

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061218\
 Data File : VX002483.D
 Acq On : 12 Jun 2018 23:31
 Operator : JC/MD
 Sample : VX0612WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 03:29:23 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	203309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	299088	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	275419	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	149035	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	157635	54.53	ug/l	0.00
Spiked Amount			Recovery	=	109.06%	
35) Dibromofluoromethane	5.51	113	117813	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
50) Toluene-d8	8.72	98	461274	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	11.14	95	155405	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	

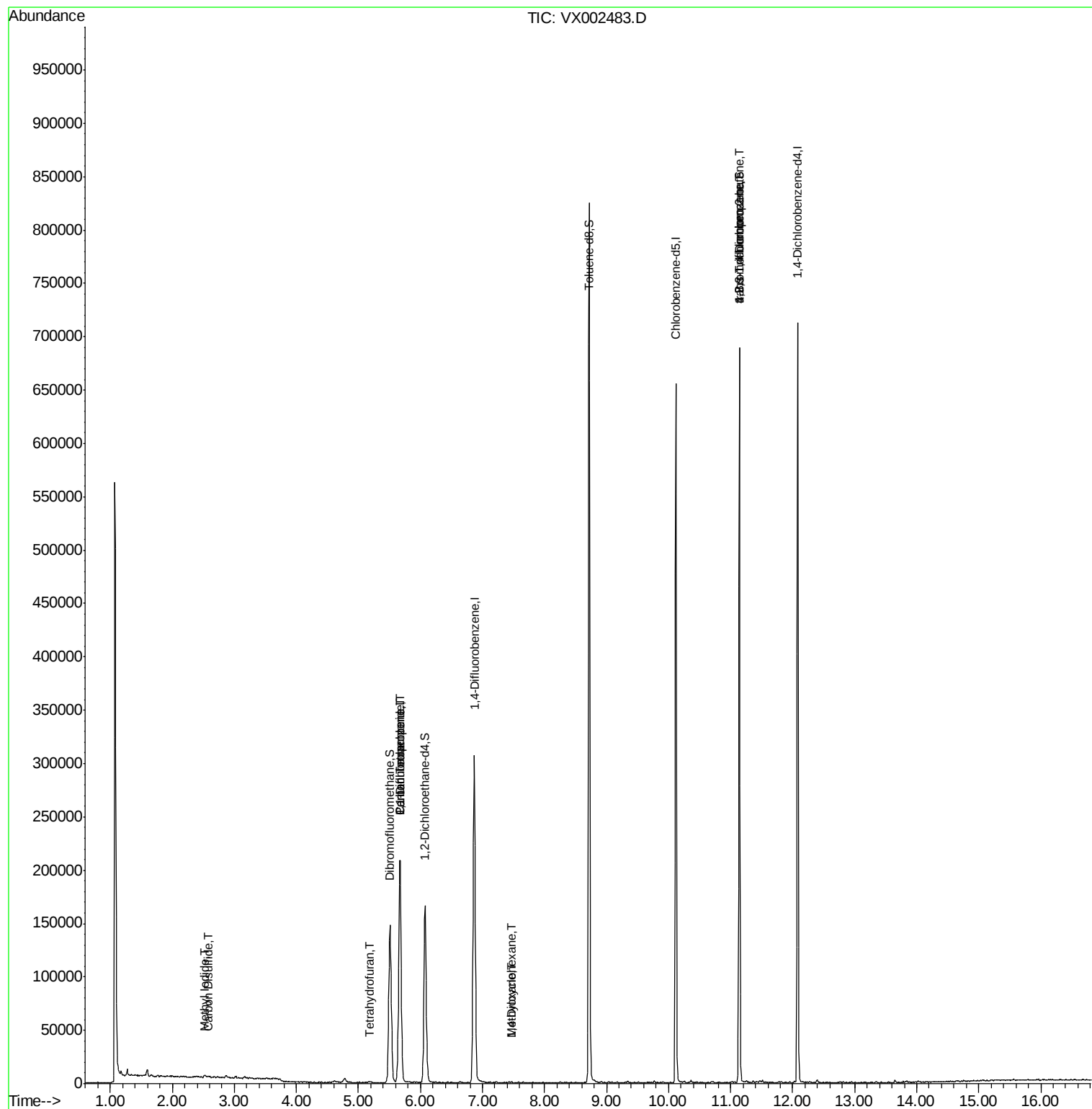
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	542	Below Cal	#	79
5) Bromomethane	1.66	94	1252	Below Cal		86
8) Diethyl Ether	2.26	74	41	Below Cal		75
10) Methyl Iodide	2.53	142	2281	0.74	ug/l	90
11) Tert butyl alcohol	3.03	59	1056	Below Cal	#	81
13) Acrolein	2.32	56	171	Below Cal	#	74
15) Acrylonitrile	3.15	53	578	Below Cal	#	90
16) Acetone	2.45	43	628	Below Cal	#	82
17) Carbon Disulfide	2.57	76	1260	0.22	ug/l	80
18) Methyl Acetate	2.78	43	335	Below Cal	#	67
19) Methyl tert-butyl Ether	3.22	73	26	Below Cal	#	1
20) Methylene Chloride	2.86	84	740	Below Cal	#	87
22) Diisopropyl ether	3.89	45	252	Below Cal	#	60
28) Bromochloromethane	5.03	49	73	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	844	0.66	ug/l	73
36) 1,1-Dichloropropene	5.67	75	15197	4.83	ug/l	51
38) Carbon Tetrachloride	5.67	117	19265	5.86	ug/l	16
39) Methylcyclohexane	7.48	83	232	0.32	ug/l	72
49) 1,4-Dioxane	7.48	88	19	0.31	ug/l	22
76) 1,2,3-Trichloropropane	11.14	75	85038	26.00	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	85038	91.15	ug/l	7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

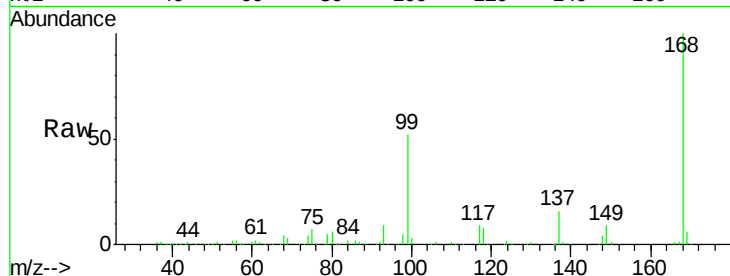
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 203309

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

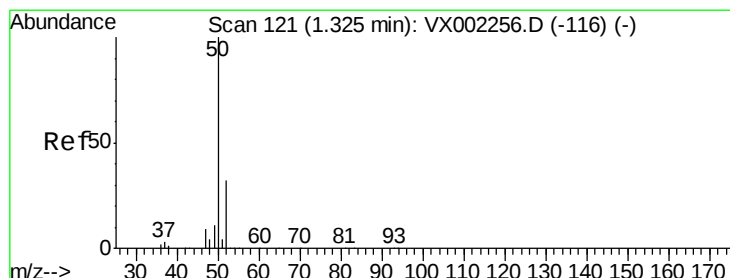
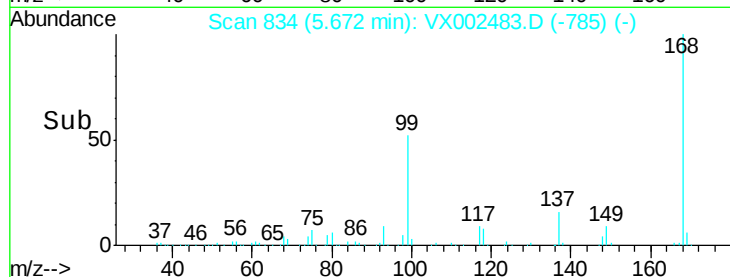
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002483.D

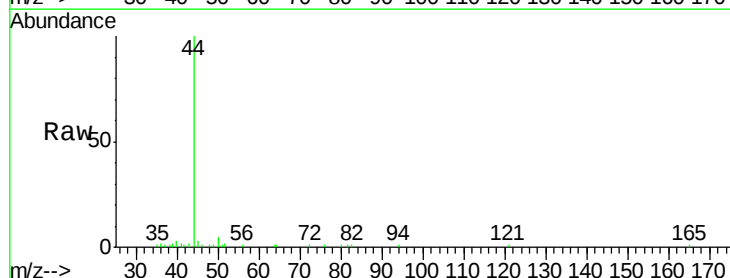
Acq: 12 Jun 2018 23:31

Tgt Ion: 50 Resp: 542

Ion Ratio Lower Upper

50 100

52 43.7 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

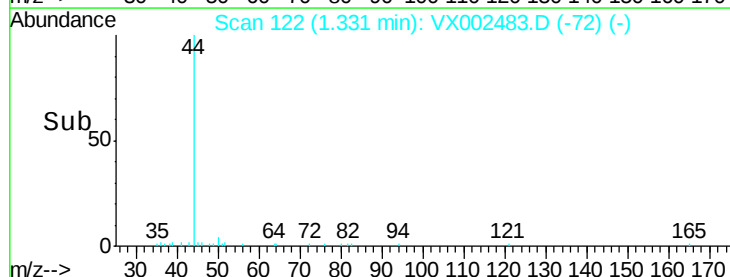
200

100

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: VX002483.D

Acq: 12 Jun 2018 23:31

Instrument :

MSVOA_X

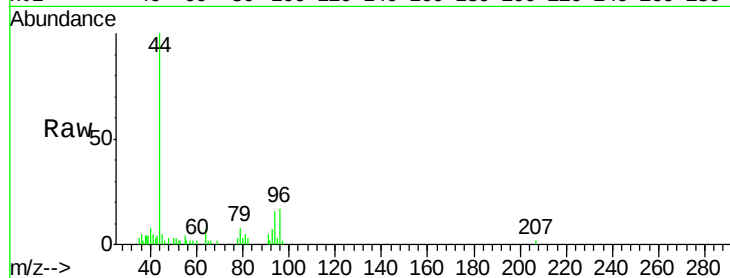
ClientSampled :

Tot Ion: 94 Resp: 1252

Ion Ratio Lower Upper

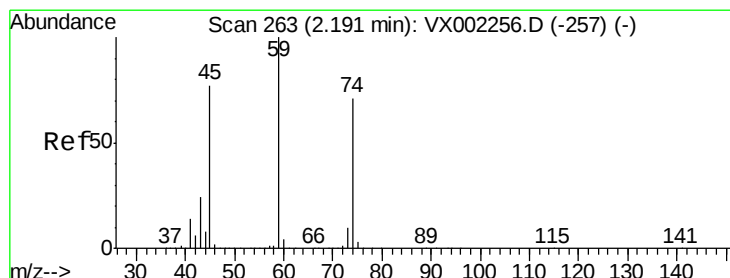
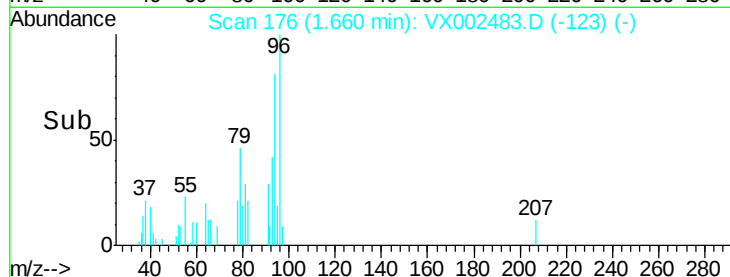
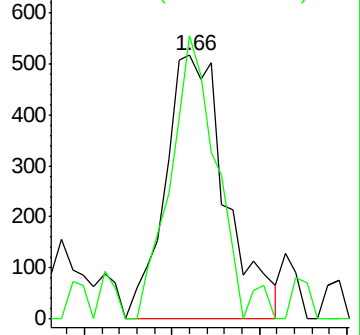
94 100

96 107.2 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.26 min Scan# 275

Delta R.T. 0.07 min

Lab File: VX002483.D

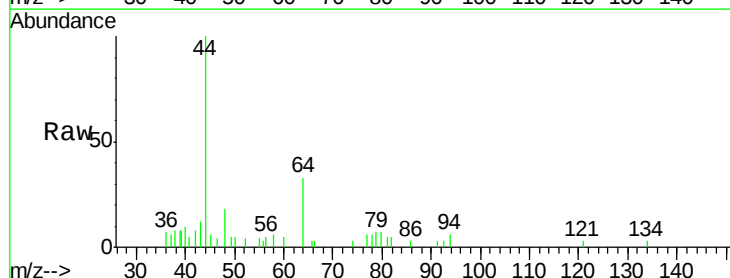
Acq: 12 Jun 2018 23:31

Tgt Ion: 74 Resp: 41

Ion Ratio Lower Upper

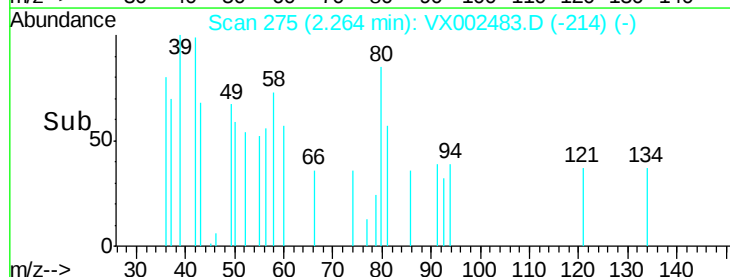
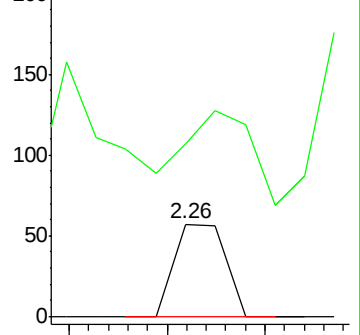
74 100

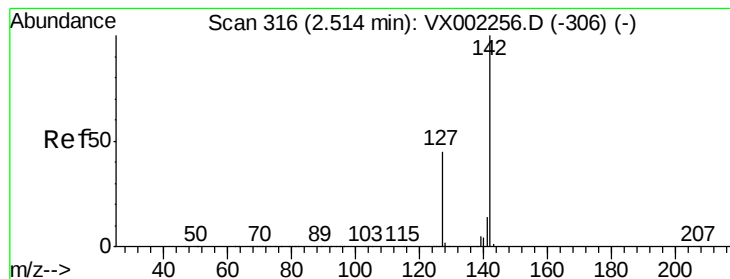
45 131.7 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methvl Iodide

Concen: 0.74 ua/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

Instrument :

MSVOA_X

ClientSampleId :

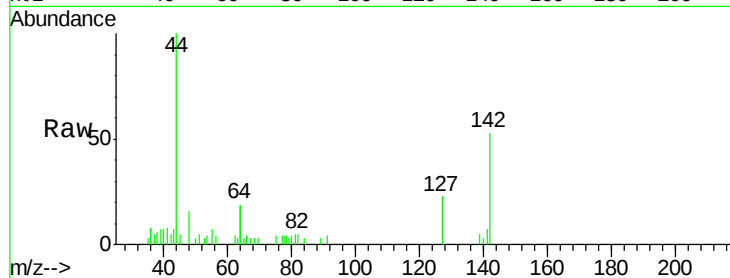
Tot Ion:142 Resp: 2281

Ion Ratio Lower Upper

142 100

127 53.5 36.6 55.0

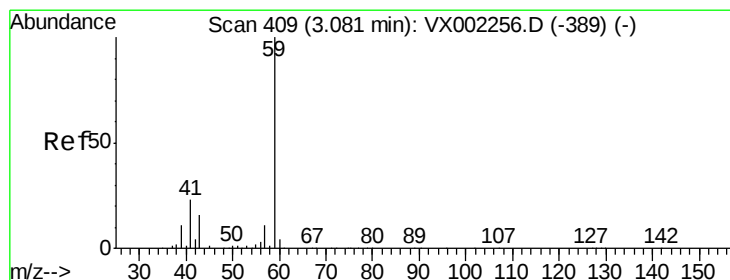
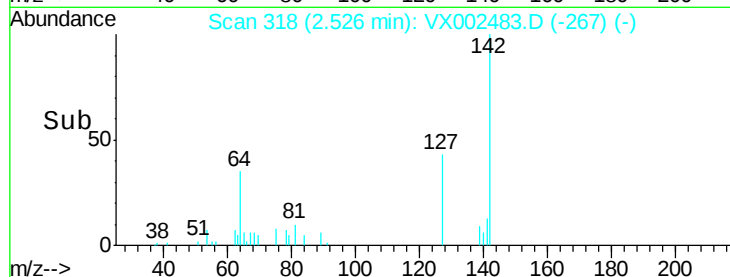
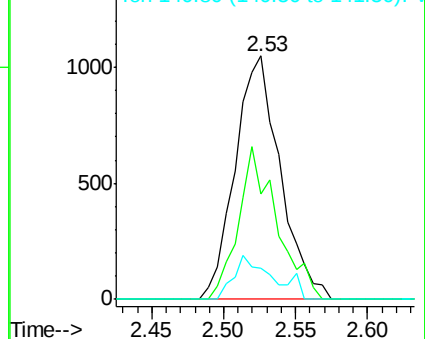
141 15.7 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.03 min Scan# 400

Delta R.T. -0.05 min

Lab File: VX002483.D

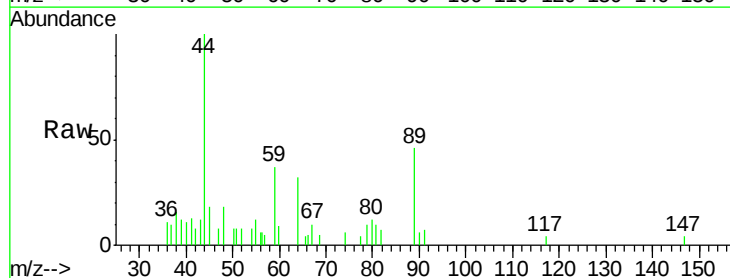
Acq: 12 Jun 2018 23:31

Tgt Ion: 59 Resp: 1056

Ion Ratio Lower Upper

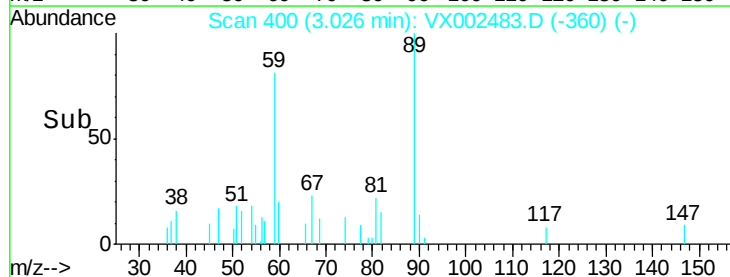
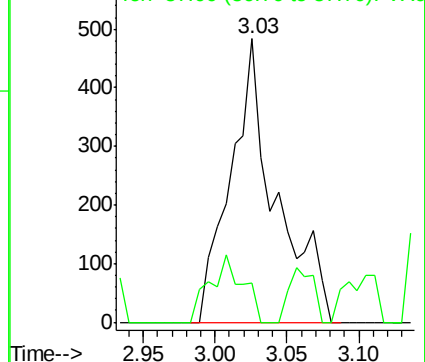
59 100

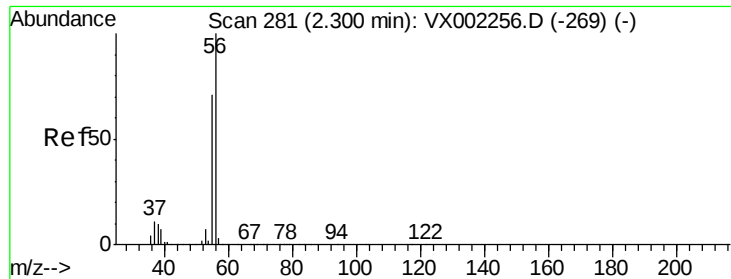
57 17.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.32 min Scan# 284

Delta R.T. 0.02 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

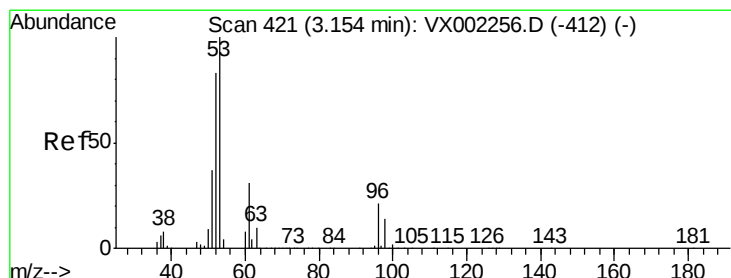
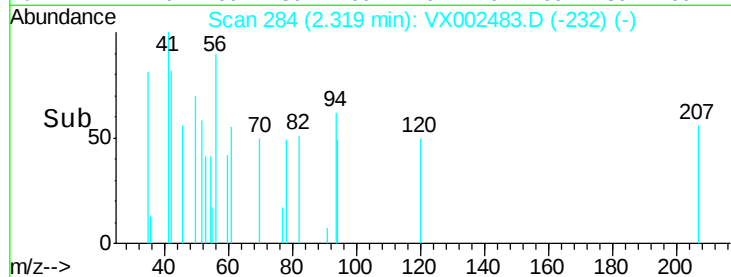
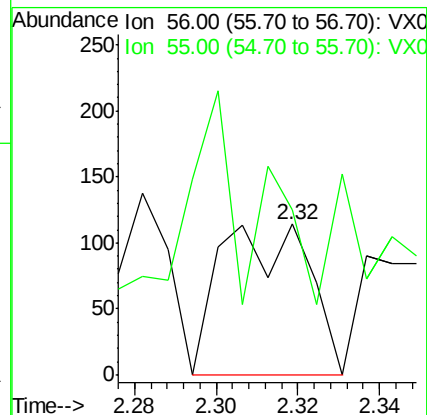
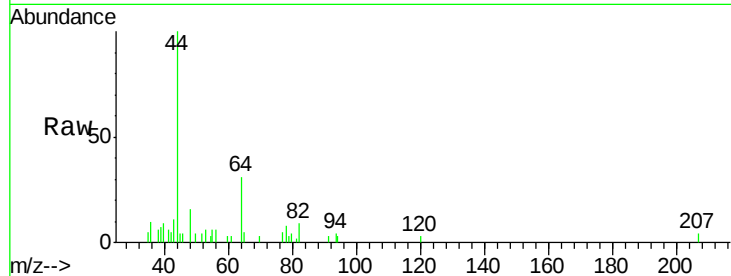
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 171

Ion Ratio Lower Upper

56 100

55 93.0 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

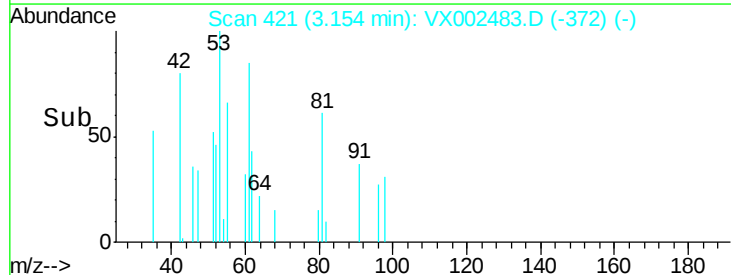
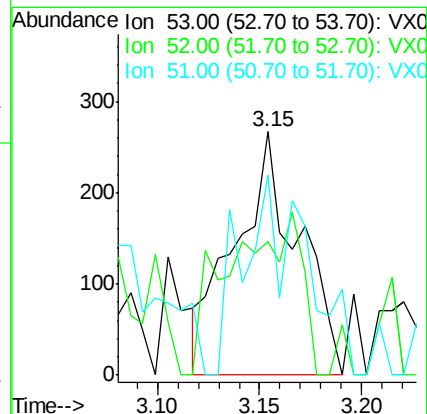
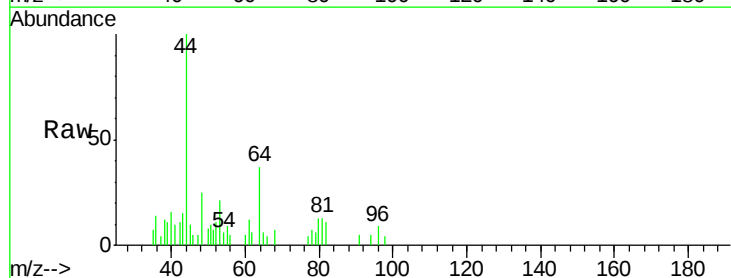
Tgt Ion: 53 Resp: 578

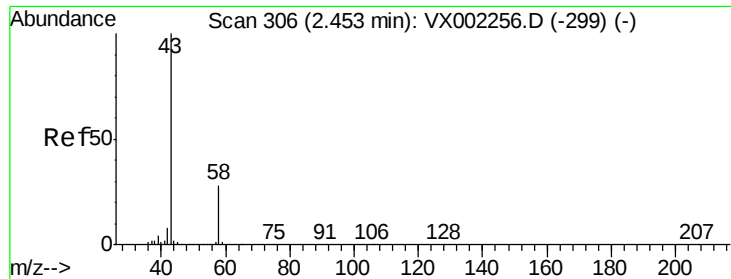
Ion Ratio Lower Upper

53 100

52 75.4 66.7 100.1

51 45.8 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

Instrument :

MSVOA_X

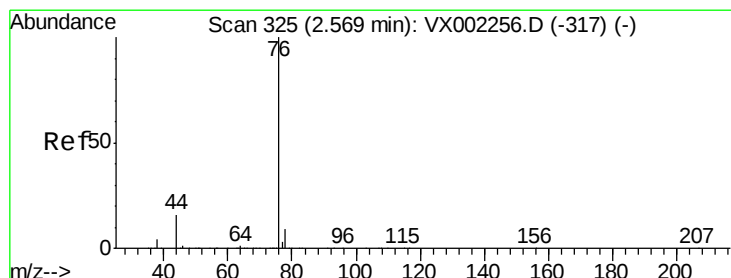
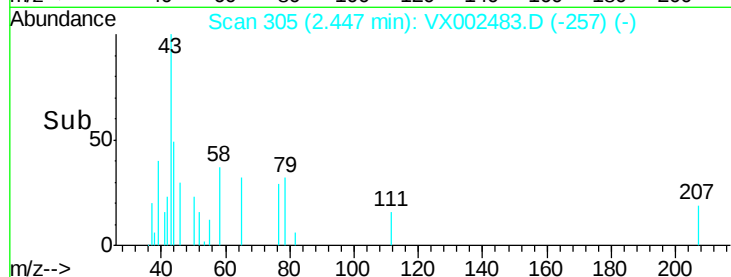
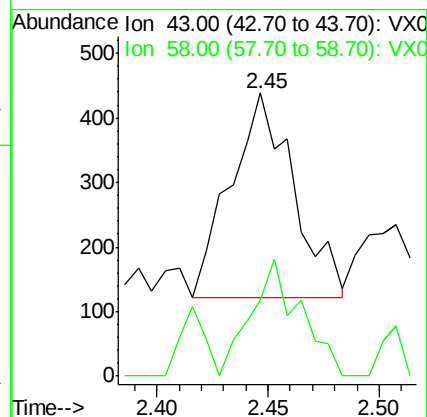
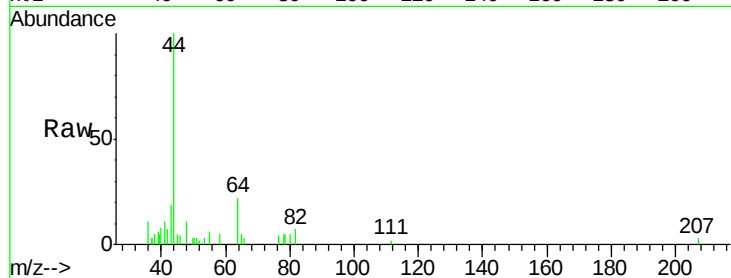
ClientSampled :

Tot Ion: 43 Resp: 628

Ion Ratio Lower Upper

43 100

58 37.2 22.1 33.1#



#17

Carbon Disulfide

Concen: 0.22 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002483.D

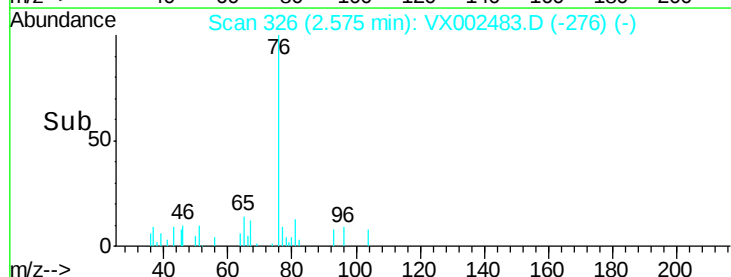
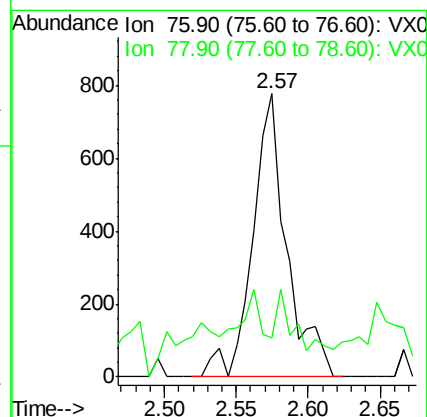
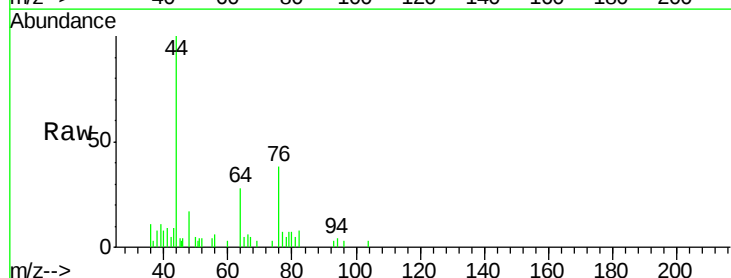
Acq: 12 Jun 2018 23:31

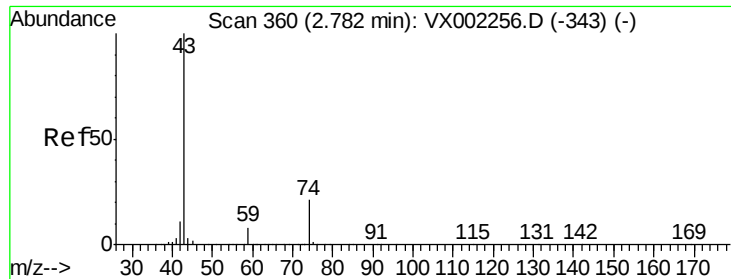
Tgt Ion: 76 Resp: 1260

Ion Ratio Lower Upper

76 100

78 1.3 6.9 10.3#

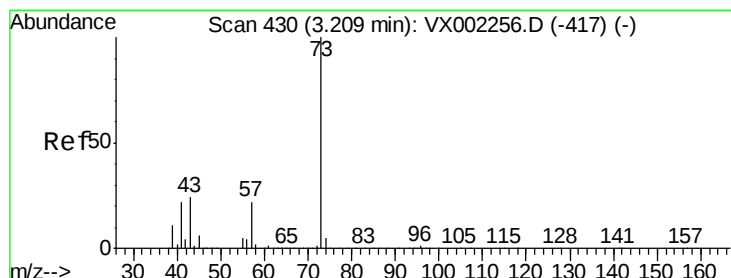
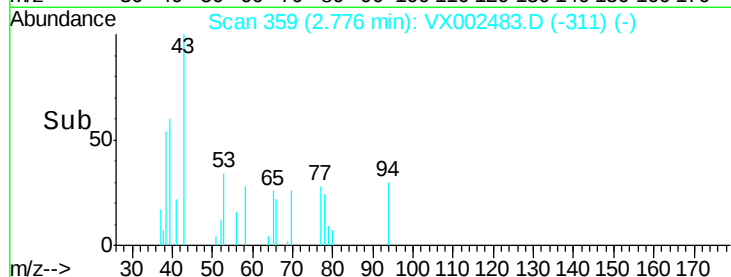
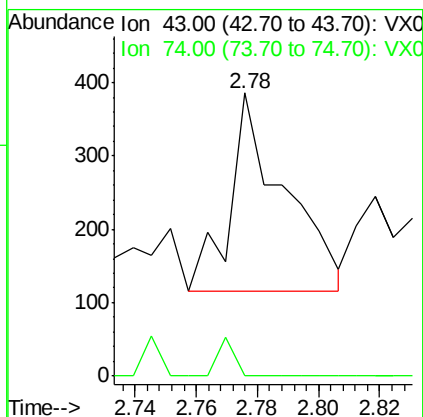
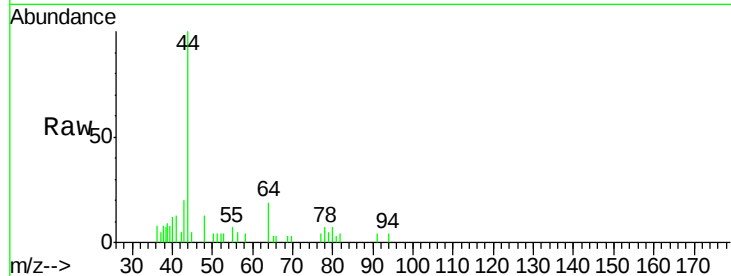




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002483.D
Acq: 12 Jun 2018 23:31

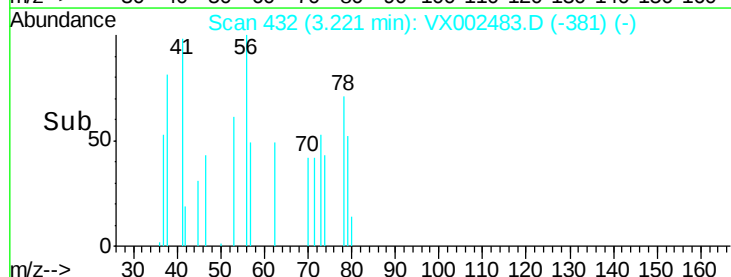
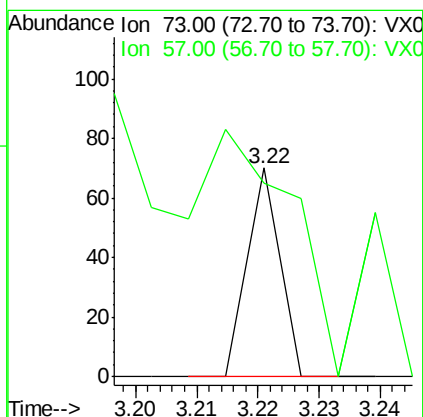
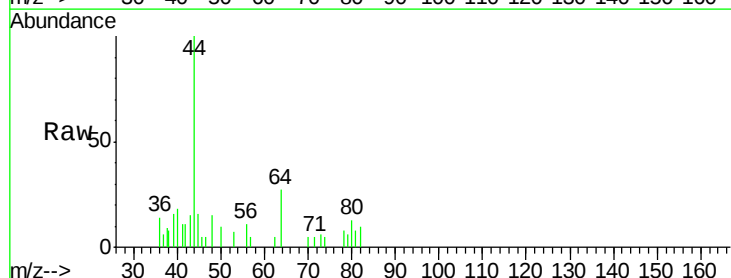
Instrument :
MSVOA_X
ClientSampled :

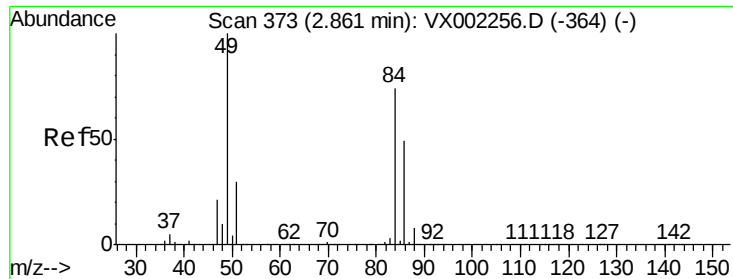
Tot Ion: 43 Resp: 335
Ion Ratio Lower Upper
43 100
74 5.7 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.22 min Scan# 432
Delta R.T. 0.01 min
Lab File: VX002483.D
Acq: 12 Jun 2018 23:31

Tgt Ion: 73 Resp: 26
Ion Ratio Lower Upper
73 100
57 92.9 17.7 26.5#

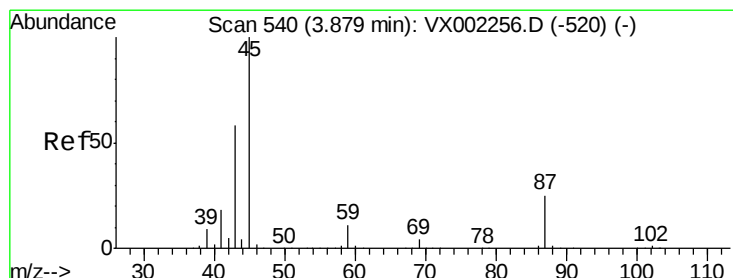
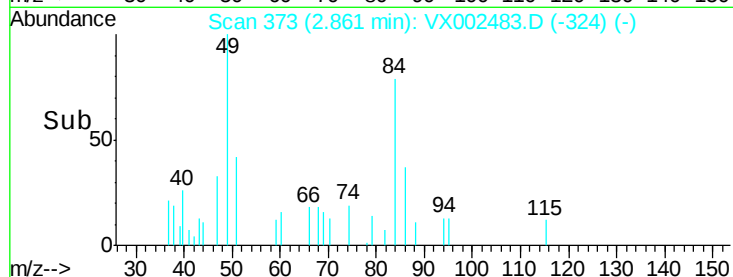
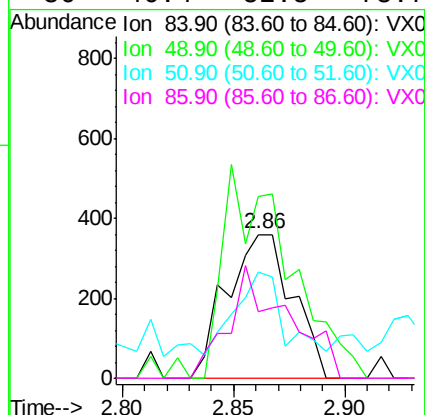
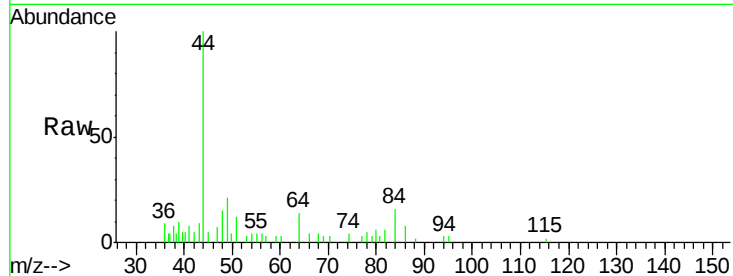




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002483.D
Acq: 12 Jun 2018 23:31

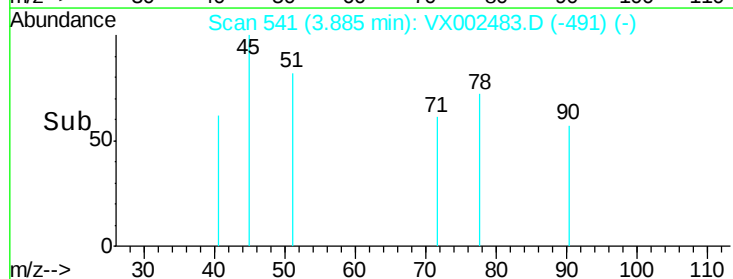
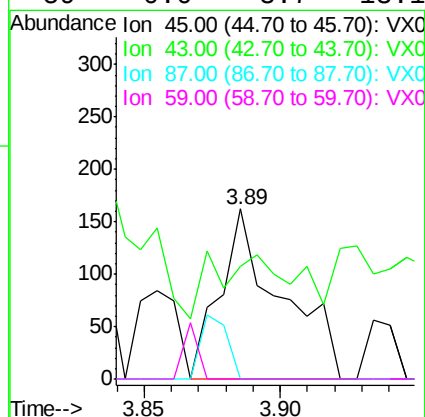
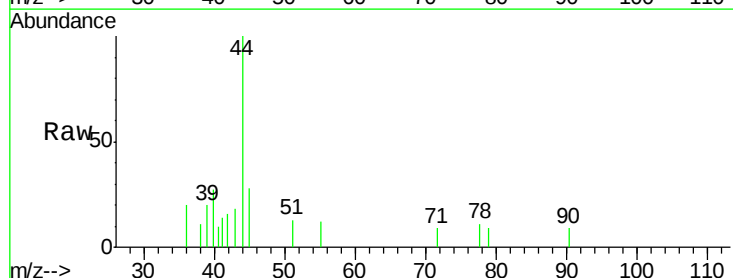
Instrument :
MSVOA_X
ClientSampleId :

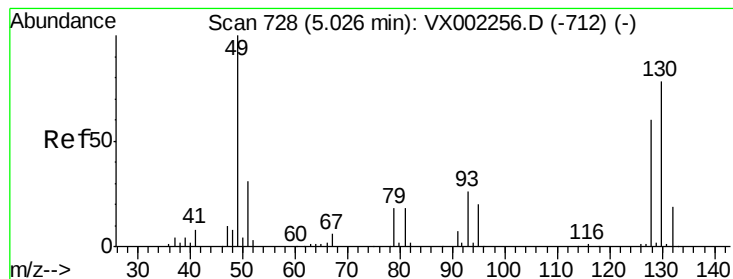
Tot Ion: 84 Resp: 740
Ion Ratio Lower Upper
84 100
49 126.1 107.8 161.6
51 49.7 32.8 49.2#
86 46.4 52.5 78.7#



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 541
Delta R.T. 0.01 min
Lab File: VX002483.D
Acq: 12 Jun 2018 23:31

Tgt Ion: 45 Resp: 252
Ion Ratio Lower Upper
45 100
43 30.9 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

Instrument :

MSVOA_X

ClientSampleId :

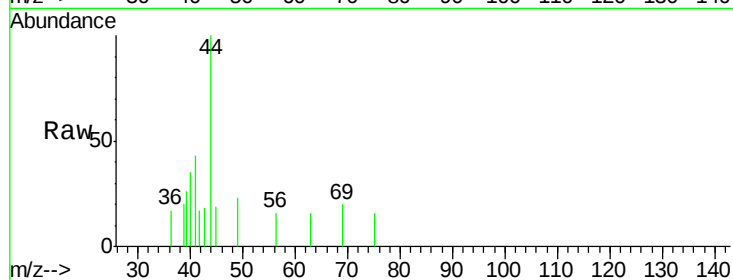
Tot Ion: 49 Resp: 73

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

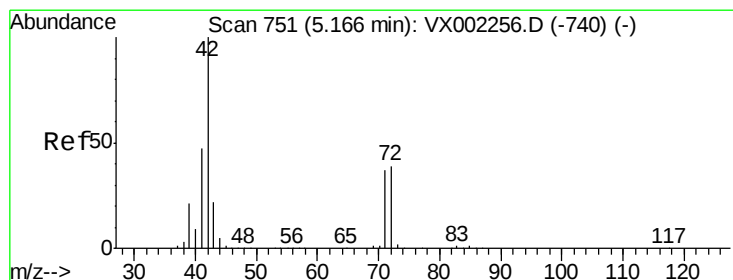
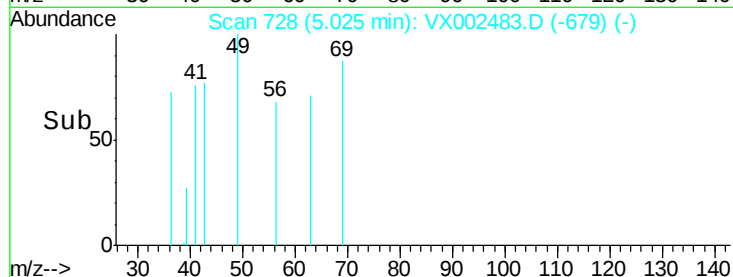
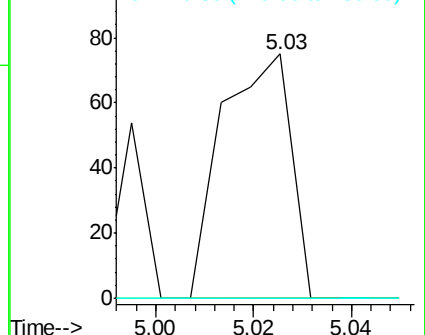
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.66 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

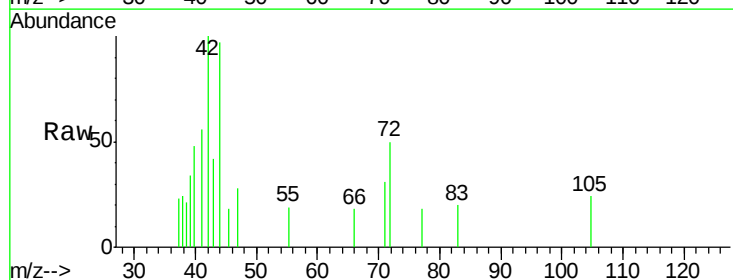
Tgt Ion: 42 Resp: 844

Ion Ratio Lower Upper

42 100

72 15.2 32.0 48.0#

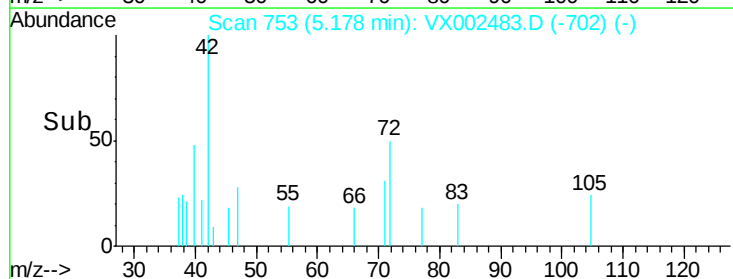
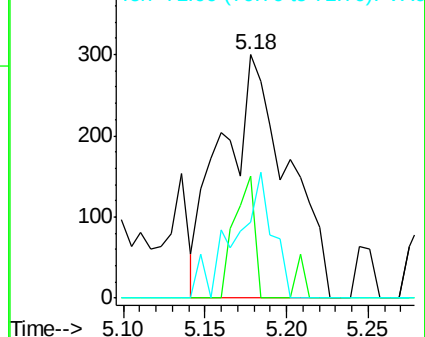
71 29.5 30.1 45.1#

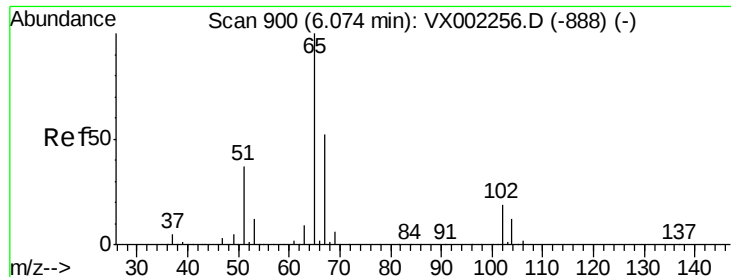


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

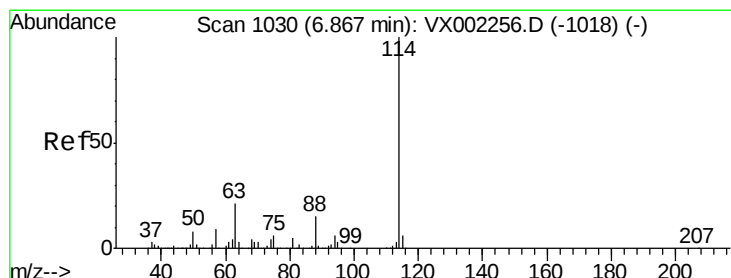
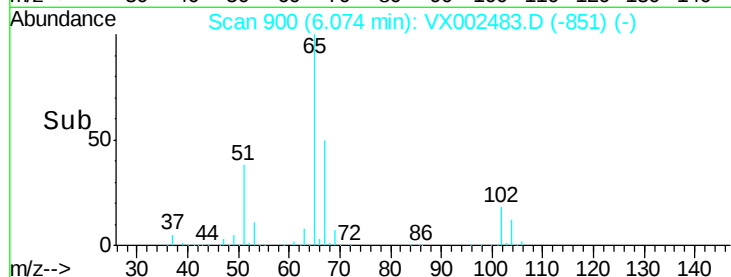
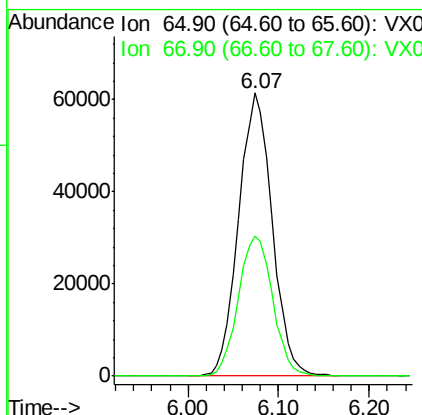
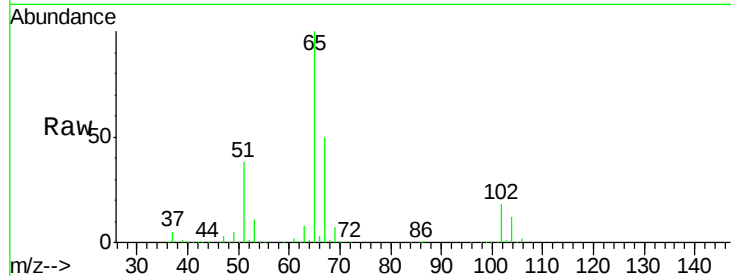




#33
 1,2-Dichloroethane-d4
 Concen: 54.53 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002483.D
 Acq: 12 Jun 2018 23:31

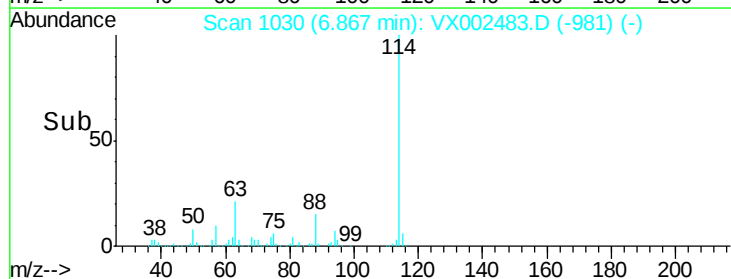
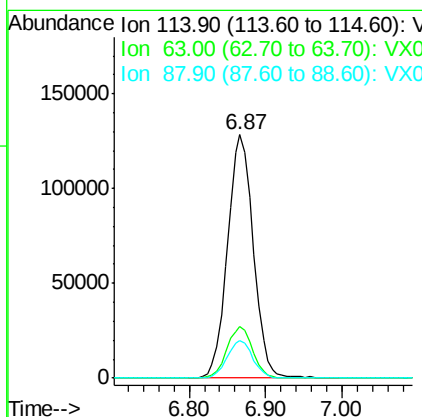
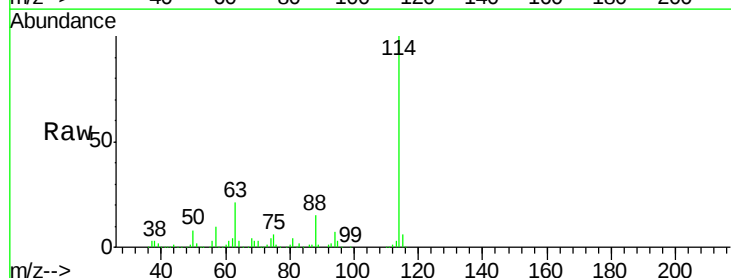
Instrument :
 MSVOA_X
 ClientSampleId :

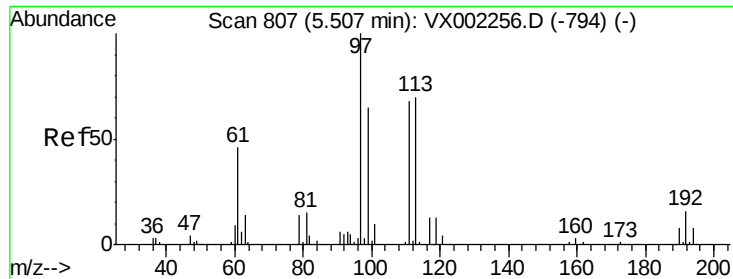
Tot Ion: 65 Resp: 157635
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002483.D
 Acq: 12 Jun 2018 23:31

Tgt Ion: 114 Resp: 299088
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 41.4
 88 15.4 0.0 30.0

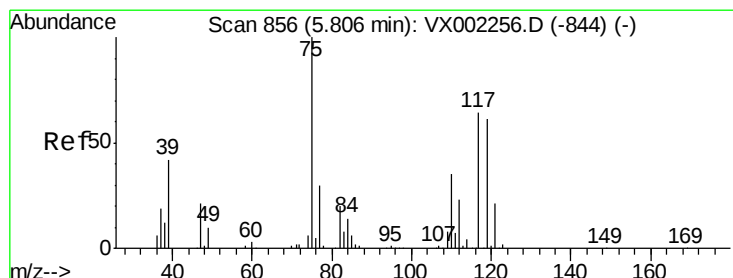
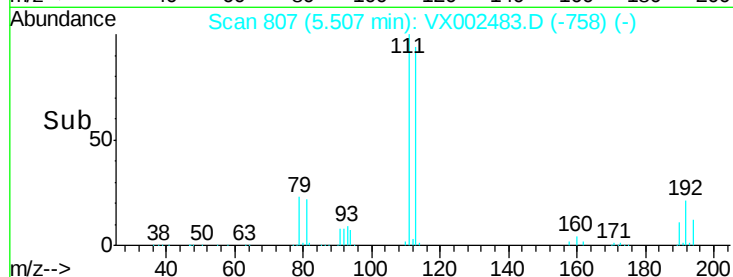
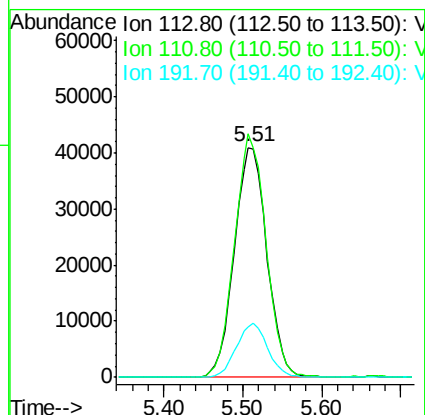
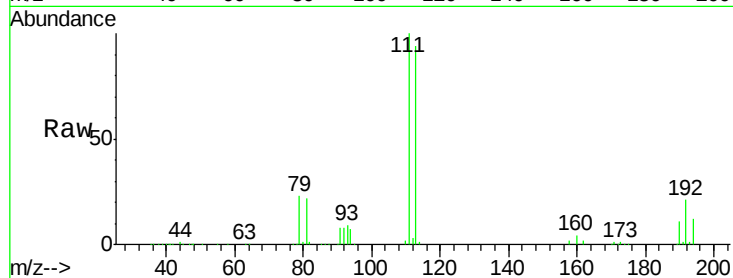




#35
 Dibromofluoromethane
 Concen: 50.09 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002483.D
 Acq: 12 Jun 2018 23:31

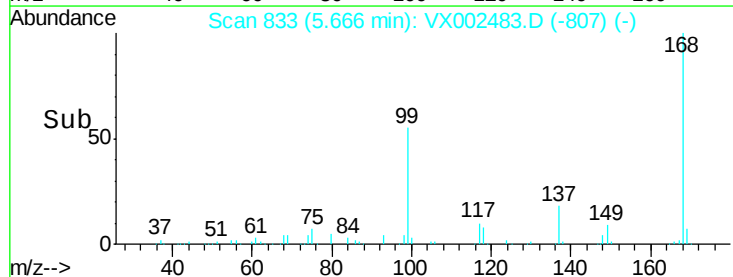
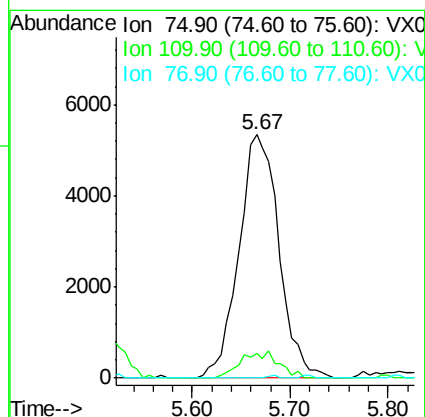
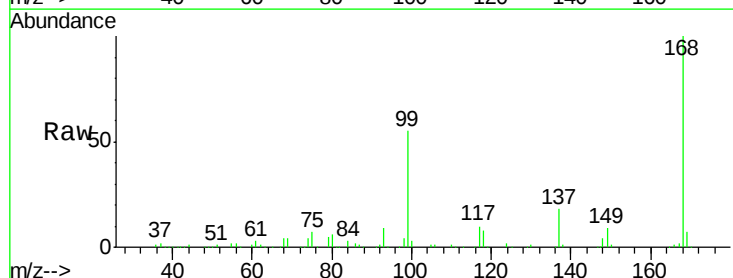
Instrument :
 MSVOA_X
 ClientSampled :

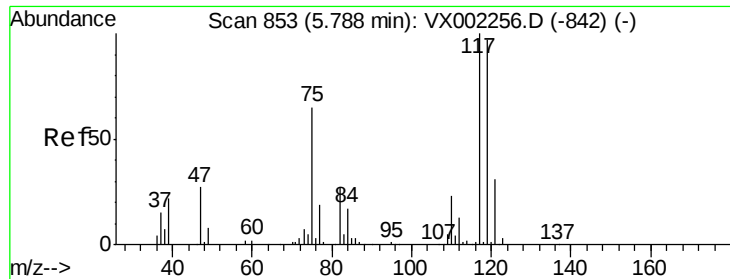
Tot Ion:113 Resp: 117813
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.4 122.0
 192 22.7 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.83 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002483.D
 Acq: 12 Jun 2018 23:31

Tgt Ion: 75 Resp: 15197
 Ion Ratio Lower Upper
 75 100
 110 10.4 18.1 54.4#
 77 0.3 24.3 36.5#

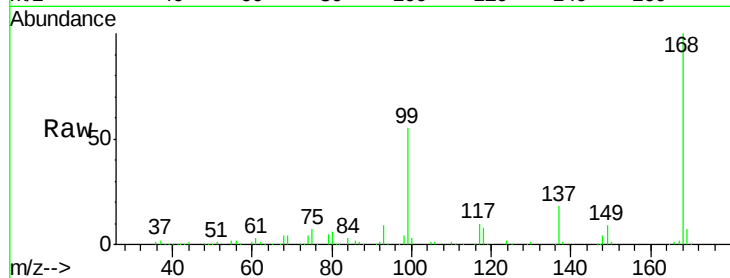




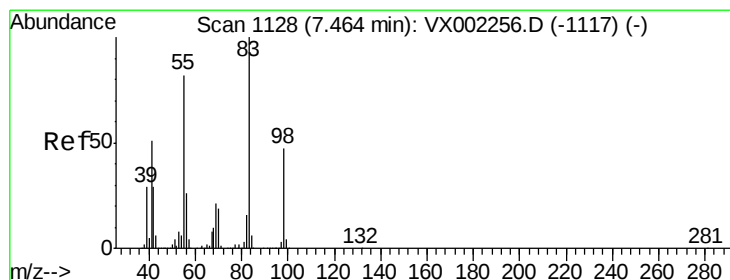
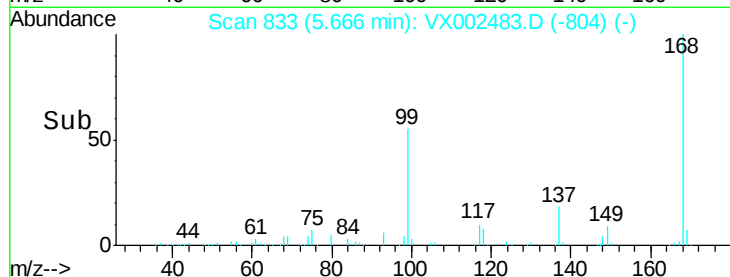
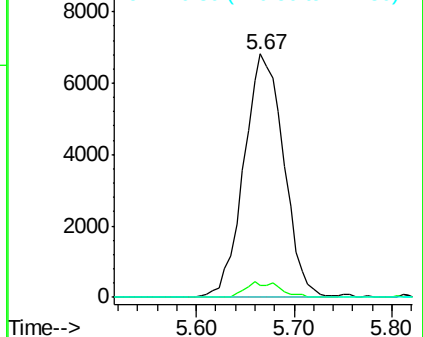
#38
Carbon Tetrachloride
Concen: 5.86 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002483.D
Acq: 12 Jun 2018 23:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 19265
Ion Ratio Lower Upper
117 100
119 4.9 77.4 116.0#
121 0.0 24.4 36.6#

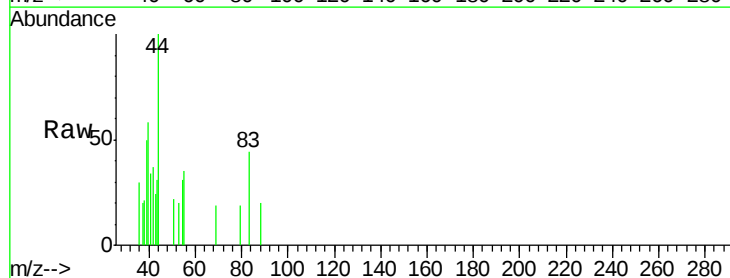


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

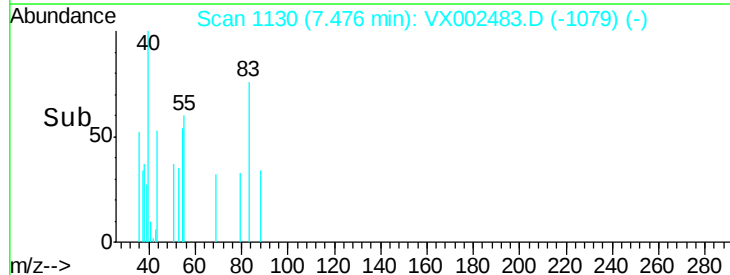
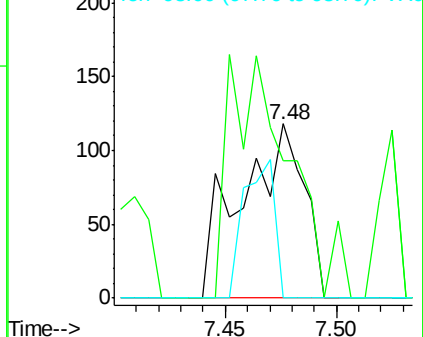


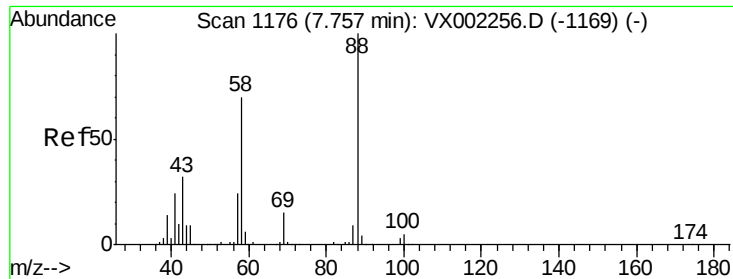
#39
Methylcyclohexane
Concen: 0.32 ug/l
RT: 7.48 min Scan# 1130
Delta R.T. 0.01 min
Lab File: VX002483.D
Acq: 12 Jun 2018 23:31

Tgt Ion: 83 Resp: 232
Ion Ratio Lower Upper
83 100
55 78.8 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





#49

1,4-Dioxane

Concen: 0.31 ug/l

RT: 7.48 min Scan# 1130

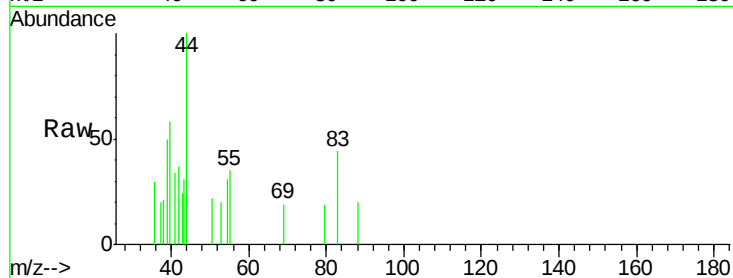
Delta R.T. -0.28 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

Instrument :
MSVOA_X
ClientSampleId :

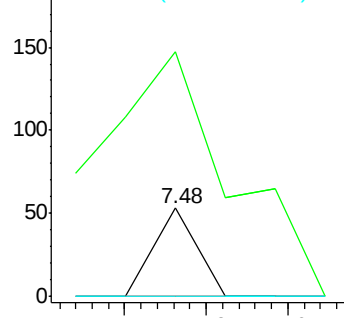
Tot Ion	88	Resp	19
Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.8	44.6#
58	0.0	57.1	85.7#



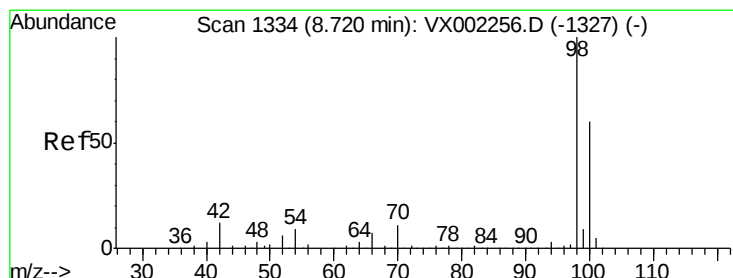
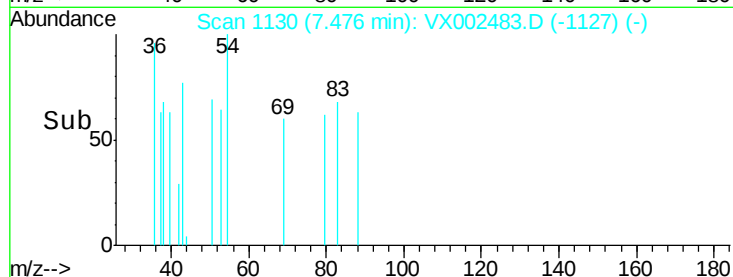
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 51.17 ug/l

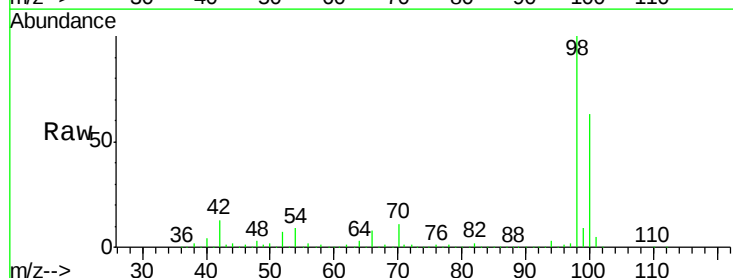
RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002483.D

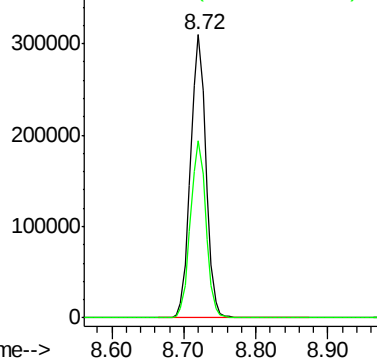
Acq: 12 Jun 2018 23:31

Tgt Ion	98	Resp	461274
Ion	Ratio	Lower	Upper
98	100		
100	63.0	50.9	76.3

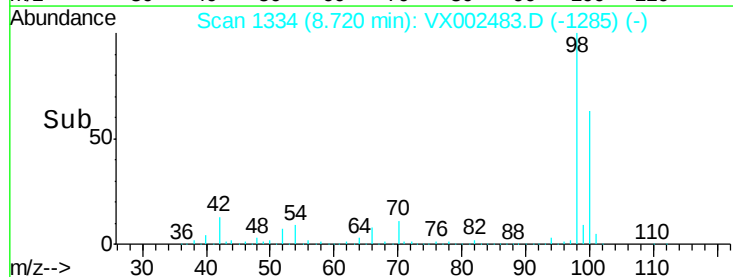


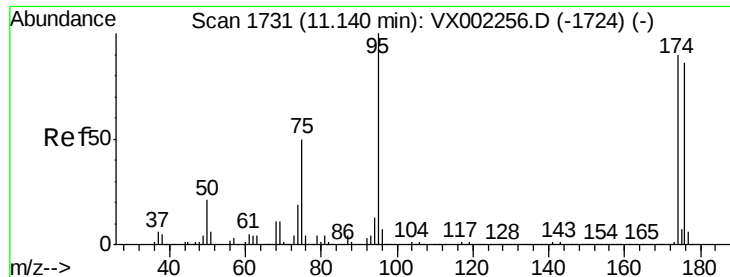
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->





#62

4-Bromofluorobenzene

Concen: 44.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

Instrument :

MSVOA_X

ClientSampleId :

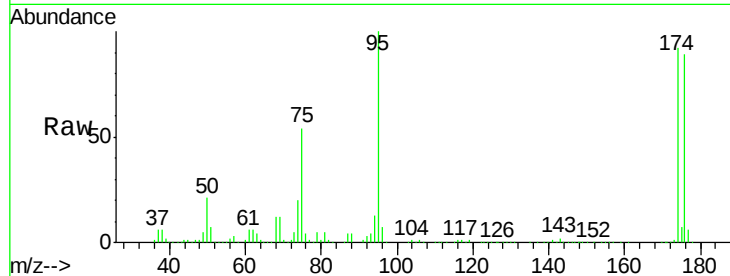
Tot Ion: 95 Resp: 155405

Ion Ratio Lower Upper

95 100

174 94.1 0.0 187.4

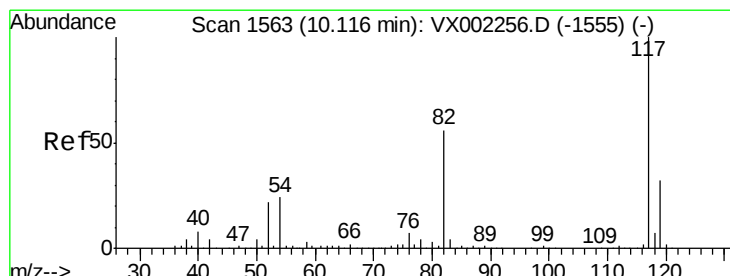
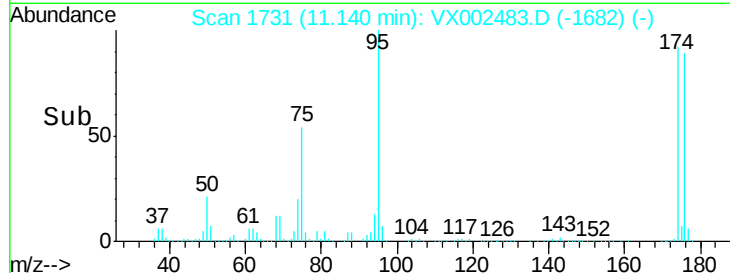
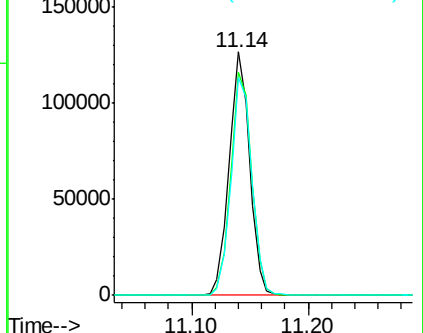
176 91.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

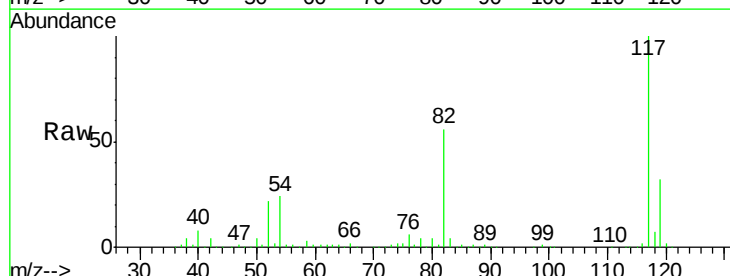
Tgt Ion: 117 Resp: 275419

Ion Ratio Lower Upper

117 100

82 55.7 45.0 67.4

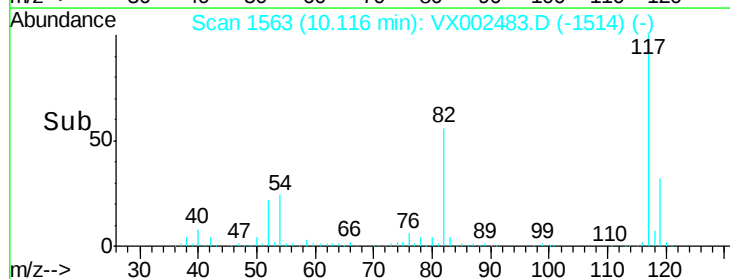
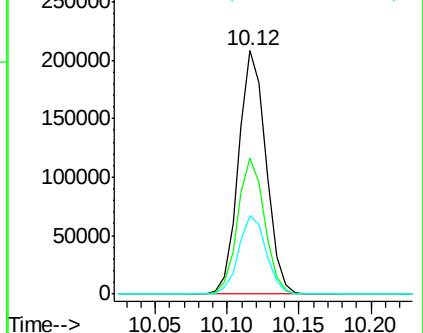
119 32.3 25.8 38.6

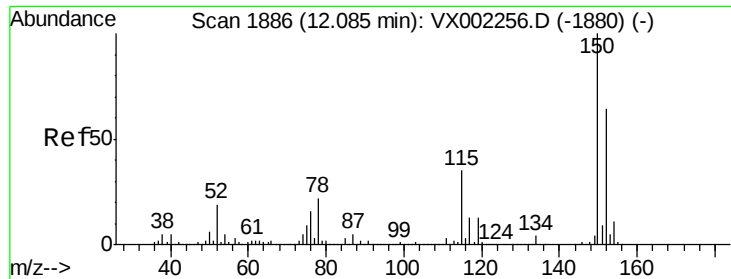


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

Instrument :

MSVOA_X

ClientSampled :

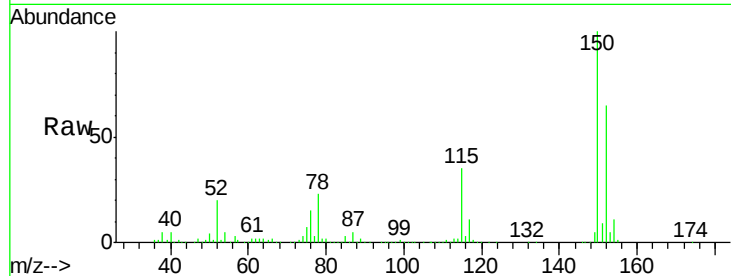
Tot Ion:152 Resp: 149035

Ion Ratio Lower Upper

152 100

115 55.5 40.1 120.2

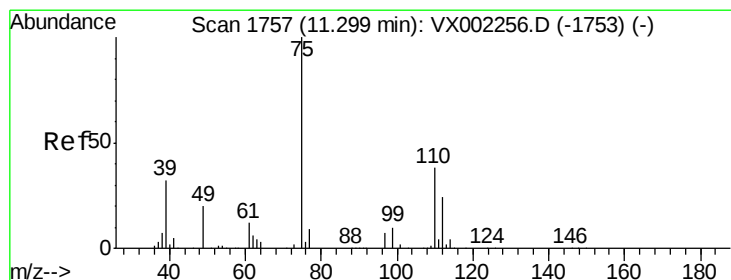
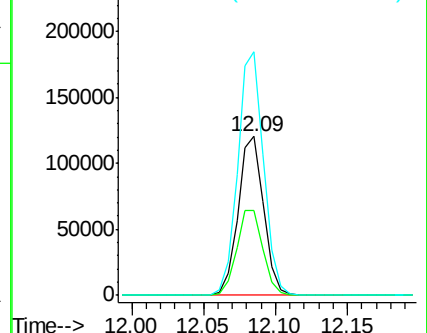
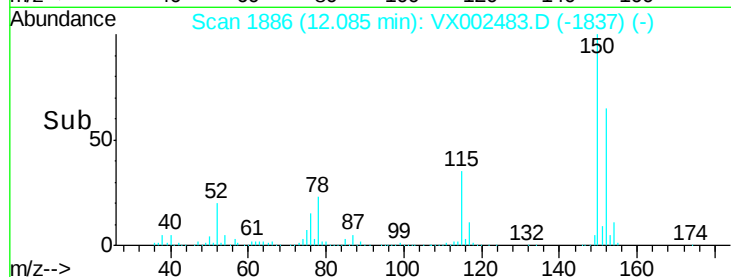
150 154.6 0.0 347.2



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: 26.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002483.D

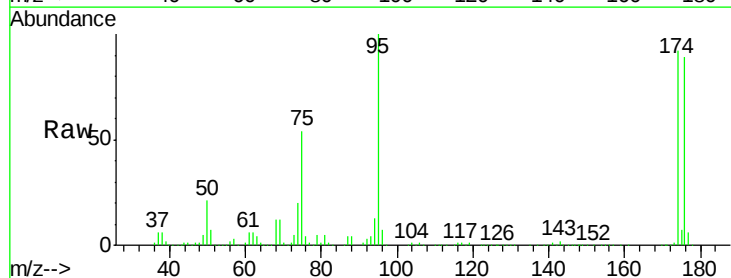
Acq: 12 Jun 2018 23:31

Tgt Ion: 75 Resp: 85038

Ion Ratio Lower Upper

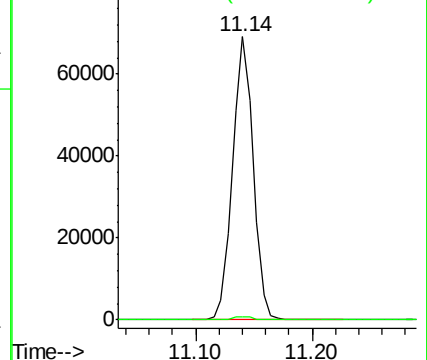
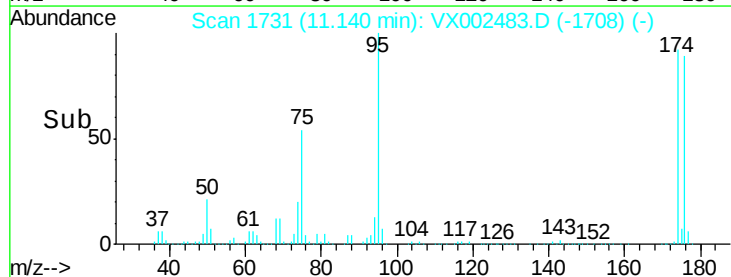
75 100

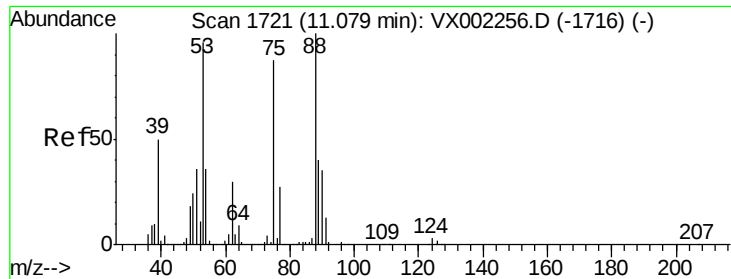
77 1.3 22.8 68.3#



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: 91.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

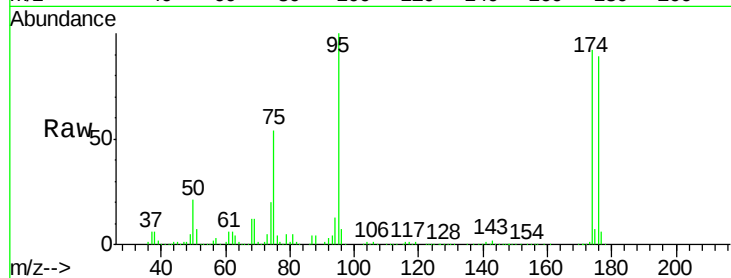
Lab File: VX002483.D

Acq: 12 Jun 2018 23:31

Instrument :

MSVOA_X

ClientSampleId :



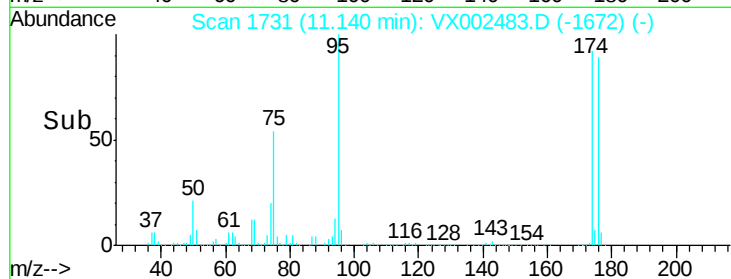
Tot Ion: 75 Resp: 85038

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

