

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002317.D
 Acq On : 05 Jun 2018 20:24
 Operator : JC/MD
 Sample : J3268-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:34:41 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	221333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	328549	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	304310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	162727	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	158408	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
35) Dibromofluoromethane	5.51	113	117213	45.37	ug/l	0.00
Spiked Amount			Recovery	=	90.74%	
50) Toluene-d8	8.72	98	477440	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
62) 4-Bromofluorobenzene	11.14	95	160192	41.95	ug/l	0.00
Spiked Amount			Recovery	=	83.90%	

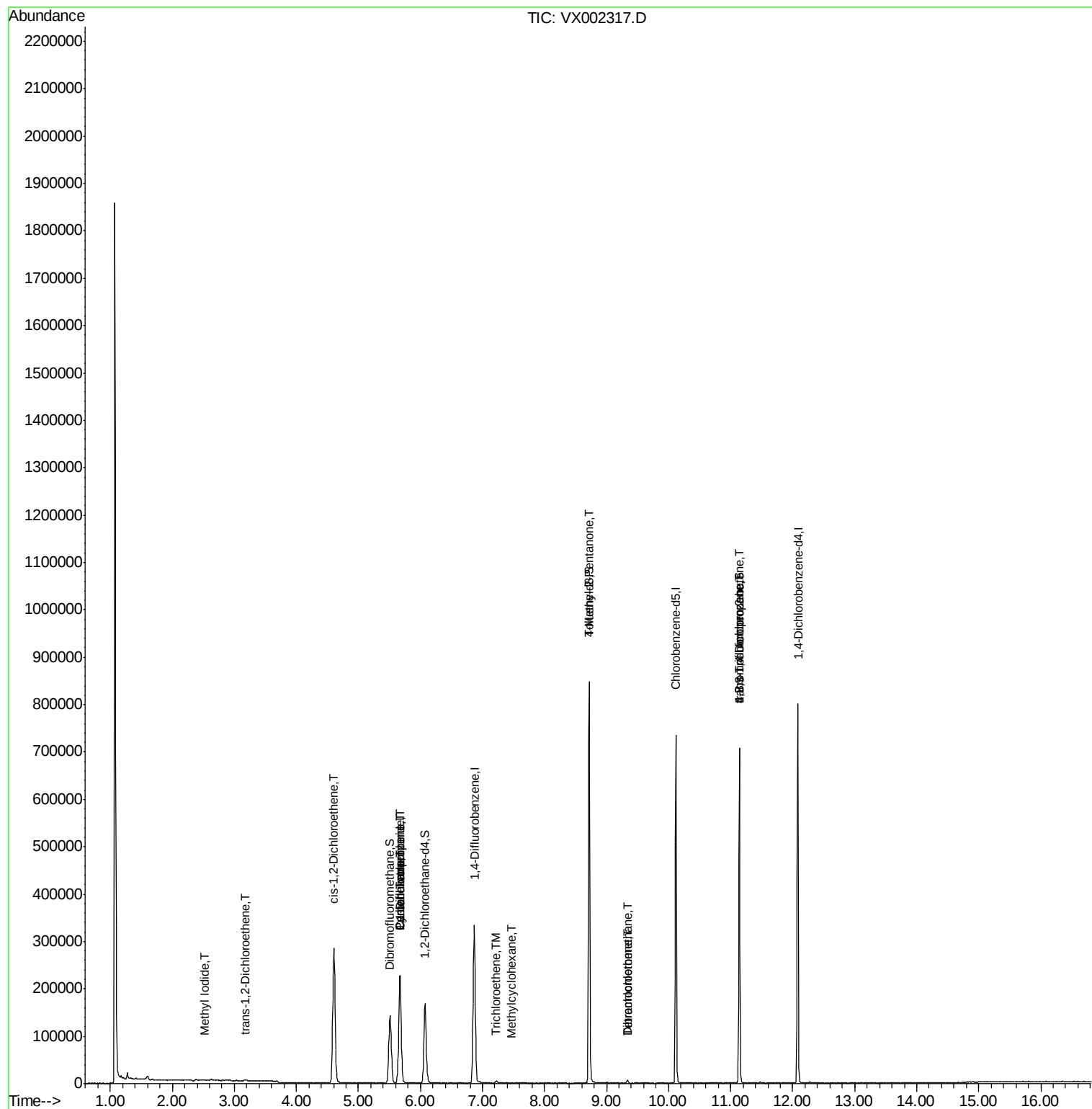
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	460	Below Cal	#	70
5) Bromomethane	1.66	94	1191	Below Cal	#	67
8) Diethyl Ether	2.19	74	236	Below Cal		94
10) Methyl Iodide	2.52	142	711	0.21	ug/l	# 97
11) Tert butyl alcohol	3.07	59	100	Below Cal	#	1
13) Acrolein	2.31	56	173	Below Cal	#	14
15) Acrylonitrile	3.17	53	90	Below Cal	#	4
16) Acetone	2.45	43	1089	Below Cal	#	54
18) Methyl Acetate	2.79	43	158	Below Cal	#	89
19) Methyl tert-butyl Ether	3.20	73	421	Below Cal	#	64
20) Methylene Chloride	2.86	84	338	Below Cal	#	33
21) trans-1,2-Dichloroethene	3.17	96	1303	0.50	ug/l	# 65
22) Diisopropyl ether	3.85	45	23	Below Cal	#	36
27) cis-1,2-Dichloroethene	4.60	96	172582	61.07	ug/l	85
28) Bromochloromethane	4.98	49	22	Below Cal	#	13
31) Cyclohexane	5.67	56	4921	1.23	ug/l	# 7
36) 1,1-Dichloropropene	5.67	75	15780	4.57	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	20757	5.74	ug/l	# 16
39) Methylcyclohexane	7.47	83	53	0.27	ug/l	# 64
44) Trichloroethene	7.22	130	1901	0.65	ug/l	86
51) 4-Methyl-2-Pentanone	8.71	43	2558	0.58	ug/l	# 1
60) Dibromochloromethane	9.34	129	1131	0.41	ug/l	# 11
64) Tetrachloroethene	9.34	164	1261	0.40	ug/l	90
76) 1,2,3-Trichloropropane	11.14	75	86747	24.29	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	86747	85.16	ug/l	# 7

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

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Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002317.D

Acq: 05 Jun 2018 20:24

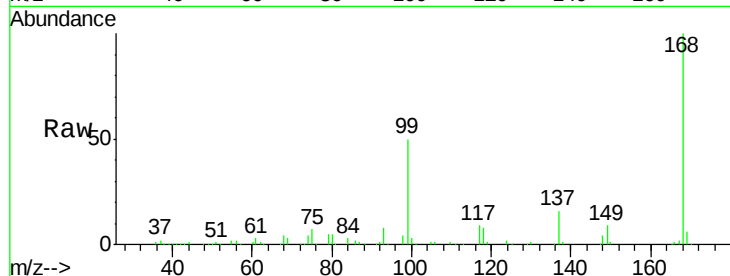
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 221333

Ion Ratio Lower Upper

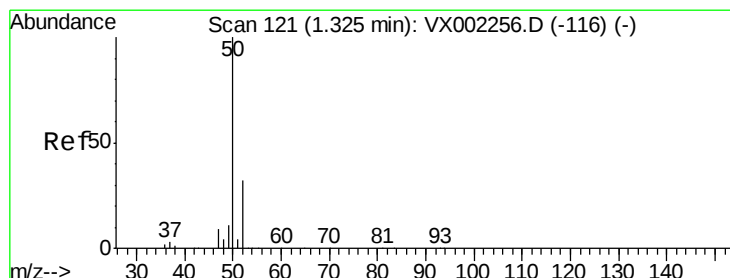
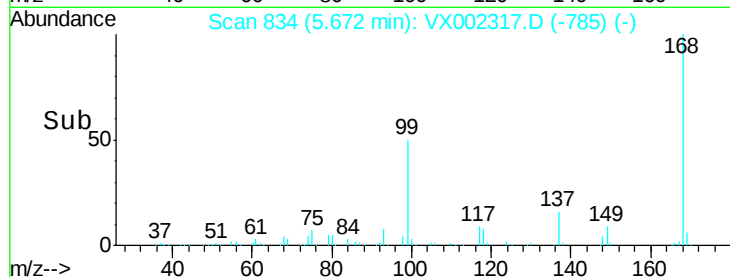
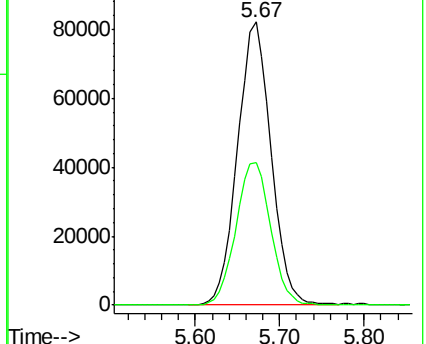
168 100

99 50.3 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: VX002317.D

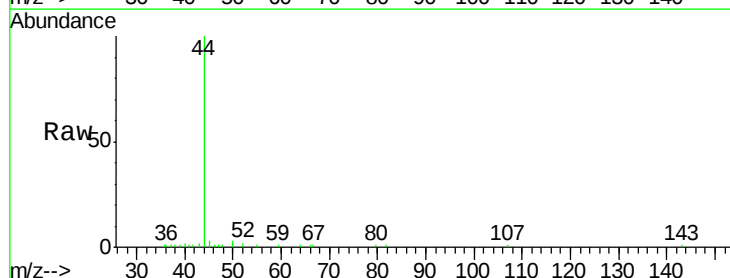
Acq: 05 Jun 2018 20:24

Tgt Ion: 50 Resp: 460

Ion Ratio Lower Upper

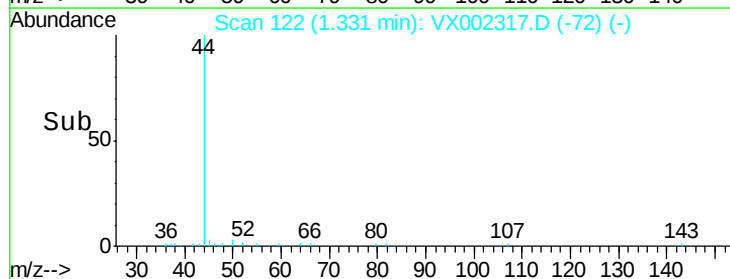
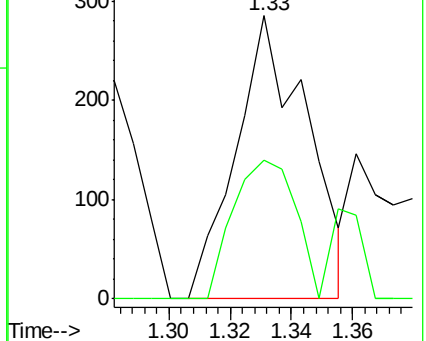
50 100

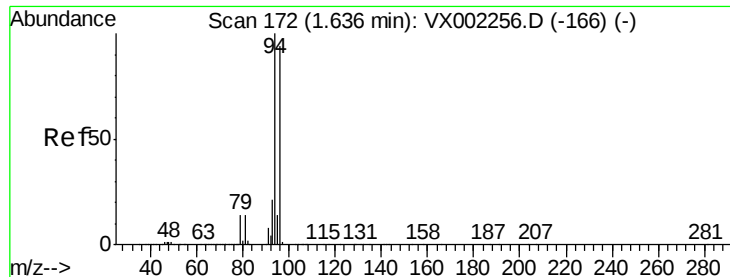
52 48.8 25.7 38.5#



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: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002317.D

Acq: 05 Jun 2018 20:24

Instrument :

MSVOA_X

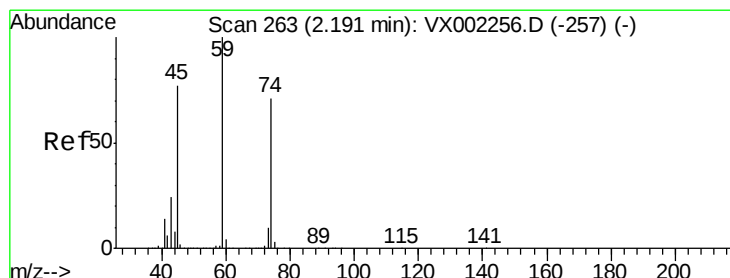
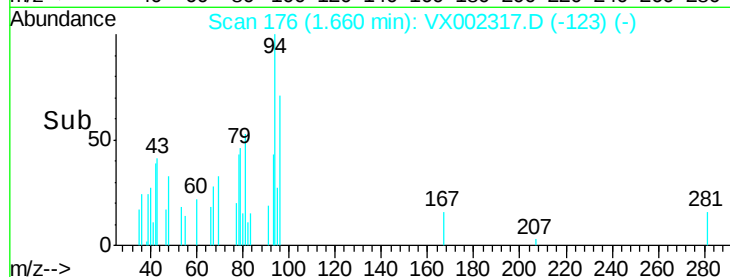
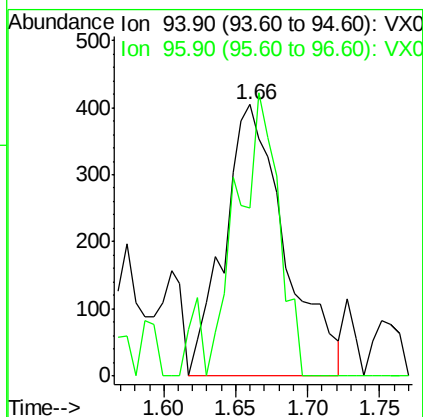
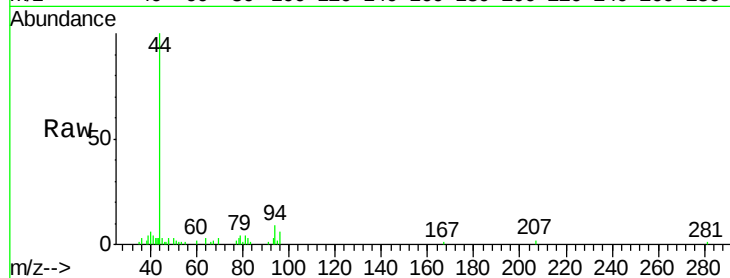
ClientSampleId :

Tot Ion: 94 Resp: 1191

Ion Ratio Lower Upper

94 100

96 61.9 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002317.D

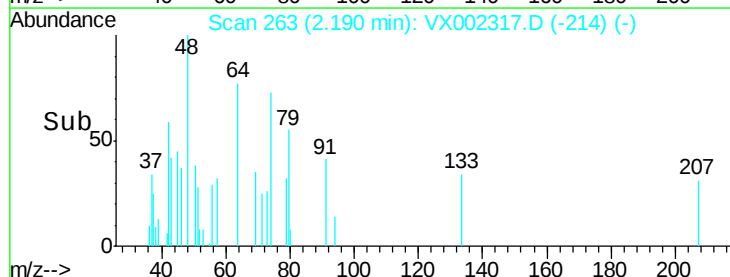
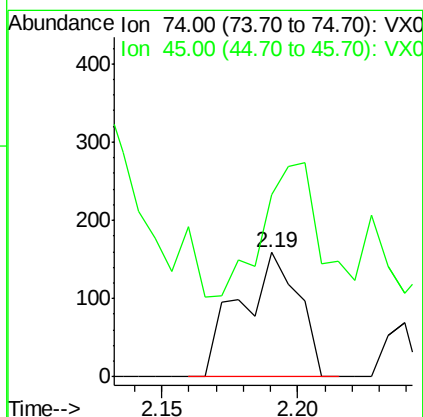
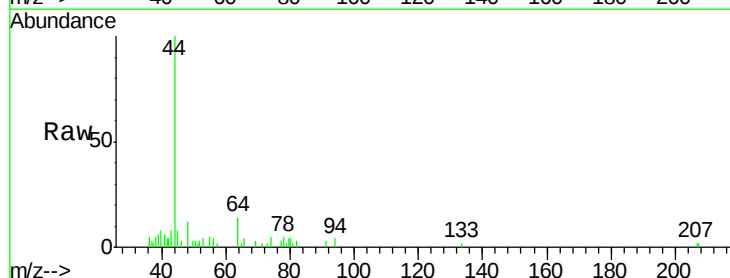
Acq: 05 Jun 2018 20:24

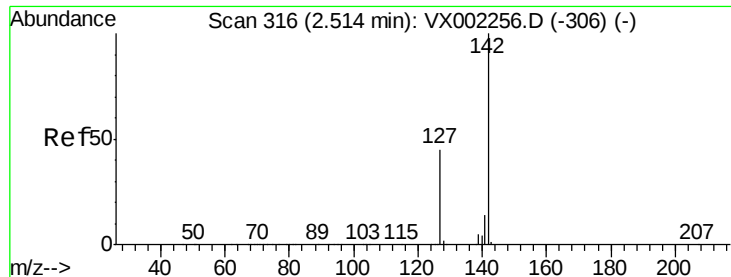
Tgt Ion: 74 Resp: 236

Ion Ratio Lower Upper

74 100

45 100.4 53.1 159.4

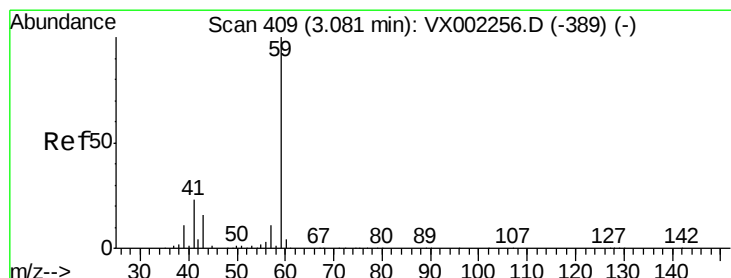
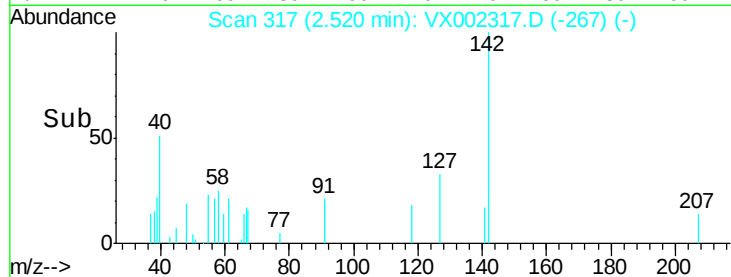
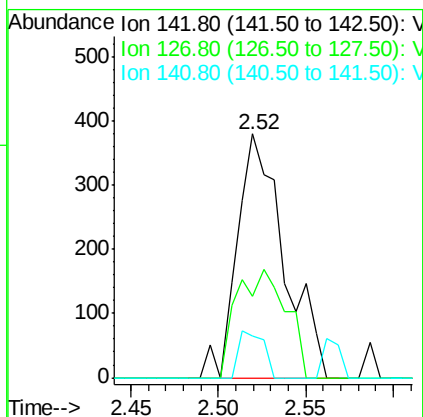
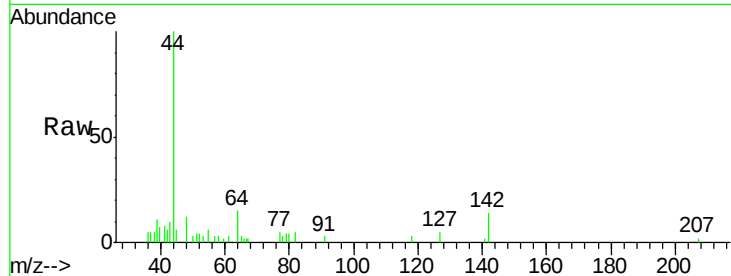




#10
Methyl Iodide
Concen: 0.21 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

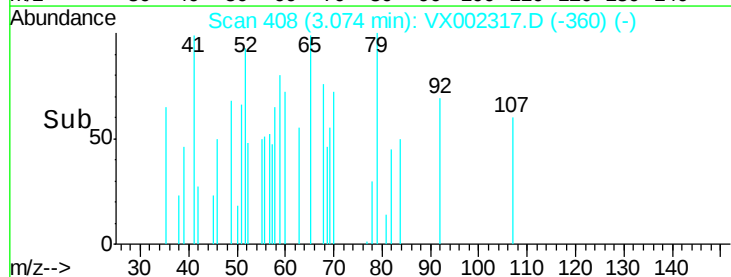
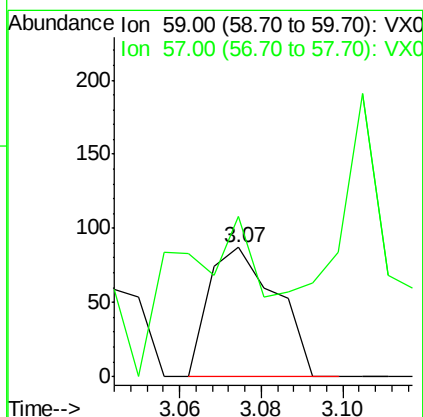
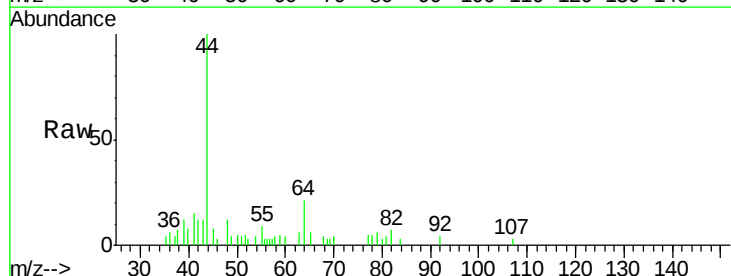
Instrument :
MSVOA_X
ClientSampleId :

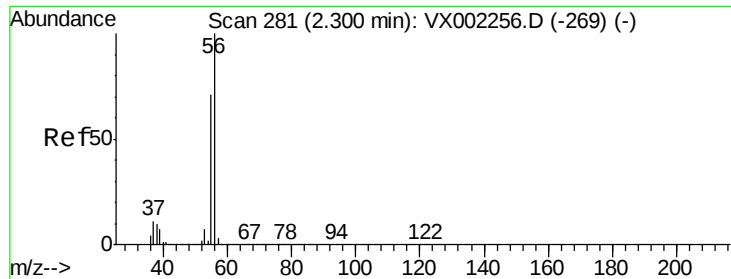
Tot Ion:142 Resp: 711
Ion Ratio Lower Upper
142 100
127 46.6 36.6 55.0
141 10.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Tgt Ion: 59 Resp: 100
Ion Ratio Lower Upper
59 100
57 108.0 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002317.D

Acq: 05 Jun 2018 20:24

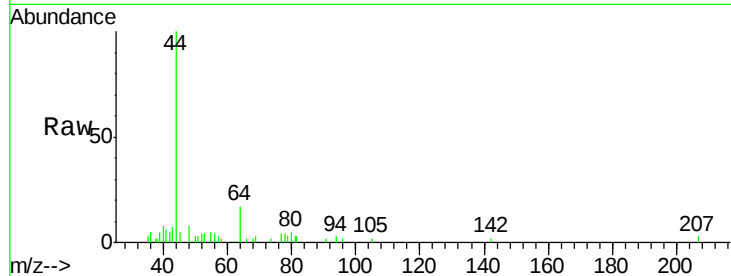
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 173

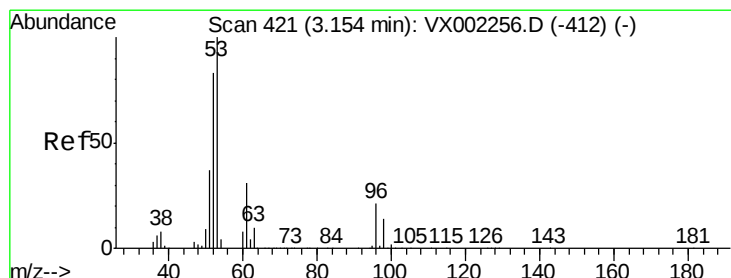
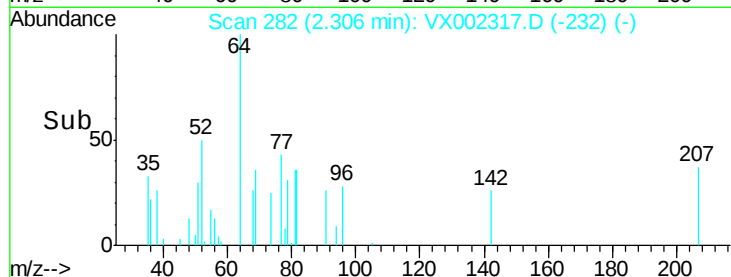
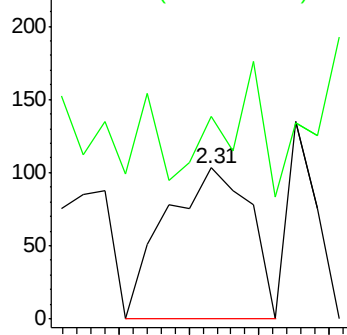
Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: Below Cal

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX002317.D

Acq: 05 Jun 2018 20:24

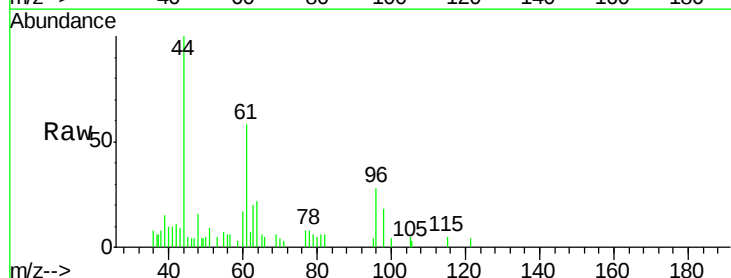
Tgt Ion: 53 Resp: 90

Ion Ratio Lower Upper

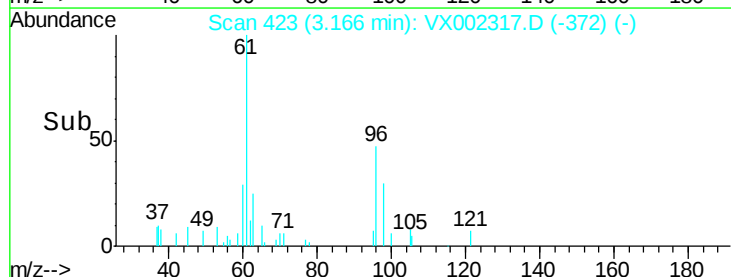
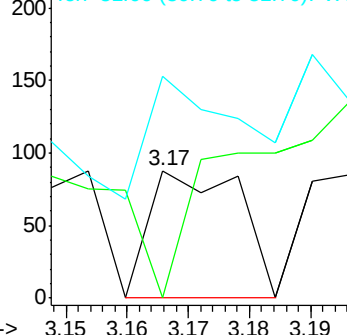
53 100

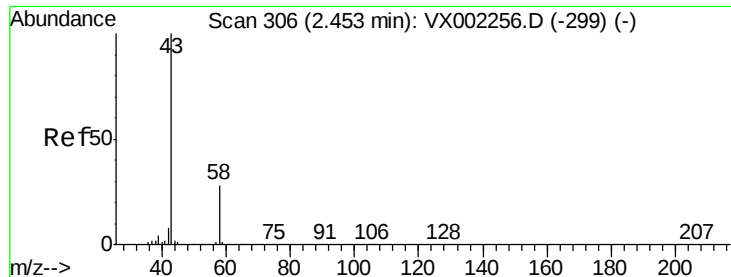
52 0.0 66.7 100.1#

51 98.9 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002317.D

Acq: 05 Jun 2018 20:24

Instrument :

MSVOA_X

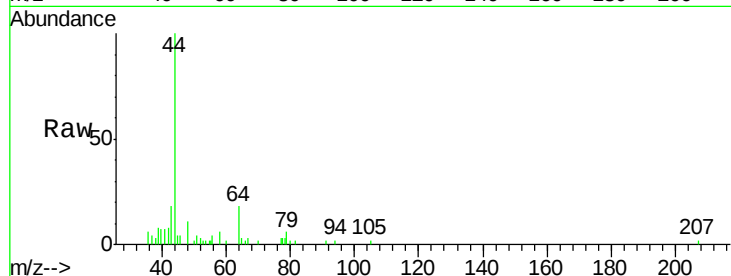
ClientSampled :

Tot Ion: 43 Resp: 1089

Ion Ratio Lower Upper

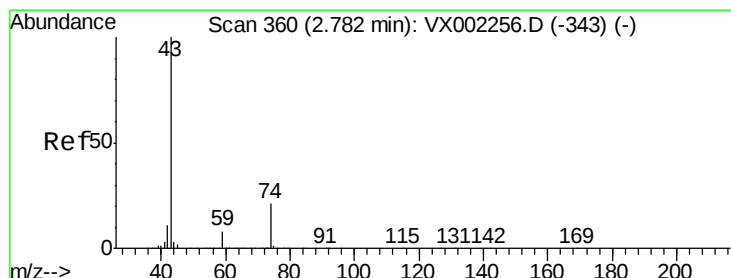
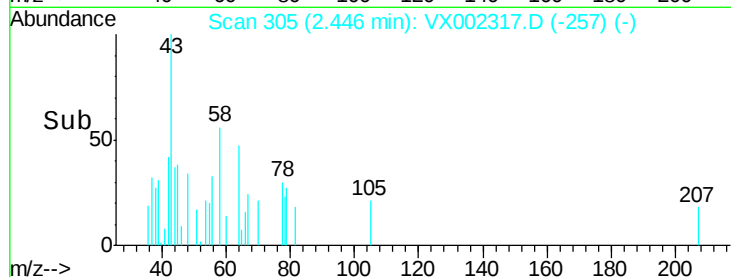
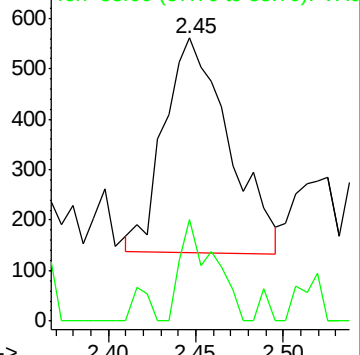
43 100

58 51.4 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: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002317.D

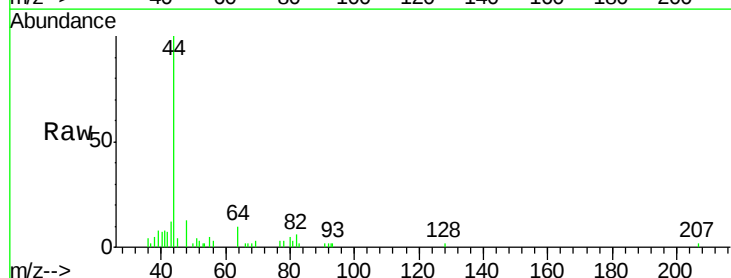
Acq: 05 Jun 2018 20:24

Tgt Ion: 43 Resp: 158

Ion Ratio Lower Upper

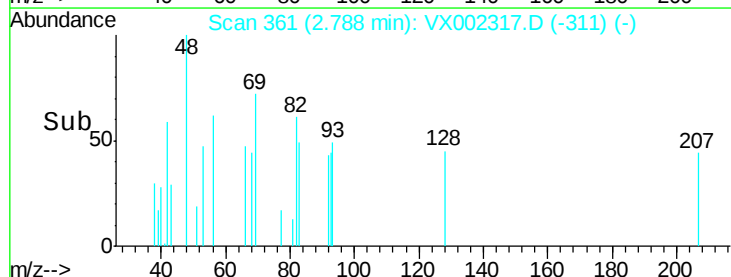
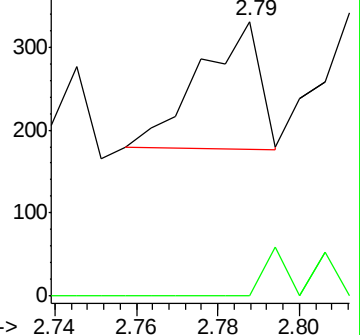
43 100

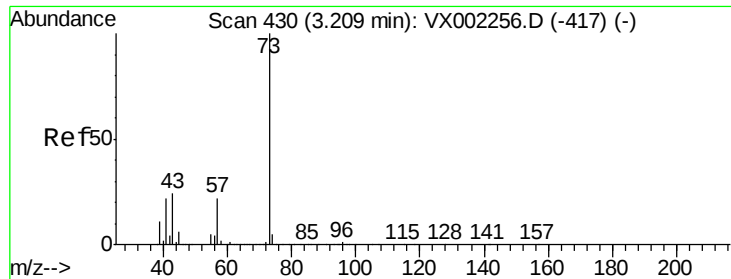
74 25.9 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



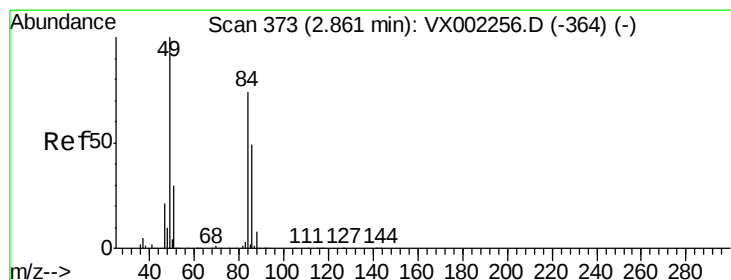
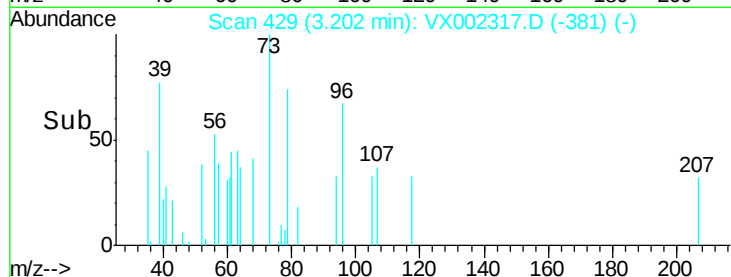
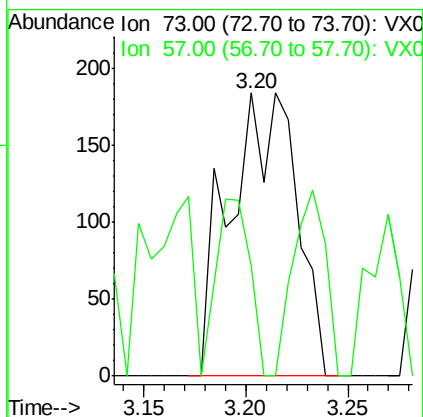
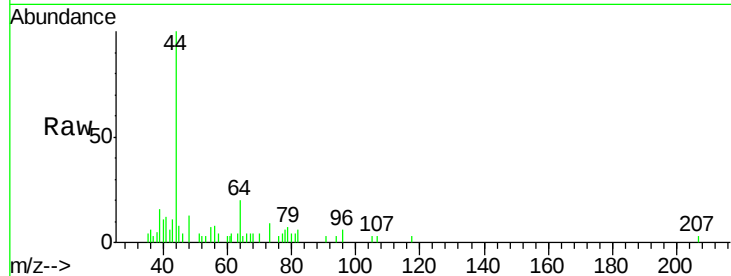


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Instrument :
MSVOA_X
ClientSampleId :

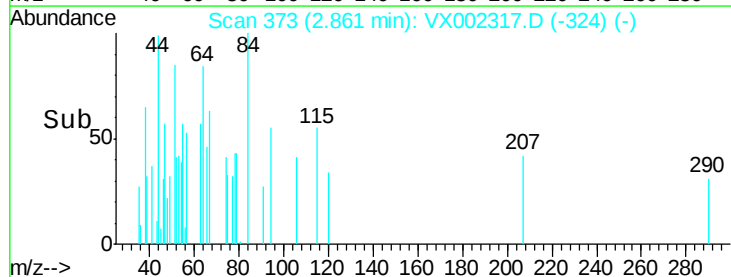
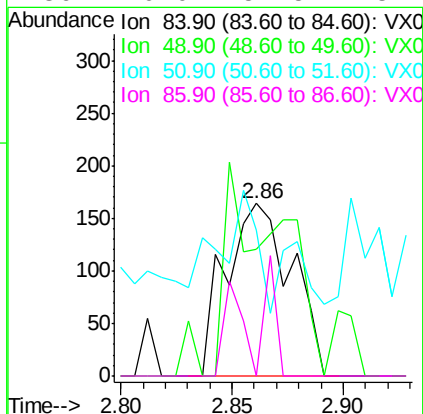
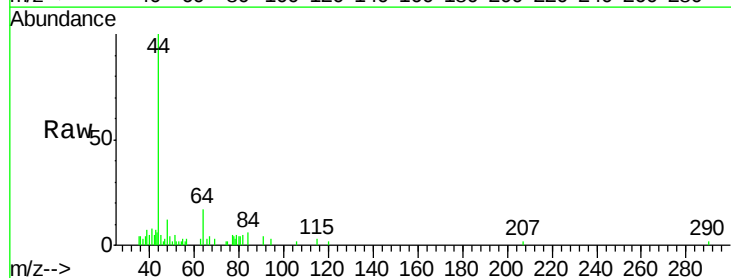
Tot Ion: 73 Resp: 421
Ion Ratio Lower Upper
73 100
57 39.1 17.7 26.5#

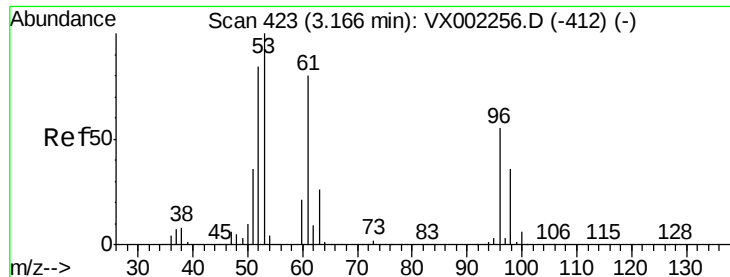


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Tgt Ion: 84 Resp: 338
Ion Ratio Lower Upper
84 100
49 41.5 107.8 161.6#
51 38.4 32.8 49.2
86 0.0 52.5 78.7#





#21

trans-1,2-Dichloroethene

Concen: 0.50 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX002317.D

Acq: 05 Jun 2018 20:24

Instrument :

MSVOA_X

ClientSampleId :

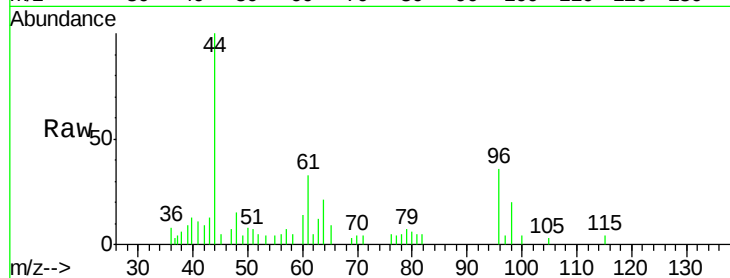
Tot Ion: 96 Resp: 1303

Ion Ratio Lower Upper

96 100

61 90.0 117.0 175.4#

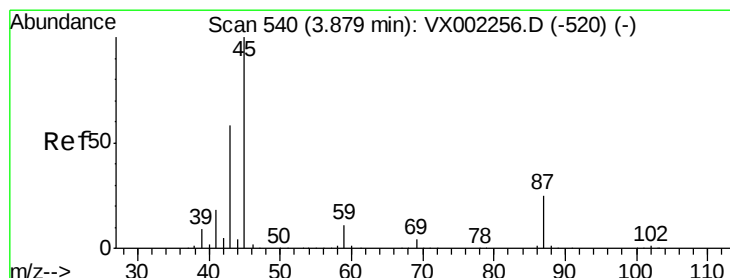
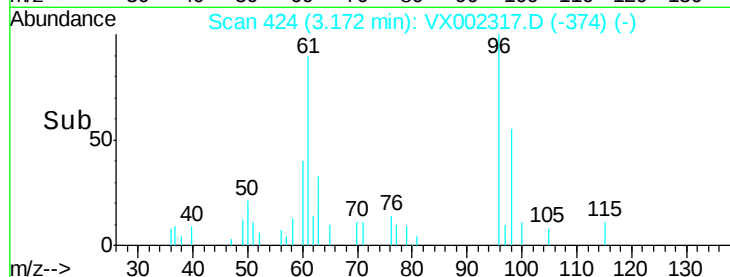
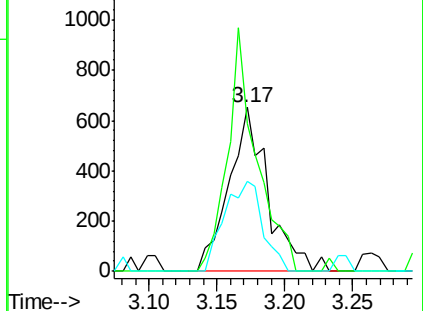
98 54.8 52.4 78.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: Below Cal

RT: 3.85 min Scan# 535

Delta R.T. -0.03 min

Lab File: VX002317.D

Acq: 05 Jun 2018 20:24

Tgt Ion: 45 Resp: 23

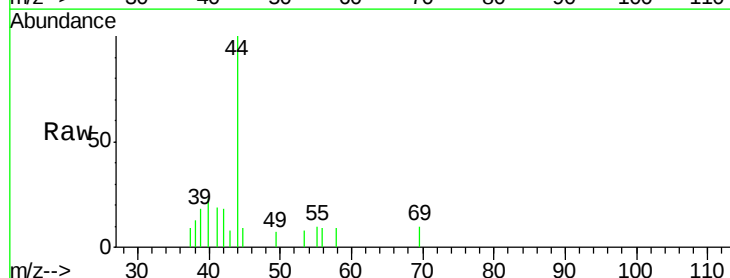
Ion Ratio Lower Upper

45 100

43 1.6 46.8 70.2#

87 0.0 20.2 30.4#

59 0.0 8.7 13.1#

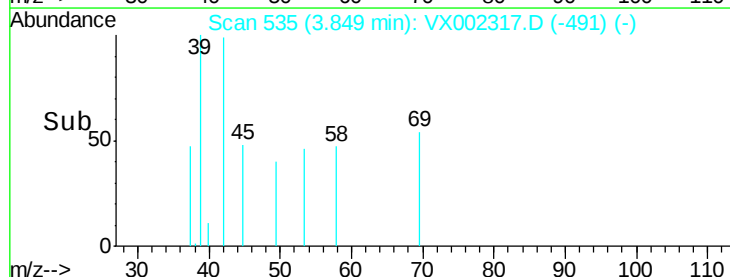
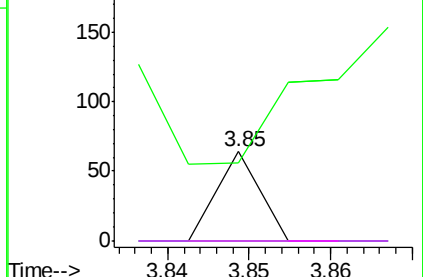


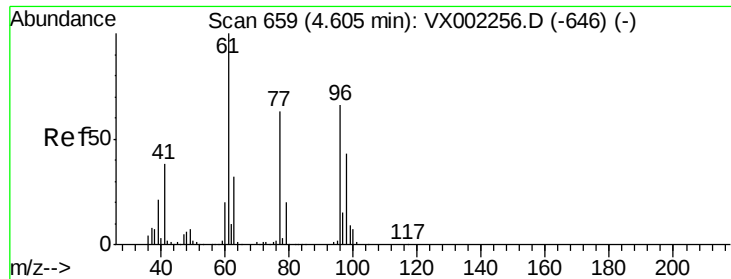
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



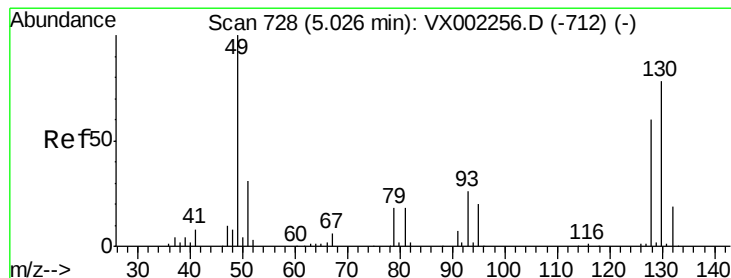
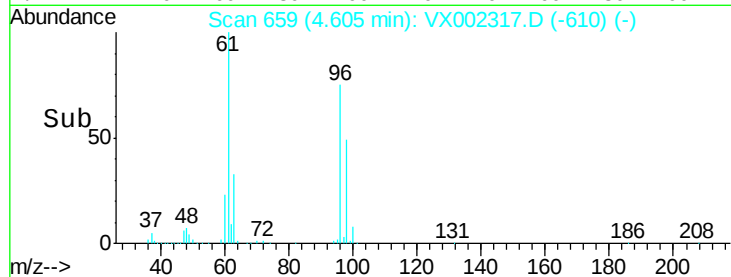
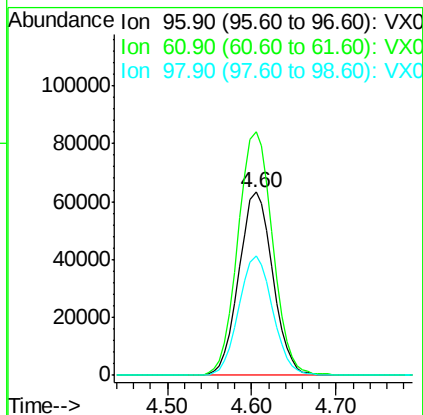
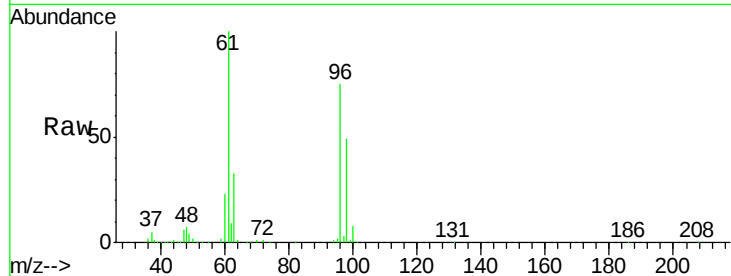


#27

cis-1,2-Dichloroethene
Concen: 61.07 ug/l
RT: 4.60 min Scan# 659
Delta R.T. -0.00 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Instrument :
MSVOA_X
ClientSampled :

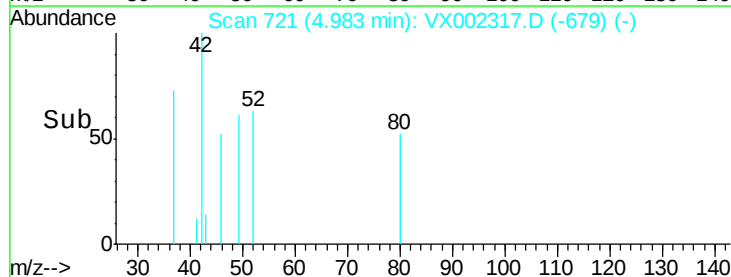
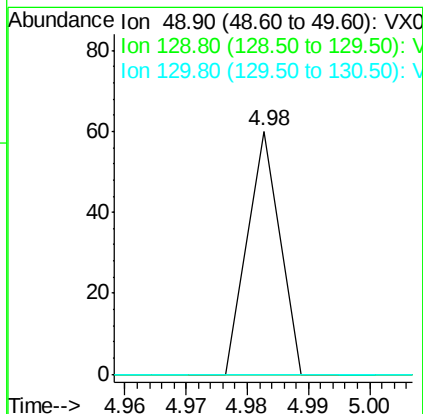
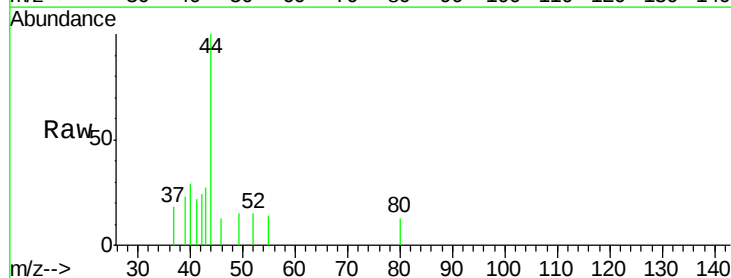
Tot Ion: 96 Resp: 172582
Ion Ratio Lower Upper
96 100
61 136.3 0.0 330.2
98 65.2 0.0 130.2

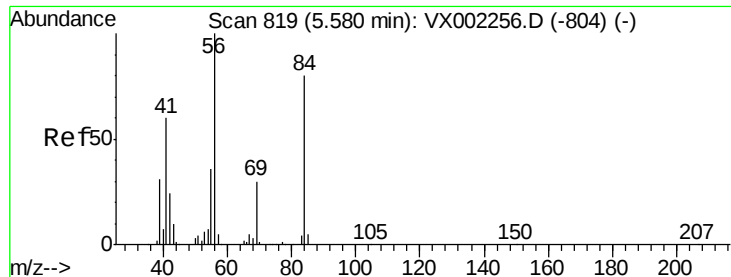


#28

Bromochloromethane
Concen: Below Cal
RT: 4.98 min Scan# 721
Delta R.T. -0.04 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

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

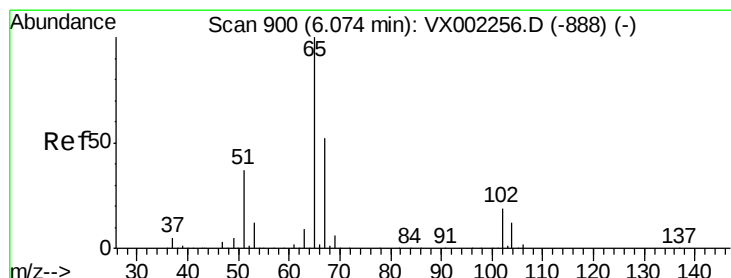
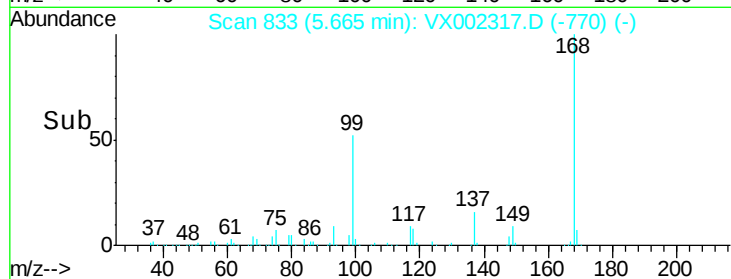
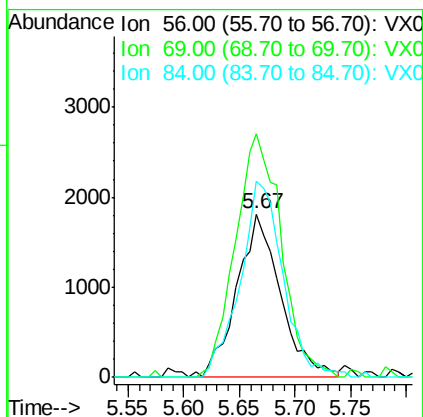
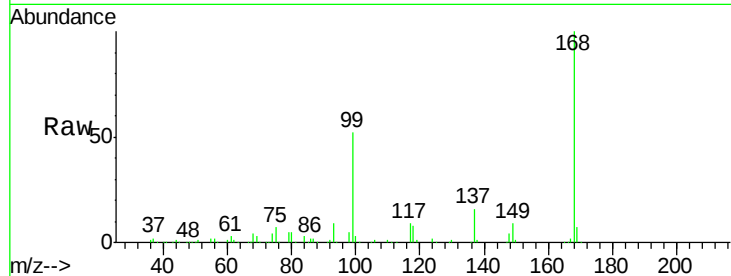




#31
Cvclohexane
Concen: 1.23 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

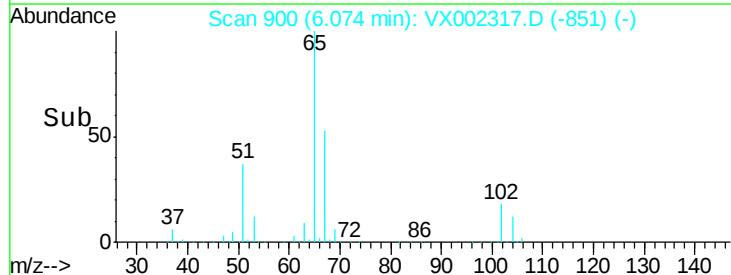
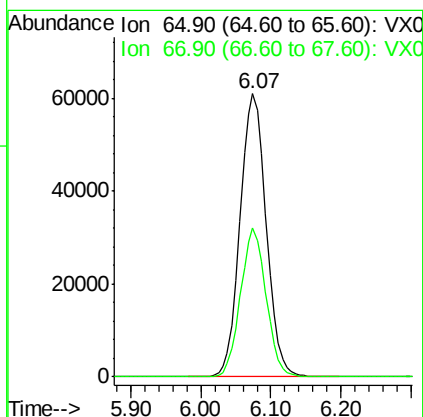
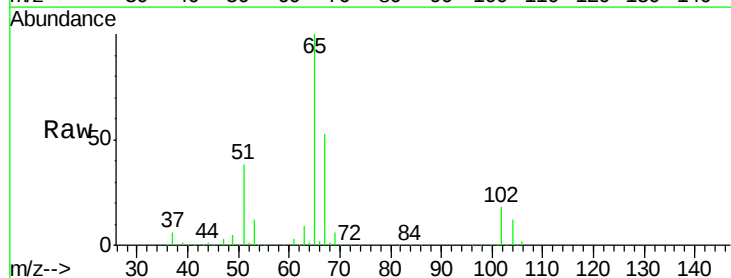
Instrument :
MSVOA_X
ClientSampleId :

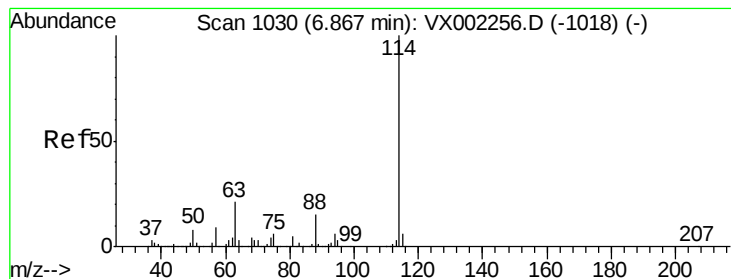
Tot Ion	56	Resp	4921
Ion Ratio	Lower	Upper	
56	100		
69	149.4	23.7	35.5#
84	120.2	64.1	96.1#



#33
1,2-Dichloroethane-d4
Concen: 50.05 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Tgt Ion	65	Resp	158408
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: VX002317.D

Acq: 05 Jun 2018 20:24

Instrument :

MSVOA_X

ClientSampleId :

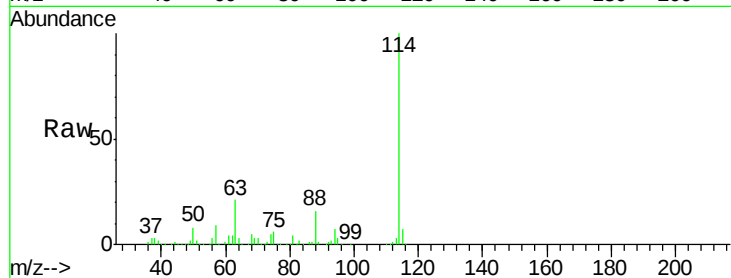
Tot Ion:114 Resp: 328549

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.4

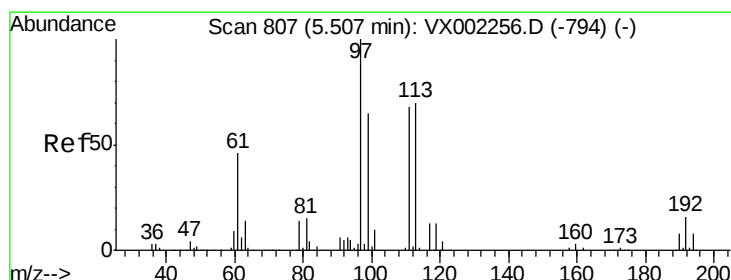
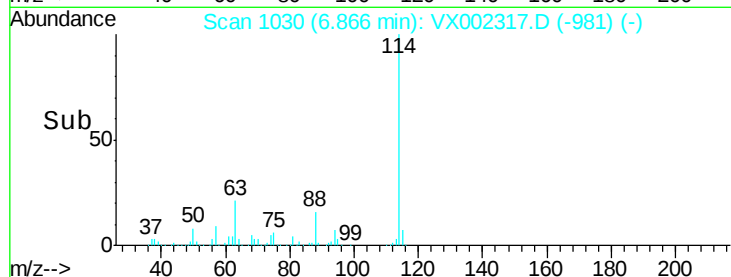
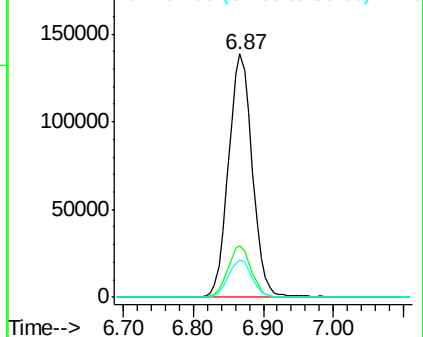
88 15.7 0.0 30.0



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: 45.37 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002317.D

Acq: 05 Jun 2018 20:24

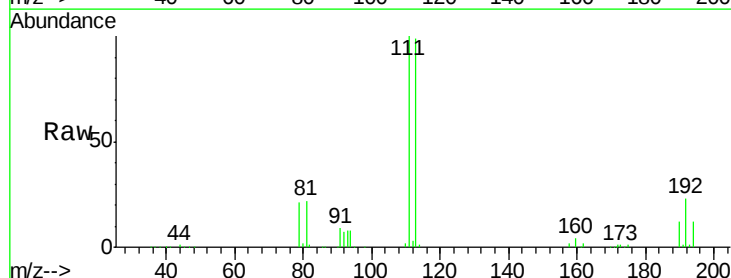
Tgt Ion:113 Resp: 117213

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

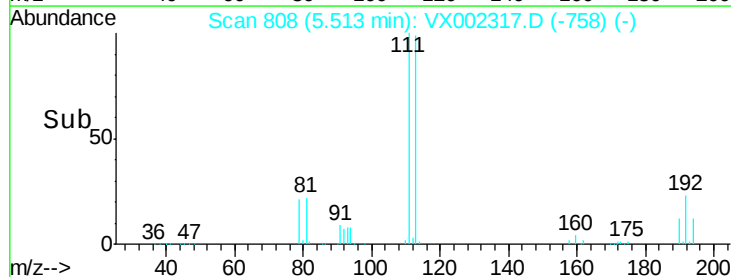
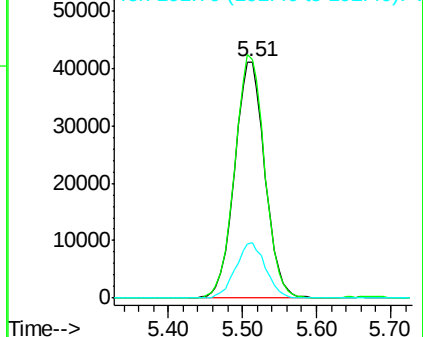
192 23.1 19.1 28.7

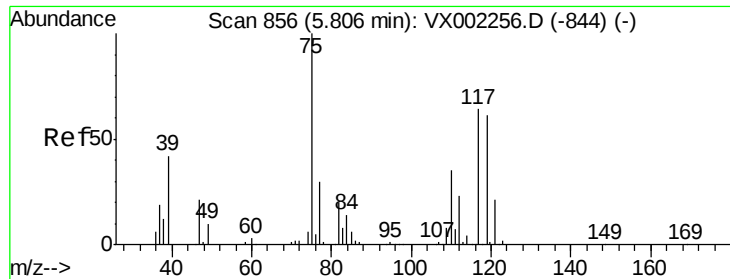


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

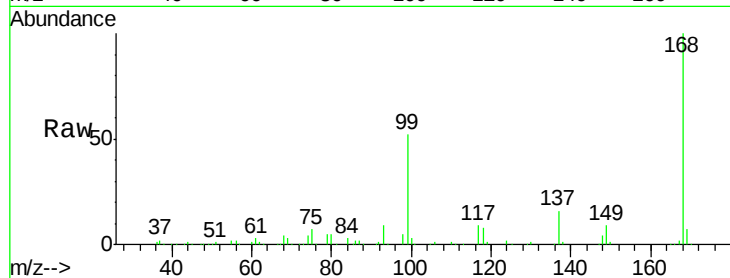




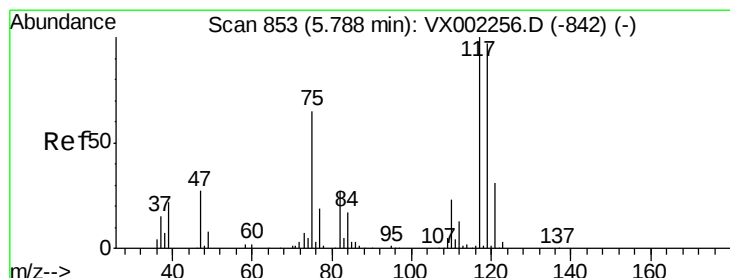
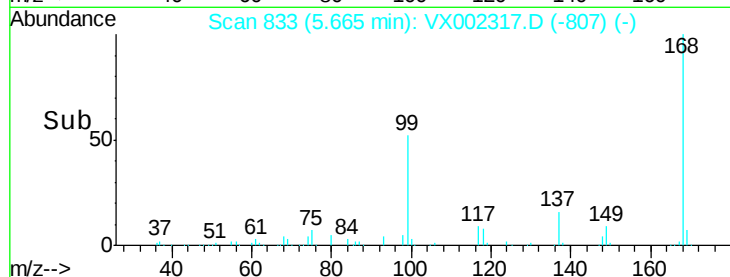
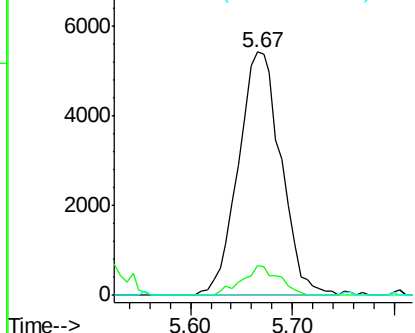
#36
 1,1-Dichloropropene
 Concen: 4.57 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002317.D
 Acq: 05 Jun 2018 20:24

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 15780
 Ion Ratio Lower Upper
 75 100
 110 10.6 18.1 54.4#
 77 0.0 24.3 36.5#

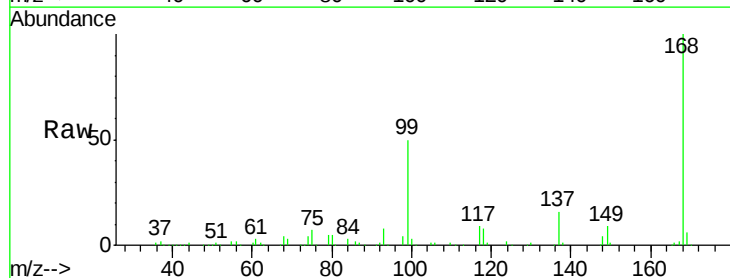


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

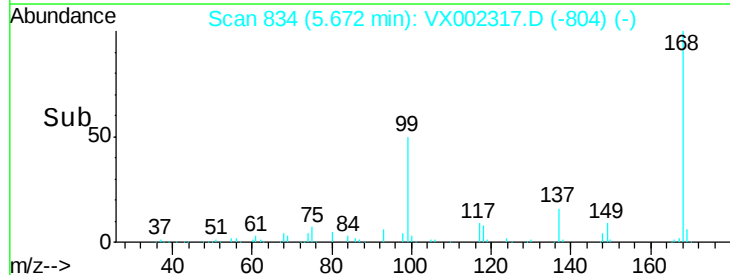
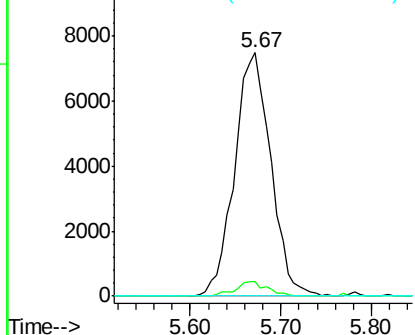


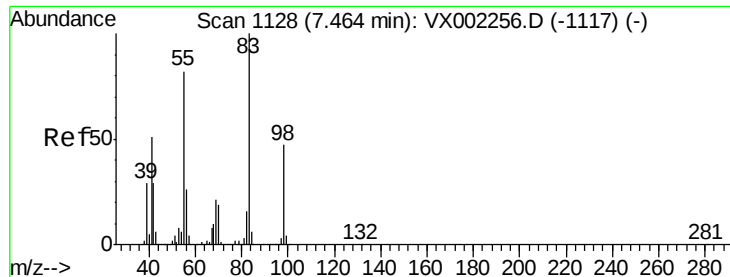
#38
 Carbon Tetrachloride
 Concen: 5.74 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002317.D
 Acq: 05 Jun 2018 20:24

Tgt Ion: 117 Resp: 20757
 Ion Ratio Lower Upper
 117 100
 119 5.8 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

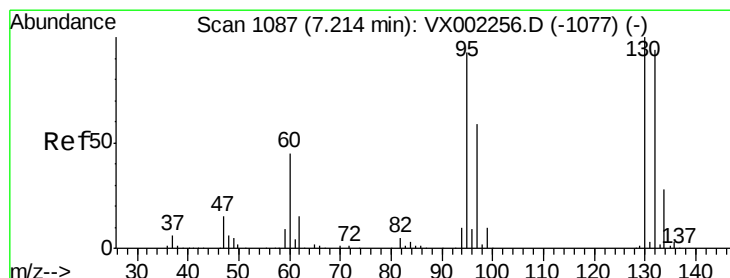
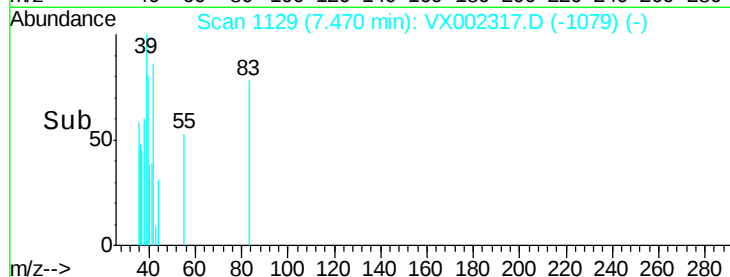
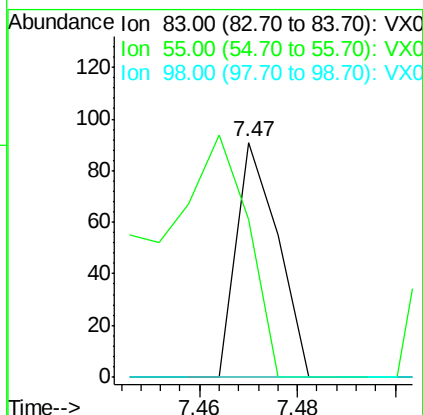
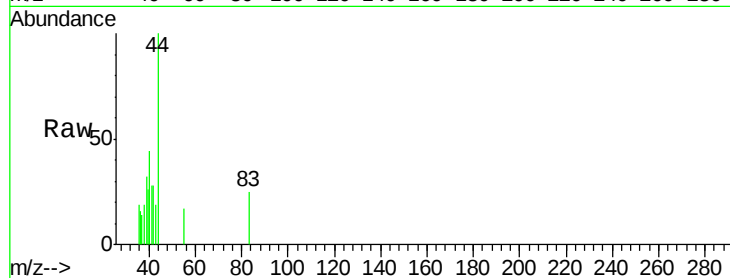




#39
Methylcyclohexane
Concen: 0.27 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

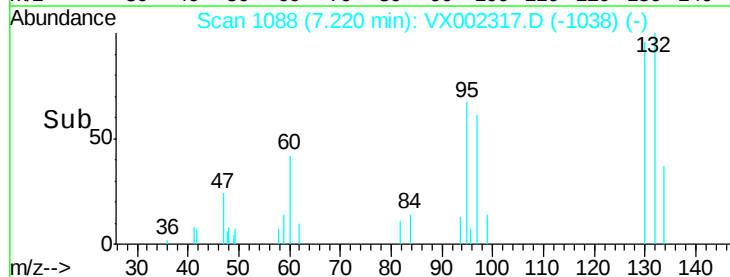
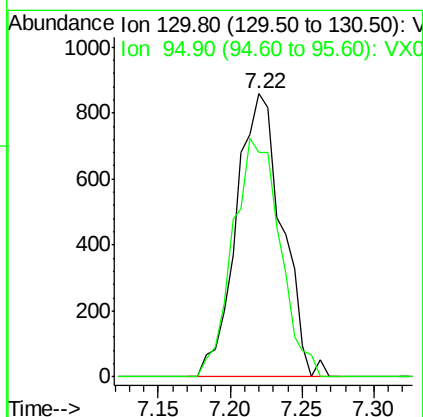
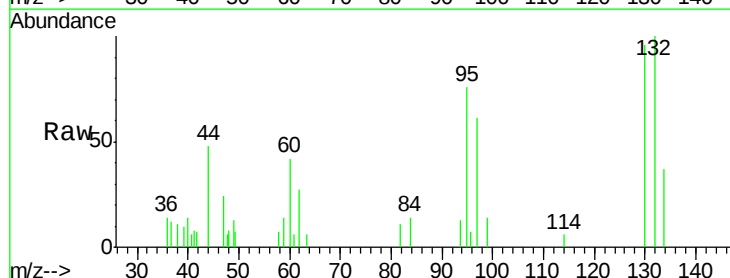
Instrument :
MSVOA_X
ClientSampled :

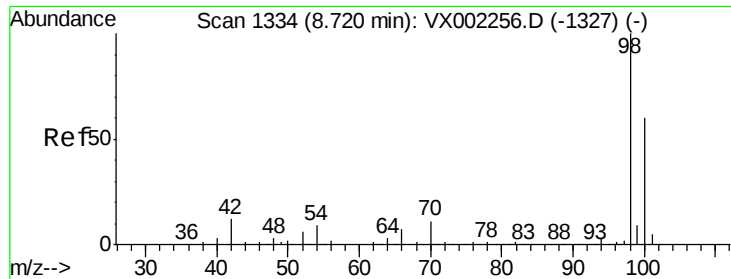
Tot Ion: 83 Resp: 53
Ion Ratio Lower Upper
83 100
55 67.0 65.4 98.0
98 0.0 37.4 56.0#



#44
Trichloroethene
Concen: 0.65 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Tgt Ion: 130 Resp: 1901
Ion Ratio Lower Upper
130 100
95 79.1 0.0 185.4

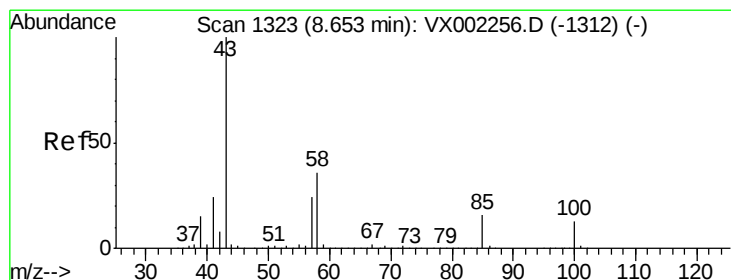
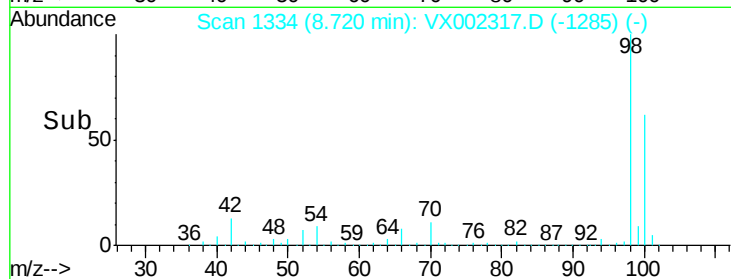
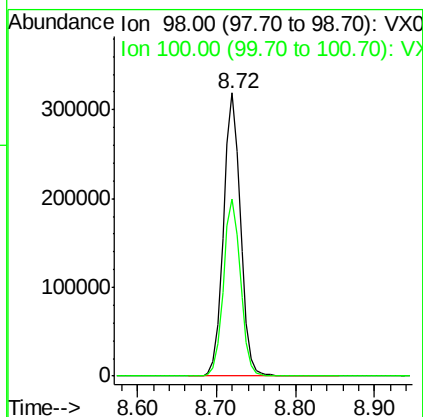
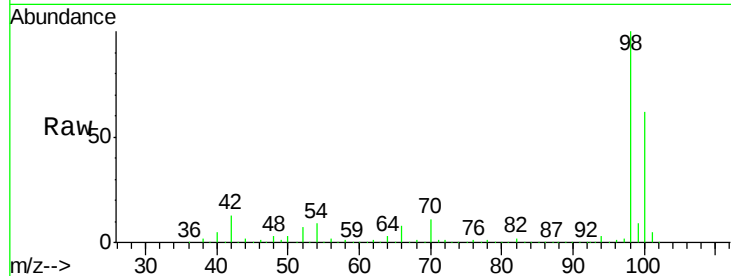




#50
Toluene-d8
Concen: 48.21 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

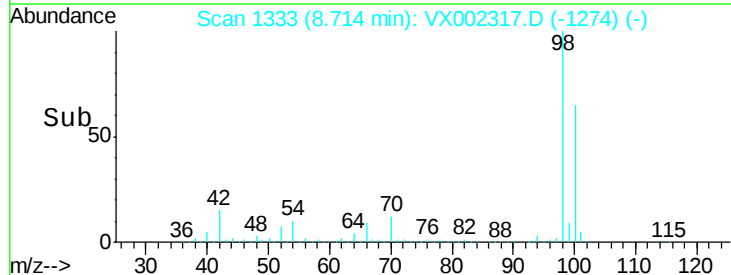
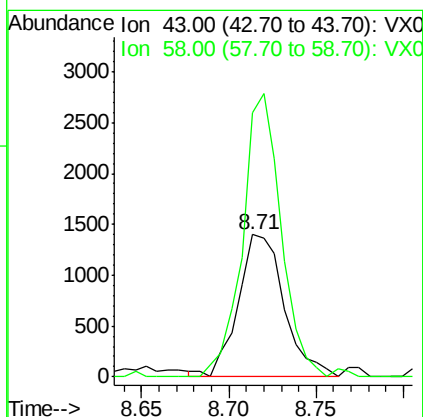
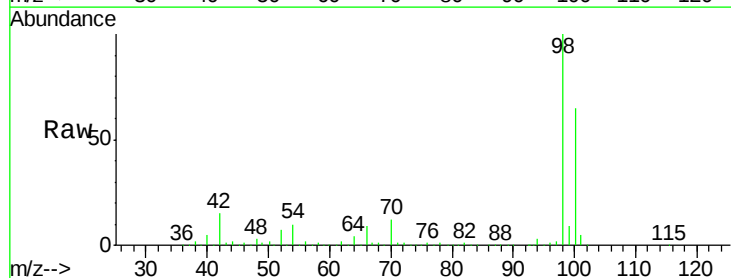
Instrument :
MSVOA_X
ClientSampleId :

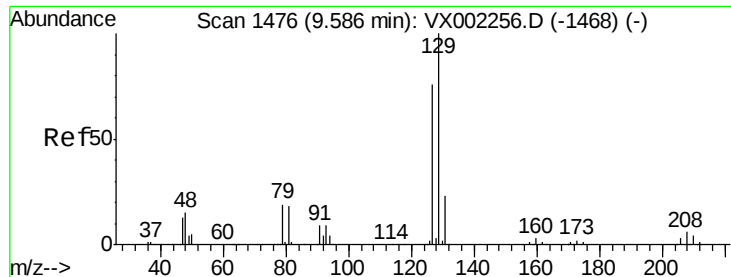
Tot Ion: 98 Resp: 477440
Ion Ratio Lower Upper
98 100
100 62.7 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.58 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. 0.06 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Tgt Ion: 43 Resp: 2558
Ion Ratio Lower Upper
43 100
58 166.1 28.6 42.8#

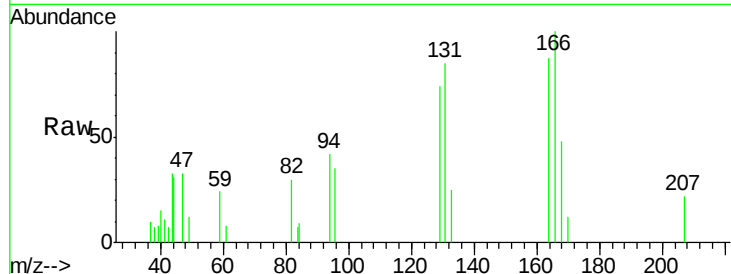




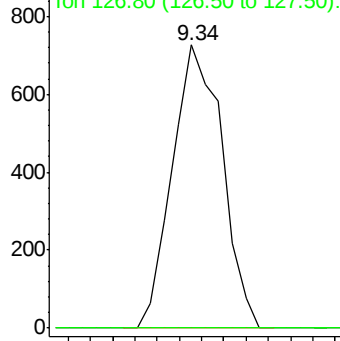
#60
Dibromochloromethane
Concen: 0.41 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Instrument :
MSVOA_X
ClientSampleId :

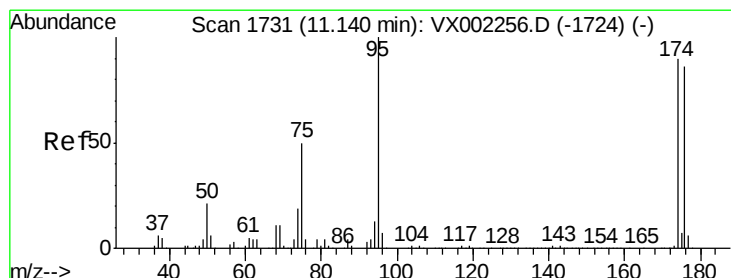
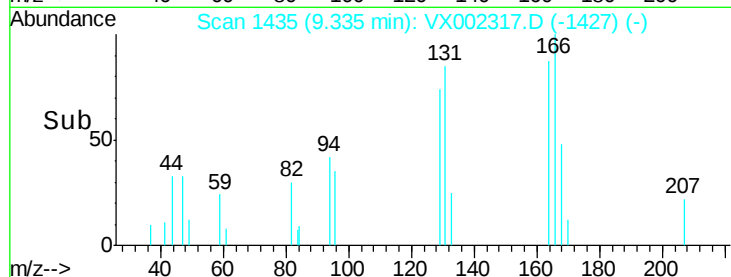
Tot Ion:129 Resp: 1131
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#



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

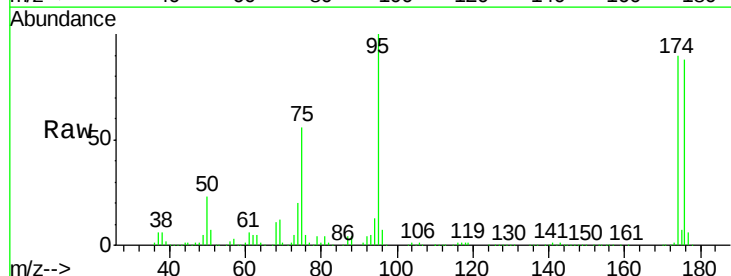


Time-->

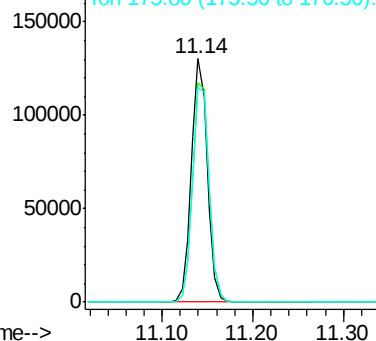


#62
4-Bromofluorobenzene
Concen: 41.95 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

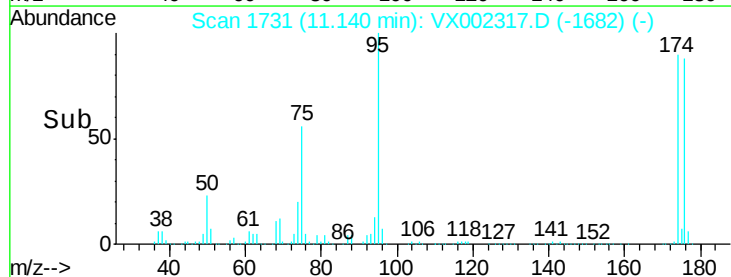
Tgt Ion: 95 Resp: 160192
Ion Ratio Lower Upper
95 100
174 93.5 0.0 187.4
176 92.3 0.0 181.0

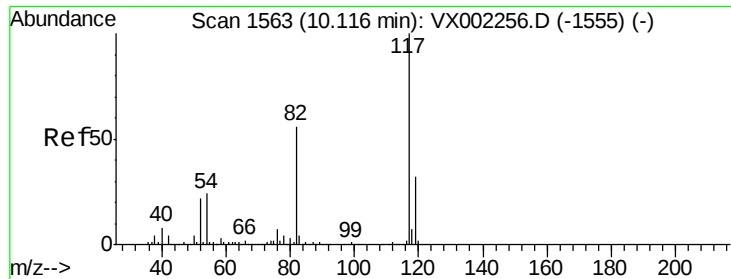


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V



Time-->

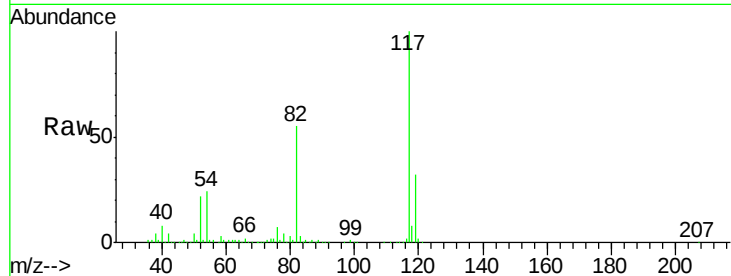




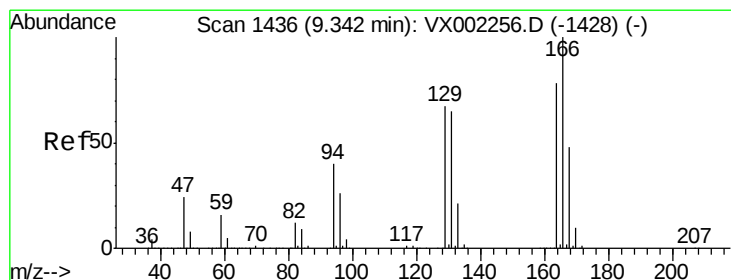
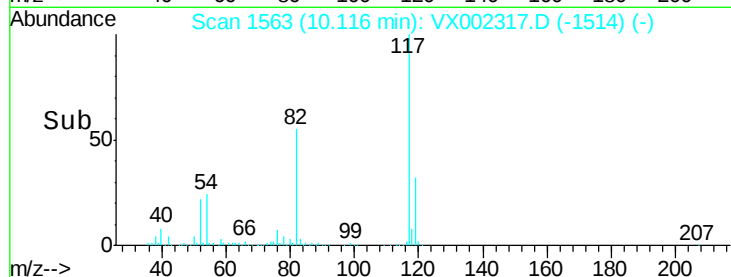
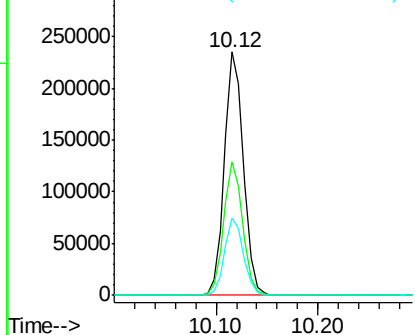
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 304310
Ion Ratio Lower Upper
117 100
82 55.1 45.0 67.4
119 31.8 25.8 38.6

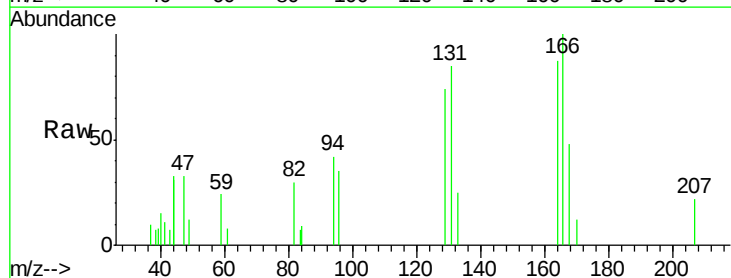


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

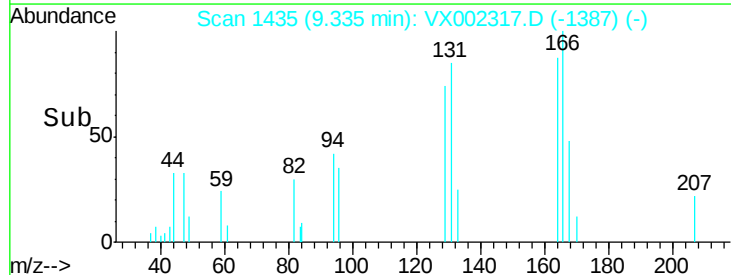
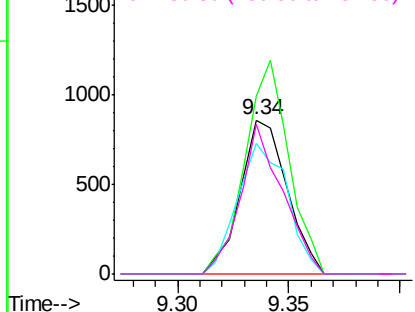


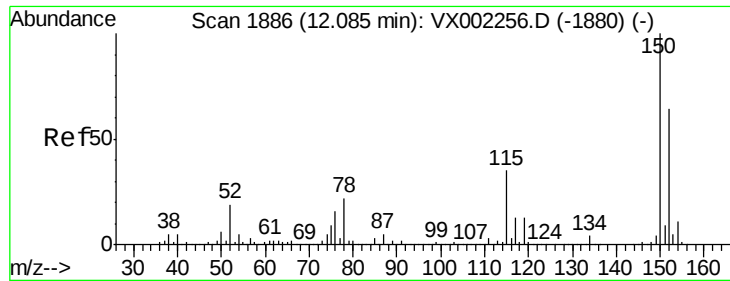
#64
Tetrachloroethene
Concen: 0.40 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.01 min
Lab File: VX002317.D
Acq: 05 Jun 2018 20:24

Tgt Ion:164 Resp: 1261
Ion Ratio Lower Upper
164 100
166 115.4 102.9 154.3
129 84.8 68.6 102.8
131 97.7 66.8 100.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX002317.D

Acq: 05 Jun 2018 20:24

Instrument :

MSVOA_X

ClientSampleId :

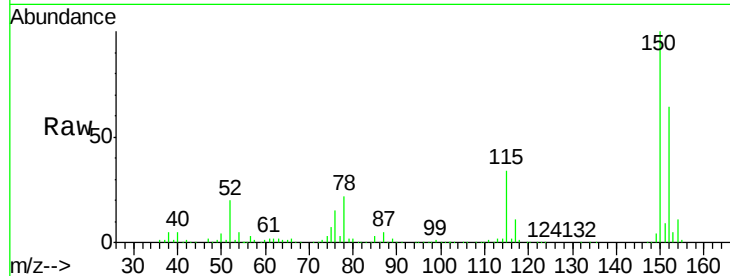
Tot Ion:152 Resp: 162727

Ion Ratio Lower Upper

152 100

115 55.5 40.1 120.2

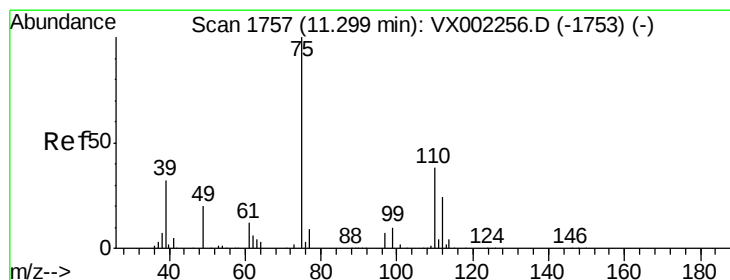
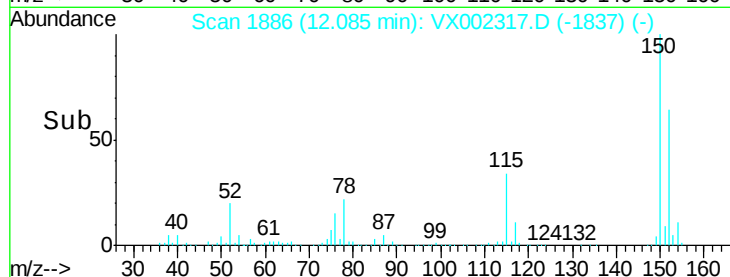
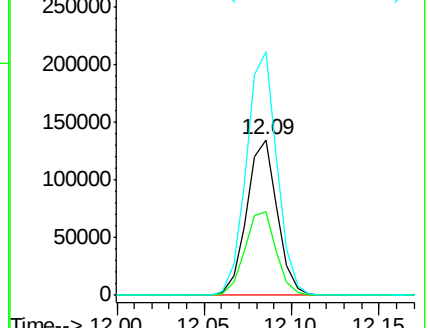
150 158.0 0.0 347.2



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: 24.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002317.D

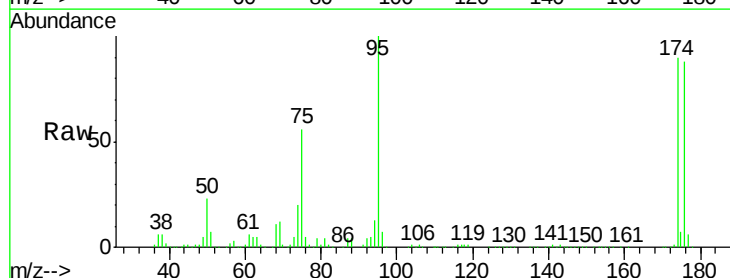
Acq: 05 Jun 2018 20:24

Tgt Ion: 75 Resp: 86747

Ion Ratio Lower Upper

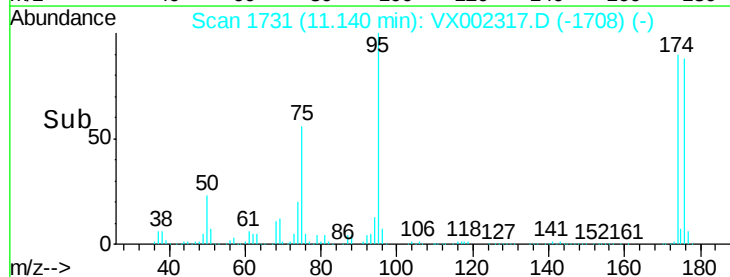
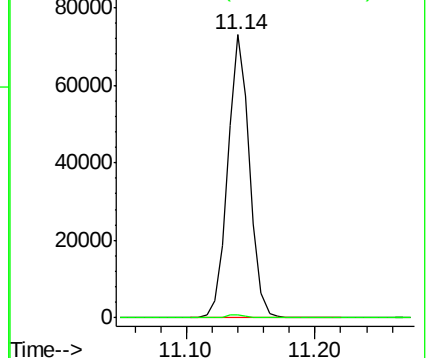
75 100

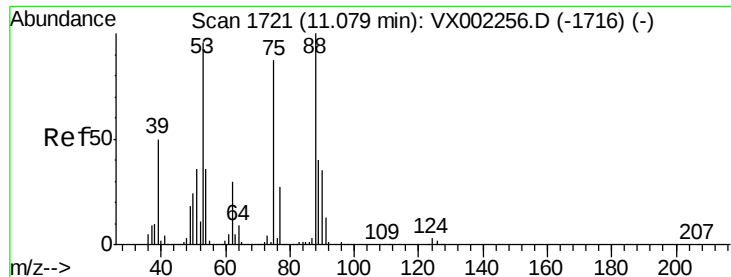
77 1.3 22.8 68.3#



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: 85.16 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002317.D

Acq: 05 Jun 2018 20:24

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 86747

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

