

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002279.D
 Acq On : 05 Jun 2018 00:33
 Operator : JC/MD
 Sample : J3234-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 05 06:08:53 2018
 Quant Method : Y:\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	272367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	389429	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	361761	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	209024	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	185033	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
35) Dibromofluoromethane	5.51	113	137267	44.82	ug/l	0.00
Spiked Amount			Recovery	=	89.64%	
50) Toluene-d8	8.72	98	561067	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
62) 4-Bromofluorobenzene	11.14	95	203453	44.95	ug/l	0.00
Spiked Amount			Recovery	=	89.90%	

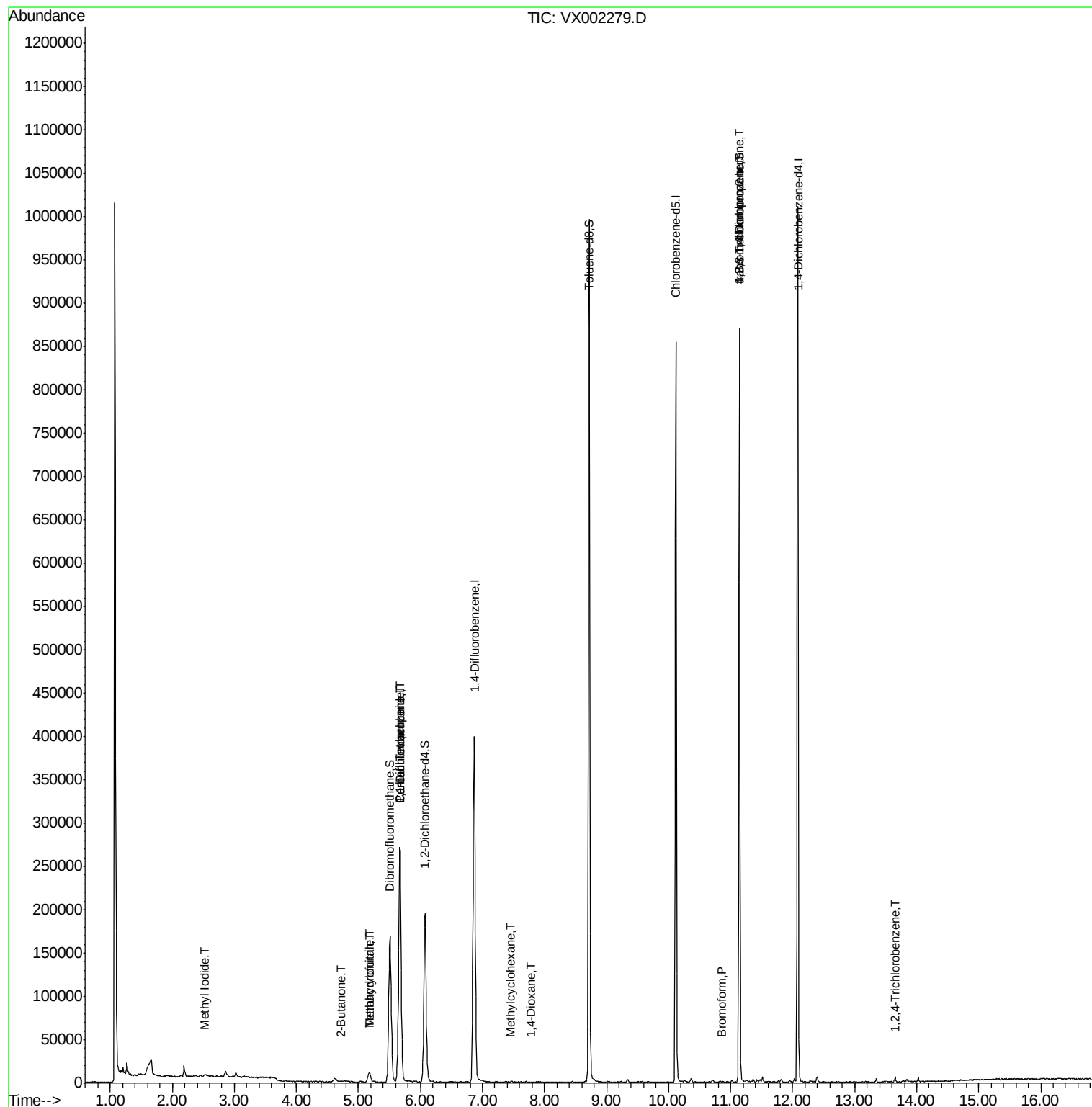
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	791	Below Cal		100
5) Bromomethane	1.64	94	2287	Below Cal		95
8) Diethyl Ether	2.19	74	4212	Below Cal		97
10) Methyl Iodide	2.52	142	2327	0.56 ug/l	#	92
11) Tert butyl alcohol	3.03	59	2565	Below Cal	#	87
13) Acrolein	2.31	56	190	Below Cal	#	59
15) Acrylonitrile	3.16	53	489	Below Cal	#	65
16) Acetone	2.46	43	2396	Below Cal	#	89
18) Methyl Acetate	2.80	43	422	Below Cal	#	76
19) Methyl tert-butyl Ether	3.21	73	347	Below Cal	#	64
20) Methylene Chloride	2.86	84	3051	Below Cal		95
22) Diisopropyl ether	3.88	45	406	Below Cal	#	79
25) 2-Butanone	4.72	43	990	0.37 ug/l	#	52
28) Bromochloromethane	5.02	49	98	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	11539	6.70 ug/l		94
36) 1,1-Dichloropropene	5.67	75	19490	4.76 ug/l	#	51
38) Carbon Tetrachloride	5.67	117	25888	6.04 ug/l	#	15
39) Methylcyclohexane	7.46	83	238	0.31 ug/l	#	55
41) Methacrylonitrile	5.17	41	6393	2.27 ug/l	#	52
49) 1,4-Dioxane	7.79	88	42	0.53 ug/l	#	1
71) Bromoform	10.86	173	194	3.52 ug/l	#	28
76) 1,2,3-Trichloropropane	11.14	75	110299	24.05 ug/l	#	32
81) trans-1,4-Dichloro-2-buten	11.14	75	110299	84.30 ug/l	#	6
93) 1,2,4-Trichlorobenzene	13.65	180	1278	0.24 ug/l		92

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

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QLast Update : Tue Jun 05 03:22:35 2018
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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: VX002279.D

Acq: 05 Jun 2018 00:33

Instrument :

MSVOA_X

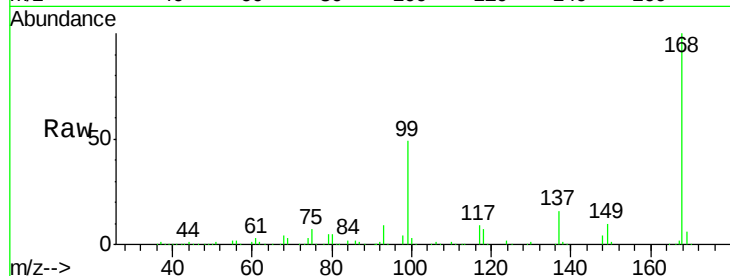
ClientSampleId :

Tot Ion:168 Resp: 272367

Ion Ratio Lower Upper

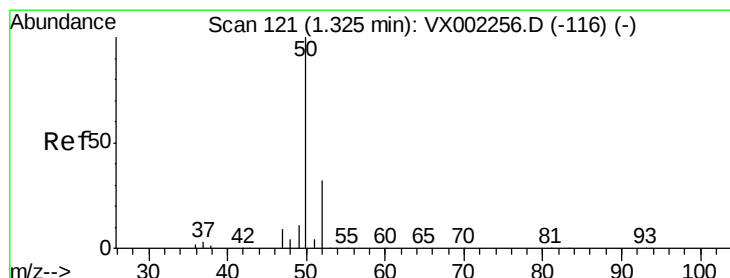
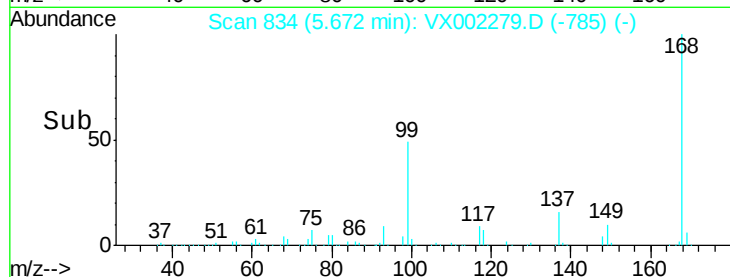
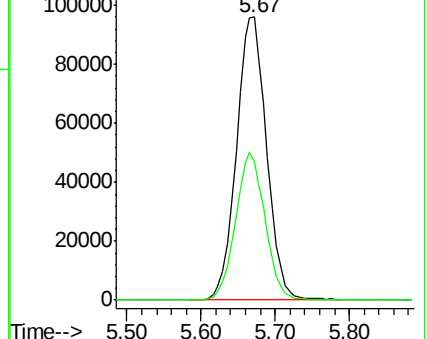
168 100

99 49.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002279.D

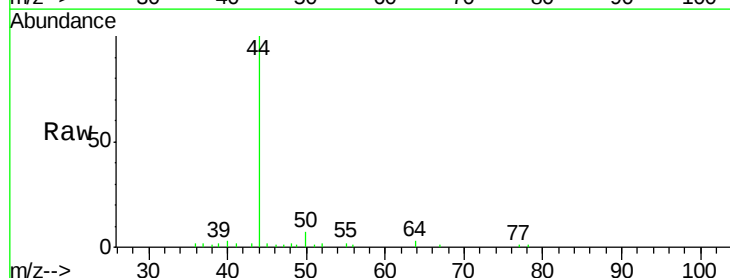
Acq: 05 Jun 2018 00:33

Tgt Ion: 50 Resp: 791

Ion Ratio Lower Upper

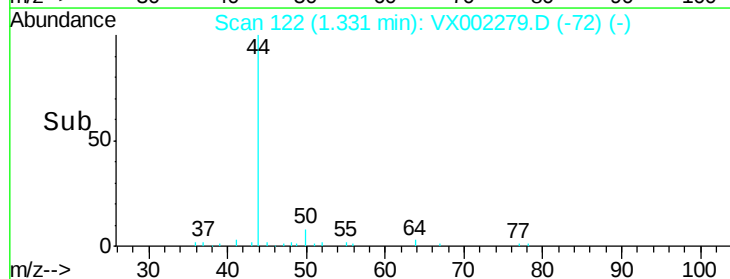
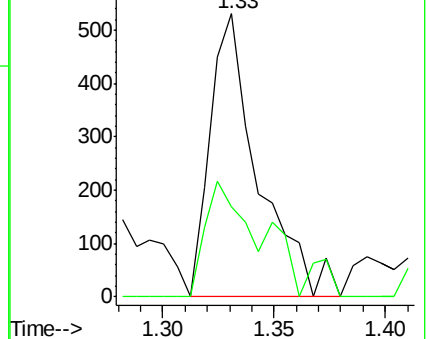
50 100

52 31.8 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

Instrument :

MSVOA_X

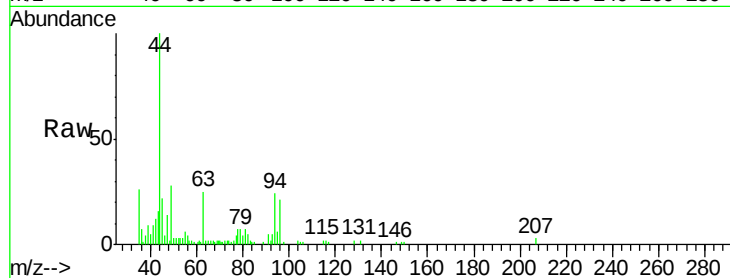
ClientSampled :

Tot Ion: 94 Resp: 2287

Ion Ratio Lower Upper

94 100

96 88.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1500

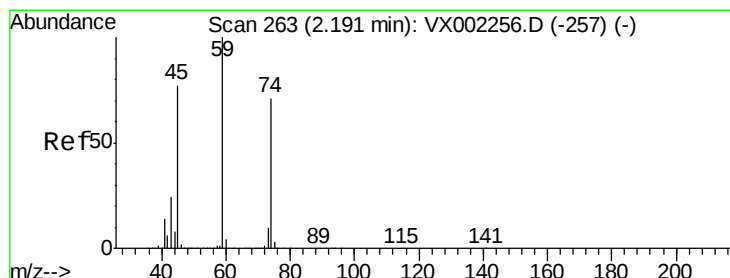
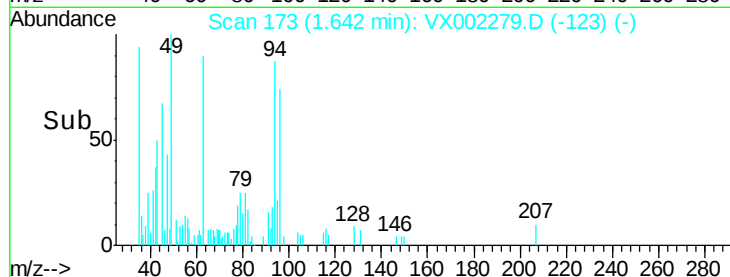
1000

500

0

1.55 1.60 1.65 1.70

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002279.D

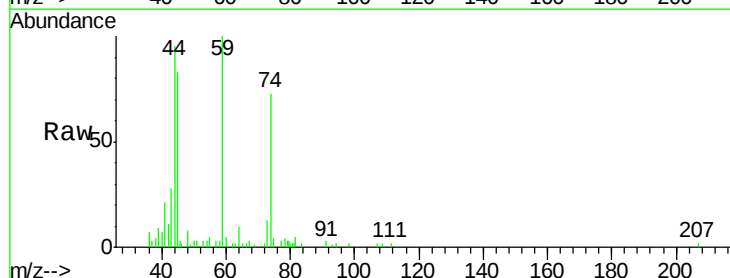
Acq: 05 Jun 2018 00:33

Tgt Ion: 74 Resp: 4212

Ion Ratio Lower Upper

74 100

45 102.7 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

3000

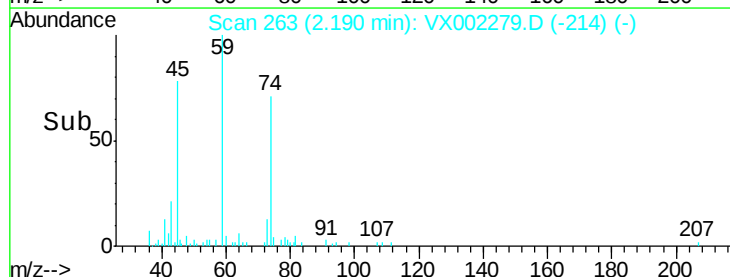
2000

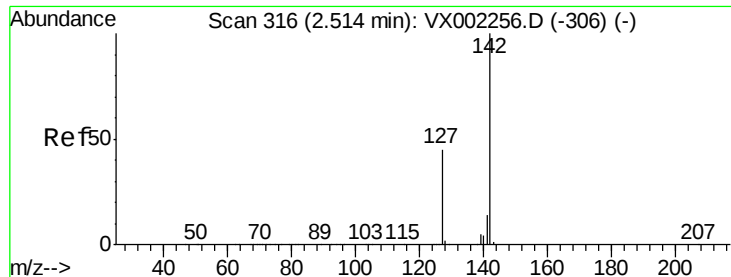
1000

0

2.15 2.20 2.25

Time-->

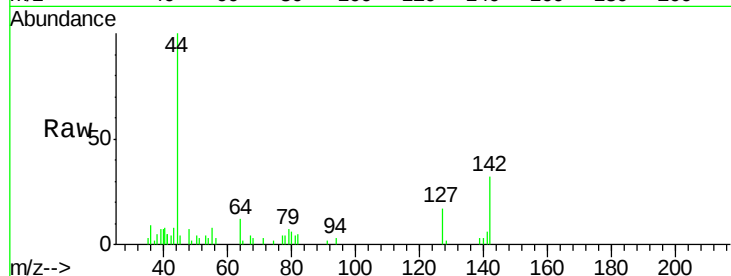




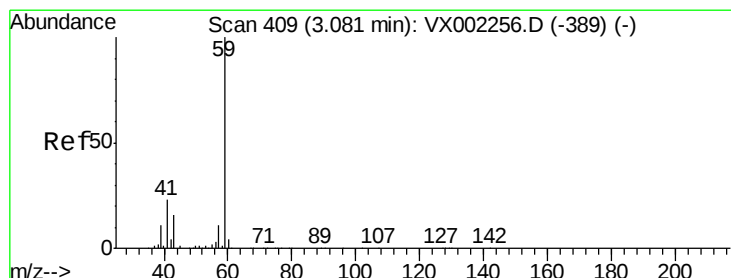
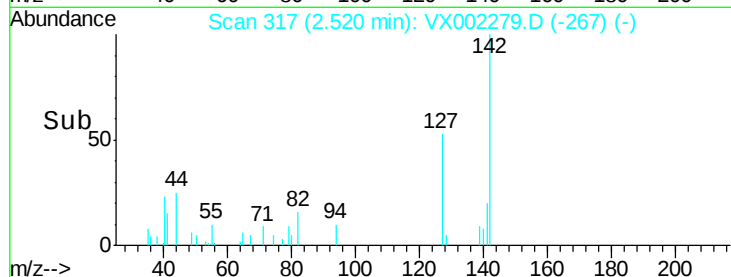
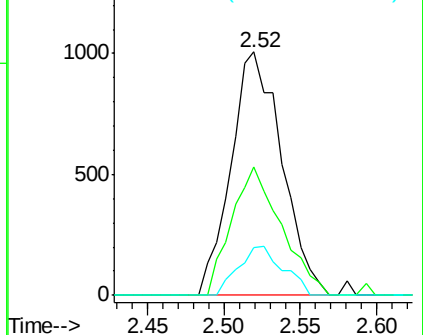
#10
Methyl Iodide
Concen: 0.56 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 2327
Ion Ratio Lower Upper
142 100
127 51.4 36.6 55.0
141 17.6 11.3 16.9#

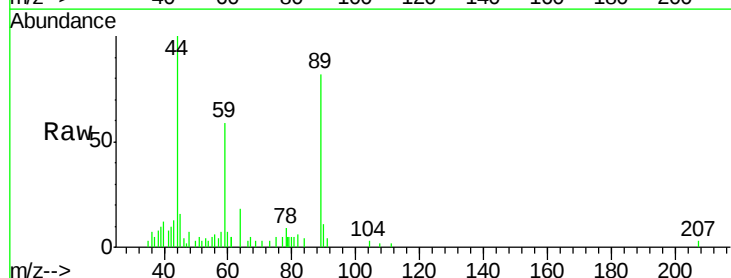


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

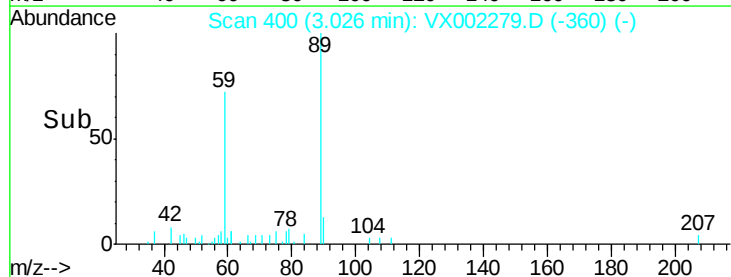
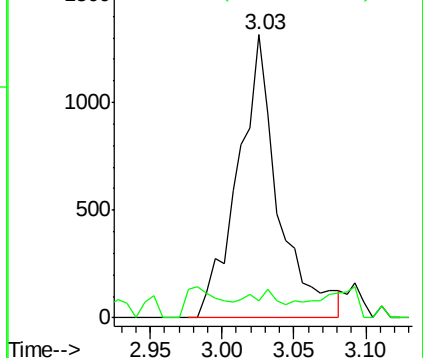


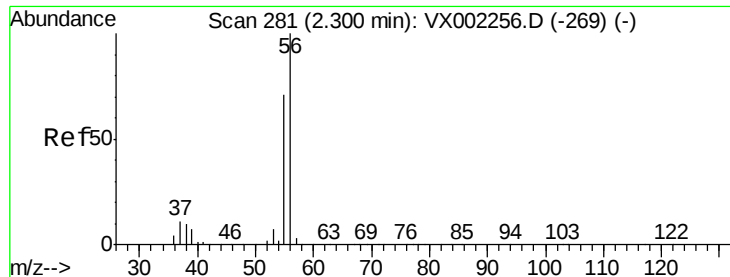
#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

Tgt Ion: 59 Resp: 2565
Ion Ratio Lower Upper
59 100
57 5.5 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: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

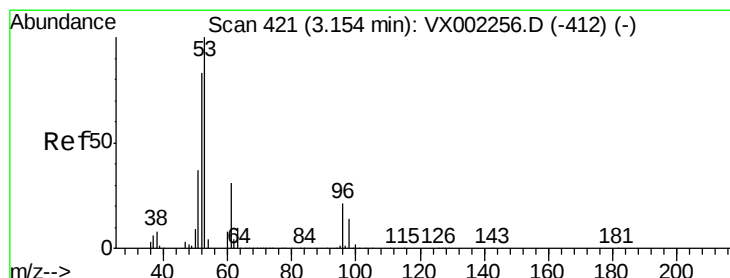
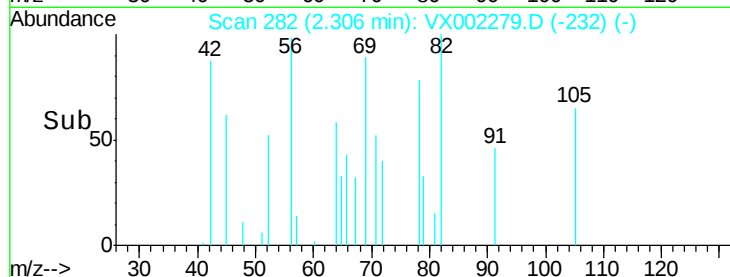
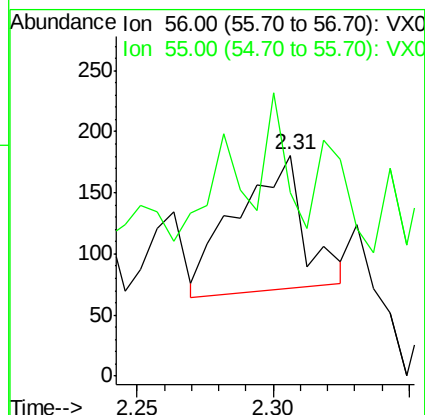
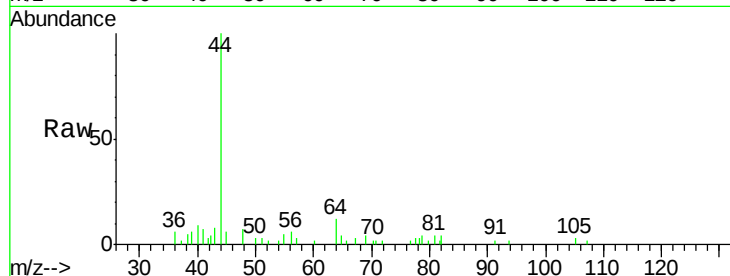
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 190

Ion Ratio Lower Upper

56 100

55 36.8 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

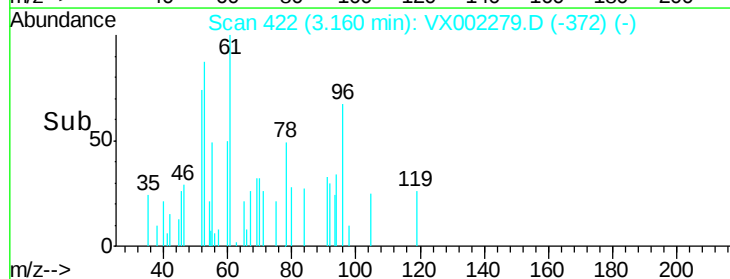
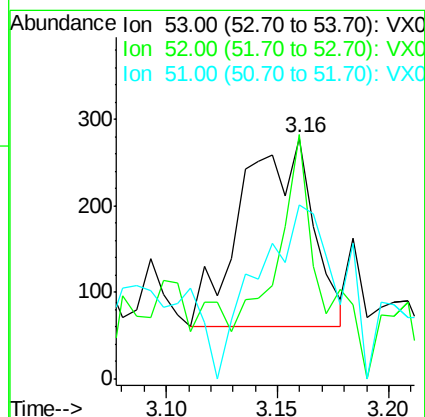
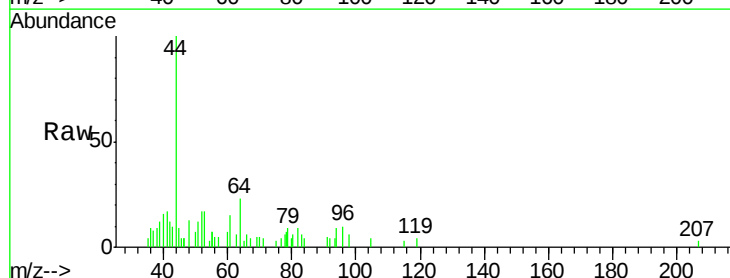
Tgt Ion: 53 Resp: 489

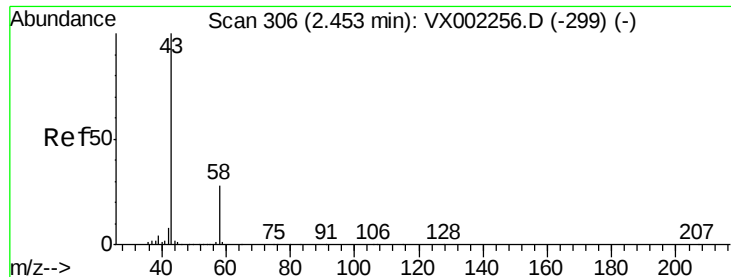
Ion Ratio Lower Upper

53 100

52 85.5 66.7 100.1

51 102.5 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.46 min Scan# 307

Delta R.T. 0.01 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

Instrument :

MSVOA_X

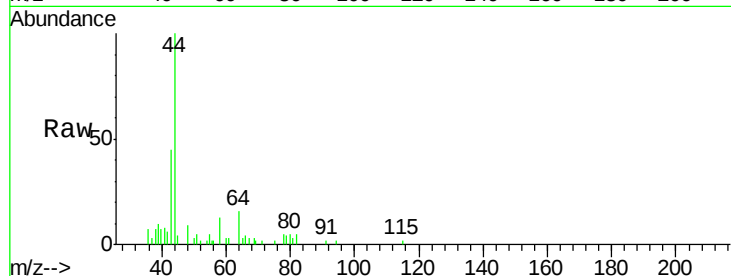
ClientSampleId :

Tot Ion: 43 Resp: 2396

Ion Ratio Lower Upper

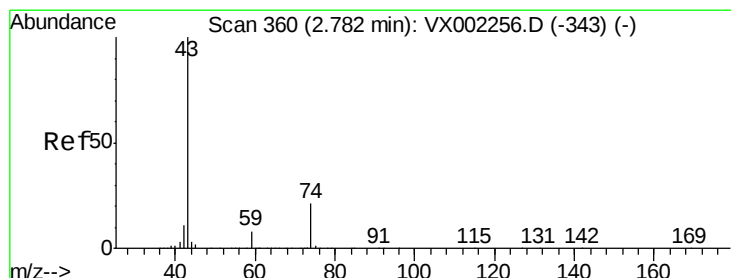
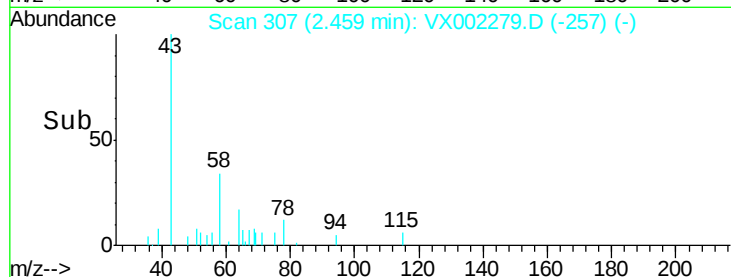
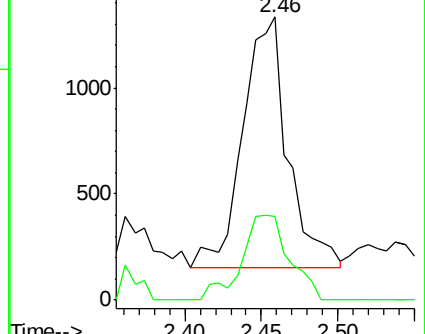
43 100

58 33.6 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.80 min Scan# 363

Delta R.T. 0.02 min

Lab File: VX002279.D

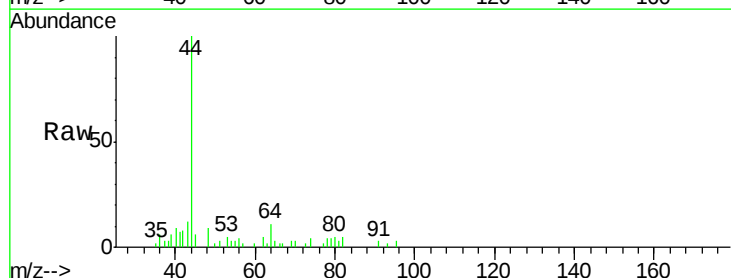
Acq: 05 Jun 2018 00:33

Tgt Ion: 43 Resp: 422

Ion Ratio Lower Upper

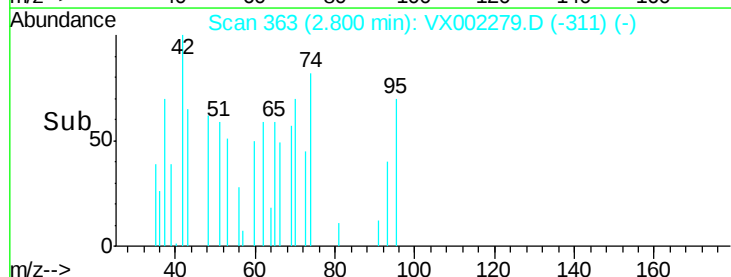
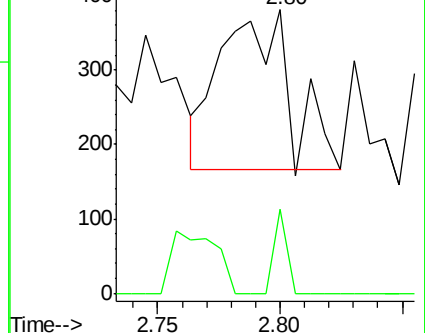
43 100

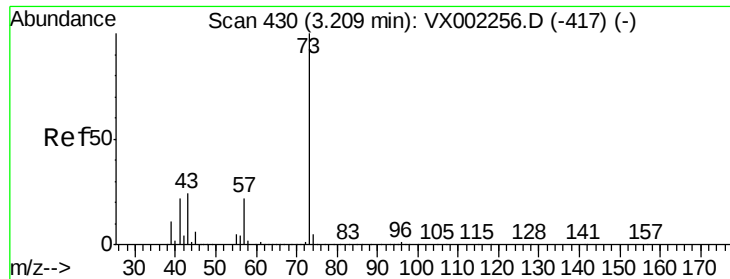
74 9.7 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



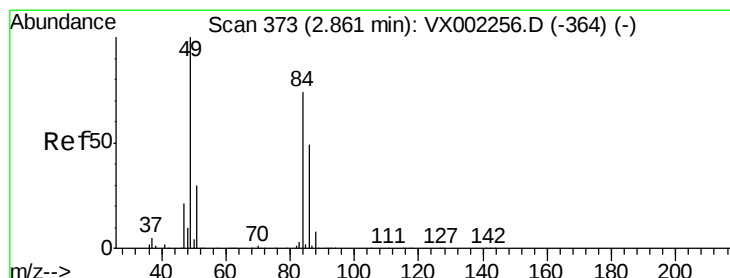
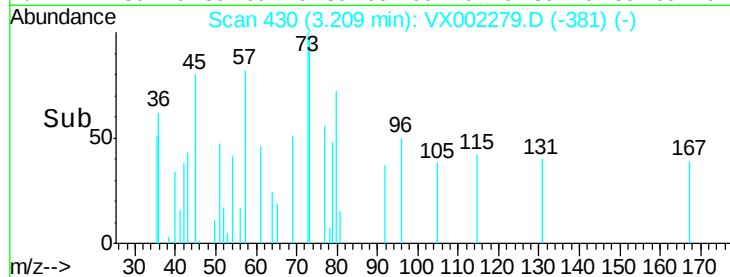
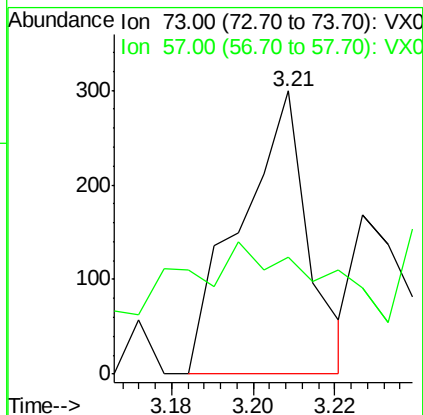
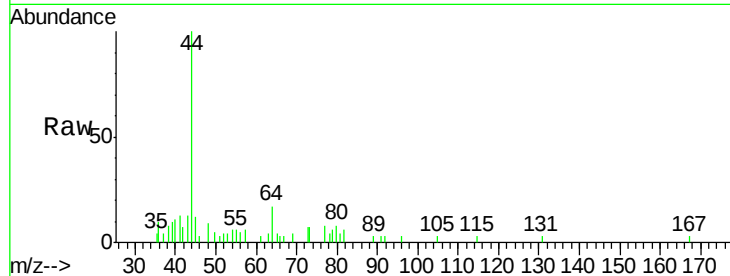


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

Instrument :
MSVOA_X
ClientSampled :

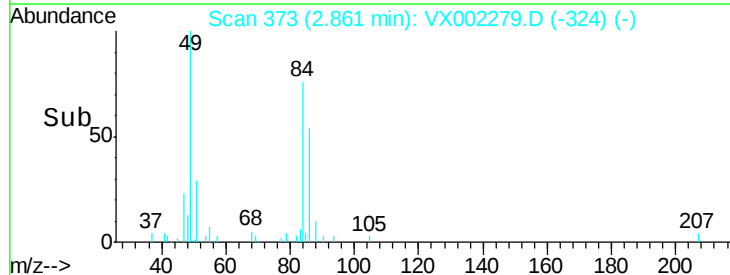
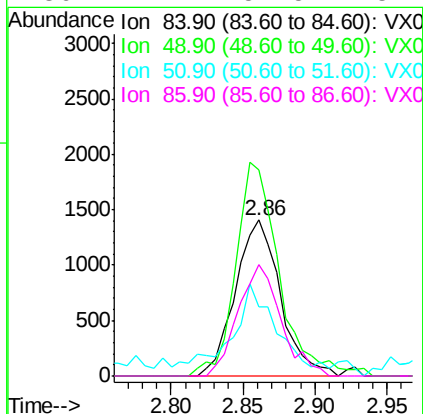
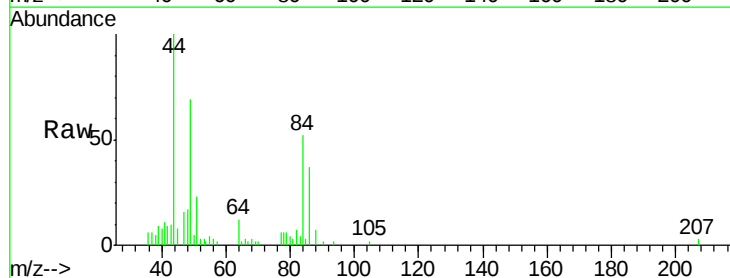
Tot Ion: 73 Resp: 347
Ion Ratio Lower Upper
73 100
57 4.7 17.7 26.5#

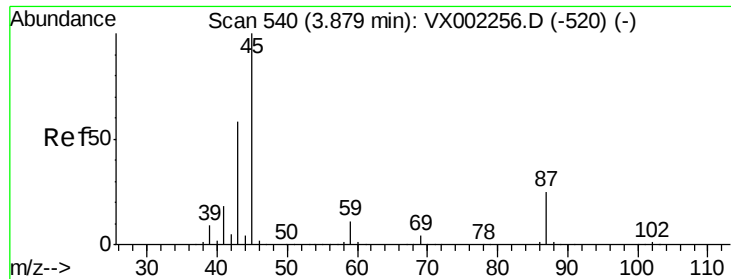


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

Tgt Ion: 84 Resp: 3051
Ion Ratio Lower Upper
84 100
49 132.0 107.8 161.6
51 36.3 32.8 49.2
86 71.4 52.5 78.7



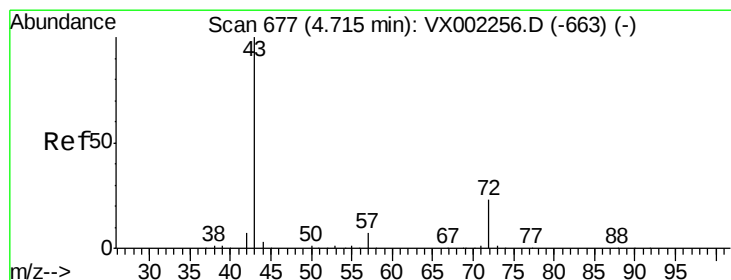
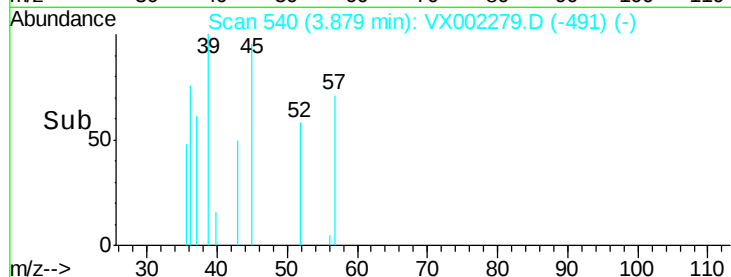
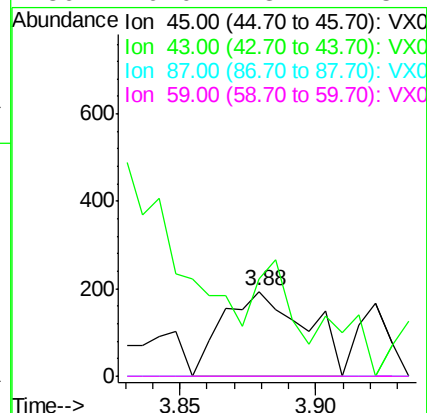
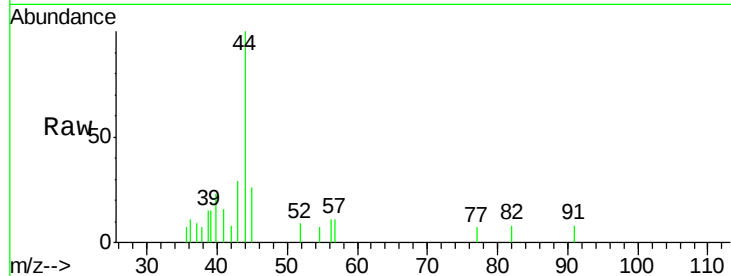


#22

Diisopropyl ether
 Concen: Below Cal
 RT: 3.88 min Scan# 540
 Delta R.T. 0.00 min
 Lab File: VX002279.D
 Acq: 05 Jun 2018 00:33

Instrument :
 MSVOA_X
 ClientSampled :

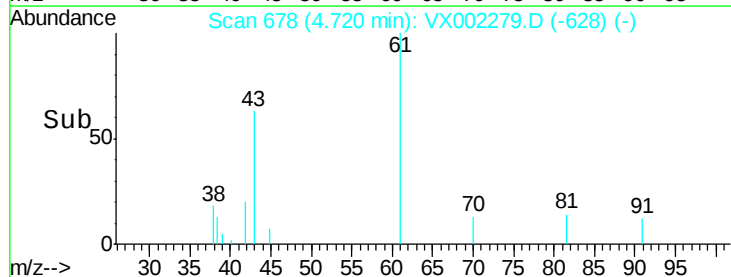
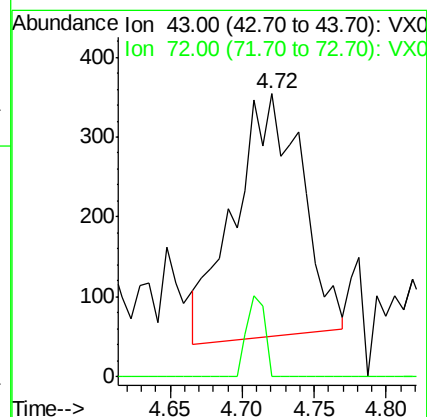
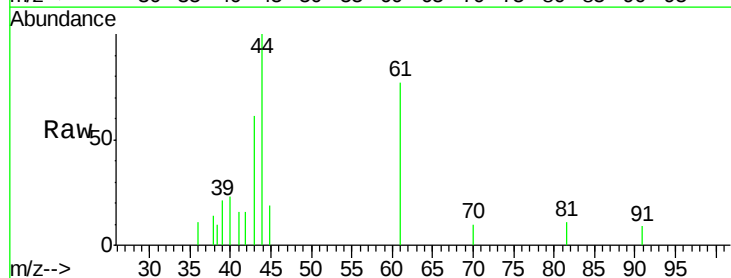
Tot Ion:	45	Resp:	406
Ion	Ratio	Lower	Upper
45	100		
43	63.9	46.8	70.2
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

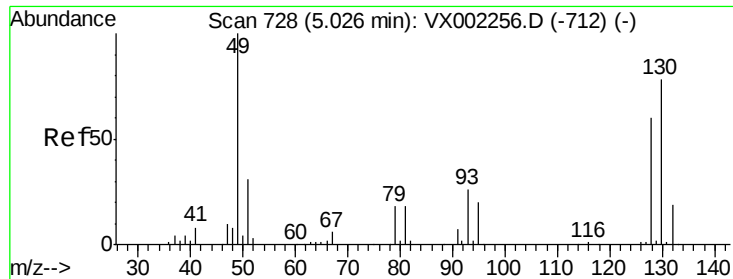


#25

2-Butanone
 Concen: 0.37 ug/l
 RT: 4.72 min Scan# 678
 Delta R.T. 0.01 min
 Lab File: VX002279.D
 Acq: 05 Jun 2018 00:33

Tgt Ion:	43	Resp:	990
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.5	27.7#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 727

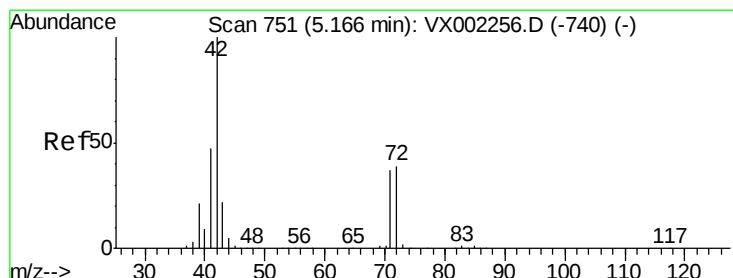
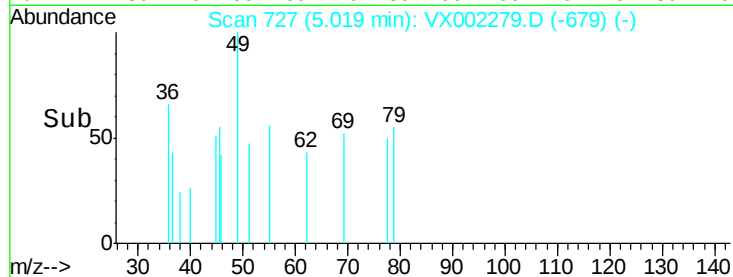
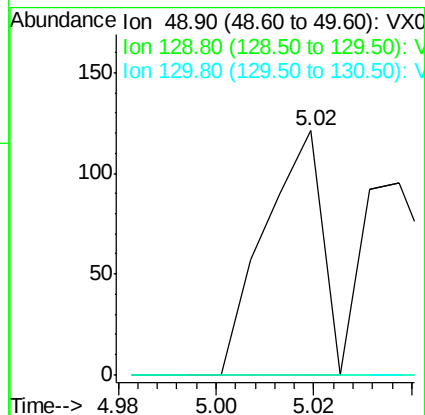
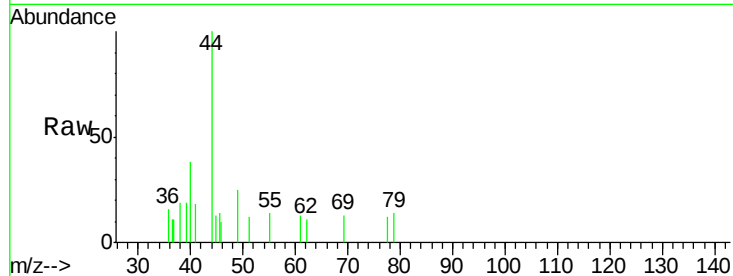
Delta R.T. -0.01 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 98
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 6.70 ug/l

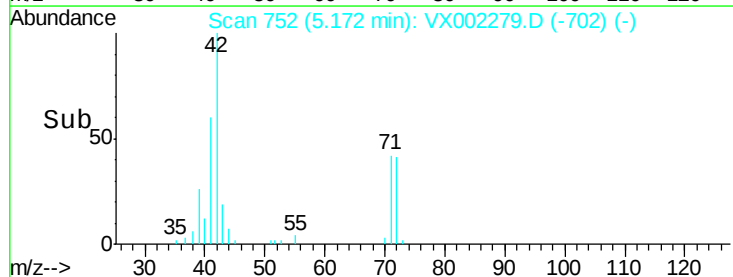
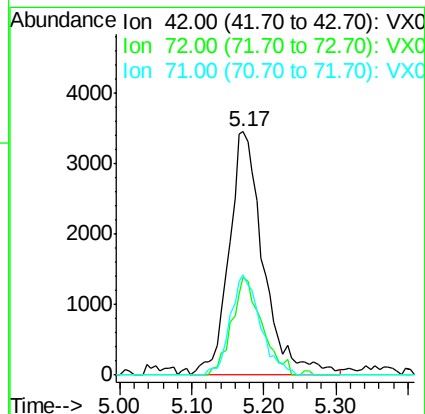
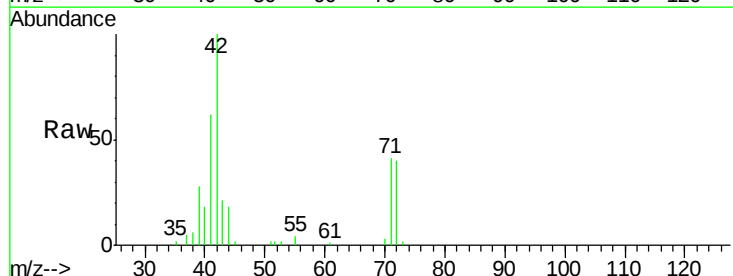
RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

Tgt Ion: 42 Resp: 11539
Ion Ratio Lower Upper
42 100
72 34.6 32.0 48.0
71 35.7 30.1 45.1





#33

1,2-Dichloroethane-d4

Concen: 47.32 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

Instrument :

MSVOA_X

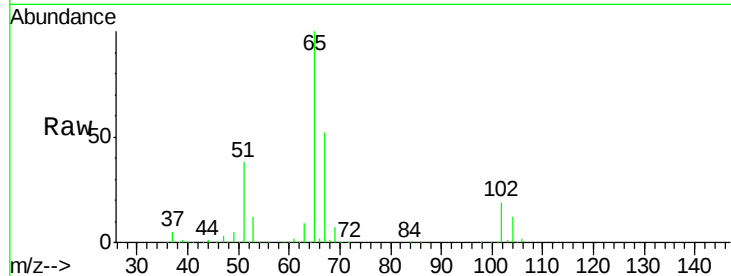
ClientSampleId :

Tot Ion: 65 Resp: 185033

Ion Ratio Lower Upper

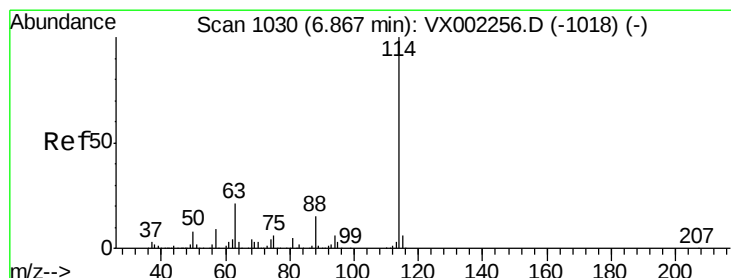
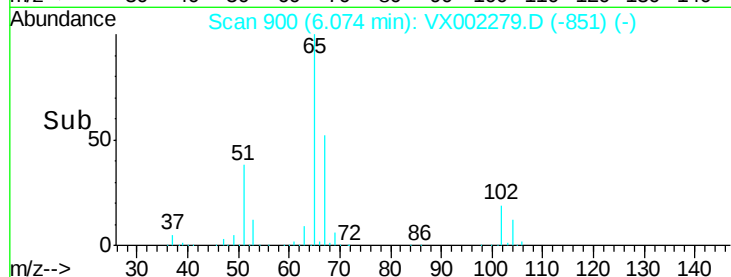
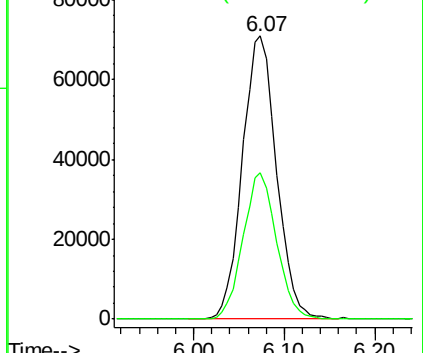
65 100

67 51.0 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

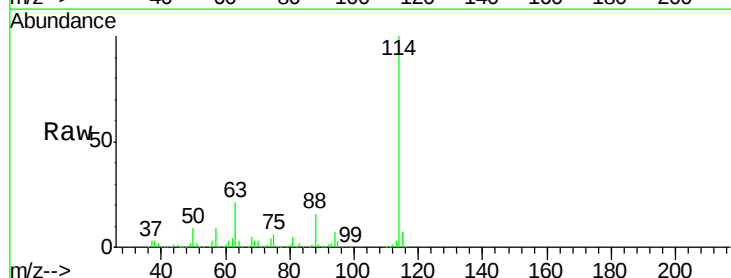
Tgt Ion: 114 Resp: 389429

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.4

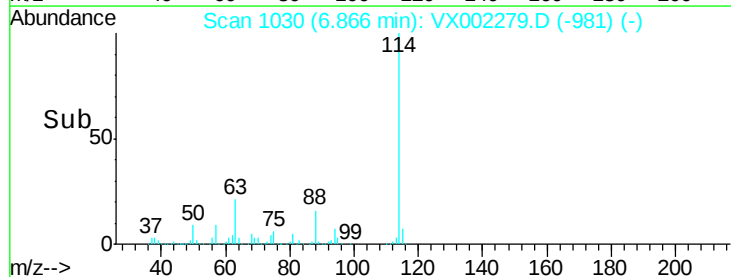
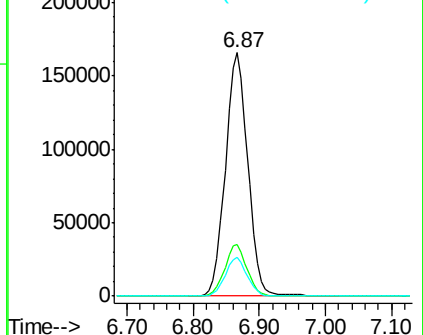
88 15.8 0.0 30.0

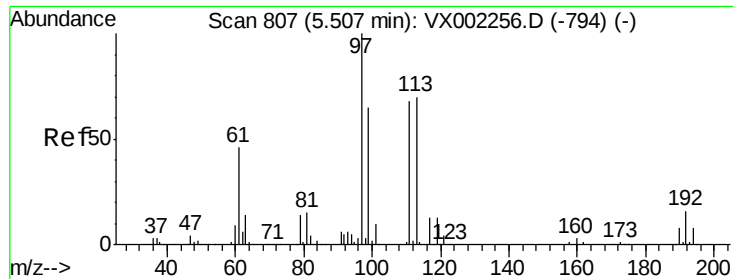


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

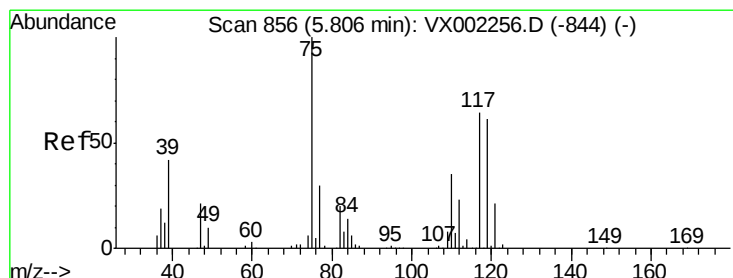
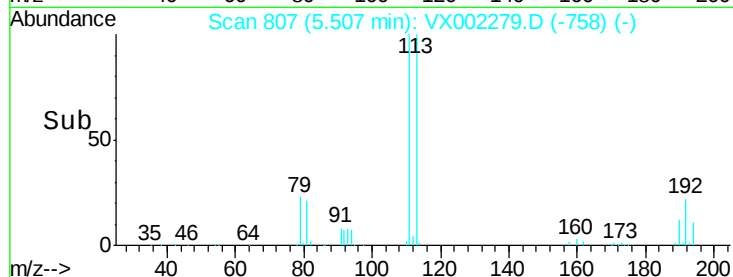
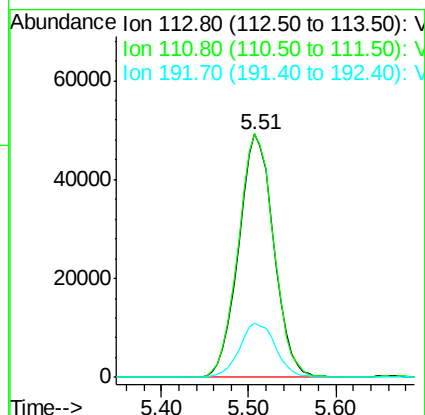
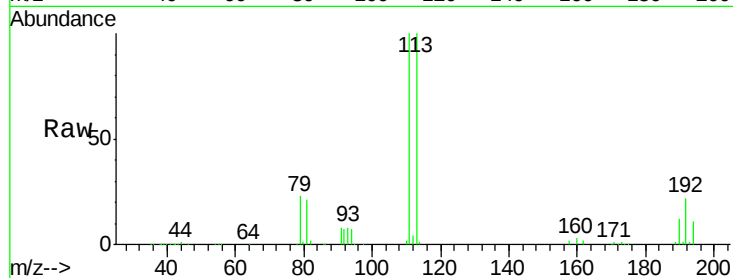




#35
Dibromofluoromethane
Concen: 44.82 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

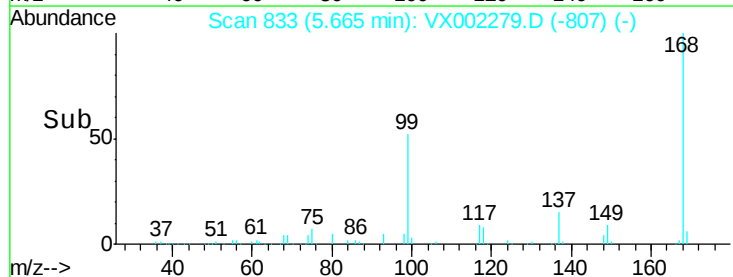
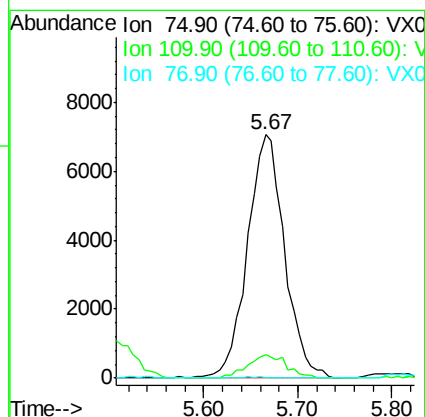
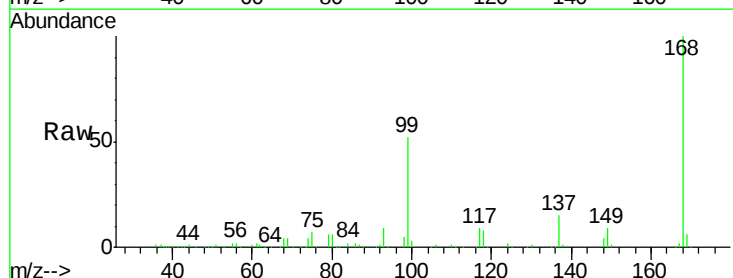
Instrument :
MSVOA_X
ClientSampleId :

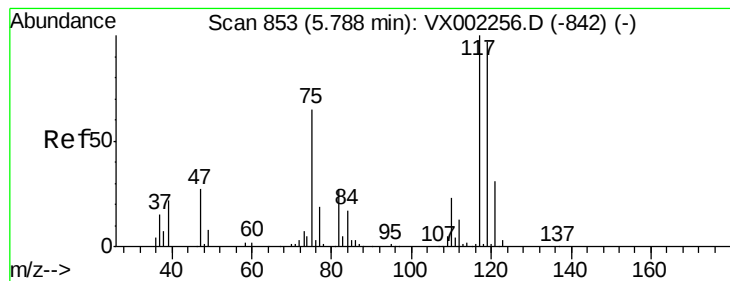
Tot Ion:113 Resp: 137267
Ion Ratio Lower Upper
113 100
111 101.2 81.4 122.0
192 22.9 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.76 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.14 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

Tgt Ion: 75 Resp: 19490
Ion Ratio Lower Upper
75 100
110 10.1 18.1 54.4#
77 0.2 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.04 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

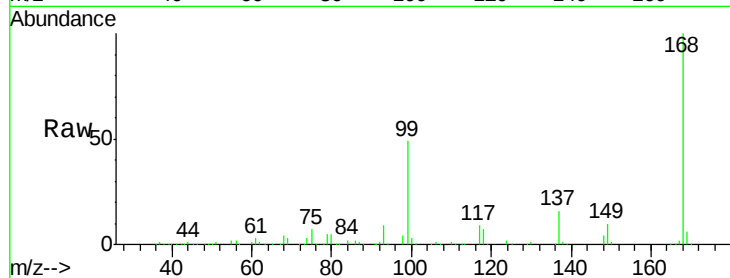
Tot Ion:117 Resp: 25888

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

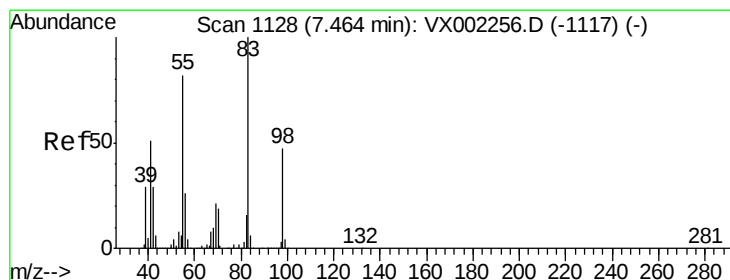
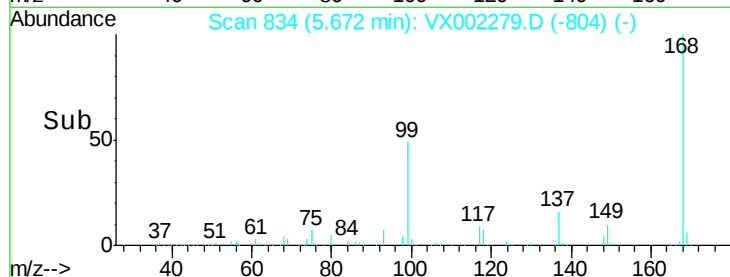
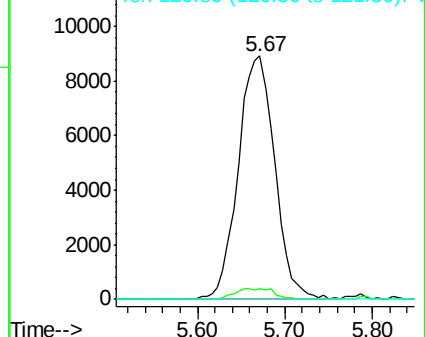
121 0.0 24.4 36.6#



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: 0.31 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

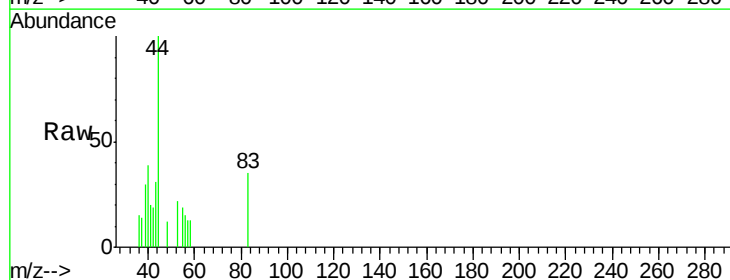
Tgt Ion: 83 Resp: 238

Ion Ratio Lower Upper

83 100

55 54.9 65.4 98.0#

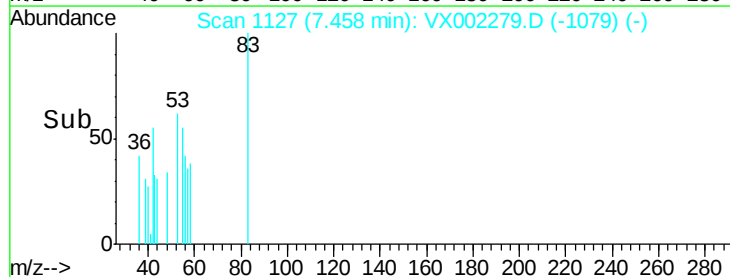
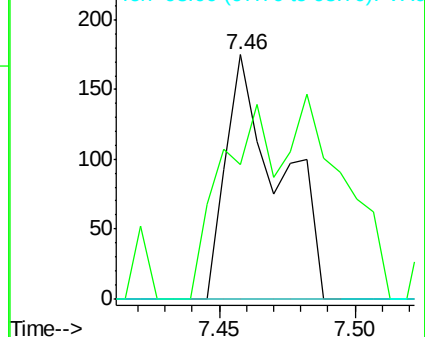
98 0.0 37.4 56.0#

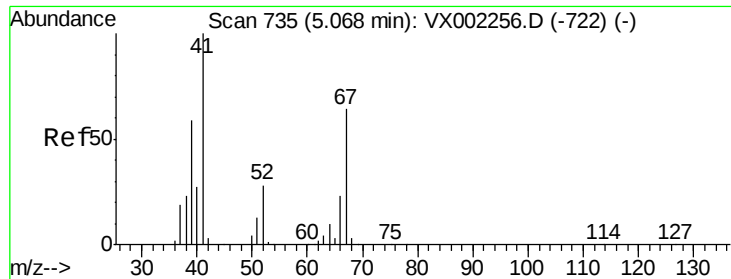


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

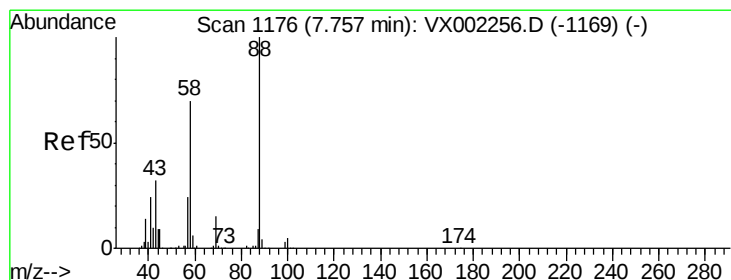
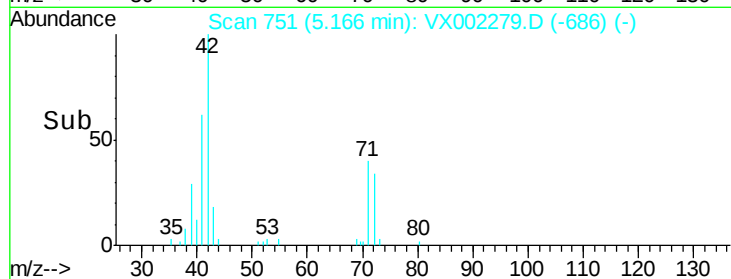
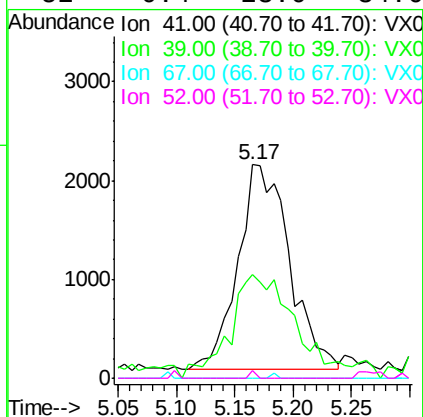
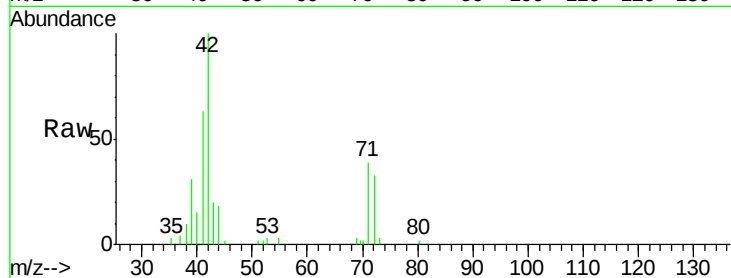




#41
Methacrylonitrile
Concen: 2.27 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.10 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

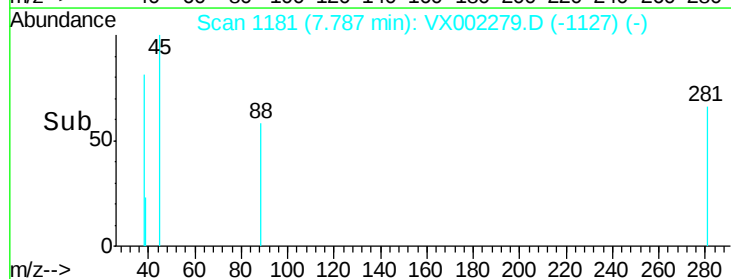
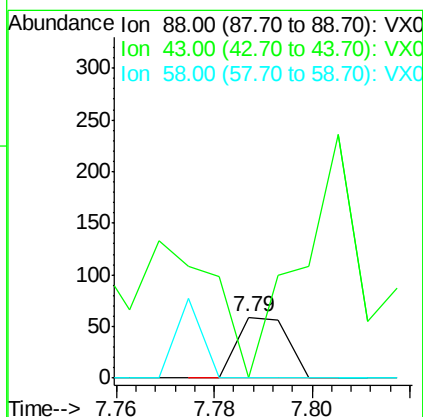
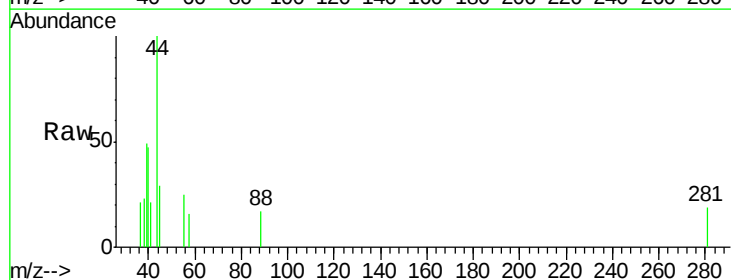
Instrument :
MSVOA_X
ClientSampleId :

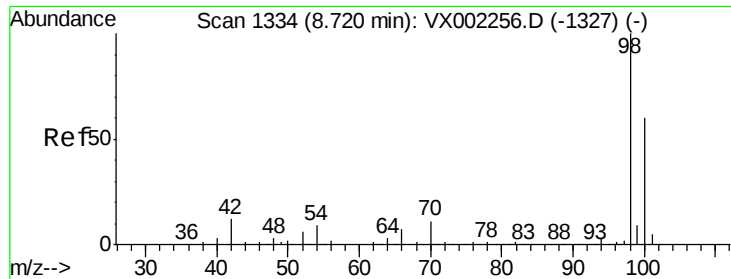
Tot Ion:	41	Resp:	6393
Ion	Ratio	Lower	Upper
41	100		
39	63.6	45.8	68.6
67	0.3	51.3	76.9#
52	0.4	23.0	34.6#



#49
1,4-Dioxane
Concen: 0.53 ug/l
RT: 7.79 min Scan# 1181
Delta R.T. 0.03 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

Tgt Ion:	88	Resp:	42
Ion	Ratio	Lower	Upper
88	100		
43	509.5	29.8	44.6#
58	0.0	57.1	85.7#

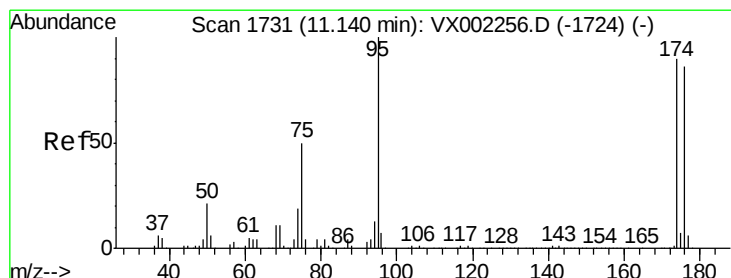
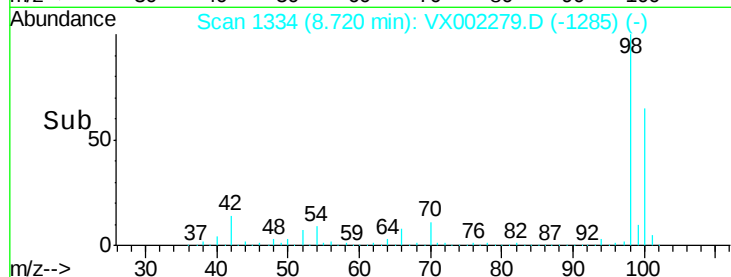
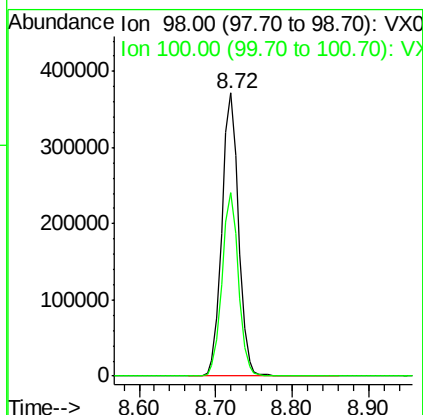
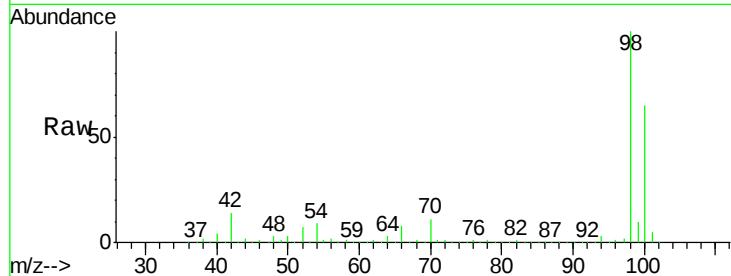




#50
Toluene-d8
Concen: 47.80 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

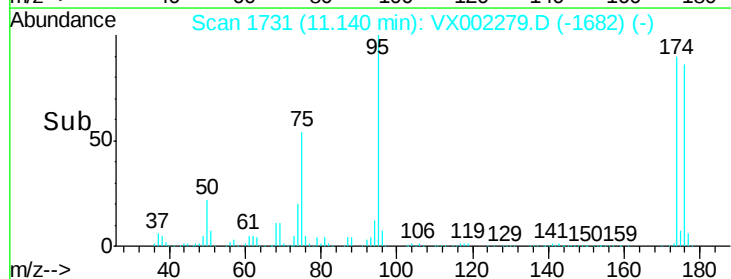
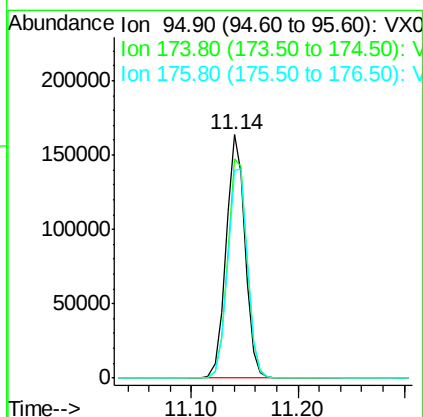
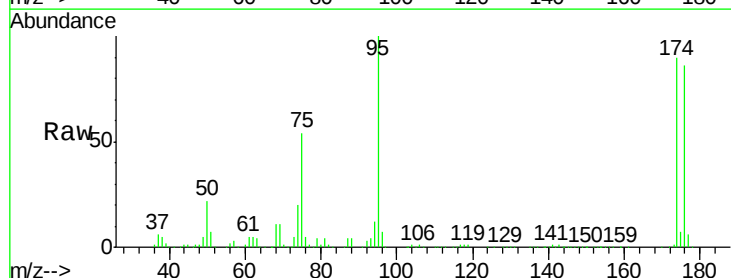
Instrument :
MSVOA_X
ClientSampleId :

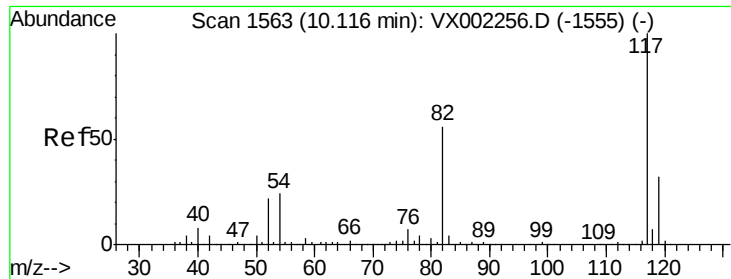
Tot Ion: 98 Resp: 561067
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.95 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

Tgt Ion: 95 Resp: 203453
Ion Ratio Lower Upper
95 100
174 93.3 0.0 187.4
176 90.9 0.0 181.0

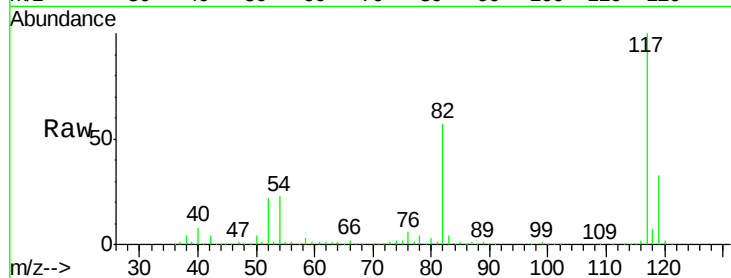




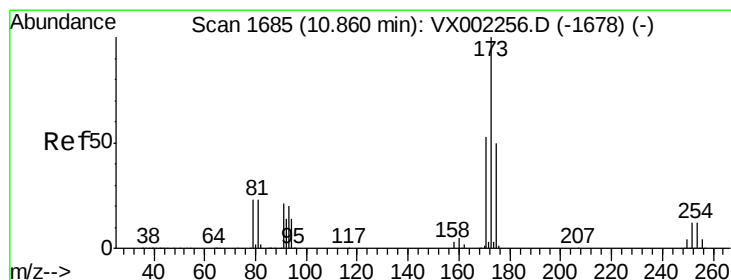
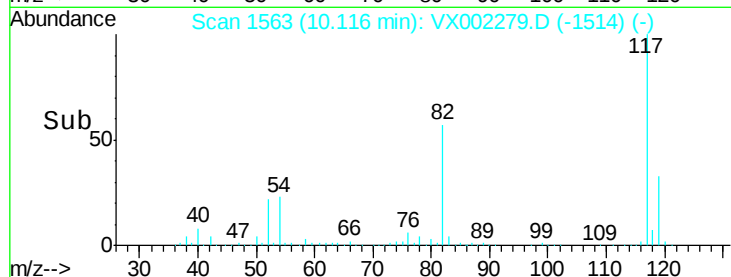
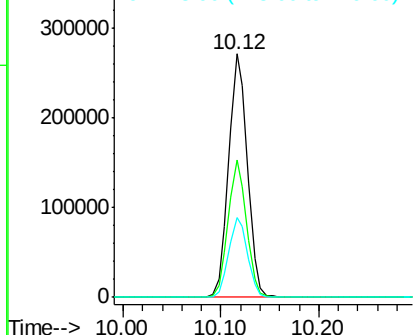
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 361761
Ion Ratio Lower Upper
117 100
82 56.6 45.0 67.4
119 33.0 25.8 38.6

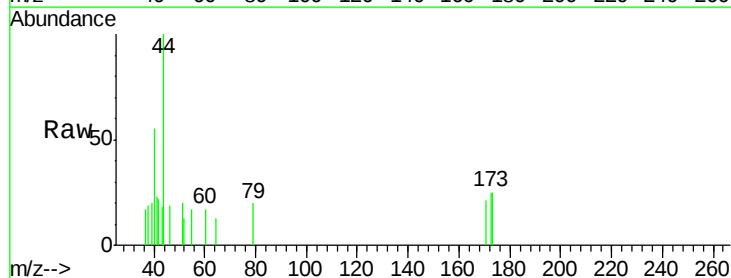


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

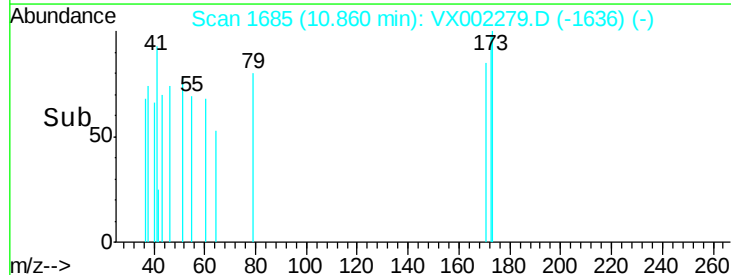
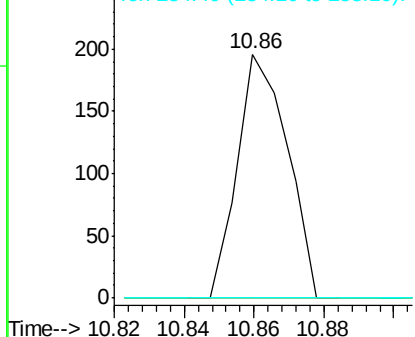


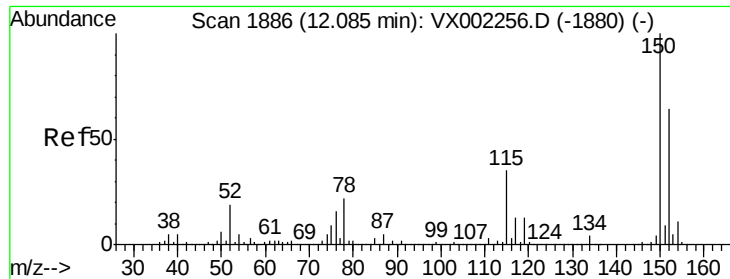
#71
Bromoform
Concen: 3.52 ug/l
RT: 10.86 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VX002279.D
Acq: 05 Jun 2018 00:33

Tgt Ion:173 Resp: 194
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX002279.D

Acq: 05 Jun 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

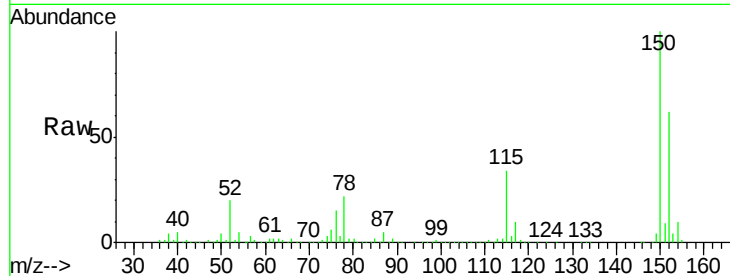
Tot Ion:152 Resp: 209024

Ion Ratio Lower Upper

152 100

115 56.0 40.1 120.2

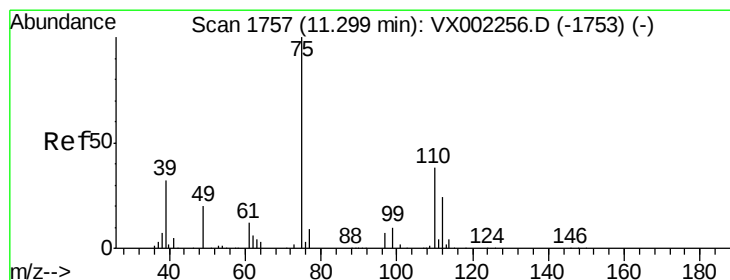
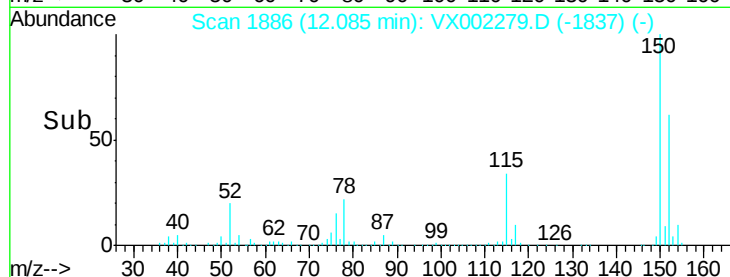
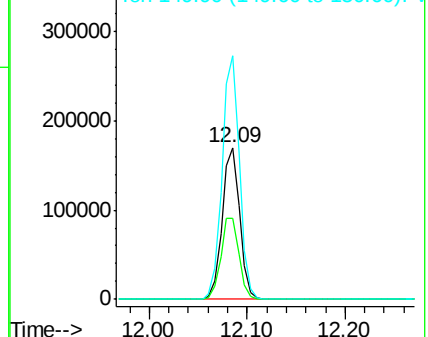
150 159.2 0.0 347.2



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: 24.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002279.D

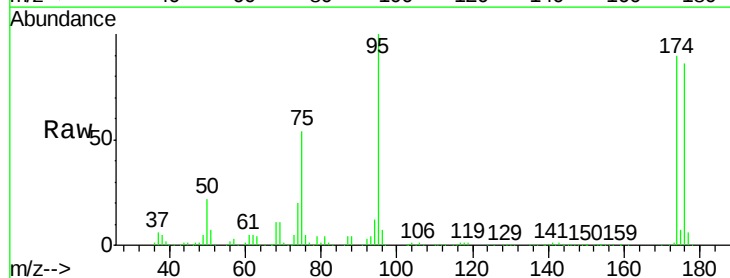
Acq: 05 Jun 2018 00:33

Tgt Ion: 75 Resp: 110299

Ion Ratio Lower Upper

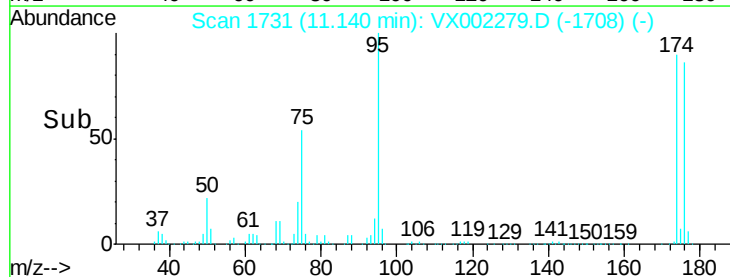
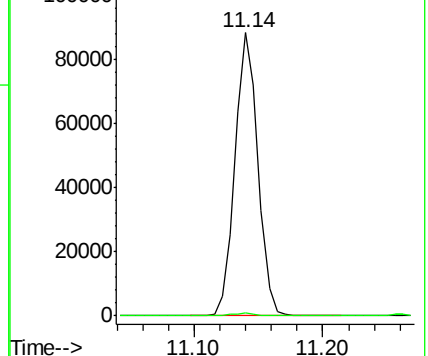
75 100

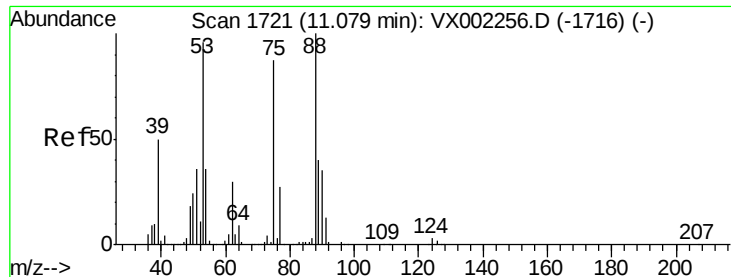
77 1.1 22.8 68.3#



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: 84.30 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

Instrument :

MSVOA_X

ClientSampled :

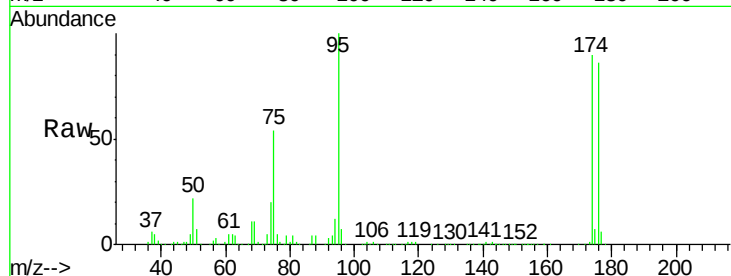
Tot Ion: 75 Resp: 110299

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

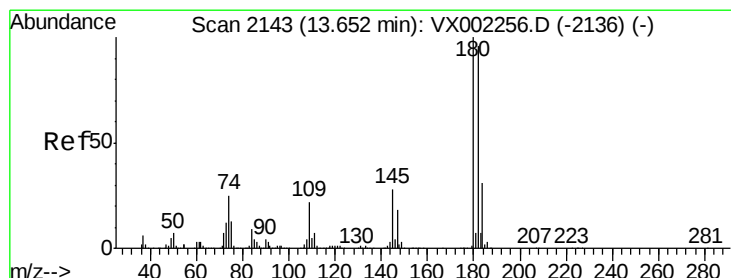
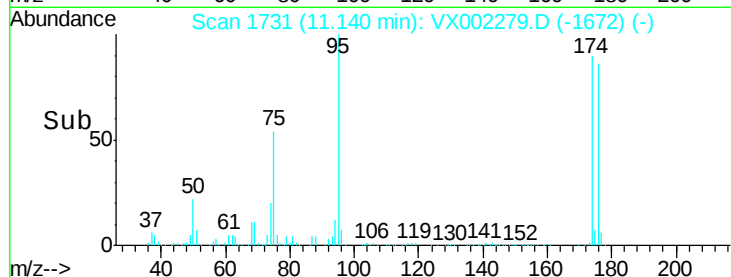
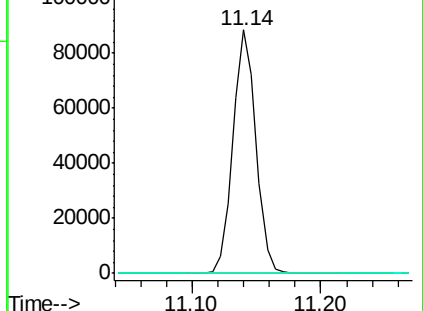
89 0.0 38.2 57.2#



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: 0.24 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX002279.D

Acq: 05 Jun 2018 00:33

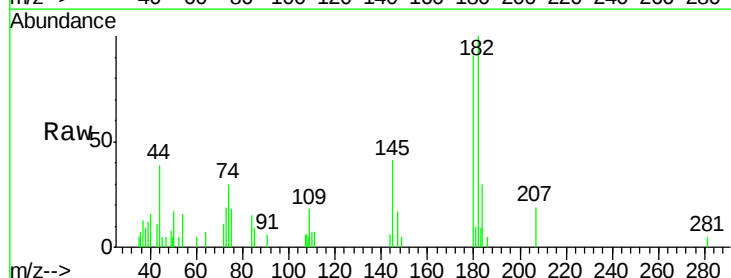
Tgt Ion:180 Resp: 1278

Ion Ratio Lower Upper

180 100

182 101.9 47.7 143.1

145 34.5 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

