

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092619\
 Data File : VX012679.D
 Acq On : 26 Sep 2019 17:13
 Operator : JC/SP
 Sample : K5048-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0534

Quant Time: Sep 26 23:35:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	162151	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	285945	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	230613	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	78150	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	121965	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	
35) Dibromofluoromethane	5.49	113	85507	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
50) Toluene-d8	8.71	98	337593	51.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.96%	
62) 4-Bromofluorobenzene	11.14	95	109482	42.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.92%	

Target Compounds

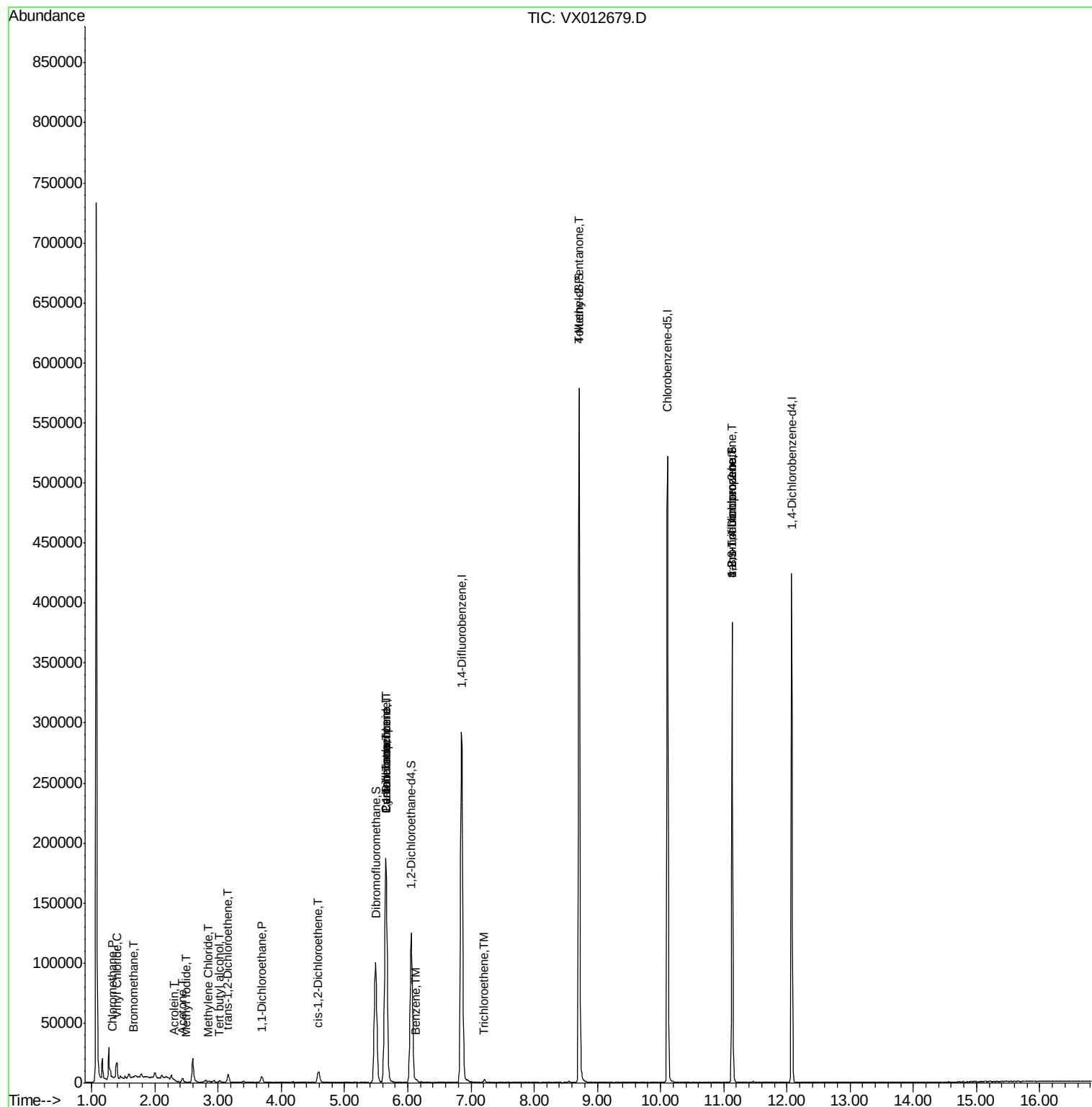
						Qvalue
3) Chloromethane	1.32	50	696	0.332	ug/l	89
4) Vinyl Chloride	1.40	62	3487	1.675	ug/l	90
5) Bromomethane	1.66	94	346	0.423	ug/l #	44
10) Methyl Iodide	2.50	142	23	4.964	ug/l #	35
11) Tert butyl alcohol	3.02	59	1366	2.316	ug/l #	94
13) Acrolein	2.31	56	35	10.335	ug/l #	15
16) Acetone	2.44	43	3773	3.017	ug/l	95
20) Methylene Chloride	2.84	84	450	0.213	ug/l #	71
21) trans-1,2-Dichloroethene	3.16	96	2515	1.302	ug/l	87
24) 1,1-Dichloroethane	3.69	63	5614	1.545	ug/l	97
27) cis-1,2-Dichloroethene	4.58	96	5517	2.462	ug/l	86
31) Cyclohexane	5.65	56	4164	1.267	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14674	5.324	ug/l #	52
38) Carbon Tetrachloride	5.65	117	18404	6.573	ug/l #	15
40) Benzene	6.13	78	1758	0.217	ug/l	99
44) Trichloroethene	7.22	130	1124	0.542	ug/l	85
51) 4-Methyl-2-Pentanone	8.71	43	1725	0.519	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	56387	27.276	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	56387	78.167	ug/l #	8

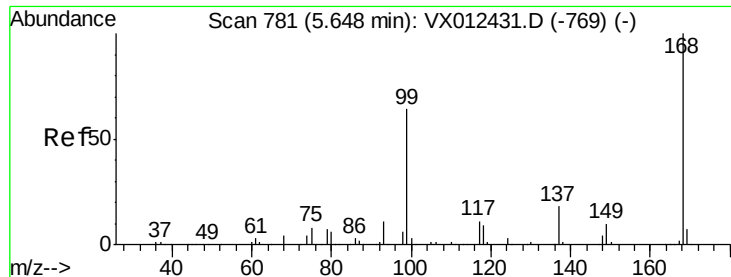
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

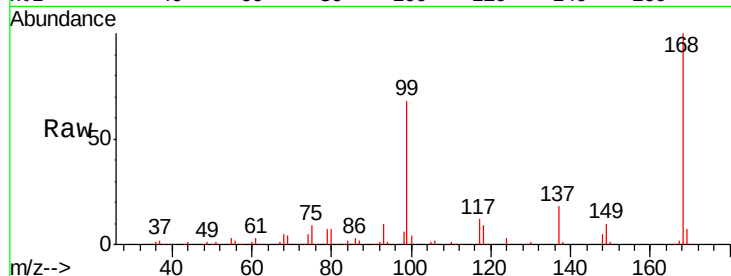
S49-0534

Tgt Ion:168 Resp: 162151

Ion Ratio Lower Upper

168 100

99 68.1 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

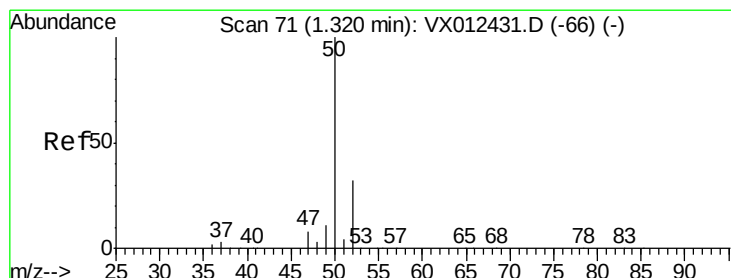
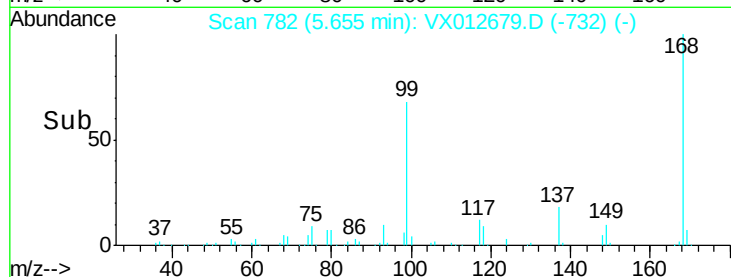
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.332 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012679.D

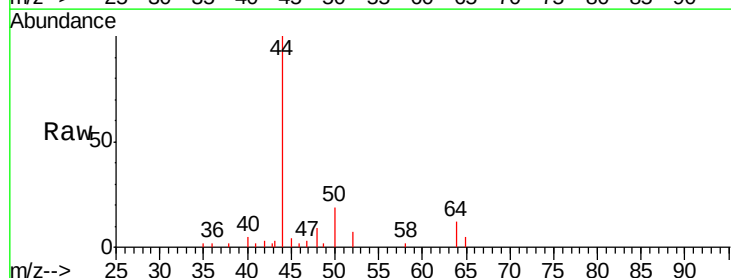
Acq: 26 Sep 2019 17:13

Tgt Ion: 50 Resp: 696

Ion Ratio Lower Upper

50 100

52 38.2 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

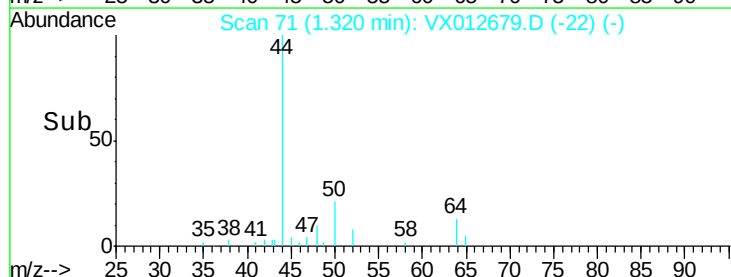
600

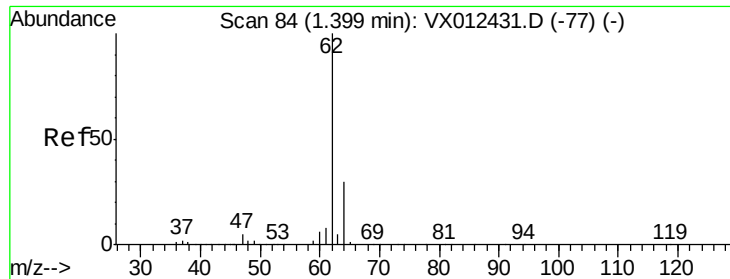
400

200

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 1.675 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

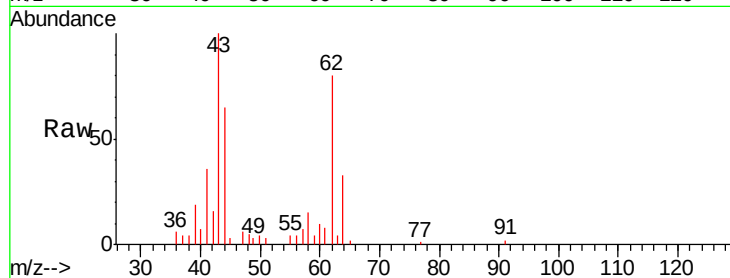
S49-0534

Tgt Ion: 62 Resp: 3487

Ion Ratio Lower Upper

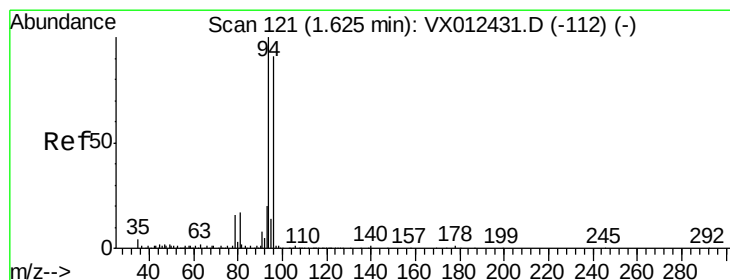
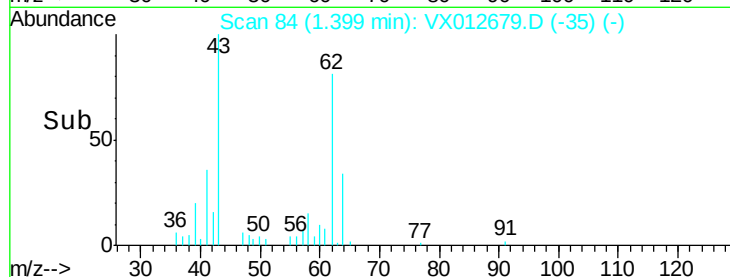
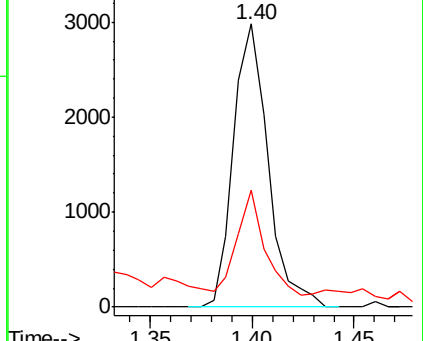
62 100

64 35.9 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.423 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.03 min

Lab File: VX012679.D

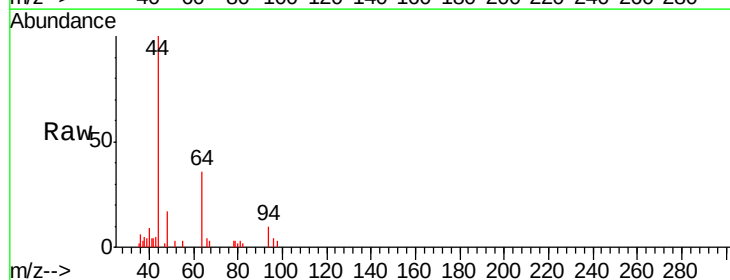
Acq: 26 Sep 2019 17:13

Tgt Ion: 94 Resp: 346

Ion Ratio Lower Upper

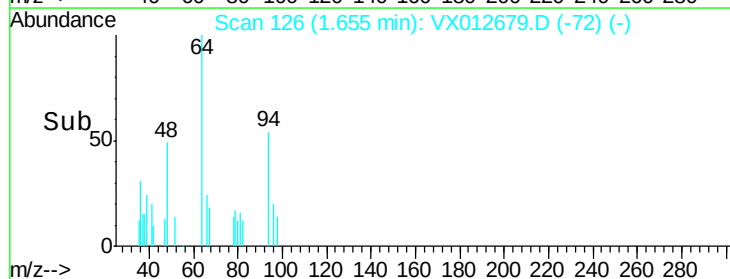
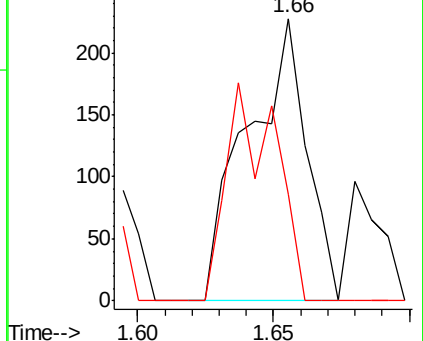
94 100

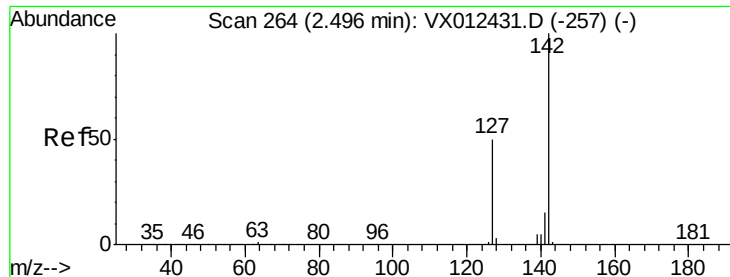
96 37.7 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

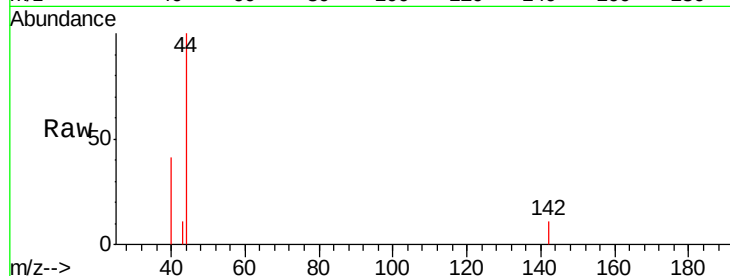




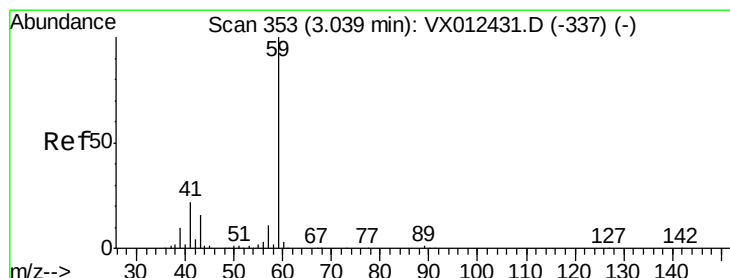
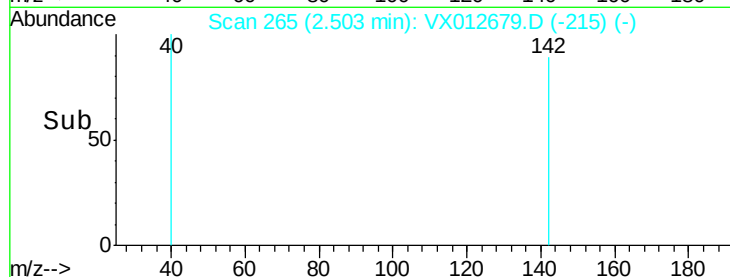
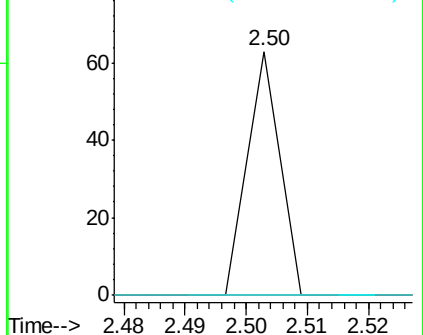
#10
Methyl Iodide
Concen: 4.964 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX012679.D
Acq: 26 Sep 2019 17:13

Instrument :
MSVOA_X
ClientSampleId :
S49-0534

Tgt Ion: 142 Resp: 23
Ion Ratio Lower Upper
142 100
127 0.0 40.8 61.2#
141 0.0 12.1 18.1#

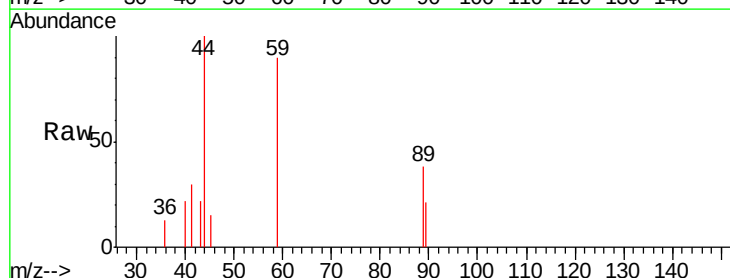


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

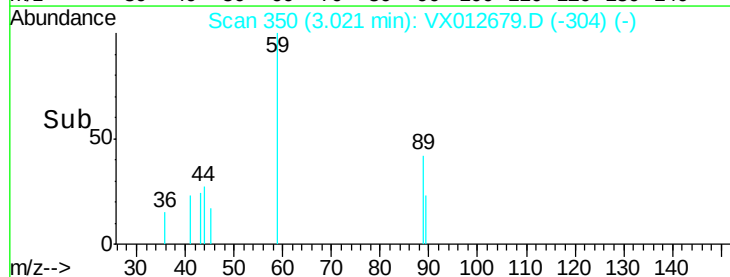
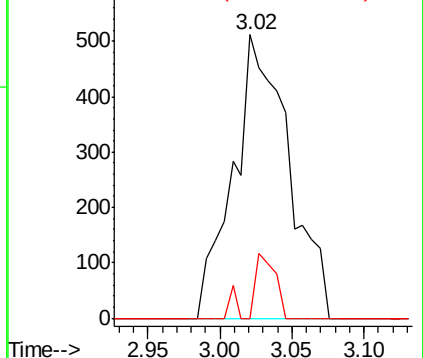


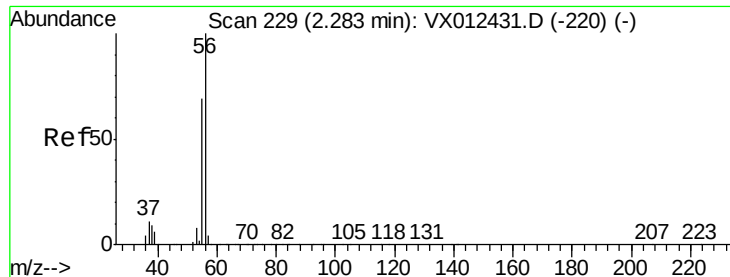
#11
Tert butyl alcohol
Concen: 2.316 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX012679.D
Acq: 26 Sep 2019 17:13

Tgt Ion: 59 Resp: 1366
Ion Ratio Lower Upper
59 100
57 8.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 10.335 ug/l

RT: 2.31 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampled :

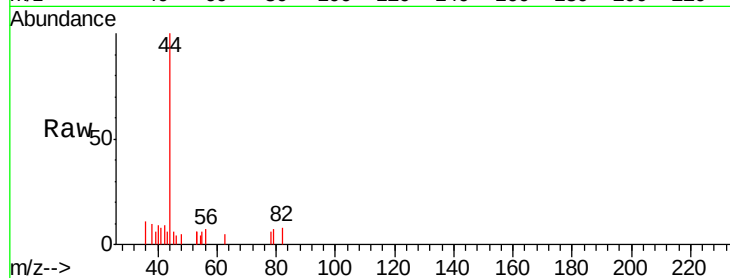
S49-0534

Tgt Ion: 56 Resp: 35

Ion Ratio Lower Upper

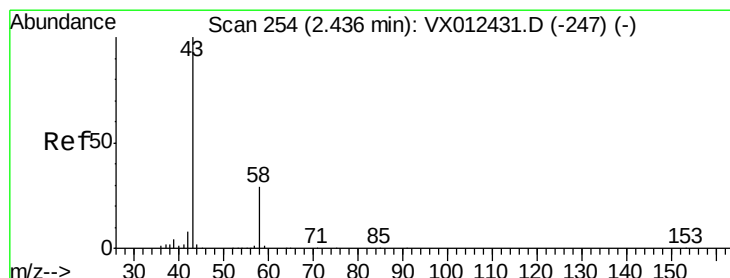
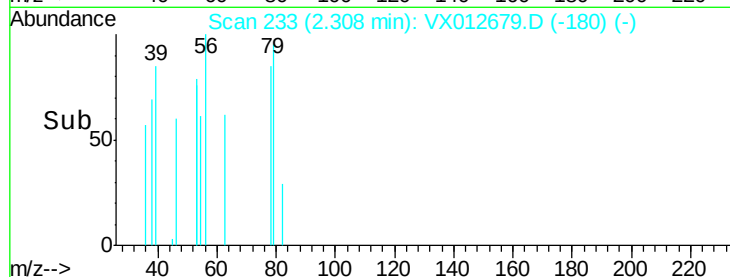
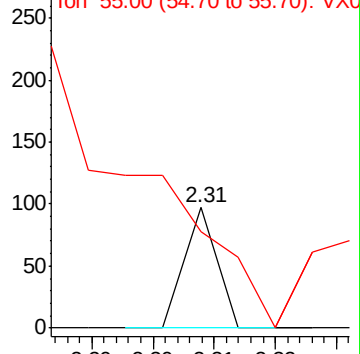
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.017 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012679.D

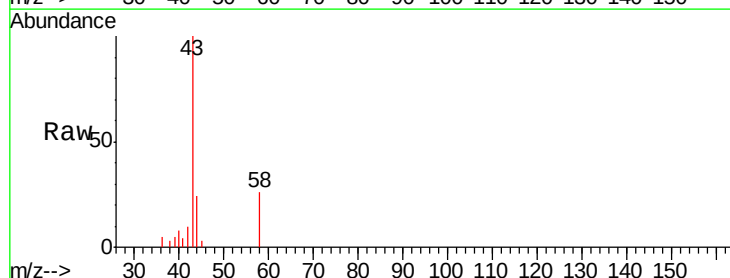
Acq: 26 Sep 2019 17:13

Tgt Ion: 43 Resp: 3773

Ion Ratio Lower Upper

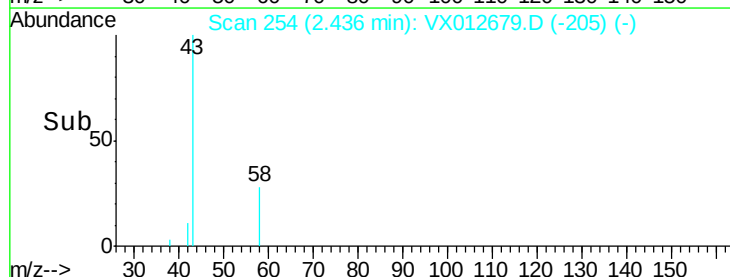
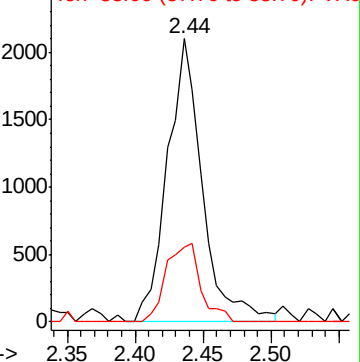
43 100

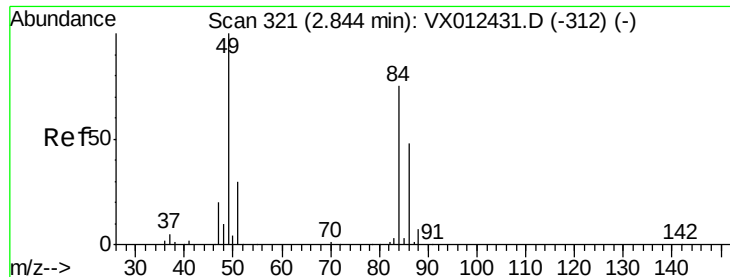
58 26.2 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

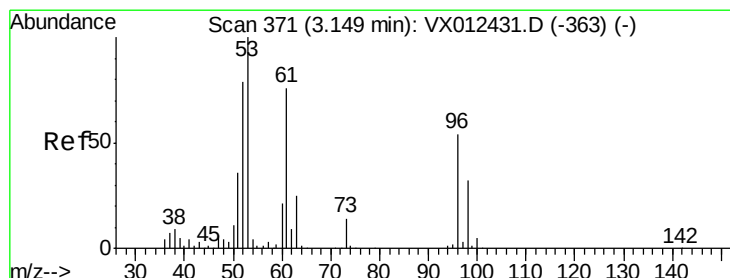
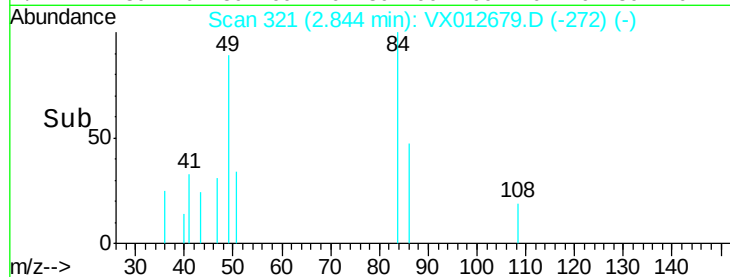
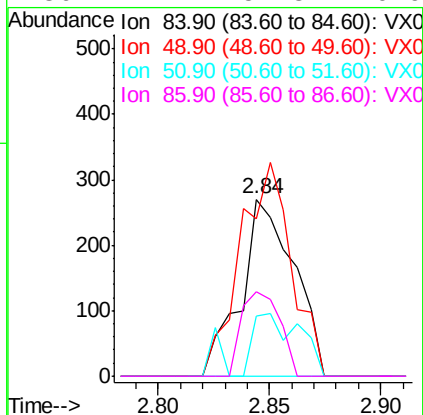
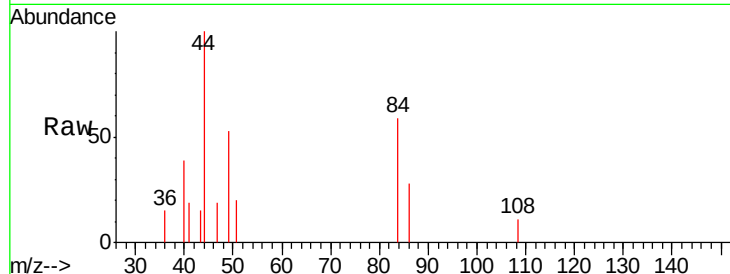




#20
Methylene Chloride
Concen: 0.213 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012679.D
Acq: 26 Sep 2019 17:13

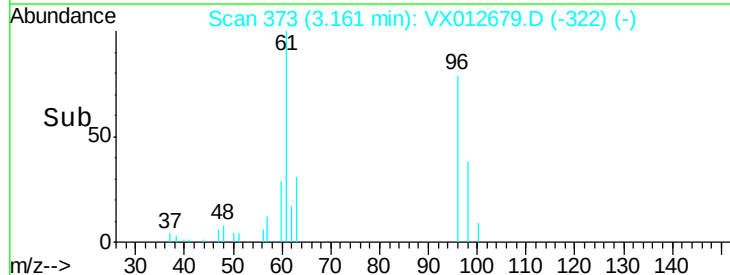
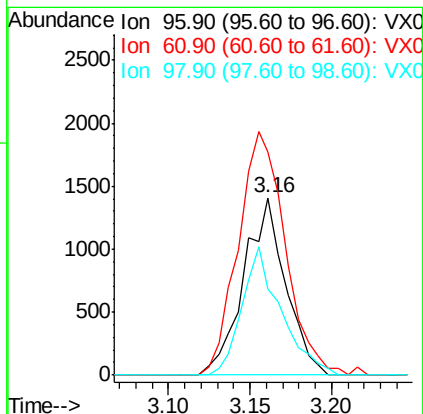
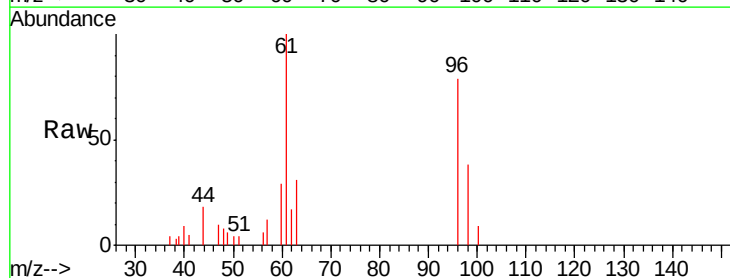
Instrument :
MSVOA_X
ClientSampleId :
S49-0534

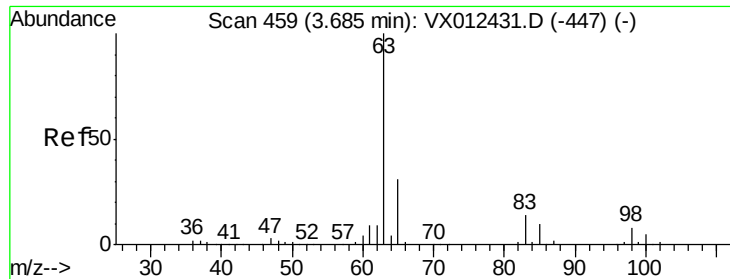
Tgt Ion: 84 Resp: 450
Ion Ratio Lower Upper
84 100
49 88.9 106.8 160.2#
51 33.7 32.3 48.5
86 47.4 51.3 76.9#



#21
trans-1,2-Dichloroethene
Concen: 1.302 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX012679.D
Acq: 26 Sep 2019 17:13

Tgt Ion: 96 Resp: 2515
Ion Ratio Lower Upper
96 100
61 125.9 112.0 168.0
98 48.3 47.8 71.8





#24

1,1-Dichloroethane

Concen: 1.545 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

S49-0534

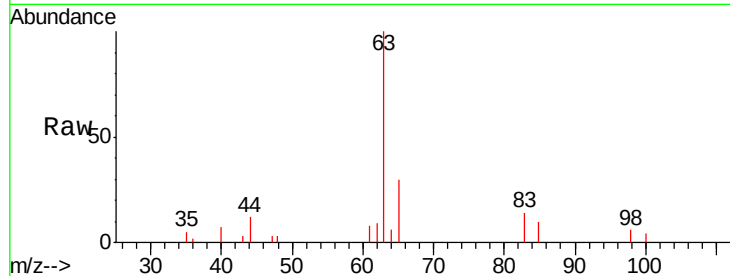
Tgt Ion: 63 Resp: 5614

Ion Ratio Lower Upper

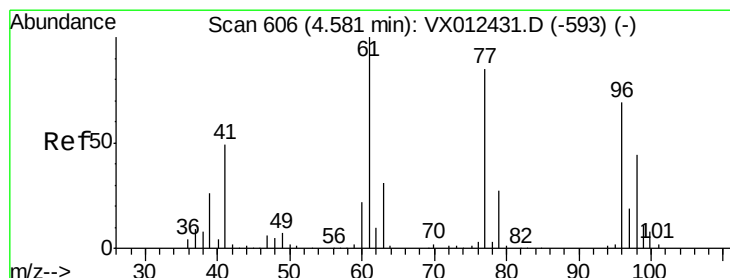
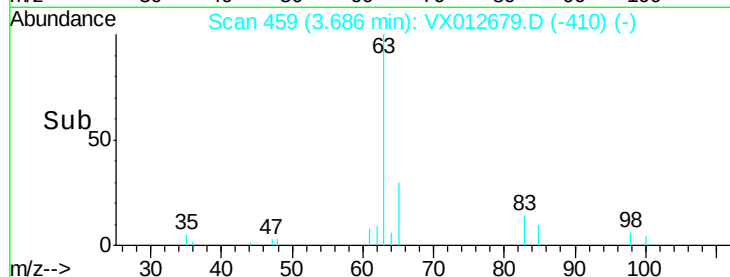
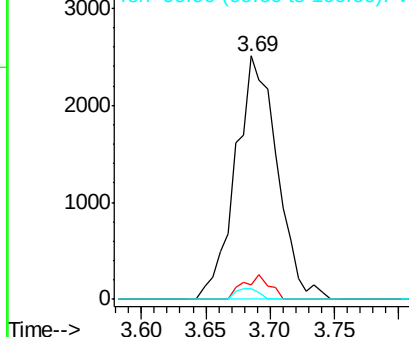
63 100

98 6.1 3.9 11.7

100 4.2 2.3 6.9



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 2.462 ug/l

RT: 4.58 min Scan# 606

Delta R.T. 0.00 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

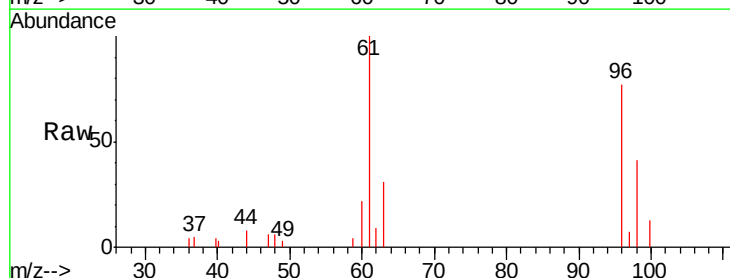
Tgt Ion: 96 Resp: 5517

Ion Ratio Lower Upper

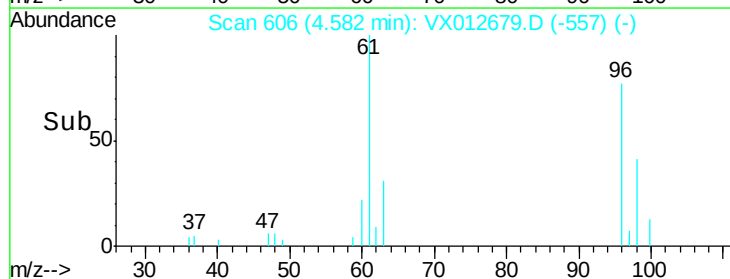
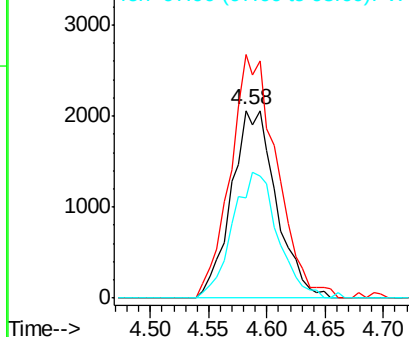
96 100

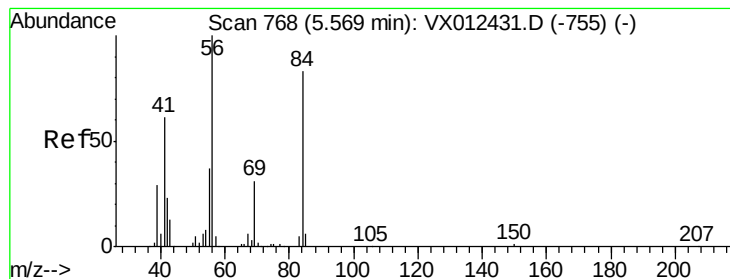
61 134.3 0.0 319.4

98 67.4 0.0 130.6



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





#31

Cyclohexane

Concen: 1.267 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampled :

S49-0534

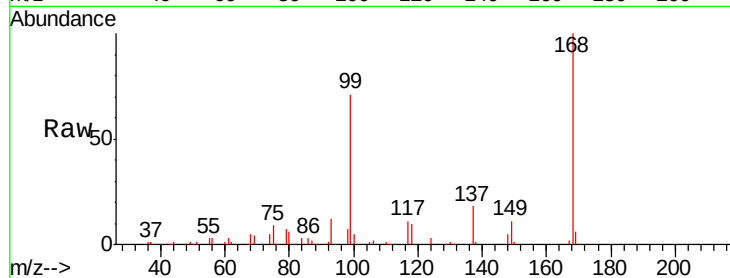
Tgt Ion: 56 Resp: 4164

Ion Ratio Lower Upper

56 100

69 165.4 25.0 37.6#

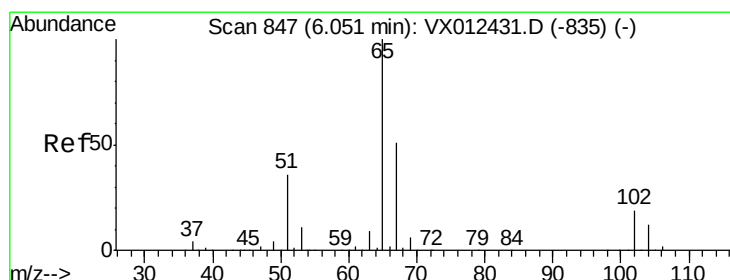
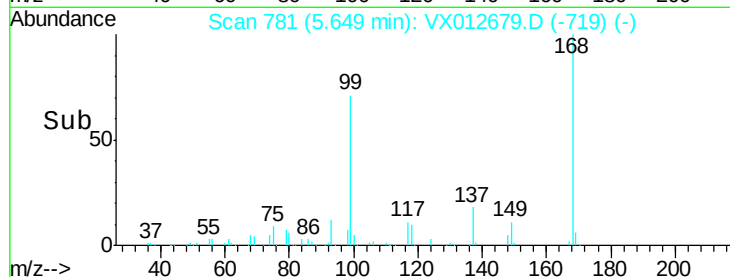
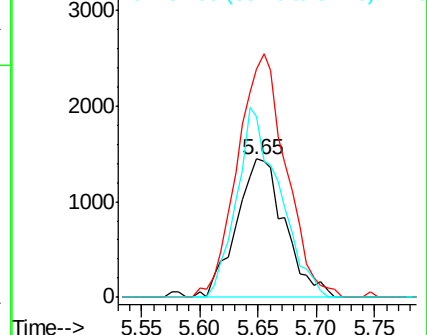
84 131.0 66.4 99.6#



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: 51.653 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012679.D

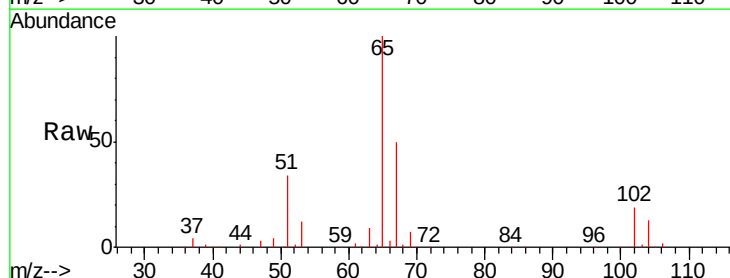
Acq: 26 Sep 2019 17:13

Tgt Ion: 65 Resp: 121965

Ion Ratio Lower Upper

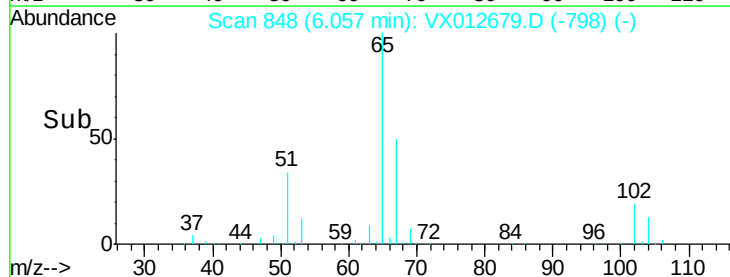
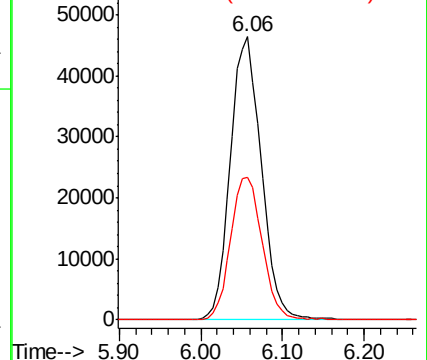
65 100

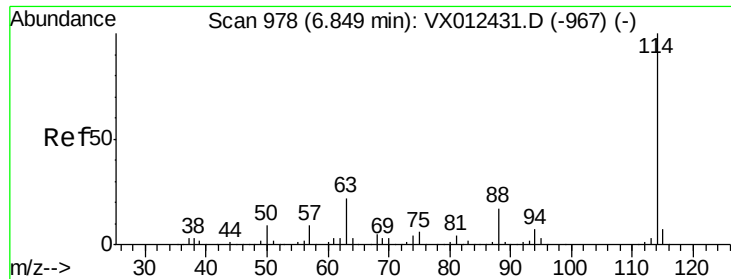
67 51.4 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

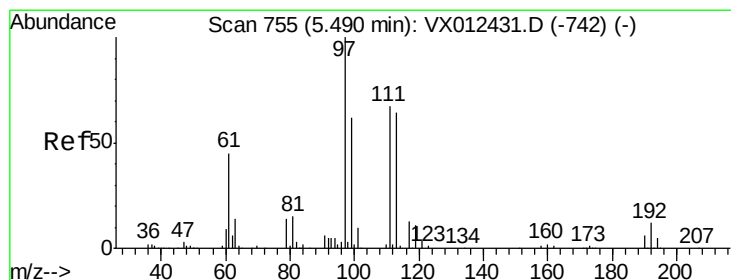
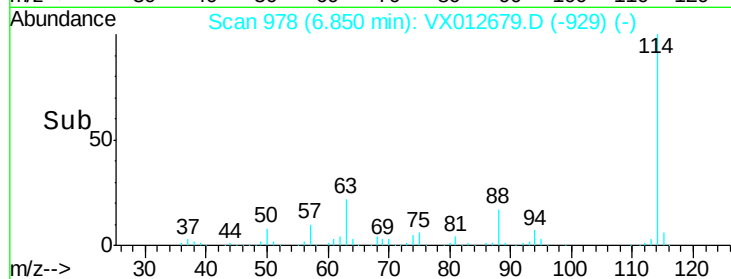
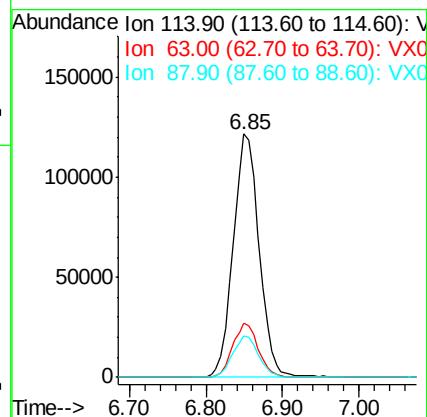
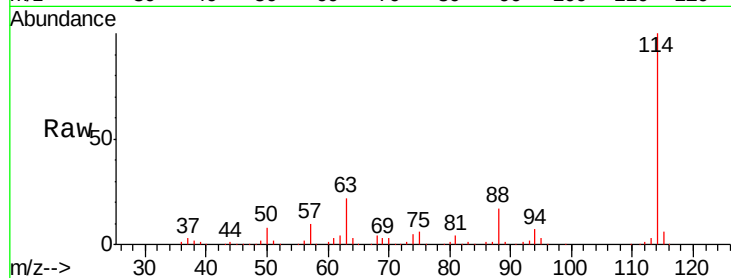




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012679.D
 Acq: 26 Sep 2019 17:13

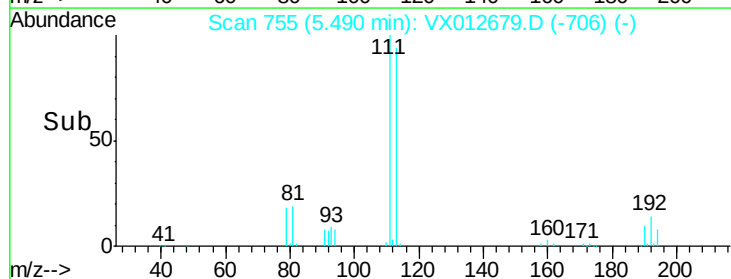
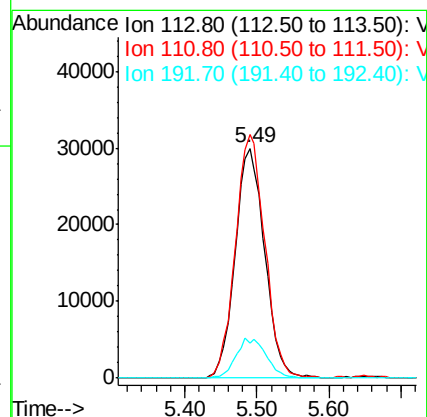
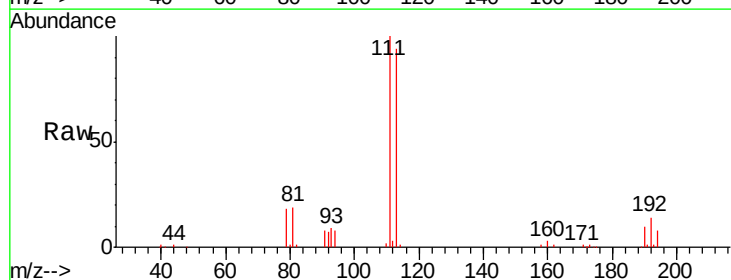
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0534

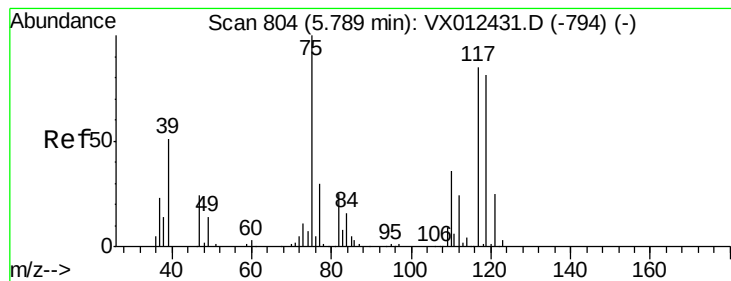
Tgt Ion:114 Resp: 285945
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.2
 88 16.9 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 50.212 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012679.D
 Acq: 26 Sep 2019 17:13

Tgt Ion:113 Resp: 85507
 Ion Ratio Lower Upper
 113 100
 111 105.4 83.4 125.2
 192 17.7 14.4 21.6





#36

1,1-Dichloropropene

Concen: 5.324 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

S49-0534

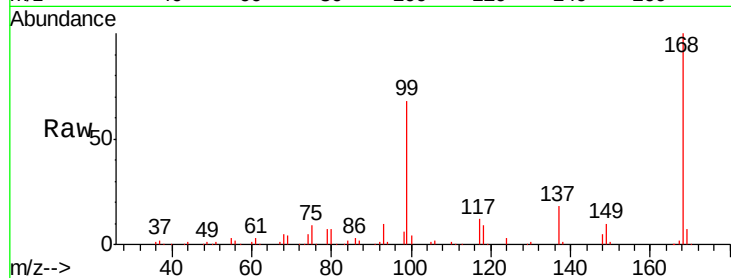
Tgt Ion: 75 Resp: 14674

Ion Ratio Lower Upper

75 100

110 10.2 16.7 50.0#

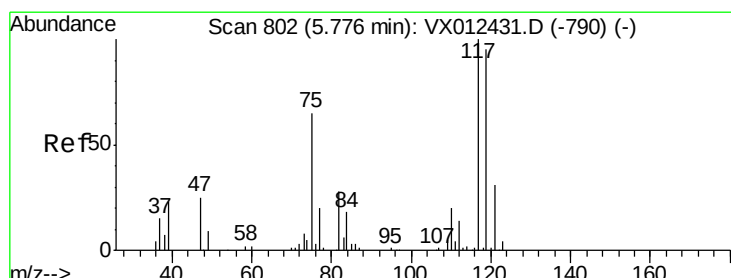
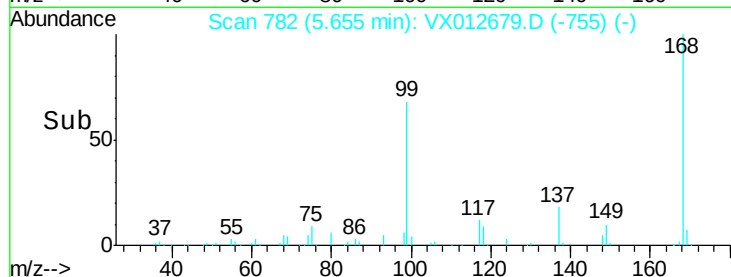
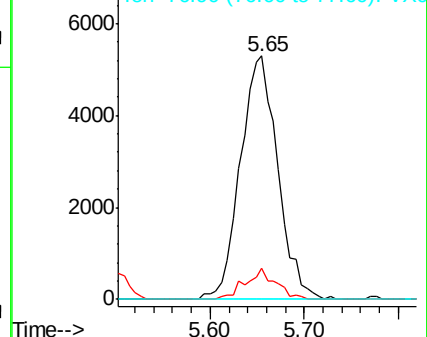
77 0.0 24.2 36.2#



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: 6.573 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

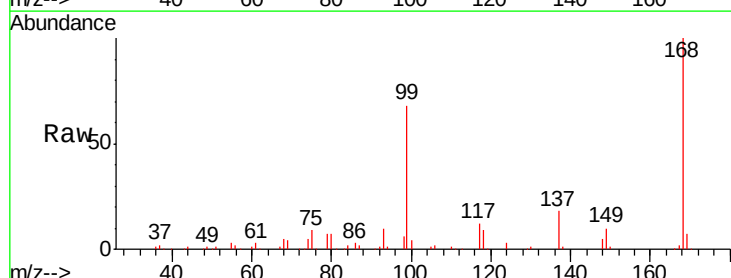
Tgt Ion: 117 Resp: 18404

Ion Ratio Lower Upper

117 100

119 3.7 75.7 113.5#

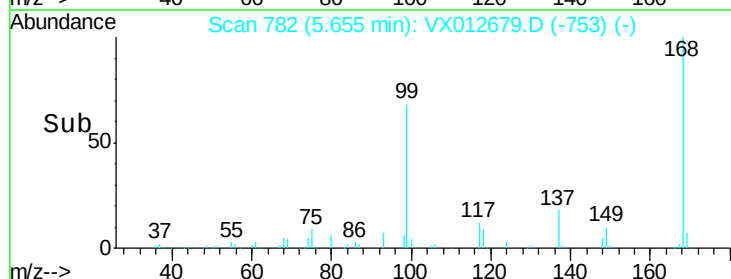
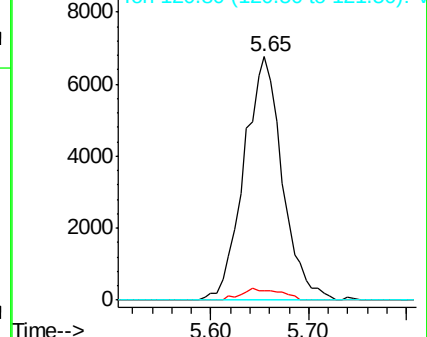
121 0.0 24.2 36.4#

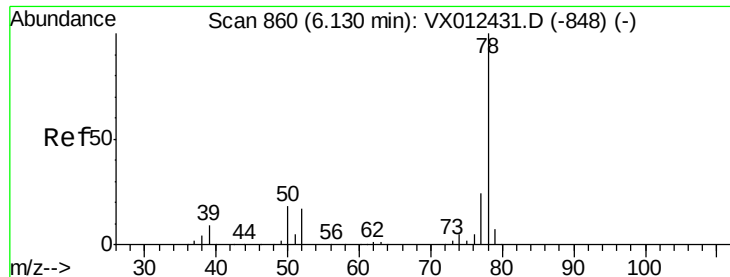


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.217 ug/l

RT: 6.13 min Scan# 860

Delta R.T. 0.00 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampled :

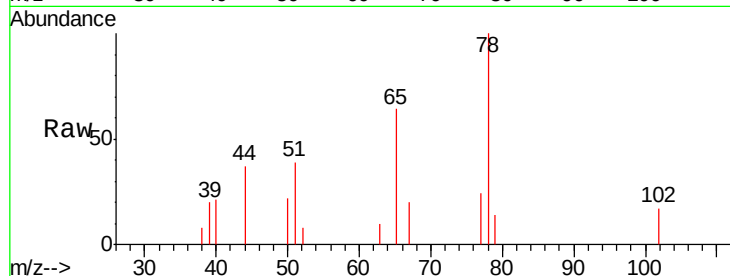
S49-0534

Tgt Ion: 78 Resp: 1758

Ion Ratio Lower Upper

78 100

77 24.3 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.13

800

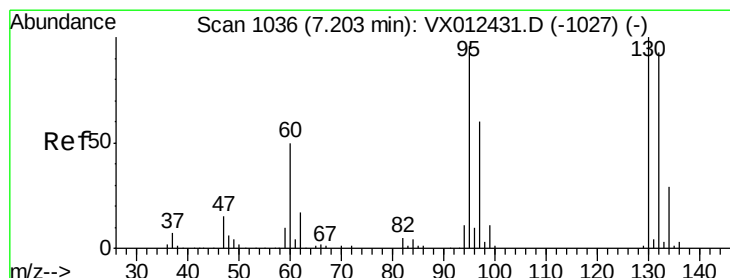
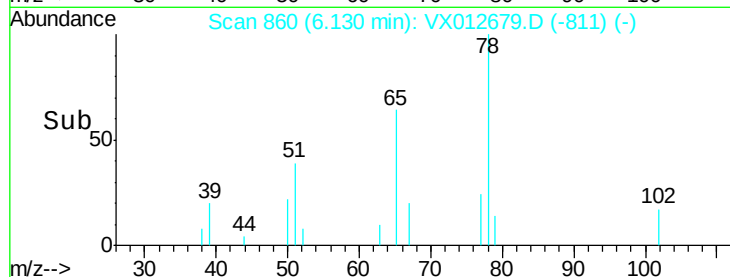
600

400

200

0

Time-->



#44

Trichloroethene

Concen: 0.542 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX012679.D

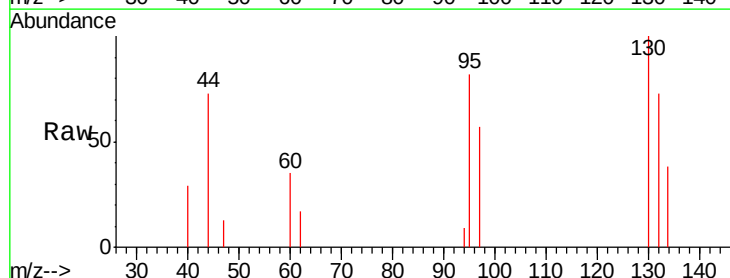
Acq: 26 Sep 2019 17:13

Tgt Ion: 130 Resp: 1124

Ion Ratio Lower Upper

130 100

95 81.7 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

600

500

400

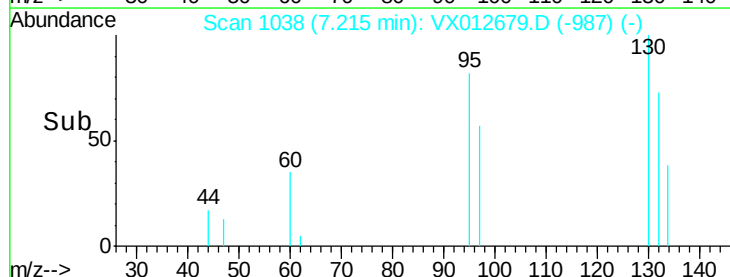
300

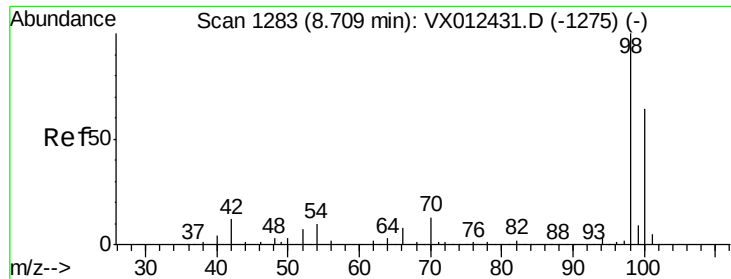
200

100

0

Time-->

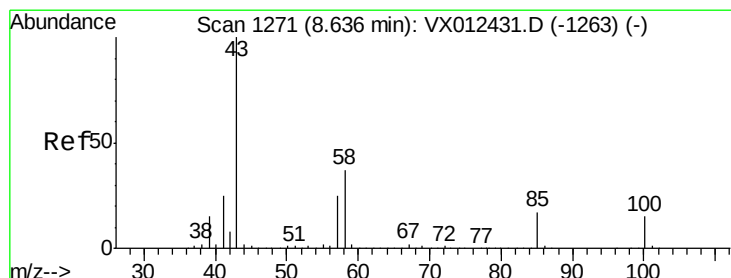
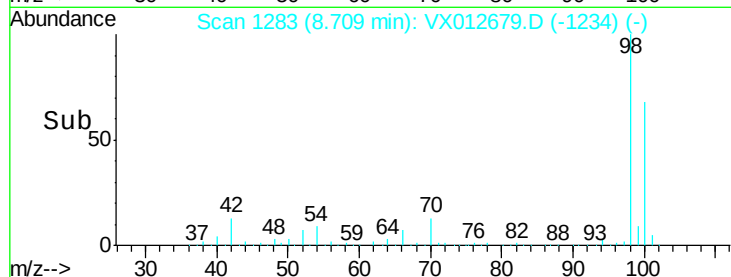
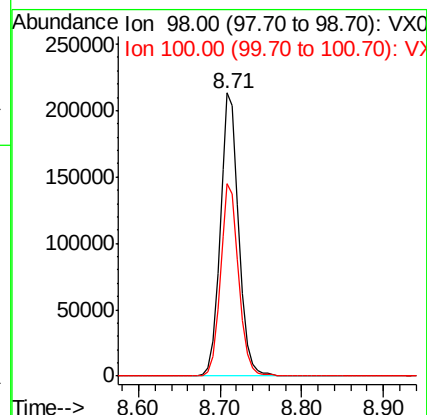
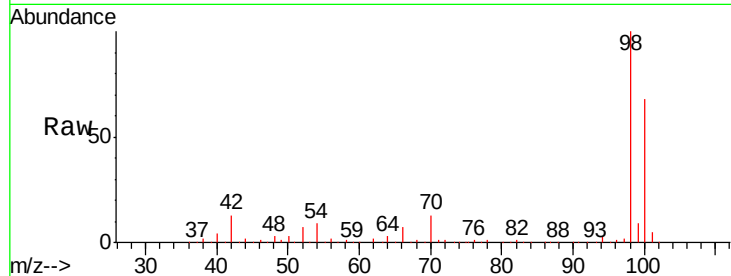




#50
Toluene-d8
Concen: 51.477 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012679.D
Acq: 26 Sep 2019 17:13

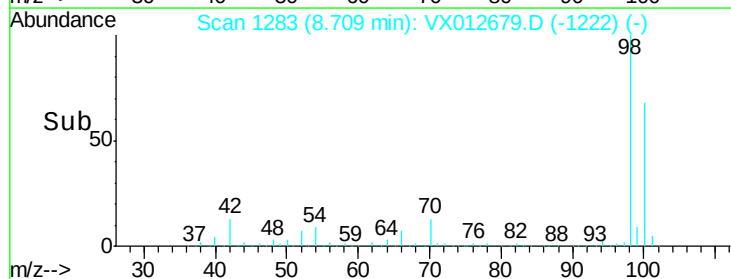
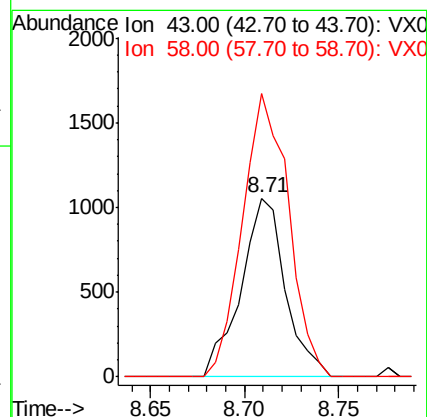
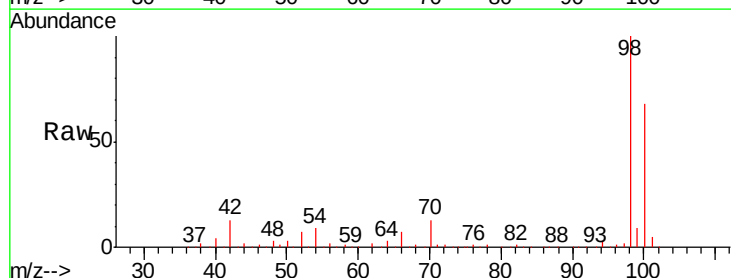
Instrument :
MSVOA_X
ClientSampleId :
S49-0534

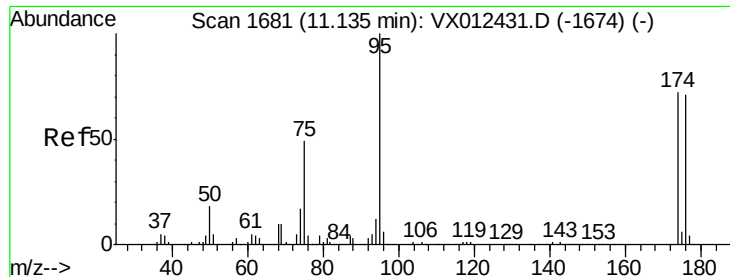
Tgt Ion: 98 Resp: 337593
Ion Ratio Lower Upper
98 100
100 67.2 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.519 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012679.D
Acq: 26 Sep 2019 17:13

Tgt Ion: 43 Resp: 1725
Ion Ratio Lower Upper
43 100
58 163.8 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 42.457 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampled :

S49-0534

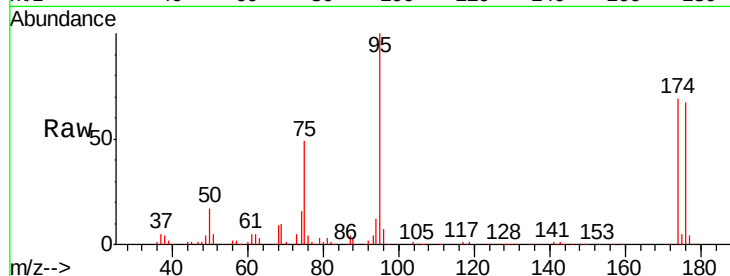
Tgt Ion: 95 Resp: 109482

Ion Ratio Lower Upper

95 100

174 67.5 0.0 140.0

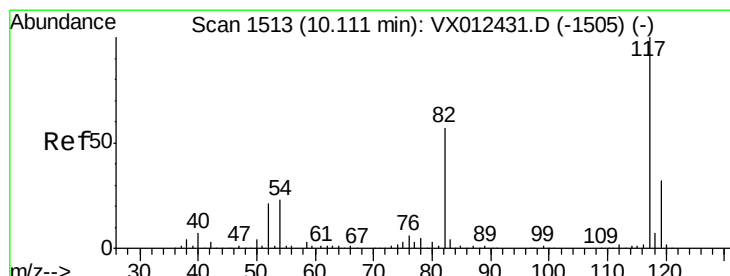
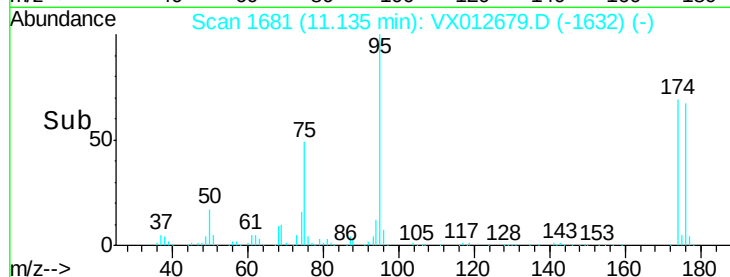
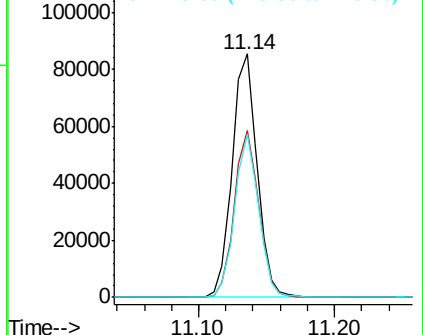
176 64.6 0.0 135.4



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# 1513

Delta R.T. 0.00 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

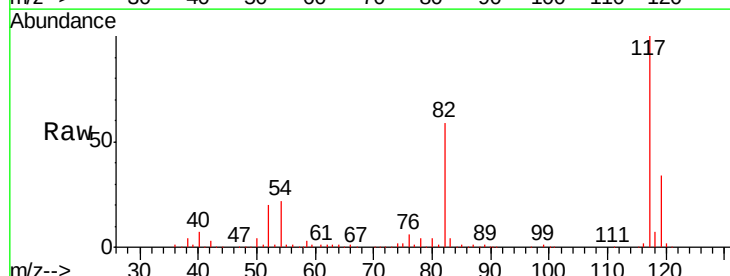
Tgt Ion: 117 Resp: 230613

Ion Ratio Lower Upper

117 100

82 59.0 45.9 68.9

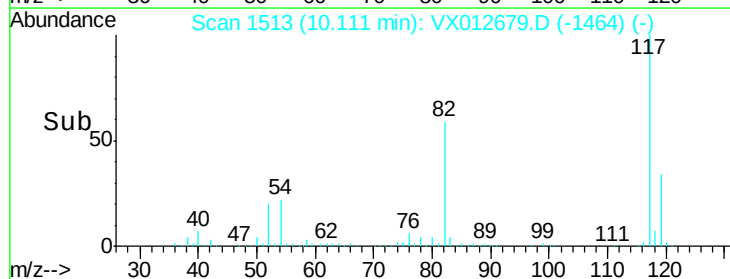
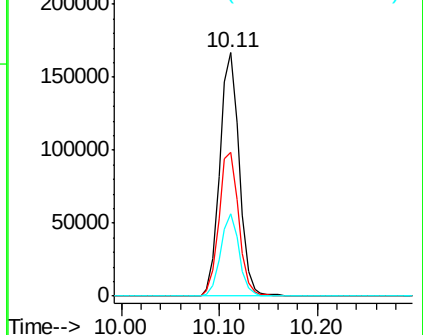
119 33.7 25.3 37.9

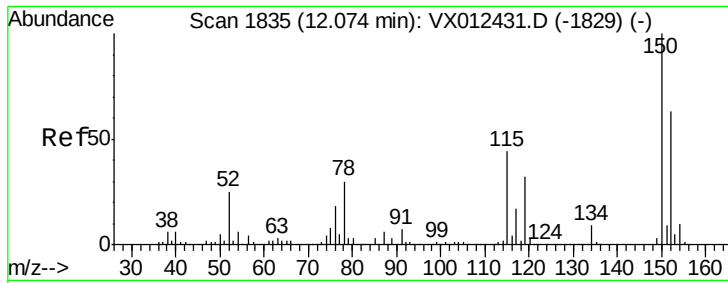


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

S49-0534

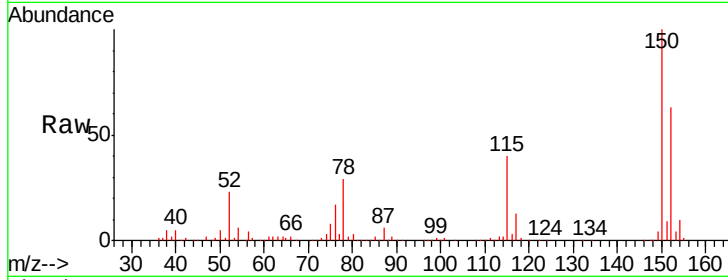
Tgt Ion:152 Resp: 78150

Ion Ratio Lower Upper

152 100

115 66.4 44.1 132.3

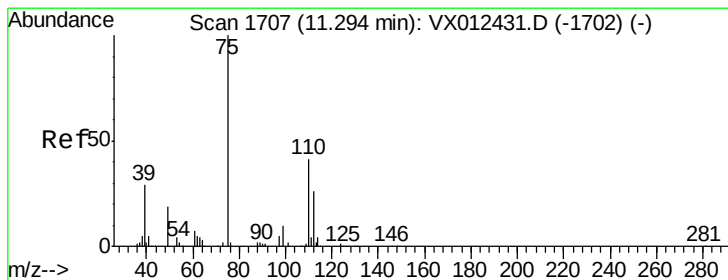
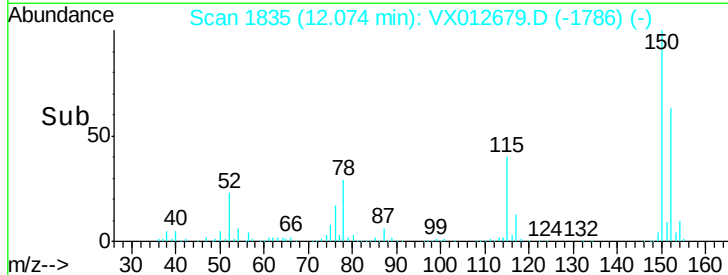
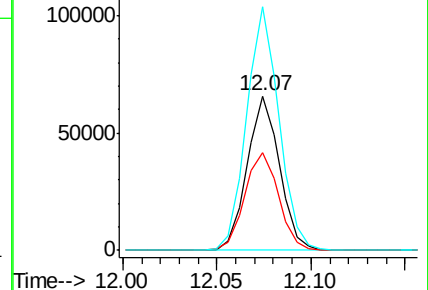
150 158.4 0.0 343.8



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: 27.276 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012679.D

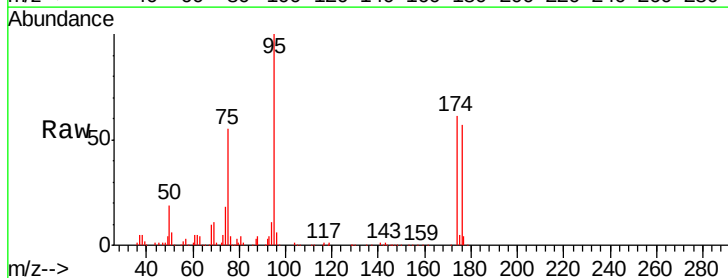
Acq: 26 Sep 2019 17:13

Tgt Ion: 75 Resp: 56387

Ion Ratio Lower Upper

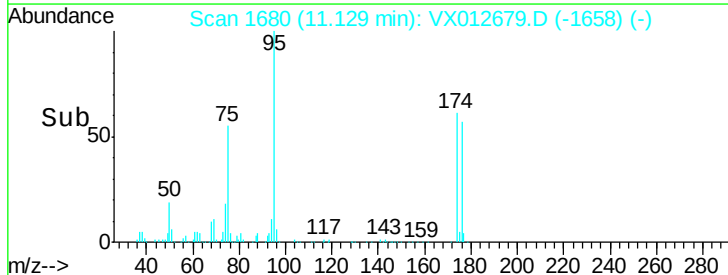
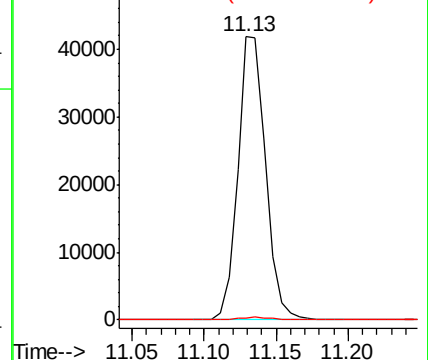
75 100

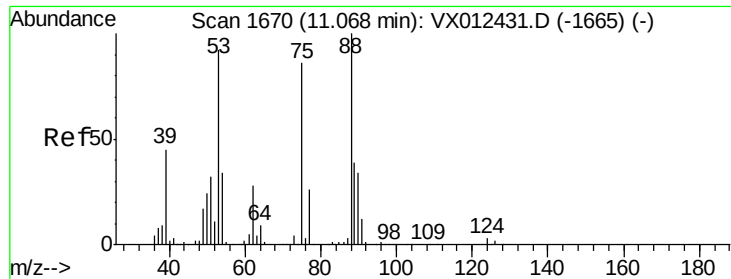
77 1.1 19.7 59.0#



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: 78.167 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012679.D

Acq: 26 Sep 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

S49-0534

Tgt Ion: 75 Resp: 56387

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

