

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002312.D
 Acq On : 05 Jun 2018 18:11
 Operator : JC/MD
 Sample : J3268-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:33:13 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	232964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	340873	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	317717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	177761	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	165396	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
35) Dibromofluoromethane	5.51	113	120159	44.82	ug/l	0.00
Spiked Amount			Recovery	=	89.64%	
50) Toluene-d8	8.72	98	494299	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
62) 4-Bromofluorobenzene	11.14	95	174879	44.14	ug/l	0.00
Spiked Amount			Recovery	=	88.28%	

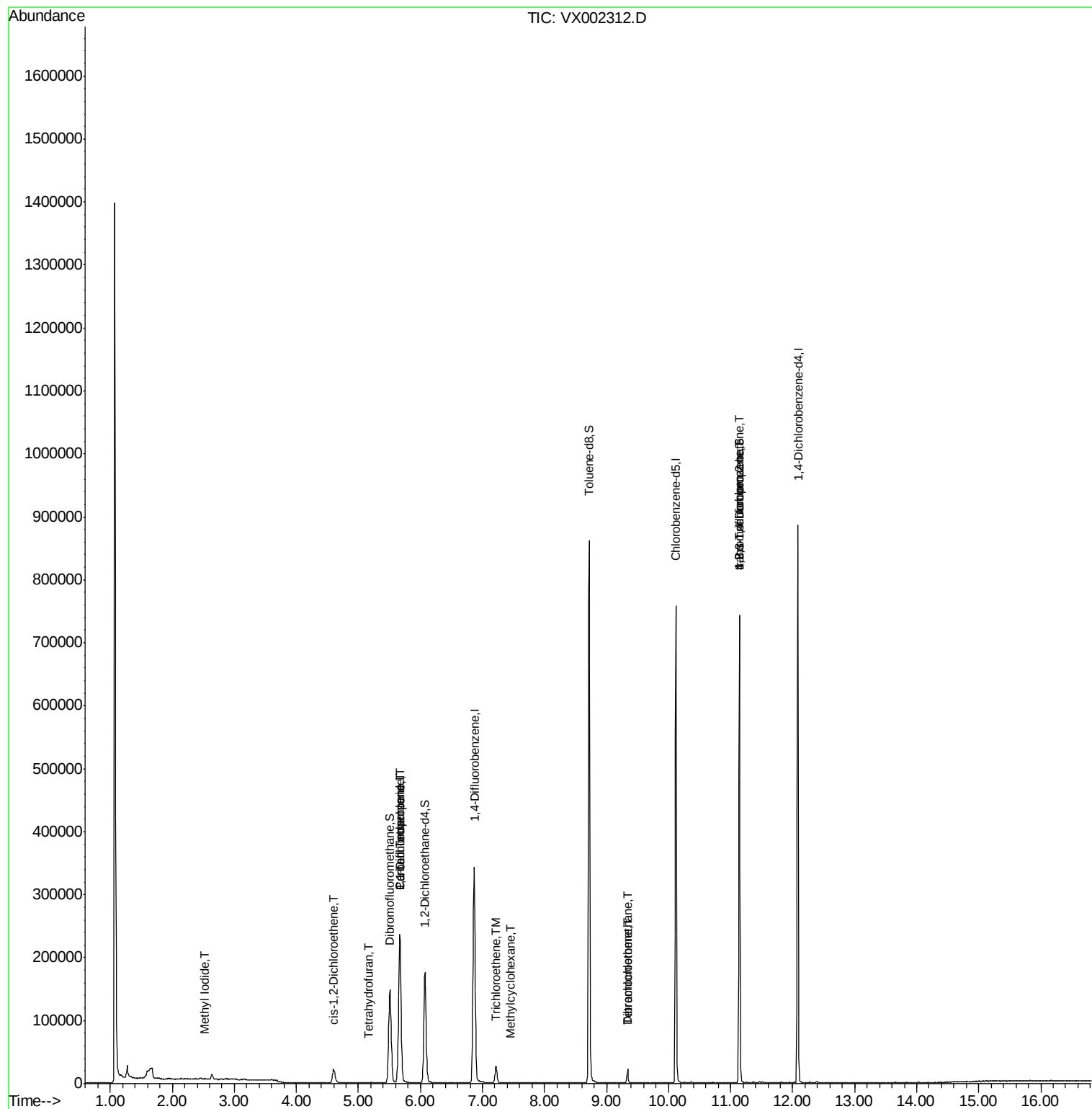
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	601	Below Cal	#	34
5) Bromomethane	1.64	94	1507	Below Cal	#	71
8) Diethyl Ether	2.06	74	83	Below Cal		87
10) Methyl Iodide	2.52	142	977	0.28	ug/l	85
11) Tert butyl alcohol	3.07	59	84	Below Cal	#	1
13) Acrolein	2.32	56	384	Below Cal	#	40
15) Acrylonitrile	3.15	53	140	Below Cal	#	1
16) Acetone	2.45	43	3299	Below Cal	#	88
18) Methyl Acetate	2.78	43	405	Below Cal	#	83
19) Methyl tert-butyl Ether	3.20	73	104	Below Cal	#	54
20) Methylene Chloride	2.86	84	815	Below Cal	#	71
22) Diisopropyl ether	3.88	45	98	Below Cal	#	35
27) cis-1,2-Dichloroethene	4.60	96	12888	4.33	ug/l	91
28) Bromochloromethane	5.02	49	22	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	372	0.25	ug/l	36
36) 1,1-Dichloropropene	5.67	75	16658	4.65	ug/l	51
38) Carbon Tetrachloride	5.67	117	21720	5.79	ug/l	15
39) Methylcyclohexane	7.45	83	137	0.29	ug/l	70
44) Trichloroethene	7.22	130	10484	3.44	ug/l	97
60) Dibromochloromethane	9.34	129	3751	1.30	ug/l	11
64) Tetrachloroethene	9.34	164	4327	1.32	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	94445	24.21	ug/l	32
81) trans-1,4-Dichloro-2-buten	11.14	75	94445	84.88	ug/l	7

(#) = 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# 833

Delta R.T. -0.01 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

Instrument :

MSVOA_X

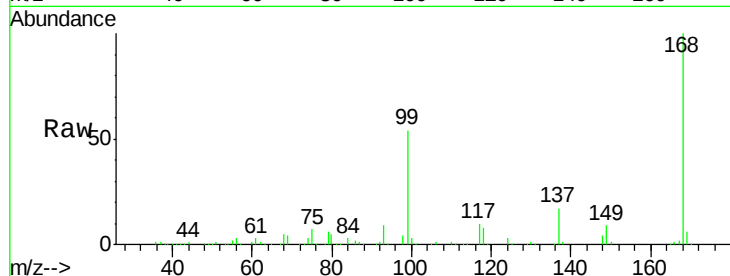
ClientSampleId :

Tot Ion:168 Resp: 232964

Ion Ratio Lower Upper

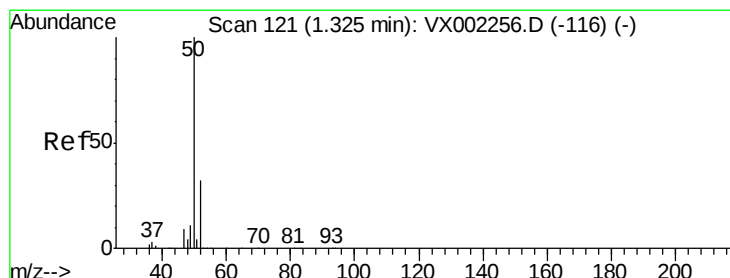
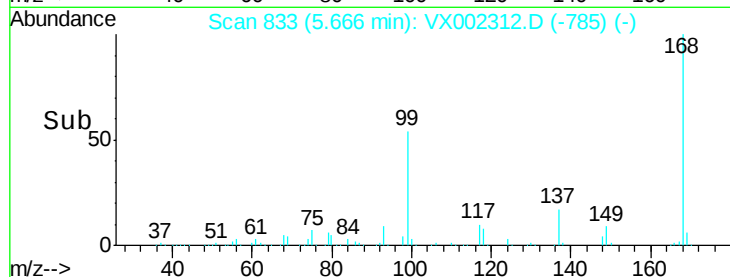
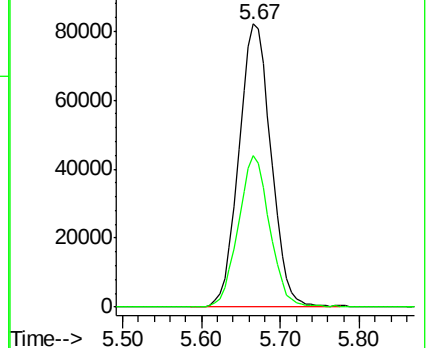
168 100

99 53.6 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: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002312.D

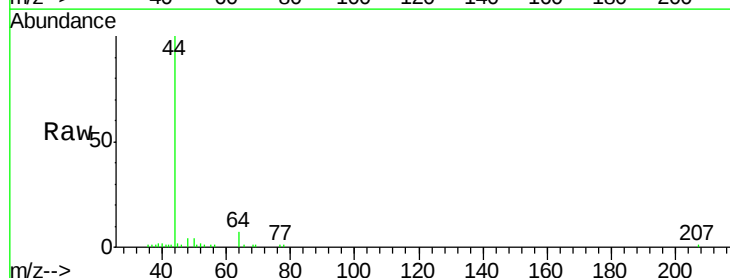
Acq: 05 Jun 2018 18:11

Tgt Ion: 50 Resp: 601

Ion Ratio Lower Upper

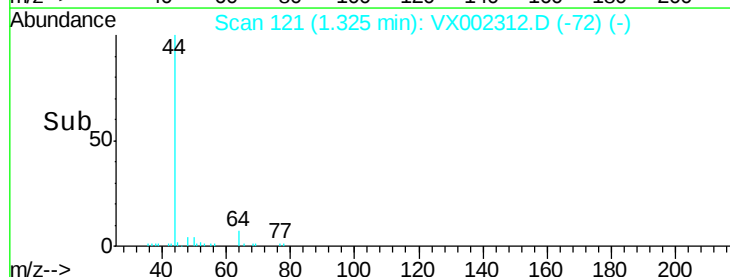
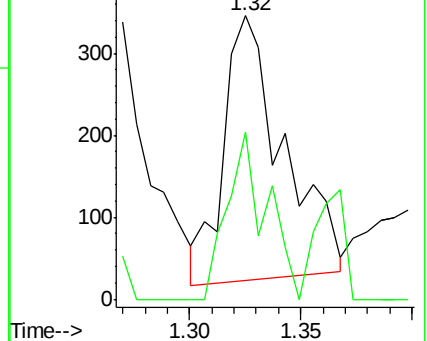
50 100

52 69.2 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: VX002312.D

Acq: 05 Jun 2018 18:11

Instrument :

MSVOA_X

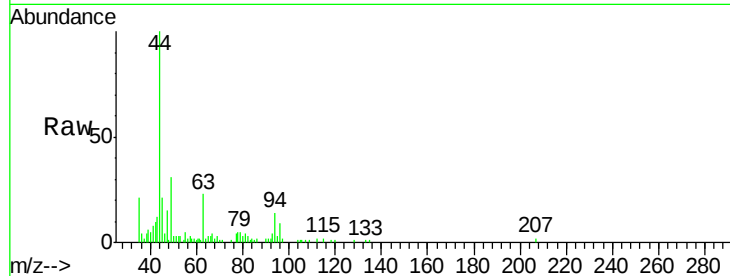
ClientSampled :

Tot Ion: 94 Resp: 1507

Ion Ratio Lower Upper

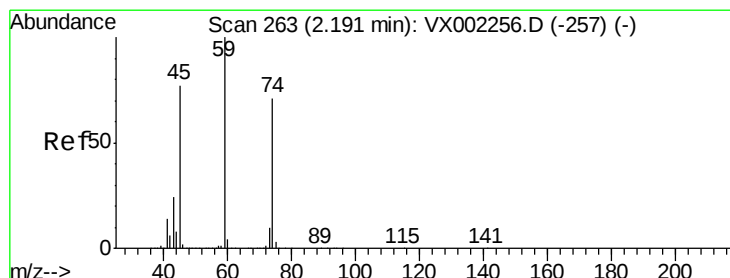
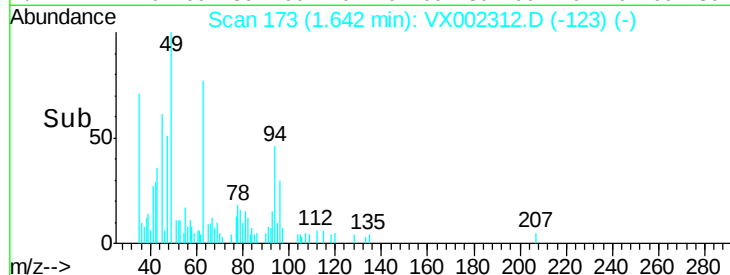
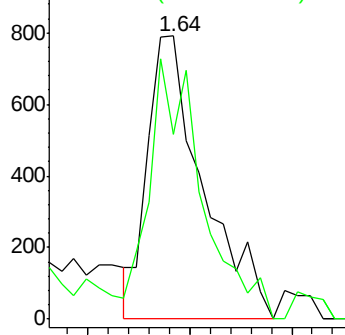
94 100

96 65.5 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: 2.06 min Scan# 242

Delta R.T. -0.13 min

Lab File: VX002312.D

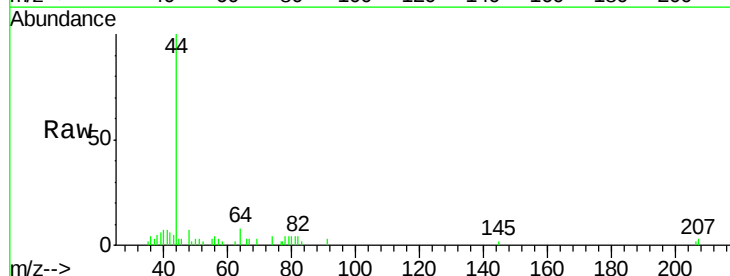
Acq: 05 Jun 2018 18:11

Tgt Ion: 74 Resp: 83

Ion Ratio Lower Upper

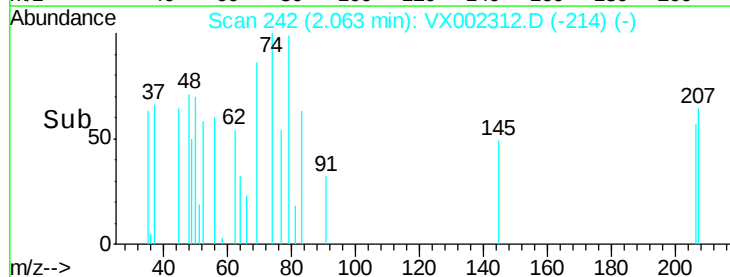
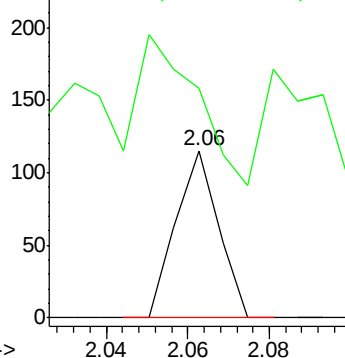
74 100

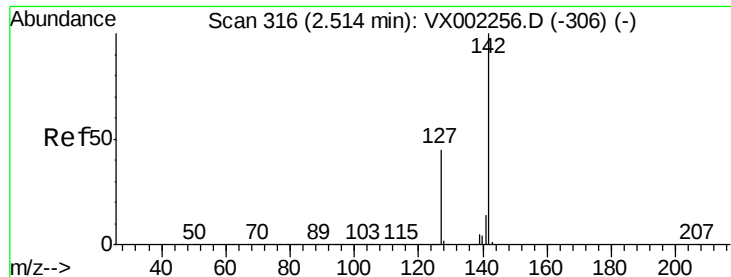
45 119.3 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

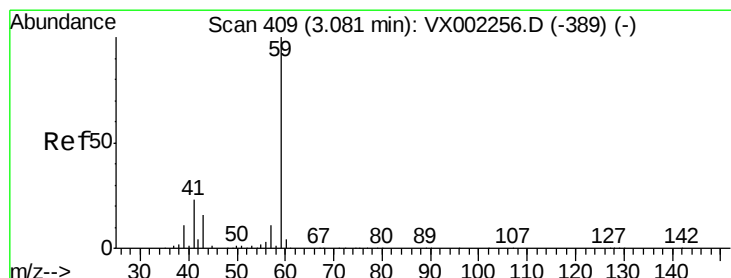
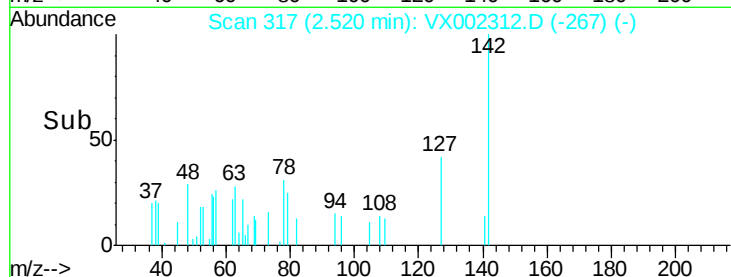
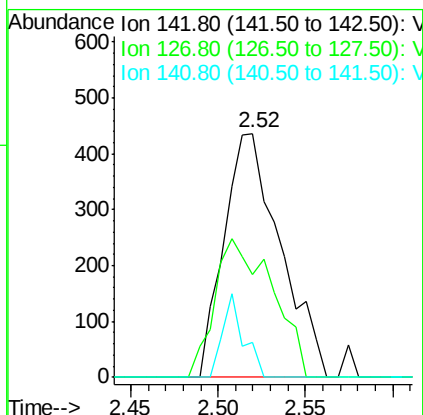
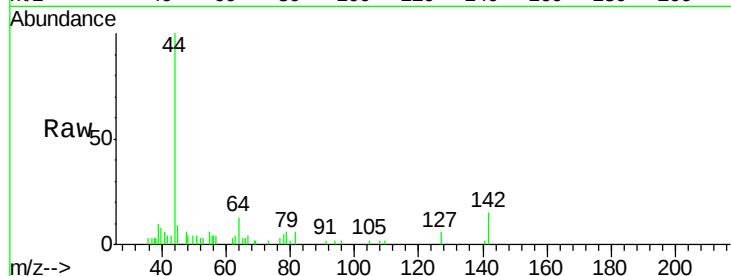




#10
Methyl Iodide
Concen: 0.28 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

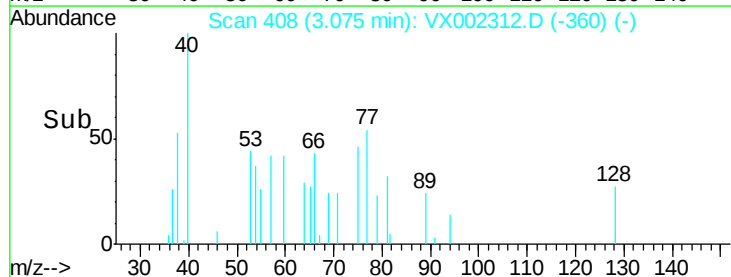
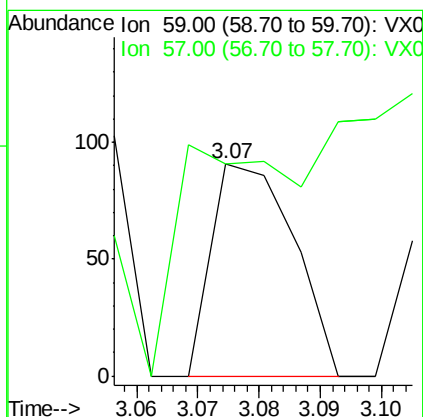
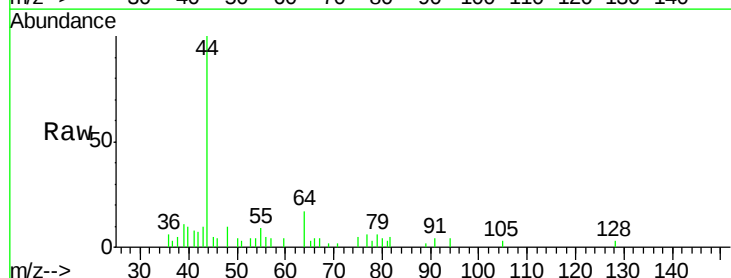
Instrument :
MSVOA_X
ClientSampled :

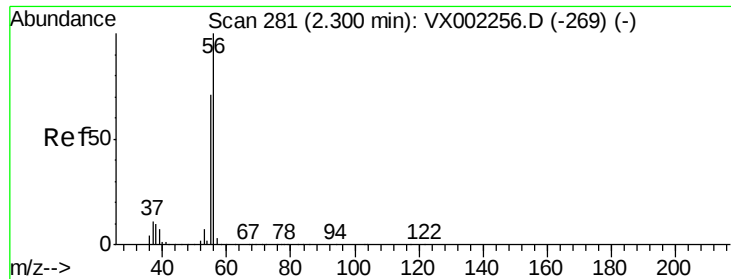
Tot Ion:142 Resp: 977
Ion Ratio Lower Upper
142 100
127 58.2 36.6 55.0#
141 12.5 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

Tgt Ion: 59 Resp: 84
Ion Ratio Lower Upper
59 100
57 158.3 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.32 min Scan# 284

Delta R.T. 0.02 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

Instrument :

MSVOA_X

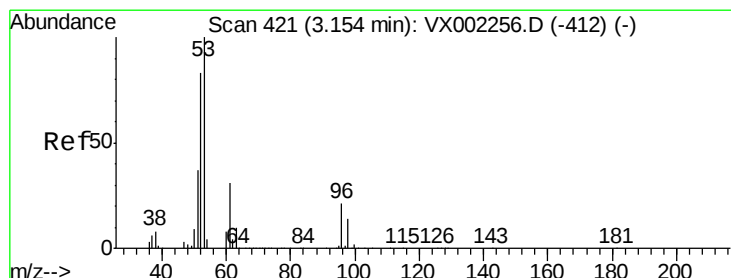
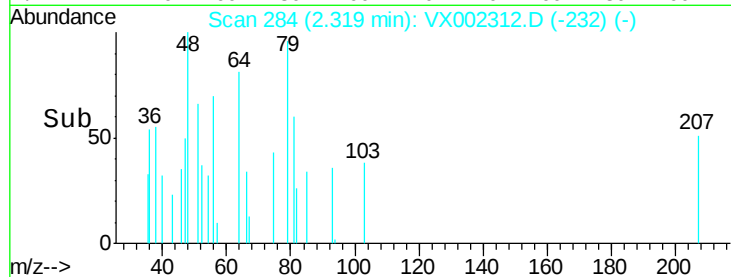
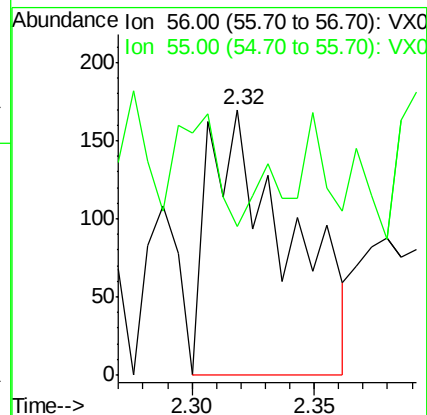
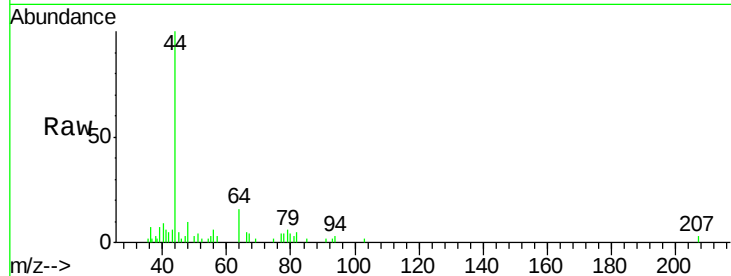
ClientSampled :

Tot Ion: 56 Resp: 384

Ion Ratio Lower Upper

56 100

55 21.9 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

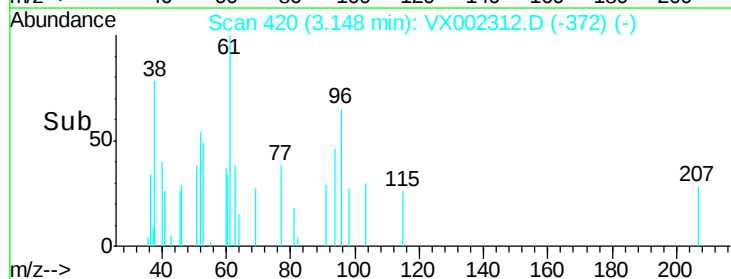
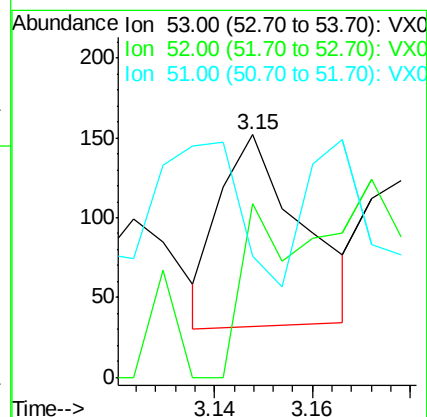
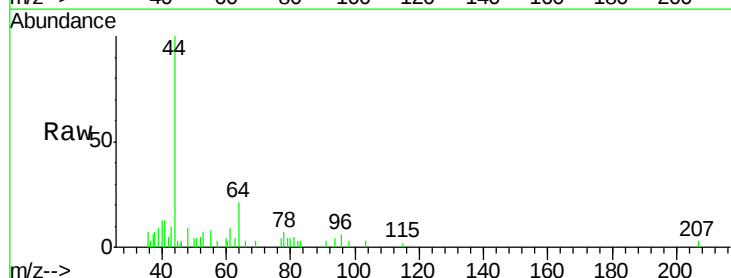
Tgt Ion: 53 Resp: 140

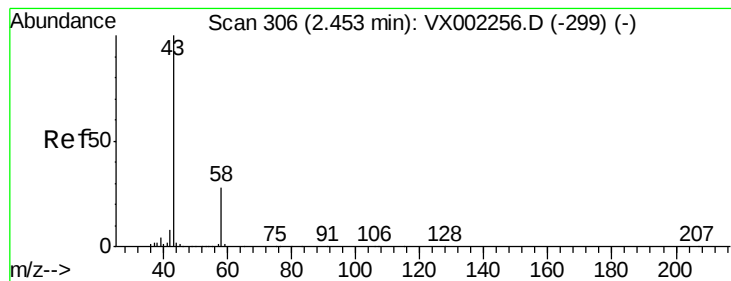
Ion Ratio Lower Upper

53 100

52 17.1 66.7 100.1#

51 232.9 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

Instrument :

MSVOA_X

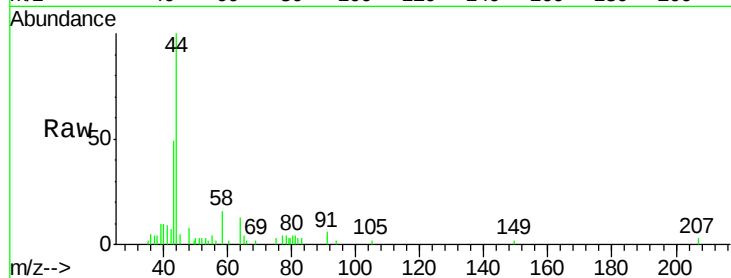
ClientSampled :

Tot Ion: 43 Resp: 3299

Ion Ratio Lower Upper

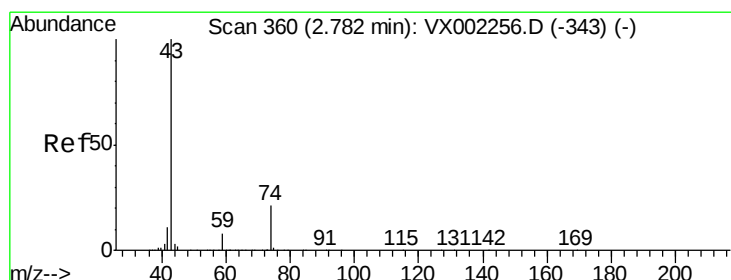
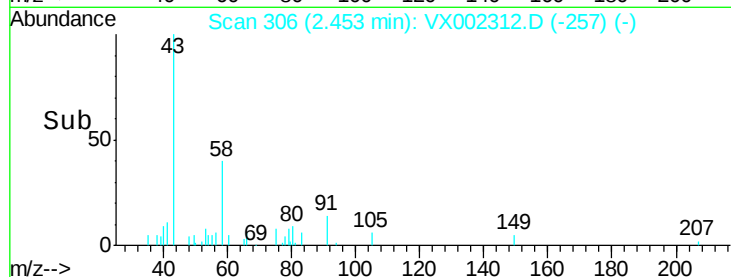
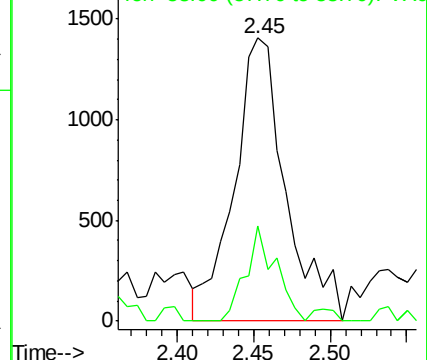
43 100

58 33.8 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: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002312.D

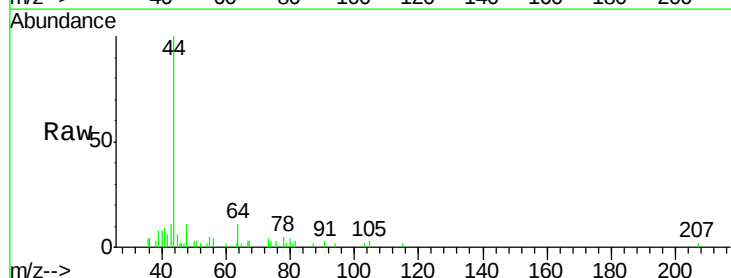
Acq: 05 Jun 2018 18:11

Tgt Ion: 43 Resp: 405

Ion Ratio Lower Upper

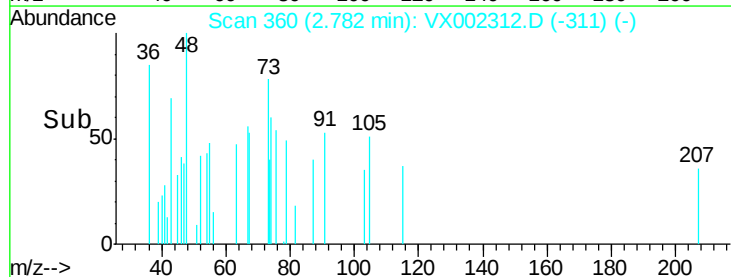
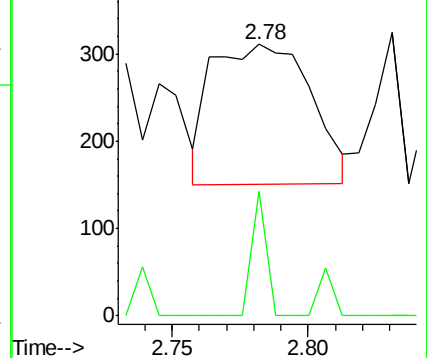
43 100

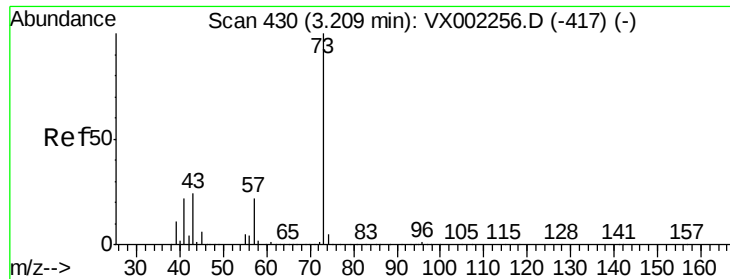
74 12.8 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

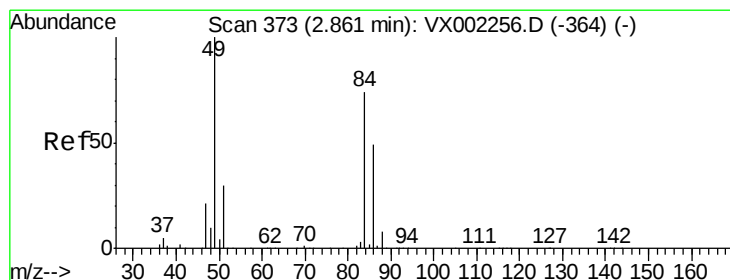
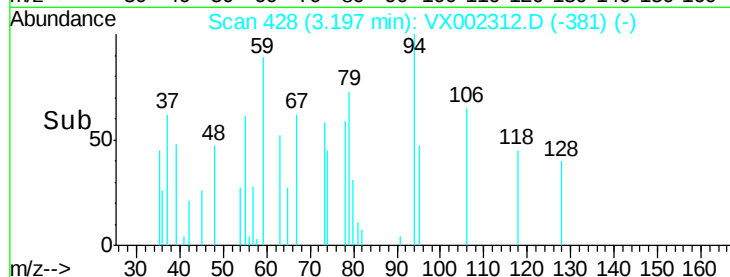
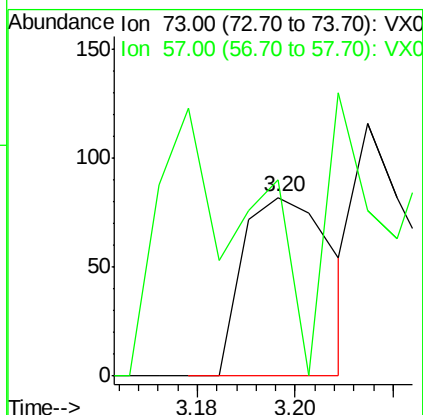
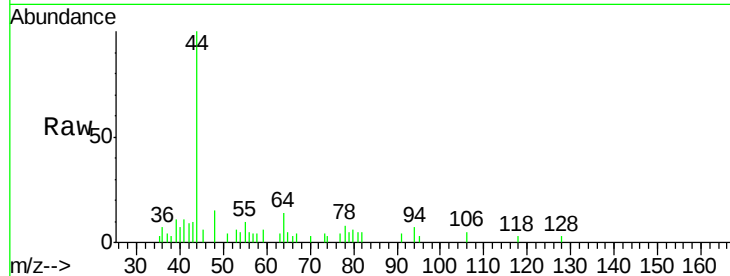




#19
Methvl tert-butvl Ether
Concen: Below Cal
RT: 3.20 min Scan# 428
Delta R.T. -0.01 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

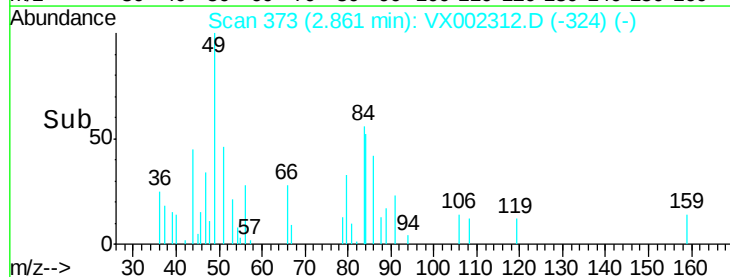
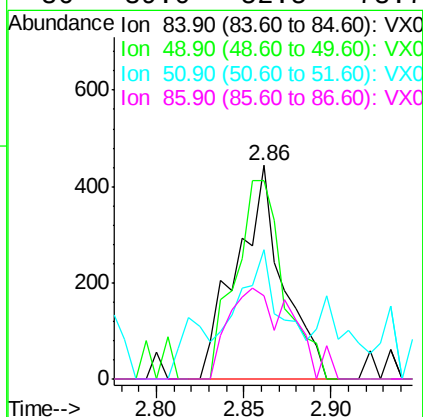
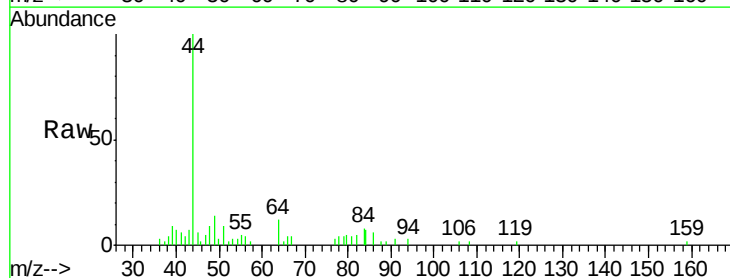
Instrument :
MSVOA_X
ClientSampled :

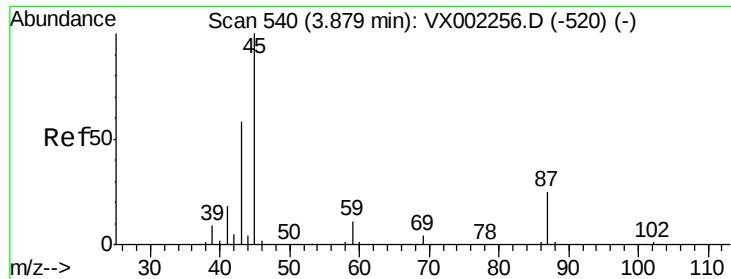
Tot Ion: 73 Resp: 104
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

Tgt Ion: 84 Resp: 815
Ion Ratio Lower Upper
84 100
49 92.8 107.8 161.6#
51 42.1 32.8 49.2
86 39.0 52.5 78.7#

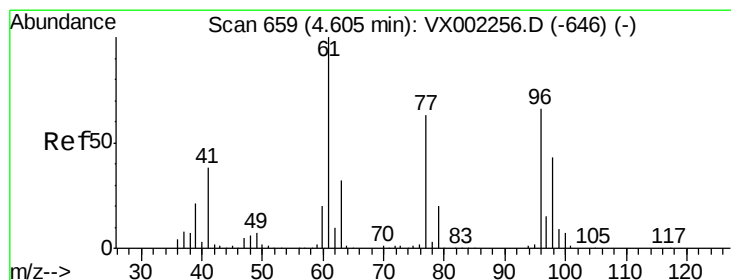
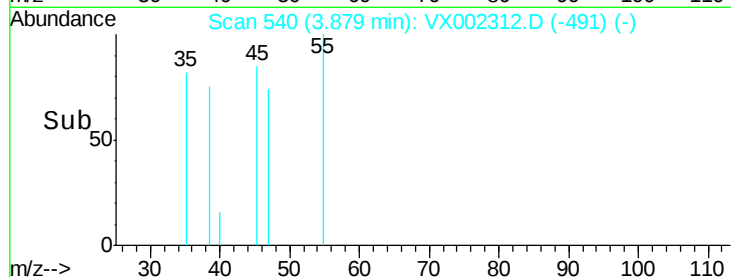
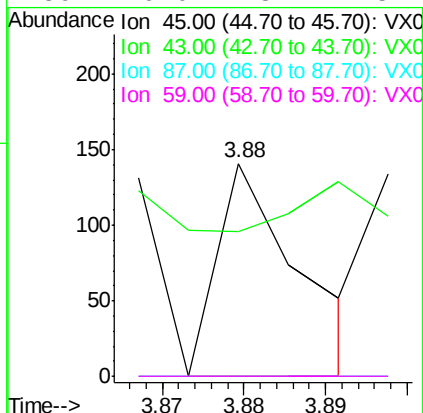
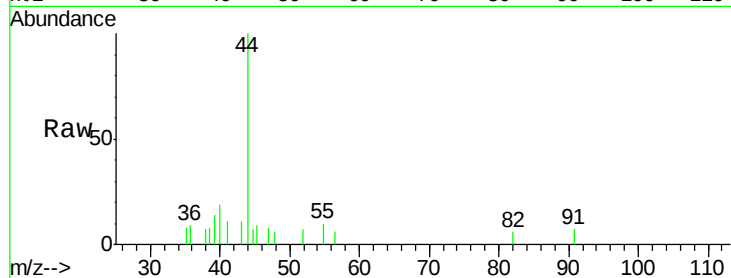




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

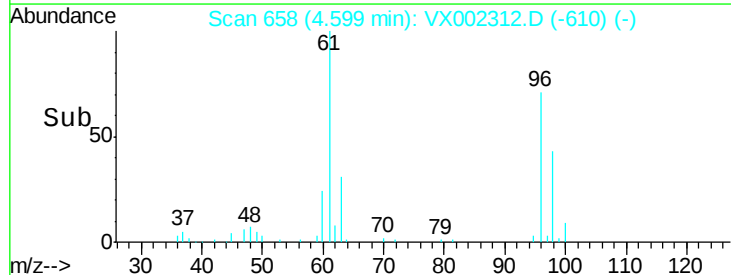
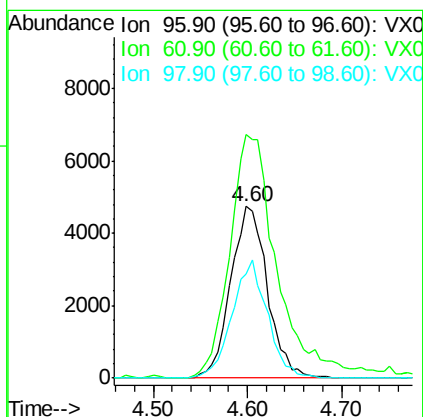
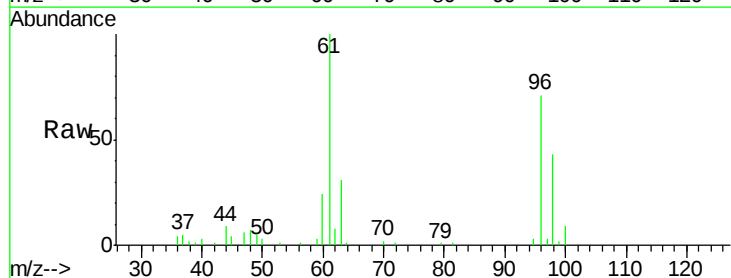
Instrument :
MSVOA_X
ClientSampled :

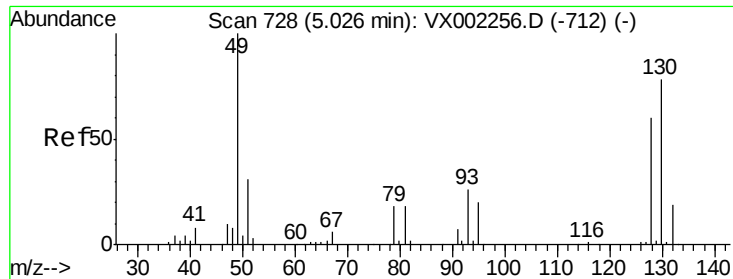
Tot Ion: 45 Resp: 98
Ion Ratio Lower Upper
45 100
43 0.0 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#



#27
cis-1,2-Dichloroethene
Concen: 4.33 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.01 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

Tgt Ion: 96 Resp: 12888
Ion Ratio Lower Upper
96 100
61 181.0 0.0 330.2
98 66.1 0.0 130.2

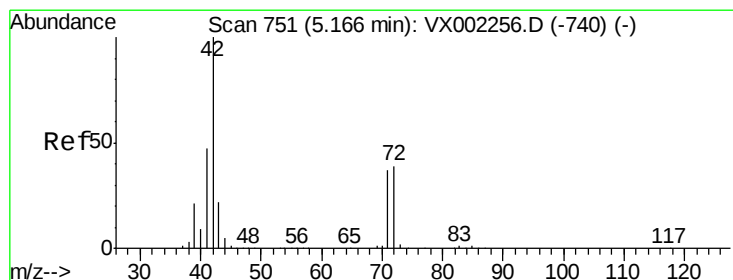
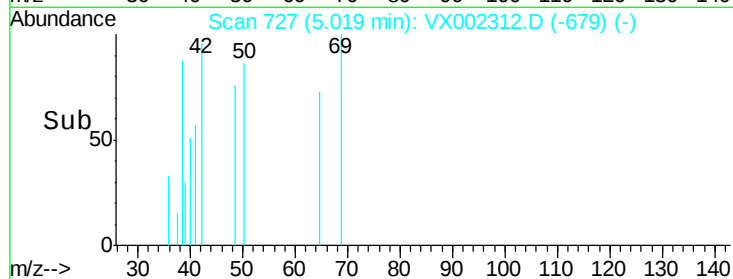
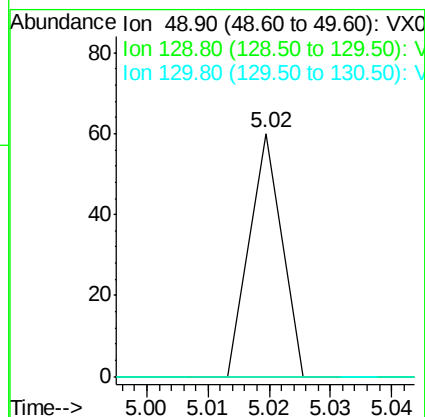
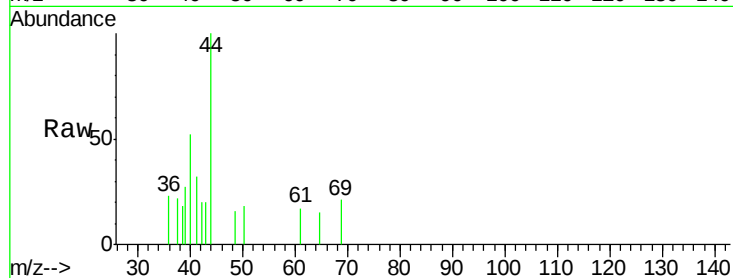




#28
Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 727
Delta R.T. -0.01 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

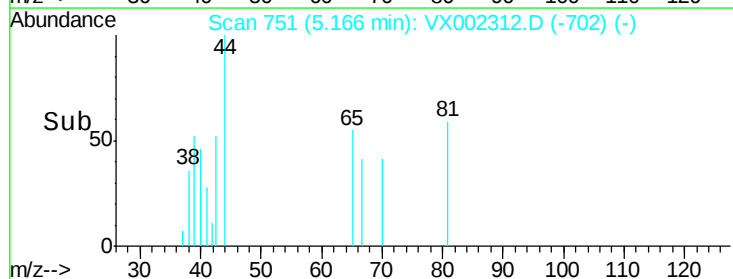
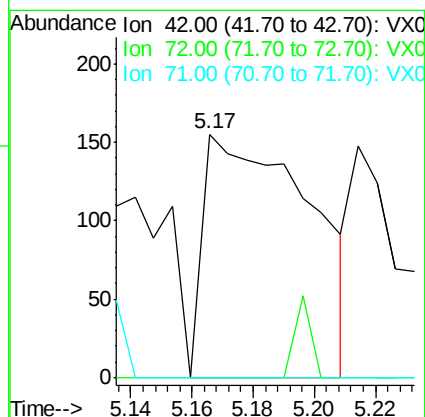
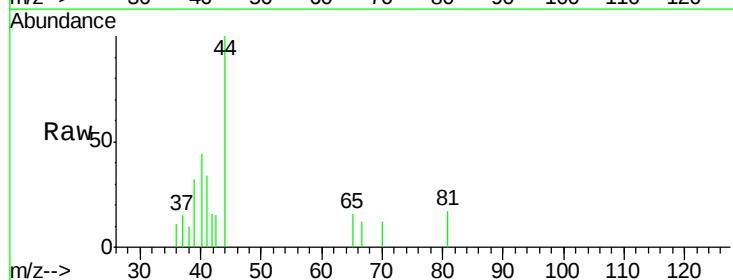
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 22
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29
Tetrahydrofuran
Concen: 0.25 ug/l
RT: 5.17 min Scan# 751
Delta R.T. -0.00 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

Tgt Ion: 42 Resp: 372
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 0.0 30.1 45.1#

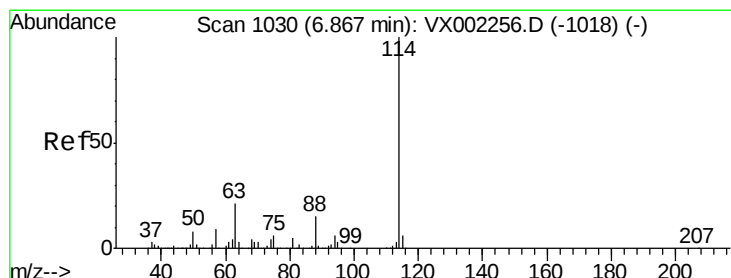
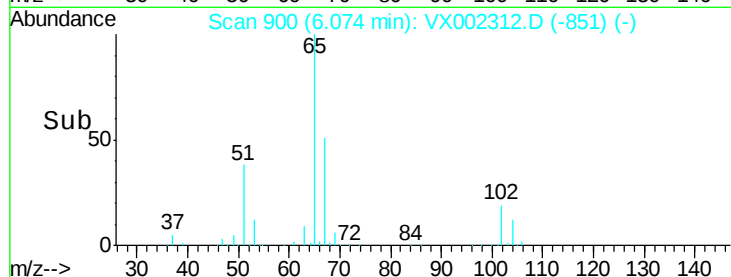
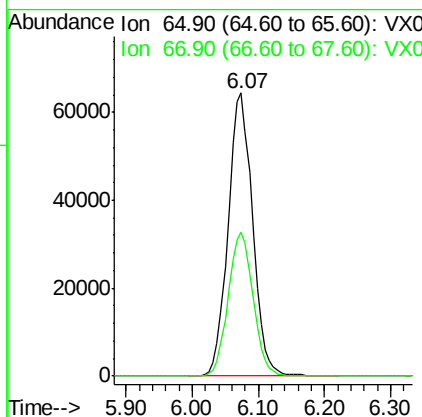
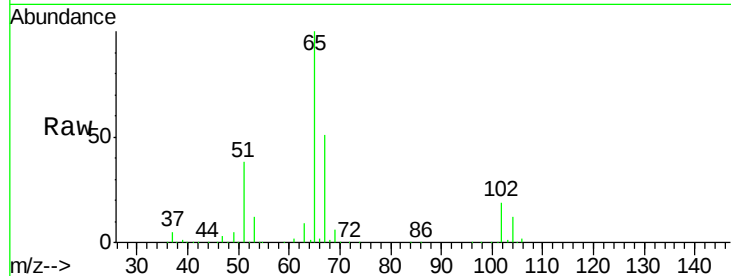




#33
 1,2-Dichloroethane-d4
 Concen: 49.62 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002312.D
 Acq: 05 Jun 2018 18:11

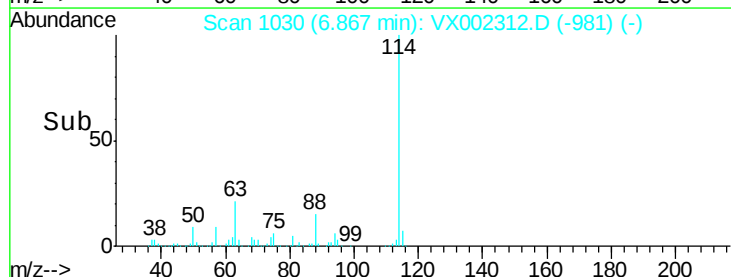
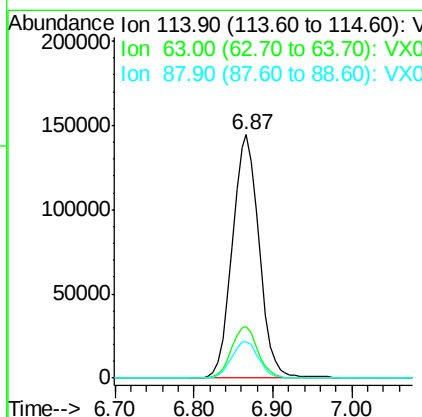
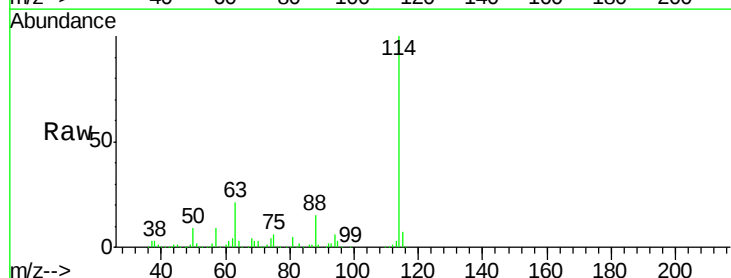
Instrument :
 MSVOA_X
 ClientSampleId :

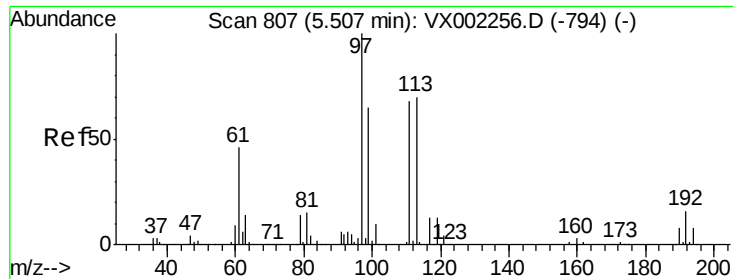
Tot Ion: 65 Resp: 165396
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002312.D
 Acq: 05 Jun 2018 18:11

Tgt Ion: 114 Resp: 340873
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 41.4
 88 14.7 0.0 30.0





#35

Dibromofluoromethane

Concen: 44.82 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

Instrument :

MSVOA_X

ClientSampled :

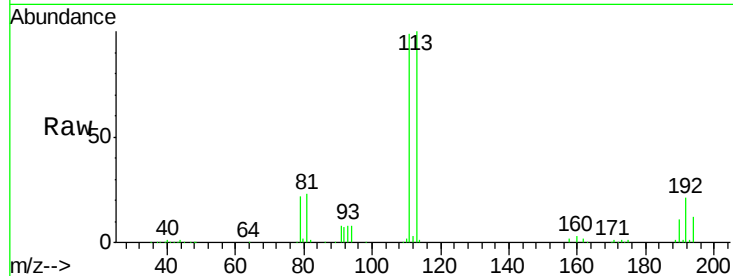
Tot Ion:113 Resp: 120159

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

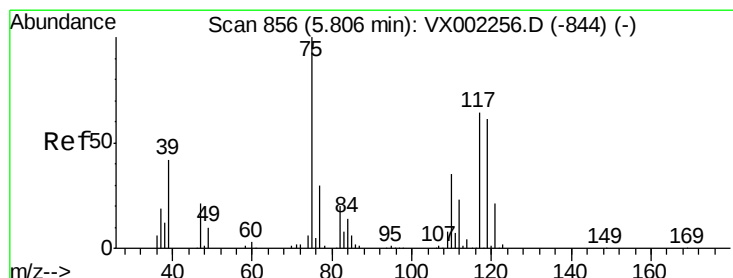
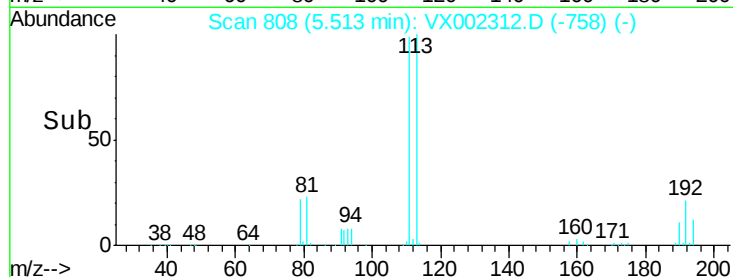
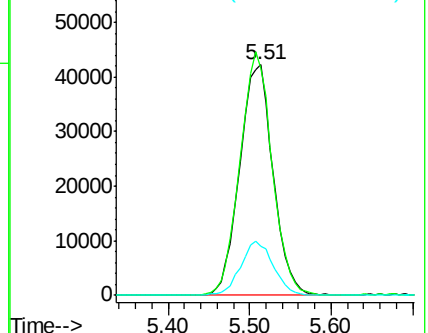
192 23.1 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.65 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

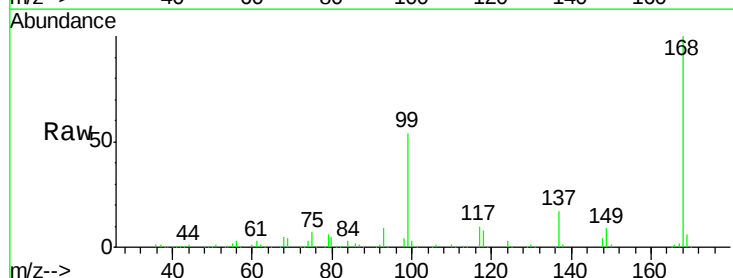
Tgt Ion: 75 Resp: 16658

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.4#

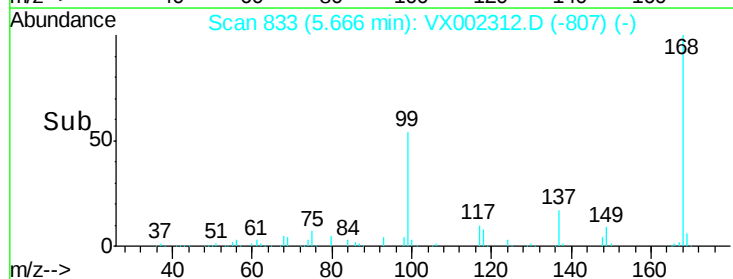
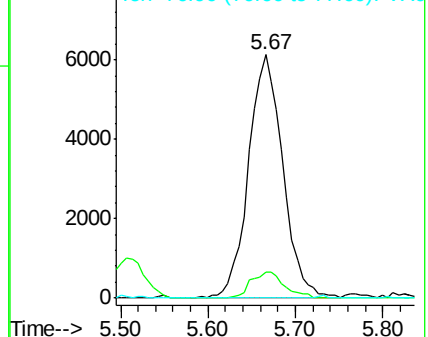
77 0.0 24.3 36.5#

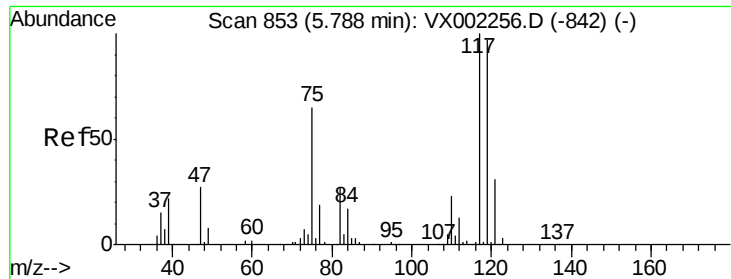


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.79 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

Instrument :

MSVOA_X

ClientSampled :

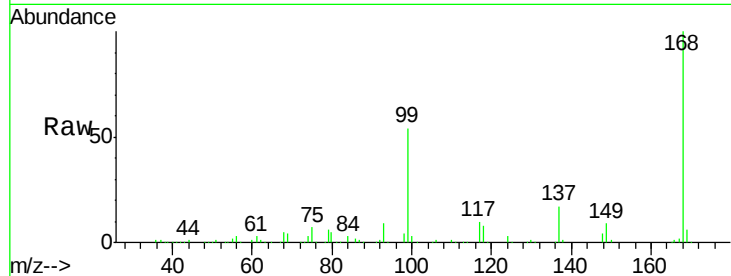
Tot Ion:117 Resp: 21720

Ion Ratio Lower Upper

117 100

119 4.2 77.4 116.0#

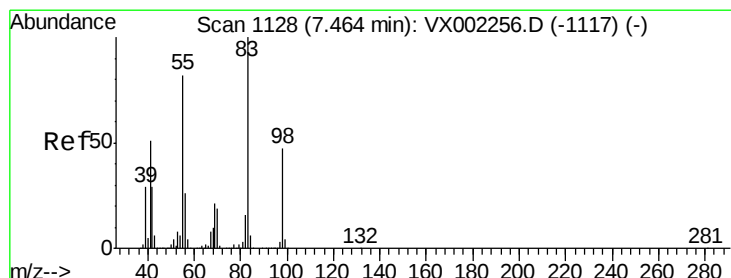
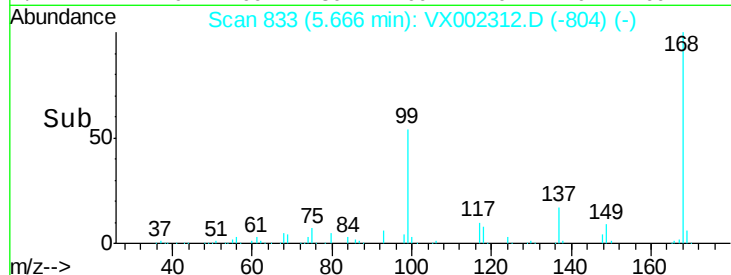
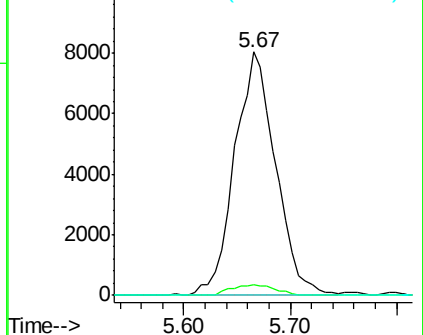
121 0.0 24.4 36.6#



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: 0.29 ug/l

RT: 7.45 min Scan# 1126

Delta R.T. -0.01 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

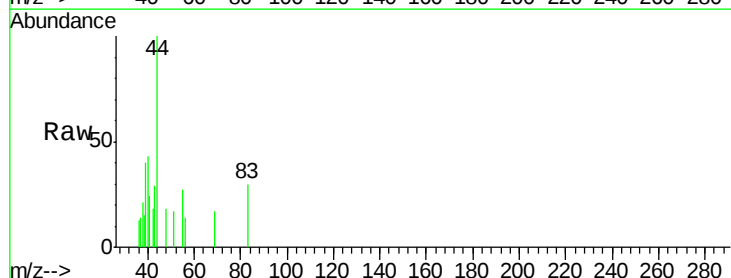
Tgt Ion: 83 Resp: 137

Ion Ratio Lower Upper

83 100

55 88.2 65.4 98.0

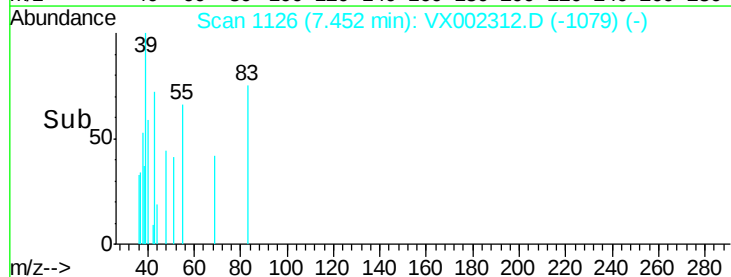
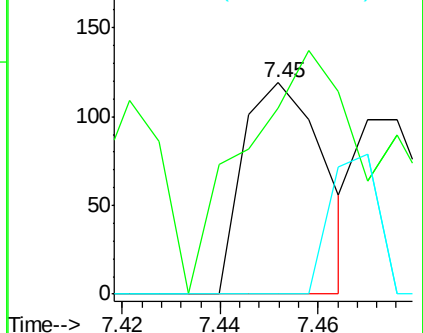
98 0.0 37.4 56.0#

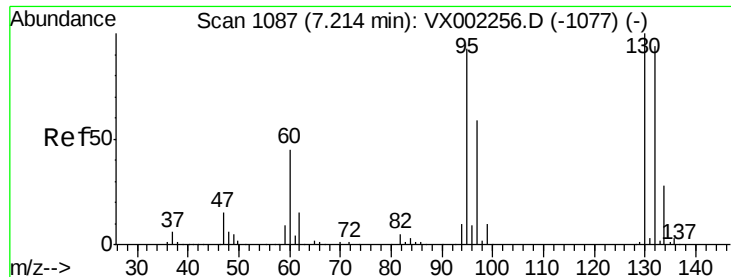


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

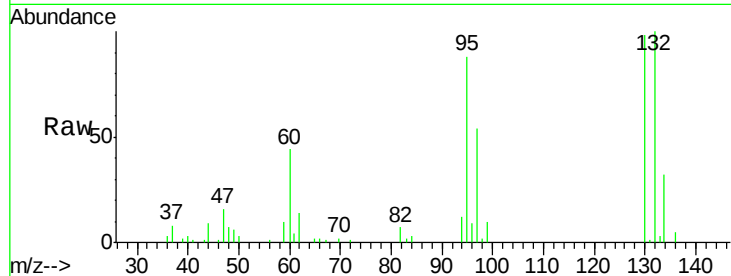




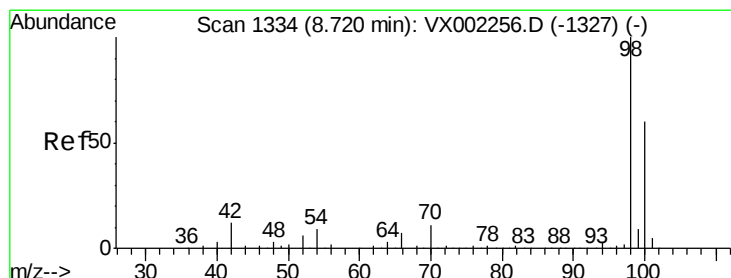
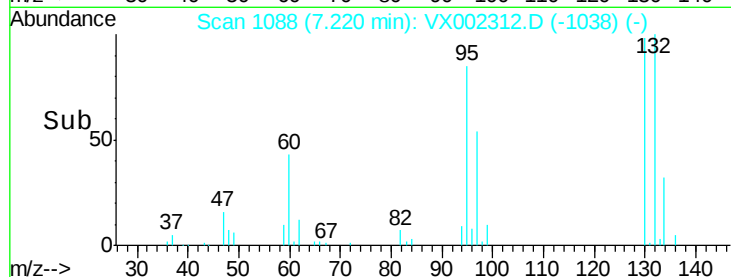
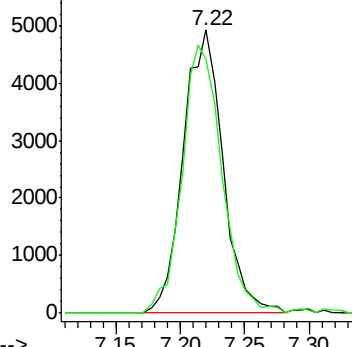
#44
 Trichloroethene
 Concen: 3.44 ug/l
 RT: 7.22 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: VX002312.D
 Acq: 05 Jun 2018 18:11

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:130 Resp: 10484
 Ion Ratio Lower Upper
 130 100
 95 89.9 0.0 185.4

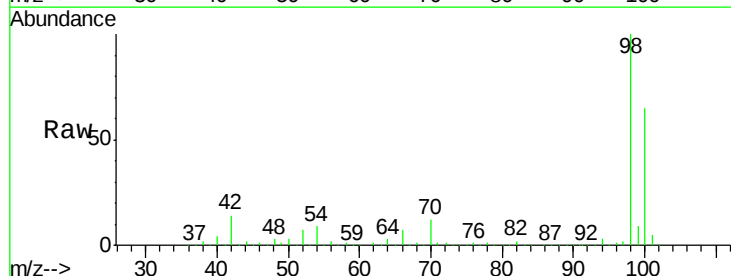


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

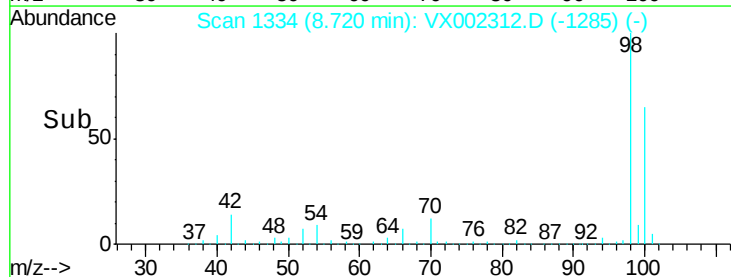
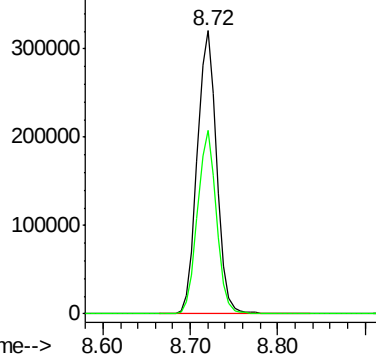


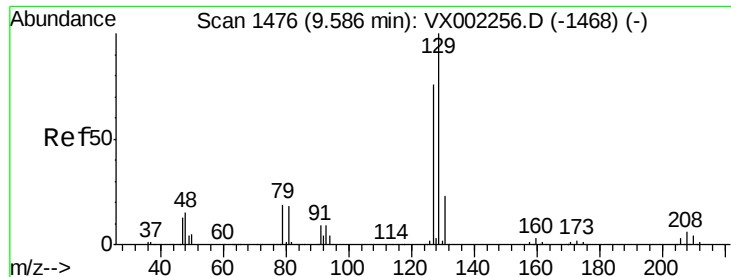
#50
 Toluene-d8
 Concen: 48.11 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VX002312.D
 Acq: 05 Jun 2018 18:11

Tgt Ion: 98 Resp: 494299
 Ion Ratio Lower Upper
 98 100
 100 63.4 50.9 76.3



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





#60

Dibromochloromethane

Concen: 1.30 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

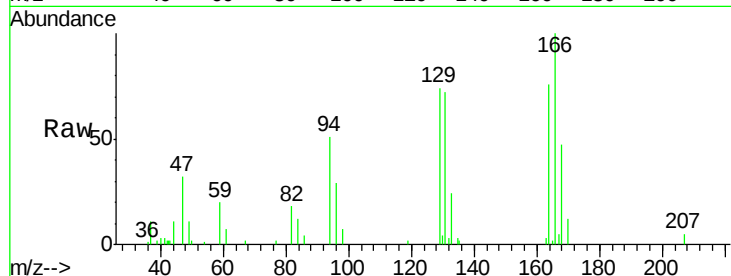
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 3751

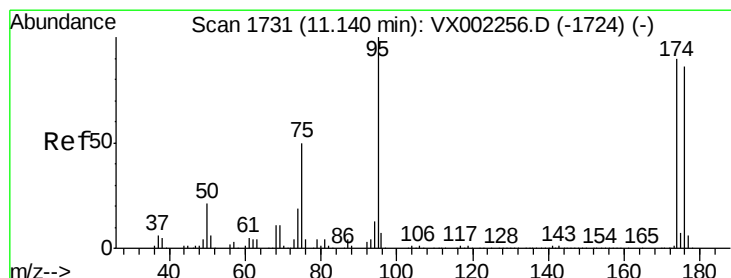
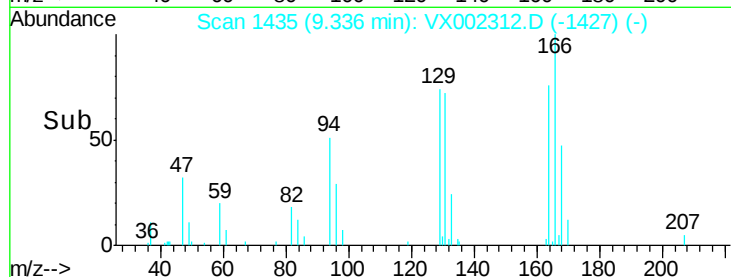
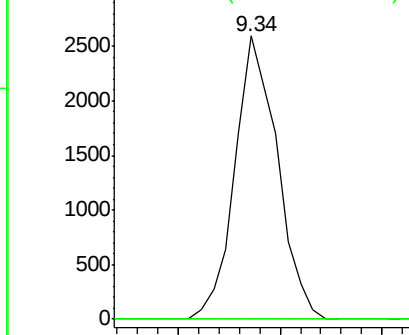
Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

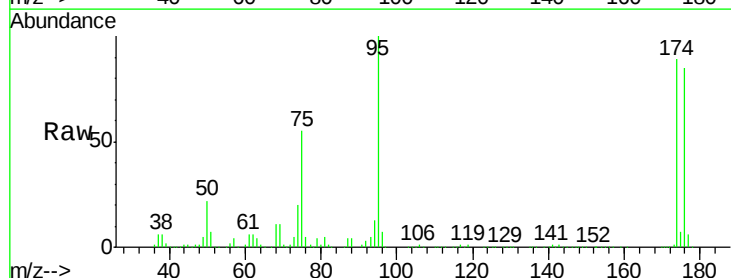
Tgt Ion: 95 Resp: 174879

Ion Ratio Lower Upper

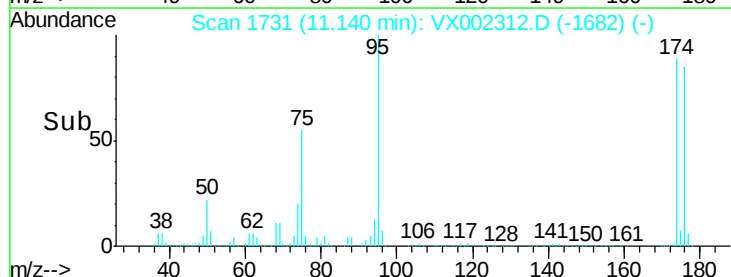
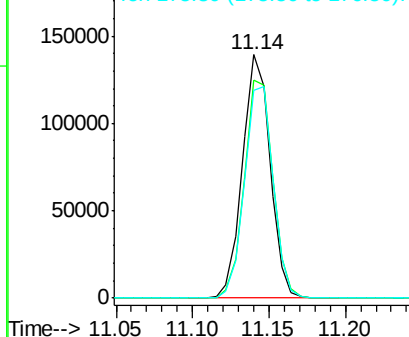
95 100

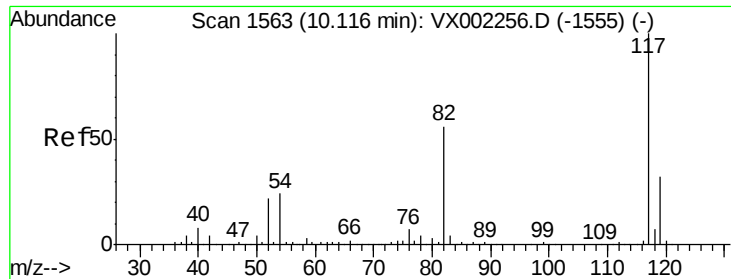
174 92.8 0.0 187.4

176 90.6 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

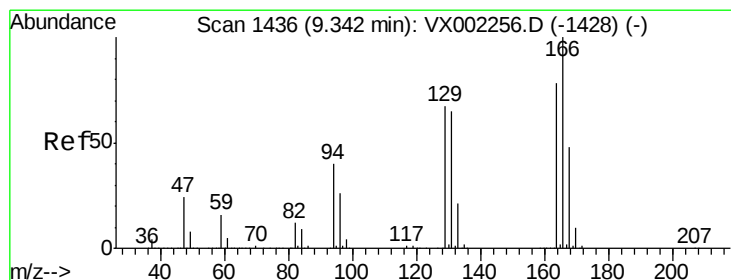
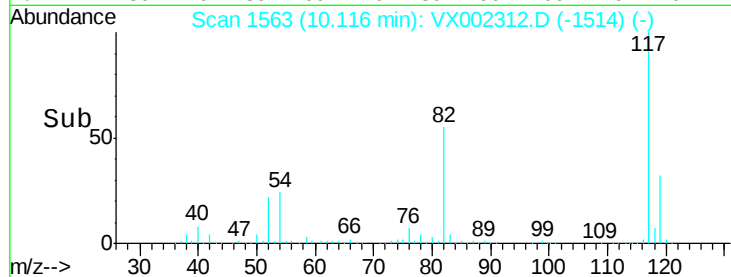
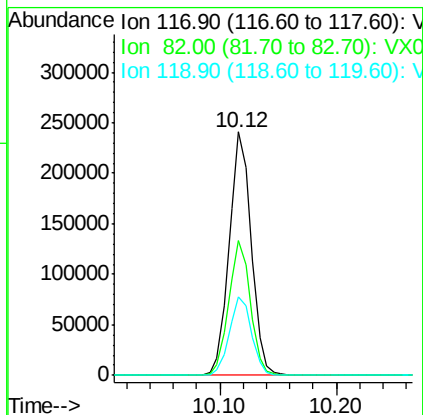
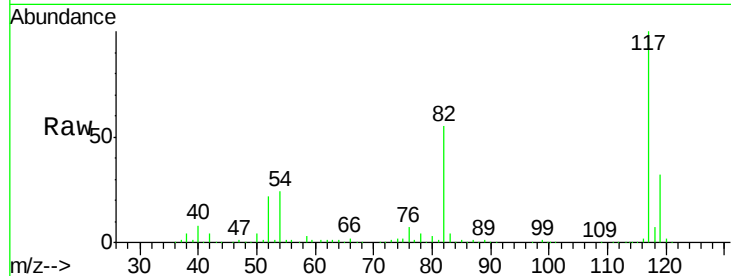




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

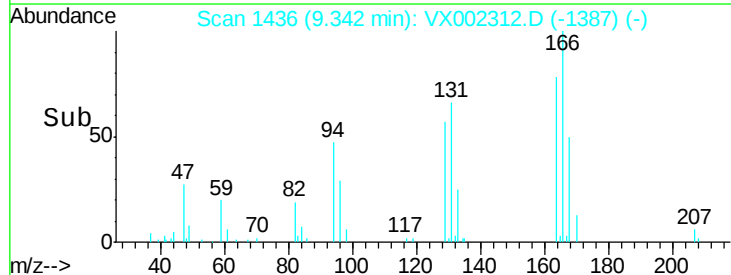
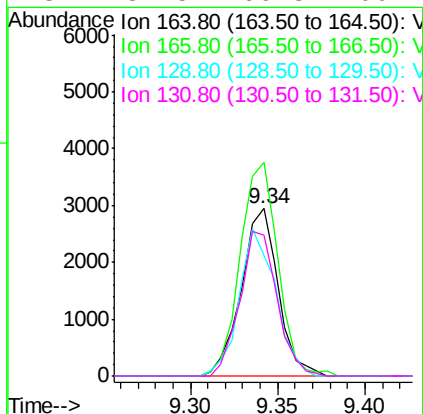
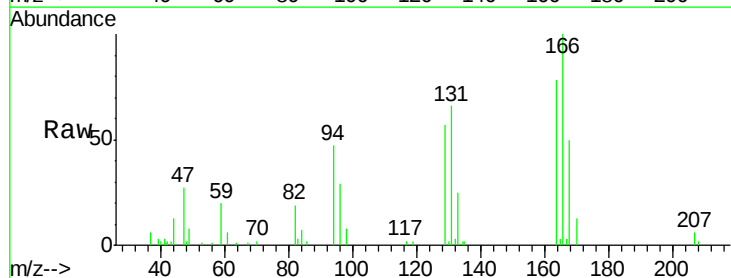
Instrument :
MSVOA_X
ClientSampleId :

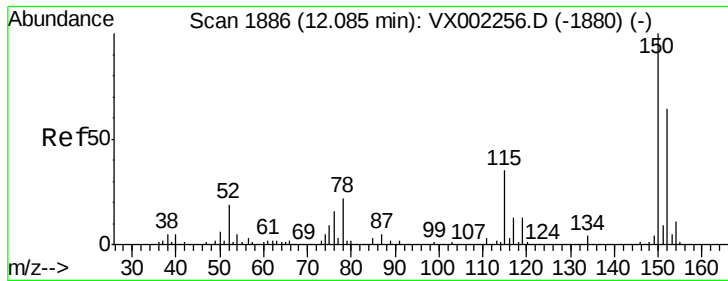
Tot Ion:117 Resp: 317717
Ion Ratio Lower Upper
117 100
82 55.2 45.0 67.4
119 32.5 25.8 38.6



#64
Tetrachloroethene
Concen: 1.32 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX002312.D
Acq: 05 Jun 2018 18:11

Tgt Ion:164 Resp: 4327
Ion Ratio Lower Upper
164 100
166 127.7 102.9 154.3
129 72.3 68.6 102.8
131 84.5 66.8 100.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

Instrument :

MSVOA_X

ClientSampled :

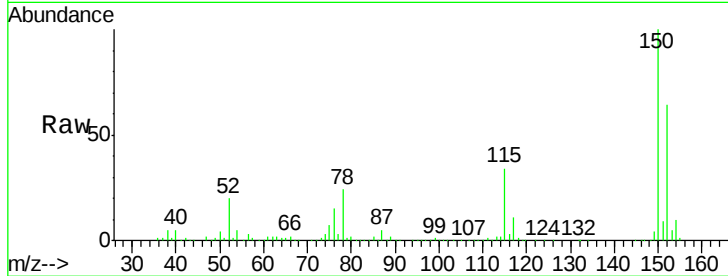
Tot Ion:152 Resp: 177761

Ion Ratio Lower Upper

152 100

115 55.8 40.1 120.2

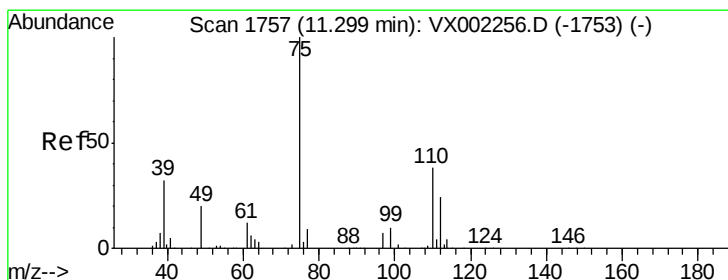
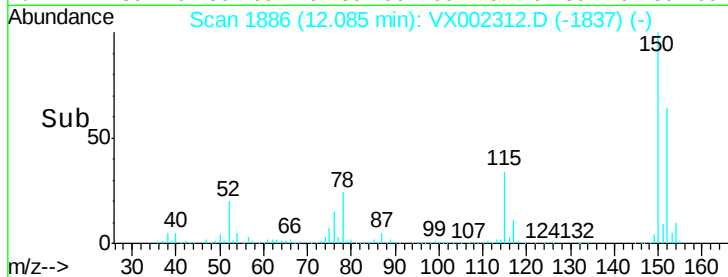
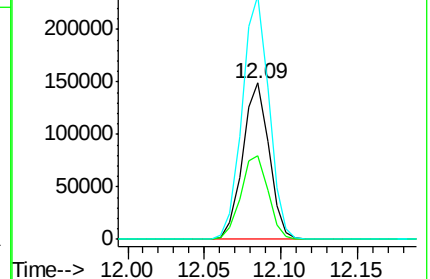
150 158.3 0.0 347.2



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: 24.21 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002312.D

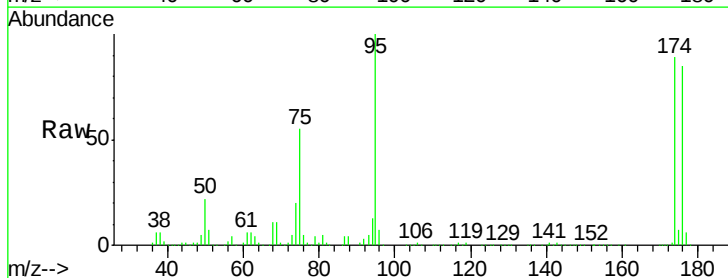
Acq: 05 Jun 2018 18:11

Tgt Ion: 75 Resp: 94445

Ion Ratio Lower Upper

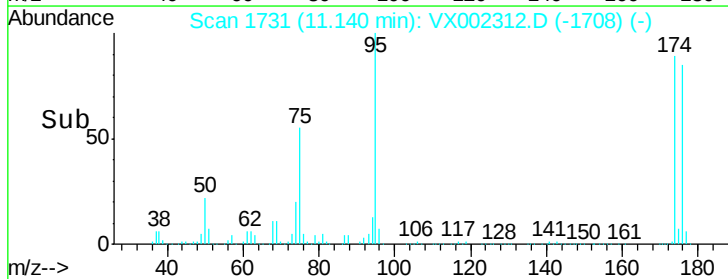
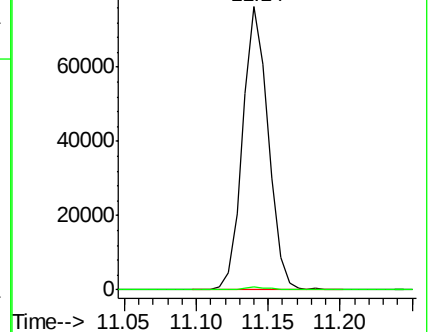
75 100

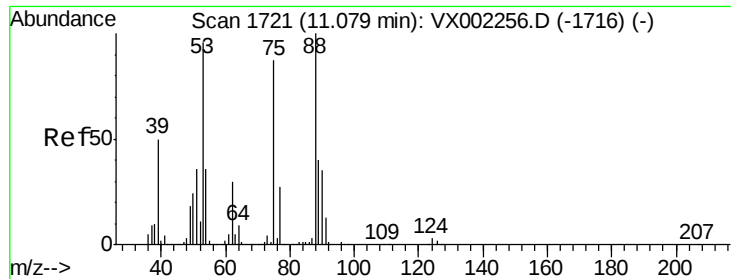
77 1.1 22.8 68.3#



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: 84.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002312.D

Acq: 05 Jun 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 94445

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

