

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110118\
 Data File : VX005724.D
 Acq On : 01 Nov 2018 12:57
 Operator : JC/MD
 Sample : J5199-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 01 14:35:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	142322	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.87	114	244320	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	197670	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	86459	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	103578	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
35) Dibromofluoromethane	5.51	113	78268	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
50) Toluene-d8	8.71	98	276478	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
62) 4-Bromofluorobenzene	11.14	95	90226	41.20	ug/l	0.00
Spiked Amount			Recovery	=	82.40%	

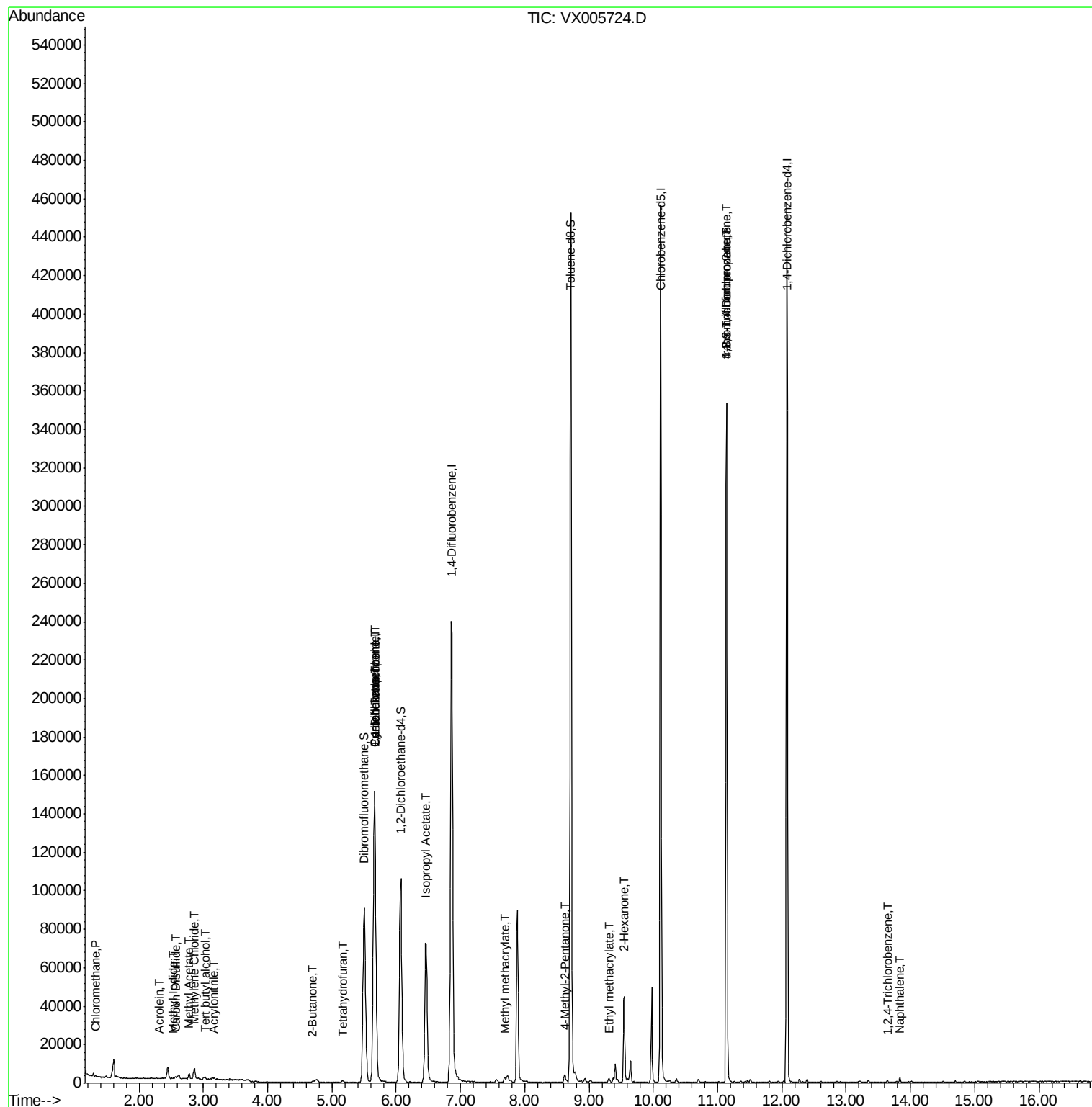
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	420	0.217	ug/l	94
6) Chloroethane	1.75	64	61	Below Cal	#	42
10) Methyl Iodide	2.52	142	374	2.175	ug/l #	76
11) Tert butyl alcohol	3.03	59	977	1.729	ug/l #	72
13) Acrolein	2.31	56	79	12.369	ug/l #	43
15) Acrylonitrile	3.16	53	356	0.286	ug/l #	80
16) Acetone	2.45	43	6224	Below Cal		95
17) Carbon Disulfide	2.57	76	1253	0.266	ug/l #	70
18) Methyl Acetate	2.78	43	3126	1.047	ug/l	96
20) Methylene Chloride	2.85	84	2256	1.257	ug/l	94
25) 2-Butanone	4.70	43	1432	0.816	ug/l	96
29) Tetrahydrofuran	5.17	42	749	0.699	ug/l #	80
31) Cyclohexane	5.67	56	3428	1.233	ug/l #	2
36) 1,1-Dichloropropene	5.67	75	11639	4.471	ug/l #	48
38) Carbon Tetrachloride	5.67	117	13544	5.759	ug/l #	16
43) Isopropyl Acetate	6.46	43	100333	20.816	ug/l	98
48) Methyl methacrylate	7.69	41	3441	1.475	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	1376	0.419	ug/l #	83
56) Ethyl methacrylate	9.32	69	47	2.485	ug/l #	1
59) 2-Hexanone	9.55	43	5355	2.002	ug/l #	61
76) 1,2,3-Trichloropropane	11.14	75	47807	22.201	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	47807	71.730	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.65	180	375	0.205	ug/l	87
95) Naphthalene	13.83	128	1451	0.241	ug/l	96

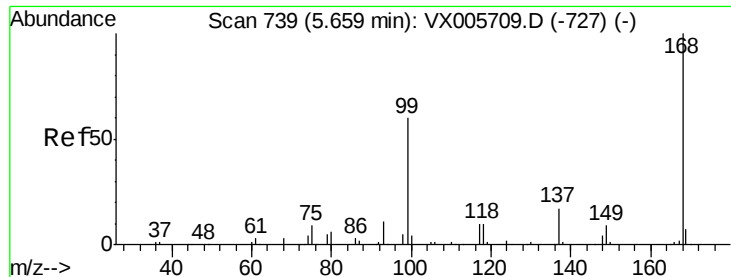
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
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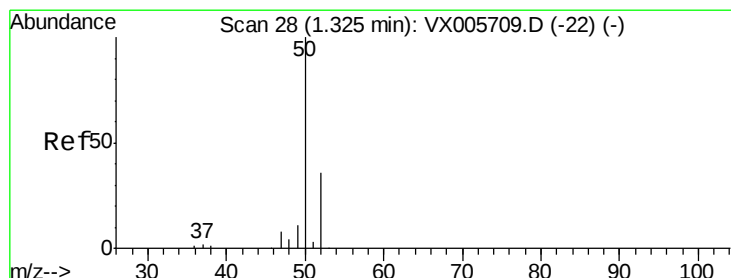
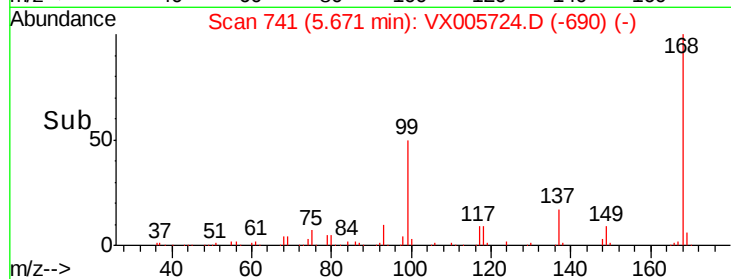
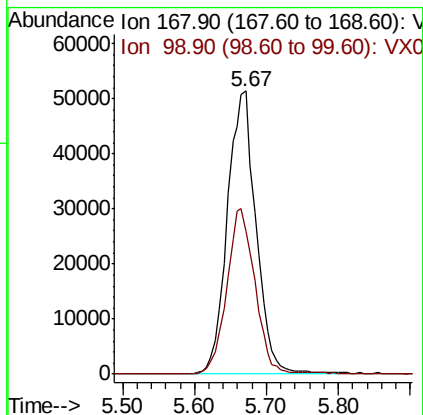
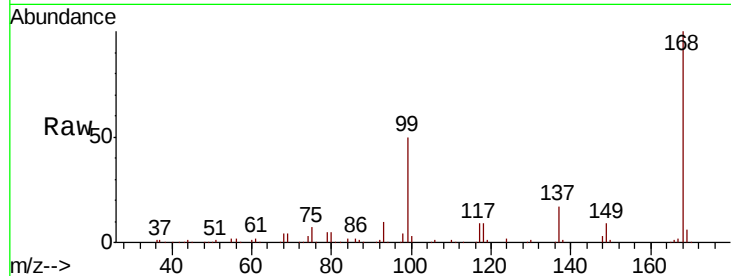


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. 0.01 min
 Lab File: VX005724.D
 Acq: 01 Nov 2018 12:57

Instrument :
 MSVOA_X
 ClientSampled :

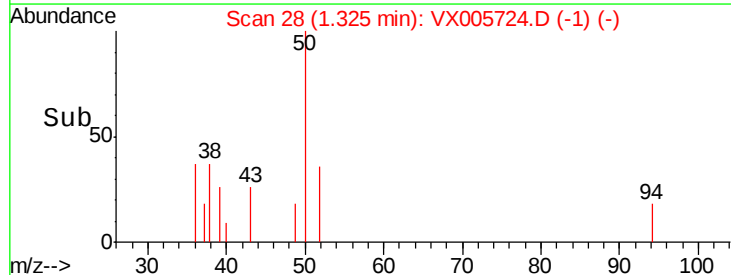
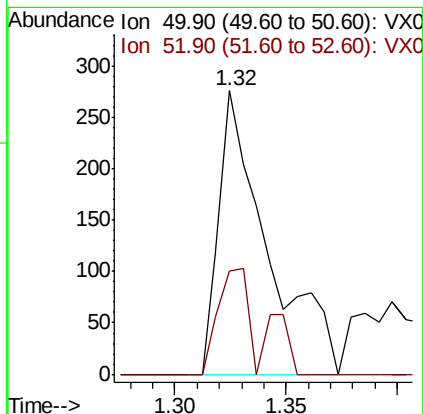
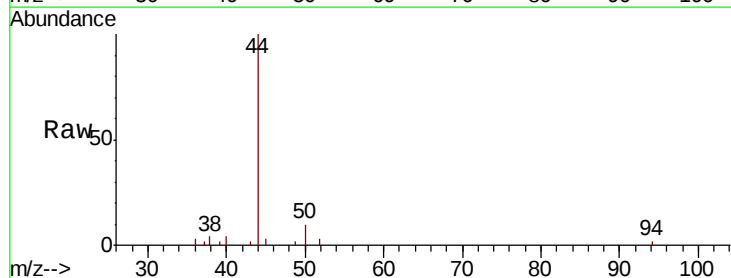
Tot Ion:168 Resp: 142322
 Ion Ratio Lower Upper
 168 100
 99 50.2 40.7 61.1

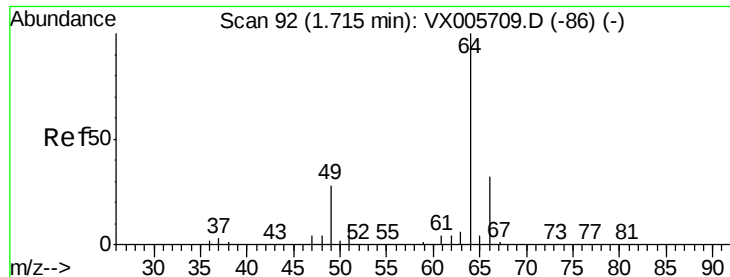


#3

Chloromethane
 Concen: 0.217 ug/l
 RT: 1.32 min Scan# 28
 Delta R.T. -0.00 min
 Lab File: VX005724.D
 Acq: 01 Nov 2018 12:57

Tgt Ion: 50 Resp: 420
 Ion Ratio Lower Upper
 50 100
 52 36.2 26.2 39.2





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

Instrument :

MSVOA_X

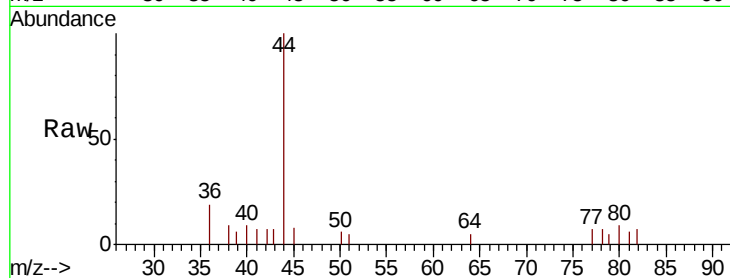
ClientSampled :

Tot Ion: 64 Resp: 61

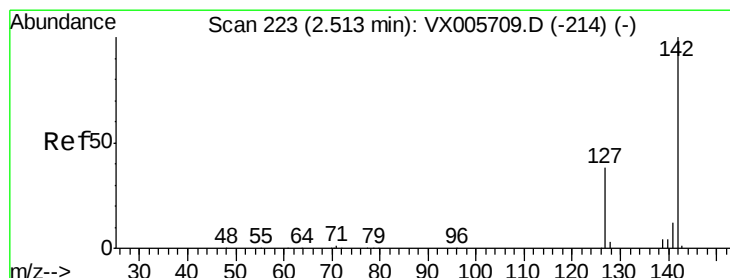
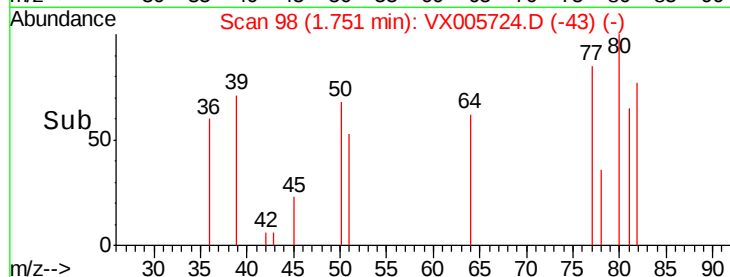
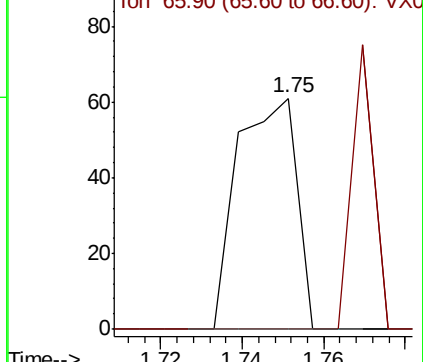
Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX005709.D (-86) (-)



#10

Methyl Iodide

Concen: 2.175 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

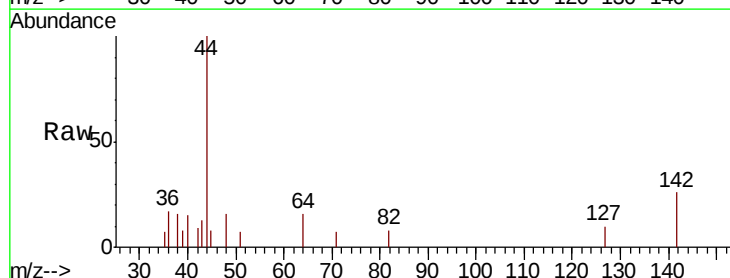
Tgt Ion: 142 Resp: 374

Ion Ratio Lower Upper

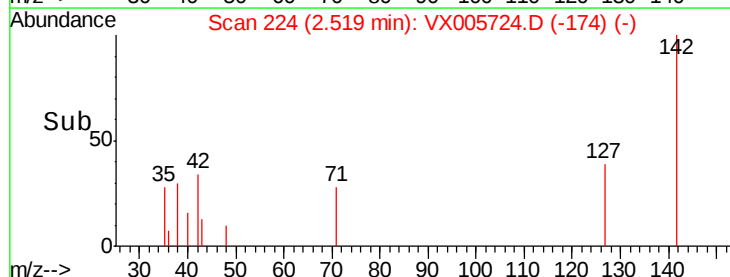
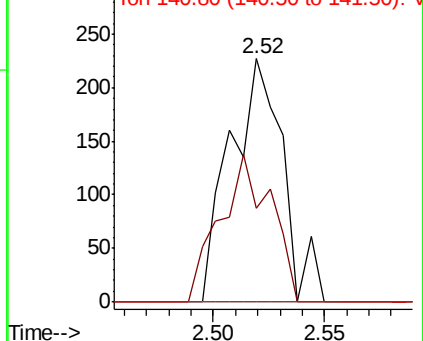
142 100

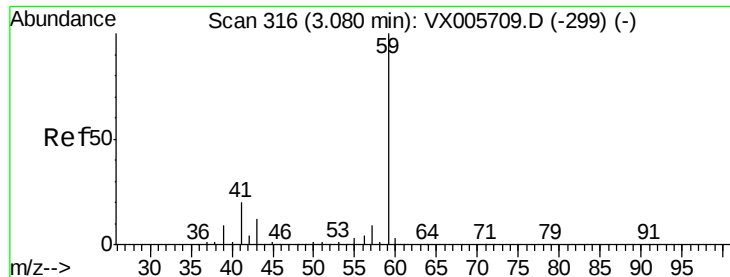
127 58.6 36.0 54.0#

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): VX005709.D (-214) (-)

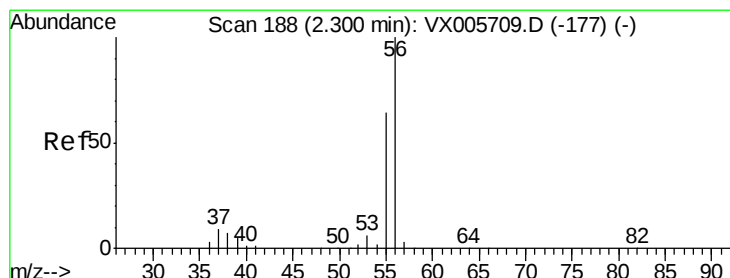
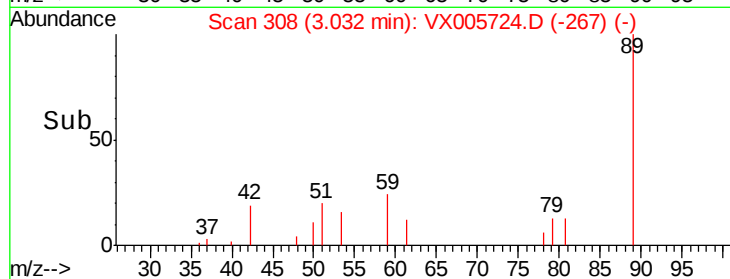
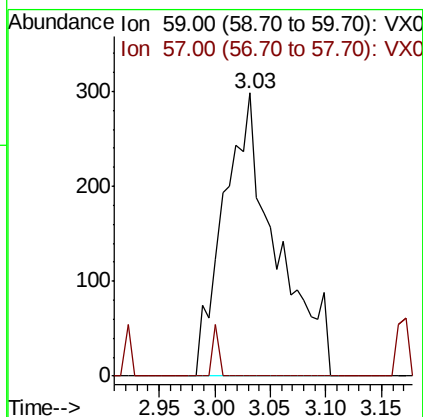
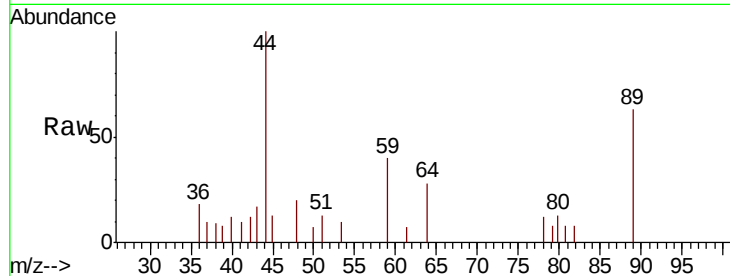




#11
Tert butyl alcohol
Concen: 1.729 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.05 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

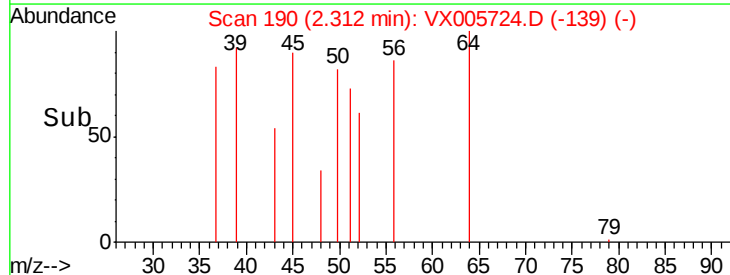
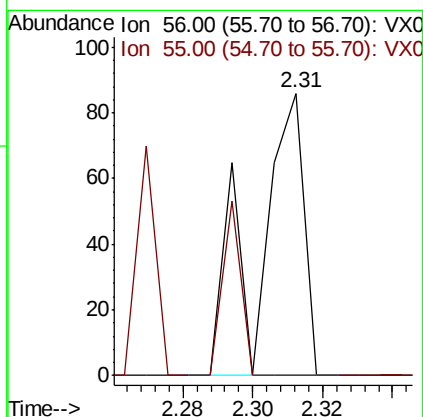
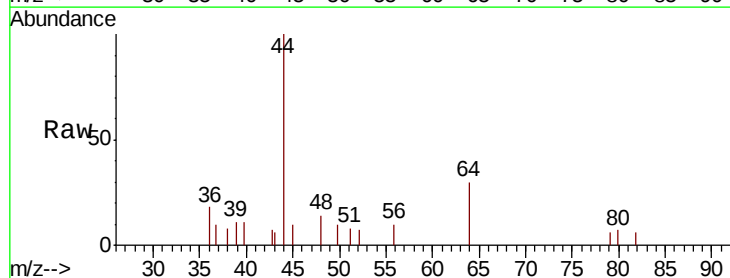
Instrument :
MSVOA_X
ClientSampleId :

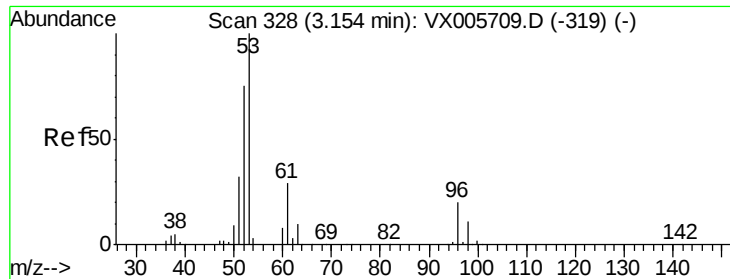
Tot Ion: 59 Resp: 977
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 12.369 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.01 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

Tgt Ion: 56 Resp: 79
Ion Ratio Lower Upper
56 100
55 24.1 57.3 85.9#

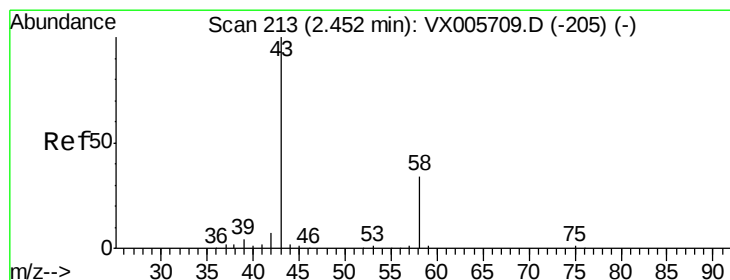
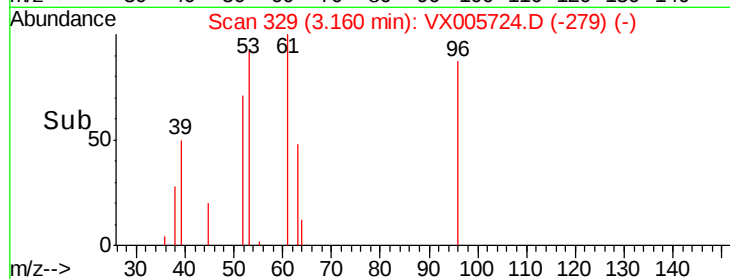
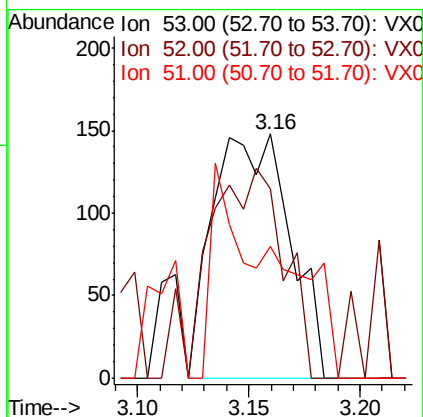
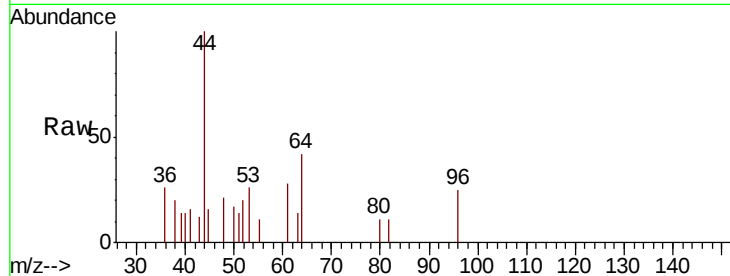




#15
Acrylonitrile
Concen: 0.286 ug/l
RT: 3.16 min Scan# 329
Delta R.T. 0.01 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

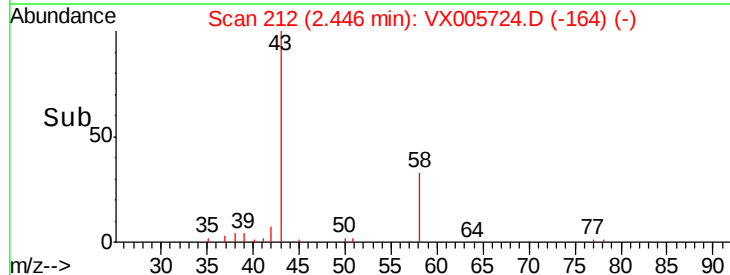
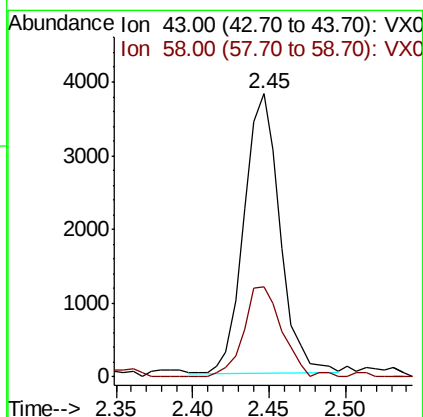
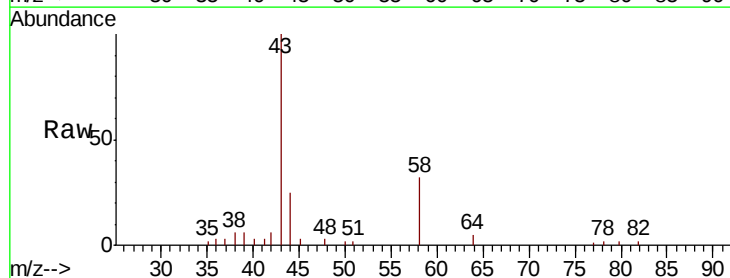
Instrument :
MSVOA_X
ClientSampleId :

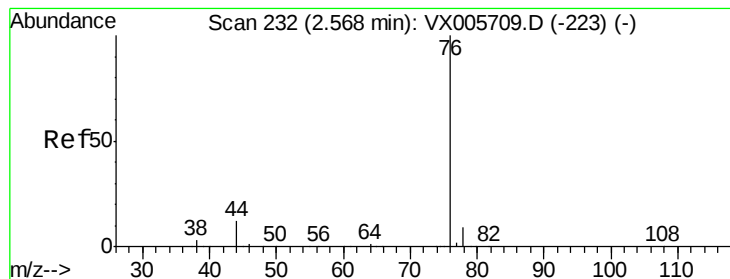
Tot Ion: 53 Resp: 356
Ion Ratio Lower Upper
53 100
52 85.4 66.6 99.8
51 0.0 28.4 42.6#



#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 212
Delta R.T. -0.01 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

Tgt Ion: 43 Resp: 6224
Ion Ratio Lower Upper
43 100
58 32.2 23.8 35.6





#17

Carbon Disulfide

Concen: 0.266 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

Instrument :

MSVOA_X

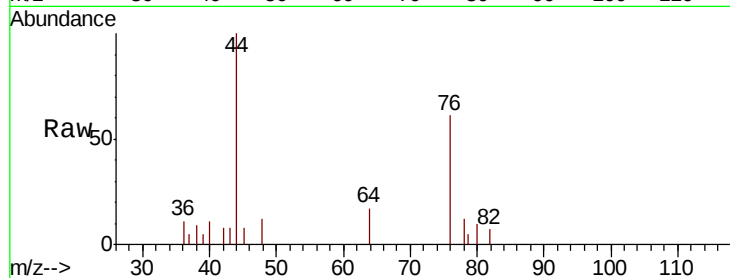
ClientSampleId :

Tot Ion: 76 Resp: 1253

Ion Ratio Lower Upper

76 100

78 20.1 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

600

400

200

0

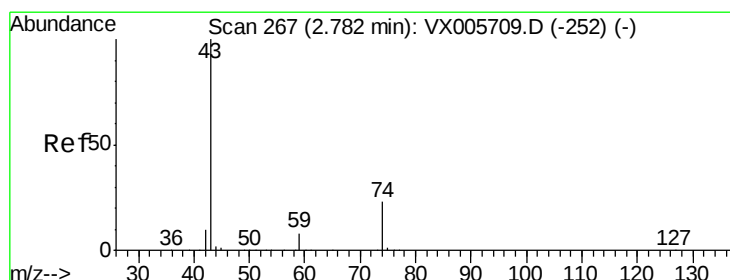
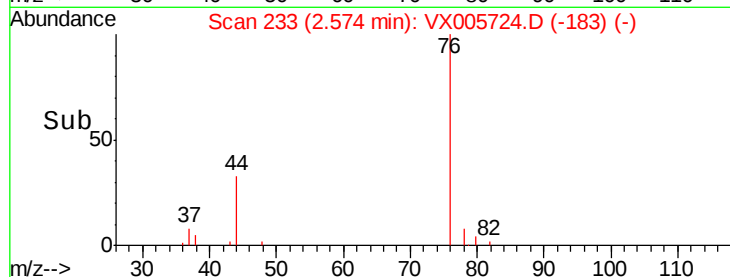
Time-->

2.50

2.55

2.60

2.65



#18

Methyl Acetate

Concen: 1.047 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005724.D

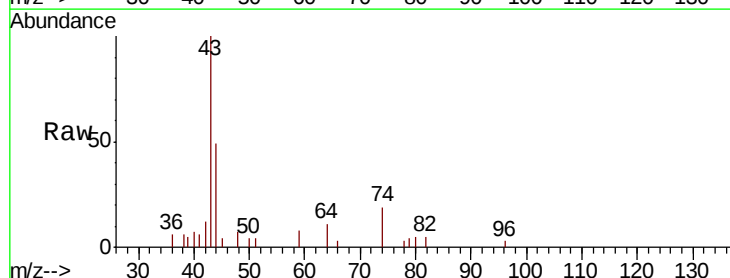
Acq: 01 Nov 2018 12:57

Tgt Ion: 43 Resp: 3126

Ion Ratio Lower Upper

43 100

74 22.8 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

2000

1500

1000

500

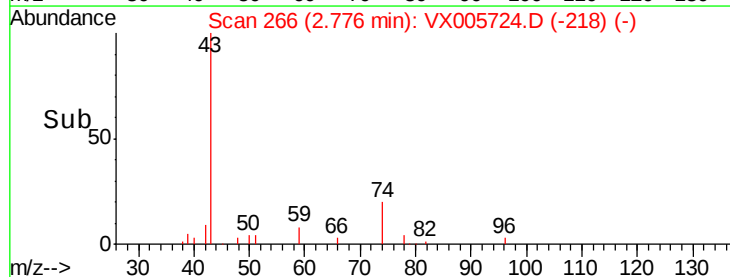
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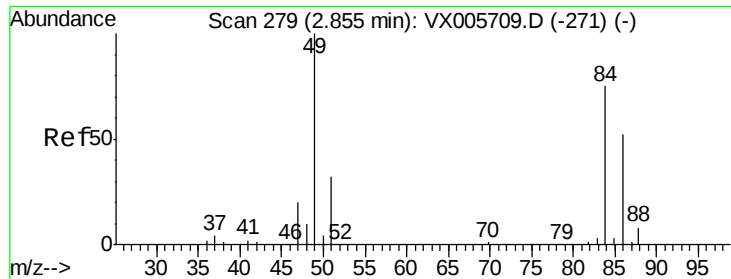
Time-->

2.70

2.75

2.80

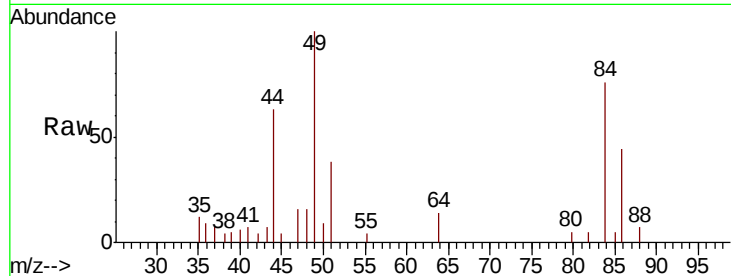




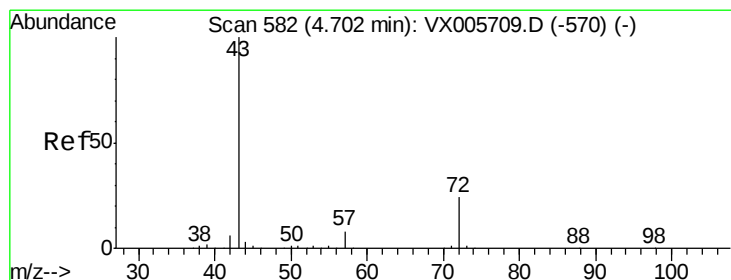
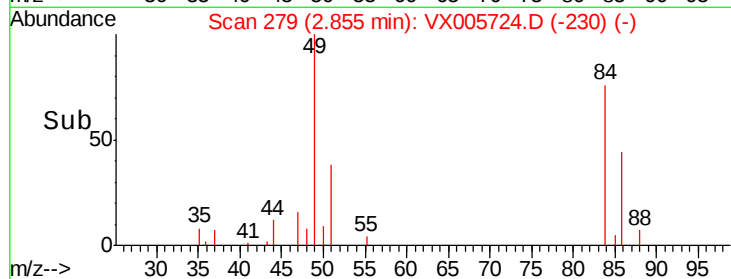
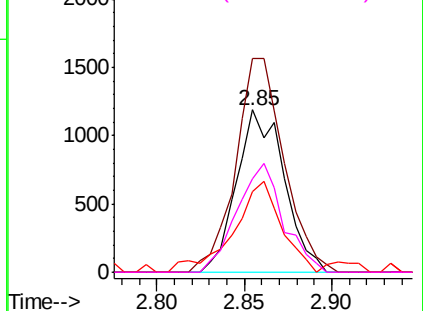
#20
Methvlene Chloride
Concen: 1.257 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 2256
Ion Ratio Lower Upper
84 100
49 131.7 109.5 164.3
51 43.6 33.3 49.9
86 57.9 52.7 79.1

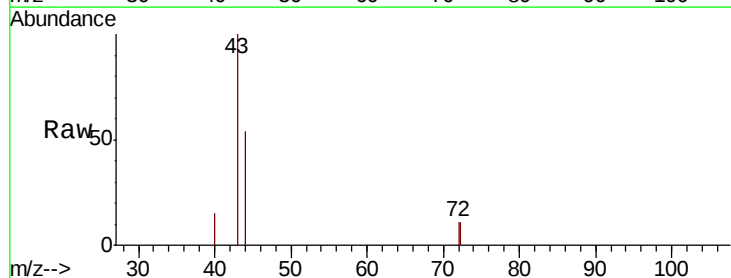


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

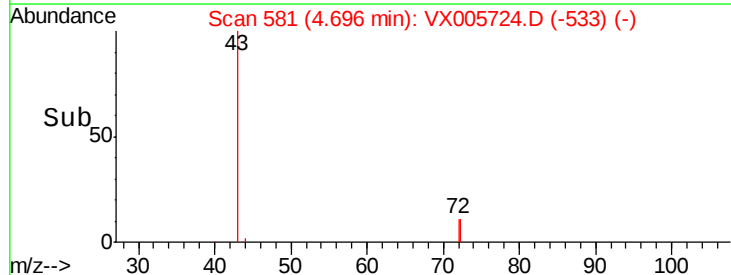
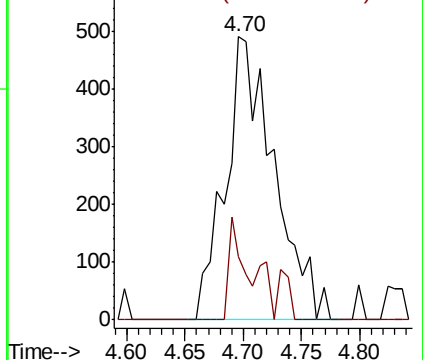


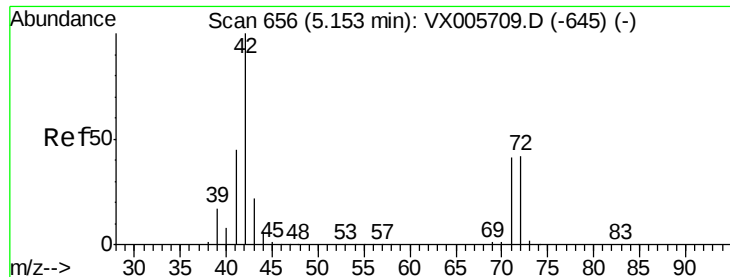
#25
2-Butanone
Concen: 0.816 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

Tgt Ion: 43 Resp: 1432
Ion Ratio Lower Upper
43 100
72 22.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.699 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

Instrument :

MSVOA_X

ClientSampled :

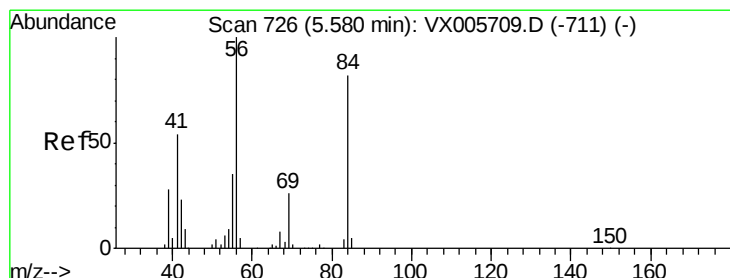
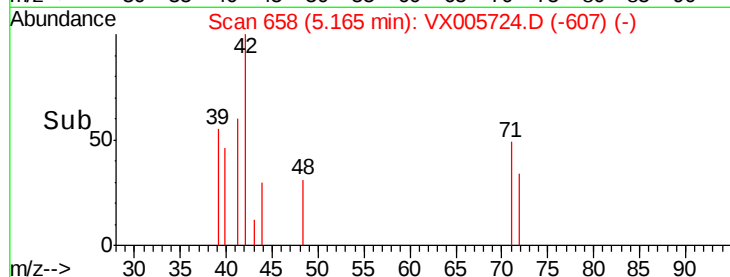
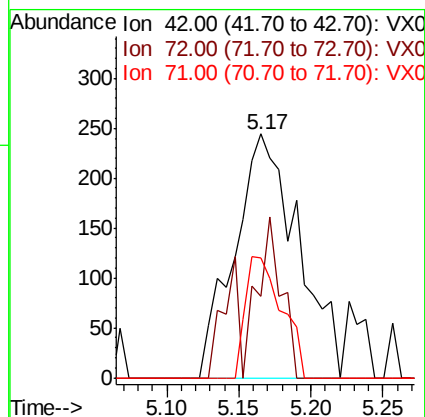
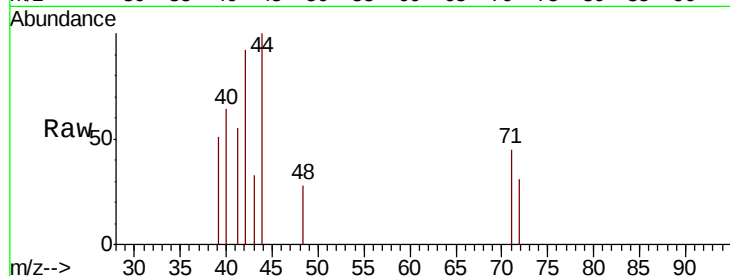
Tot Ion: 42 Resp: 749

Ion Ratio Lower Upper

42 100

72 24.6 32.0 48.0#

71 28.3 29.8 44.8#



#31

Cyclohexane

Concen: 1.233 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

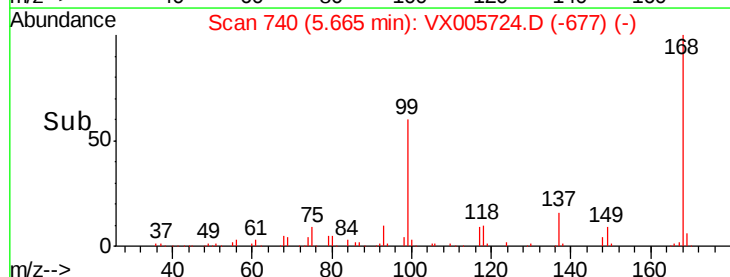
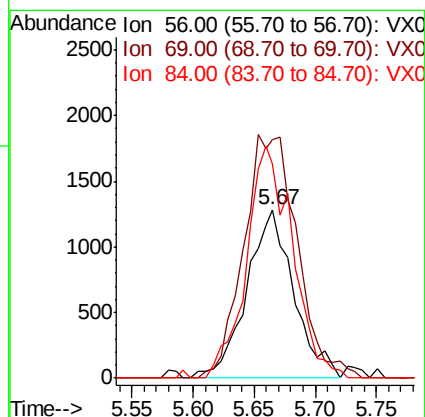
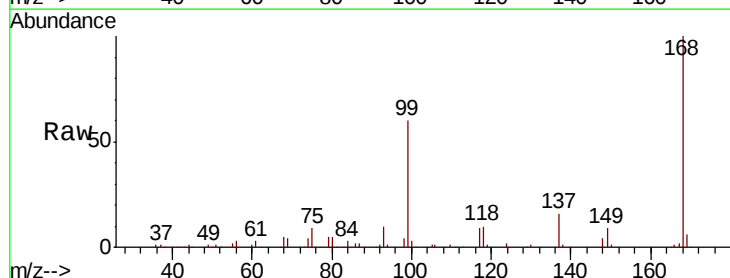
Tgt Ion: 56 Resp: 3428

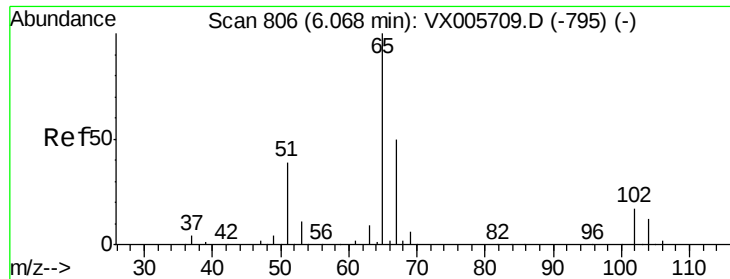
Ion Ratio Lower Upper

56 100

69 141.5 22.6 34.0#

84 127.2 62.7 94.1#





#33

1,2-Dichloroethane-d4

Concen: 49.779 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

Instrument :

MSVOA_X

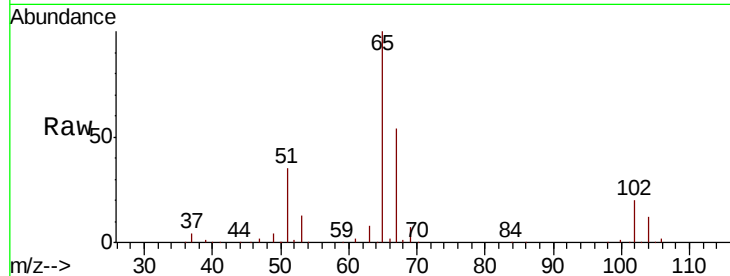
ClientSampleId :

Tot Ion: 65 Resp: 103578

Ion Ratio Lower Upper

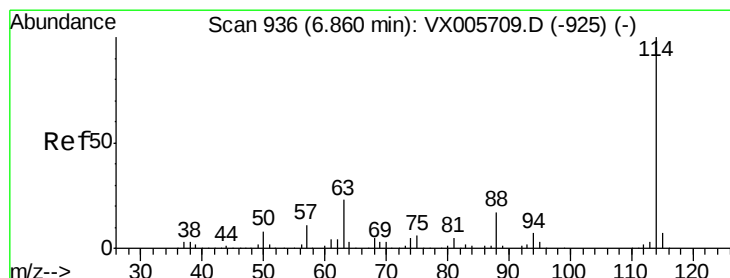
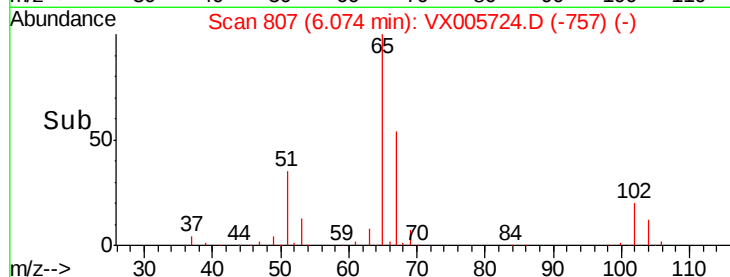
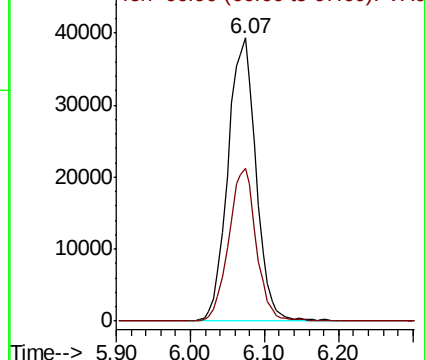
65 100

67 52.8 0.0 105.0



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: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

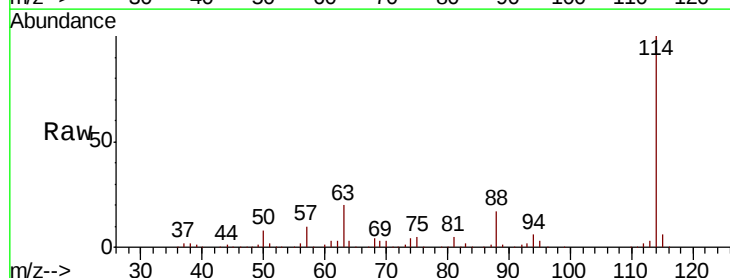
Tgt Ion: 114 Resp: 244320

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.8

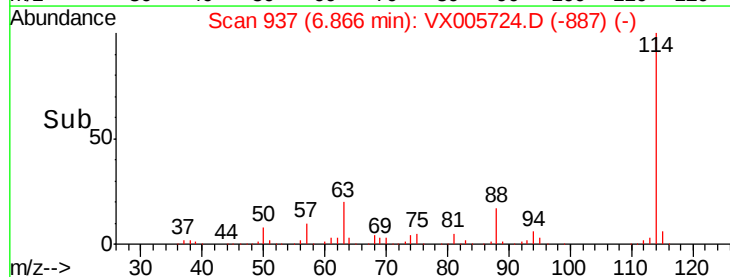
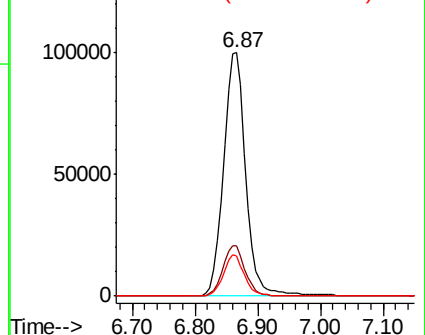
88 16.6 0.0 31.2

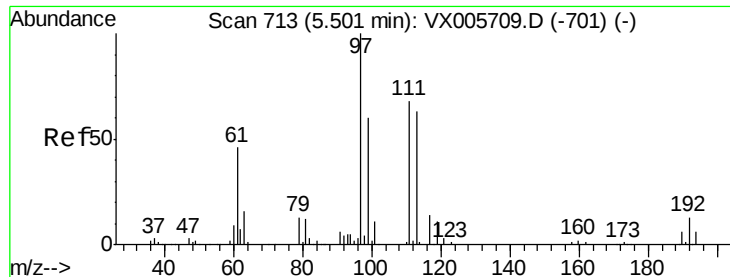


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

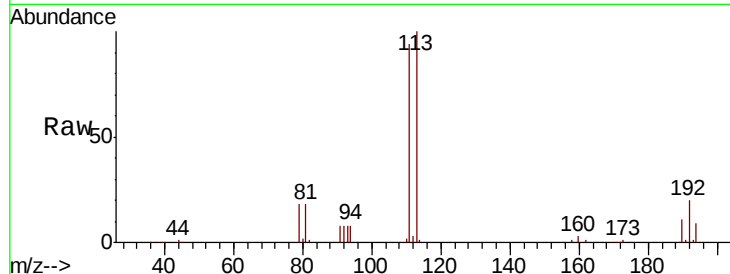




#35
 Dibromofluoromethane
 Concen: 46.266 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005724.D
 Acq: 01 Nov 2018 12:57

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	98.9	82.3	123.5
192	19.4	17.9	26.9

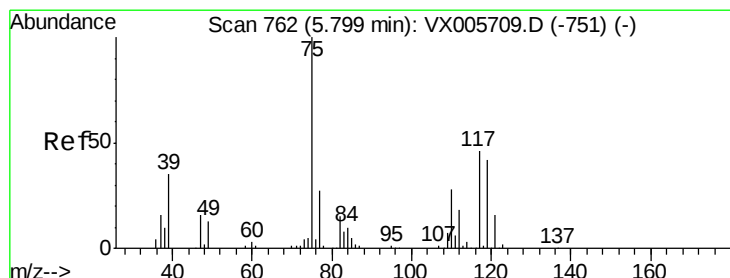
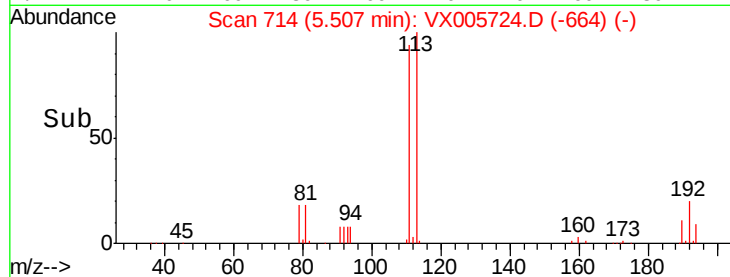
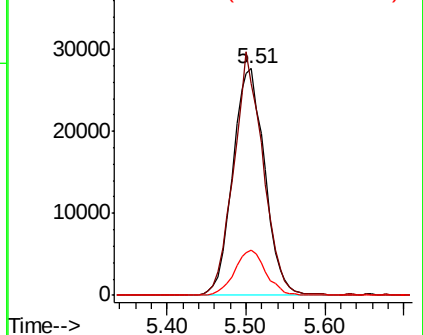


Abundance

Ion 112.80 (112.50 to 113.50): V

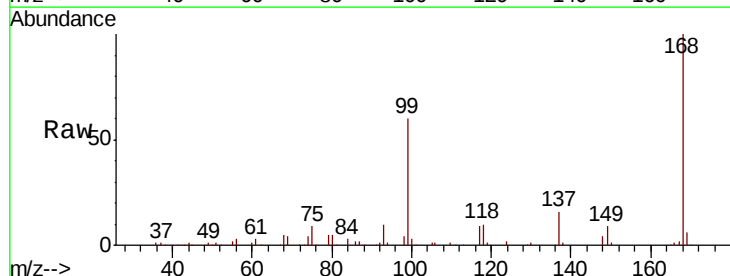
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.471 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005724.D
 Acq: 01 Nov 2018 12:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.4	52.2#
77	0.0	25.8	38.6#

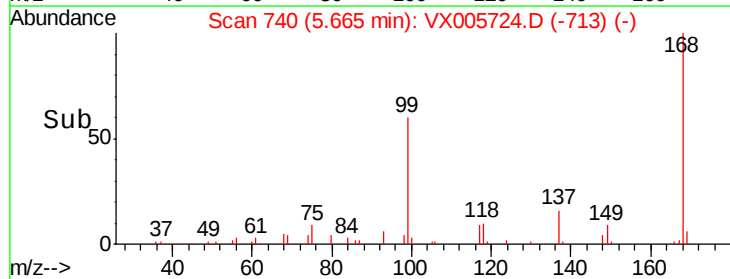
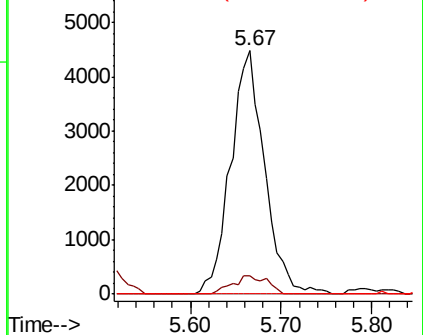


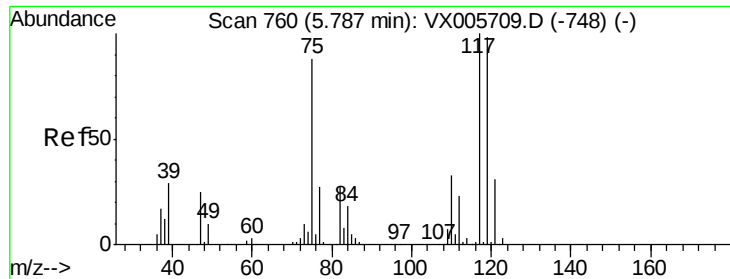
Abundance

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: 5.759 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

Instrument :

MSVOA_X

ClientSampleId :

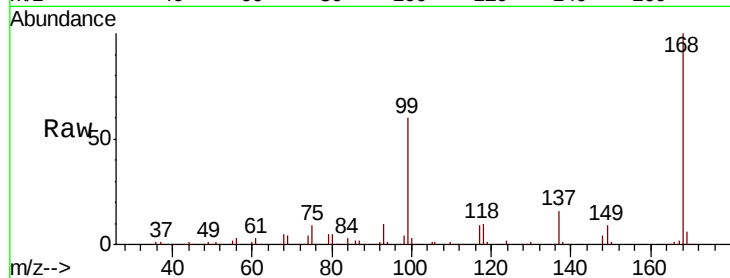
Tot Ion:117 Resp: 13544

Ion Ratio Lower Upper

117 100

119 5.8 78.1 117.1#

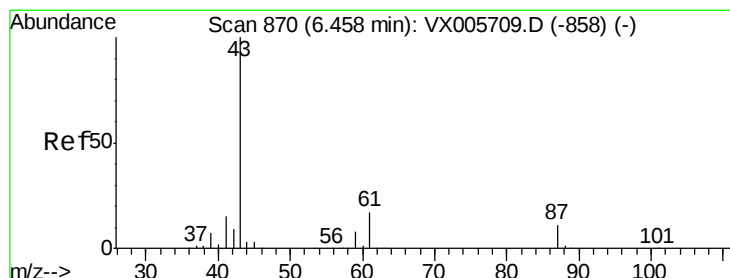
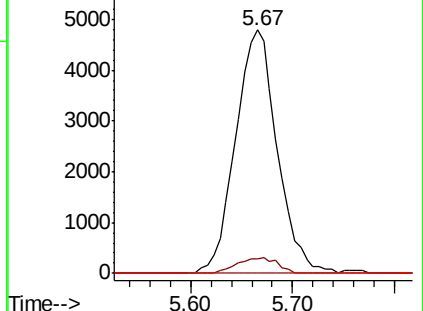
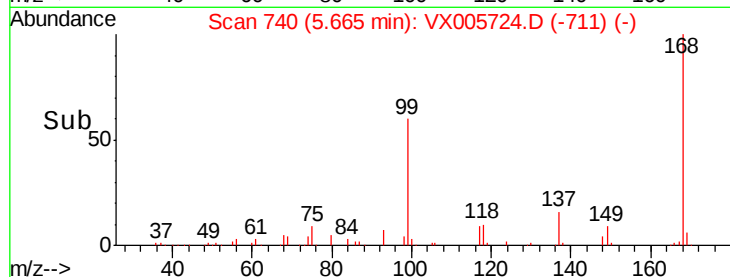
121 0.0 24.6 36.8#



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: 20.816 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

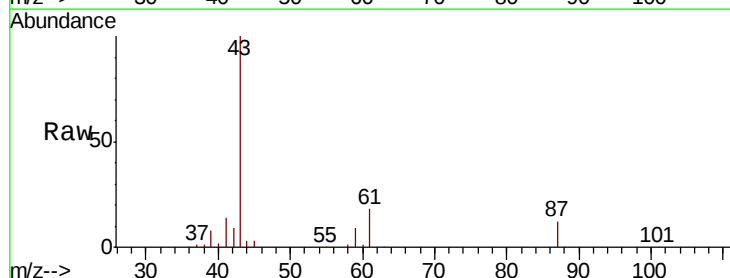
Tgt Ion: 43 Resp: 100333

Ion Ratio Lower Upper

43 100

61 19.7 14.6 22.0

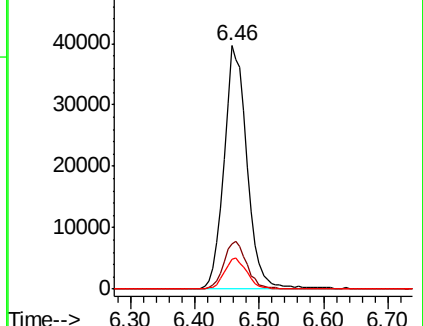
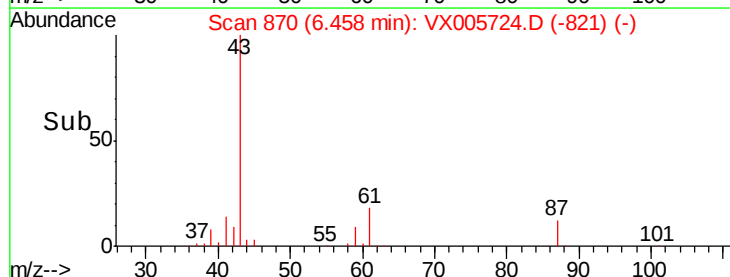
87 12.5 9.6 14.4

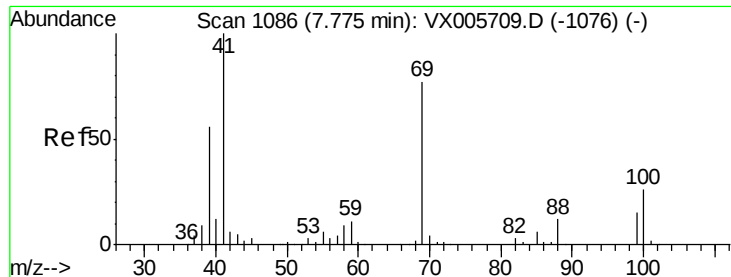


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 1.475 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

Instrument :
MSVOA_X
ClientSampleId :

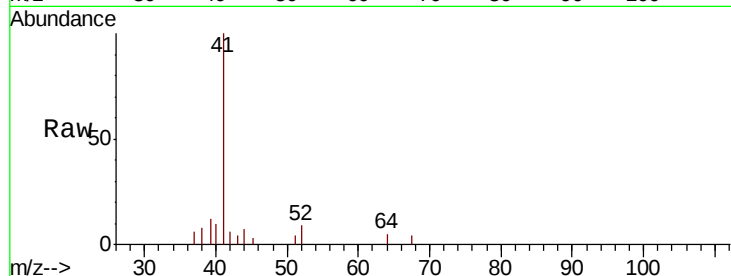
Tot Ion: 41 Resp: 3441

Ion Ratio Lower Upper

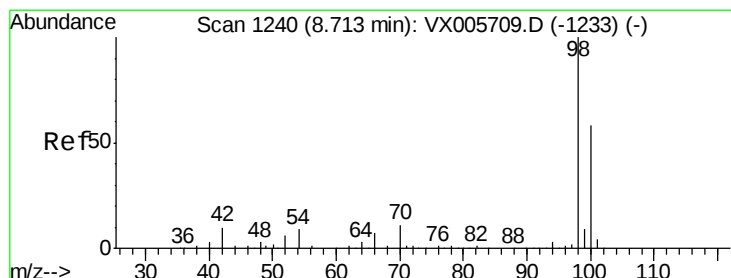
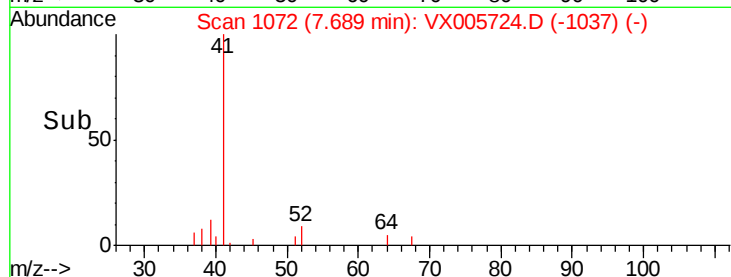
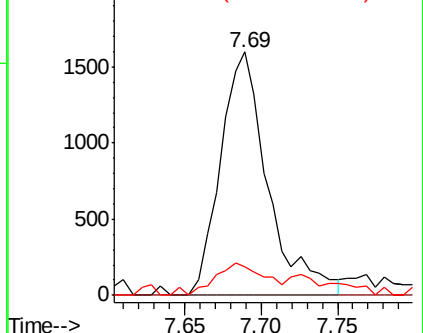
41 100

69 0.0 63.2 94.8#

39 14.3 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 46.598 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005724.D

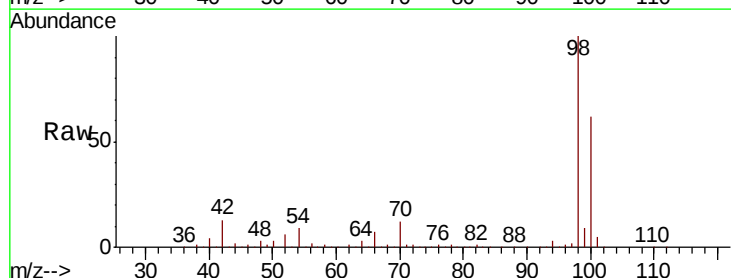
Acq: 01 Nov 2018 12:57

Tgt Ion: 98 Resp: 276478

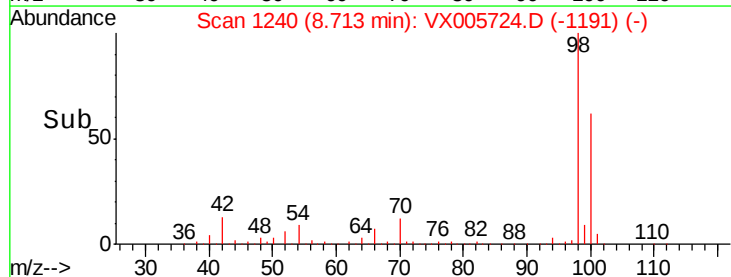
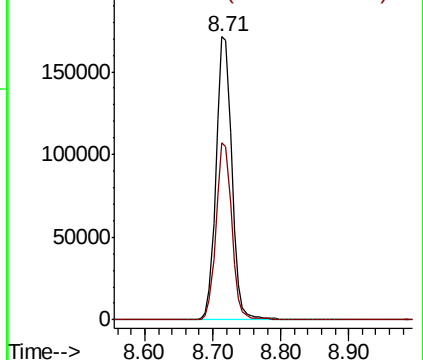
Ion Ratio Lower Upper

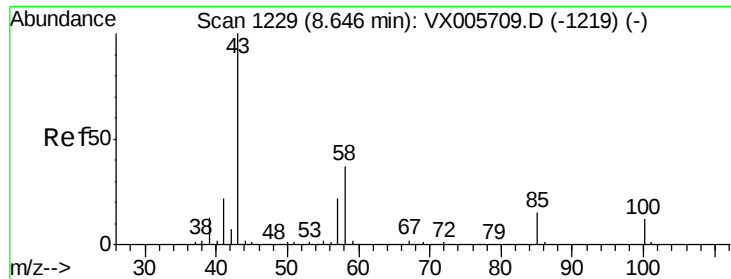
98 100

100 62.3 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.419 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

Instrument :

MSVOA_X

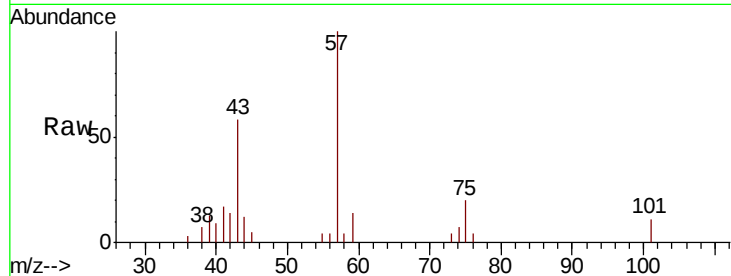
ClientSampleId :

Tot Ion: 43 Resp: 1376

Ion Ratio Lower Upper

43 100

58 27.1 29.7 44.5#



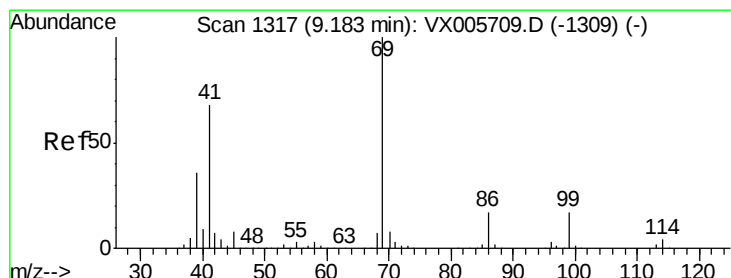
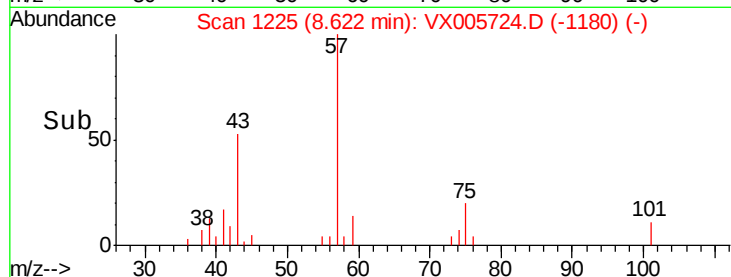
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

8.65

Time-->



#56

Ethyl methacrylate

Concen: 2.485 ug/l

RT: 9.32 min Scan# 1339

Delta R.T. 0.13 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

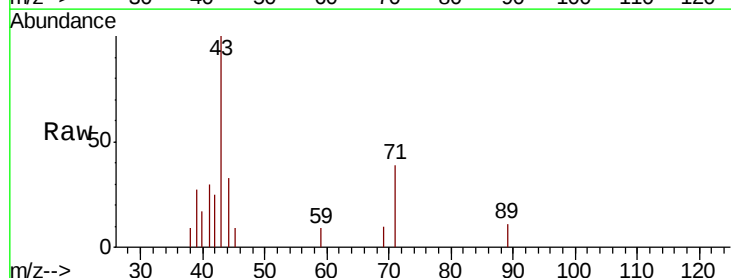
Tgt Ion: 69 Resp: 47

Ion Ratio Lower Upper

69 100

41 1223.4 57.0 85.6#

39 700.0 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VX0

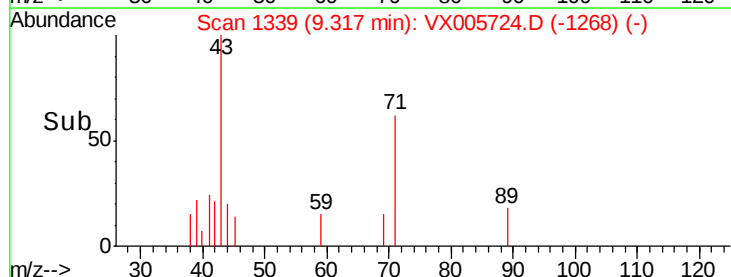
Ion 41.00 (40.70 to 41.70): VX0

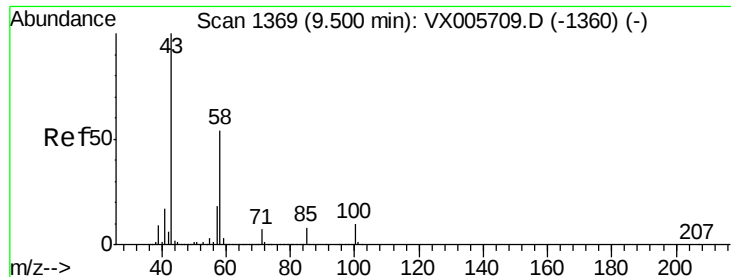
Ion 39.00 (38.70 to 39.70): VX0

9.32

9.34

Time-->

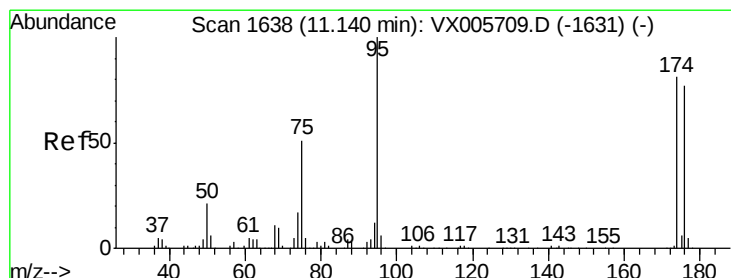
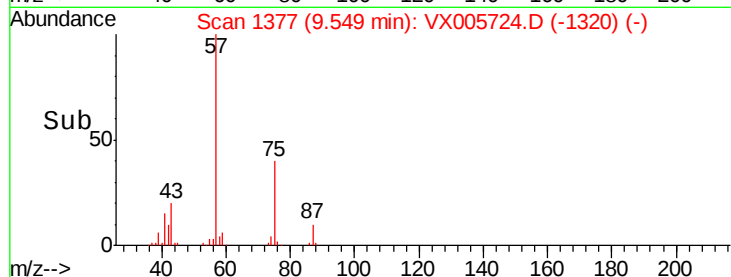
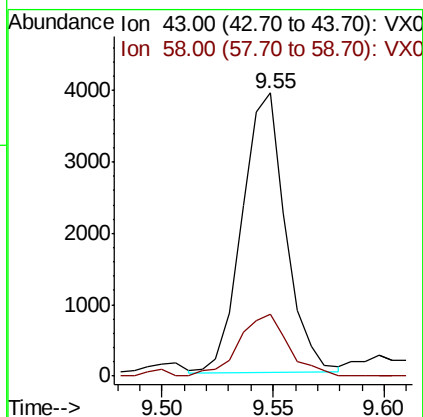
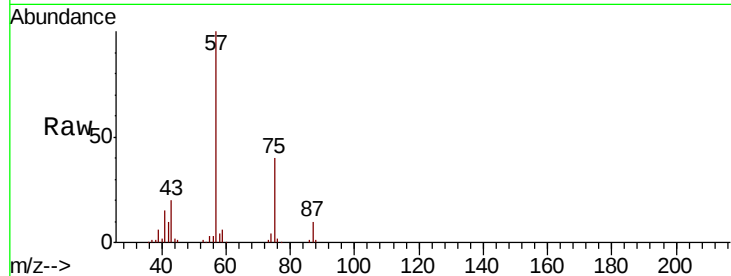




#59
2-Hexanone
Concen: 2.002 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

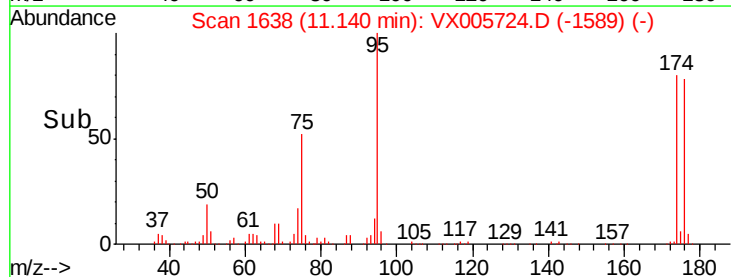
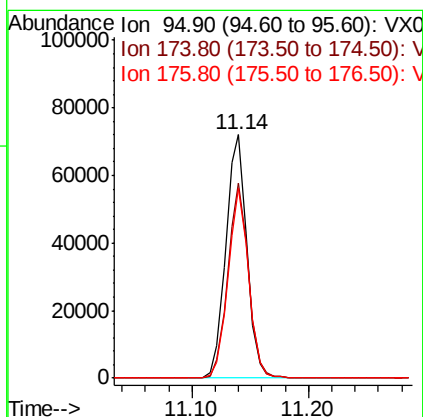
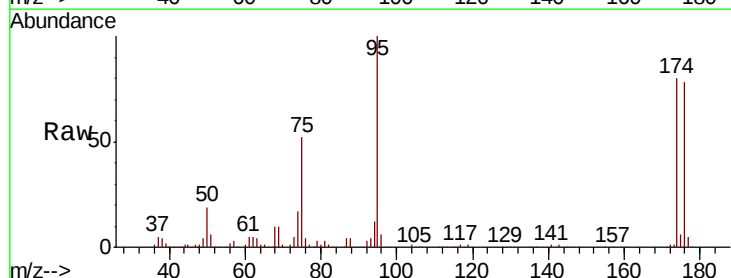
Instrument :
MSVOA_X
ClientSampled :

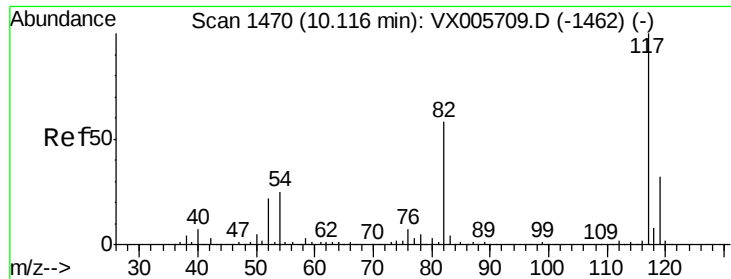
Tot Ion: 43 Resp: 5355
Ion Ratio Lower Upper
43 100
58 24.9 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 41.203 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

Tgt Ion: 95 Resp: 90226
Ion Ratio Lower Upper
95 100
174 78.6 0.0 184.4
176 76.0 0.0 177.4

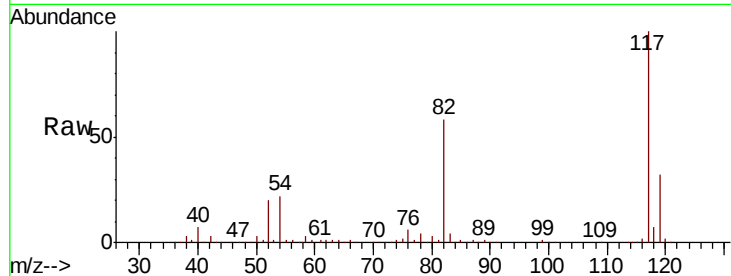




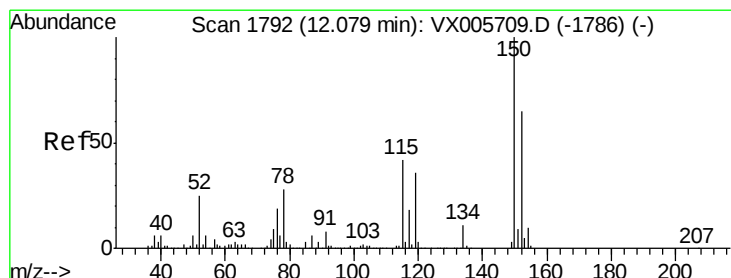
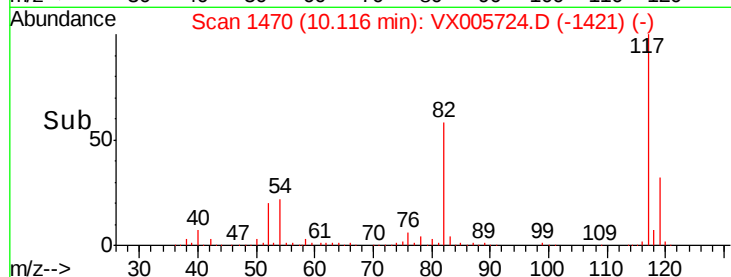
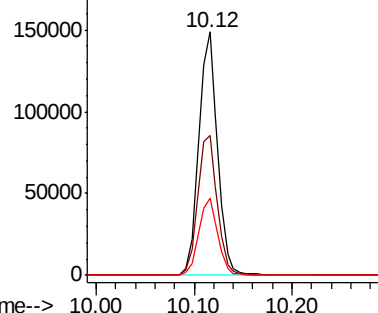
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 197670
Ion Ratio Lower Upper
117 100
82 57.7 44.1 66.1
119 31.9 26.2 39.2

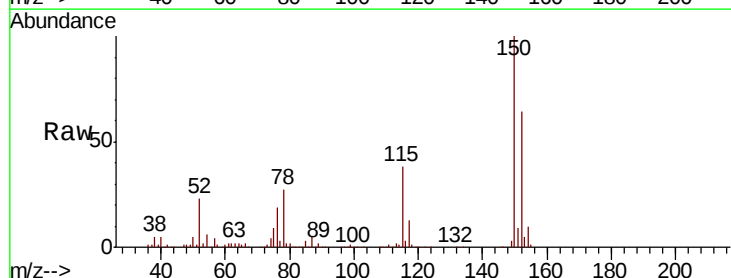


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

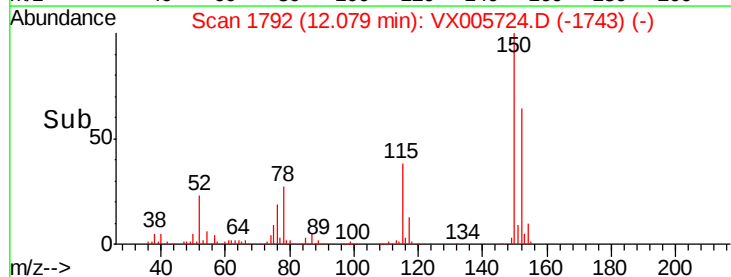
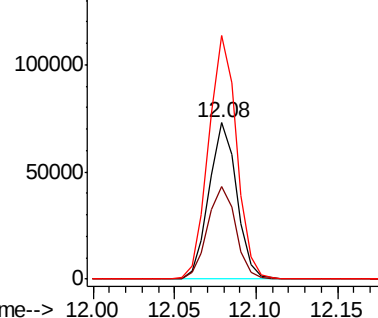


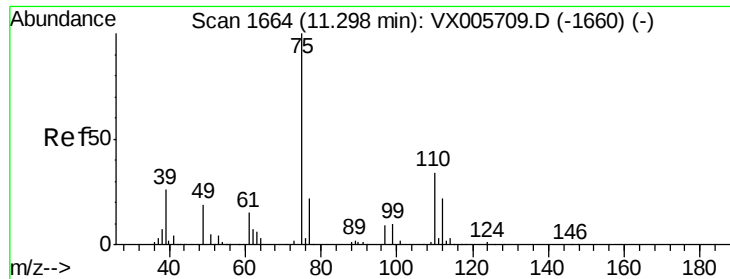
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005724.D
Acq: 01 Nov 2018 12:57

Tgt Ion:152 Resp: 86459
Ion Ratio Lower Upper
152 100
115 60.2 39.4 118.1
150 157.7 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.201 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

Instrument :

MSVOA_X

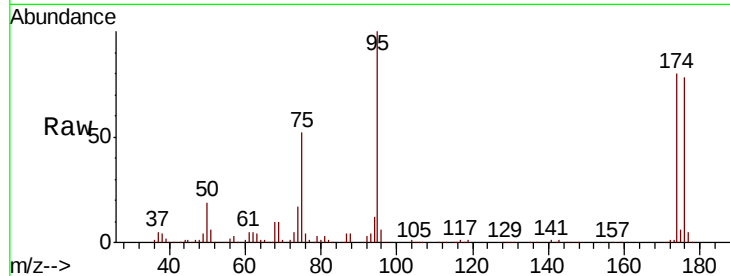
ClientSampleId :

Tot Ion: 75 Resp: 47807

Ion Ratio Lower Upper

75 100

77 1.3 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

40000

30000

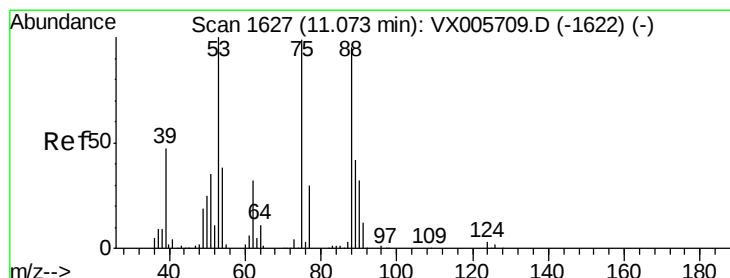
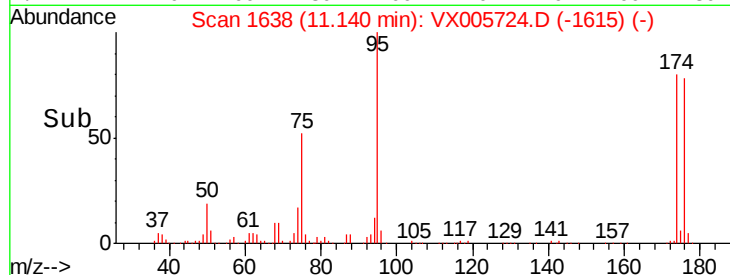
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 71.730 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005724.D

Acq: 01 Nov 2018 12:57

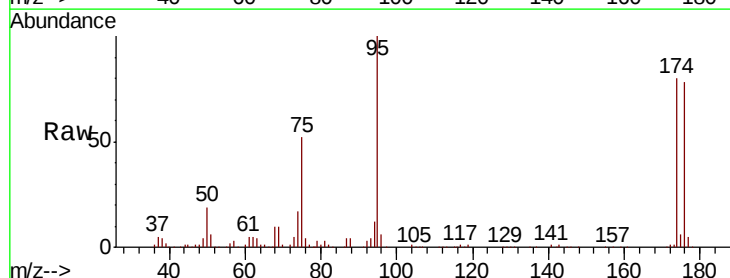
Tgt Ion: 75 Resp: 47807

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.2#

89 0.0 39.8 59.8#



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

50000

40000

30000

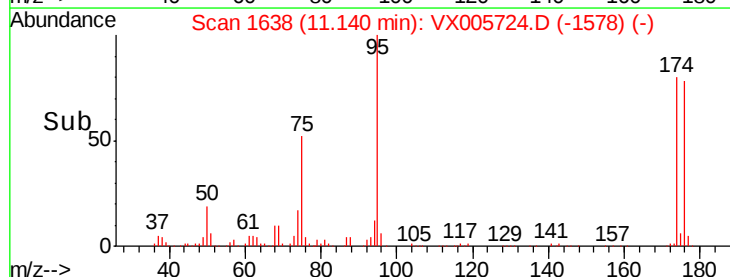
20000

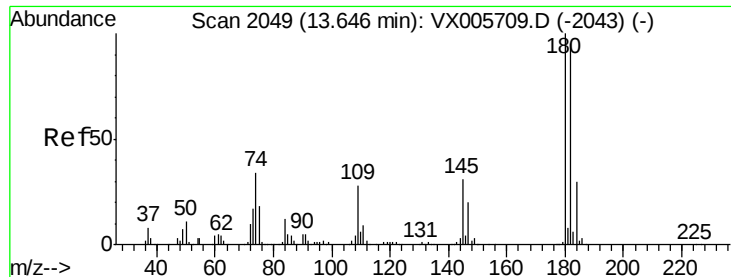
10000

0

Time-->

11.10 11.20

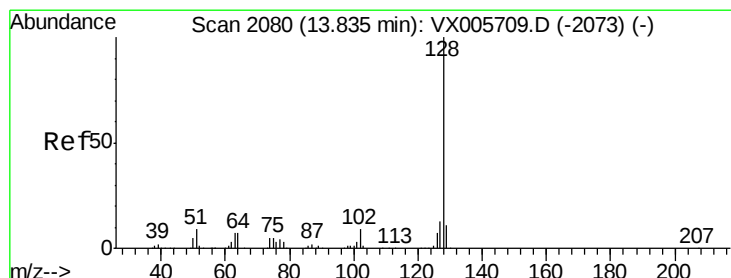
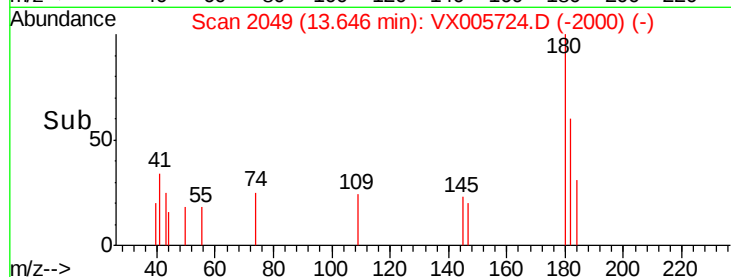
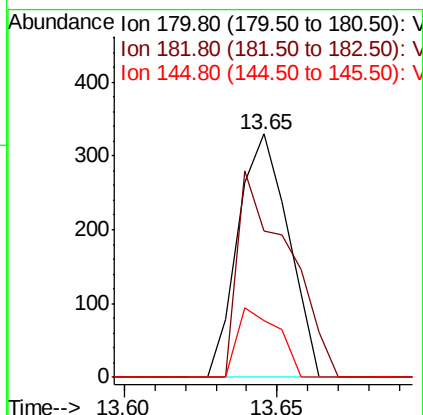
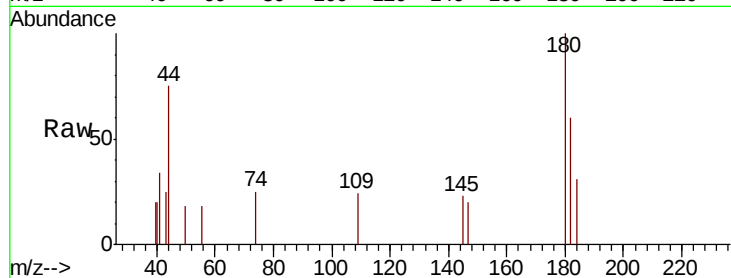




#93
 1,2,4-Trichlorobenzene
 Concen: 0.205 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX005724.D
 Acq: 01 Nov 2018 12:57

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:180 Resp: 375
 Ion Ratio Lower Upper
 180 100
 182 85.6 47.6 142.8
 145 16.8 14.1 42.2



#95
 Naphthalene
 Concen: 0.241 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX005724.D
 Acq: 01 Nov 2018 12:57

Tgt Ion:128 Resp: 1451
 Ion Ratio Lower Upper
 128 100
 127 10.7 10.4 15.6
 129 11.5 8.7 13.1

