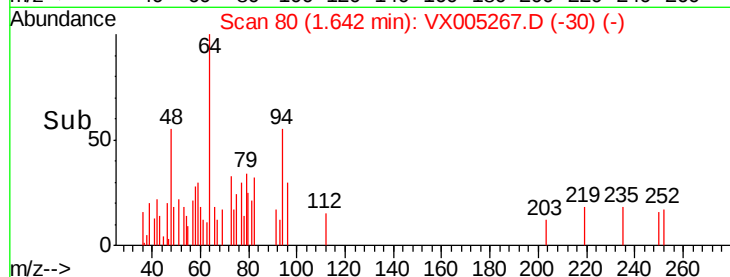
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

Time-->

1.64

1.65



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX005267.D

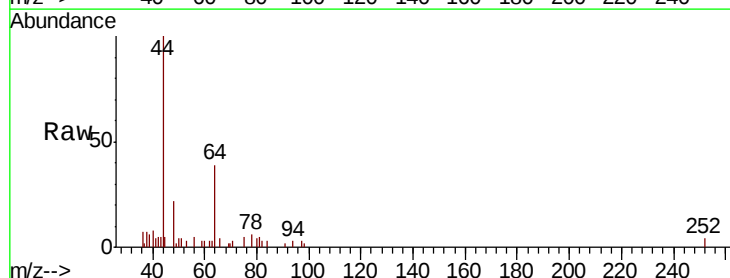
Acq: 11 Oct 2018 21:20

Tgt Ion: 64 Resp: 2998

Ion Ratio Lower Upper

64 100

66 4.2 23.8 35.6#



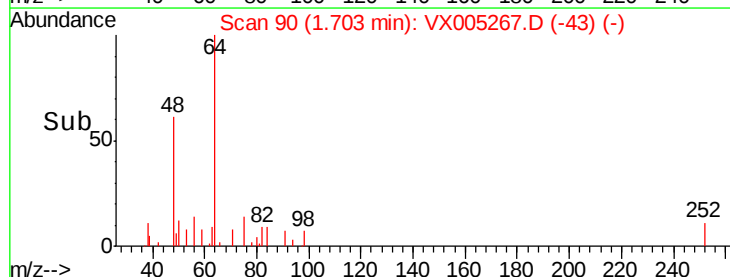
Abundance Ion 63.90 (63.60 to 64.60): VX0

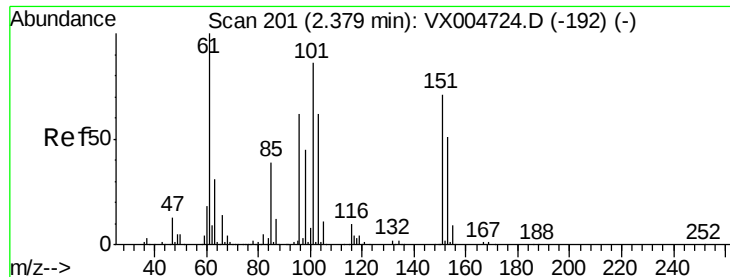
Ion 65.90 (65.60 to 66.60): VX0

Time-->

1.70

1.75





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.747 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

RE-126D3-20181008

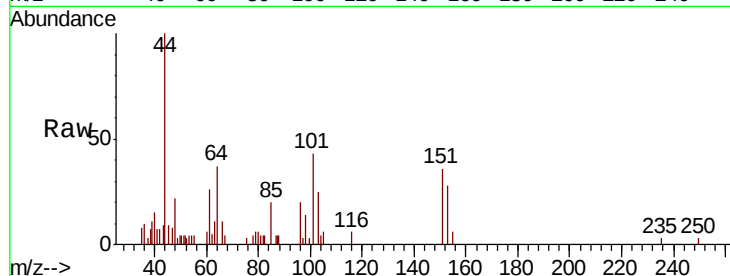
Tot Ion:101 Resp: 1543

Ion Ratio Lower Upper

101 100

85 47.2 35.9 53.9

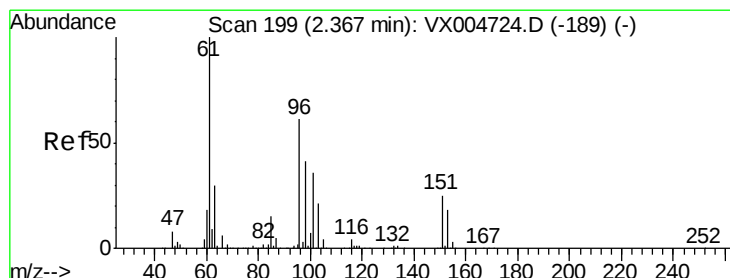
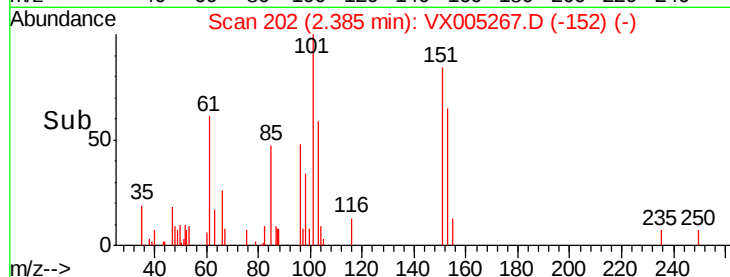
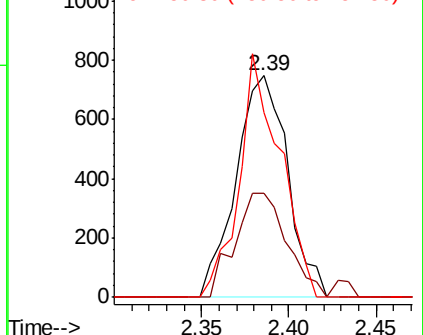
151 87.2 66.6 100.0



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



#12

1,1-Dichloroethene

Concen: 0.599 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

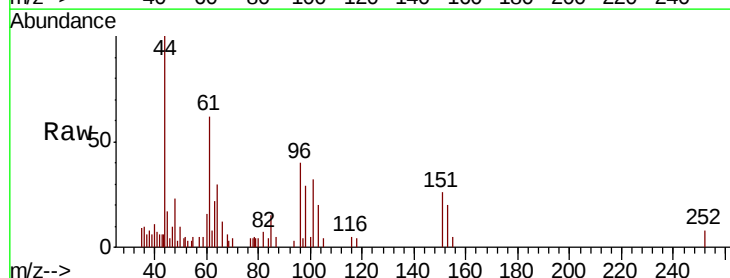
Tgt Ion: 96 Resp: 1225

Ion Ratio Lower Upper

96 100

61 147.6 130.2 195.4

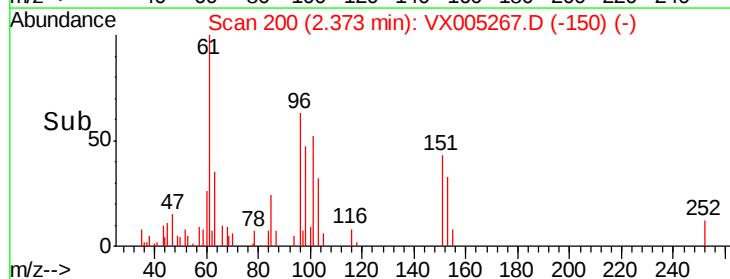
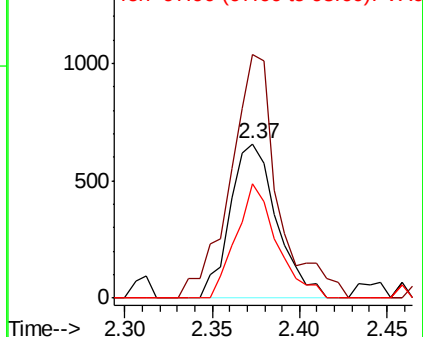
98 73.7 53.4 80.0

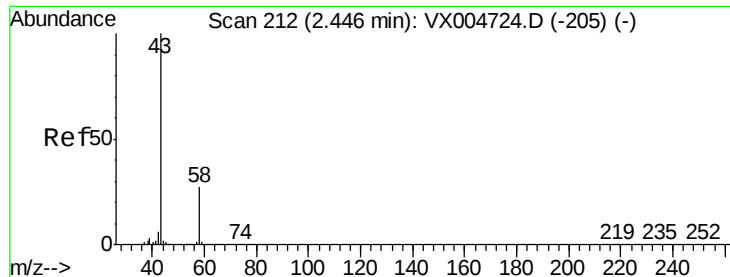


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#16

Acetone

Concen: 4.039 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

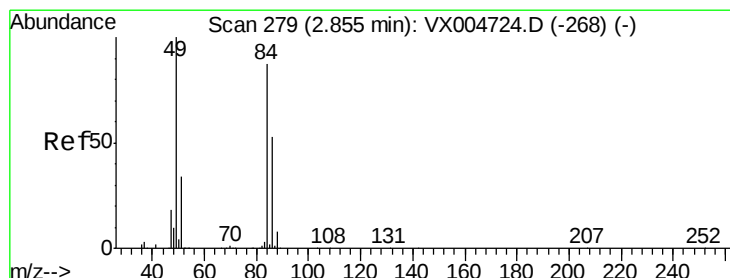
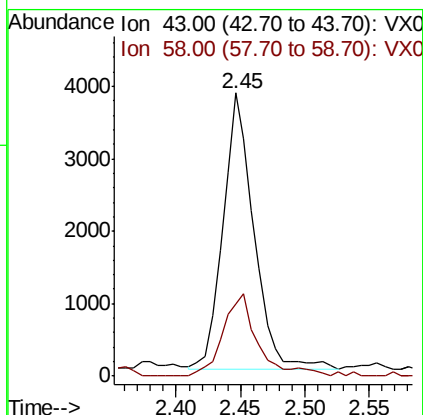
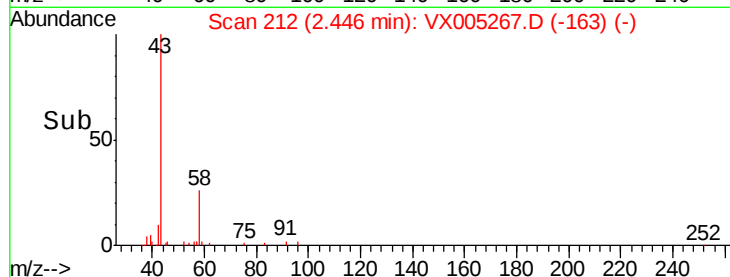
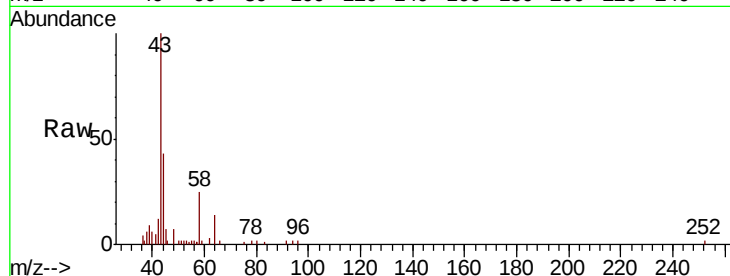
RE-126D3-20181008

Tot Ion: 43 Resp: 6359

Ion Ratio Lower Upper

43 100

58 26.1 21.8 32.6



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Tgt Ion: 84 Resp: 571

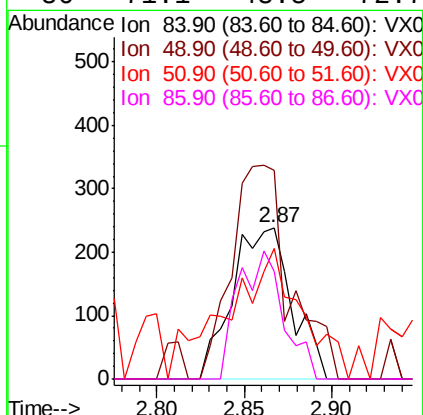
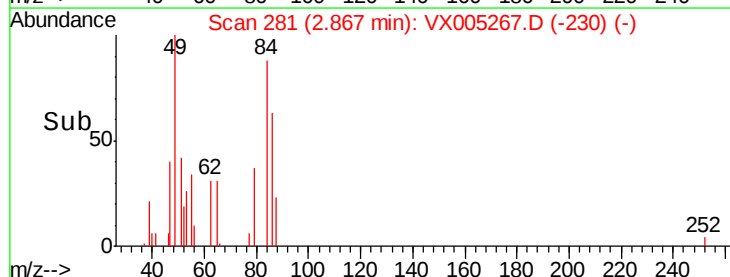
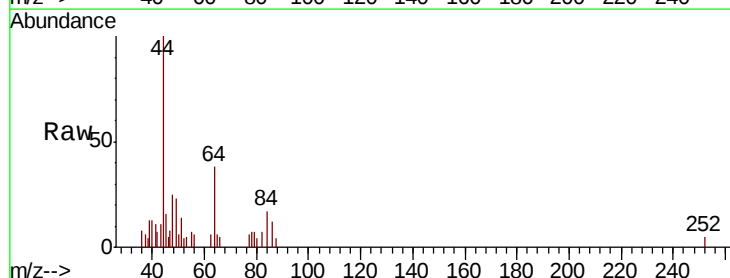
Ion Ratio Lower Upper

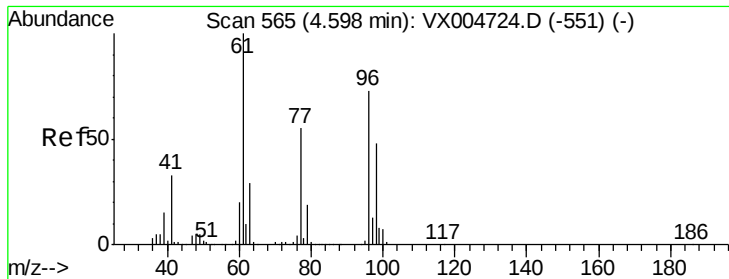
84 100

49 137.7 92.3 138.5

51 61.5 31.8 47.6#

86 71.1 48.5 72.7



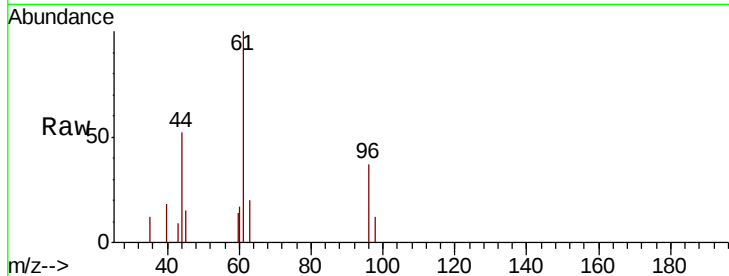


#27

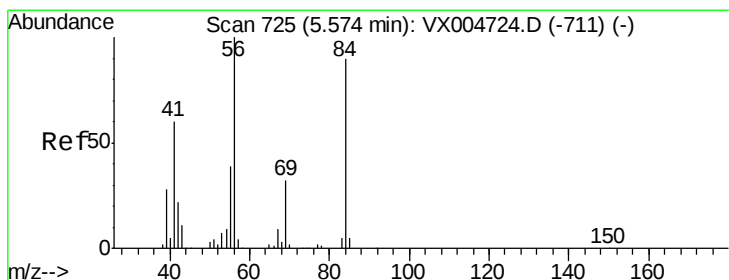
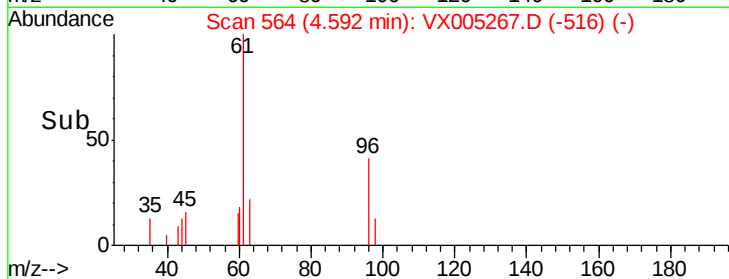
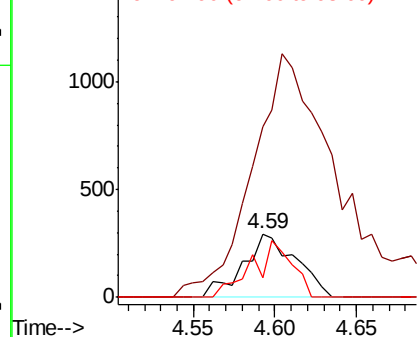
cis-1,2-Dichloroethene
 Concen: 0.264 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX005267.D
 Acq: 11 Oct 2018 21:20

Instrument :
 MSVOA_X
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 RE-126D3-20181008

Tot Ion	Ratio	Lower	Upper
96	100		
61	645.4	0.0	285.8#
98	67.9	0.0	136.2



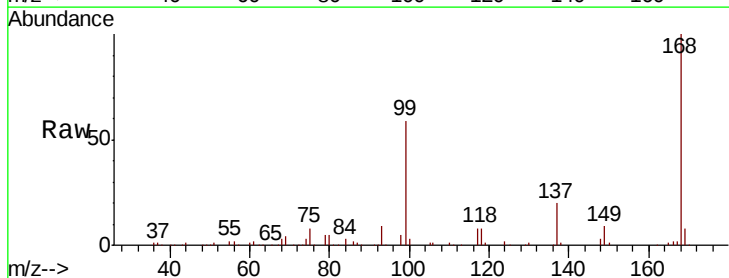
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



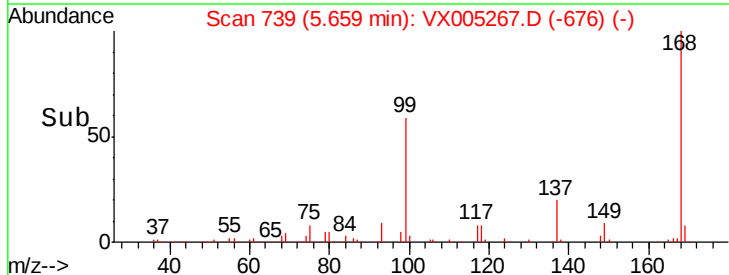
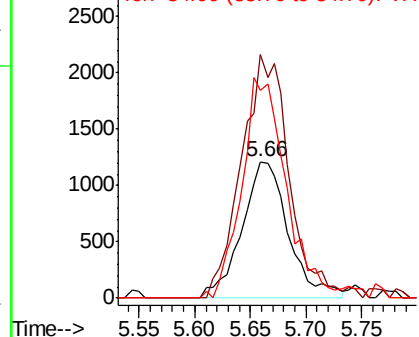
#31

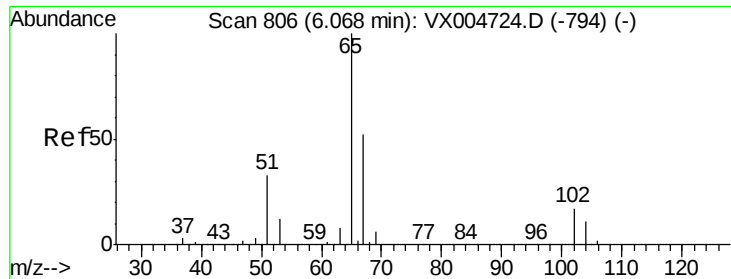
Cyclohexane
 Concen: 1.026 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.09 min
 Lab File: VX005267.D
 Acq: 11 Oct 2018 21:20

Tgt Ion	Ratio	Lower	Upper
56	100		
69	178.8	25.9	38.9#
84	152.5	71.9	107.9#



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: 52.325 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

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ClientSampleId :

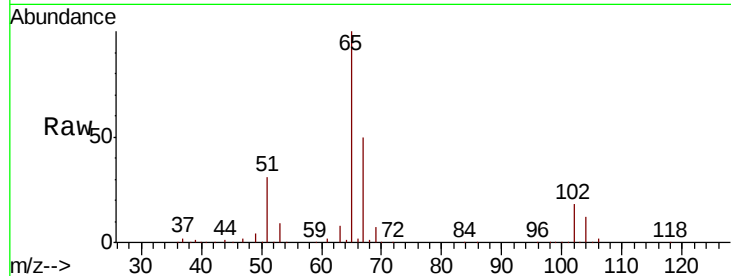
RE-126D3-20181008

Tot Ion: 65 Resp: 141091

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

50000

40000

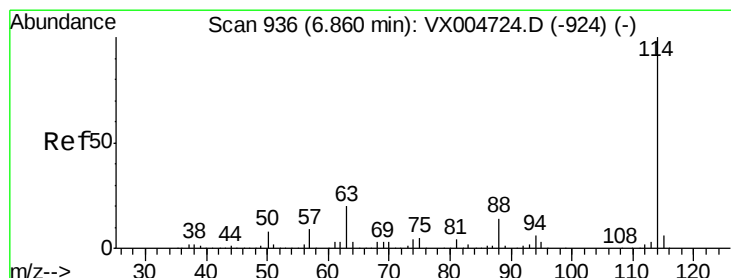
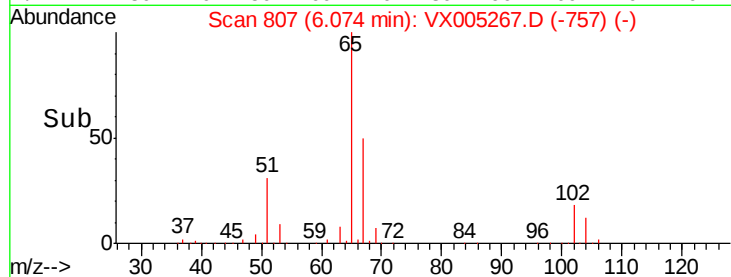
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

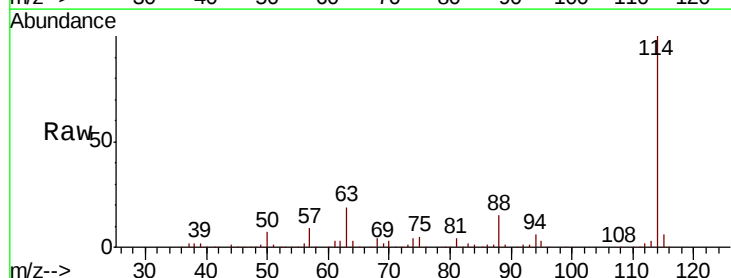
Tgt Ion: 114 Resp: 267487

Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.8

88 15.1 0.0 27.0



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

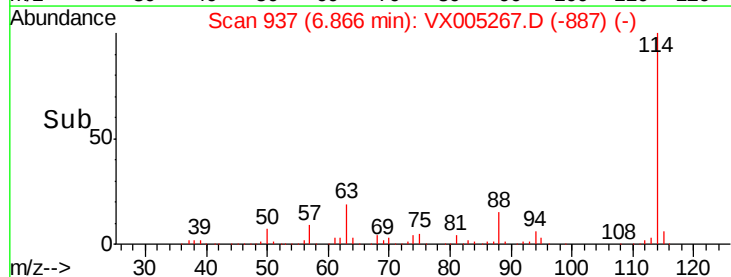
150000

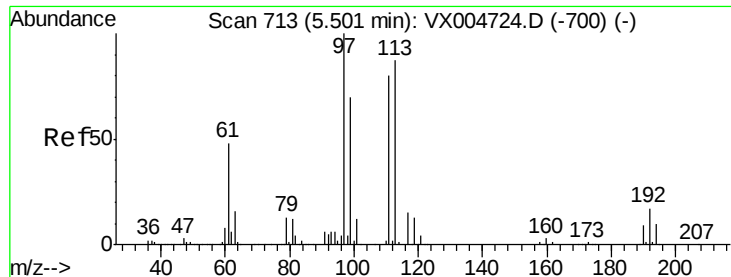
100000

50000

0

Time--> 6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 55.162 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005267.D

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Instrument :

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ClientSampleId :

RE-126D3-20181008

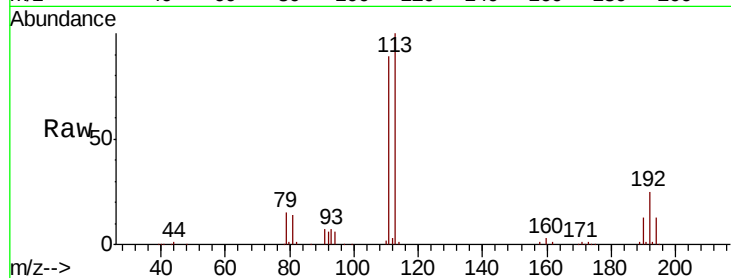
Tot Ion:113 Resp: 125051

Ion Ratio Lower Upper

113 100

111 98.4 77.0 115.4

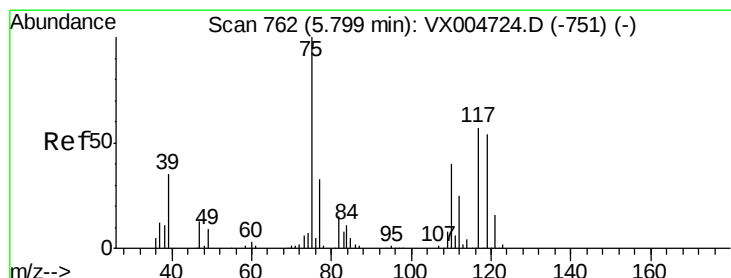
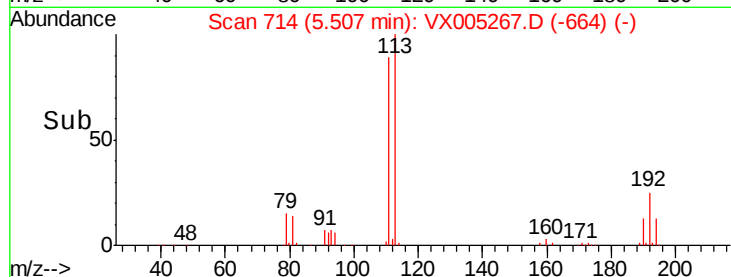
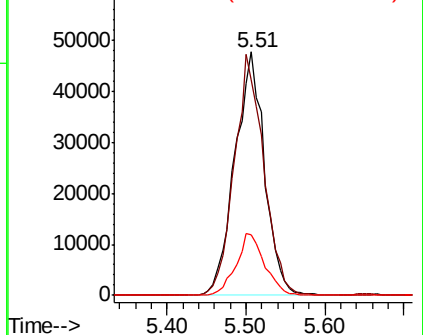
192 24.3 17.0 25.6



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: 4.134 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

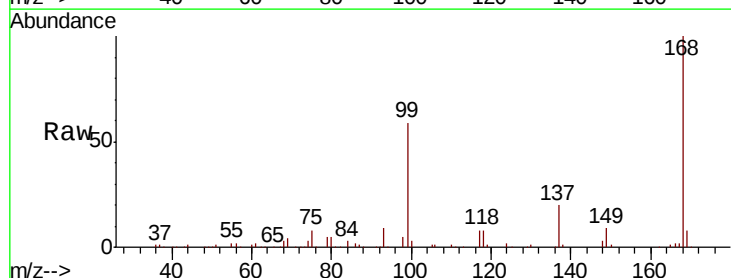
Tgt Ion: 75 Resp: 12786

Ion Ratio Lower Upper

75 100

110 7.5 20.0 59.9#

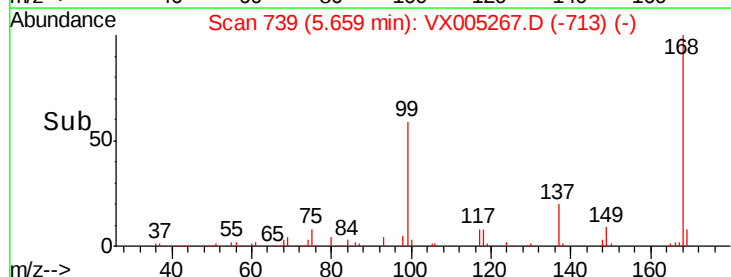
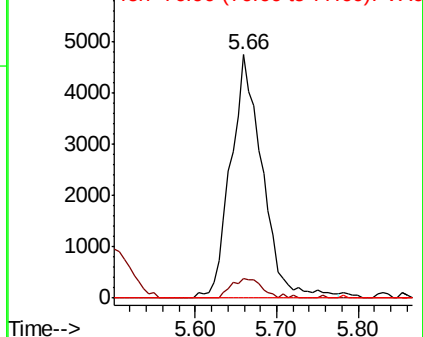
77 0.0 27.1 40.7#

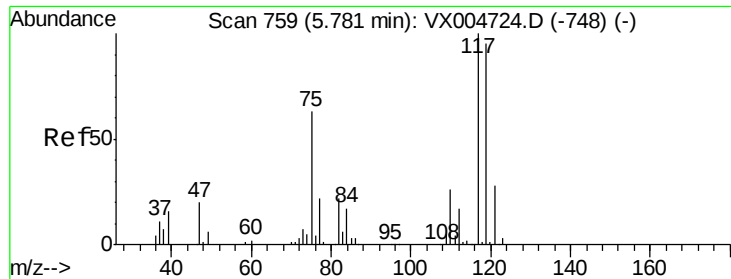


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

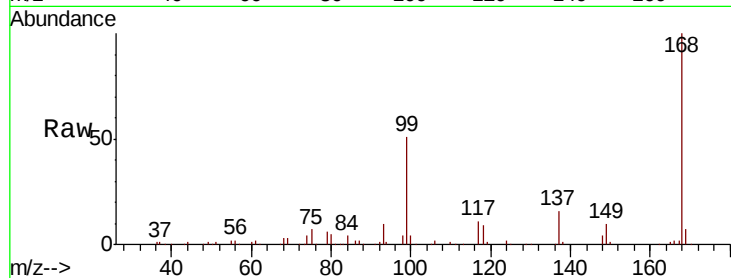




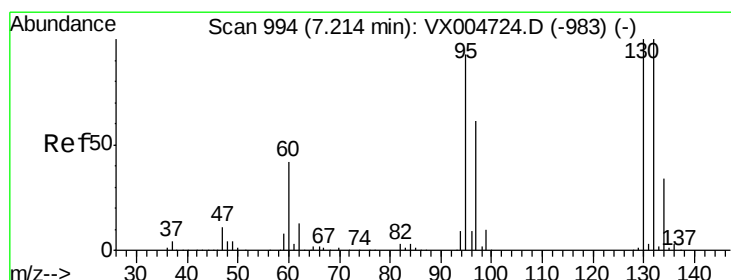
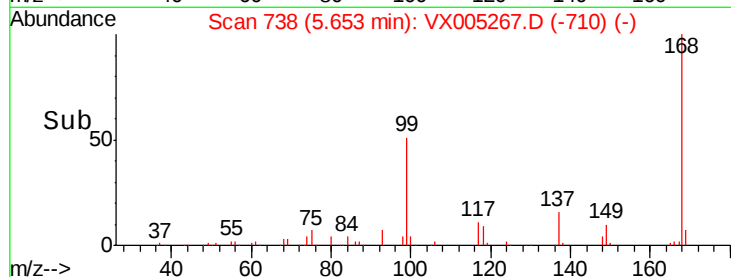
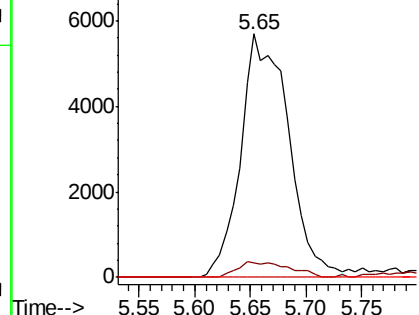
#38
Carbon Tetrachloride
Concen: 5.210 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.13 min
Lab File: VX005267.D
Acq: 11 Oct 2018 21:20

Instrument :
MSVOA_X
ClientSampleId :
RE-126D3-20181008

Tot Ion:117 Resp: 16939
Ion Ratio Lower Upper
117 100
119 6.1 75.2 112.8#
121 0.0 22.5 33.7#

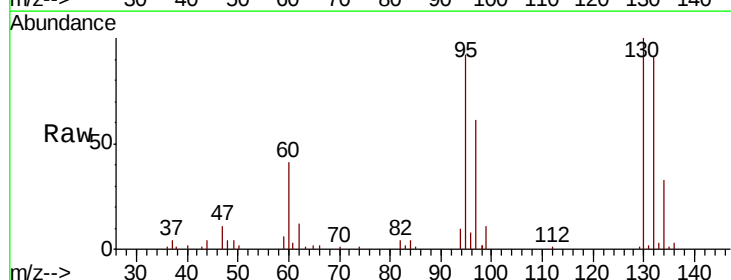


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

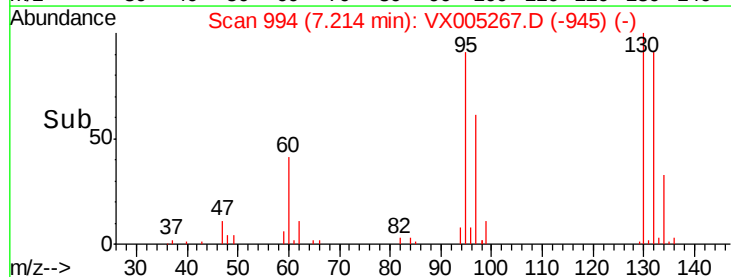
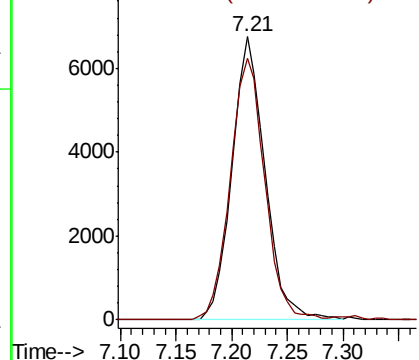


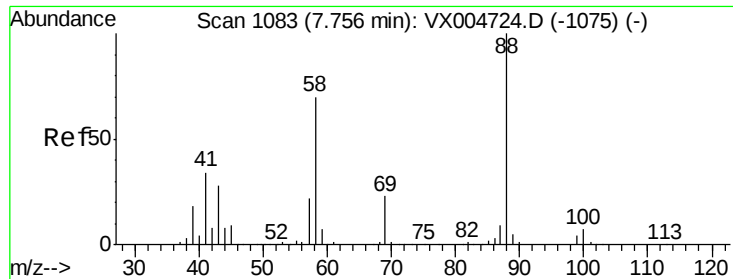
#44
Trichloroethene
Concen: 5.836 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX005267.D
Acq: 11 Oct 2018 21:20

Tgt Ion:130 Resp: 13892
Ion Ratio Lower Upper
130 100
95 92.5 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 4.235 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

RE-126D3-20181008

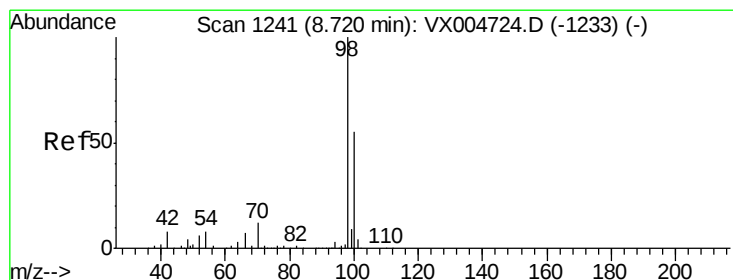
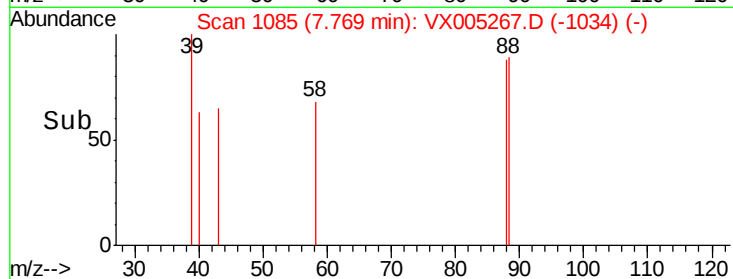
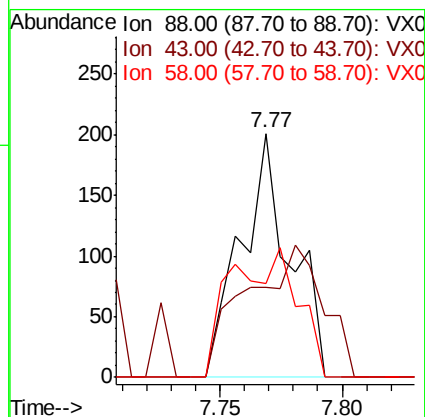
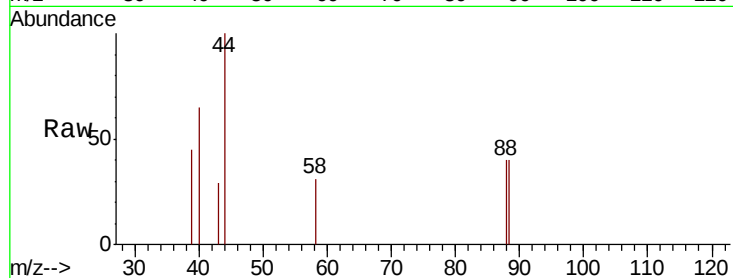
Tot Ion: 88 Resp: 283

Ion Ratio Lower Upper

88 100

43 83.7 25.1 37.7#

58 71.4 56.2 84.2



#50

Toluene-d8

Concen: 51.056 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX005267.D

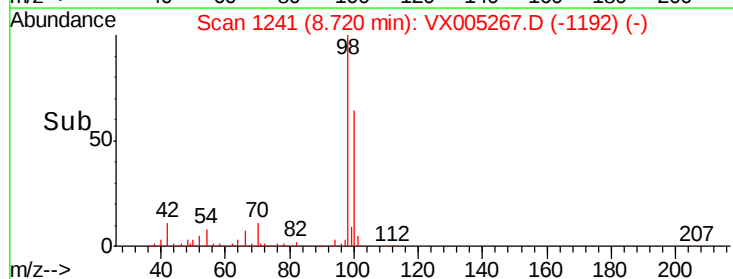
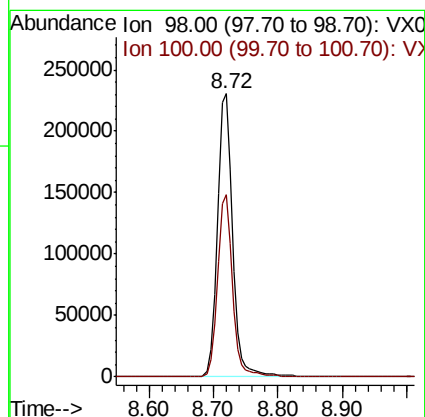
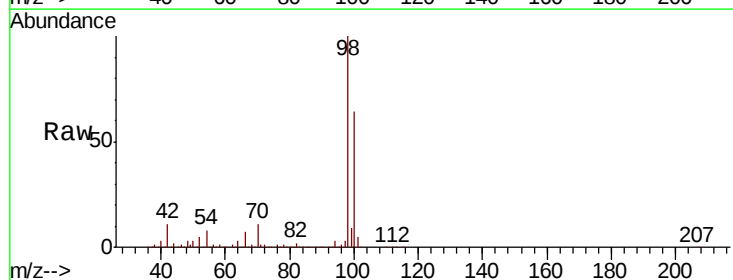
Acq: 11 Oct 2018 21:20

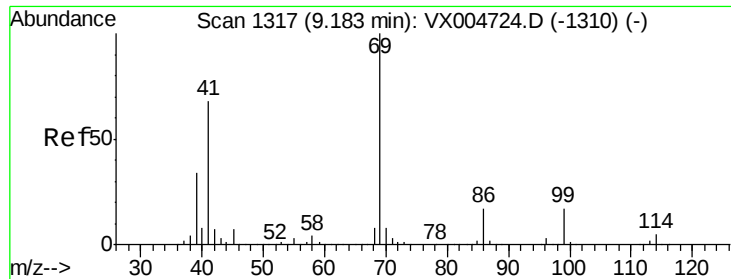
Tgt Ion: 98 Resp: 384786

Ion Ratio Lower Upper

98 100

100 63.5 51.9 77.9





#56

Ethyl methacrylate

Concen: 2.868 ug/l

RT: 9.15 min Scan# 1311

Delta R.T. -0.04 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

RE-126D3-20181008

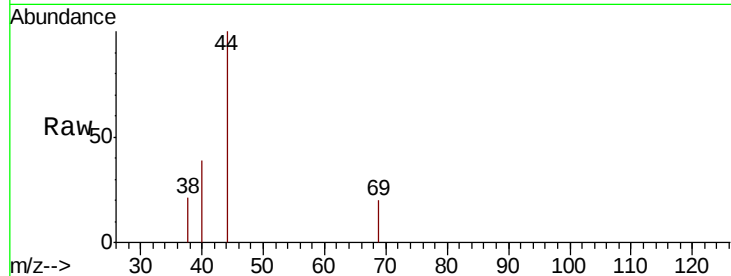
Tot Ion: 69 Resp: 22

Ion Ratio Lower Upper

69 100

41 0.0 56.9 85.3#

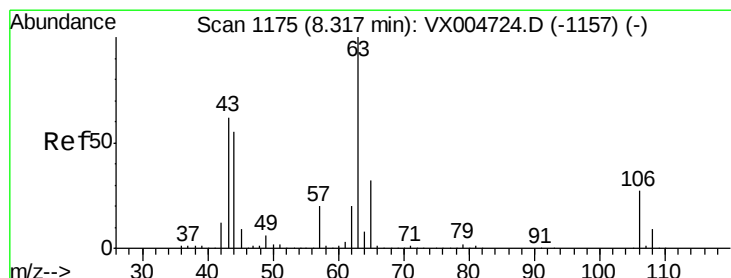
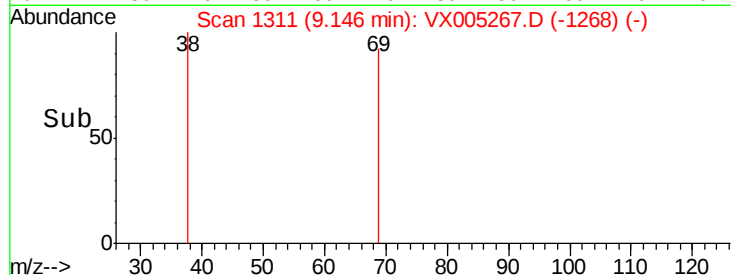
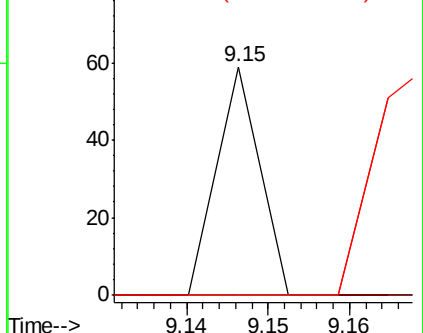
39 0.0 28.4 42.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 14.263 ug/l

RT: 8.32 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VX005267.D

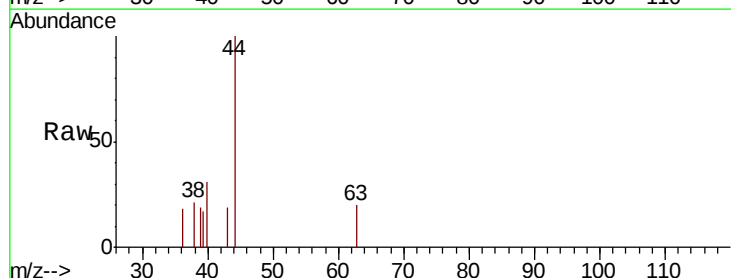
Acq: 11 Oct 2018 21:20

Tgt Ion: 63 Resp: 44

Ion Ratio Lower Upper

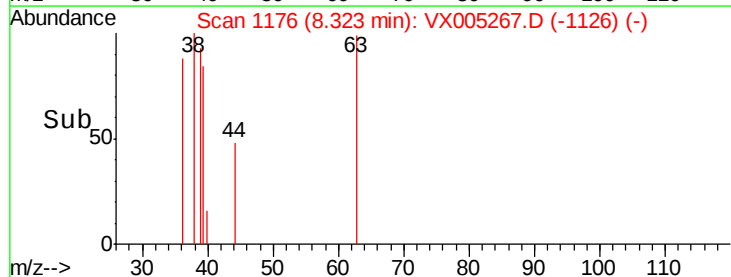
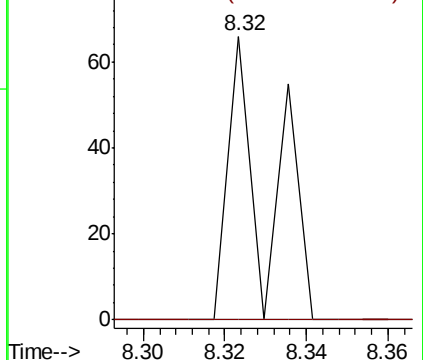
63 100

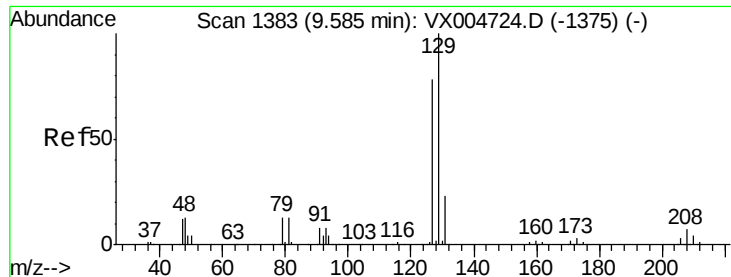
106 0.0 21.0 31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

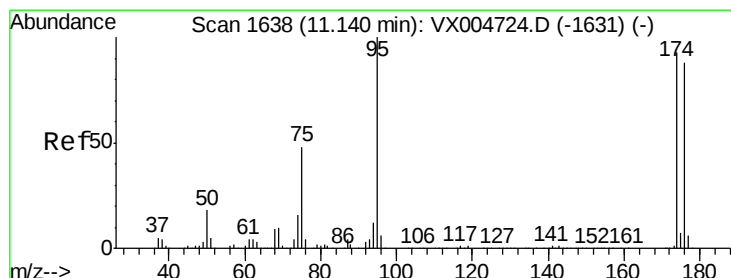
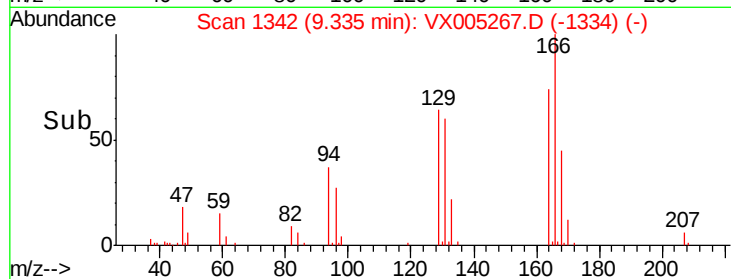
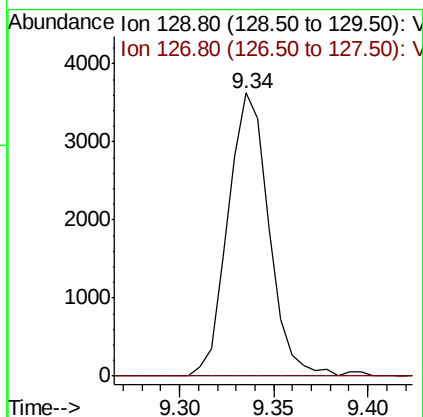
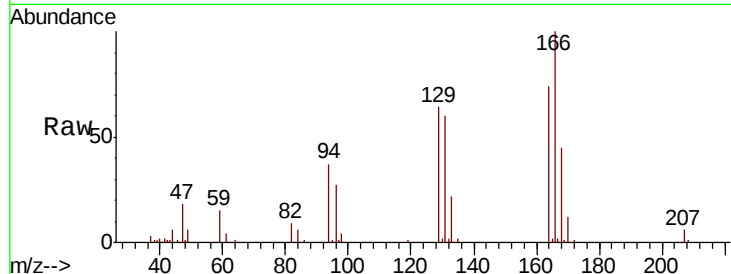




#60
 Dibromochloromethane
 Concen: 2.341 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.25 min
 Lab File: VX005267.D
 Acq: 11 Oct 2018 21:20

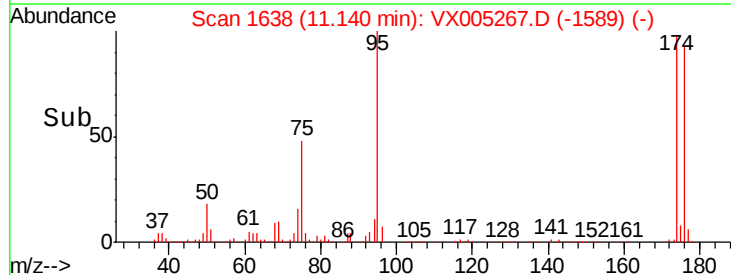
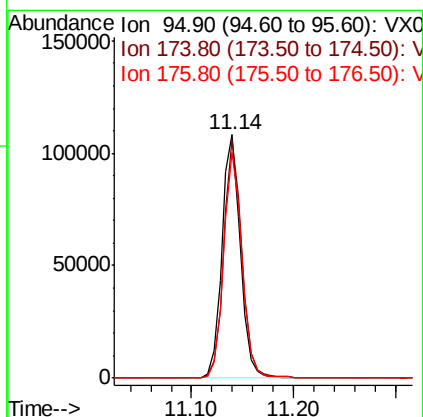
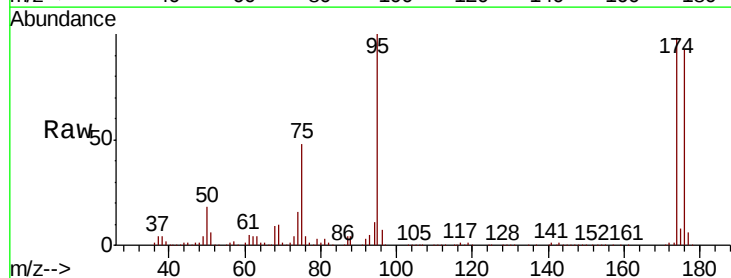
Instrument :
 MSVOA_X
 ClientSampleId :
 RE-126D3-20181008

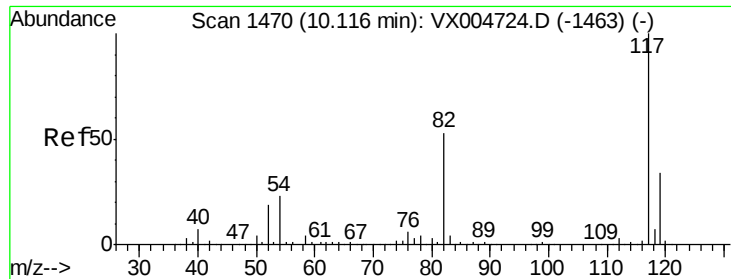
Tot Ion:129 Resp: 5456
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.2#



#62
 4-Bromofluorobenzene
 Concen: 50.244 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VX005267.D
 Acq: 11 Oct 2018 21:20

Tgt Ion: 95 Resp: 136418
 Ion Ratio Lower Upper
 95 100
 174 95.9 0.0 185.0
 176 91.8 0.0 180.2

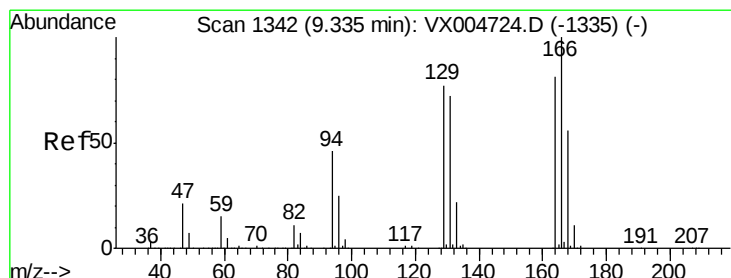
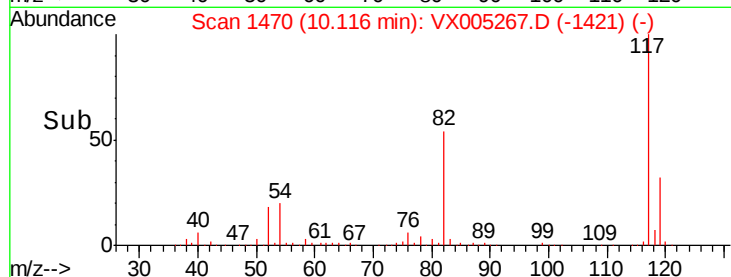
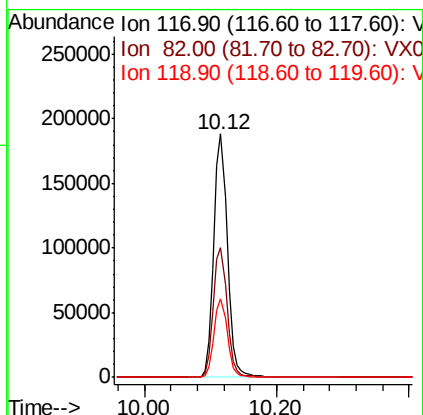
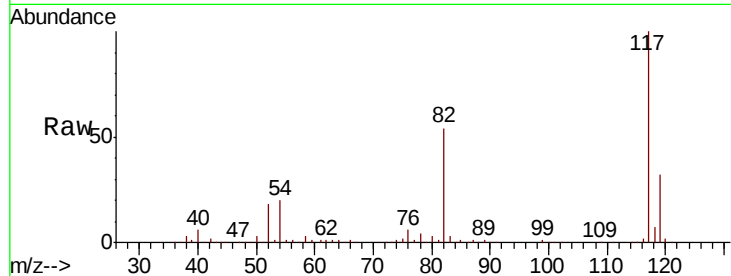




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005267.D
Acq: 11 Oct 2018 21:20

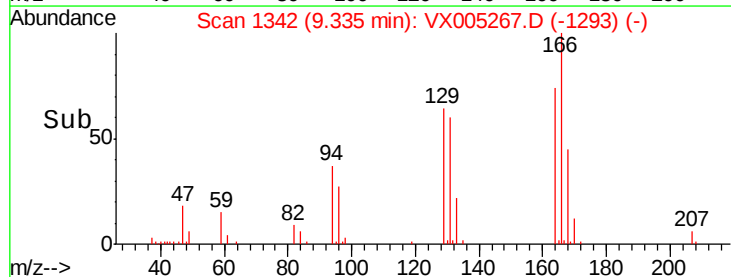
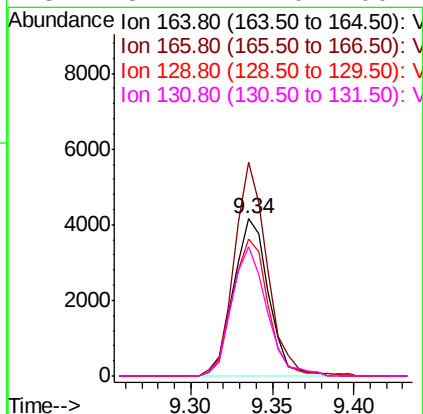
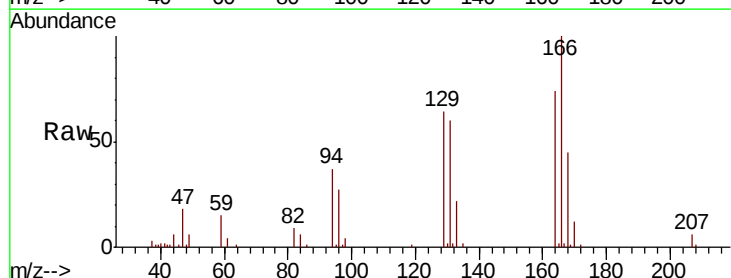
Instrument :
MSVOA_X
ClientSampleId :
RE-126D3-20181008

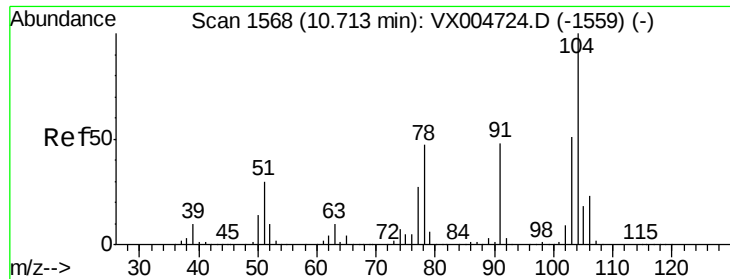
Tot Ion:117 Resp: 266616
Ion Ratio Lower Upper
117 100
82 53.5 42.2 63.4
119 32.2 27.4 41.0



#64
Tetrachloroethene
Concen: 2.367 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX005267.D
Acq: 11 Oct 2018 21:20

Tgt Ion:164 Resp: 6211
Ion Ratio Lower Upper
164 100
166 135.8 98.4 147.6
129 87.2 76.1 114.1
131 82.2 71.0 106.4





#70

Stvrene

Concen: 2.145 ug/l

RT: 10.73 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

RE-126D3-20181008

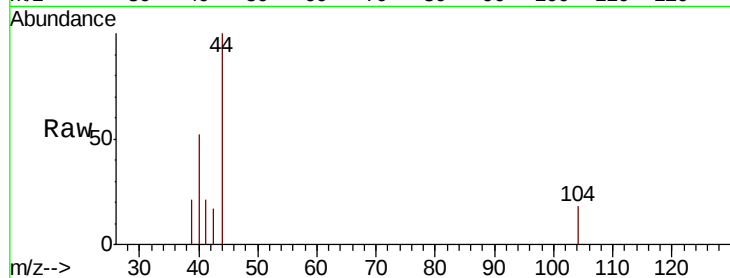
Tot Ion:104 Resp: 38

Ion Ratio Lower Upper

104 100

78 0.0 40.0 60.0#

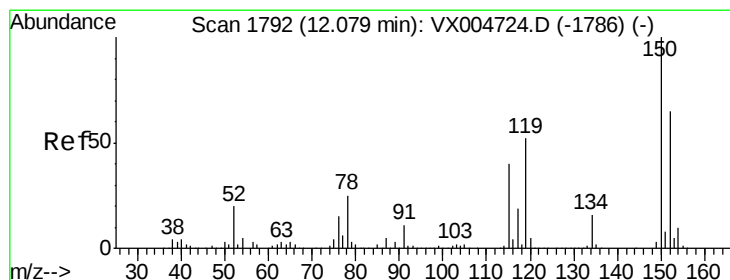
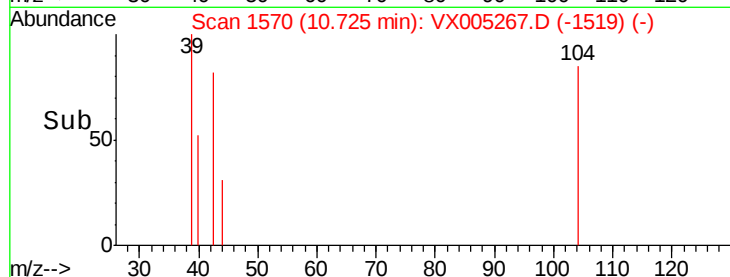
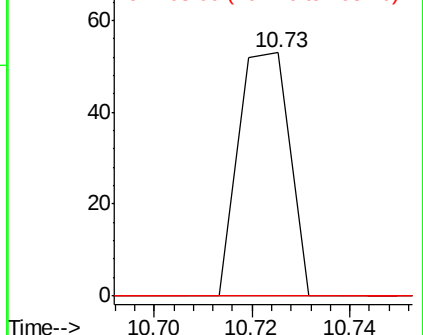
103 0.0 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

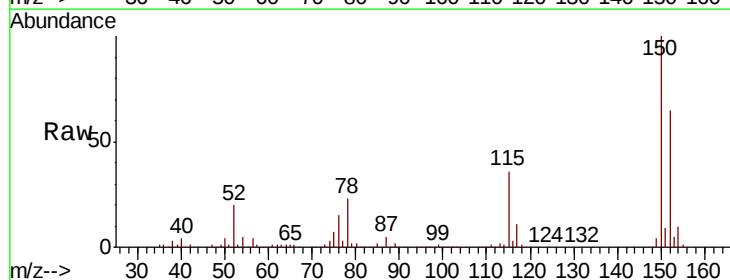
Tgt Ion:152 Resp: 147887

Ion Ratio Lower Upper

152 100

115 55.1 40.2 120.6

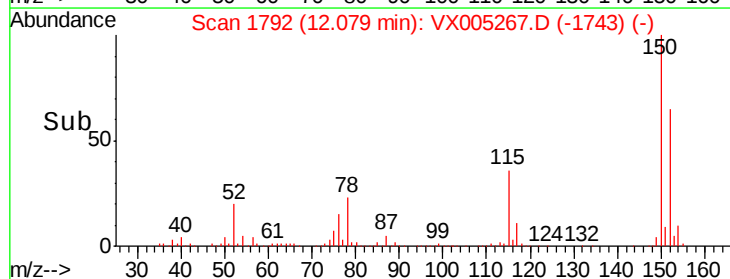
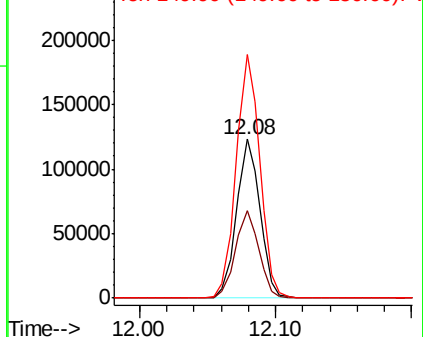
150 155.2 0.0 351.0

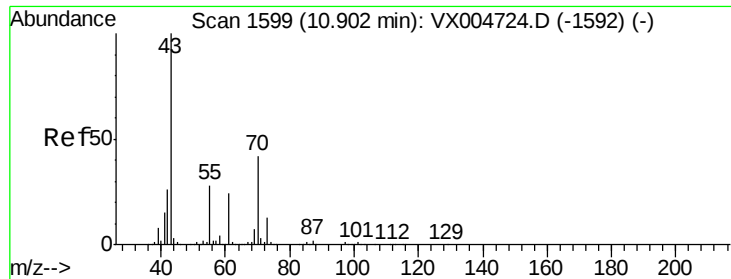


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.789 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

RE-126D3-20181008

Tot Ion: 43 Resp: 217

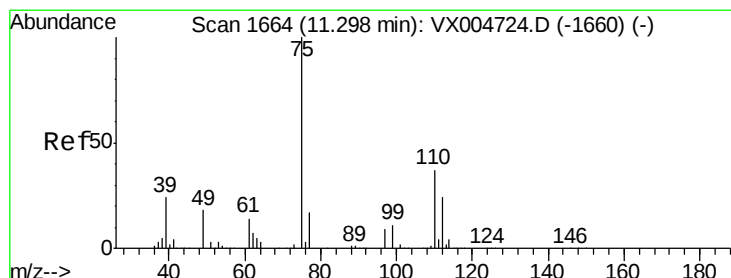
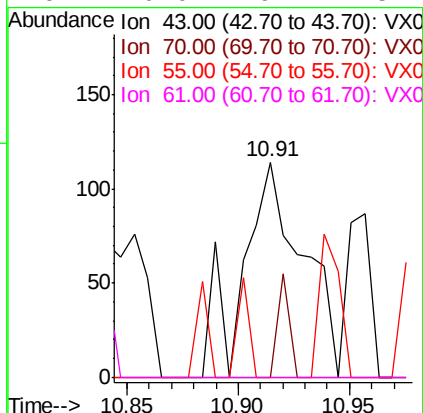
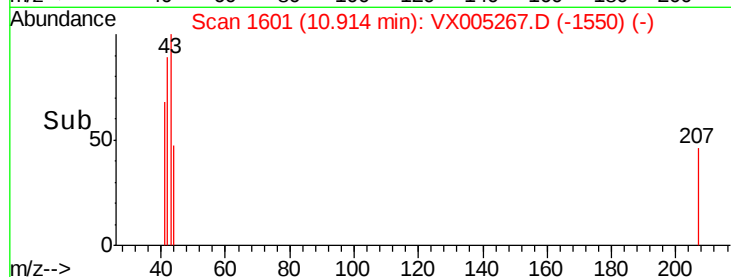
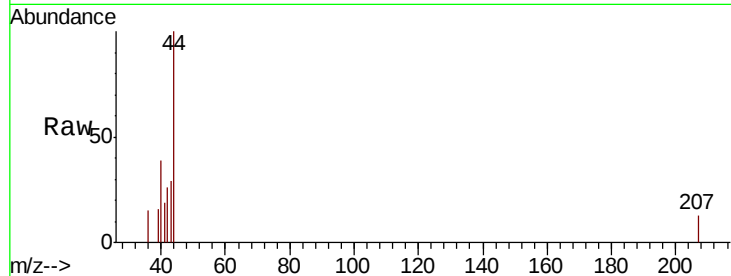
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 8.8 21.6 32.4#

61 0.0 19.1 28.7#



#76

1,2,3-Trichloropropane

Concen: 20.368 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005267.D

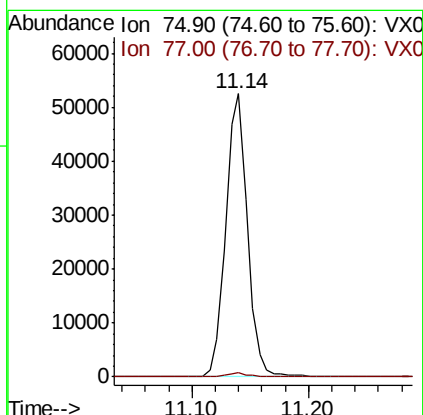
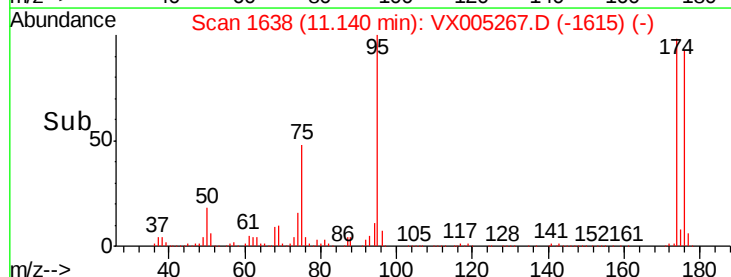
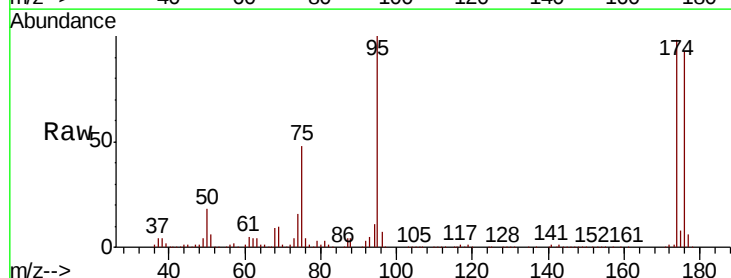
Acq: 11 Oct 2018 21:20

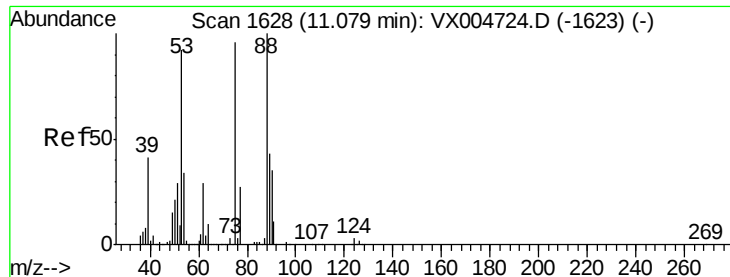
Tgt Ion: 75 Resp: 67513

Ion Ratio Lower Upper

75 100

77 1.3 21.4 64.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 55.330 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

RE-126D3-20181008

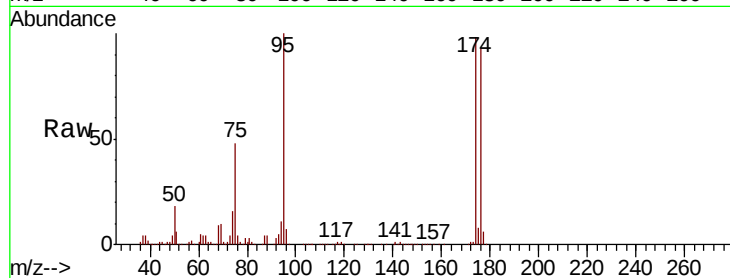
Tot Ion: 75 Resp: 67513

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

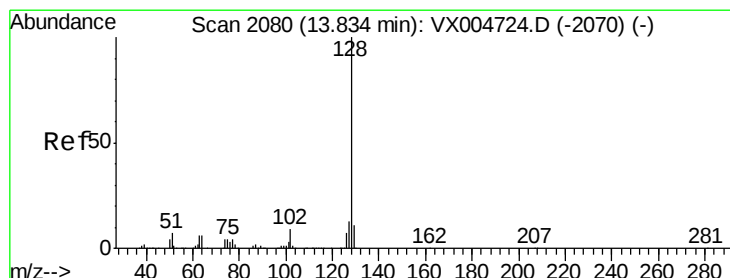
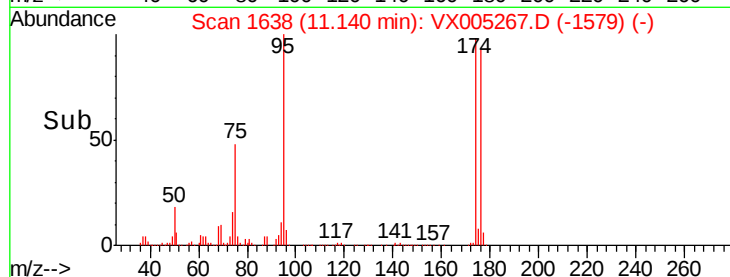
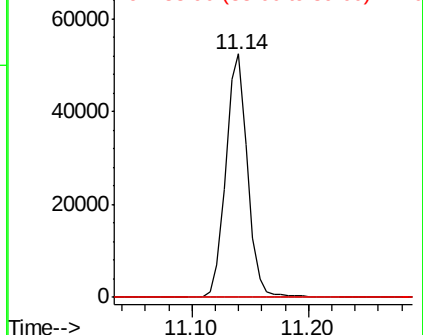
89 0.0 37.1 55.7#



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



#95

Naphthalene

Concen: 0.736 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005267.D

Acq: 11 Oct 2018 21:20

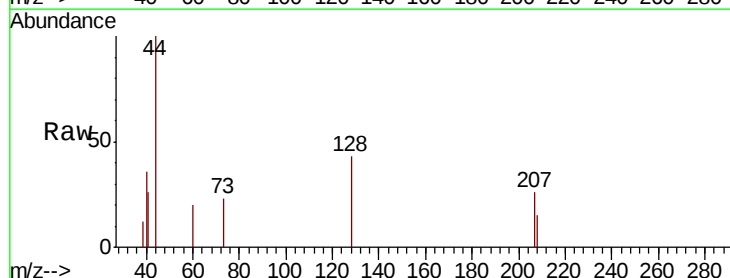
Tgt Ion: 128 Resp: 210

Ion Ratio Lower Upper

128 100

127 19.5 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

