

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061218\
 Data File : VX002469.D
 Acq On : 12 Jun 2018 16:24
 Operator : JC/MD
 Sample : J3402-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 01:26:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	199403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	292552	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	260006	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	131635	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	160903	56.91	ug/l	0.00
Spiked Amount			Recovery	=	113.82%	
35) Dibromofluoromethane	5.51	113	121401	52.77	ug/l	0.00
Spiked Amount			Recovery	=	105.54%	
50) Toluene-d8	8.72	98	467487	53.01	ug/l	0.00
Spiked Amount			Recovery	=	106.02%	
62) 4-Bromofluorobenzene	11.14	95	151626	44.59	ug/l	0.00
Spiked Amount			Recovery	=	89.18%	

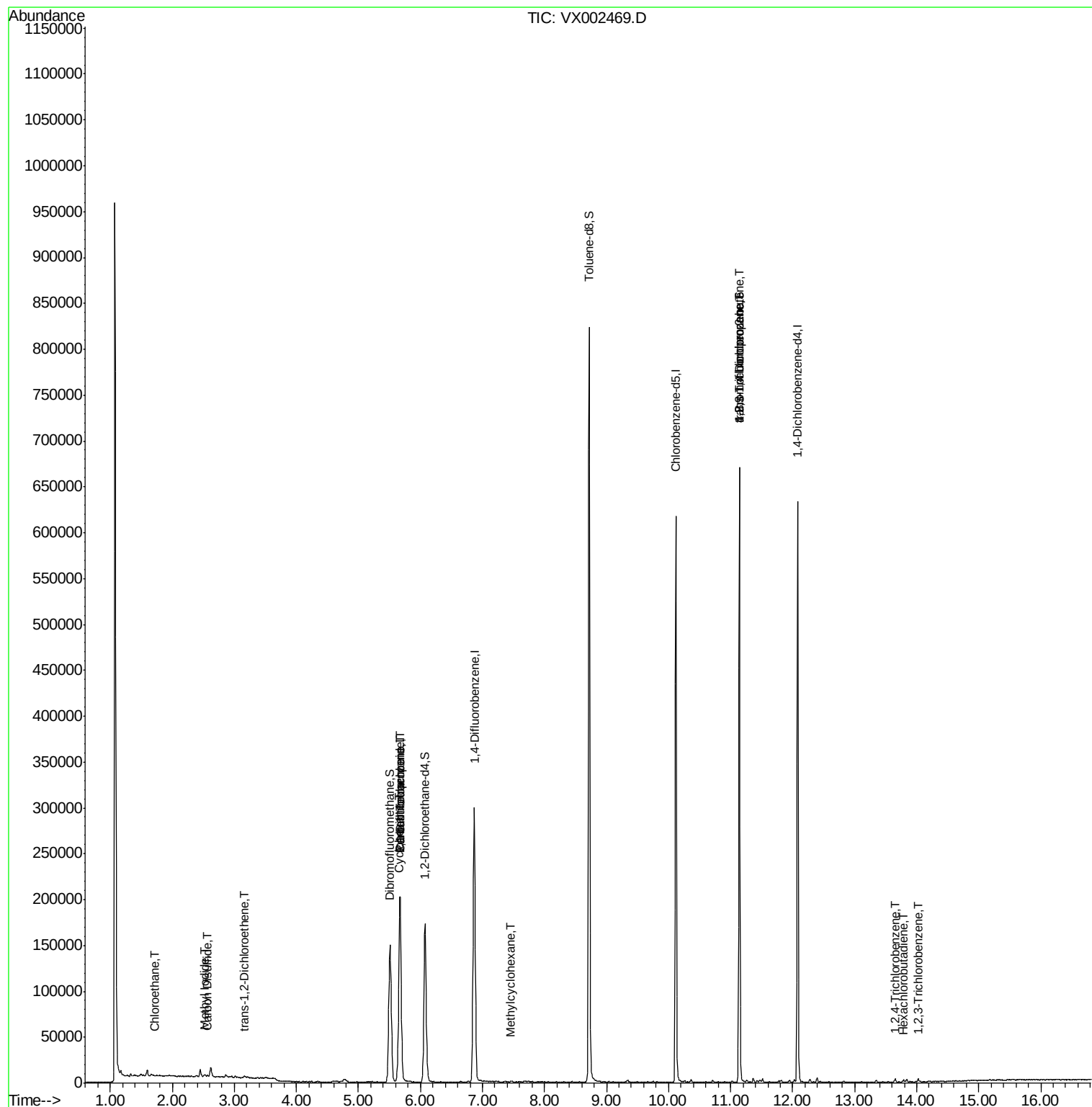
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	835	Below Cal		97
5) Bromomethane	1.66	94	868	Below Cal		83
6) Chloroethane	1.72	64	1781	1.05 ug/l	#	63
8) Diethyl Ether	2.19	74	23	Below Cal	#	1
10) Methyl Iodide	2.53	142	2582	0.85 ug/l	#	97
11) Tert butyl alcohol	3.07	59	320	Below Cal	#	94
13) Acrolein	2.31	56	287	Below Cal		98
15) Acrylonitrile	3.15	53	826	Below Cal	#	88
16) Acetone	2.45	43	8041	Below Cal		92
17) Carbon Disulfide	2.57	76	1886	0.34 ug/l		100
18) Methyl Acetate	2.78	43	951	Below Cal	#	72
19) Methyl tert-butyl Ether	3.23	73	627	Below Cal	#	76
20) Methylene Chloride	2.86	84	1076	Below Cal		86
21) trans-1,2-Dichloroethene	3.17	96	510	0.22 ug/l	#	64
22) Diisopropyl ether	3.85	45	104	Below Cal	#	15
28) Bromochloromethane	5.03	49	70	Below Cal	#	13
31) Cyclohexane	5.65	56	4409	1.22 ug/l	#	50
36) 1,1-Dichloropropene	5.67	75	14630	4.76 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	18566	5.77 ug/l	#	16
39) Methylcyclohexane	7.45	83	300	0.34 ug/l	#	72
76) 1,2,3-Trichloropropane	11.14	75	83314	28.84 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	83314	101.11 ug/l	#	6
93) 1,2,4-Trichlorobenzene	13.65	180	830	0.25 ug/l		87
94) Hexachlorobutadiene	13.79	225	416	0.25 ug/l		89
96) 1,2,3-Trichlorobenzene	14.02	180	806	0.24 ug/l		85

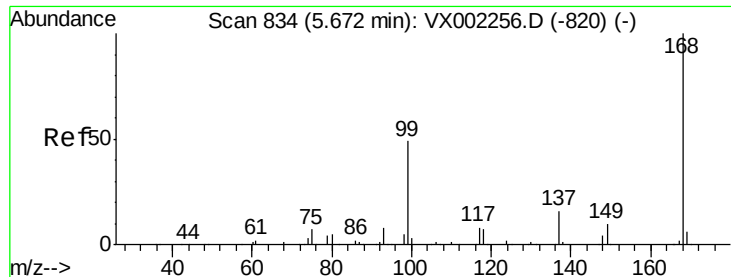
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061218\
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ClientSampleId :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

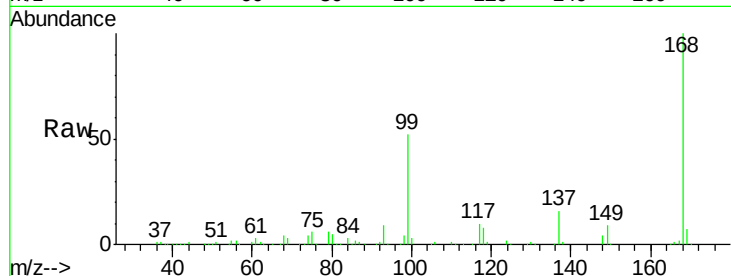
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 199403

Ion Ratio Lower Upper

168 100

99 52.1 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

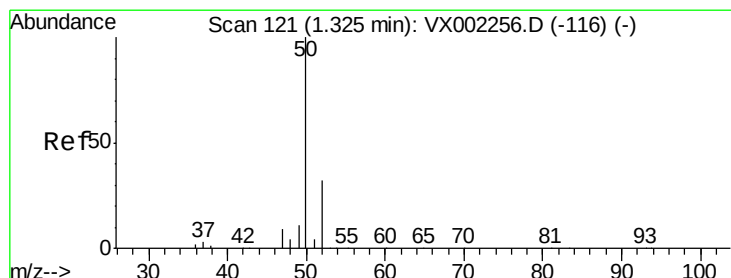
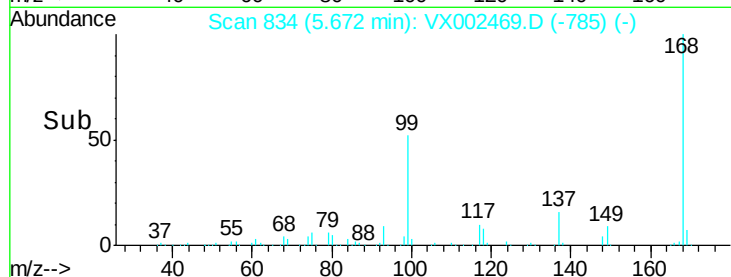
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002469.D

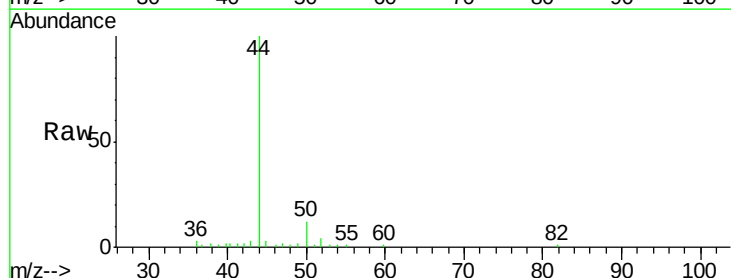
Acq: 12 Jun 2018 16:24

Tgt Ion: 50 Resp: 835

Ion Ratio Lower Upper

50 100

52 30.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

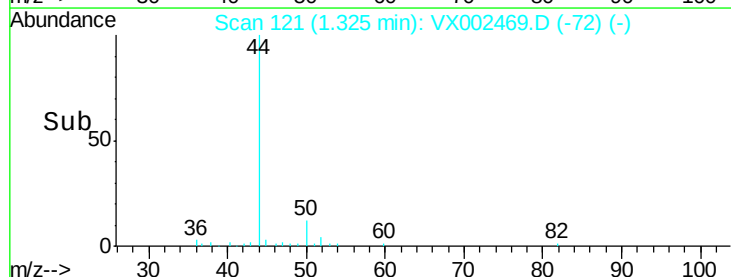
600

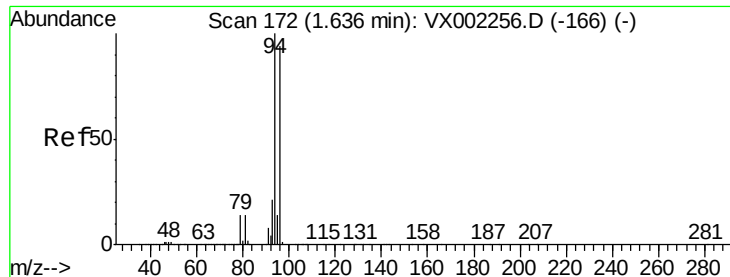
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

Instrument :

MSVOA_X

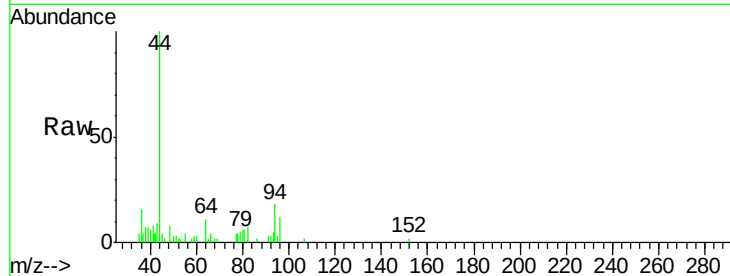
ClientSampleId :

Tot Ion: 94 Resp: 868

Ion Ratio Lower Upper

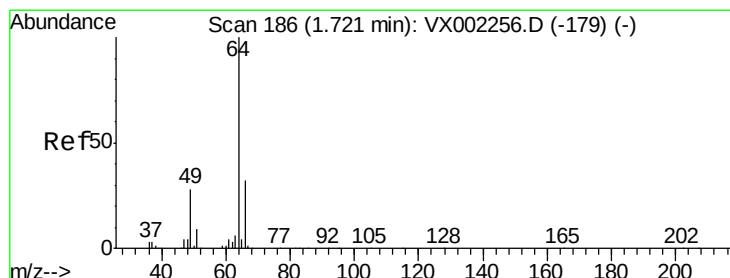
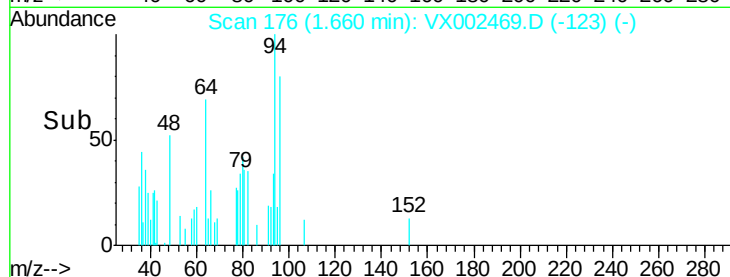
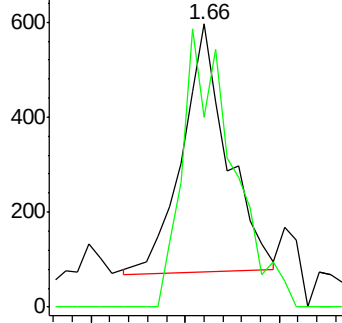
94 100

96 77.0 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.05 ug/l

RT: 1.72 min Scan# 186

Delta R.T. -0.00 min

Lab File: VX002469.D

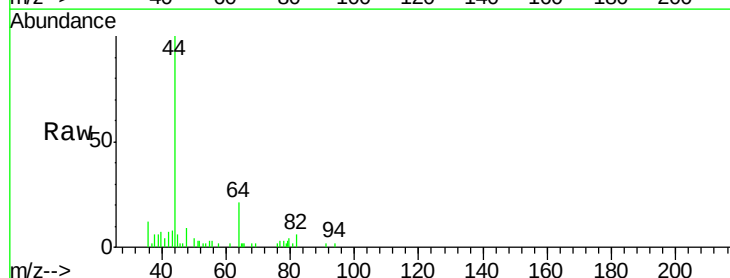
Acq: 12 Jun 2018 16:24

Tgt Ion: 64 Resp: 1781

Ion Ratio Lower Upper

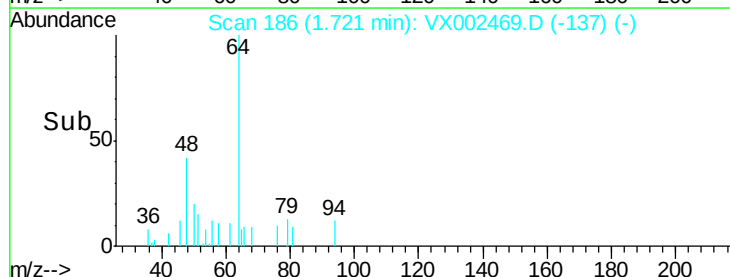
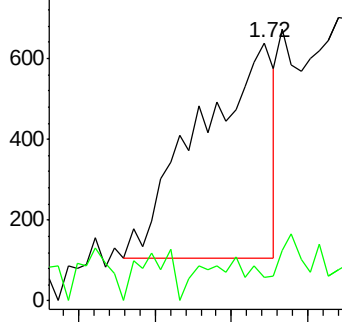
64 100

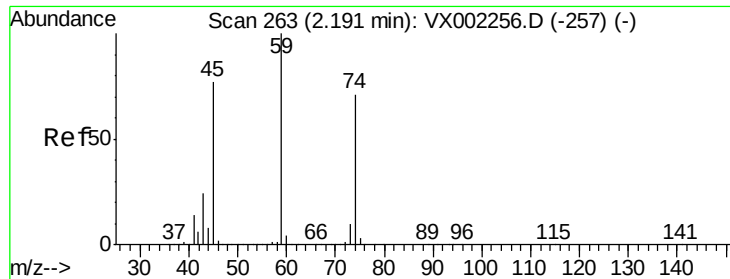
66 11.1 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

Instrument :

MSVOA_X

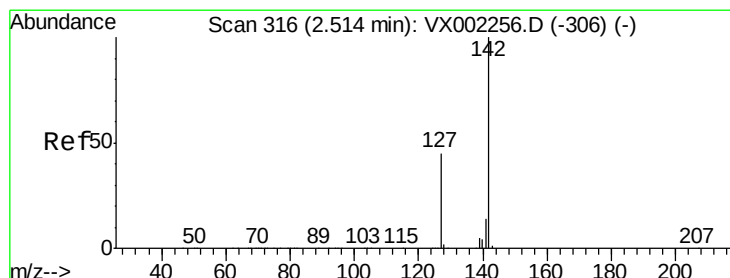
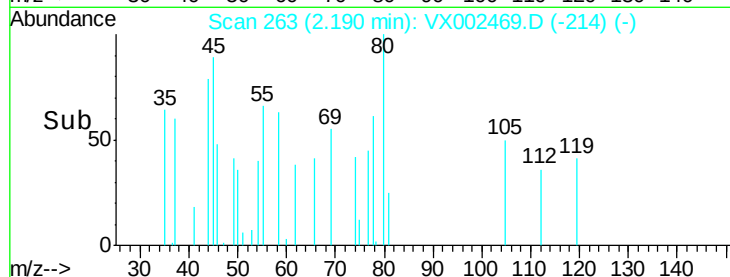
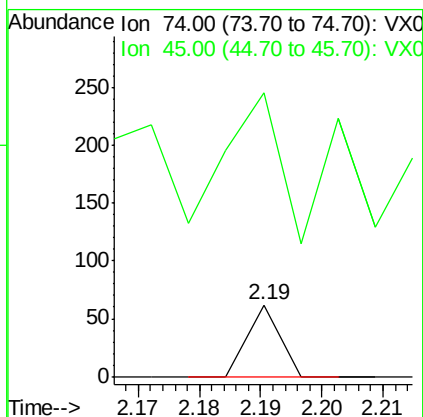
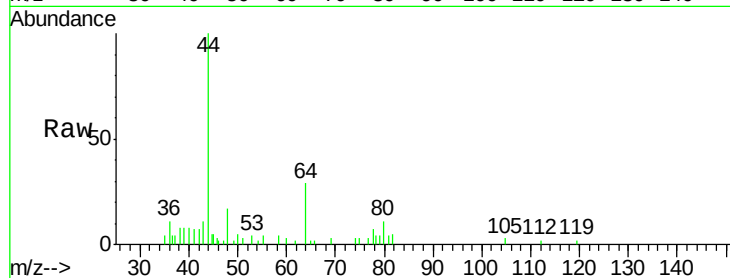
ClientSampled :

Tot Ion: 74 Resp: 23

Ion Ratio Lower Upper

74 100

45 334.8 53.1 159.4#



#10

Methyl Iodide

Concen: 0.85 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

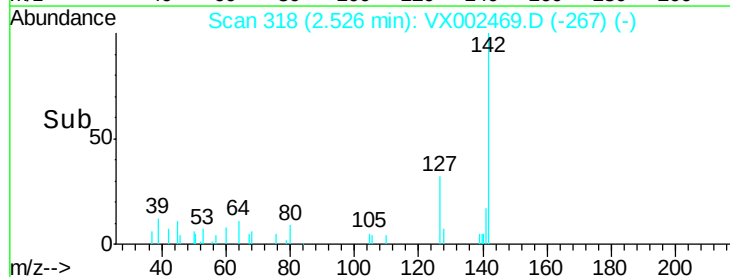
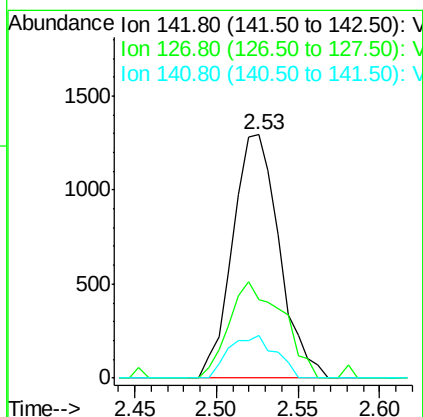
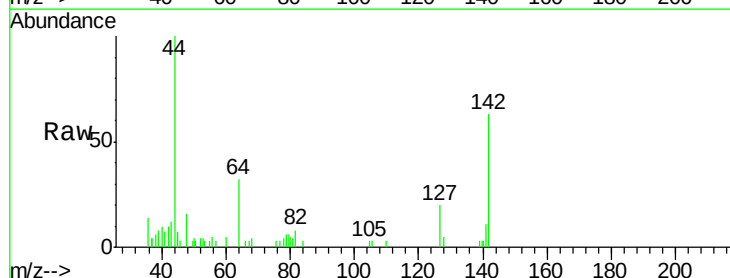
Tgt Ion:142 Resp: 2582

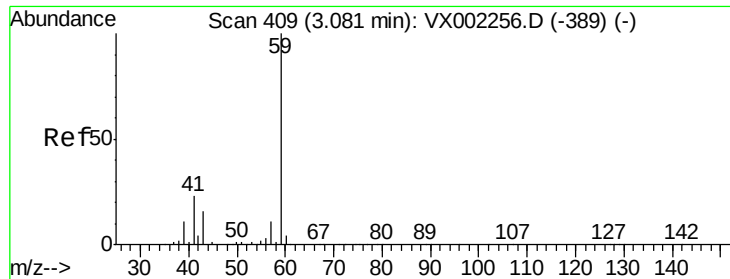
Ion Ratio Lower Upper

142 100

127 45.2 36.6 55.0

141 17.4 11.3 16.9#



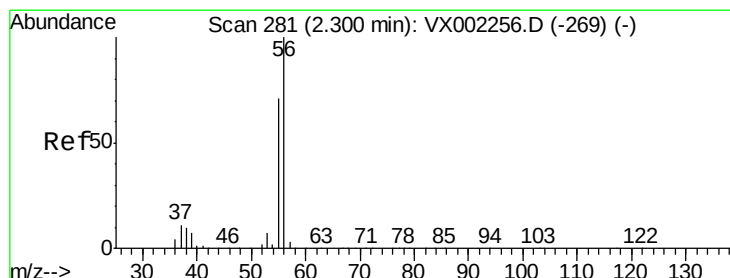
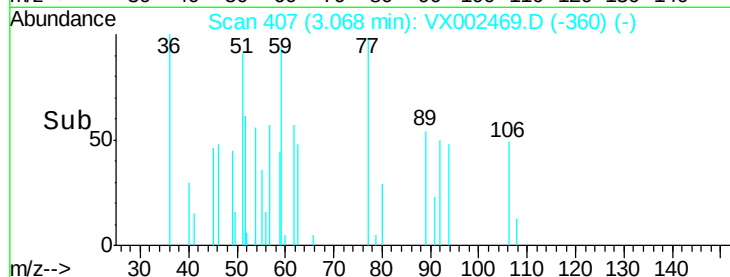
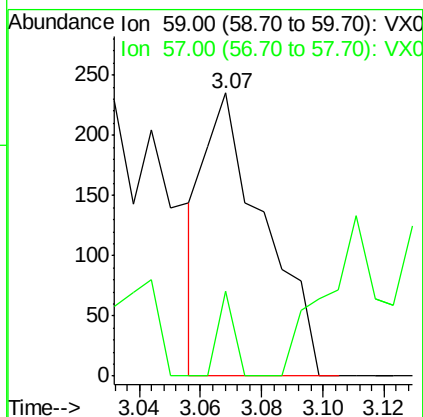
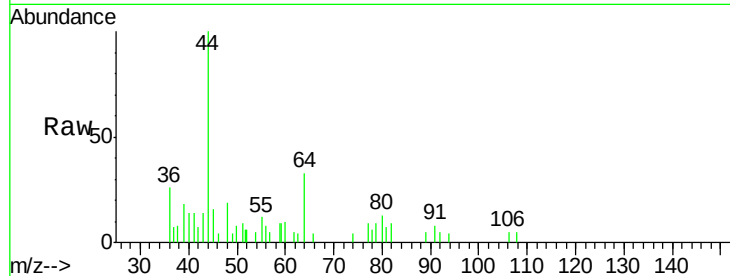


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

Instrument :
MSVOA_X
ClientSampled :

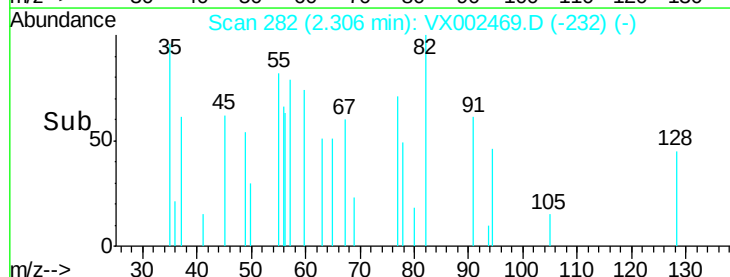
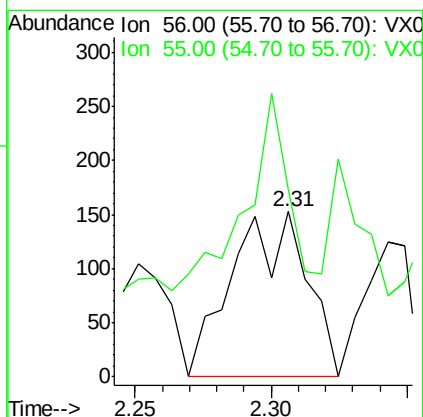
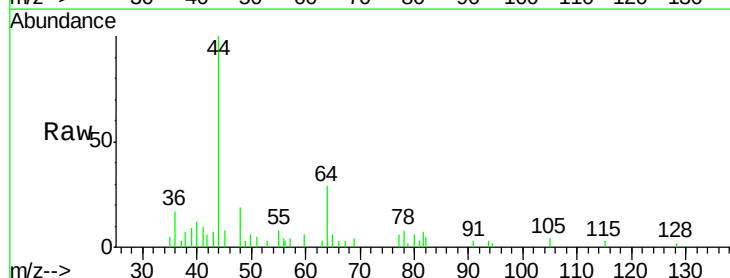
Tot Ion: 59 Resp: 320
Ion Ratio Lower Upper
59 100
57 8.1 8.2 12.2#

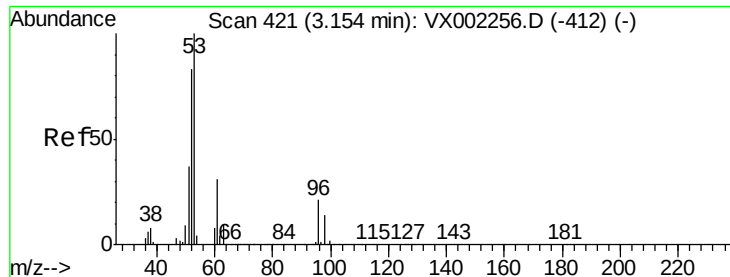


#13

Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

Tgt Ion: 56 Resp: 287
Ion Ratio Lower Upper
56 100
55 72.8 57.0 85.4





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

Instrument :
MSVOA_X
ClientSampled :

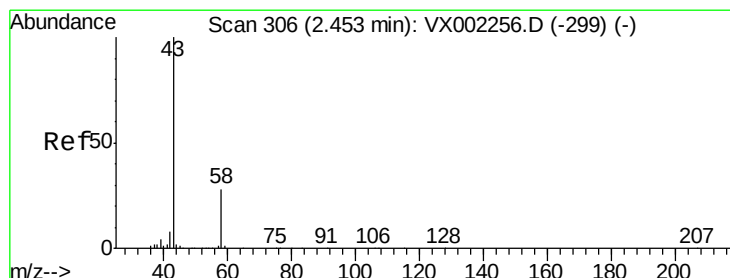
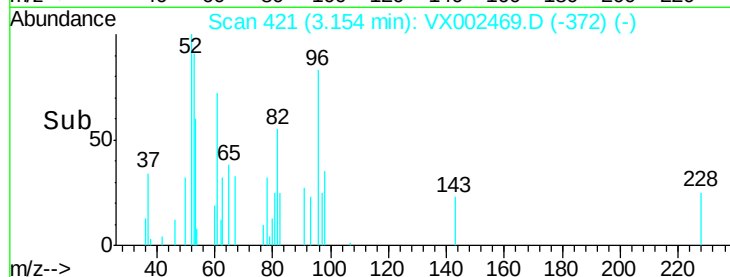
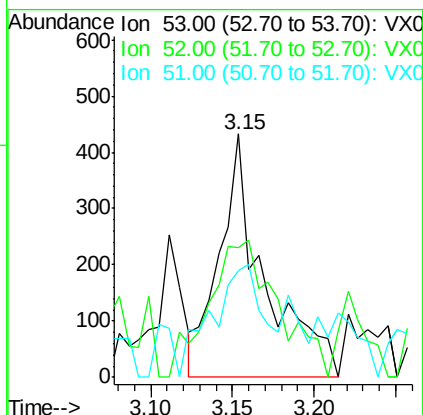
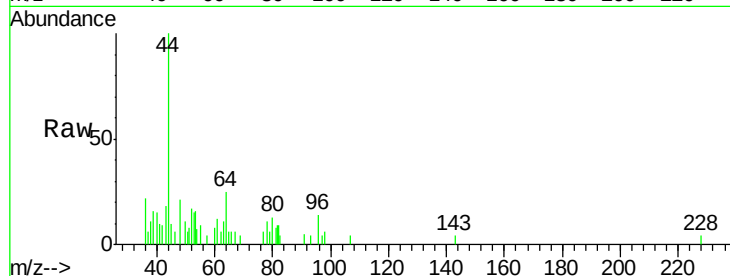
Tot Ion: 53 Resp: 826

Ion Ratio Lower Upper

53 100

52 88.4 66.7 100.1

51 54.1 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002469.D

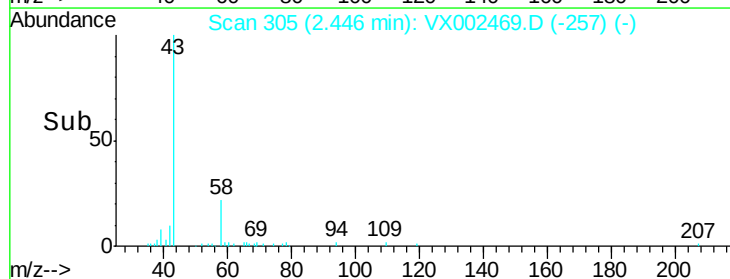
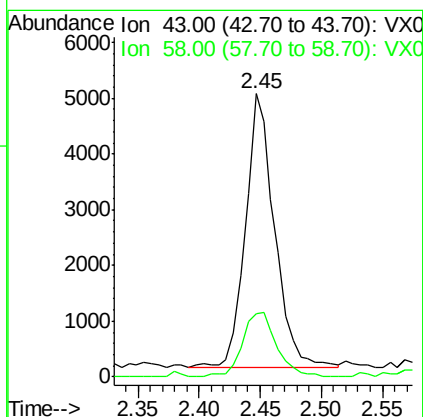
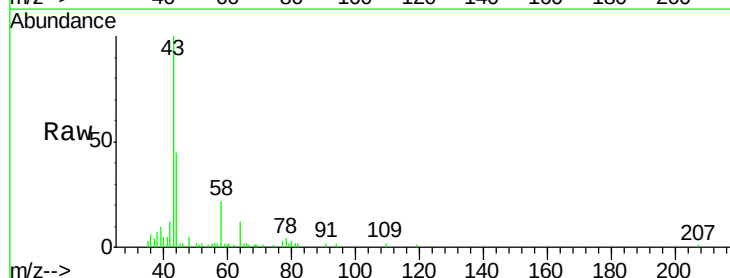
Acq: 12 Jun 2018 16:24

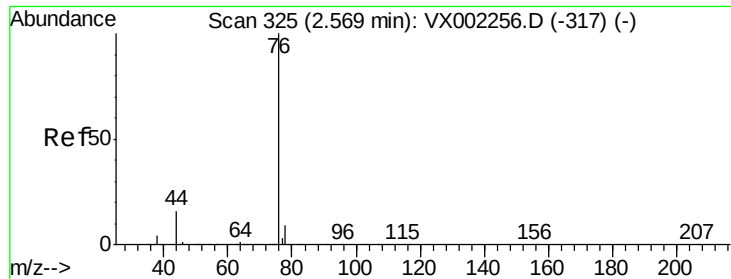
Tgt Ion: 43 Resp: 8041

Ion Ratio Lower Upper

43 100

58 23.2 22.1 33.1

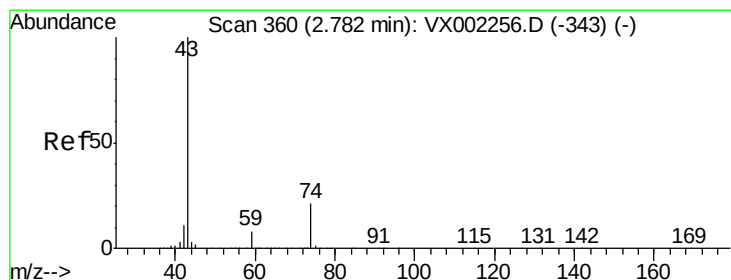
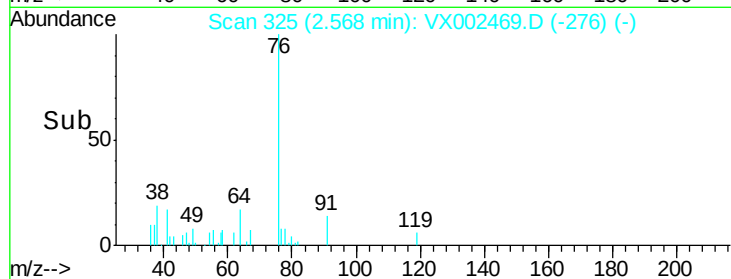
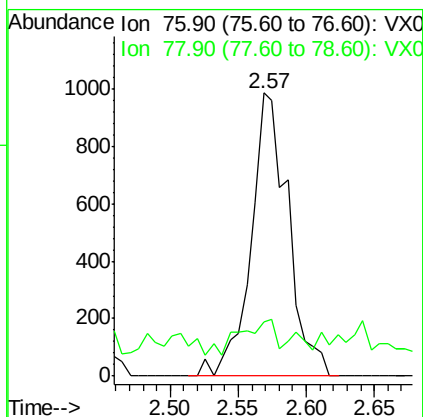
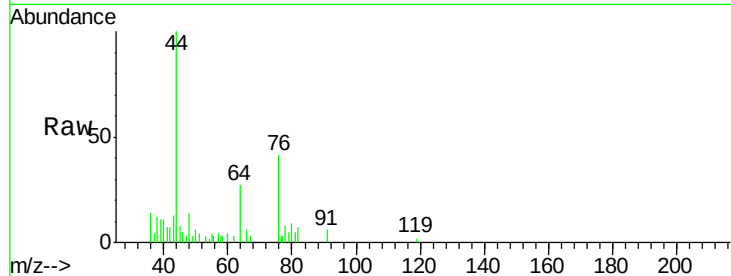




#17
Carbon Disulfide
Concen: 0.34 ua/l
RT: 2.57 min Scan# 325
Delta R.T. -0.00 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

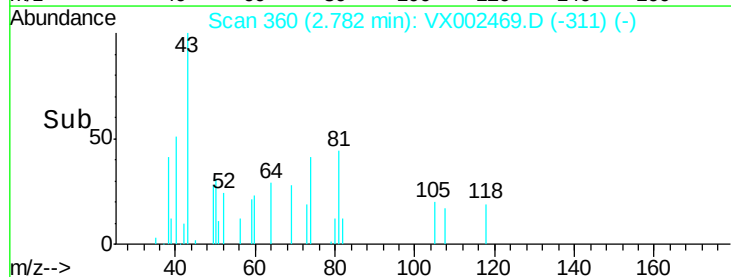
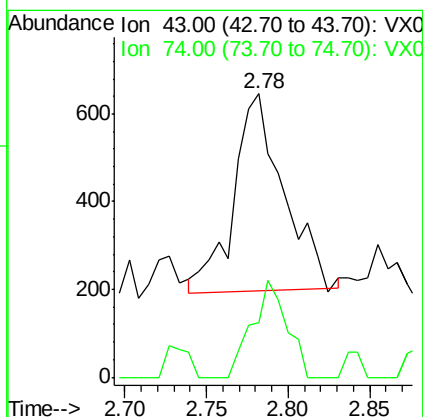
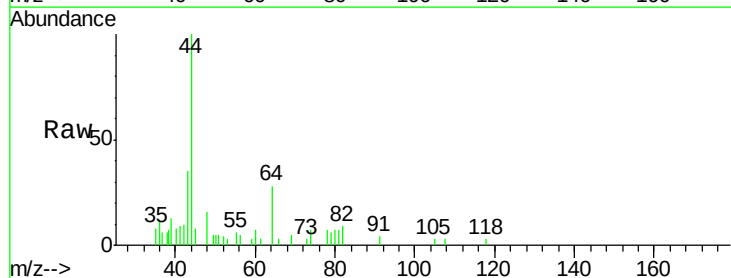
Instrument :
MSVOA_X
ClientSampled :

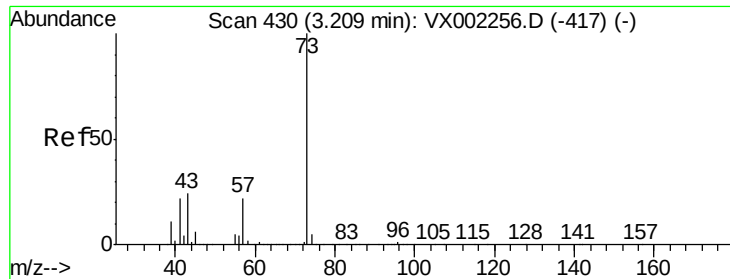
Tot Ion: 76 Resp: 1886
Ion Ratio Lower Upper
76 100
78 8.5 6.9 10.3



#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

Tgt Ion: 43 Resp: 951
Ion Ratio Lower Upper
43 100
74 33.9 16.7 25.1#

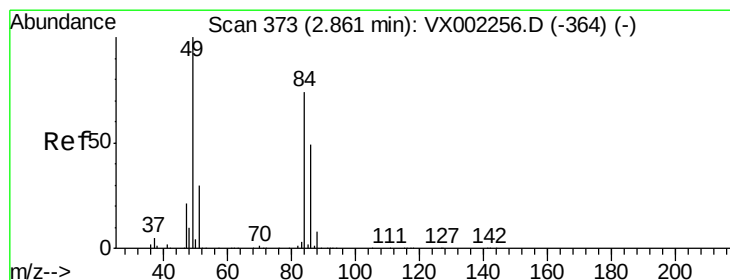
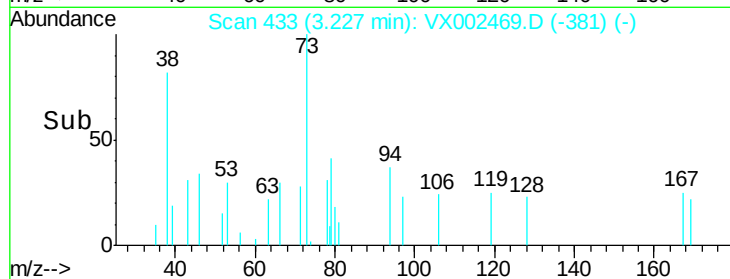
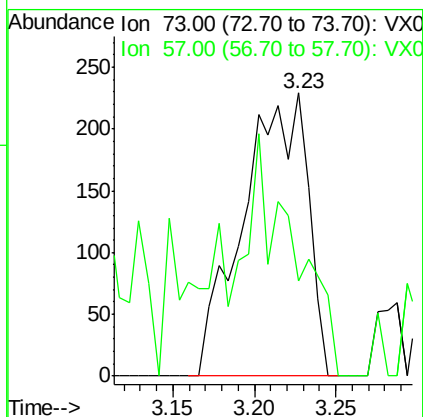
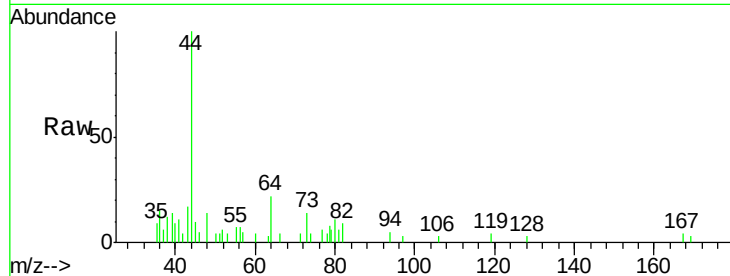




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.23 min Scan# 433
Delta R.T. 0.02 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

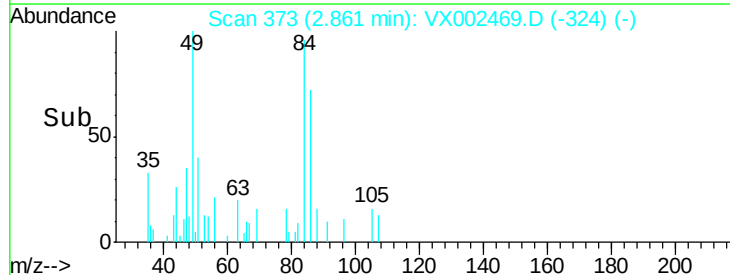
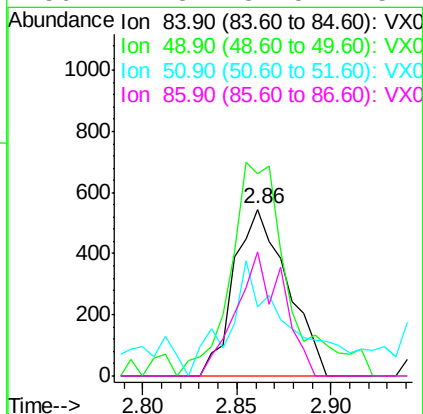
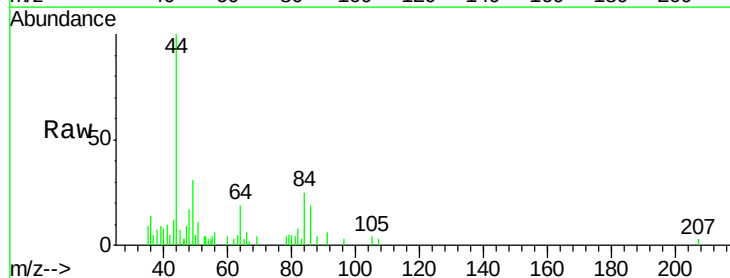
Instrument :
MSVOA_X
ClientSampled :

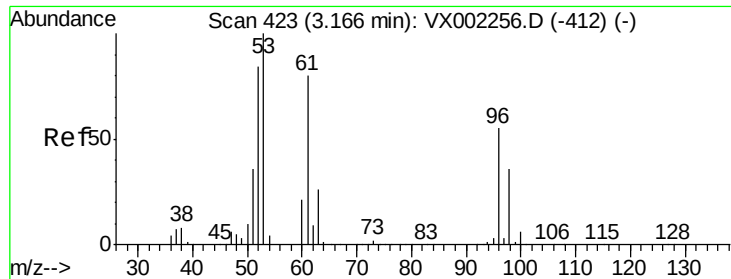
Tot Ion: 73 Resp: 627
Ion Ratio Lower Upper
73 100
57 33.6 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

Tgt Ion: 84 Resp: 1076
Ion Ratio Lower Upper
84 100
49 112.3 107.8 161.6
51 41.8 32.8 49.2
86 74.3 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 0.22 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

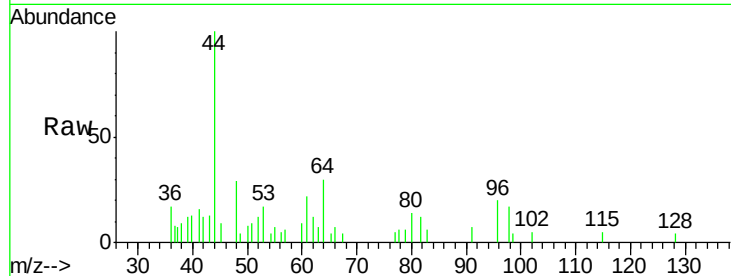
Tot Ion: 96 Resp: 510

Ion Ratio Lower Upper

96 100

61 108.1 117.0 175.4#

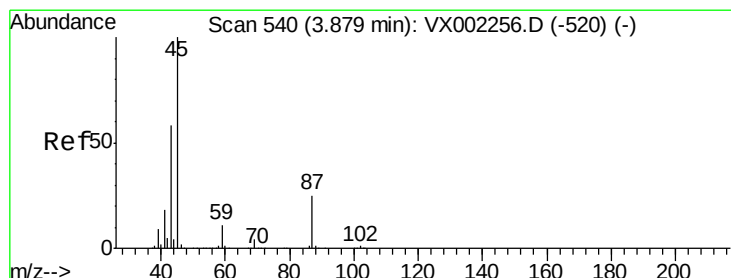
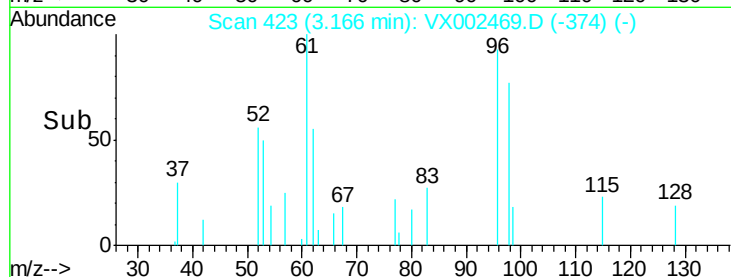
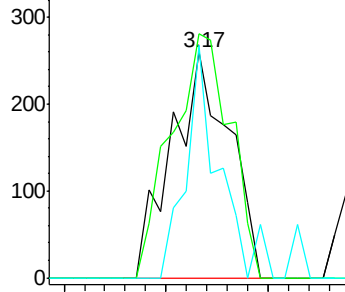
98 103.1 52.4 78.6#



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



#22

Diisopropyl ether

Concen: Below Cal

RT: 3.85 min Scan# 535

Delta R.T. -0.03 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

Tgt Ion: 45 Resp: 104

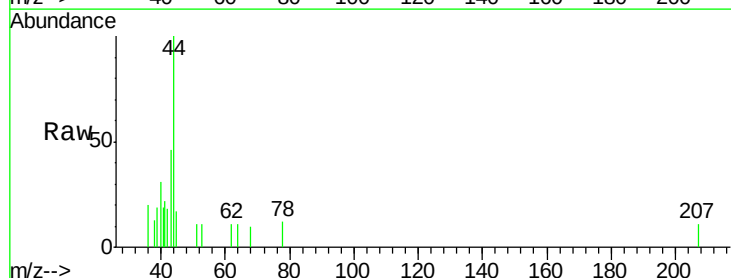
Ion Ratio Lower Upper

45 100

43 140.4 46.8 70.2#

87 0.0 20.2 30.4#

59 0.0 8.7 13.1#

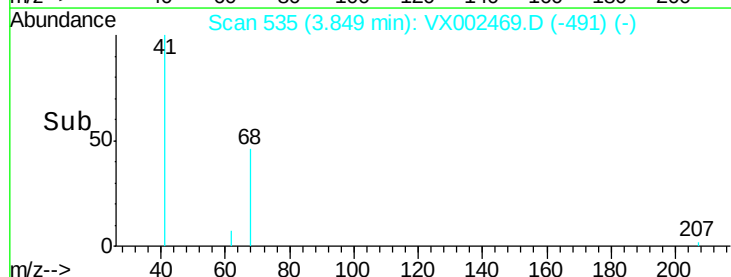
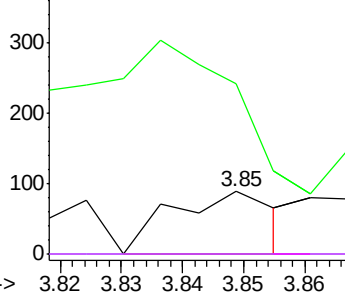


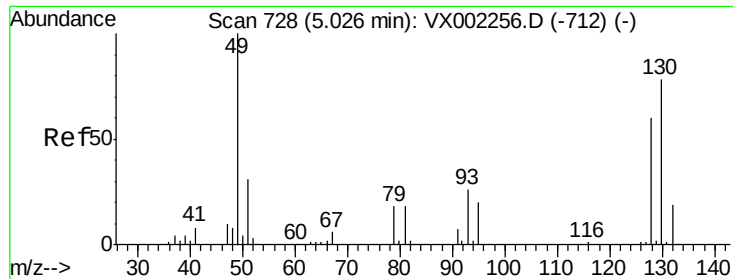
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

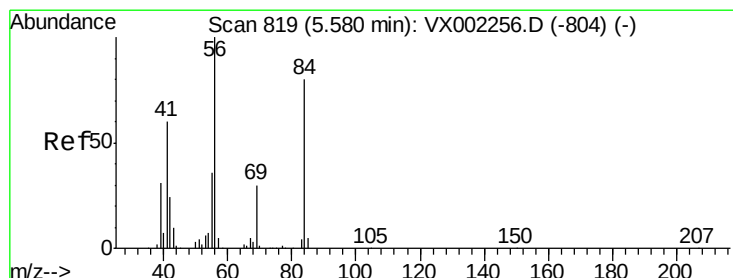
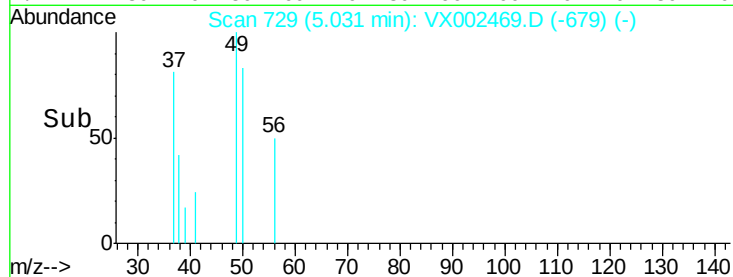
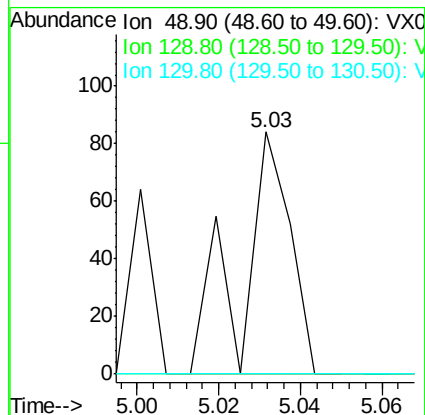
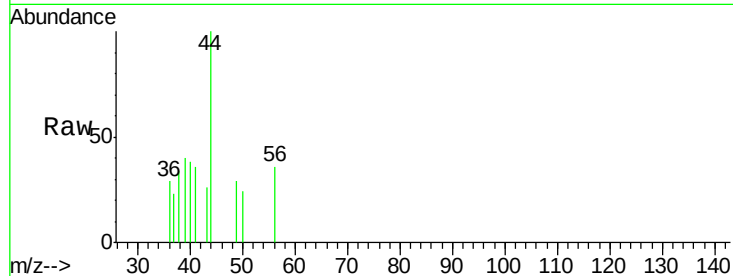
Delta R.T. 0.01 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 70
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#31

Cyclohexane

Concen: 1.22 ug/l

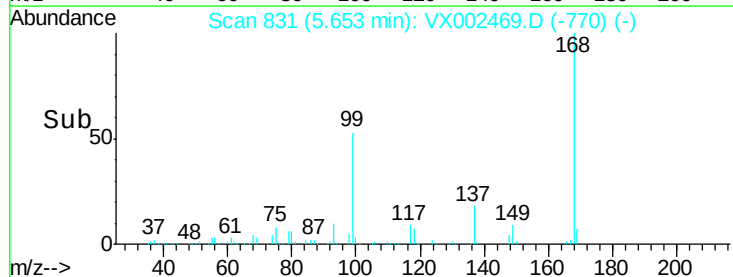
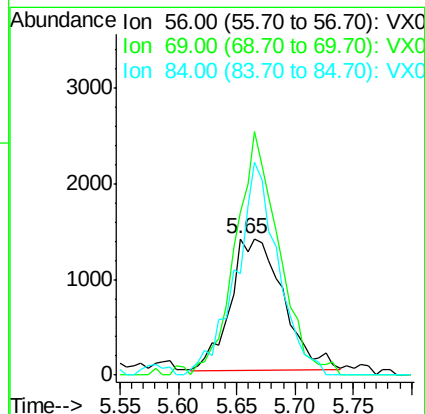
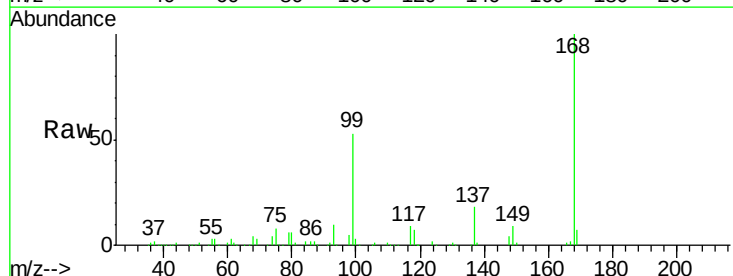
RT: 5.65 min Scan# 831

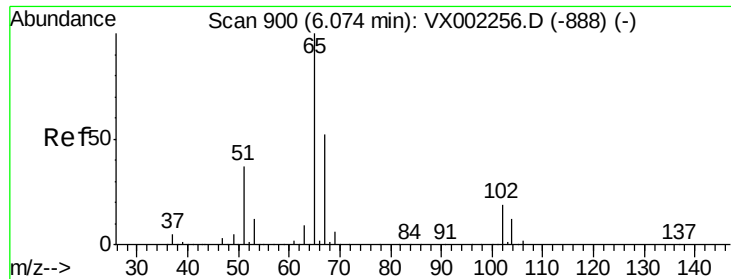
Delta R.T. 0.07 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

Tgt Ion: 56 Resp: 4409
Ion Ratio Lower Upper
56 100
69 123.5 23.7 35.5#
84 76.9 64.1 96.1

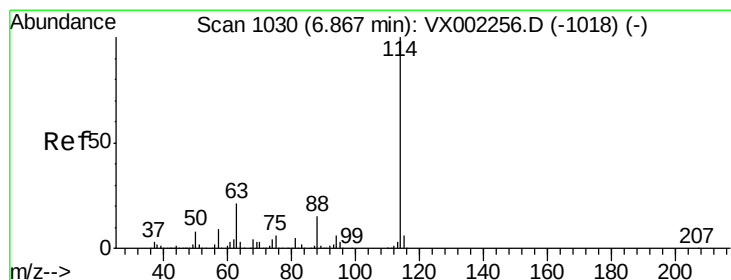
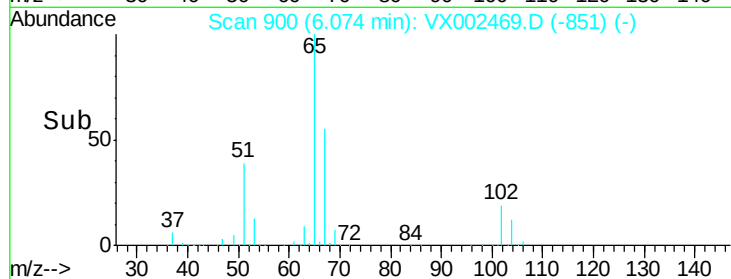
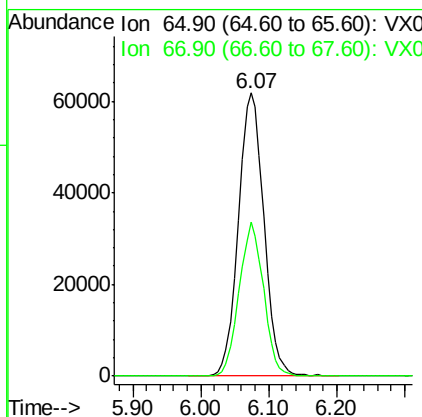
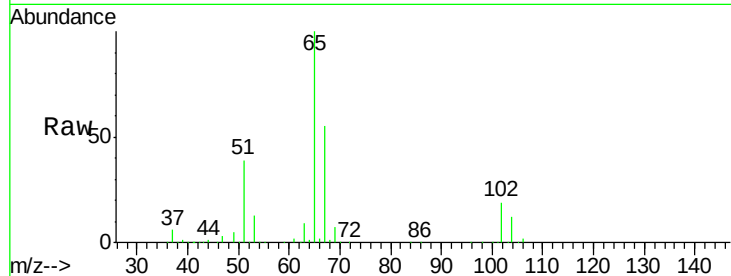




#33
 1,2-Dichloroethane-d4
 Concen: 56.91 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002469.D
 Acq: 12 Jun 2018 16:24

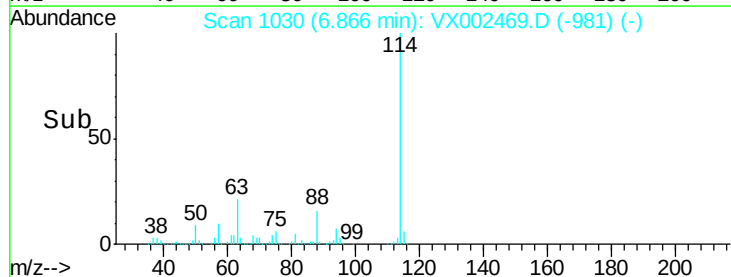
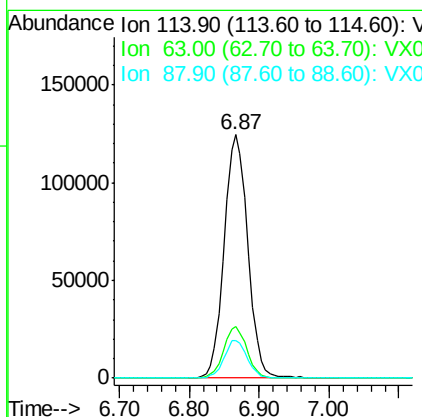
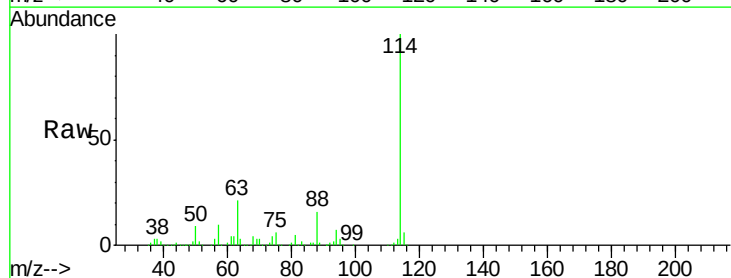
Instrument :
 MSVOA_X
 ClientSampleId :

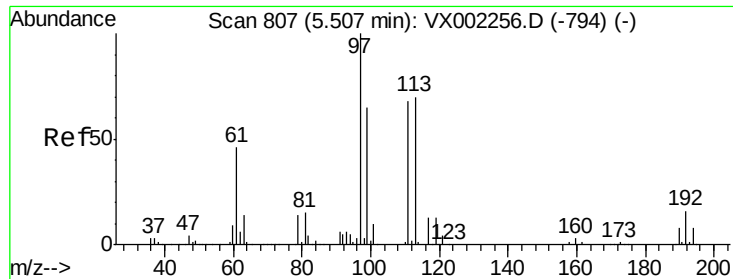
Tot Ion: 65 Resp: 160903
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002469.D
 Acq: 12 Jun 2018 16:24

Tgt Ion: 114 Resp: 292552
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 41.4
 88 15.6 0.0 30.0





#35

Dibromofluoromethane

Concen: 52.77 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

Instrument :

MSVOA_X

ClientSampled :

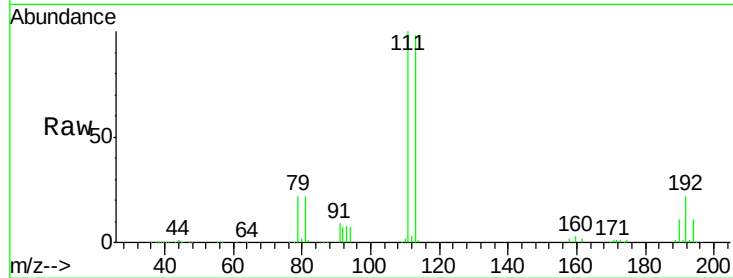
Tot Ion:113 Resp: 121401

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

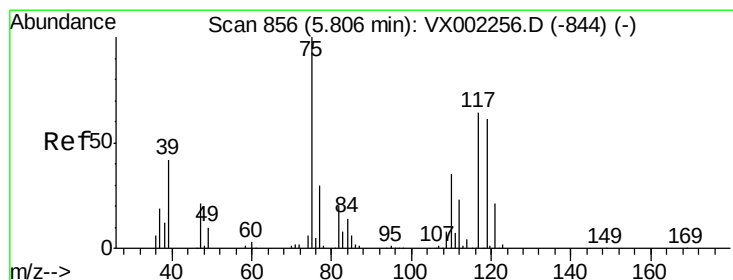
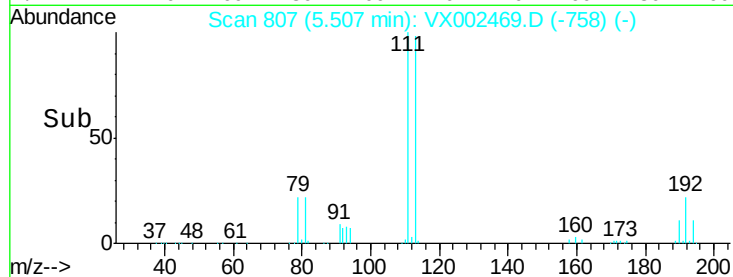
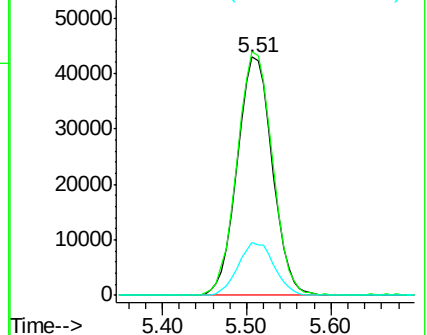
192 22.8 19.1 28.7



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: 4.76 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

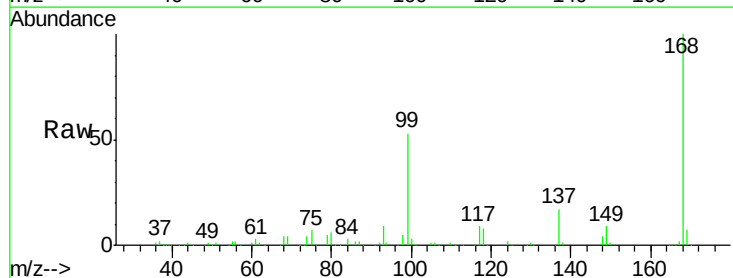
Tgt Ion: 75 Resp: 14630

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

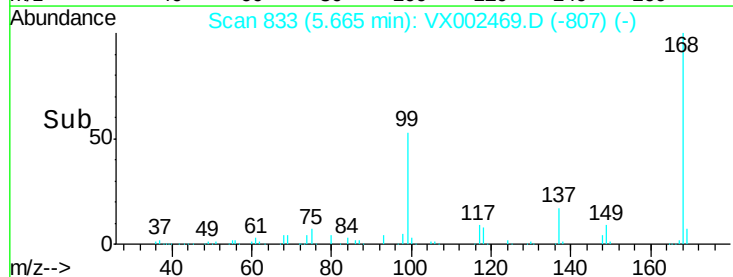
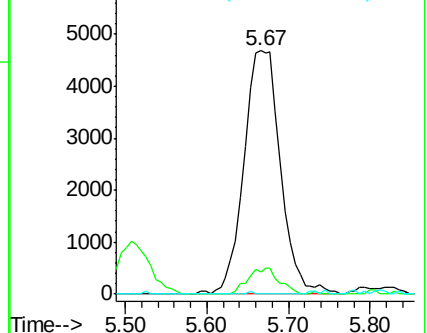
77 0.1 24.3 36.5#

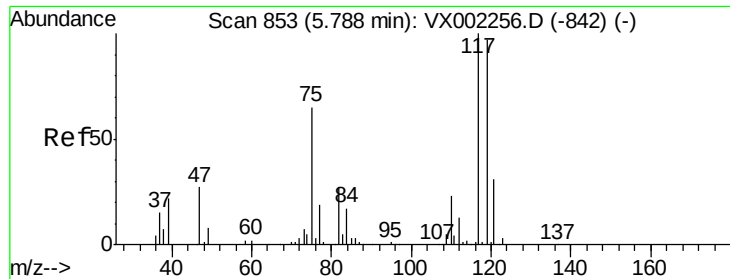


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.77 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

Instrument :

MSVOA_X

ClientSampled :

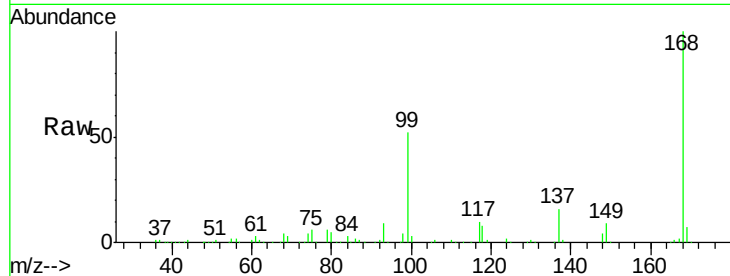
Tot Ion:117 Resp: 18566

Ion Ratio Lower Upper

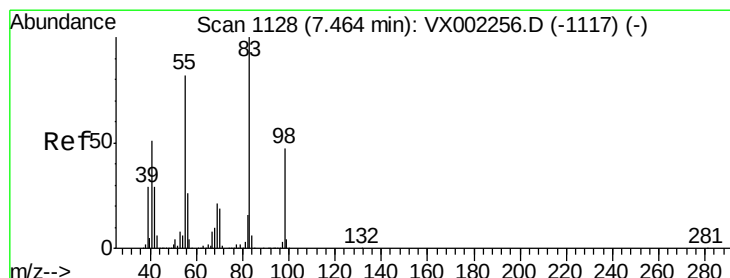
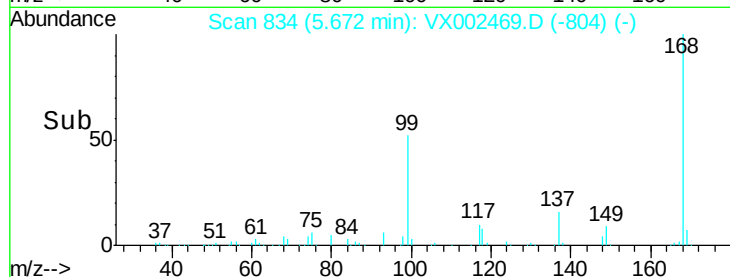
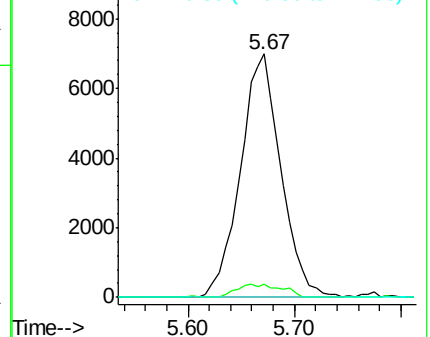
117 100

119 5.3 77.4 116.0#

121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 0.34 ug/l

RT: 7.45 min Scan# 1126

Delta R.T. -0.01 min

Lab File: VX002469.D

Acq: 12 Jun 2018 16:24

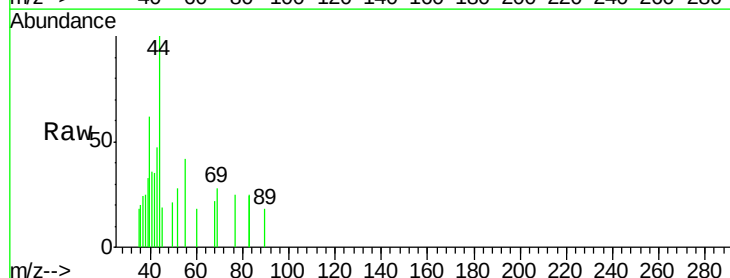
Tgt Ion: 83 Resp: 300

Ion Ratio Lower Upper

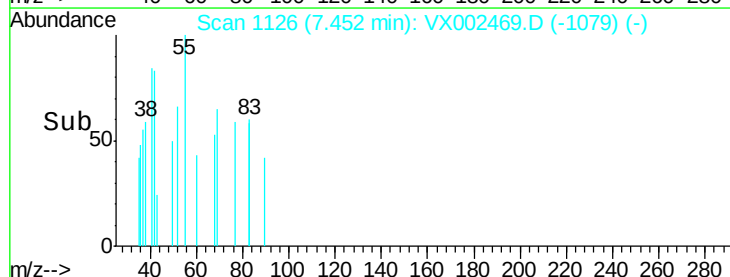
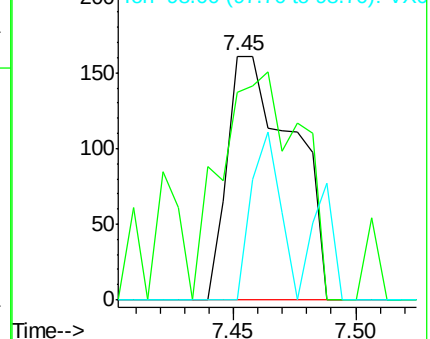
83 100

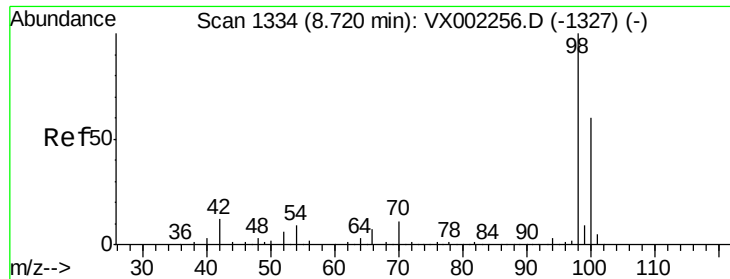
55 85.1 65.4 98.0

98 0.0 37.4 56.0#



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

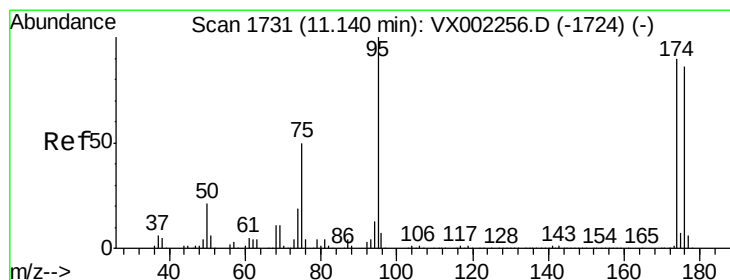
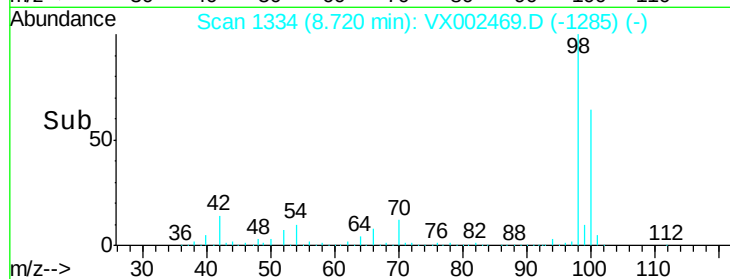
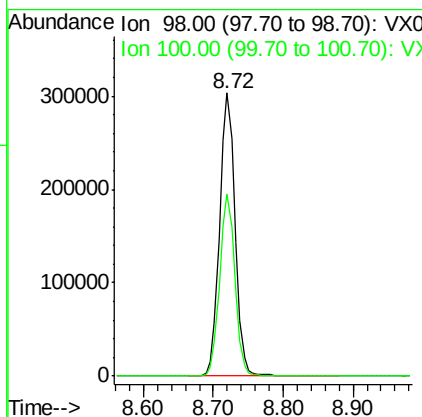
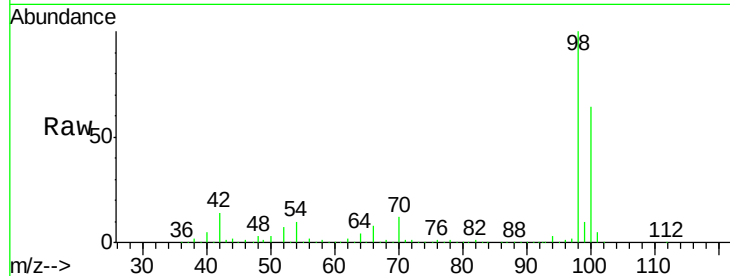




#50
Toluene-d8
Concen: 53.01 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

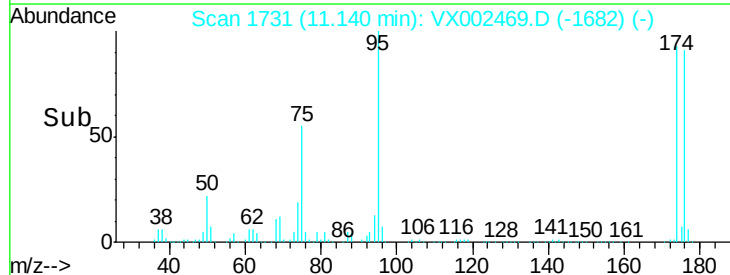
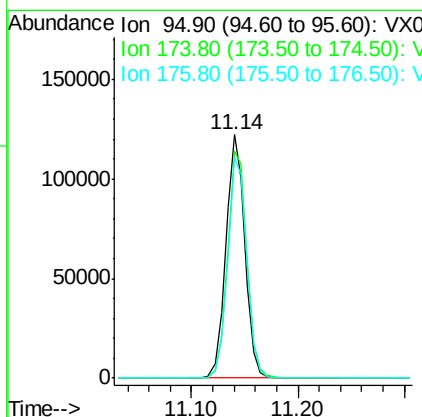
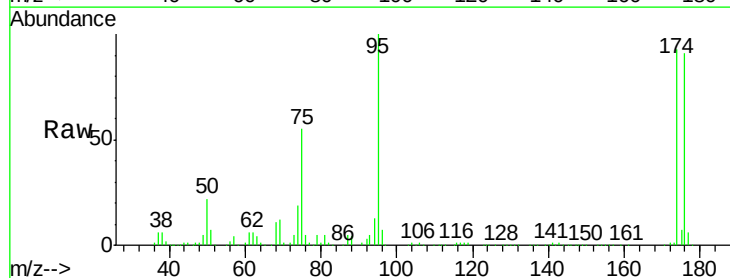
Instrument :
MSVOA_X
ClientSampleId :

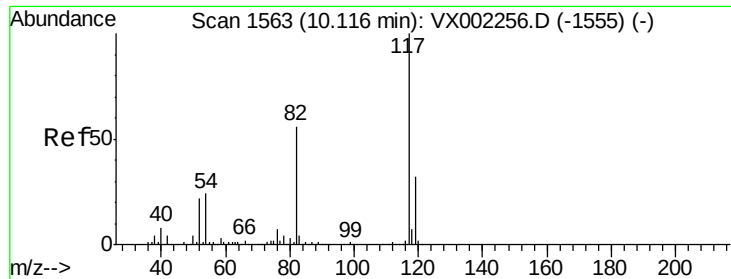
Tot Ion: 98 Resp: 467487
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.59 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

Tgt Ion: 95 Resp: 151626
Ion Ratio Lower Upper
95 100
174 95.3 0.0 187.4
176 91.7 0.0 181.0

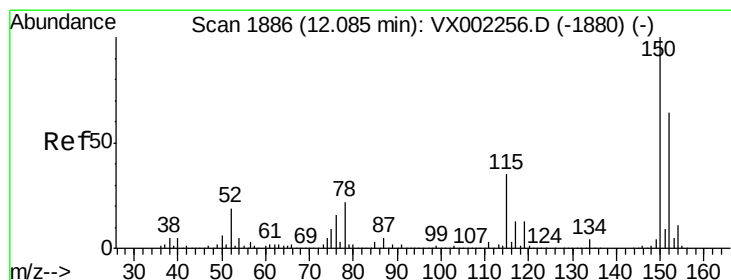
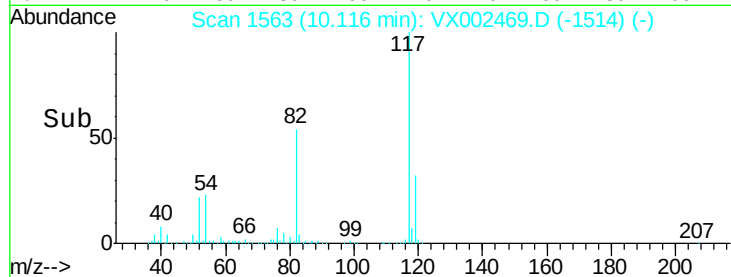
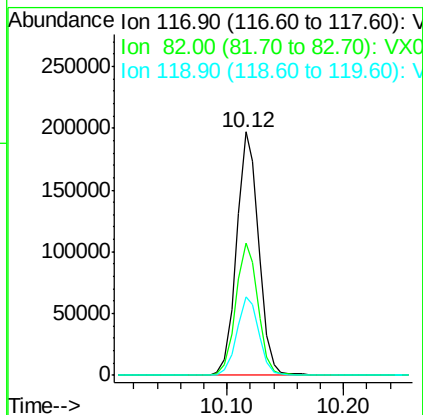
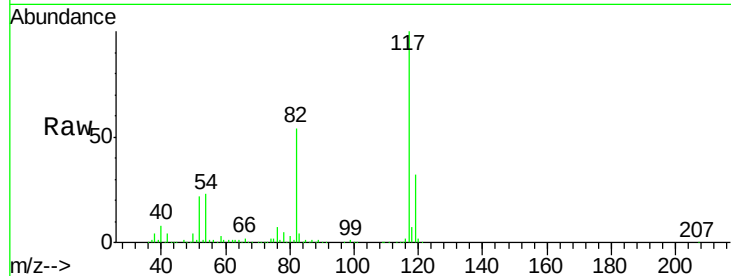




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

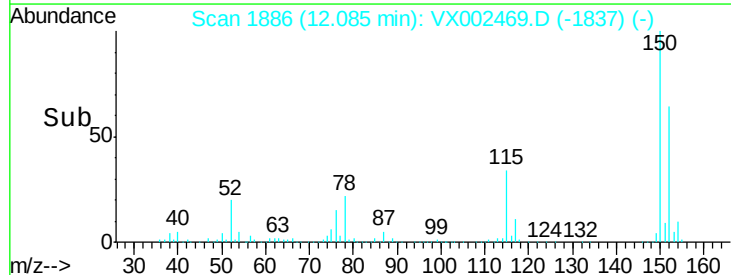
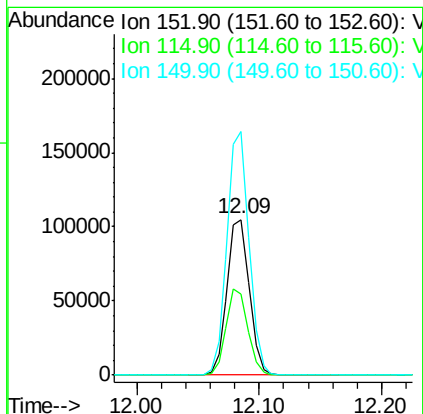
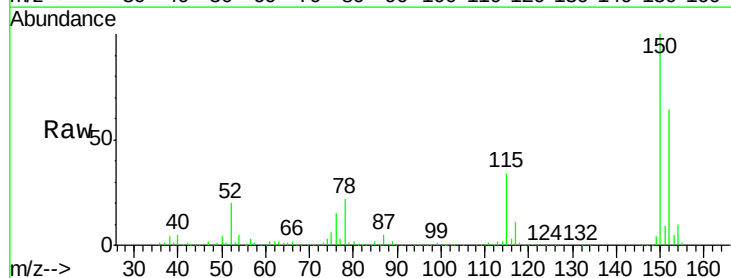
Instrument :
MSVOA_X
ClientSampled :

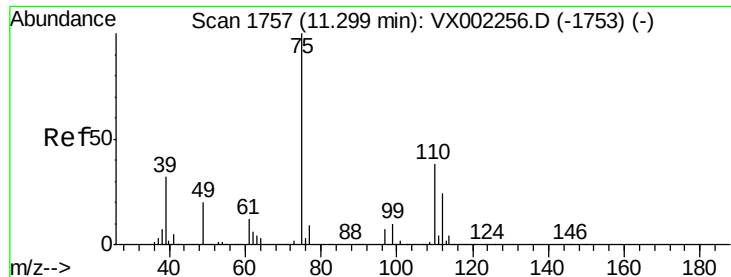
Tot Ion:117 Resp: 260006
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 32.4 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002469.D
Acq: 12 Jun 2018 16:24

Tgt Ion:152 Resp: 131635
Ion Ratio Lower Upper
152 100
115 54.4 40.1 120.2
150 154.5 0.0 347.2

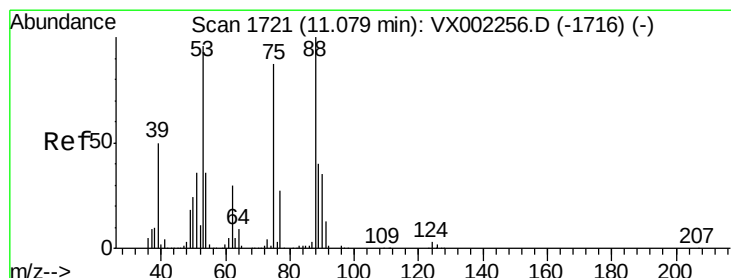
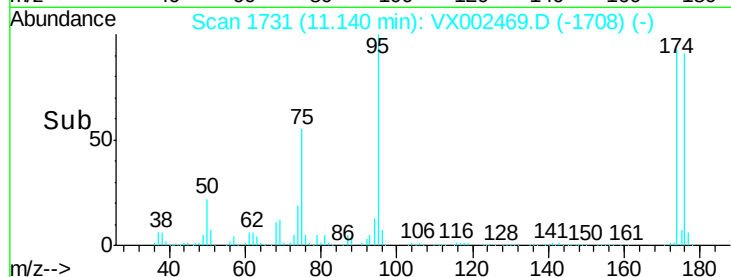
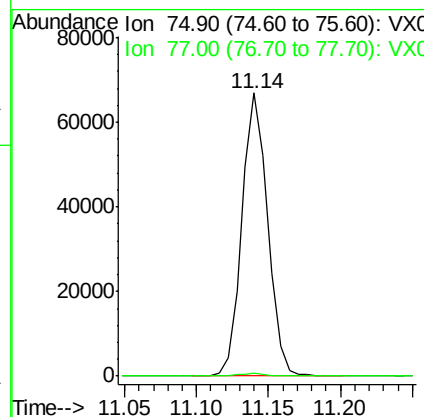
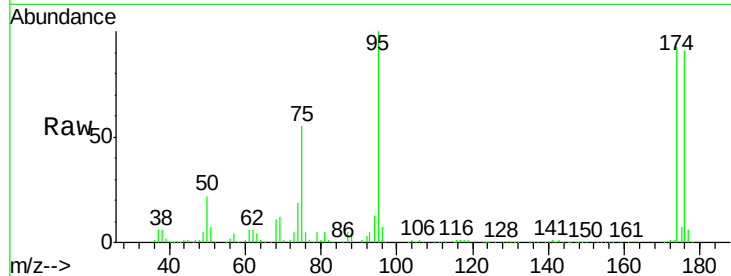




#76
 1,2,3-Trichloropropane
 Concen: 28.84 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002469.D
 Acq: 12 Jun 2018 16:24

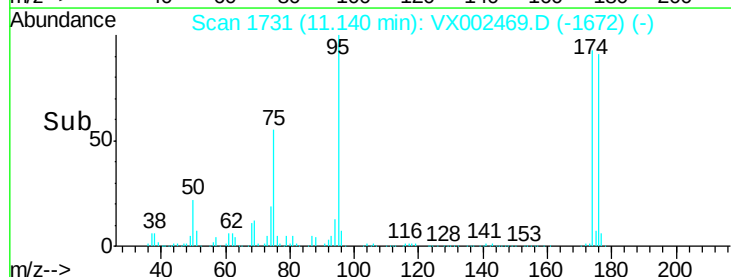
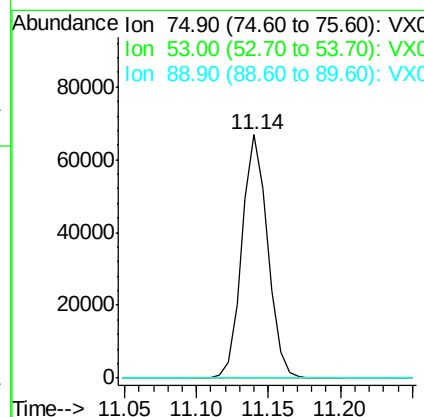
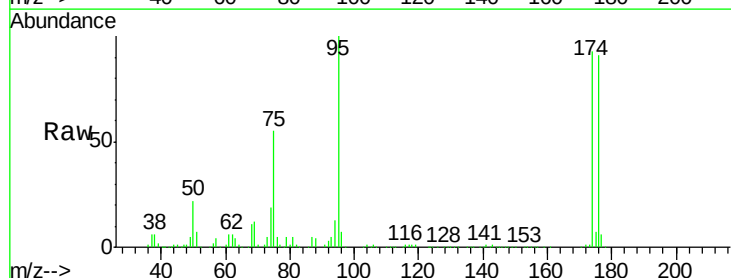
Instrument :
 MSVOA_X
 ClientSampleId :

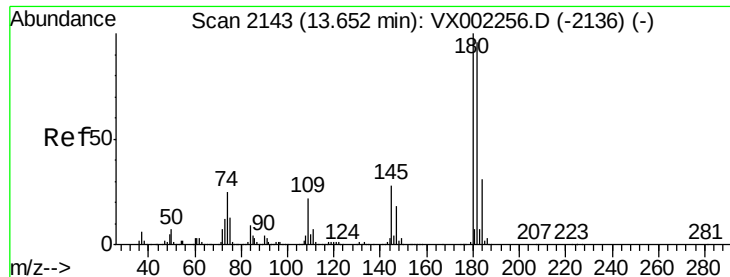
Tot Ion: 75 Resp: 83314
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 101.11 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002469.D
 Acq: 12 Jun 2018 16:24

Tgt Ion: 75 Resp: 83314
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.8 130.2#
 89 0.0 38.2 57.2#

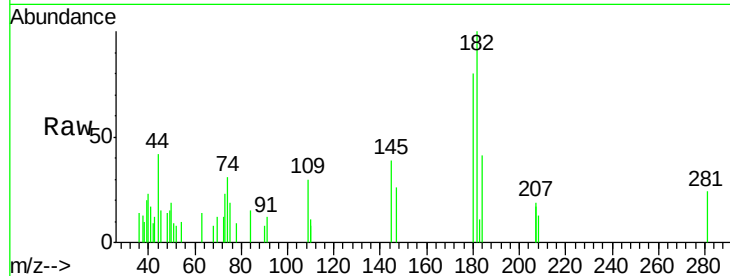




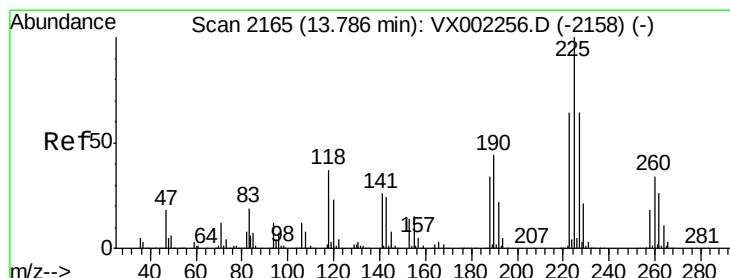
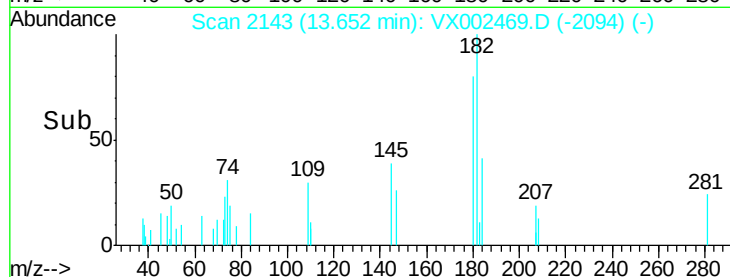
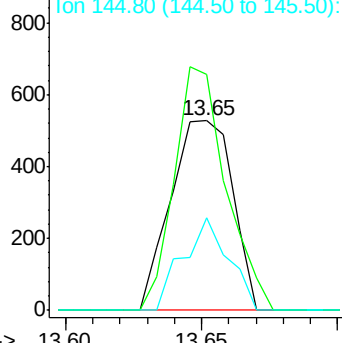
#93
 1,2,4-Trichlorobenzene
 Concen: 0.25 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VX002469.D
 Acq: 12 Jun 2018 16:24

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:180 Resp: 830
 Ion Ratio Lower Upper
 180 100
 182 107.6 47.7 143.1
 145 36.1 14.1 42.4

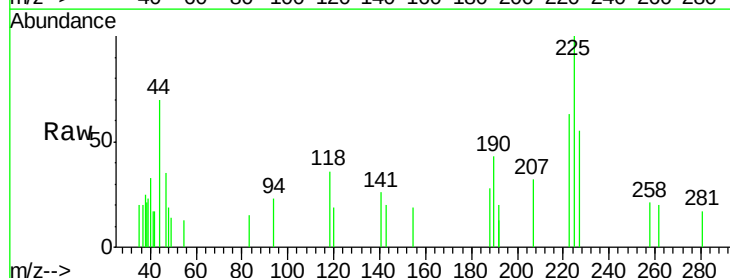


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

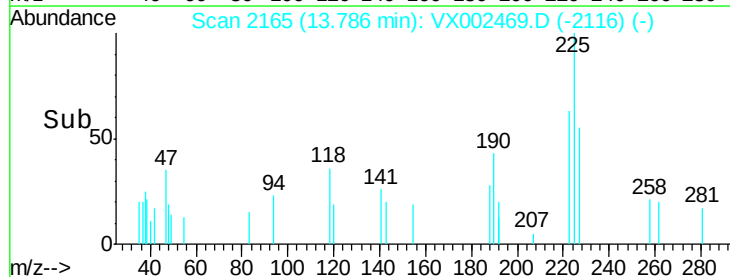
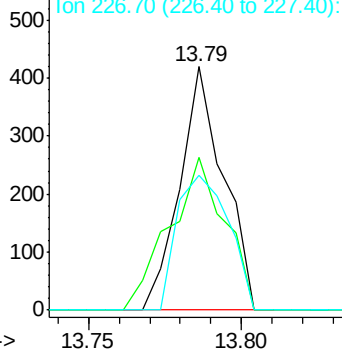


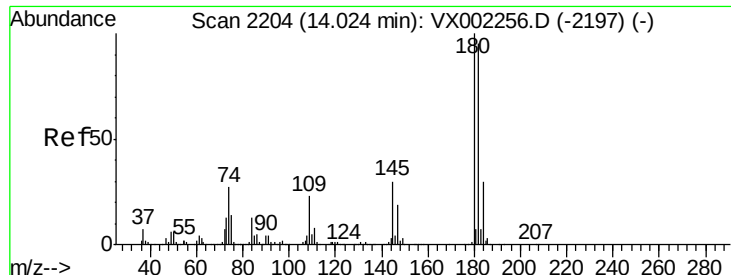
#94
 Hexachlorobutadiene
 Concen: 0.25 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. -0.00 min
 Lab File: VX002469.D
 Acq: 12 Jun 2018 16:24

Tgt Ion:225 Resp: 416
 Ion Ratio Lower Upper
 225 100
 223 79.6 31.6 95.0
 227 65.4 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.24 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. -0.00 min
 Lab File: VX002469.D
 Acq: 12 Jun 2018 16:24

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	79.9	48.0	144.0
145	34.9	14.8	44.3

