

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061218\
 Data File : VX002487.D
 Acq On : 13 Jun 2018 01:18
 Operator : JC/MD
 Sample : J3444-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 03:30:53 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	206541	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	300567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	280526	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	162538	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	147592	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
35) Dibromofluoromethane	5.51	113	108712	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	
50) Toluene-d8	8.72	98	434072	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
62) 4-Bromofluorobenzene	11.14	95	153075	43.82	ug/l	0.00
Spiked Amount			Recovery	=	87.64%	

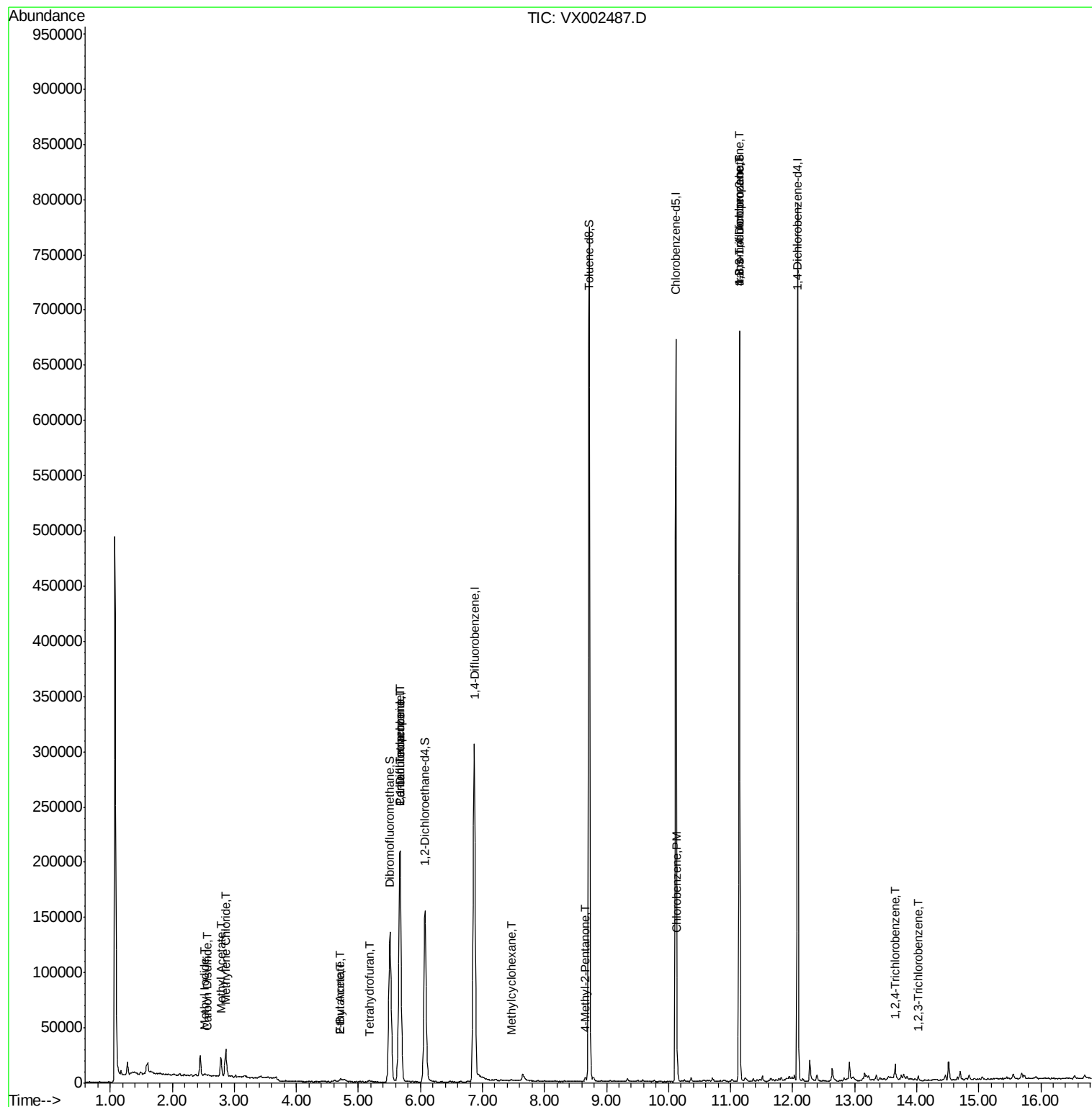
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	484	Below Cal		91
5) Bromomethane	1.65	94	682	Below Cal		87
8) Diethyl Ether	1.95	74	83	Below Cal		93
10) Methyl Iodide	2.52	142	2258	0.72 ug/l	#	93
11) Tert butyl alcohol	3.08	59	440	Below Cal	#	1
13) Acrolein	2.28	56	344	Below Cal	#	36
15) Acrylonitrile	3.14	53	813	Below Cal	#	75
16) Acetone	2.45	43	20212	Below Cal		99
17) Carbon Disulfide	2.57	76	1264	0.22 ug/l		100
18) Methyl Acetate	2.78	43	20283	4.39 ug/l		97
19) Methyl tert-butyl Ether	3.21	73	179	Below Cal	#	1
20) Methylene Chloride	2.86	84	11415	2.25 ug/l		96
22) Diisopropyl ether	3.90	45	182	Below Cal	#	43
25) 2-Butanone	4.71	43	5156	2.55 ug/l		98
28) Bromochloromethane	5.03	49	60	Below Cal	#	91
29) Tetrahydrofuran	5.17	42	1296	0.99 ug/l	#	75
36) 1,1-Dichloropropene	5.67	75	14915	4.72 ug/l	#	52
37) Ethyl Acetate	4.71	43	5156	1.36 ug/l	#	72
38) Carbon Tetrachloride	5.67	117	19111	5.78 ug/l	#	15
39) Methylcyclohexane	7.47	83	246	0.33 ug/l	#	64
51) 4-Methyl-2-Pentanone	8.65	43	2468	0.61 ug/l	#	87
65) Chlorobenzene	10.14	112	2397	0.34 ug/l		89
76) 1,2,3-Trichloropropane	11.14	75	84396	23.66 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84396	82.95 ug/l	#	7
93) 1,2,4-Trichlorobenzene	13.65	180	1248	0.30 ug/l		91
96) 1,2,3-Trichlorobenzene	14.02	180	901	0.21 ug/l		97

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

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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jun 13 03:30:53 2018
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: VX002487.D

Acq: 13 Jun 2018 01:18

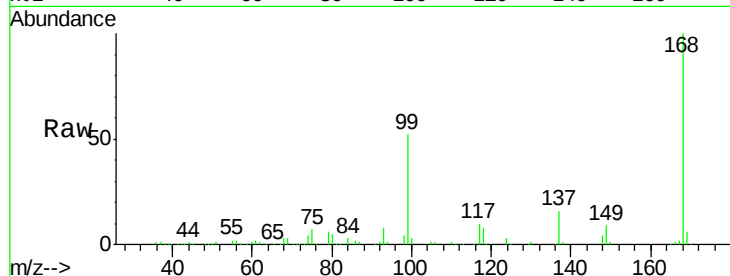
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 206541

Ion Ratio Lower Upper

168 100

99 51.9 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

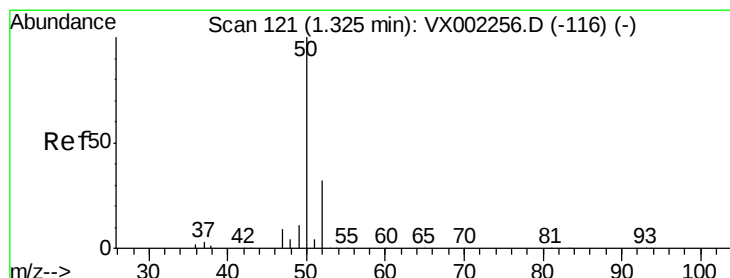
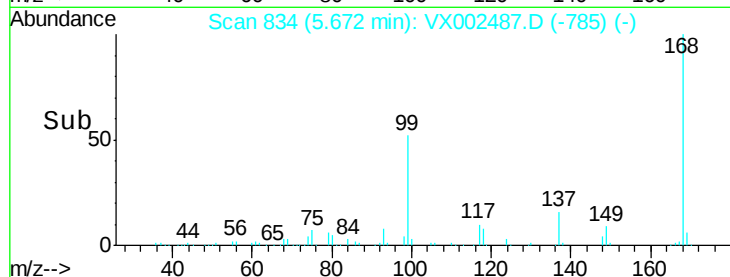
60000

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: VX002487.D

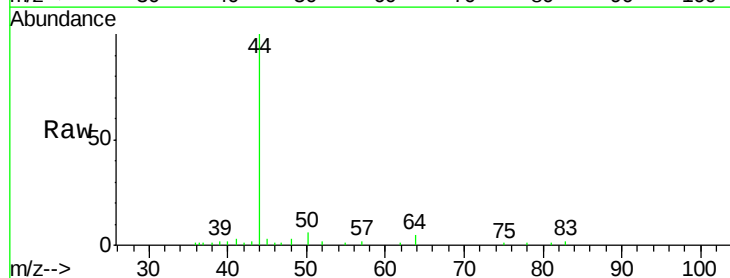
Acq: 13 Jun 2018 01:18

Tgt Ion: 50 Resp: 484

Ion Ratio Lower Upper

50 100

52 27.2 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

400

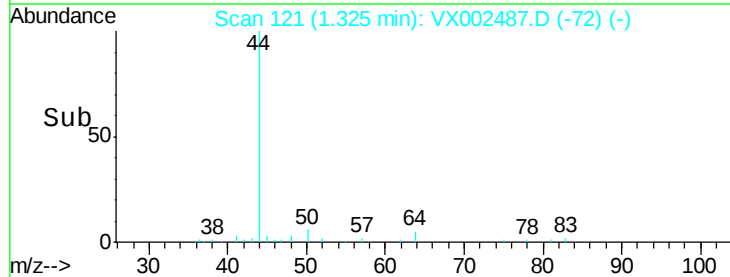
300

200

100

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

Instrument :

MSVOA_X

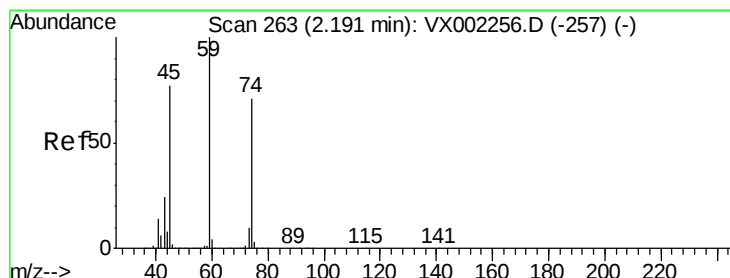
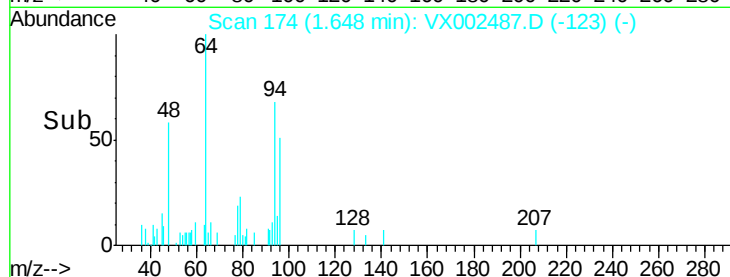
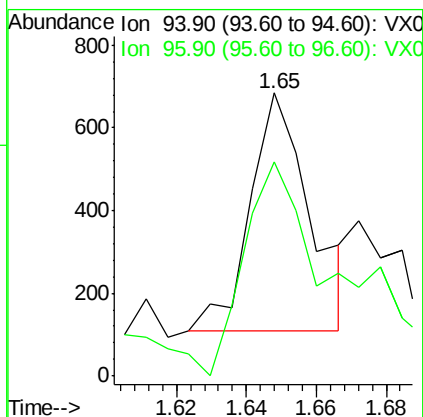
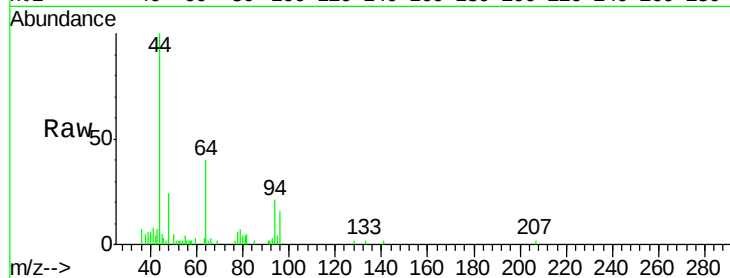
ClientSampleId :

Tot Ion: 94 Resp: 682

Ion Ratio Lower Upper

94 100

96 80.9 74.9 112.3



#8

Diethyl Ether

Concen: Below Cal

RT: 1.95 min Scan# 223

Delta R.T. -0.24 min

Lab File: VX002487.D

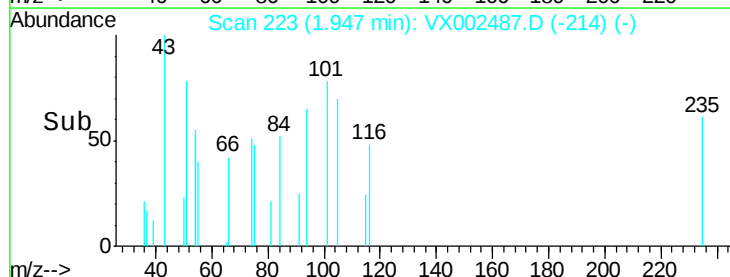
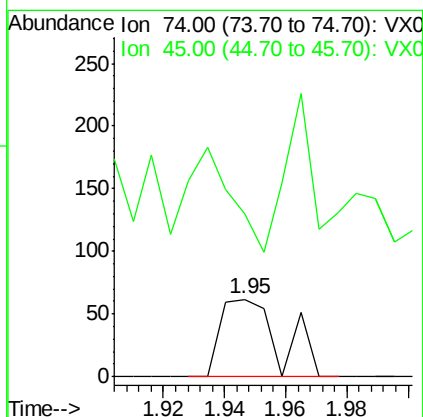
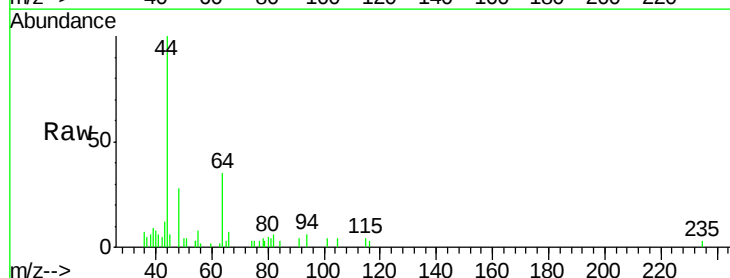
Acq: 13 Jun 2018 01:18

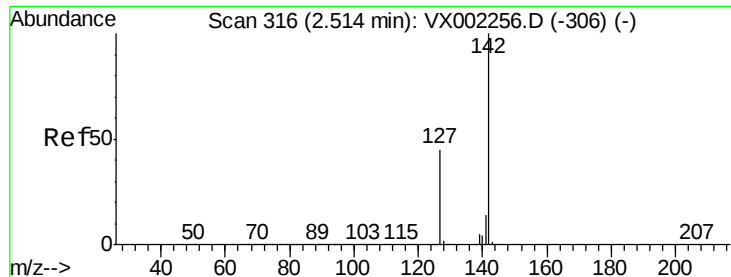
Tgt Ion: 74 Resp: 83

Ion Ratio Lower Upper

74 100

45 98.8 53.1 159.4

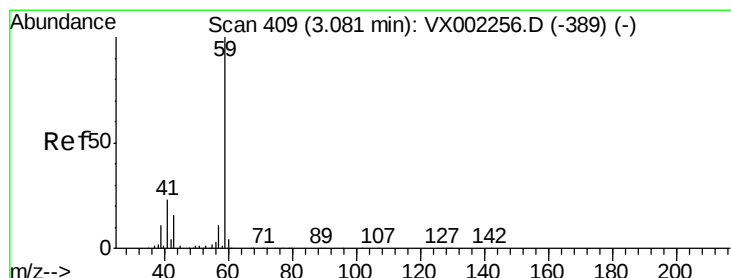
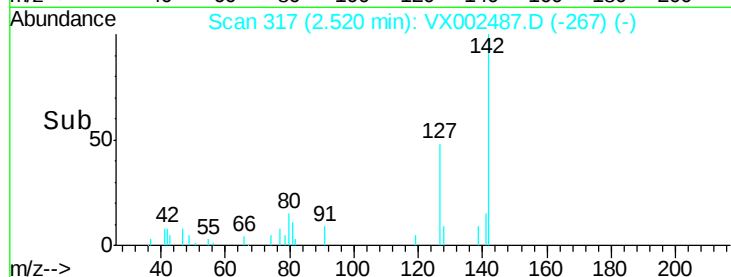
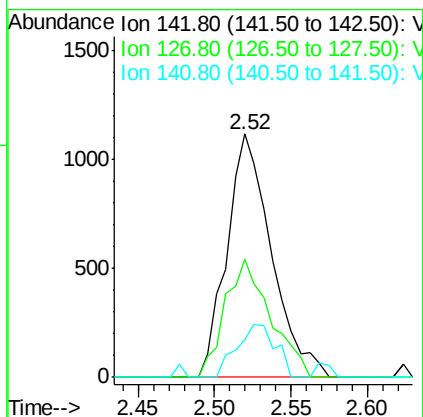
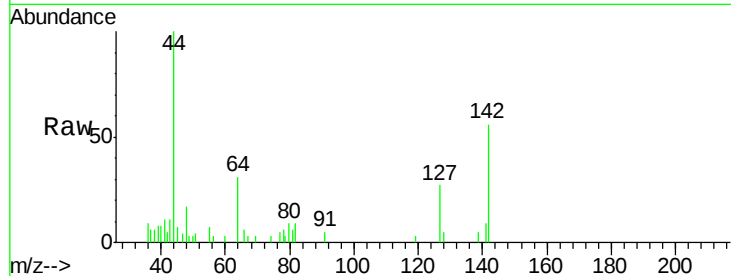




#10
Methvl Iodide
Concen: 0.72 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

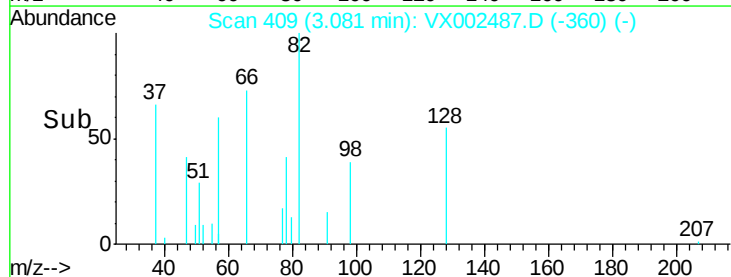
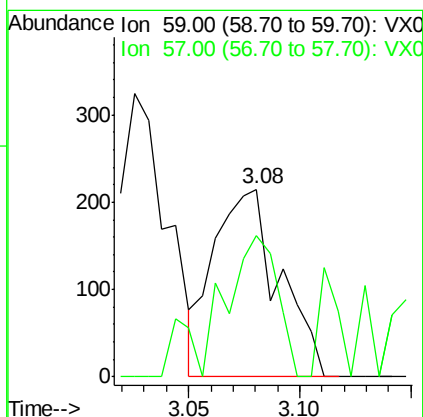
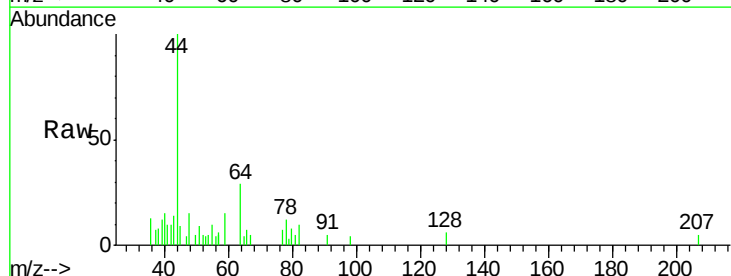
Instrument :
MSVOA_X
ClientSampled :

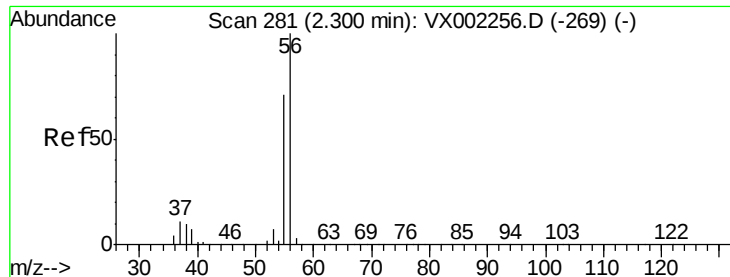
Tot Ion:142 Resp: 2258
Ion Ratio Lower Upper
142 100
127 49.4 36.6 55.0
141 18.8 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

Tgt Ion: 59 Resp: 440
Ion Ratio Lower Upper
59 100
57 57.5 8.2 12.2#

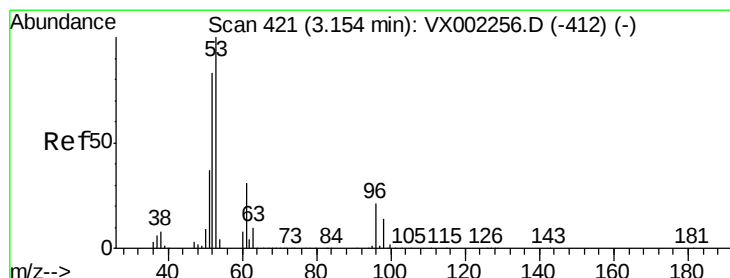
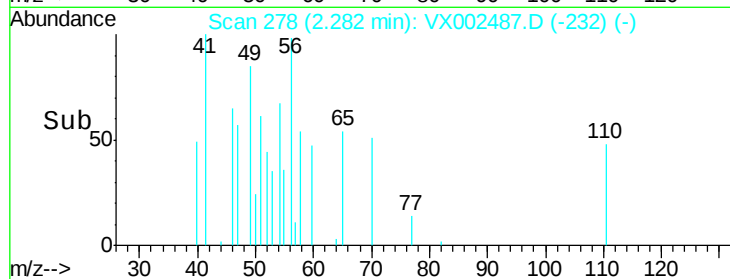
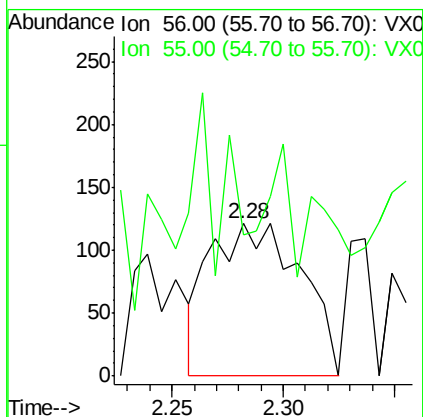
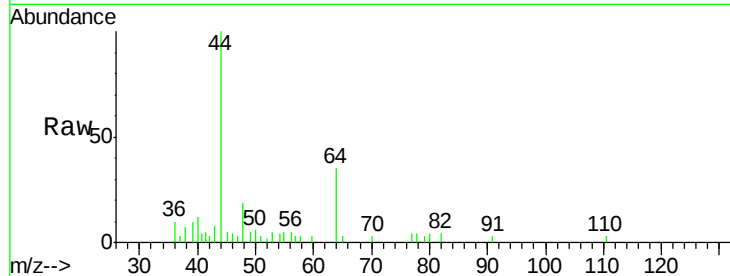




#13
Acrolein
Concen: Below Cal
RT: 2.28 min Scan# 278
Delta R.T. -0.02 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

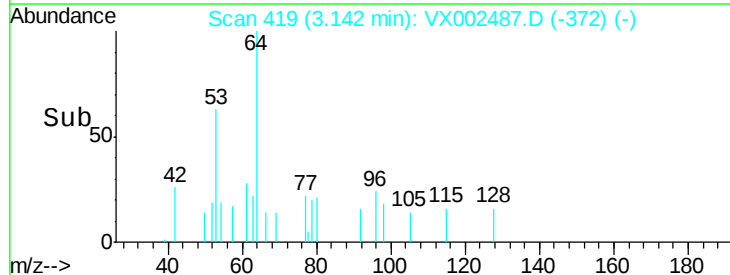
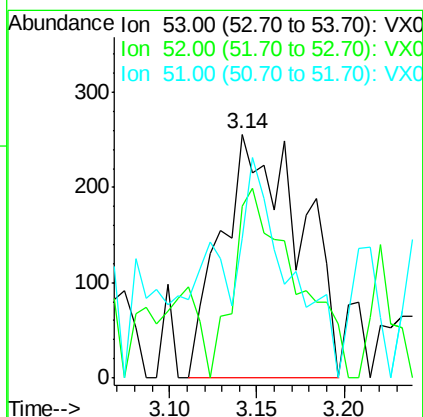
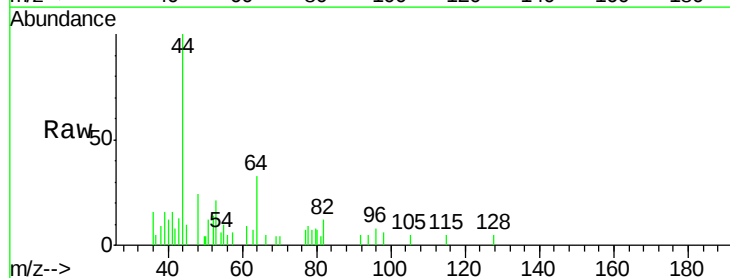
Instrument :
MSVOA_X
ClientSampled :

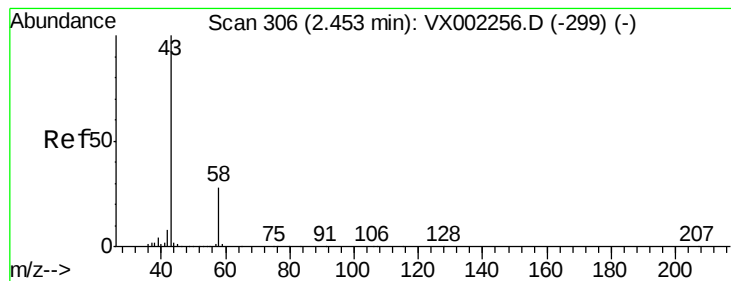
Tot Ion: 56 Resp: 344
Ion Ratio Lower Upper
56 100
55 18.3 57.0 85.4#



#15
Acrylonitrile
Concen: Below Cal
RT: 3.14 min Scan# 419
Delta R.T. -0.01 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

Tgt Ion: 53 Resp: 813
Ion Ratio Lower Upper
53 100
52 60.5 66.7 100.1#
51 51.9 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

Instrument :

MSVOA_X

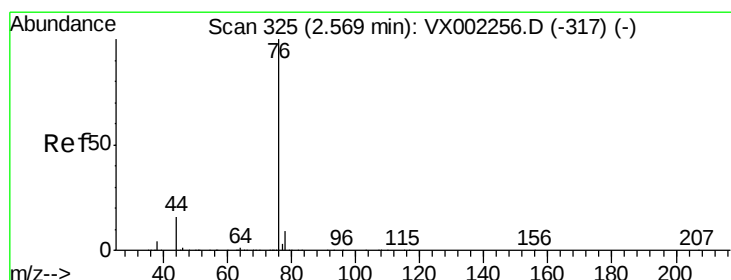
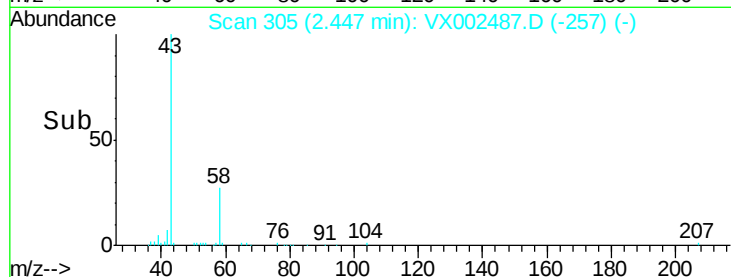
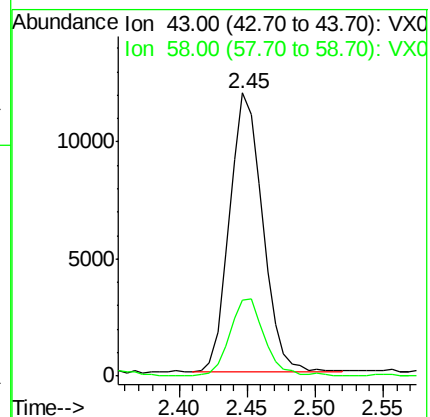
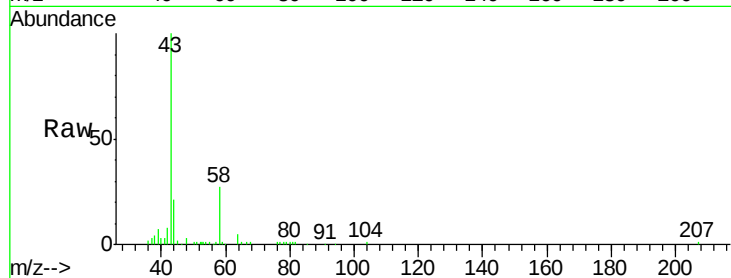
ClientSampled :

Tot Ion: 43 Resp: 20212

Ion Ratio Lower Upper

43 100

58 27.2 22.1 33.1



#17

Carbon Disulfide

Concen: 0.22 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002487.D

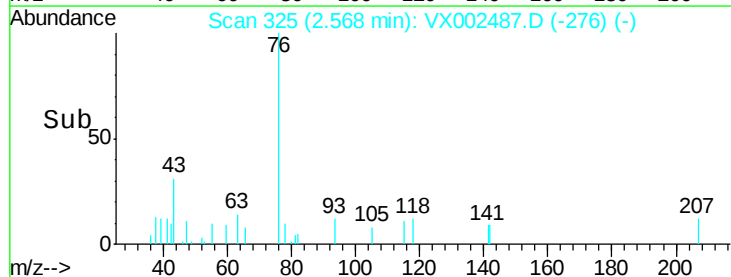
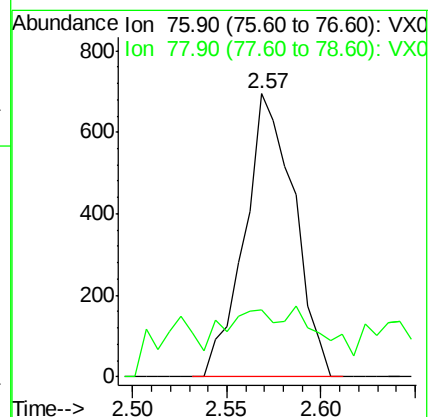
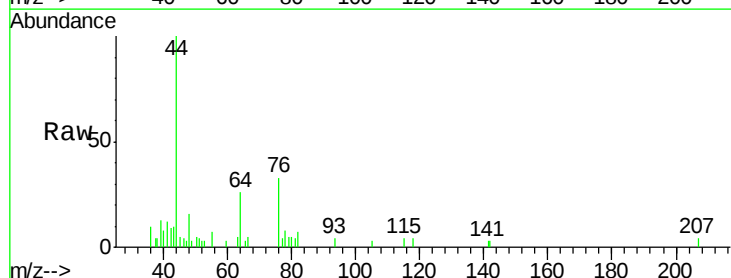
Acq: 13 Jun 2018 01:18

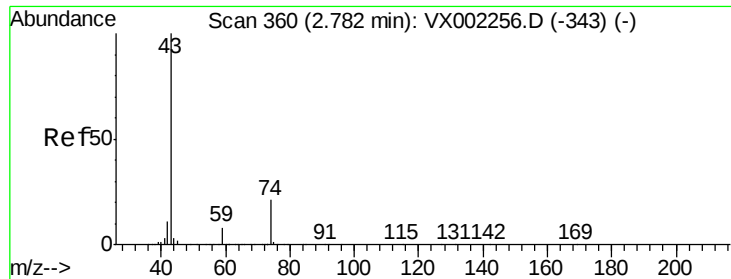
Tgt Ion: 76 Resp: 1264

Ion Ratio Lower Upper

76 100

78 8.5 6.9 10.3

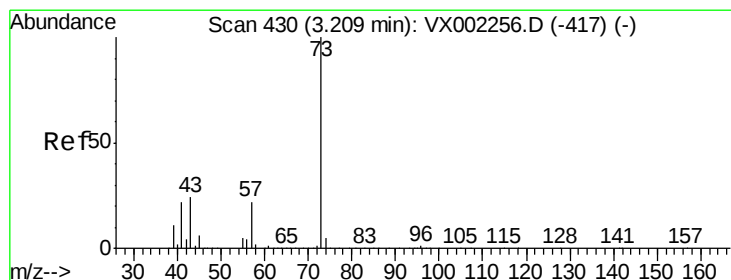
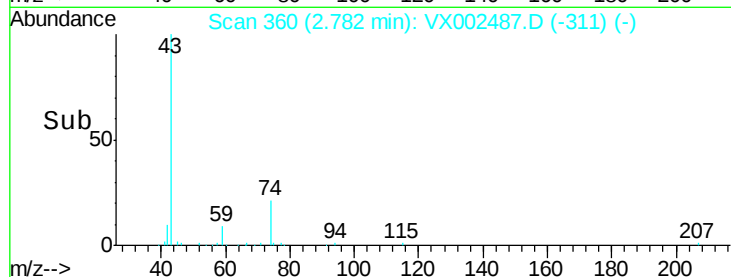
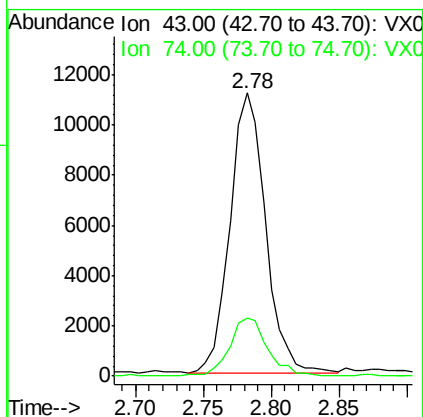
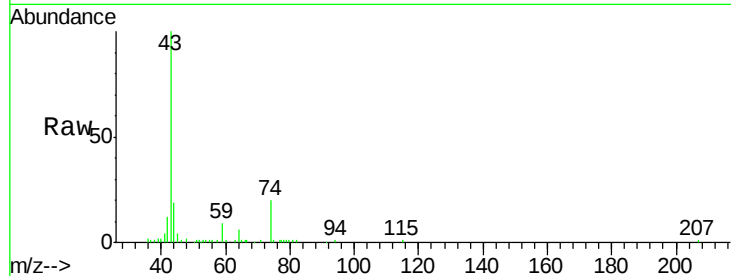




#18
Methyl Acetate
Concen: 4.39 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

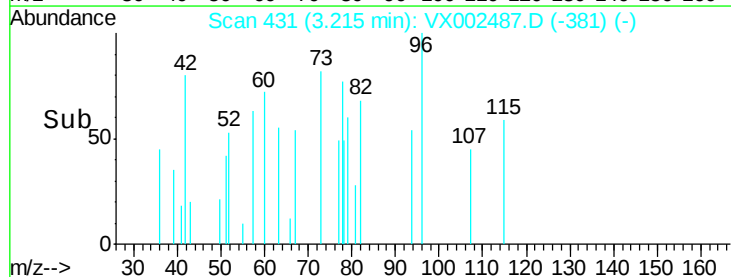
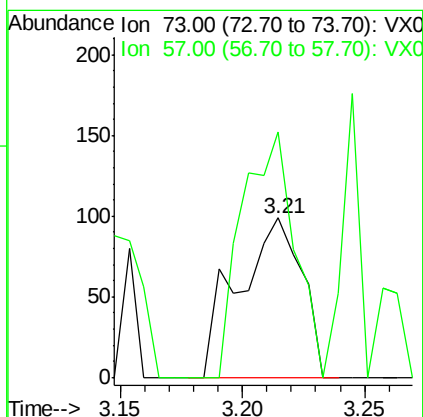
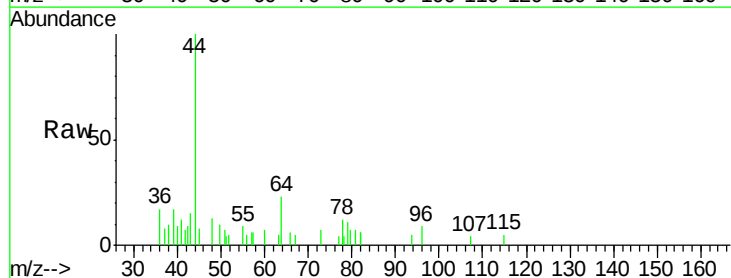
Instrument :
MSVOA_X
ClientSampled :

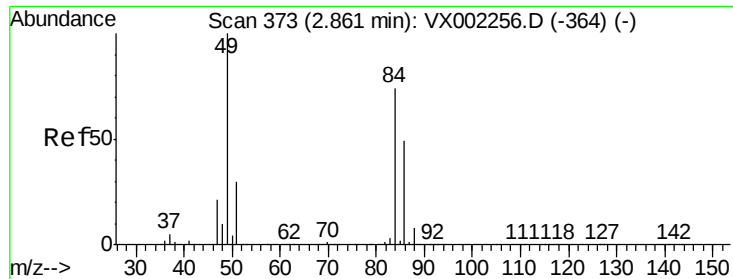
Tot Ion: 43 Resp: 20283
Ion Ratio Lower Upper
43 100
74 22.3 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

Tgt Ion: 73 Resp: 179
Ion Ratio Lower Upper
73 100
57 153.5 17.7 26.5#

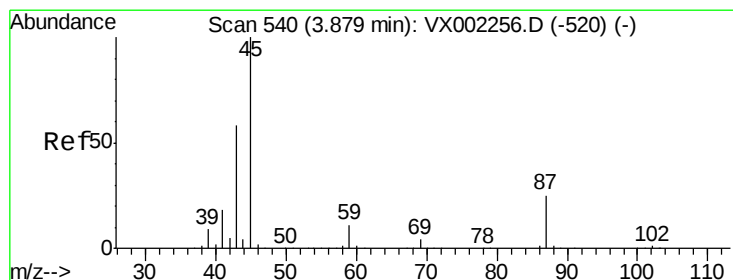
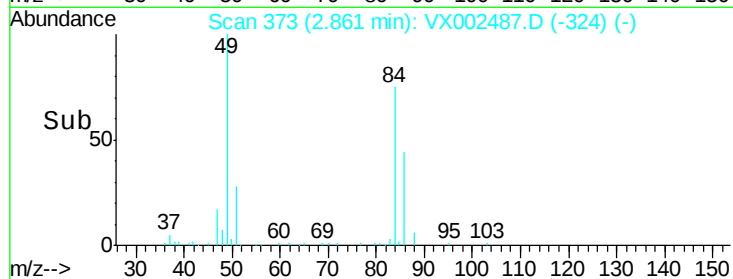
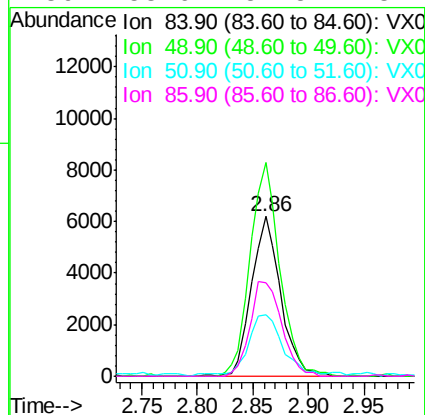
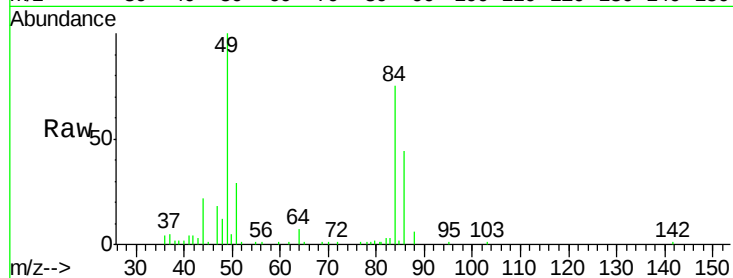




#20
Methvlene Chloride
Concen: 2.25 ua/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

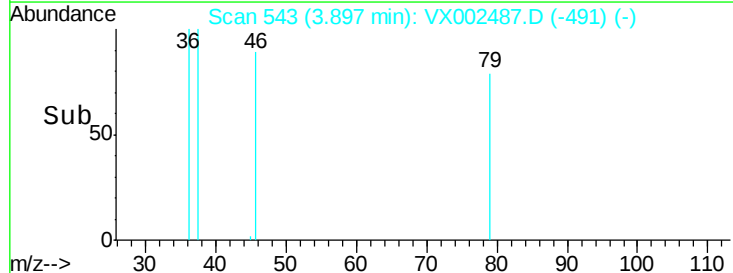
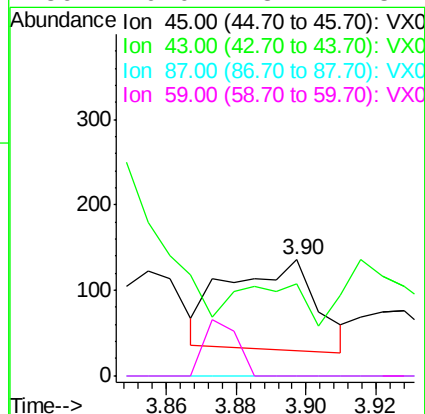
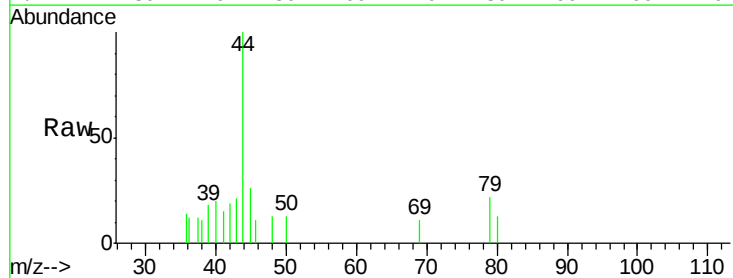
Instrument :
MSVOA_X
ClientSampled :

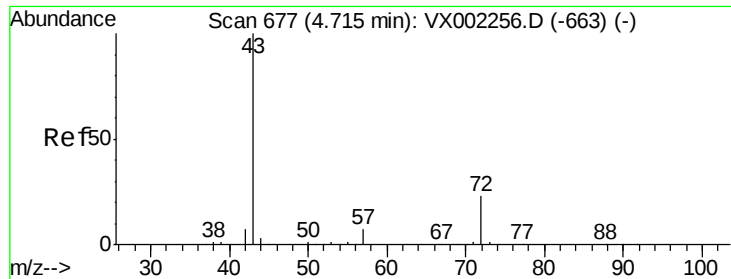
Tot Ion:	84	Resp:	11415
Ion	Ratio	Lower	Upper
84	100		
49	133.8	107.8	161.6
51	38.5	32.8	49.2
86	58.6	52.5	78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.90 min Scan# 543
Delta R.T. 0.02 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

Tgt Ion:	45	Resp:	182
Ion	Ratio	Lower	Upper
45	100		
43	9.8	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#





#25

2-Butanone

Concen: 2.55 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

Instrument :

MSVOA_X

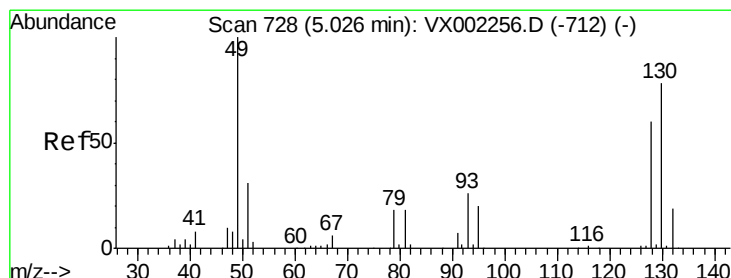
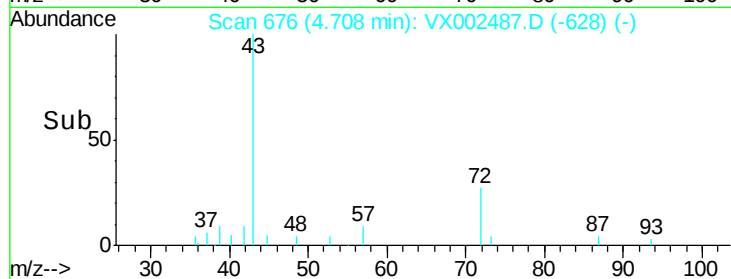
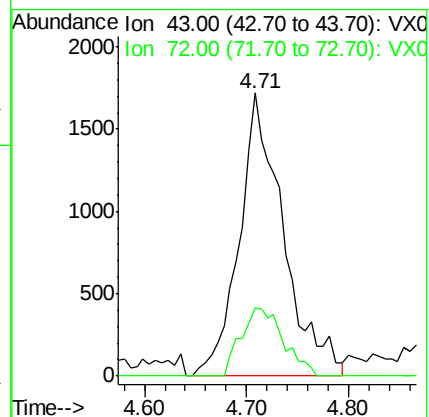
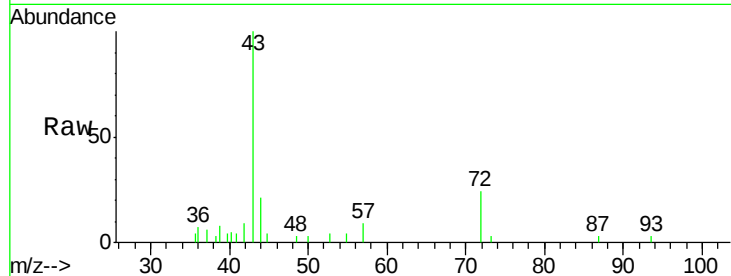
ClientSampleId :

Tot Ion: 43 Resp: 5156

Ion Ratio Lower Upper

43 100

72 24.2 18.5 27.7



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

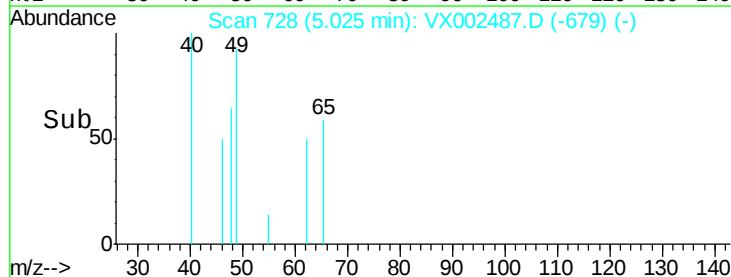
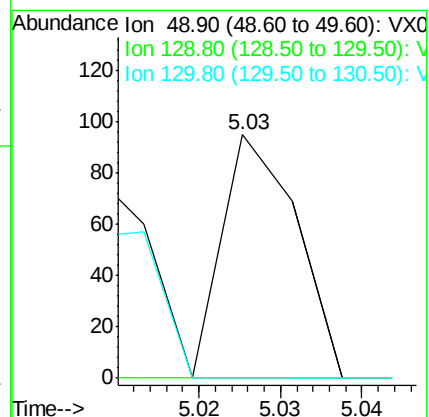
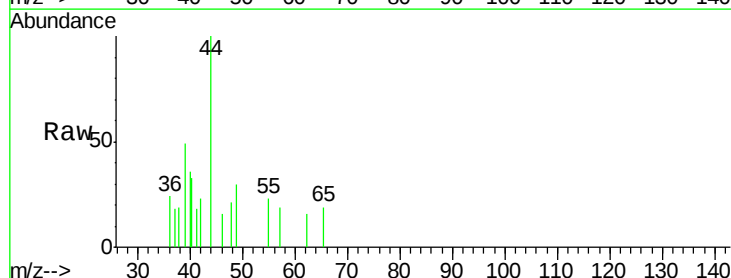
Tgt Ion: 49 Resp: 60

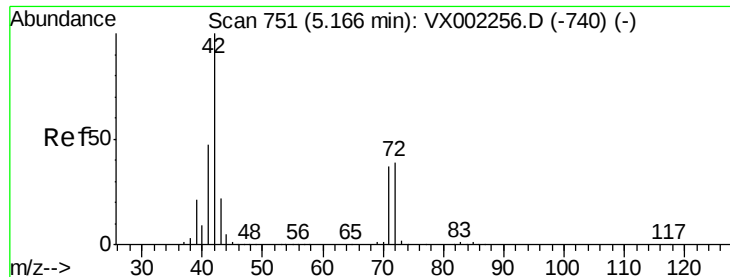
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 68.3 61.2 91.8

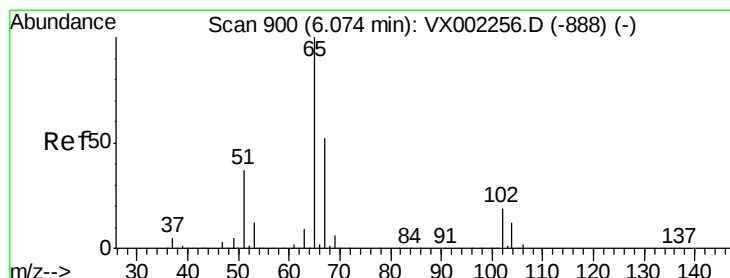
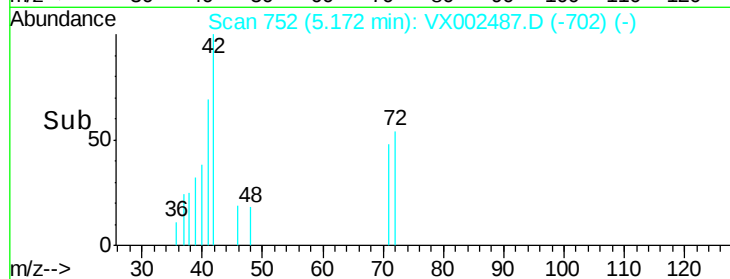
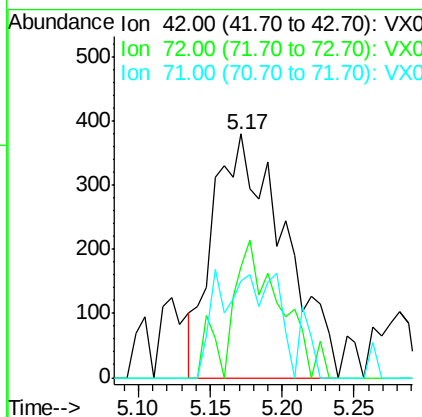
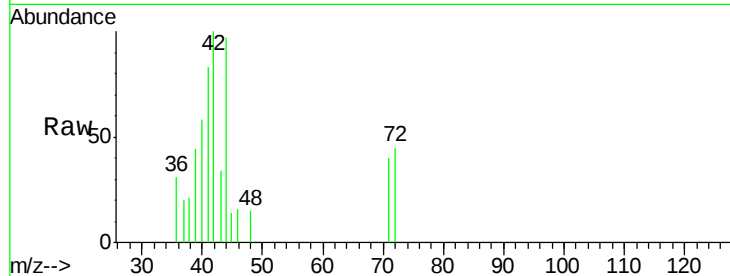




#29
Tetrahydrofuran
Concen: 0.99 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

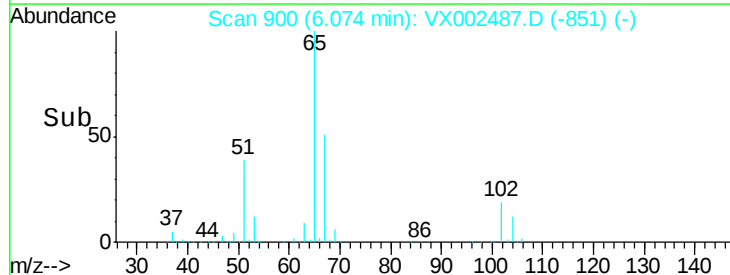
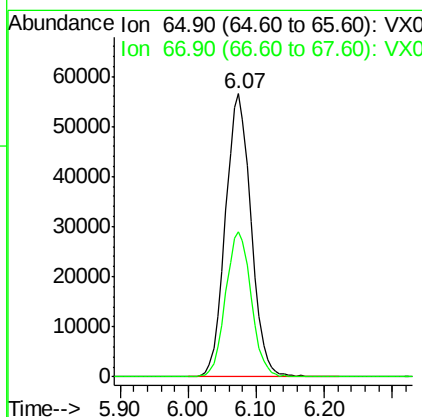
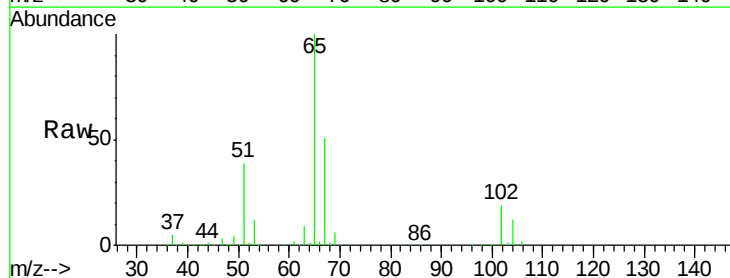
Instrument :
MSVOA_X
ClientSampled :

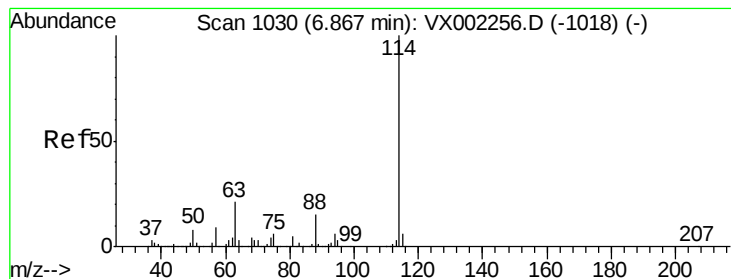
Tot Ion: 42 Resp: 1296
Ion Ratio Lower Upper
42 100
72 35.4 32.0 48.0
71 11.9 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 49.97 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

Tgt Ion: 65 Resp: 147592
Ion Ratio Lower Upper
65 100
67 51.2 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: VX002487.D

Acq: 13 Jun 2018 01:18

Instrument :
MSVOA_X
ClientSampleId :

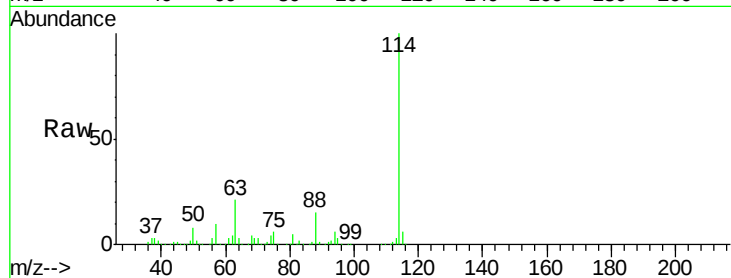
Tot Ion:114 Resp: 300567

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.4

88 14.9 0.0 30.0



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

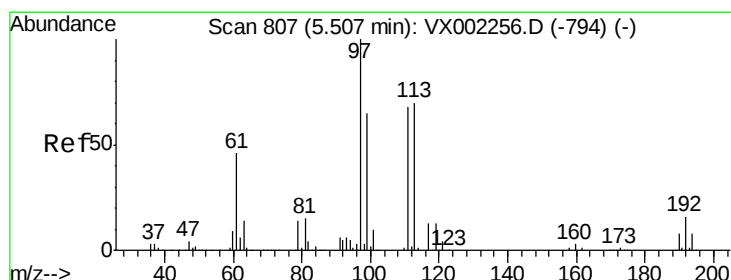
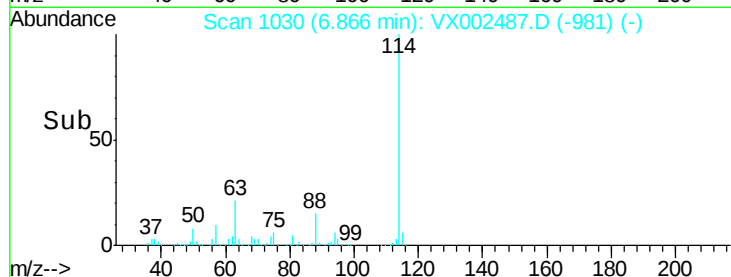
50000

0

6.87

6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 45.99 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

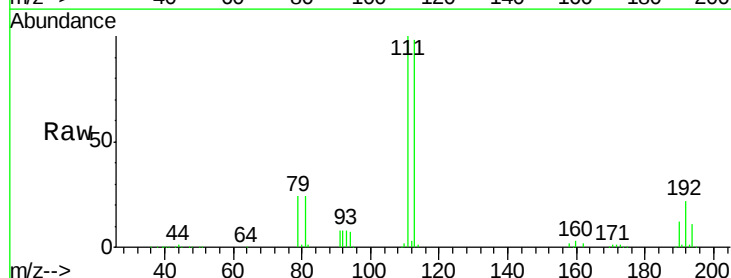
Tgt Ion:113 Resp: 108712

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

192 22.7 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

50000

40000

30000

20000

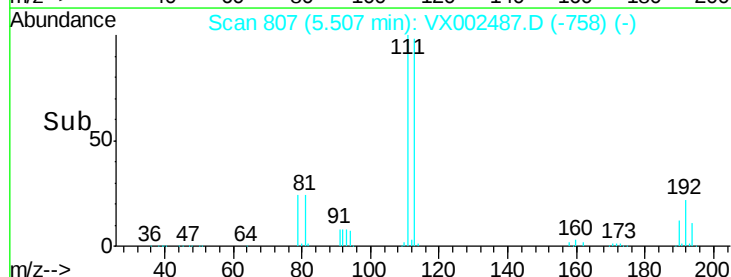
10000

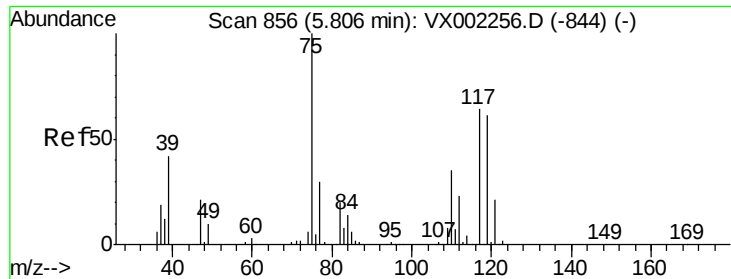
0

5.51

5.40 5.50 5.60

Time-->

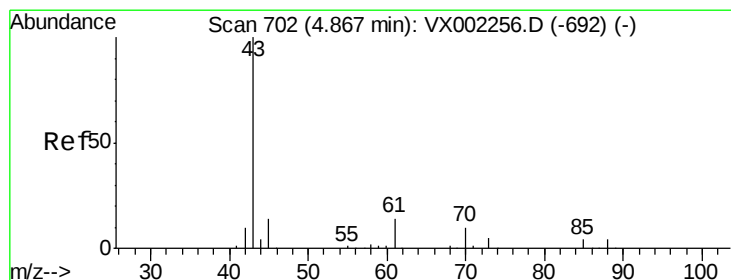
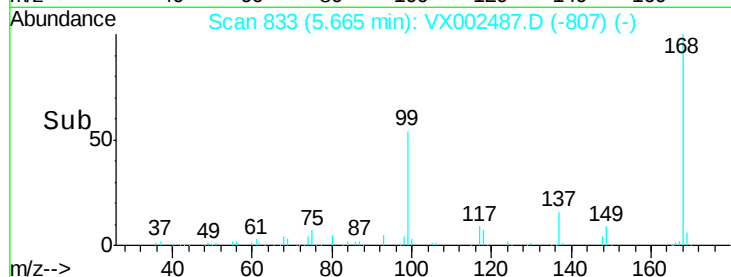
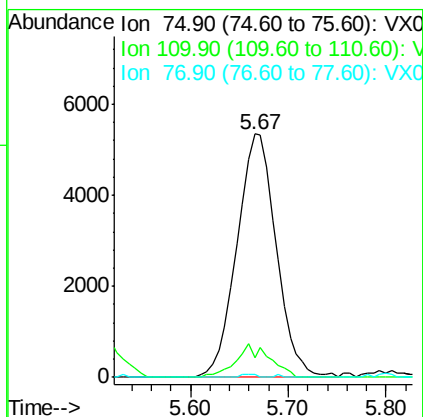
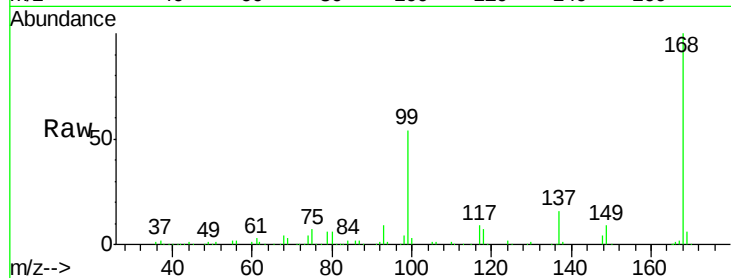




#36
 1,1-Dichloropropene
 Concen: 4.72 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002487.D
 Acq: 13 Jun 2018 01:18

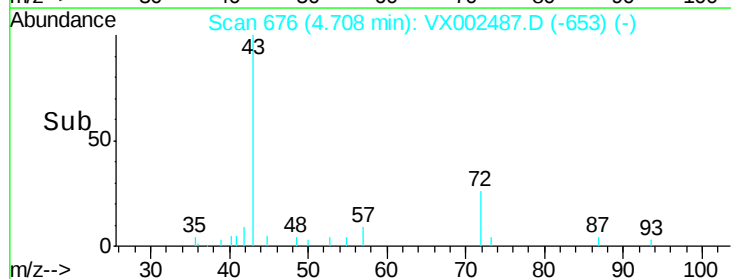
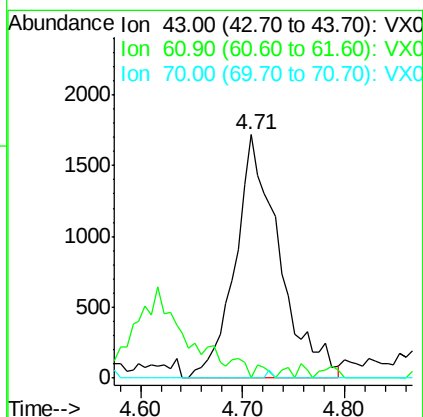
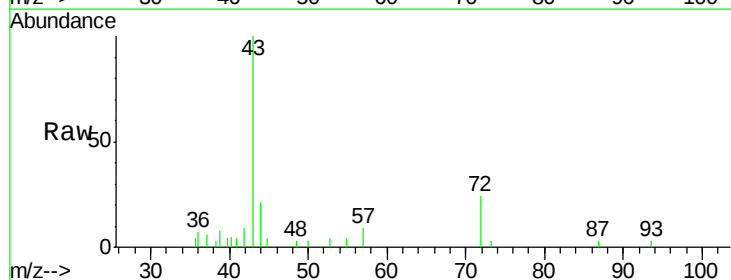
Instrument :
 MSVOA_X
 ClientSampleId :

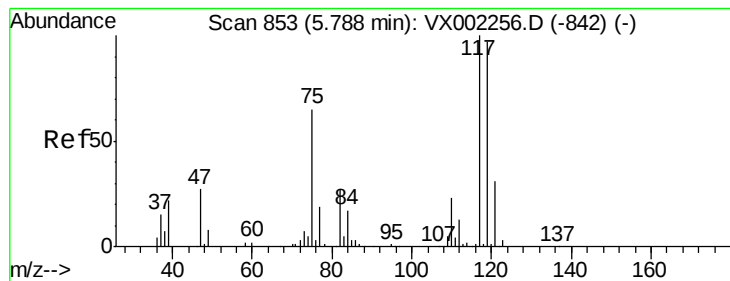
Tot Ion: 75 Resp: 14915
 Ion Ratio Lower Upper
 75 100
 110 11.7 18.1 54.4#
 77 0.5 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 1.36 ug/l
 RT: 4.71 min Scan# 676
 Delta R.T. -0.16 min
 Lab File: VX002487.D
 Acq: 13 Jun 2018 01:18

Tgt Ion: 43 Resp: 5156
 Ion Ratio Lower Upper
 43 100
 61 1.5 10.4 15.6#
 70 0.0 7.6 11.4#





#38

Carbon Tetrachloride

Concen: 5.78 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

Instrument :
MSVOA_X
ClientSampled :

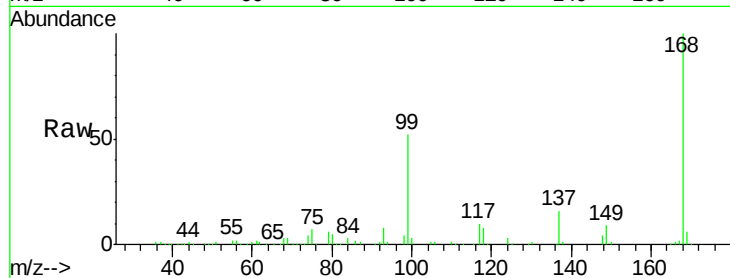
Tot Ion:117 Resp: 19111

Ion Ratio Lower Upper

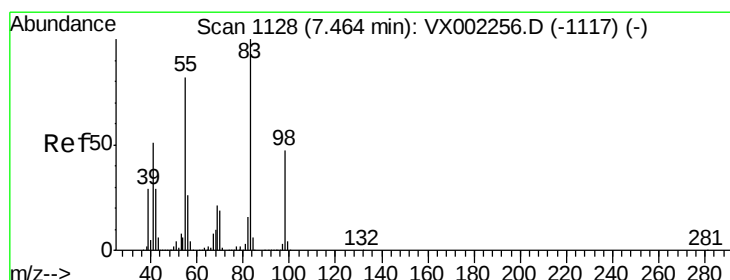
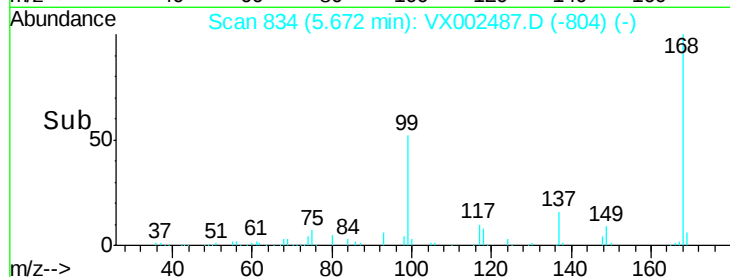
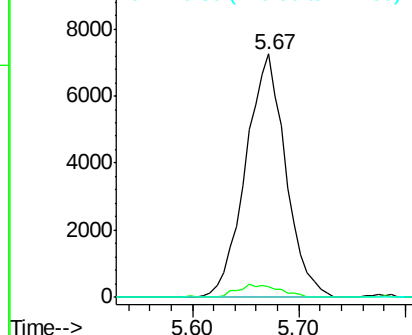
117 100

119 4.5 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: 0.33 ug/l

RT: 7.47 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

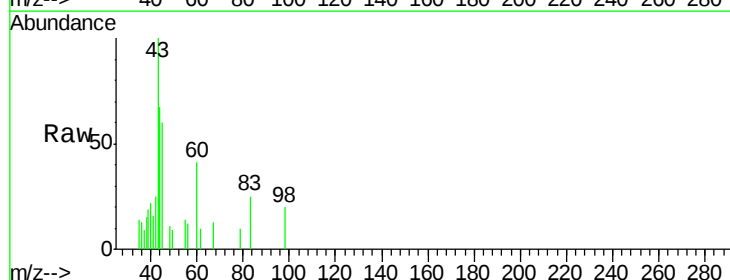
Tgt Ion: 83 Resp: 246

Ion Ratio Lower Upper

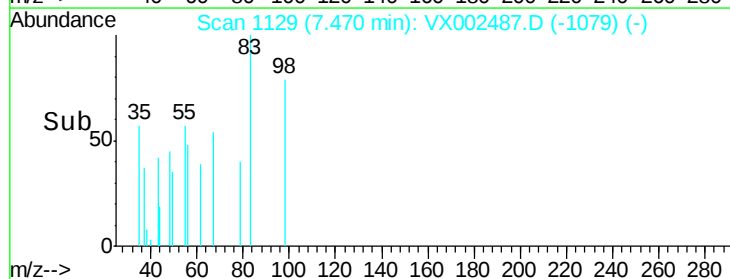
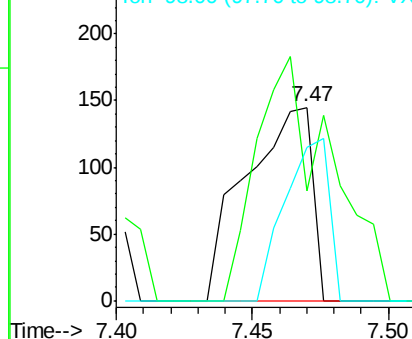
83 100

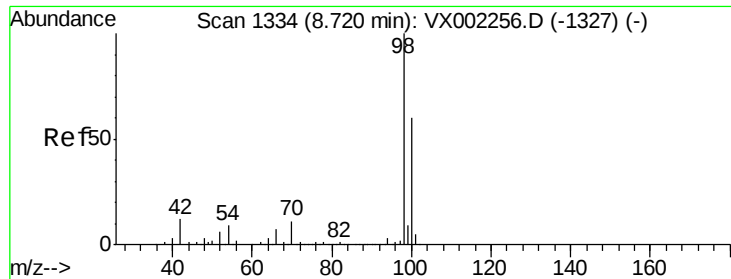
55 56.6 65.4 98.0#

98 79.3 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

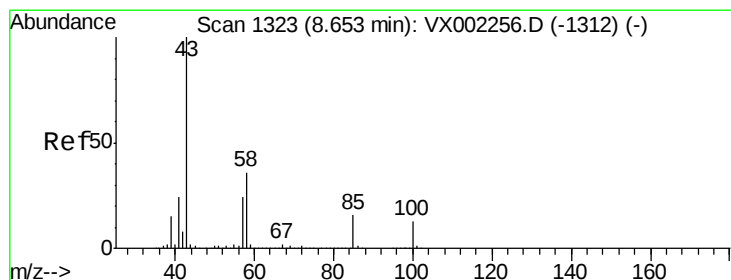
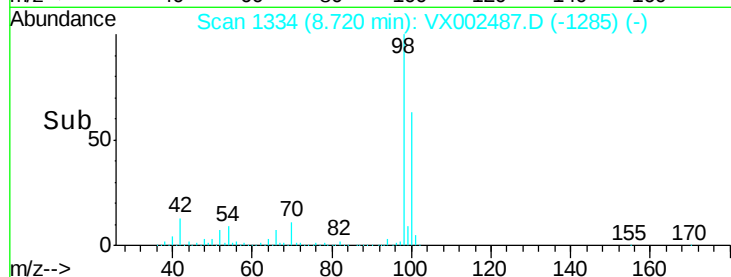
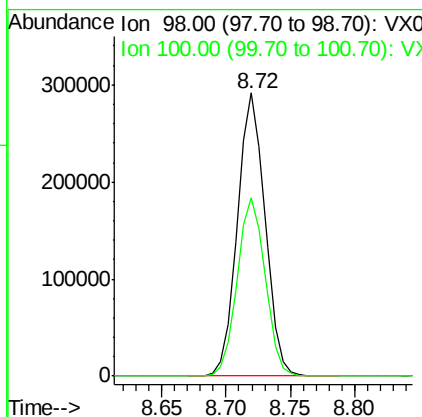
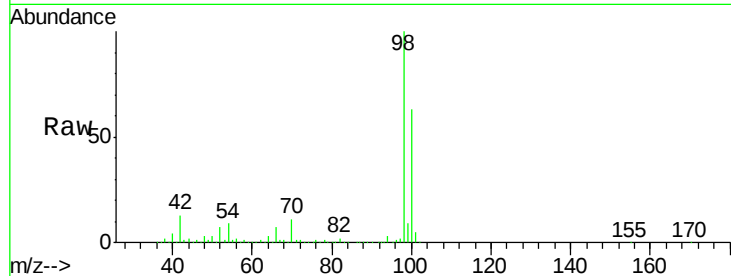




#50
Toluene-d8
Concen: 47.91 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

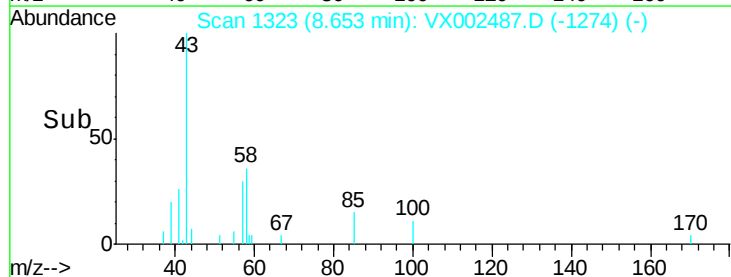
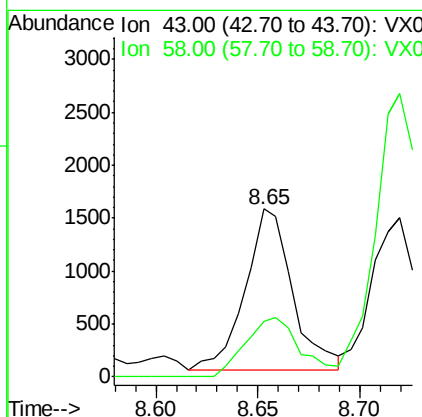
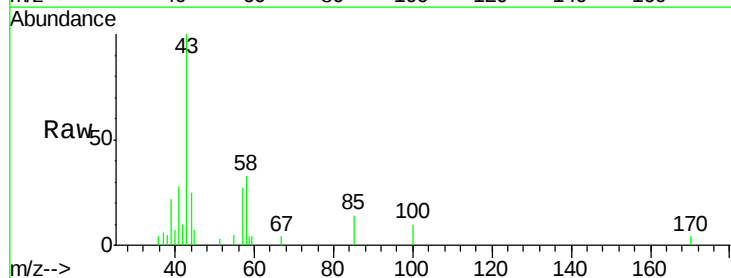
Instrument :
MSVOA_X
ClientSampled :

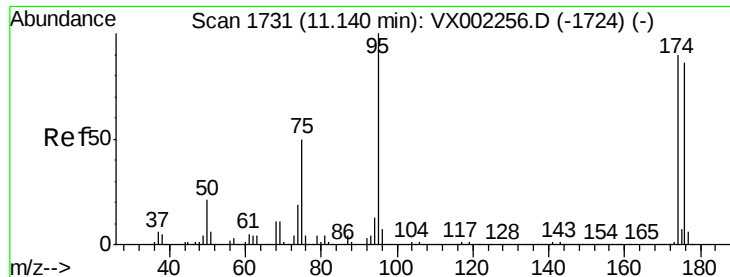
Tot Ion: 98 Resp: 434072
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.61 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

Tgt Ion: 43 Resp: 2468
Ion Ratio Lower Upper
43 100
58 43.0 28.6 42.8#

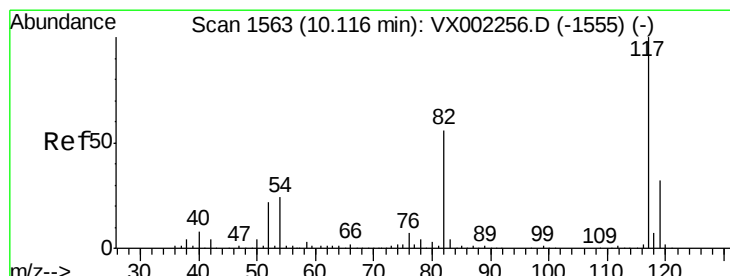
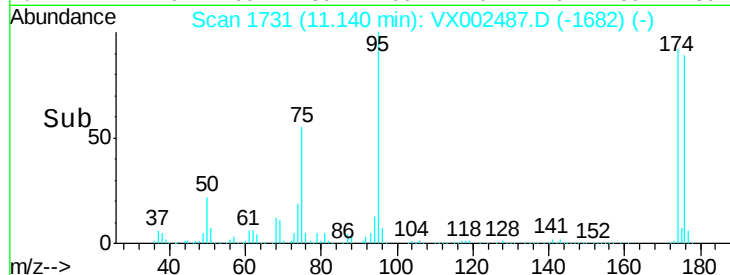
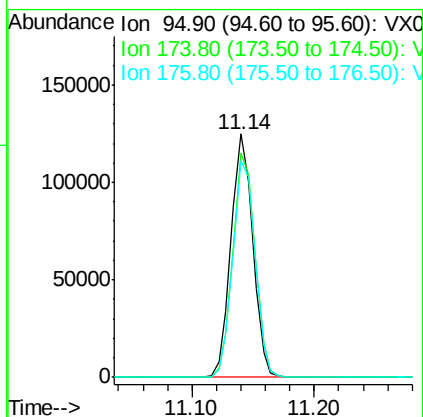
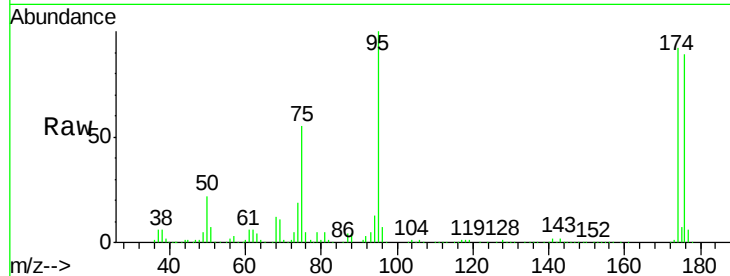




#62
4-Bromofluorobenzene
Concen: 43.82 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

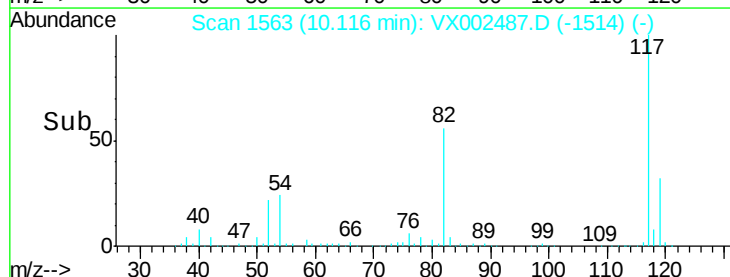
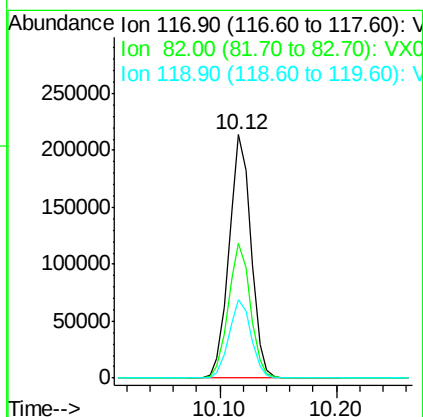
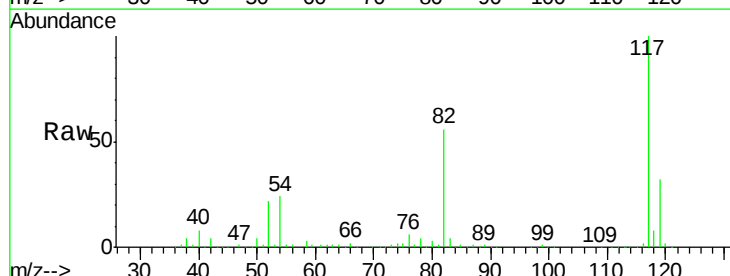
Instrument :
MSVOA_X
ClientSampleId :

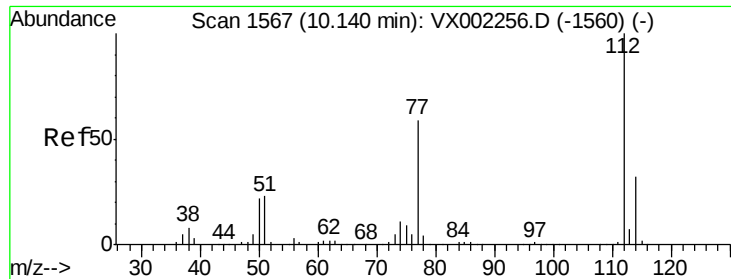
Tot Ion: 95 Resp: 153075
Ion Ratio Lower Upper
95 100
174 93.9 0.0 187.4
176 91.3 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002487.D
Acq: 13 Jun 2018 01:18

Tgt Ion: 117 Resp: 280526
Ion Ratio Lower Upper
117 100
82 55.6 45.0 67.4
119 32.0 25.8 38.6





#65

Chlorobenzene

Concen: 0.34 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

Instrument :

MSVOA_X

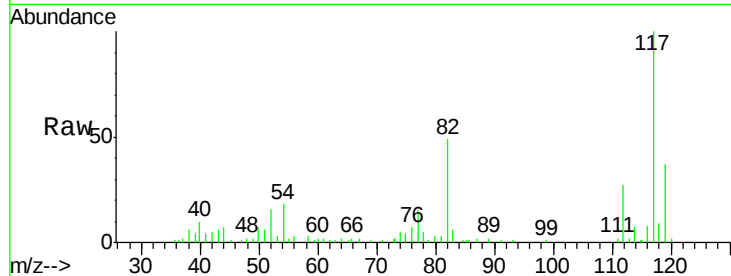
ClientSampleId :

Tot Ion:112 Resp: 2397

Ion Ratio Lower Upper

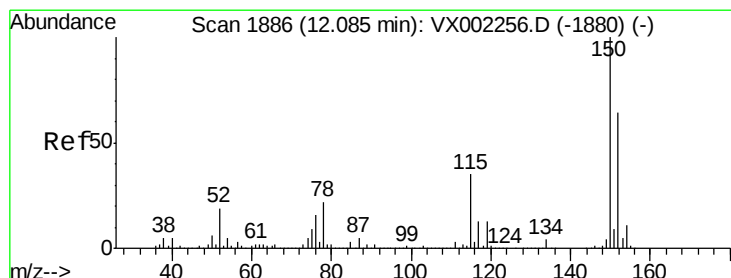
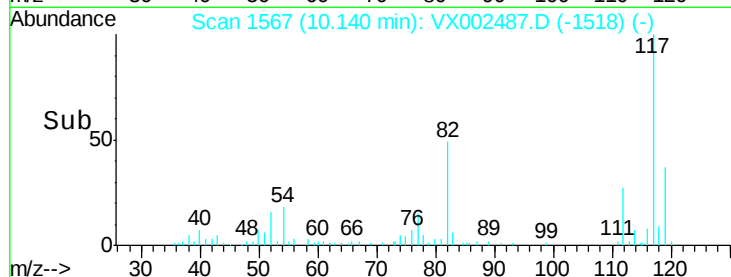
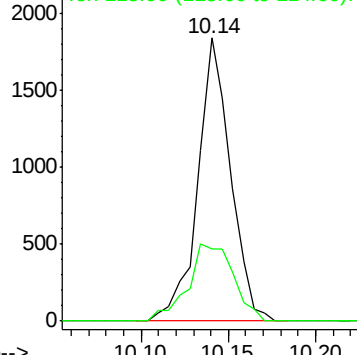
112 100

114 25.7 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

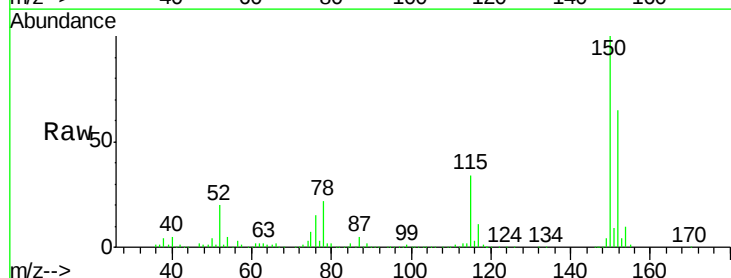
Tgt Ion:152 Resp: 162538

Ion Ratio Lower Upper

152 100

115 56.0 40.1 120.2

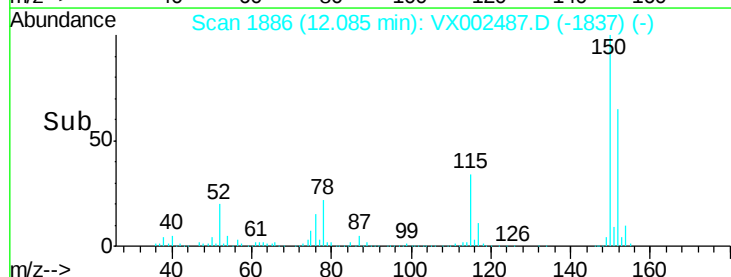
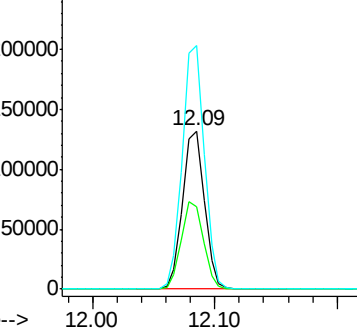
150 155.2 0.0 347.2

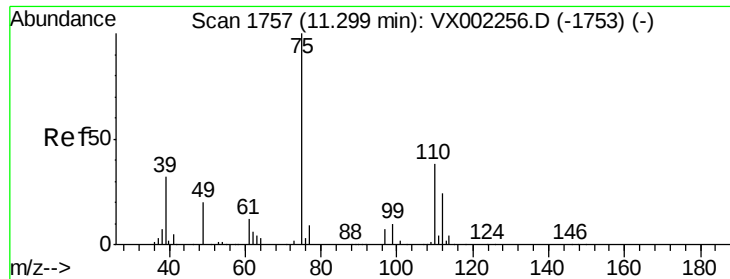


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

Instrument :

MSVOA_X

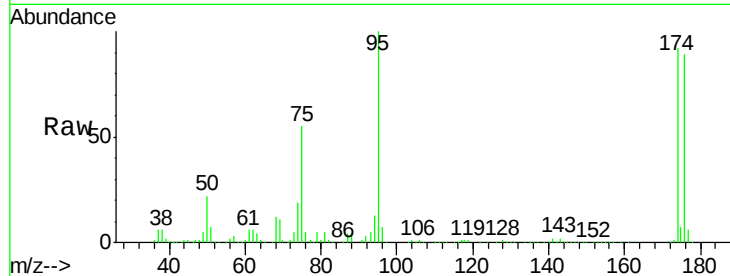
ClientSampleId :

Tot Ion: 75 Resp: 84396

Ion Ratio Lower Upper

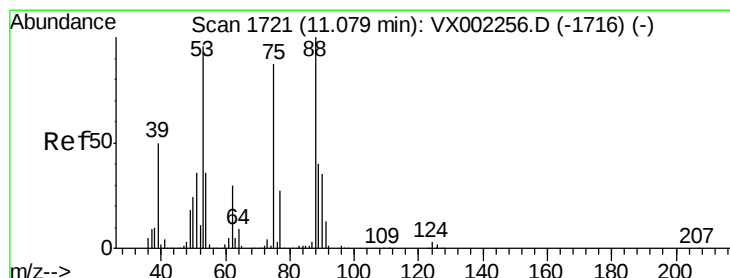
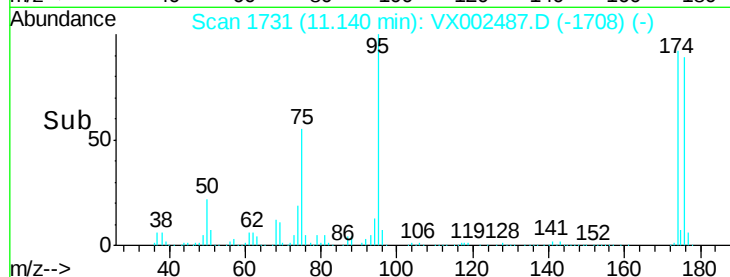
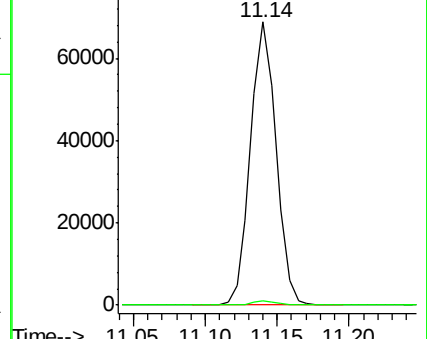
75 100

77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 82.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002487.D

Acq: 13 Jun 2018 01:18

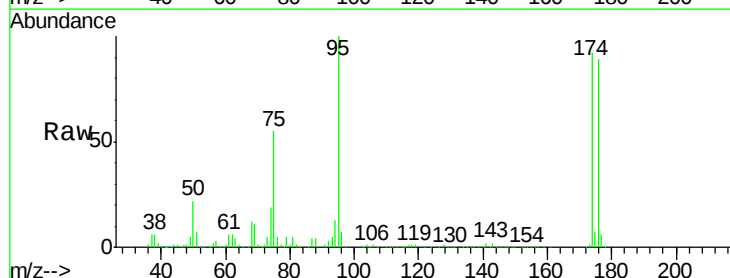
Tgt Ion: 75 Resp: 84396

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

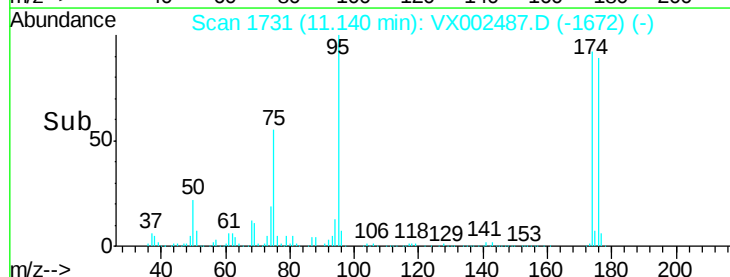
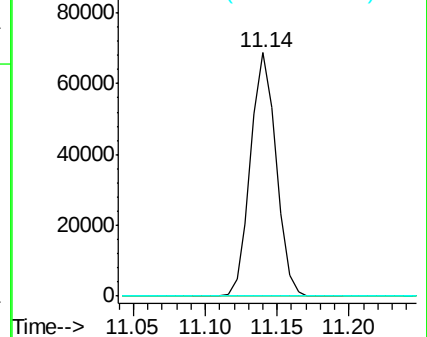
89 0.0 38.2 57.2#

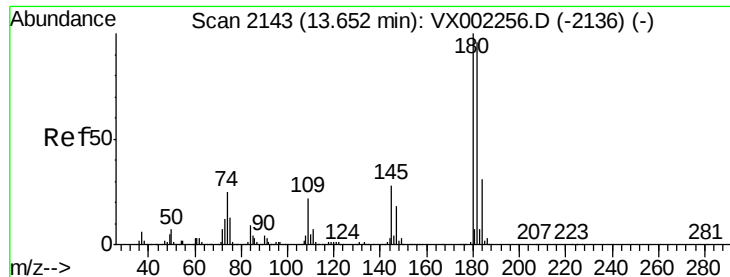


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

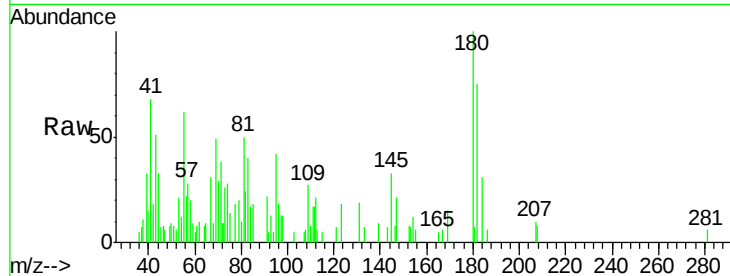




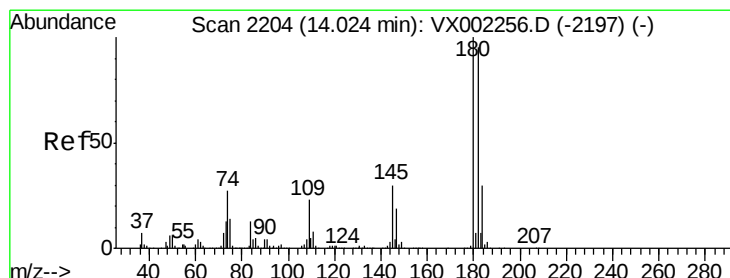
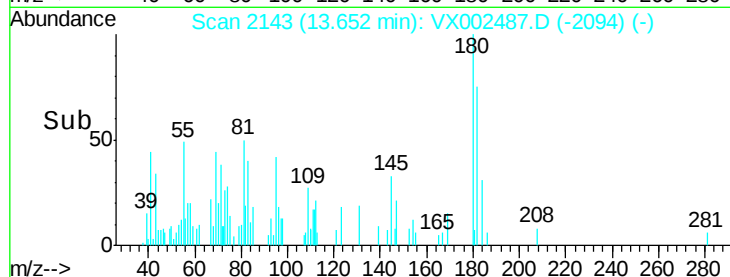
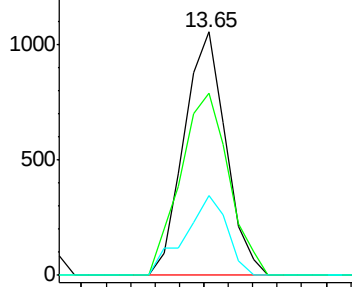
#93
 1,2,4-Trichlorobenzene
 Concen: 0.30 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VX002487.D
 Acq: 13 Jun 2018 01:18

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:180 Resp: 1248
 Ion Ratio Lower Upper
 180 100
 182 87.1 47.7 143.1
 145 33.3 14.1 42.4

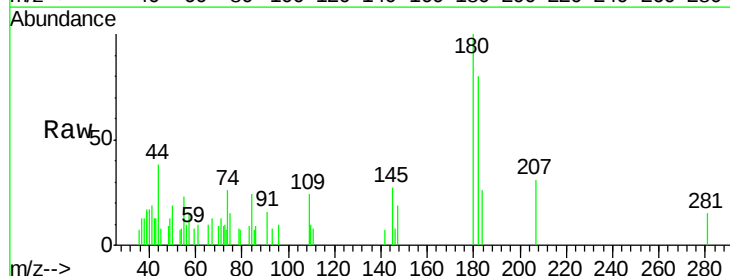


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#96
 1,2,3-Trichlorobenzene
 Concen: 0.21 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. -0.00 min
 Lab File: VX002487.D
 Acq: 13 Jun 2018 01:18

Tgt Ion:180 Resp: 901
 Ion Ratio Lower Upper
 180 100
 182 96.4 48.0 144.0
 145 36.1 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

