

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091619\
 Data File : VX012409.D
 Acq On : 16 Sep 2019 16:40
 Operator : JC/SP
 Sample : VX0916WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBL01

Quant Time: Sep 17 04:51:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 04:36:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	146423	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	224820	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	210024	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	119239	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	153787	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
35) Dibromofluoromethane	5.48	113	111530	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
50) Toluene-d8	8.71	98	403638	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
62) 4-Bromofluorobenzene	11.14	95	158129	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	

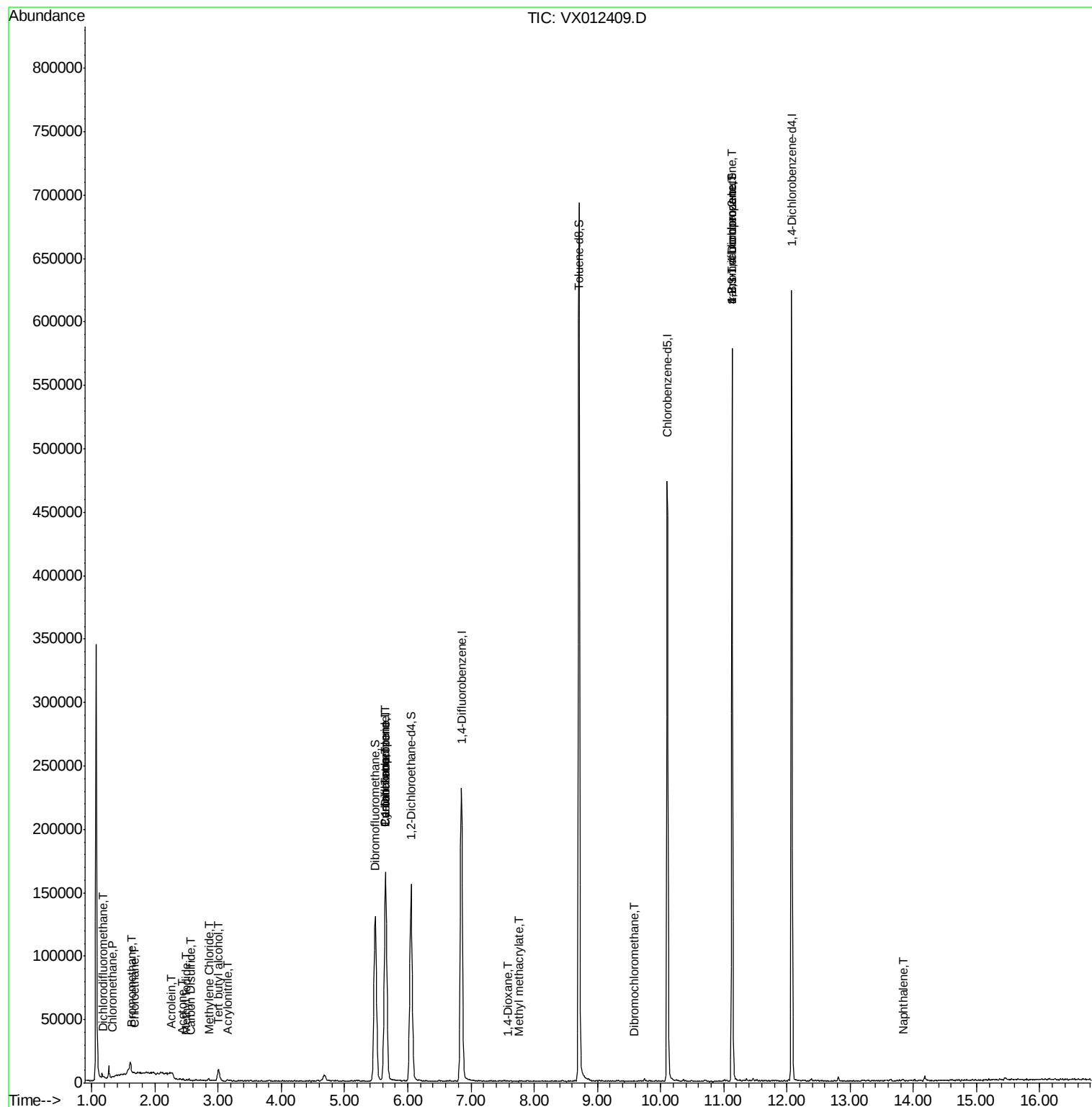
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	57	0.528	ug/l #	42
3) Chloromethane	1.33	50	253	0.225	ug/l #	1
5) Bromomethane	1.64	94	839	1.604	ug/l	81
6) Chloroethane	1.69	64	425	0.522	ug/l #	43
10) Methyl Iodide	2.50	142	397	0.256	ug/l #	54
11) Tert butyl alcohol	3.01	59	5796	7.656	ug/l #	83
13) Acrolein	2.27	56	188	0.576	ug/l #	1
15) Acrylonitrile	3.14	53	337	0.269	ug/l	94
16) Acetone	2.44	43	908	0.674	ug/l #	81
17) Carbon Disulfide	2.56	76	491	1.759	ug/l #	75
20) Methylene Chloride	2.85	84	668	0.363	ug/l #	65
31) Cyclohexane	5.65	56	3898	1.891	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	12717	6.121	ug/l #	52
38) Carbon Tetrachloride	5.64	117	15803	6.233	ug/l #	16
48) Methyl methacrylate	7.76	41	113	1.490	ug/l #	1
49) 1,4-Dioxane	7.58	88	30	0.479	ug/l #	1
60) Dibromochloromethane	9.58	129	42	1.760	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	81707	26.508	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	81707	74.830	ug/l #	7
95) Naphthalene	13.84	128	786	0.431	ug/l #	90

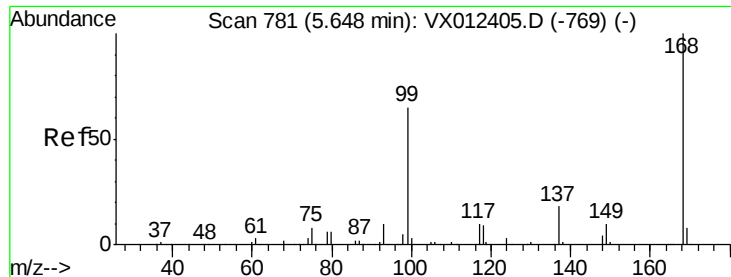
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 17 04:36:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

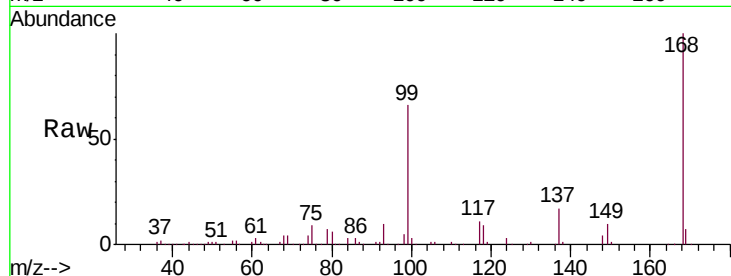
VX0916WBL01

Tgt Ion:168 Resp: 146423

Ion Ratio Lower Upper

168 100

99 65.5 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

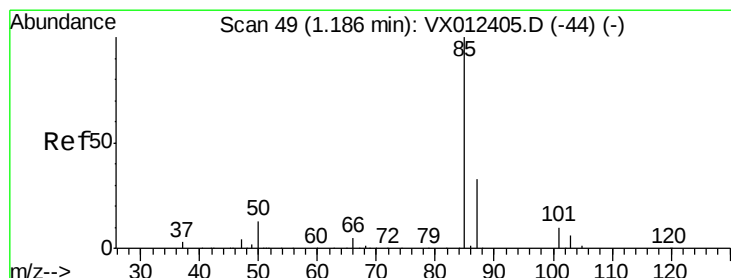
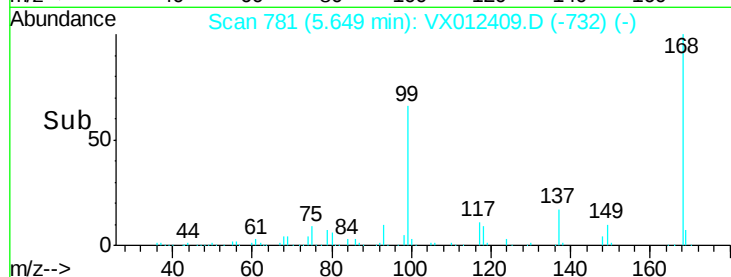
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.528 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX012409.D

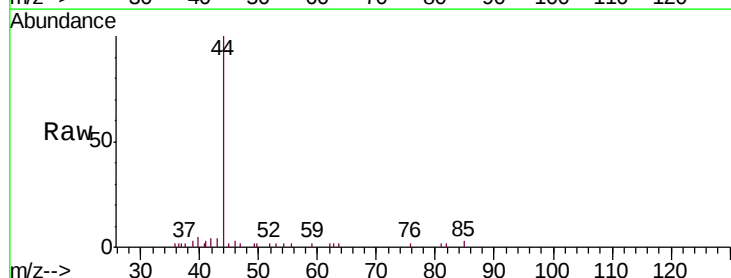
Acq: 16 Sep 2019 16:40

Tgt Ion: 85 Resp: 57

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

100

80

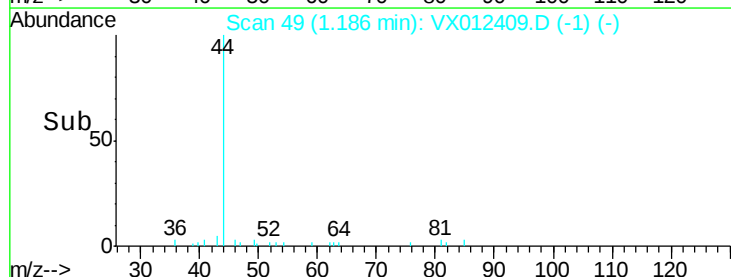
60

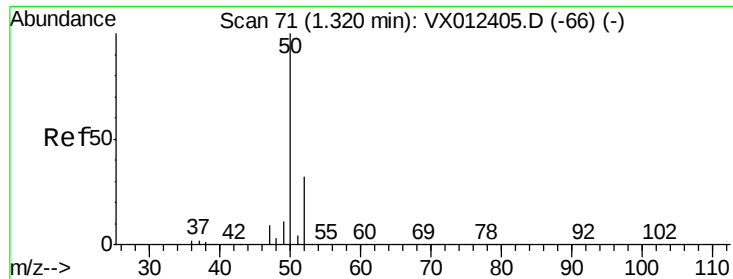
40

20

0

Time--> 1.16 1.18 1.20





#3

Chloromethane

Concen: 0.225 ug/l

RT: 1.33 min Scan# 72

Delta R.T. 0.01 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

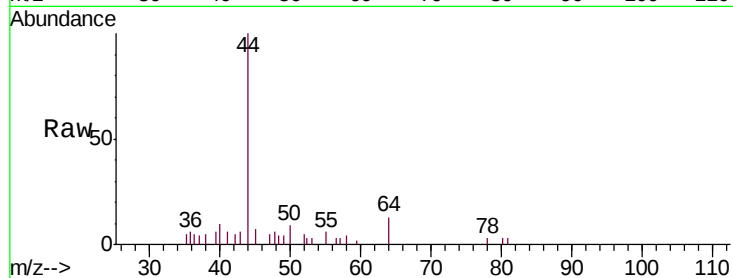
VX0916WBL01

Tgt Ion: 50 Resp: 253

Ion Ratio Lower Upper

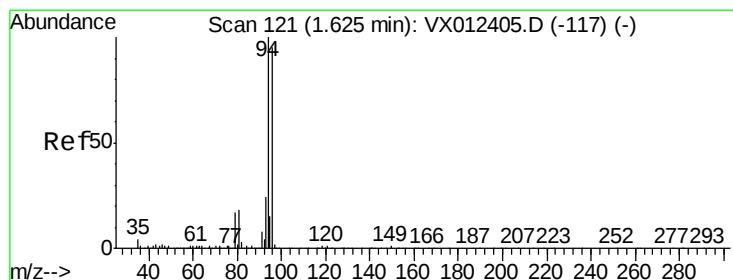
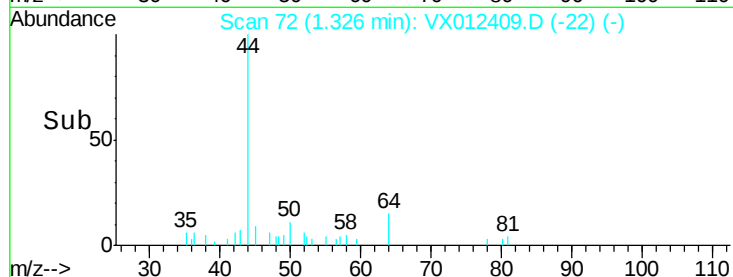
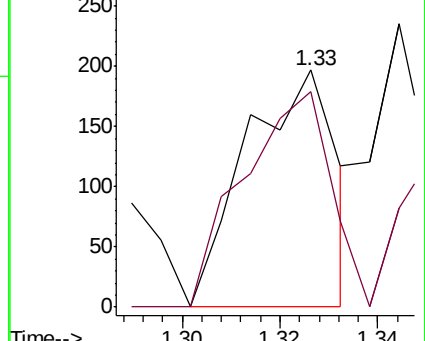
50 100

52 90.9 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 1.604 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012409.D

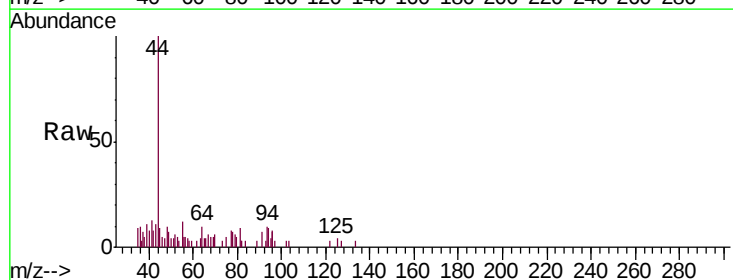
Acq: 16 Sep 2019 16:40

Tgt Ion: 94 Resp: 839

Ion Ratio Lower Upper

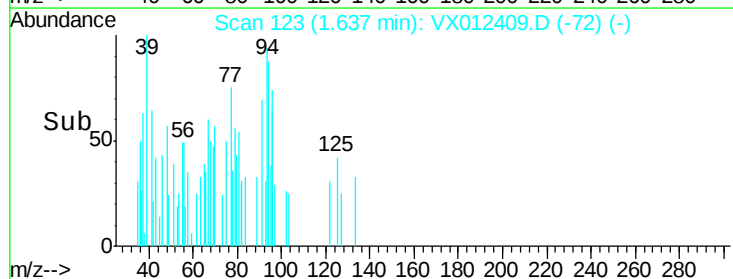
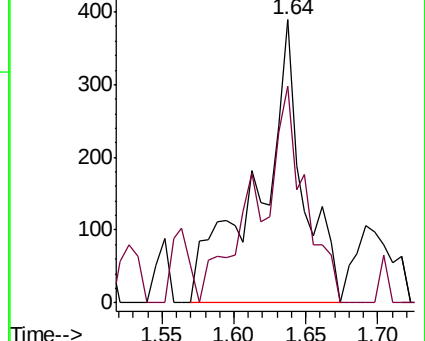
94 100

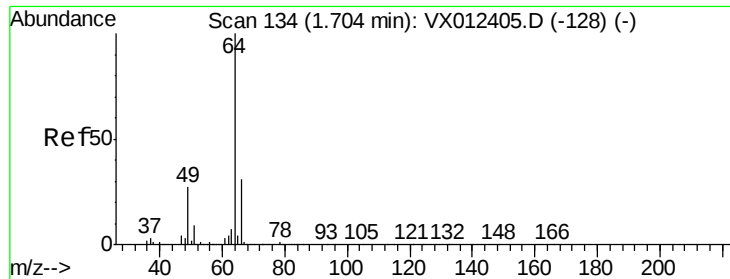
96 76.6 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.522 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

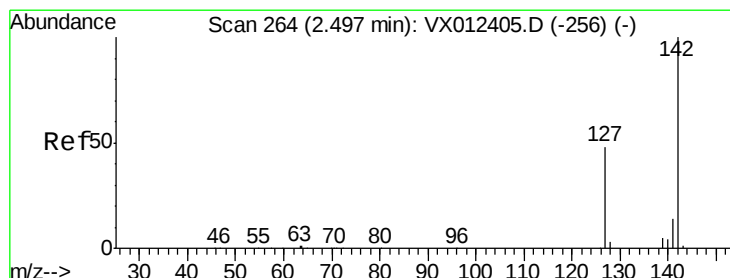
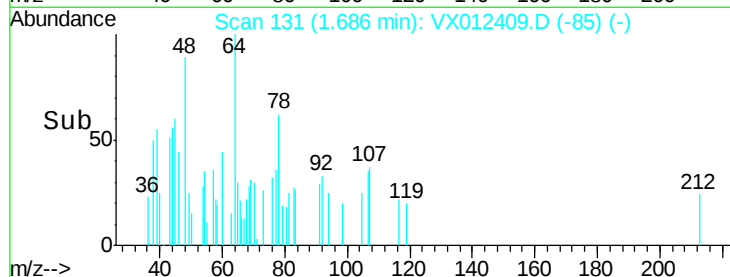
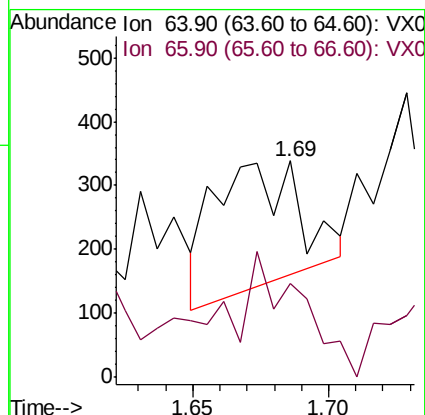
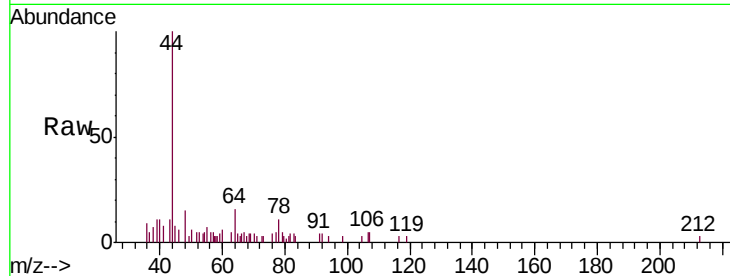
VX0916WBL01

Tgt Ion: 64 Resp: 425

Ion Ratio Lower Upper

64 100

66 62.2 24.7 37.1#



#10

Methyl Iodide

Concen: 0.256 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

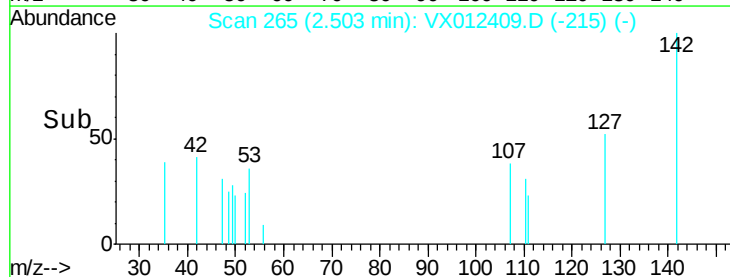
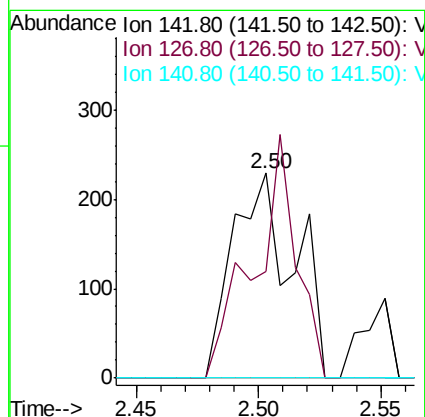
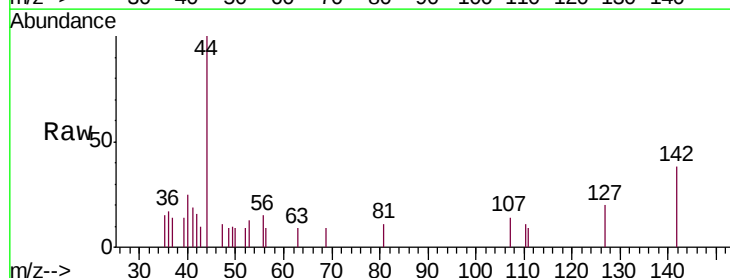
Tgt Ion: 142 Resp: 397

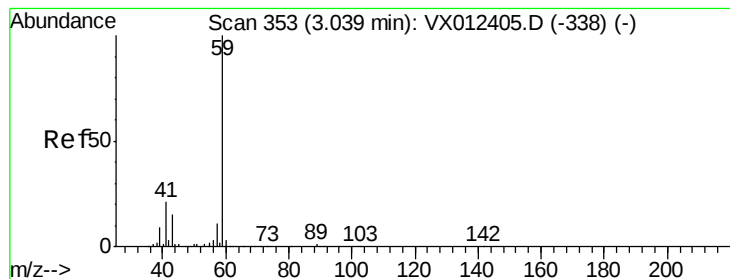
Ion Ratio Lower Upper

142 100

127 83.1 39.6 59.4#

141 0.0 11.6 17.4#





#11

Tert butyl alcohol

Concen: 7.656 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

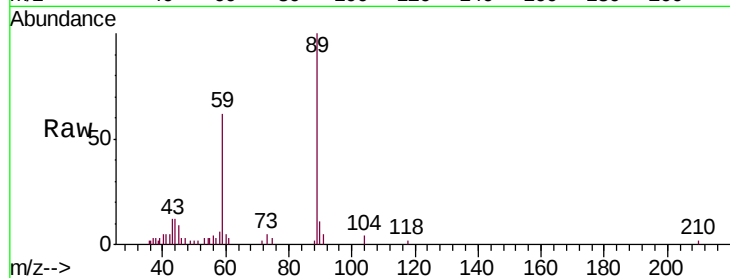
VX0916WBL01

Tgt Ion: 59 Resp: 5796

Ion Ratio Lower Upper

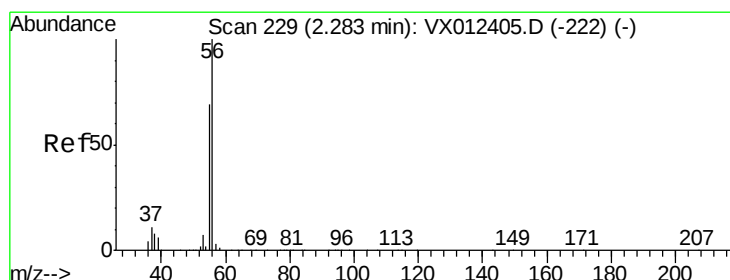
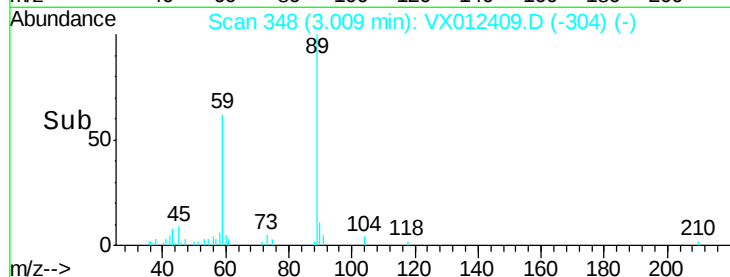
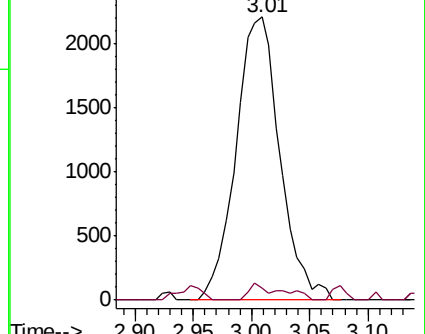
59 100

57 4.2 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.576 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX012409.D

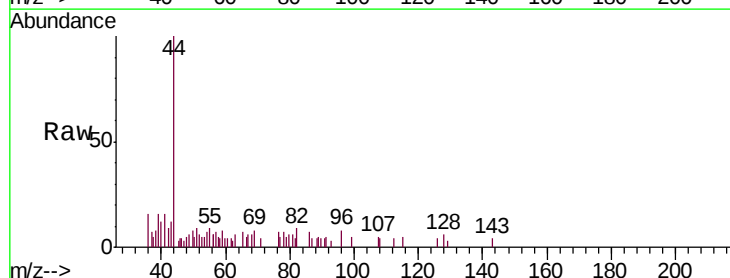
Acq: 16 Sep 2019 16:40

Tgt Ion: 56 Resp: 188

Ion Ratio Lower Upper

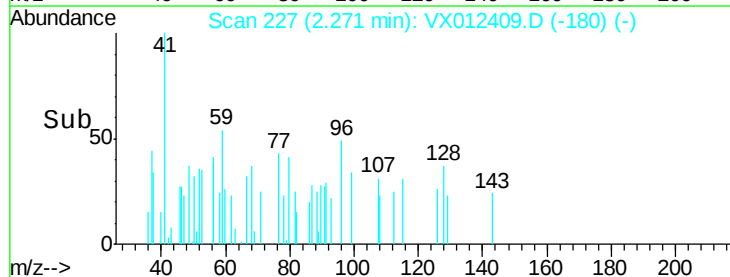
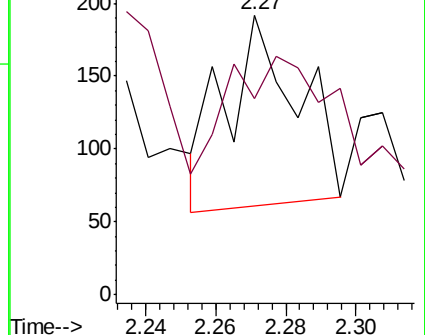
56 100

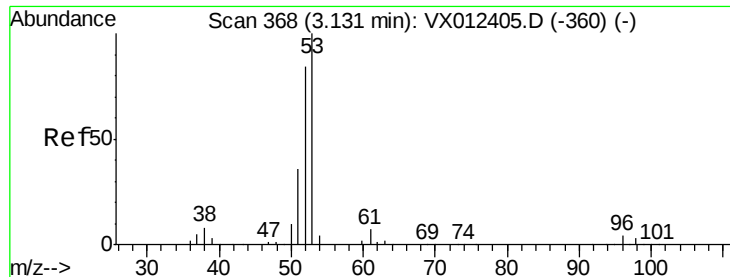
55 265.4 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.269 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBL01

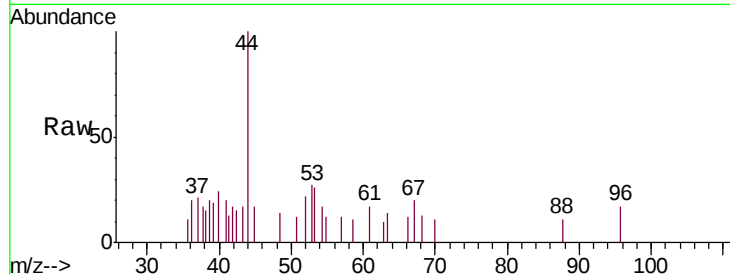
Tgt Ion: 53 Resp: 337

Ion Ratio Lower Upper

53 100

52 76.9 67.4 101.2

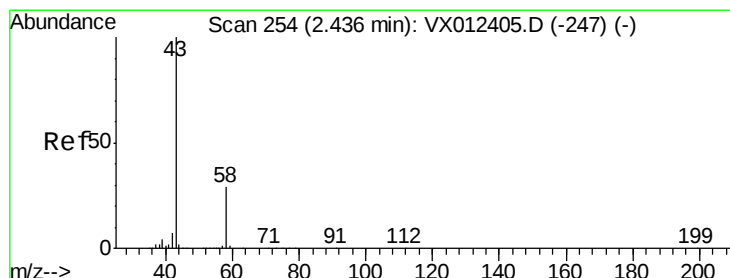
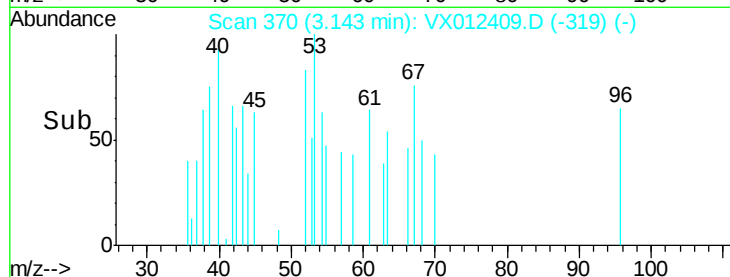
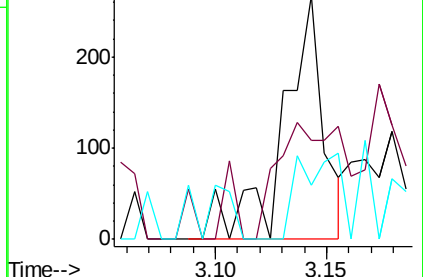
51 35.9 29.8 44.6



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: 0.674 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX012409.D

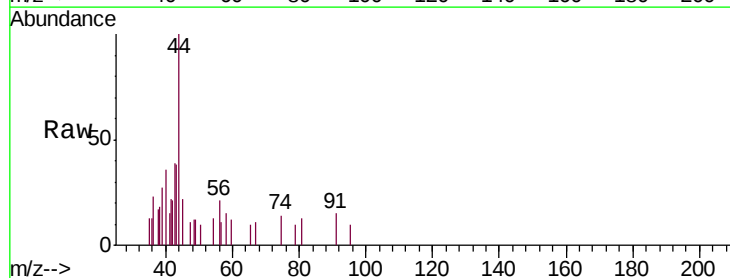
Acq: 16 Sep 2019 16:40

Tgt Ion: 43 Resp: 908

Ion Ratio Lower Upper

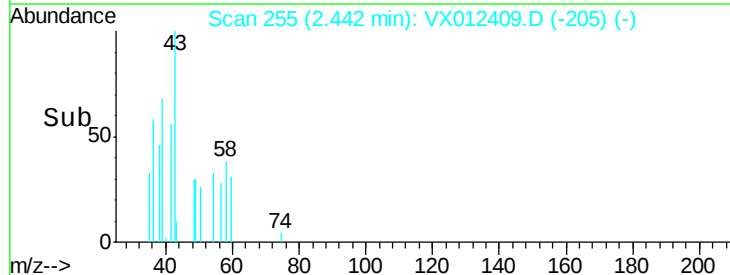
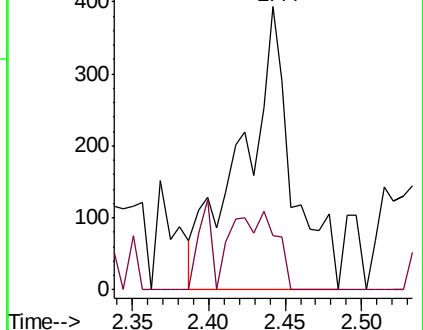
43 100

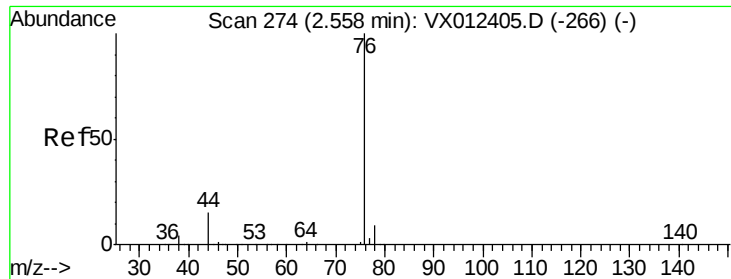
58 19.3 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.759 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

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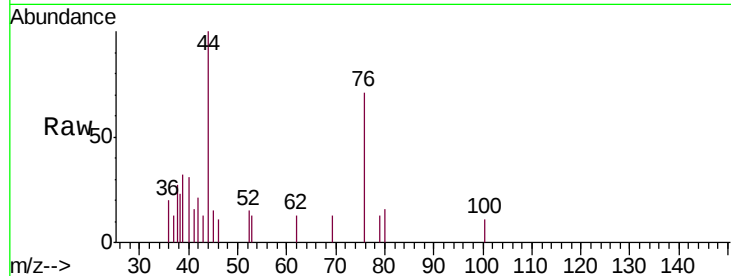
VX0916WBL01

Tgt Ion: 76 Resp: 491

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

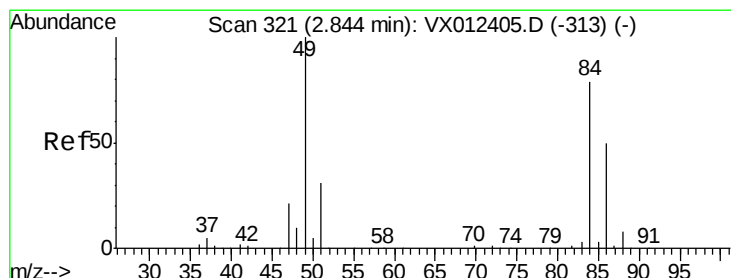
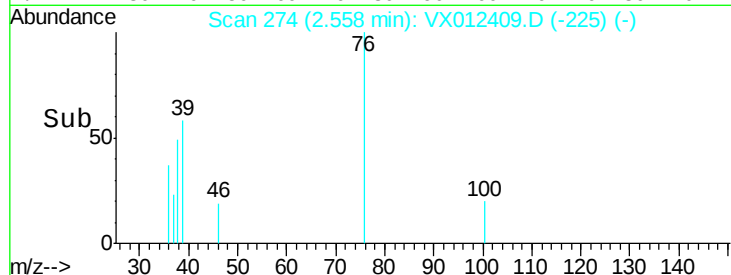
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 0.363 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Tgt Ion: 84 Resp: 668

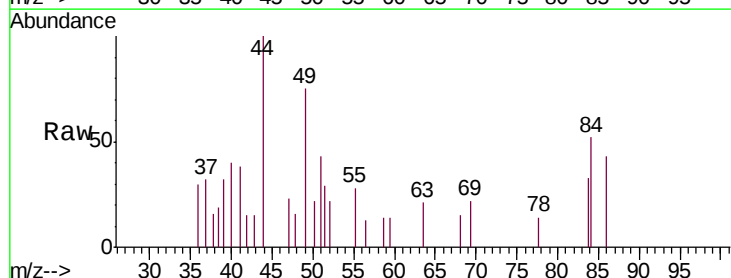
Ion Ratio Lower Upper

84 100

49 89.4 101.7 152.5#

51 85.0 31.2 46.8#

86 51.5 50.3 75.5



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

500

400

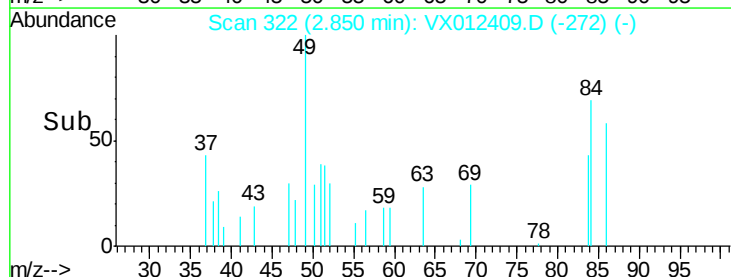
300

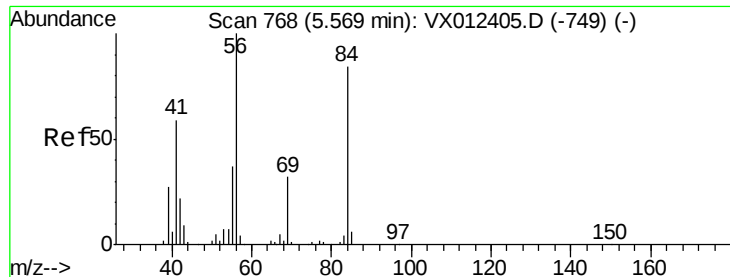
200

100

0

Time-->

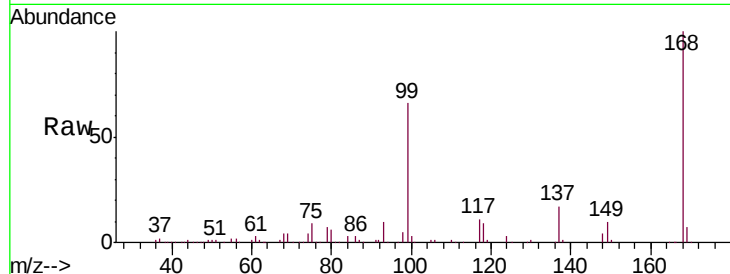




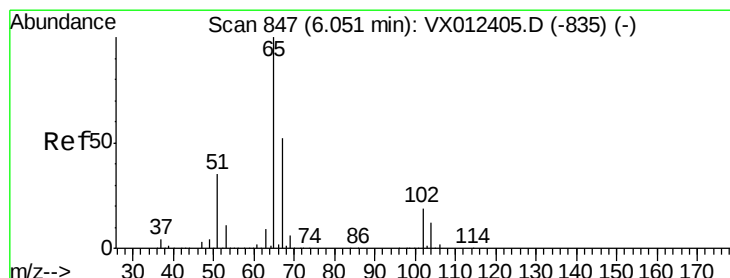
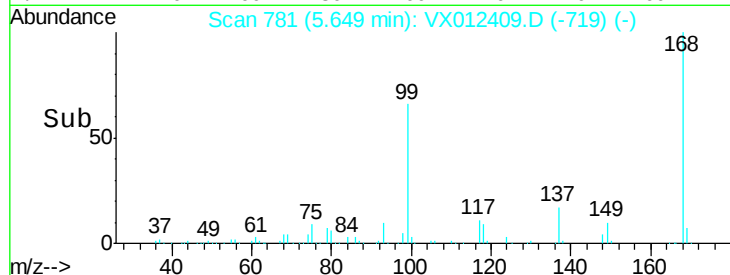
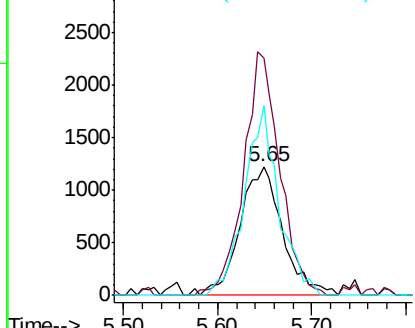
#31
Cyclohexane
Concen: 1.891 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012409.D
Acq: 16 Sep 2019 16:40

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBL01

Tgt Ion: 56 Resp: 3898
Ion Ratio Lower Upper
56 100
69 184.5 24.9 37.3#
84 147.1 67.2 100.8#

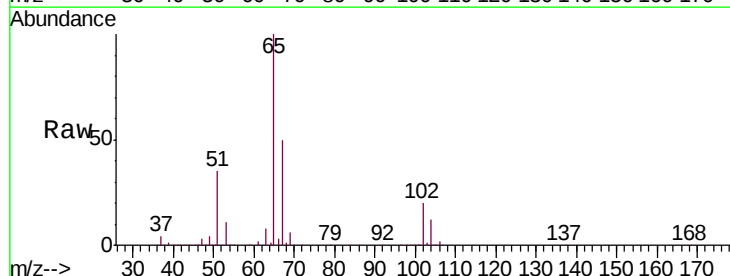


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

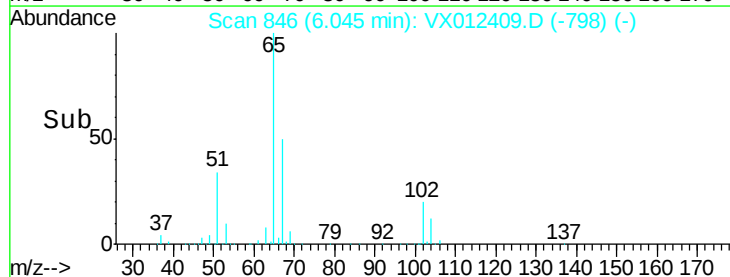
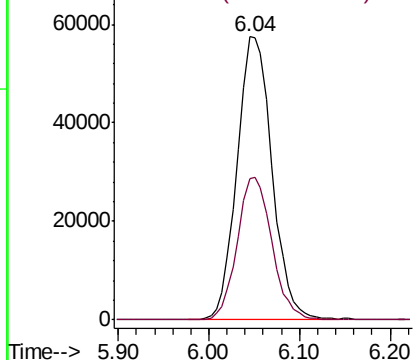


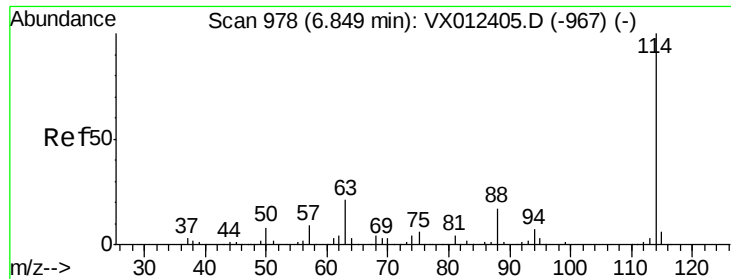
#33
1,2-Dichloroethane-d4
Concen: 51.258 ug/l
RT: 6.04 min Scan# 846
Delta R.T. -0.01 min
Lab File: VX012409.D
Acq: 16 Sep 2019 16:40

Tgt Ion: 65 Resp: 153787
Ion Ratio Lower Upper
65 100
67 50.1 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

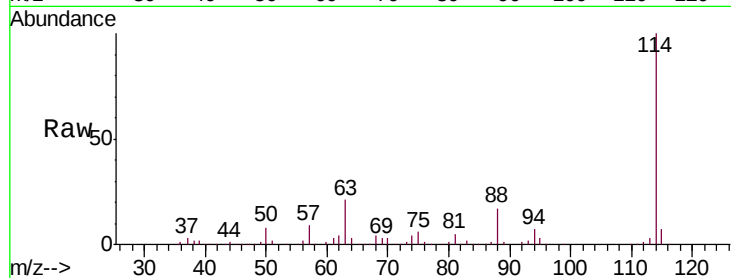




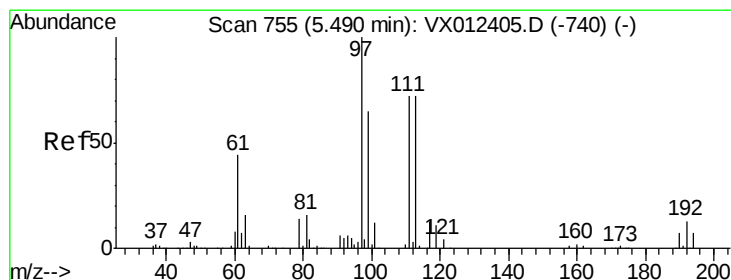
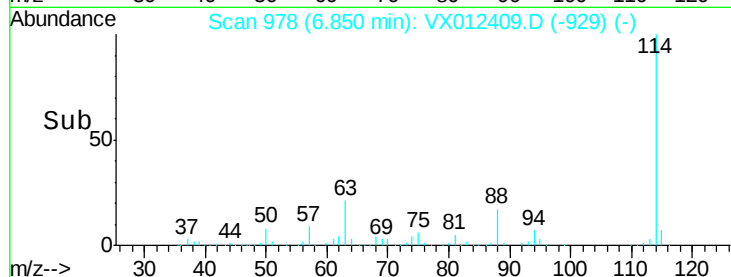
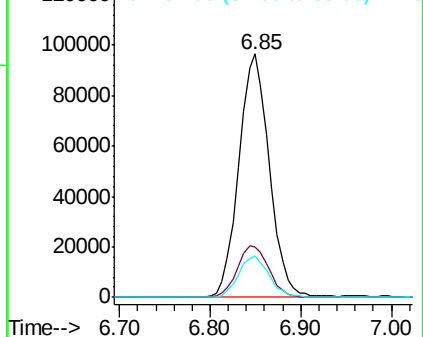
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012409.D
 Acq: 16 Sep 2019 16:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBL01

Tgt Ion:114 Resp: 224820
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 42.4
 88 17.0 0.0 33.4

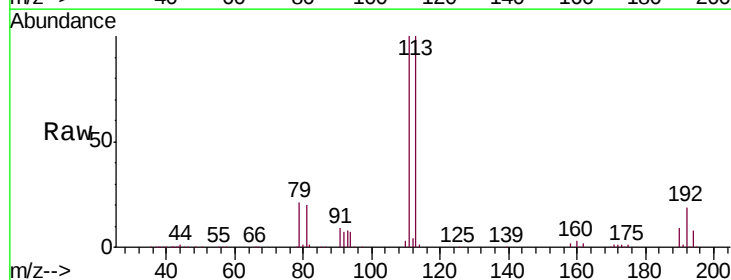


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

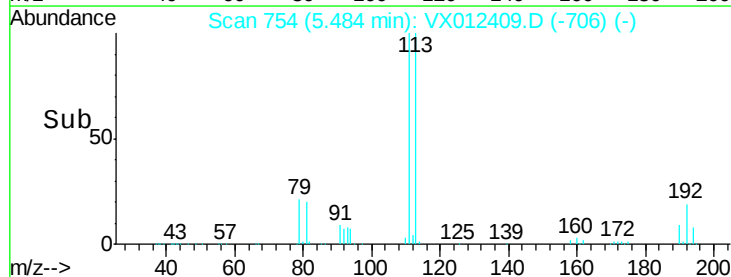
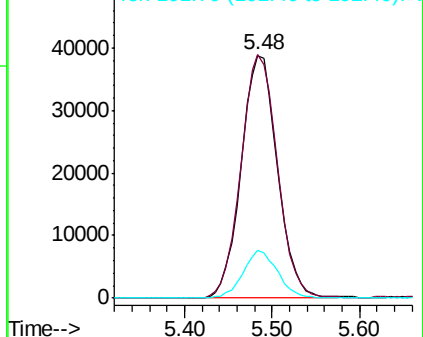


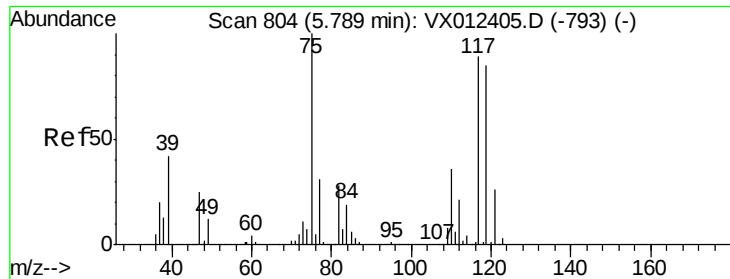
#35
 Dibromofluoromethane
 Concen: 51.212 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX012409.D
 Acq: 16 Sep 2019 16:40

Tgt Ion:113 Resp: 111530
 Ion Ratio Lower Upper
 113 100
 111 100.8 81.8 122.6
 192 18.7 15.0 22.4



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: 6.121 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBL01

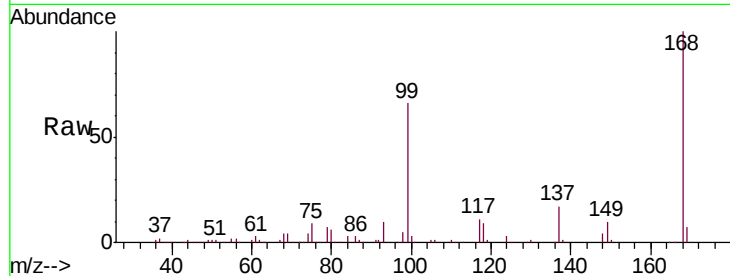
Tgt Ion: 75 Resp: 12717

Ion Ratio Lower Upper

75 100

110 10.6 17.4 52.2#

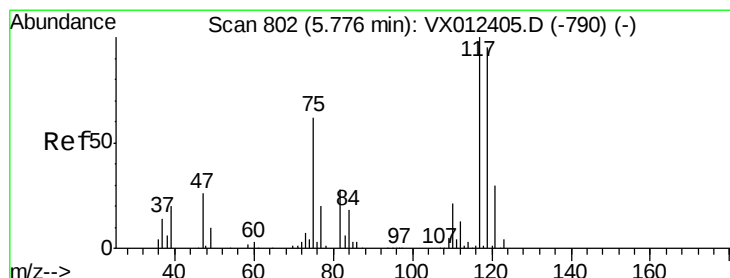
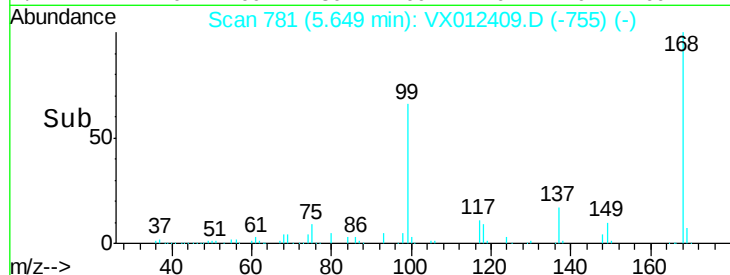
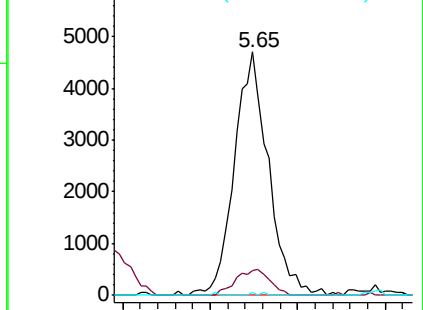
77 0.4 24.8 37.2#



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: 6.233 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

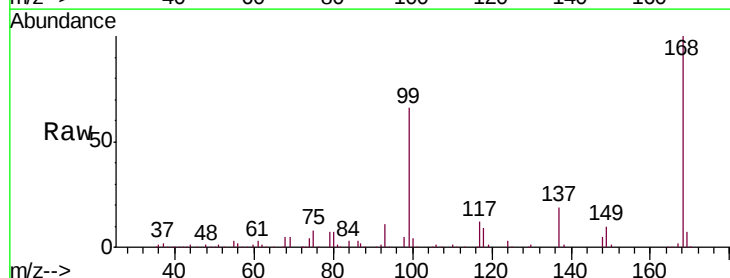
Tgt Ion: 117 Resp: 15803

Ion Ratio Lower Upper

117 100

119 4.7 75.8 113.8#

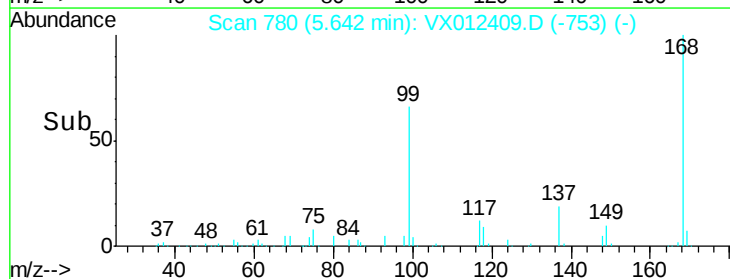
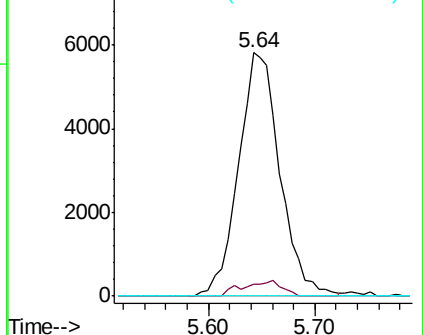
121 0.0 23.8 35.6#

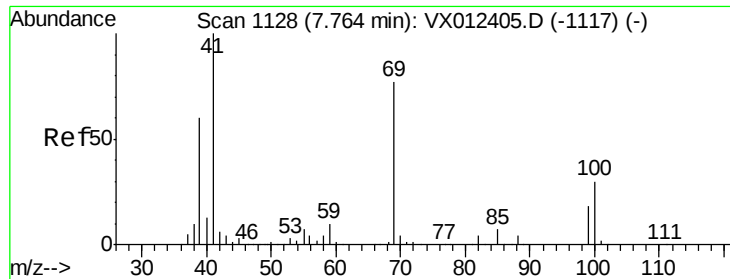


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

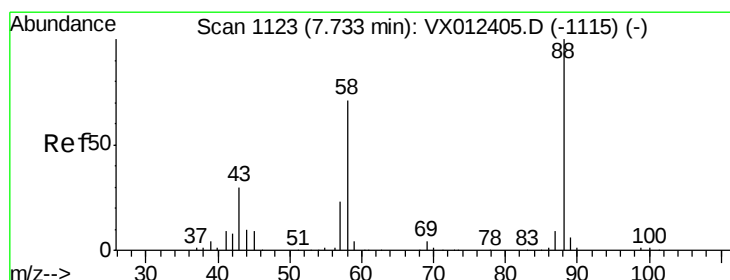
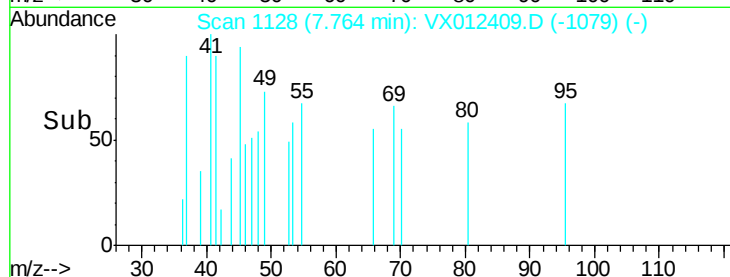
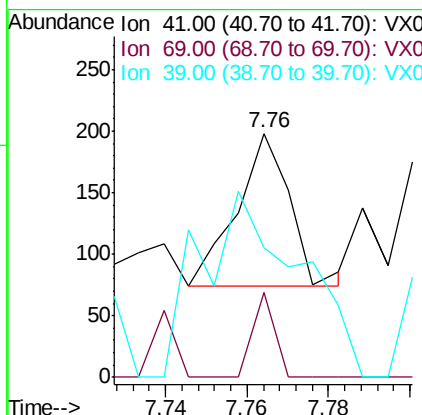
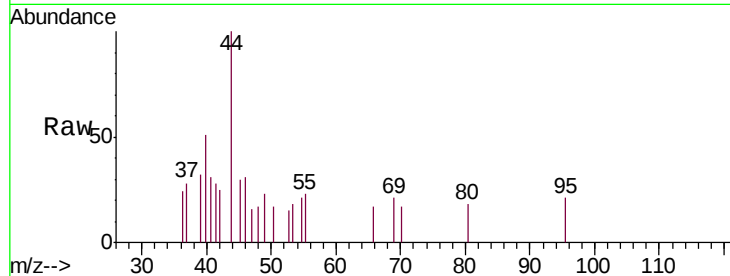




#48
Methyl methacrylate
Concen: 1.490 ug/l
RT: 7.76 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX012409.D
Acq: 16 Sep 2019 16:40

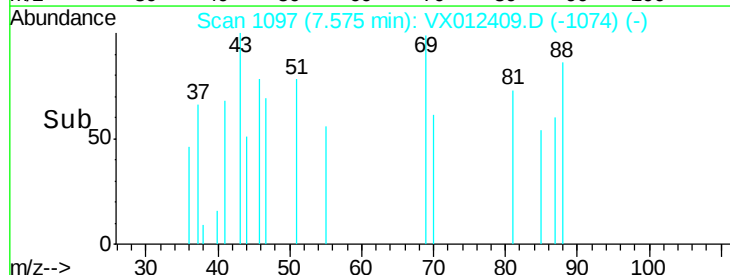
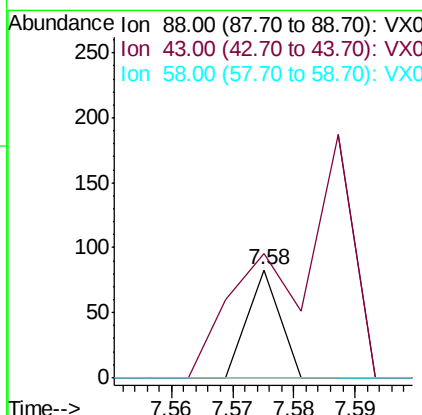
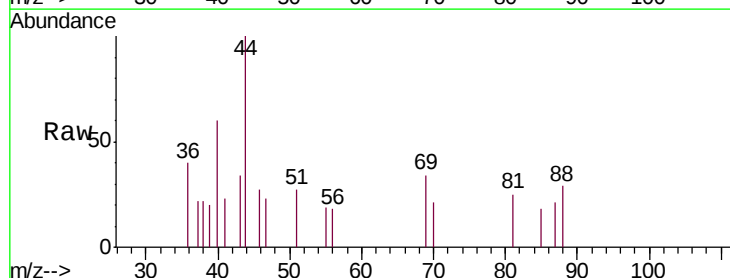
Instrument :
MSVOA_X
ClientSampled :
VX0916WBL01

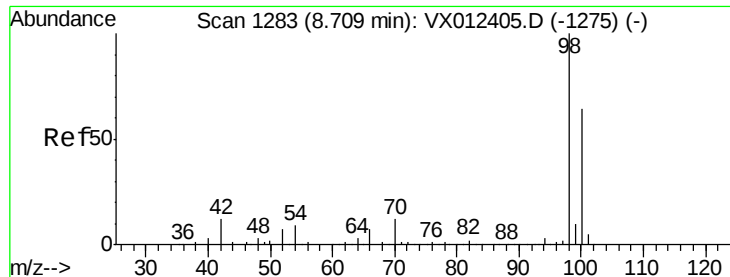
Tgt Ion: 41 Resp: 113
Ion Ratio Lower Upper
41 100
69 22.1 61.6 92.4#
39 223.9 47.6 71.4#



#49
1,4-Dioxane
Concen: 0.479 ug/l
RT: 7.58 min Scan# 1097
Delta R.T. -0.16 min
Lab File: VX012409.D
Acq: 16 Sep 2019 16:40

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 480.0 26.6 39.8#
58 0.0 57.1 85.7#





#50

Toluene-d8

Concen: 52.230 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

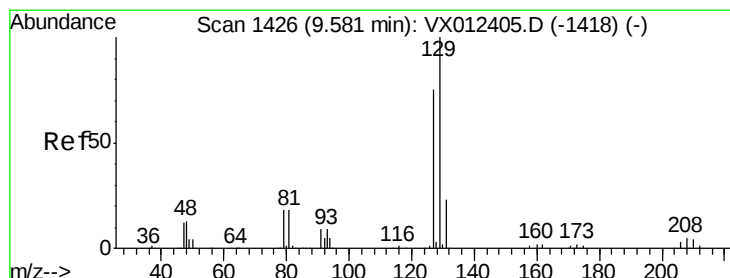
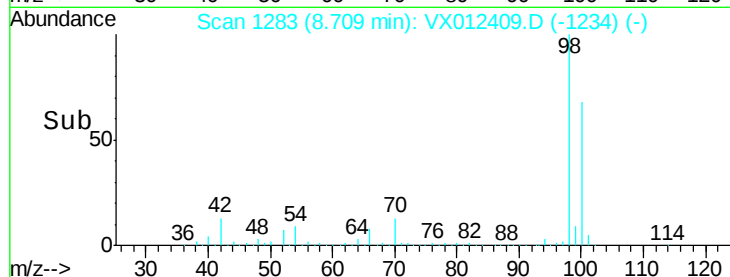
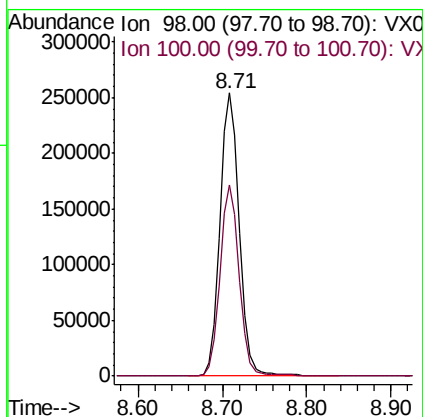
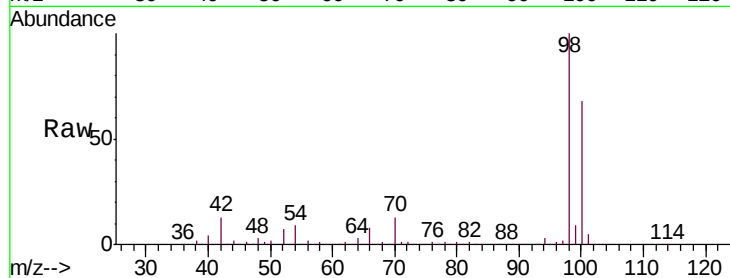
VX0916WBL01

Tgt Ion: 98 Resp: 403638

Ion Ratio Lower Upper

98 100

100 67.2 54.4 81.6



#60

Dibromochloromethane

Concen: 1.760 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.00 min

Lab File: VX012409.D

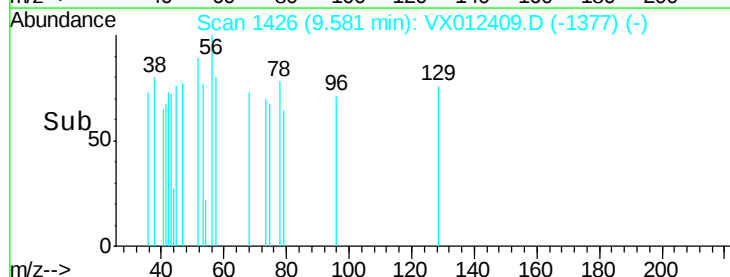
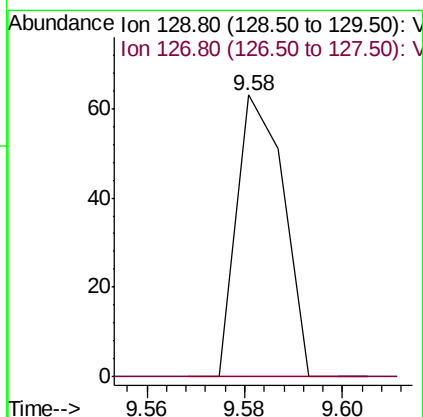
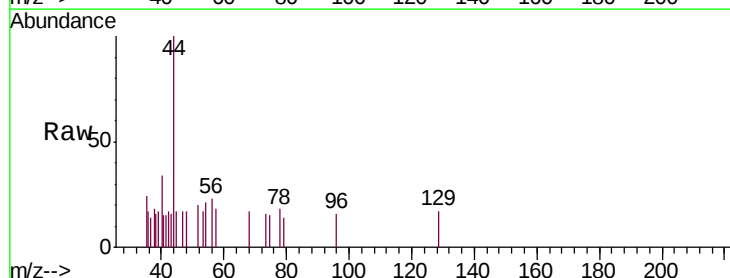
Acq: 16 Sep 2019 16:40

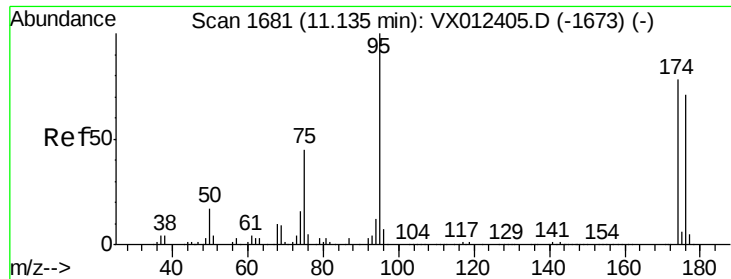
Tgt Ion: 129 Resp: 42

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#





#62

4-Bromofluorobenzene

Concen: 48.635 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBL01

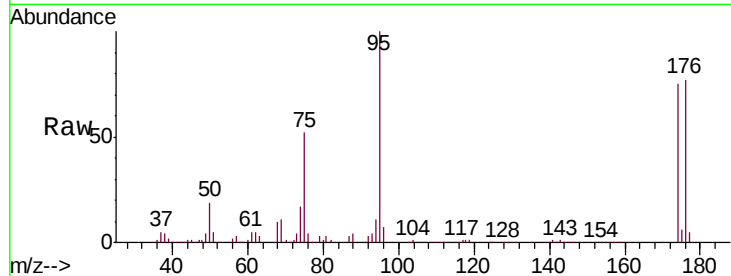
Tgt Ion: 95 Resp: 158129

Ion Ratio Lower Upper

95 100

174 71.4 0.0 146.0

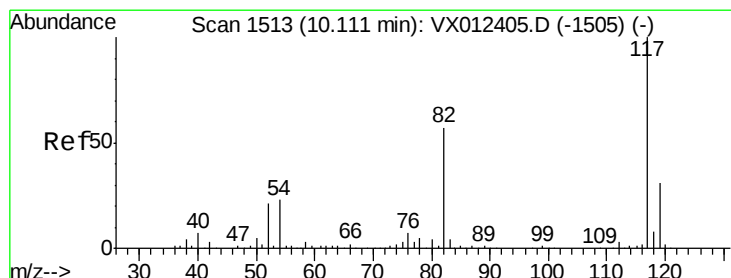
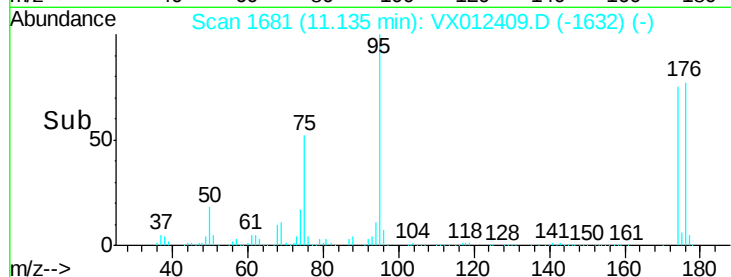
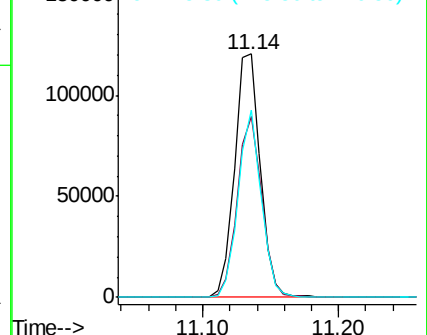
176 69.3 0.0 137.6



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: 50.000 ug/l

RT: 10.11 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

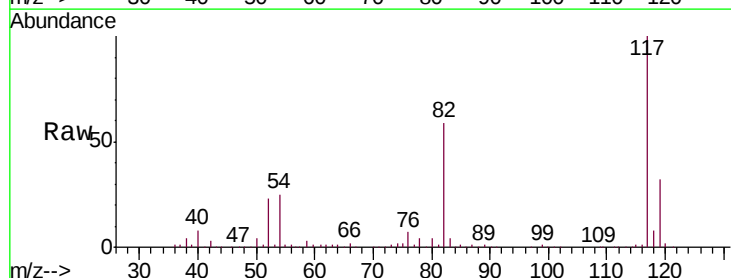
Tgt Ion: 117 Resp: 210024

Ion Ratio Lower Upper

117 100

82 58.7 45.8 68.6

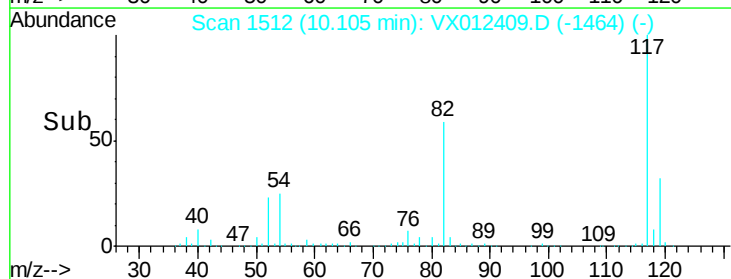
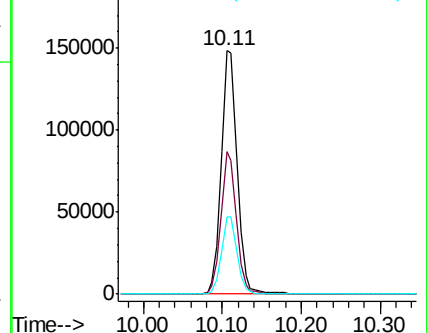
119 31.9 24.9 37.3

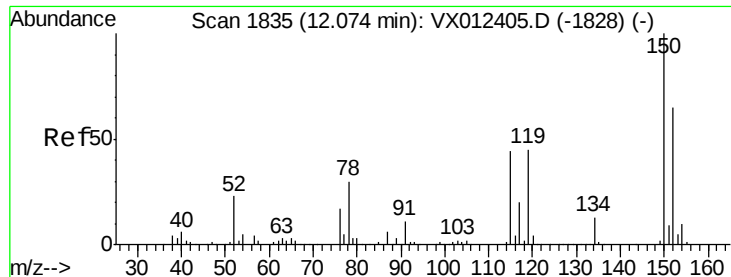


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBL01

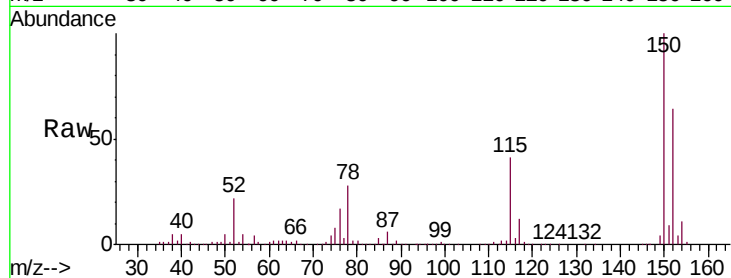
Tgt Ion: 152 Resp: 119239

Ion Ratio Lower Upper

152 100

115 63.5 45.3 135.9

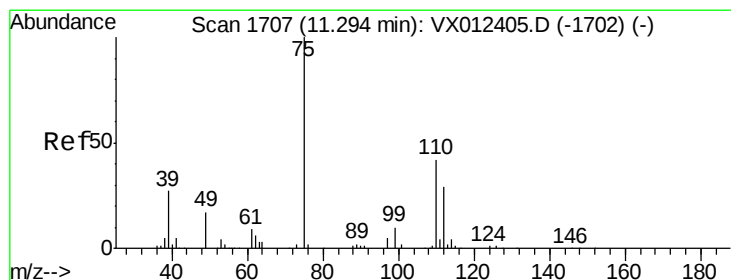
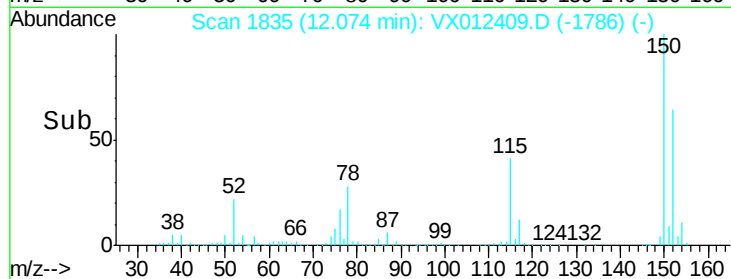
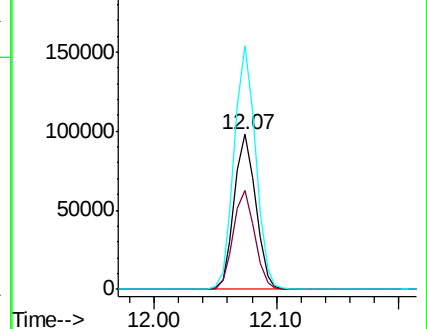
150 156.5 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.508 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012409.D

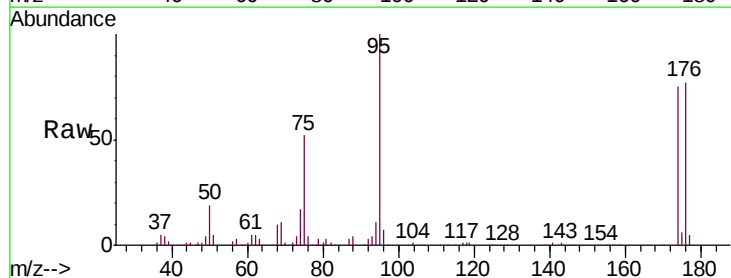
Acq: 16 Sep 2019 16:40

Tgt Ion: 75 Resp: 81707

Ion Ratio Lower Upper

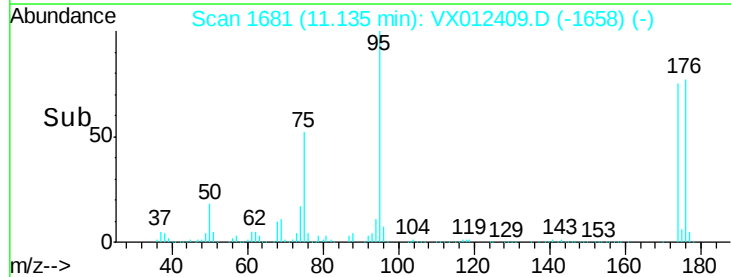
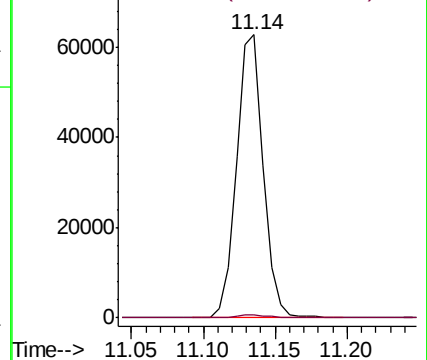
75 100

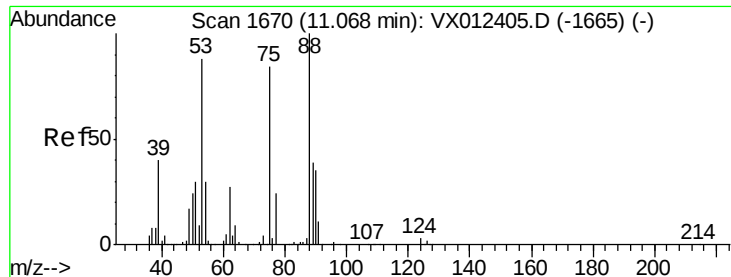
77 1.2 19.4 58.2#



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: 74.830 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBL01

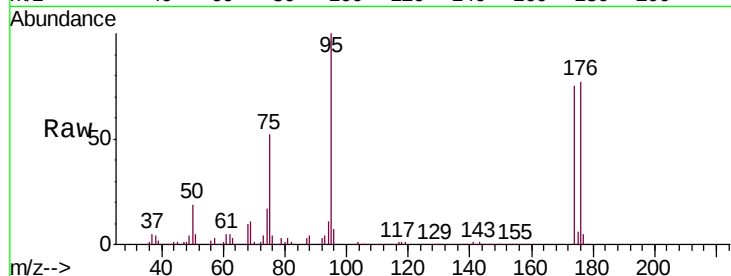
Tgt Ion: 75 Resp: 81707

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

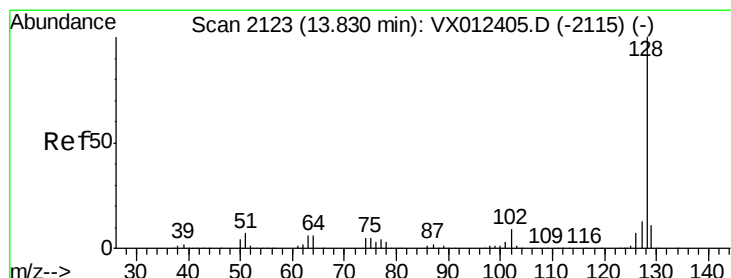
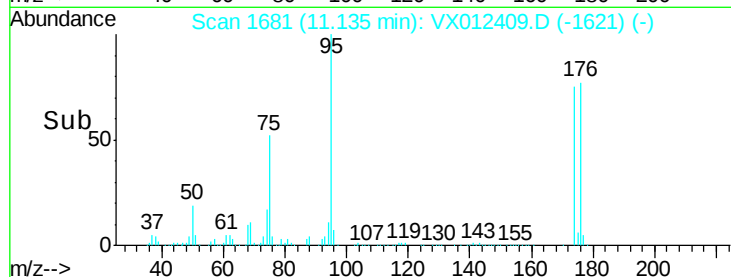
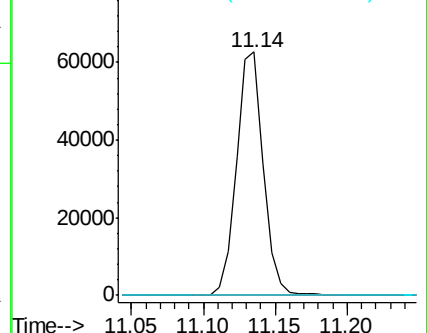
89 0.0 38.8 58.2#



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



#95

Naphthalene

Concen: 0.431 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX012409.D

Acq: 16 Sep 2019 16:40

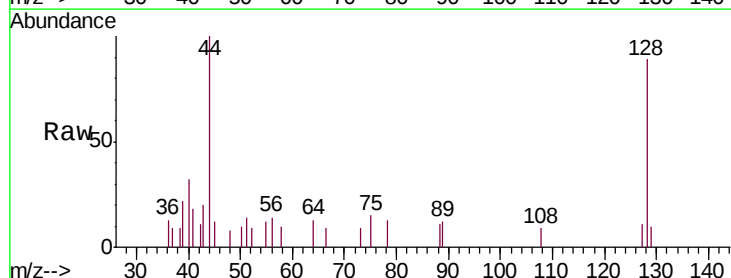
Tgt Ion: 128 Resp: 786

Ion Ratio Lower Upper

128 100

127 5.9 10.2 15.4#

129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

