

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092419\
 Data File : VX012633.D
 Acq On : 24 Sep 2019 15:20
 Operator : JC/SP
 Sample : K5013-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0545

Quant Time: Sep 25 04:37:06 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	165694	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	286910	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	237580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	84897	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	120568	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
35) Dibromofluoromethane	5.49	113	86527	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
50) Toluene-d8	8.71	98	334730	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	11.14	95	108818	42.06	ug/l	0.00
Spiked Amount			Recovery	=	84.12%	

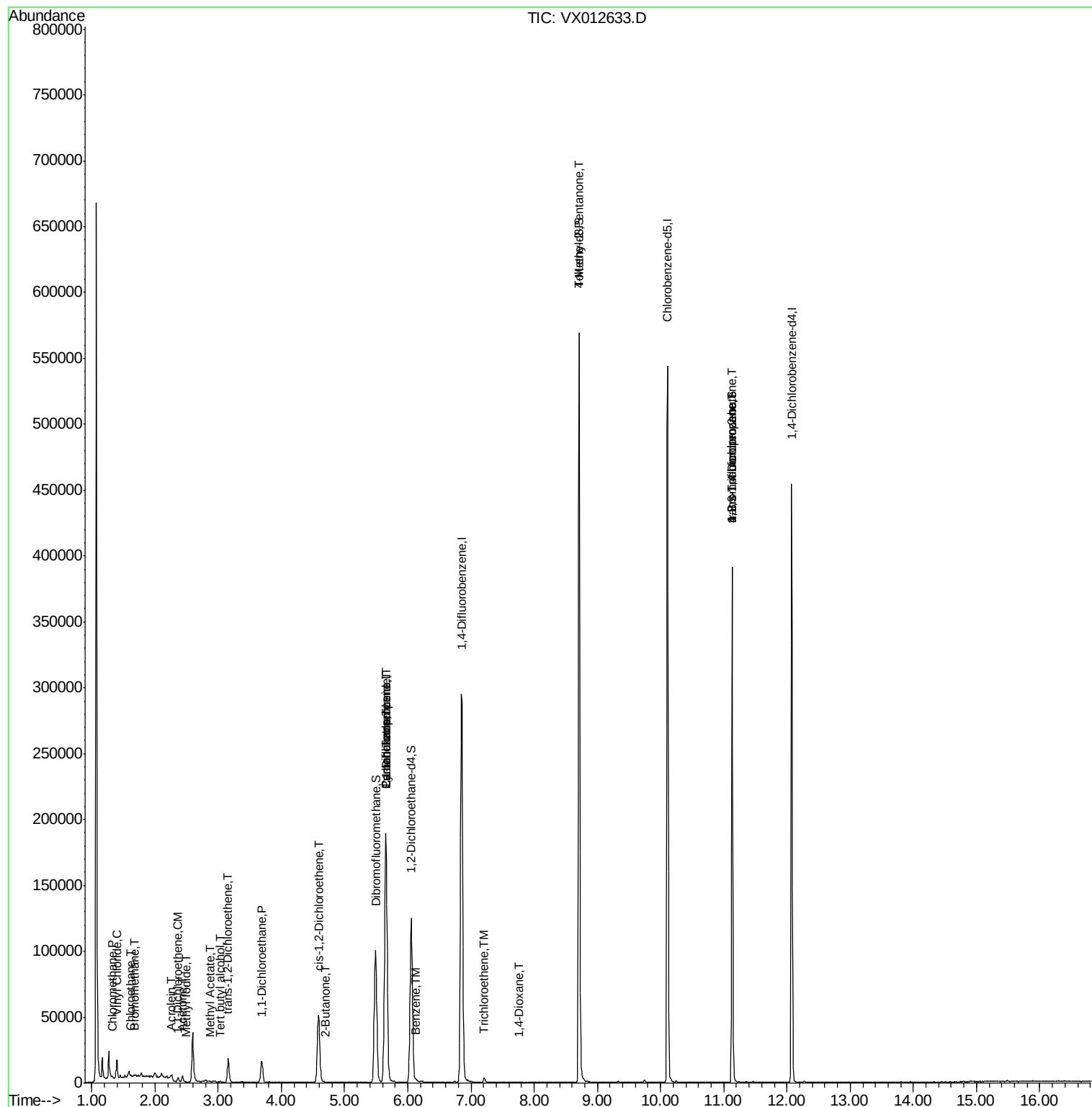
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	576	0.269	ug/l	94
4) Vinyl Chloride	1.40	62	4051	1.904	ug/l	100
5) Bromomethane	1.66	94	507	0.606	ug/l #	64
6) Chloroethane	1.62	64	2949	2.056	ug/l #	57
10) Methyl Iodide	2.50	142	172	5.034	ug/l #	65
11) Tert butyl alcohol	3.03	59	531	0.881	ug/l #	87
12) 1,1-Dichloroethene	2.36	96	1122	0.630	ug/l	88
13) Acrolein	2.26	56	166	10.707	ug/l #	1
16) Acetone	2.44	43	4925	3.854	ug/l	96
18) Methyl Acetate	2.87	43	630	0.209	ug/l #	54
21) trans-1,2-Dichloroethene	3.16	96	7087	3.591	ug/l	87
24) 1,1-Dichloroethane	3.69	63	17533	4.723	ug/l	95
25) 2-Butanone	4.69	43	423	0.231	ug/l #	51
27) cis-1,2-Dichloroethene	4.59	96	31012	13.542	ug/l	86
31) Cyclohexane	5.65	56	4605	1.371	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14703	5.317	ug/l #	47
38) Carbon Tetrachloride	5.65	117	18437	6.563	ug/l #	18
40) Benzene	6.14	78	1849	0.227	ug/l #	89
44) Trichloroethene	7.22	130	1365	0.656	ug/l	97
49) 1,4-Dioxane	7.76	88	150	2.551	ug/l #	76
51) 4-Methyl-2-Pentanone	8.71	43	1541	0.462	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	56355	25.094	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	56355	71.914	ug/l #	8

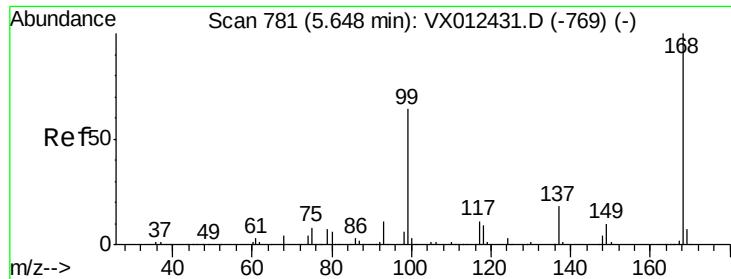
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX092419\
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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

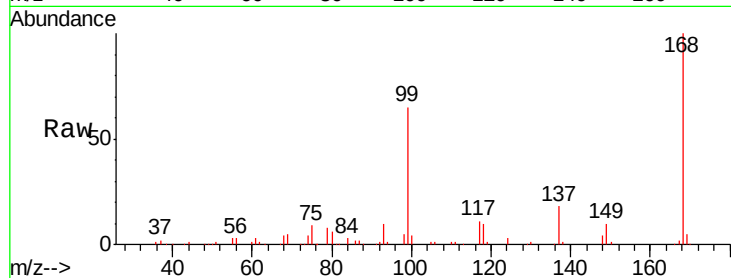
S49-0545

Tgt Ion:168 Resp: 165694

Ion Ratio Lower Upper

168 100

99 64.7 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

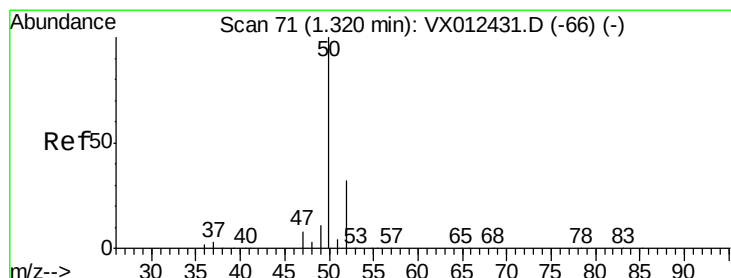
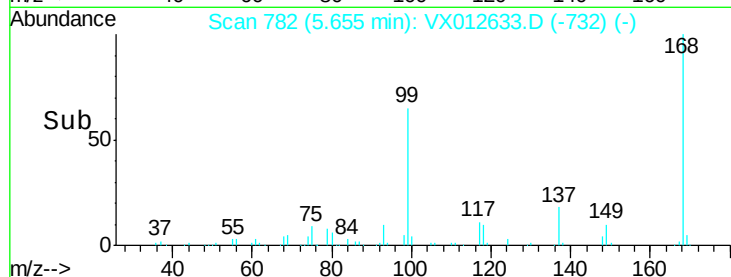
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.269 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012633.D

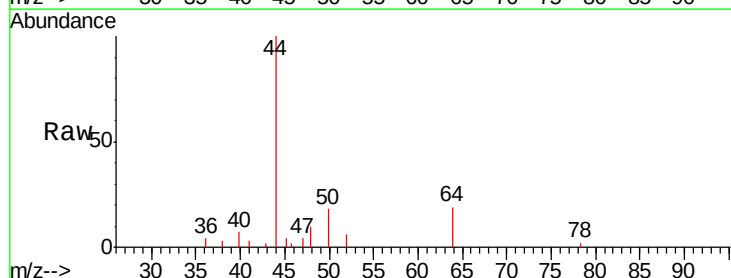
Acq: 24 Sep 2019 15:20

Tgt Ion: 50 Resp: 576

Ion Ratio Lower Upper

50 100

52 35.6 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

500

400

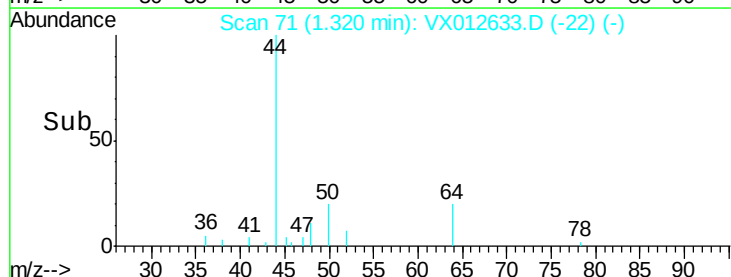
300

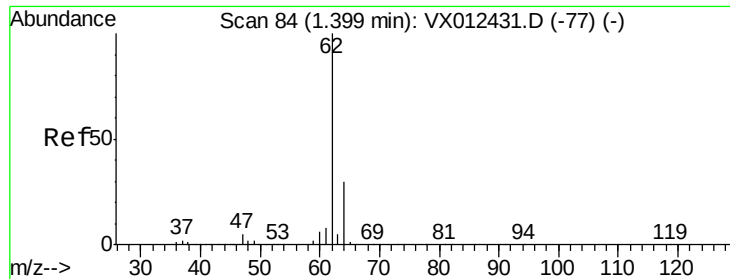
200

100

0

Time--> 1.28 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 1.904 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

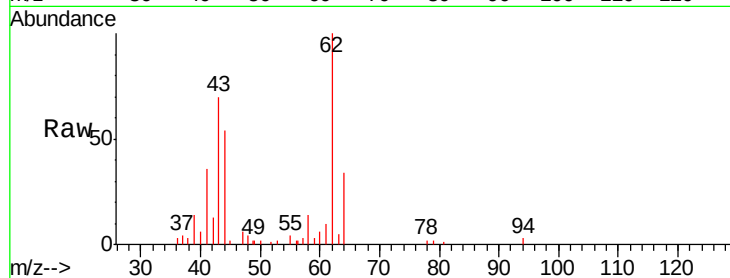
S49-0545

Tgt Ion: 62 Resp: 4051

Ion Ratio Lower Upper

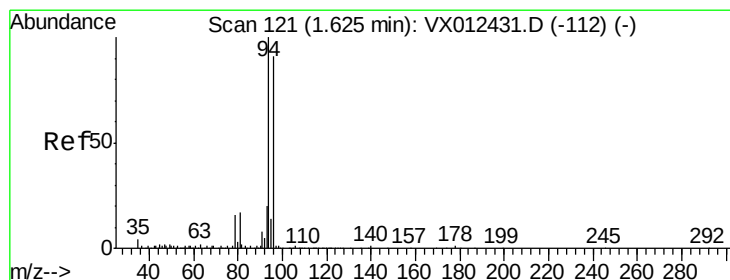
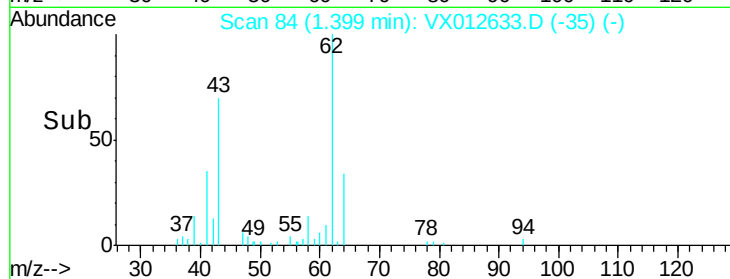
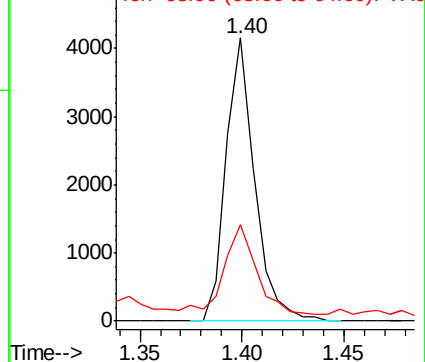
62 100

64 30.0 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: 0.606 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.04 min

Lab File: VX012633.D

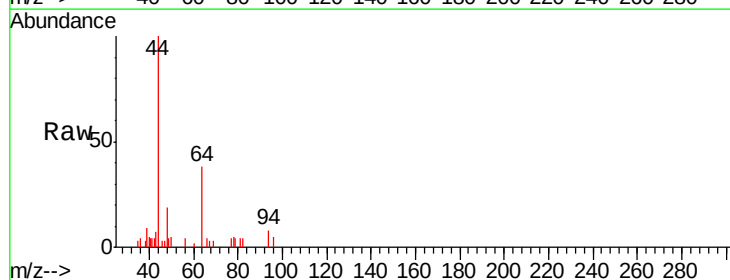
Acq: 24 Sep 2019 15:20

Tgt Ion: 94 Resp: 507

Ion Ratio Lower Upper

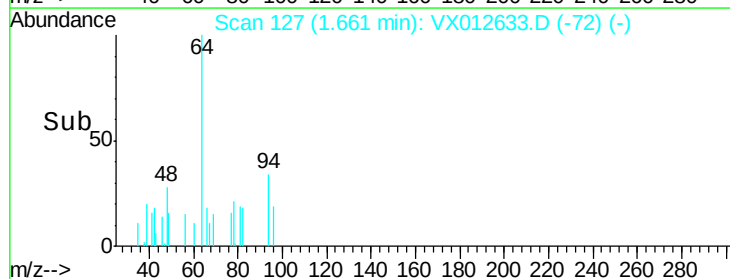
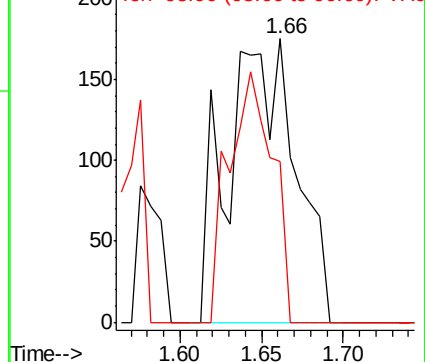
94 100

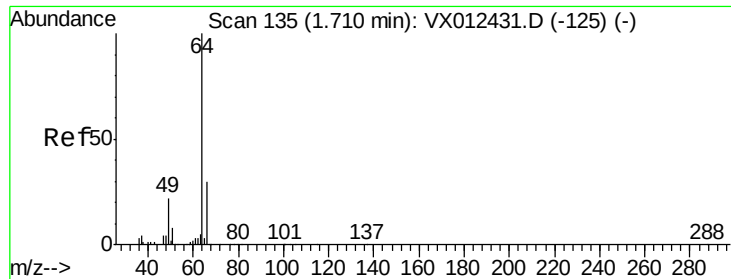
96 56.6 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 2.056 ug/l

RT: 1.62 min Scan# 120

Delta R.T. -0.09 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

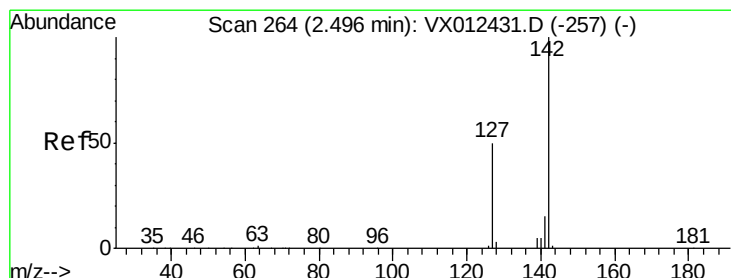
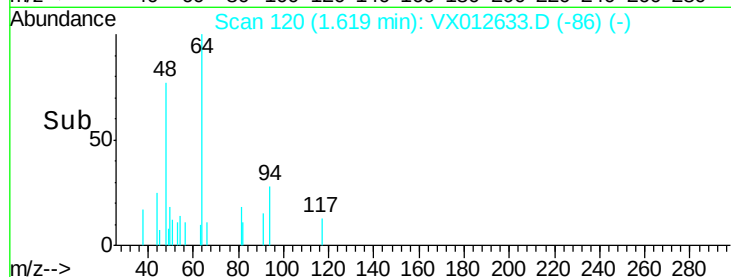
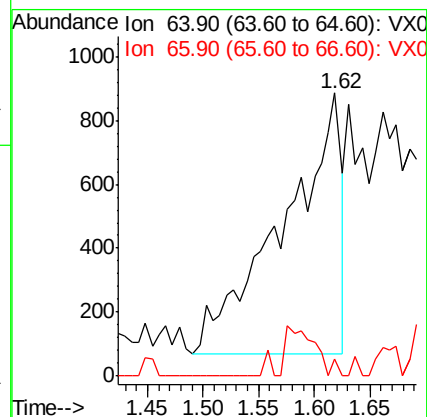
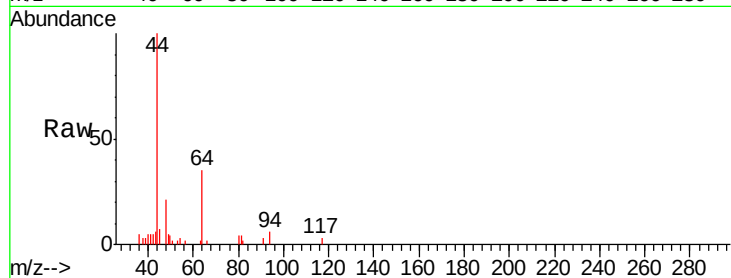
S49-0545

Tgt Ion: 64 Resp: 2949

Ion Ratio Lower Upper

64 100

66 6.7 24.0 36.0#



#10

Methyl Iodide

Concen: 5.034 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

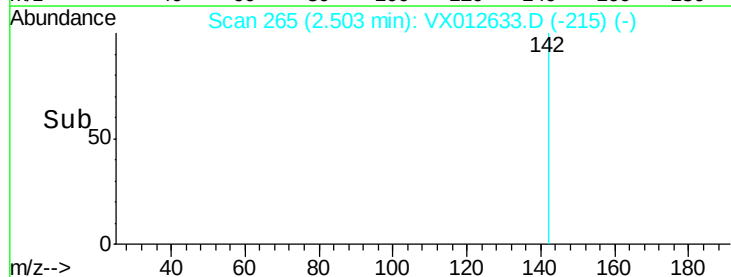
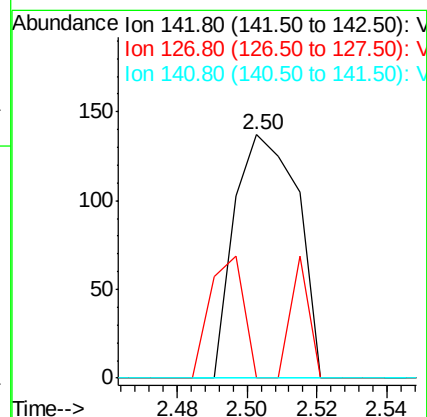
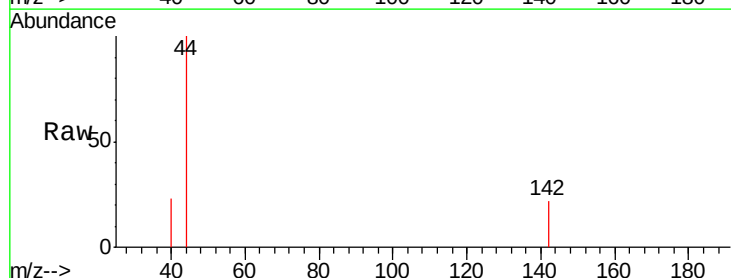
Tgt Ion: 142 Resp: 172

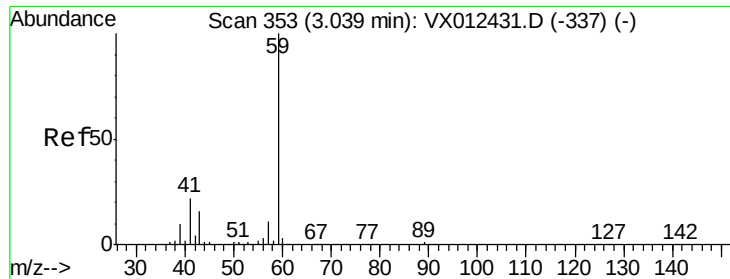
Ion Ratio Lower Upper

142 100

127 26.7 40.8 61.2#

141 0.0 12.1 18.1#

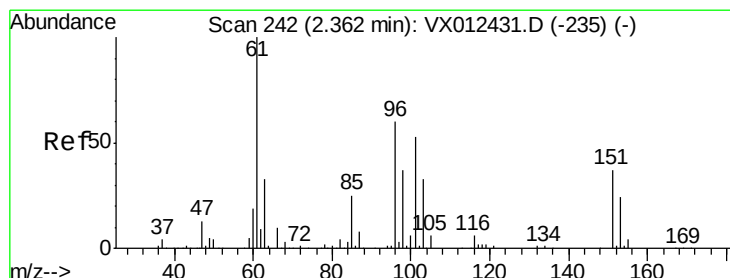
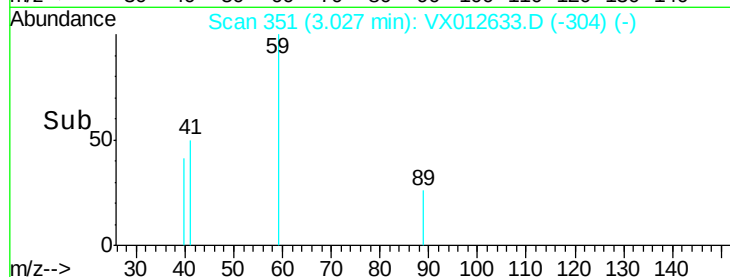
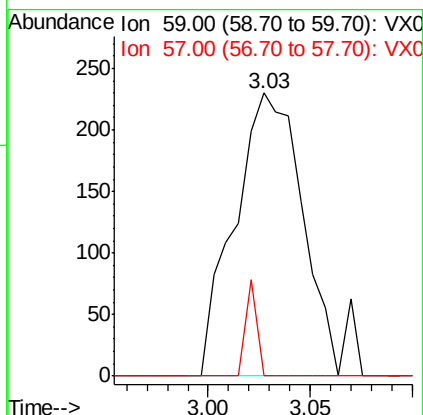
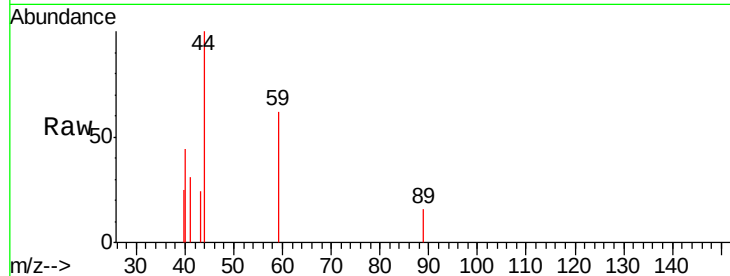




#11
Tert butyl alcohol
Concen: 0.881 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012633.D
Acq: 24 Sep 2019 15:20

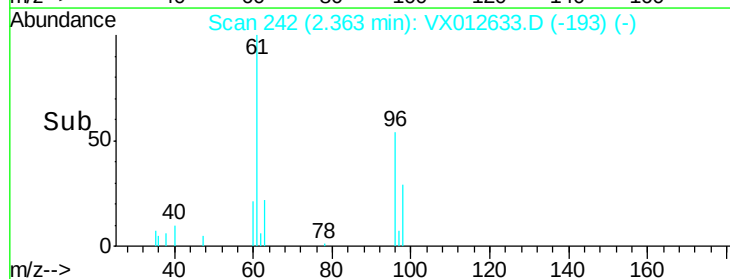
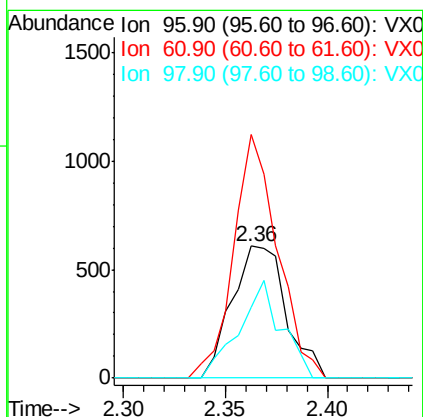
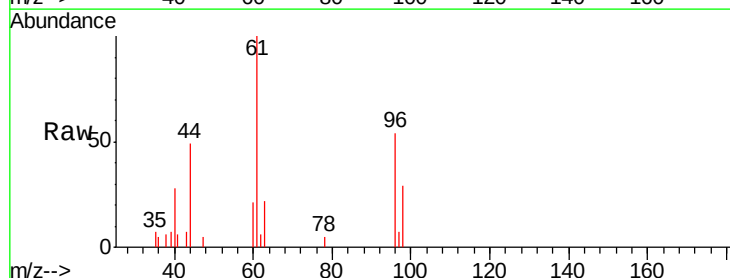
Instrument :
MSVOA_X
ClientSampled :
S49-0545

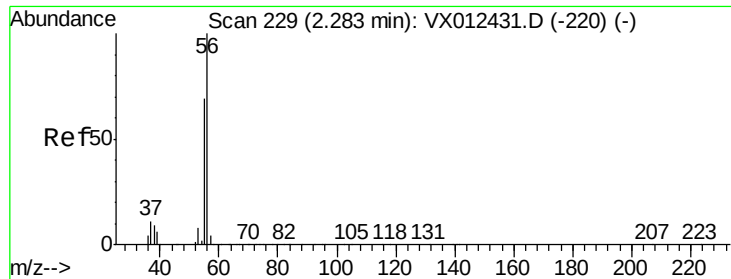
Tgt Ion: 59 Resp: 531
Ion Ratio Lower Upper
59 100
57 5.5 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 0.630 ug/l
RT: 2.36 min Scan# 242
Delta R.T. 0.00 min
Lab File: VX012633.D
Acq: 24 Sep 2019 15:20

Tgt Ion: 96 Resp: 1122
Ion Ratio Lower Upper
96 100
61 184.4 133.8 200.6
98 54.0 49.9 74.9

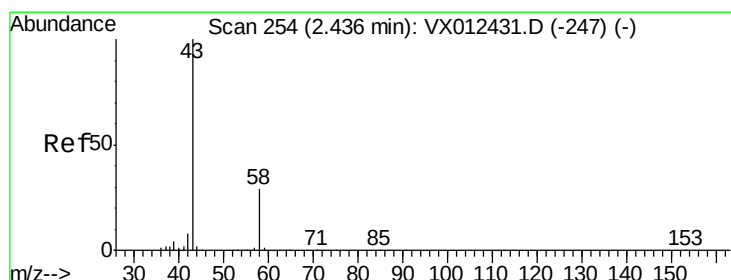
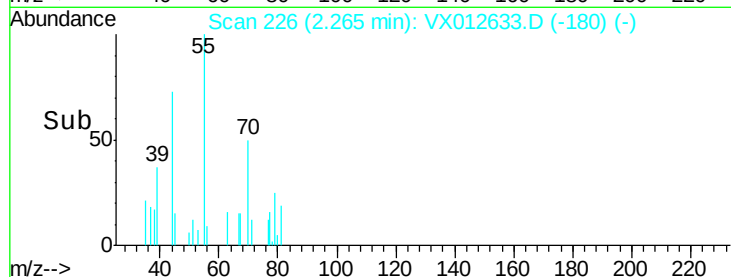
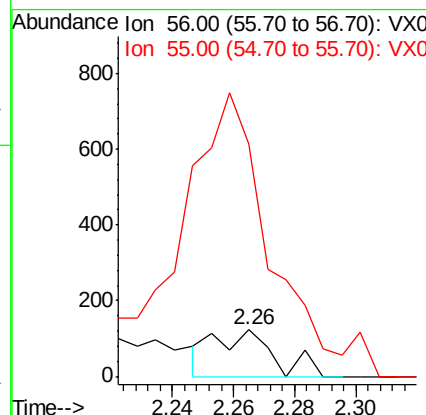
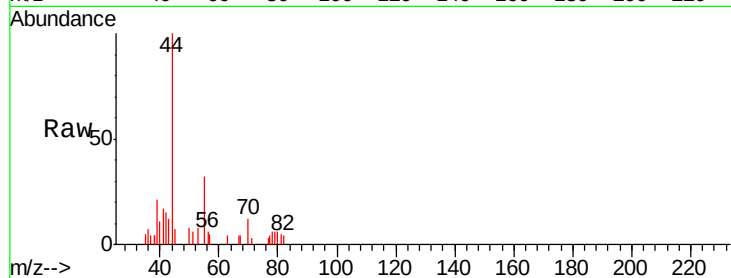




#13
Acrolein
Concen: 10.707 ug/l
RT: 2.26 min Scan# 226
Delta R.T. -0.02 min
Lab File: VX012633.D
Acq: 24 Sep 2019 15:20

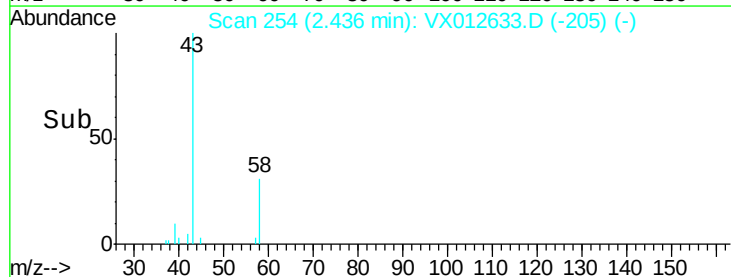
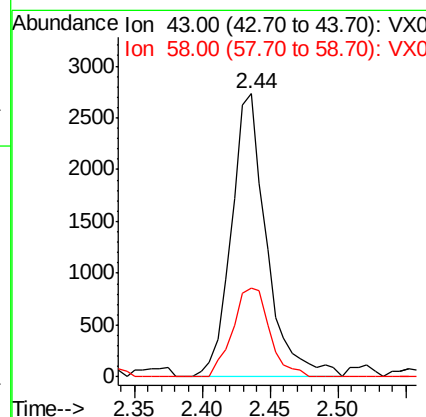
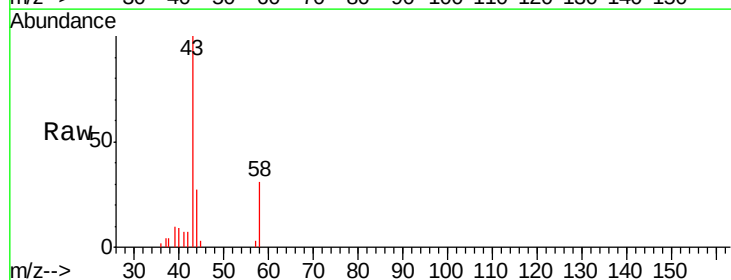
Instrument :
MSVOA_X
ClientSampleId :
S49-0545

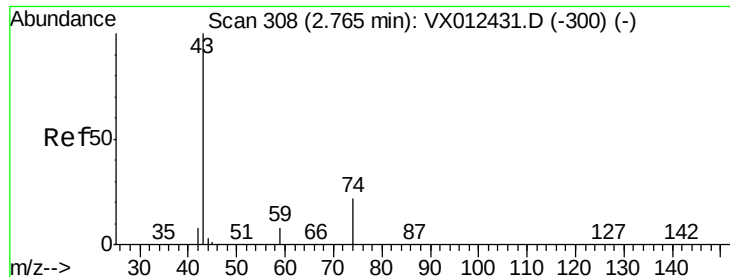
Tgt Ion: 56 Resp: 166
Ion Ratio Lower Upper
56 100
55 950.0 55.8 83.8#



#16
Acetone
Concen: 3.854 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX012633.D
Acq: 24 Sep 2019 15:20

Tgt Ion: 43 Resp: 4925
Ion Ratio Lower Upper
43 100
58 31.3 23.3 34.9

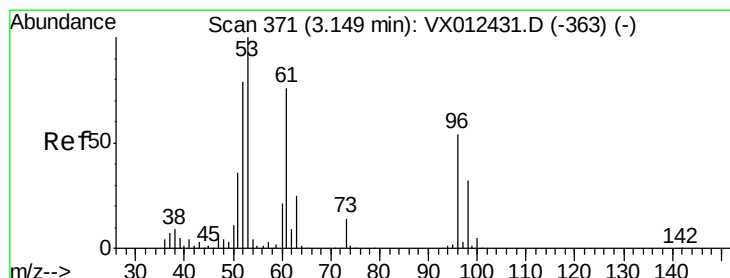
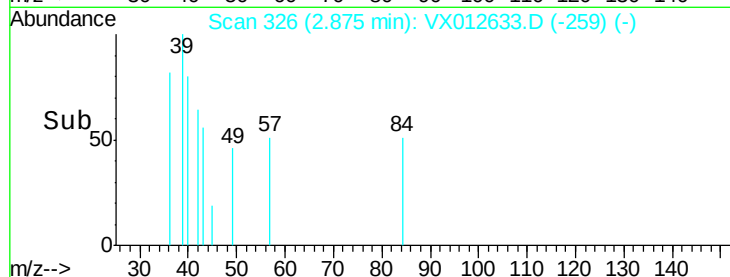
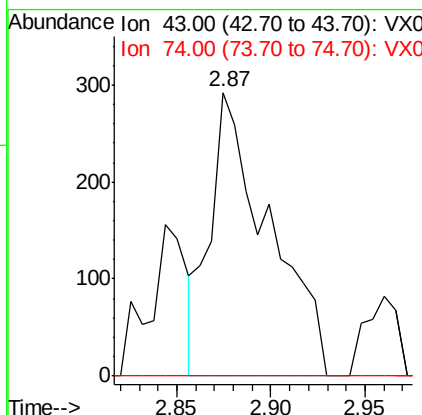
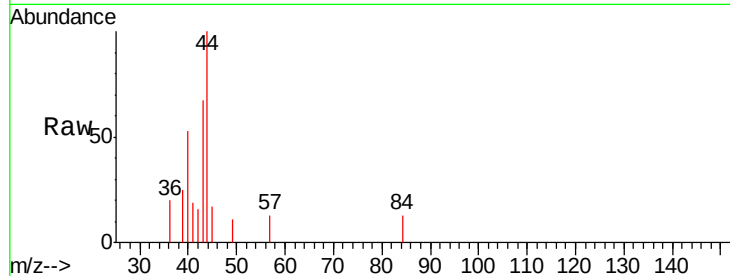




#18
Methyl Acetate
Concen: 0.209 ug/l
RT: 2.87 min Scan# 326
Delta R.T. 0.11 min
Lab File: VX012633.D
Acq: 24 Sep 2019 15:20

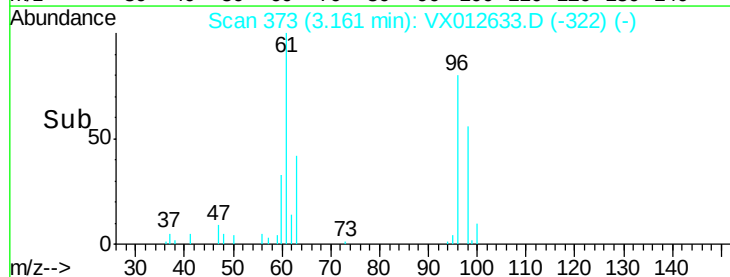
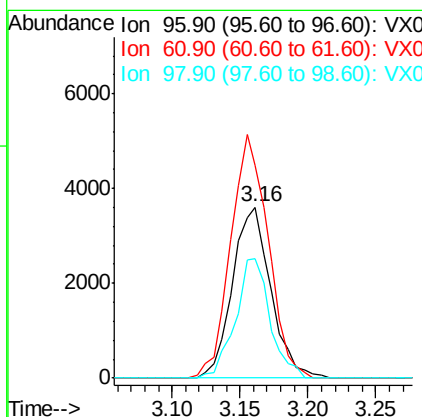
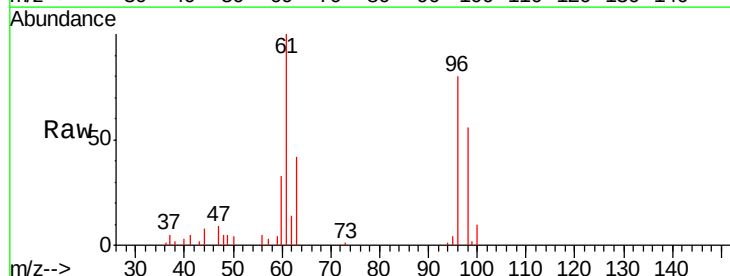
Instrument :
MSVOA_X
ClientSampleId :
S49-0545

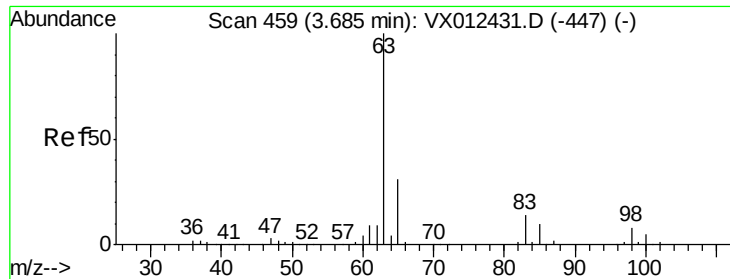
Tgt Ion: 43 Resp: 630
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#21
trans-1,2-Dichloroethene
Concen: 3.591 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX012633.D
Acq: 24 Sep 2019 15:20

Tgt Ion: 96 Resp: 7087
Ion Ratio Lower Upper
96 100
61 124.8 112.0 168.0
98 69.8 47.8 71.8





#24

1,1-Dichloroethane

Concen: 4.723 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

S49-0545

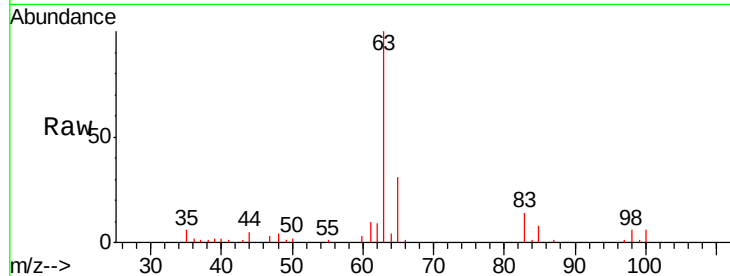
Tgt Ion: 63 Resp: 17533

Ion Ratio Lower Upper

63 100

98 5.6 3.9 11.7

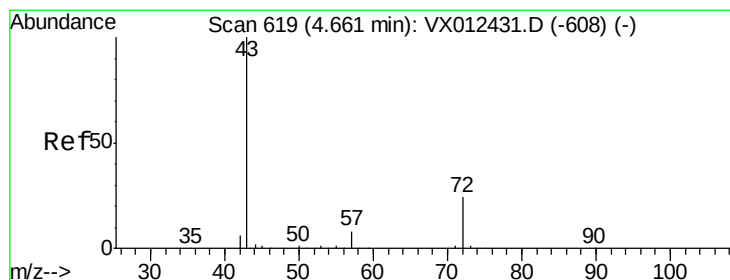
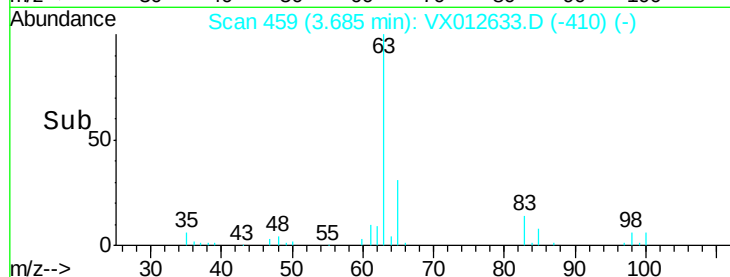
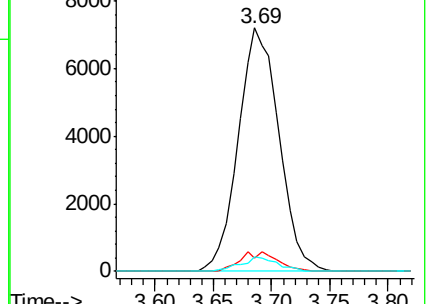
100 5.8 2.3 6.9



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



#25

2-Butanone

Concen: 0.231 ug/l

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX012633.D

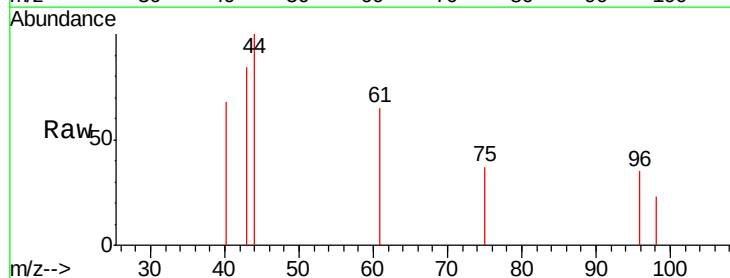
Acq: 24 Sep 2019 15:20

Tgt Ion: 43 Resp: 423

Ion Ratio Lower Upper

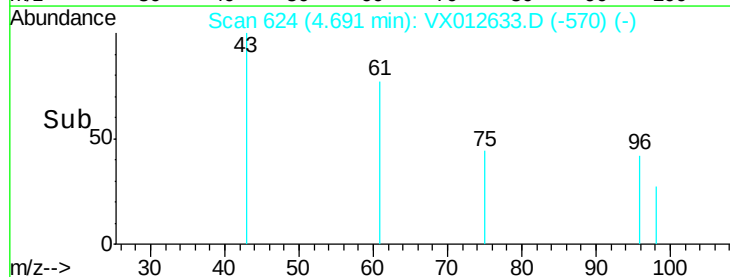
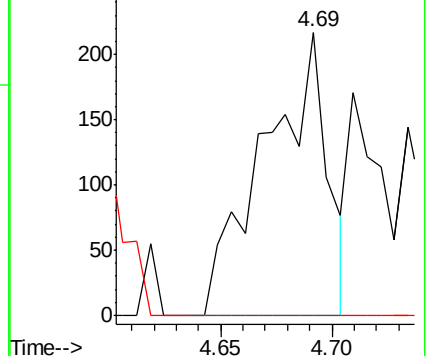
43 100

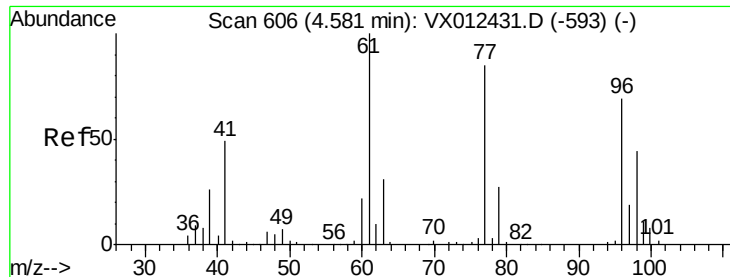
72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



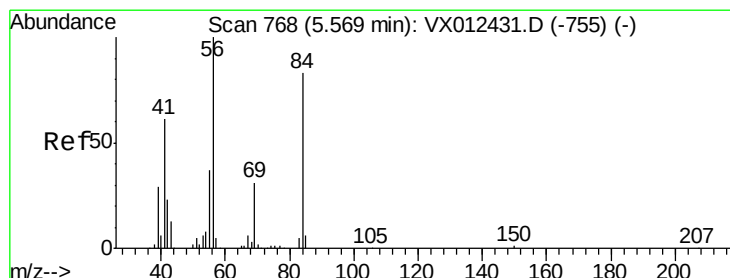
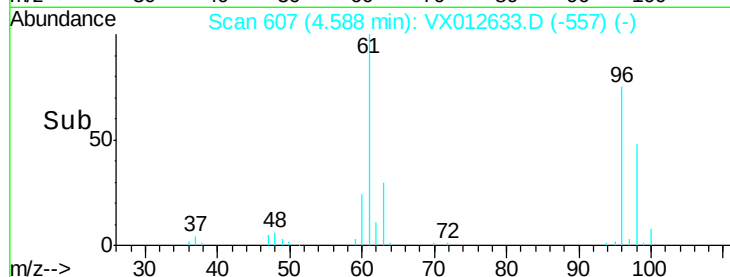
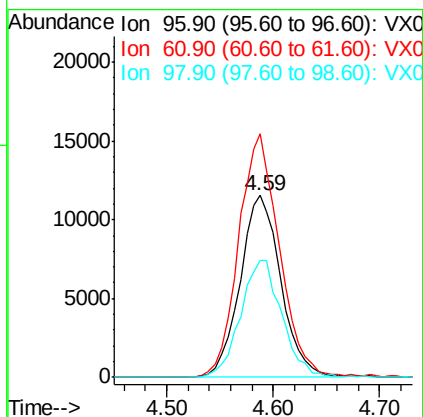
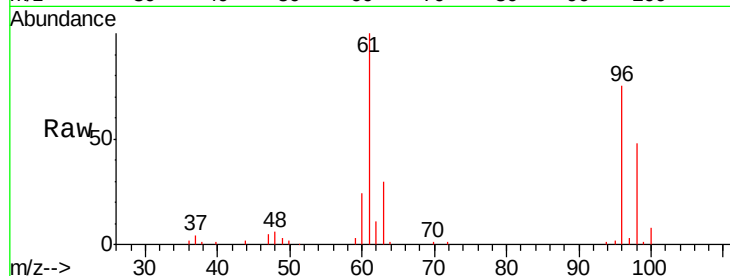


#27

cis-1,2-Dichloroethene
 Concen: 13.542 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX012633.D
 Acq: 24 Sep 2019 15:20

Instrument :
 MSVOA_X
 ClientSampled :
 S49-0545

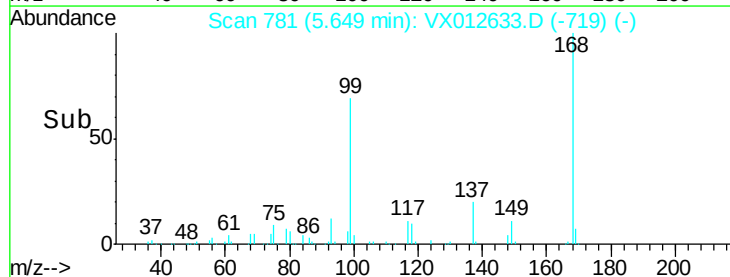
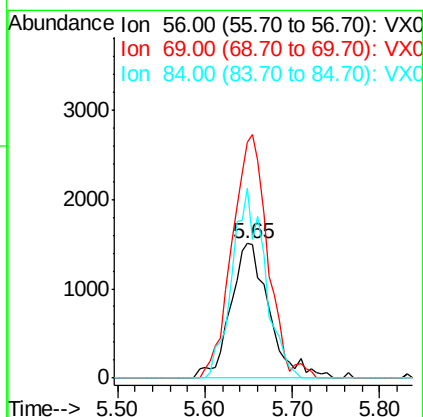
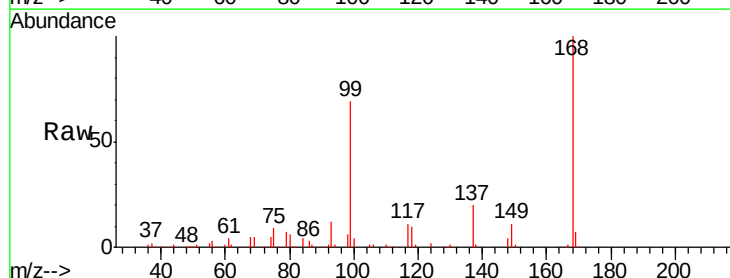
Tgt Ion: 96 Resp: 31012
 Ion Ratio Lower Upper
 96 100
 61 133.9 0.0 319.4
 98 64.9 0.0 130.6

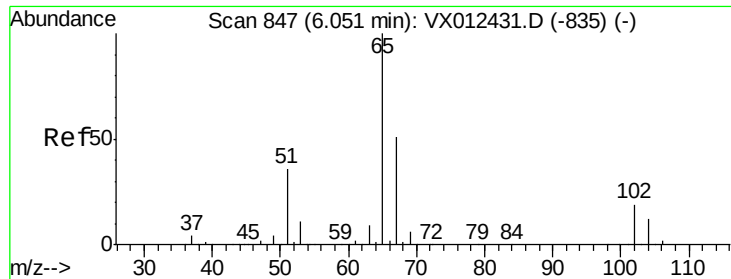


#31

Cyclohexane
 Concen: 1.371 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. 0.08 min
 Lab File: VX012633.D
 Acq: 24 Sep 2019 15:20

Tgt Ion: 56 Resp: 4605
 Ion Ratio Lower Upper
 56 100
 69 175.7 25.0 37.6#
 84 141.5 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 49.970 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampled :

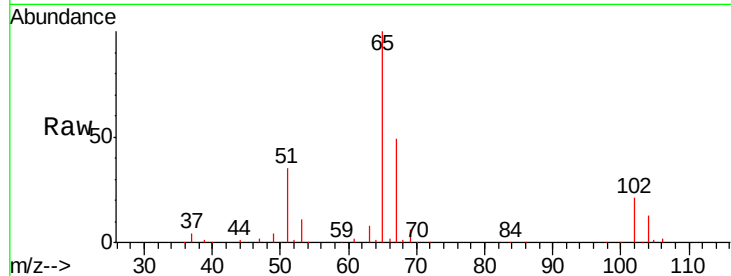
S49-0545

Tgt Ion: 65 Resp: 120568

Ion Ratio Lower Upper

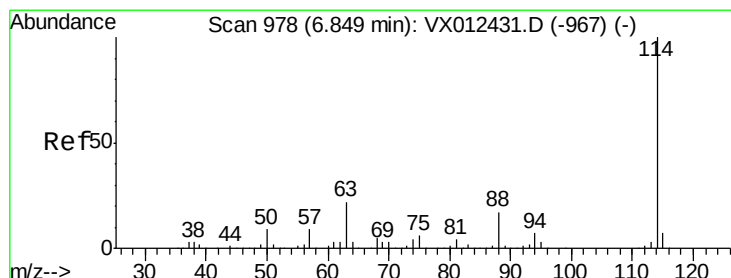
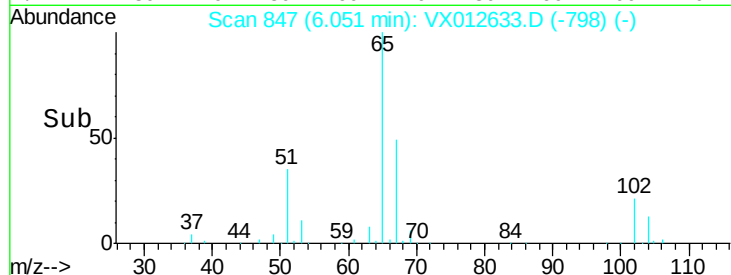
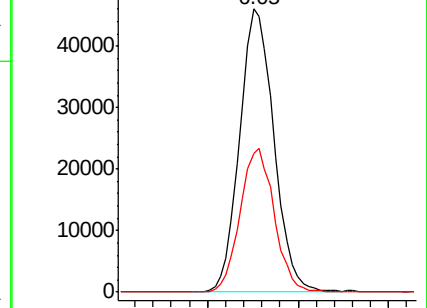
65 100

67 50.7 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: VX012633.D

Acq: 24 Sep 2019 15:20

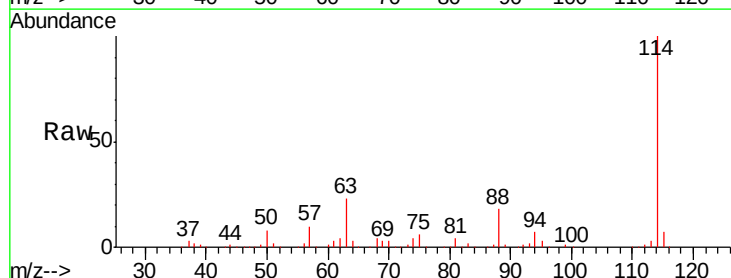
Tgt Ion: 114 Resp: 286910

Ion Ratio Lower Upper

114 100

63 22.9 0.0 43.2

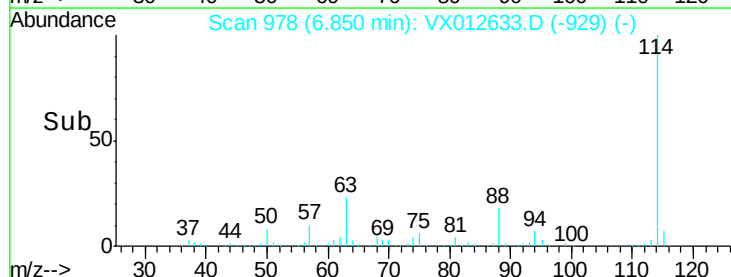
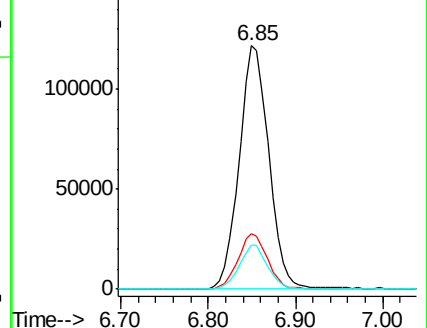
88 17.9 0.0 33.2

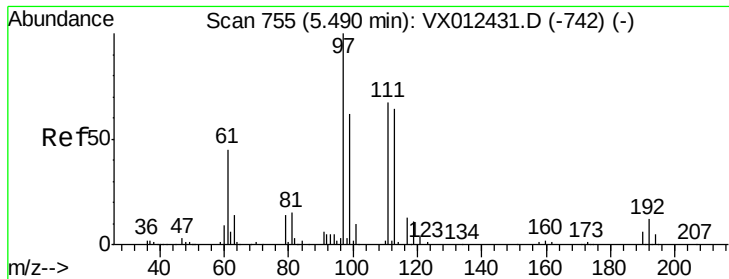


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.640 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

S49-0545

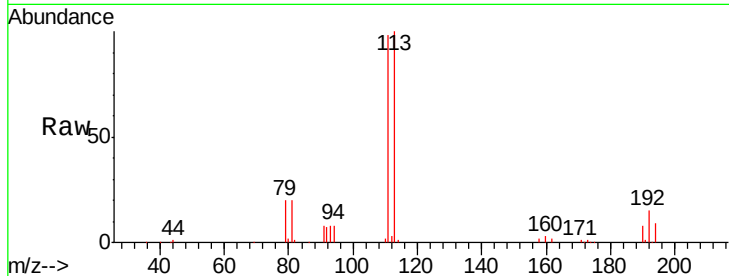
Tgt Ion:113 Resp: 86527

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.2

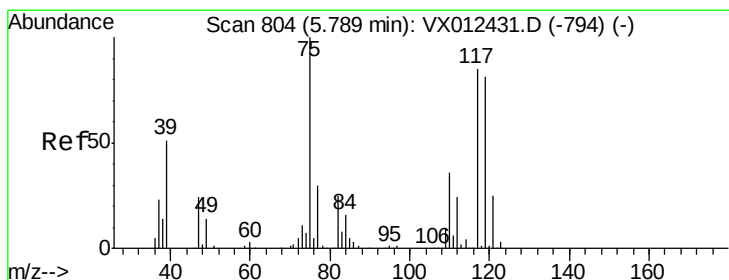
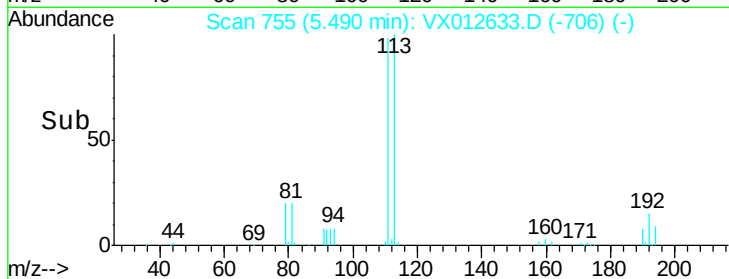
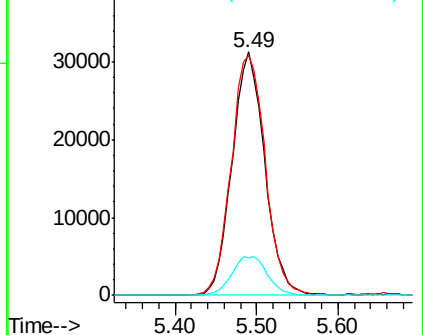
192 17.3 14.4 21.6



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: 5.317 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

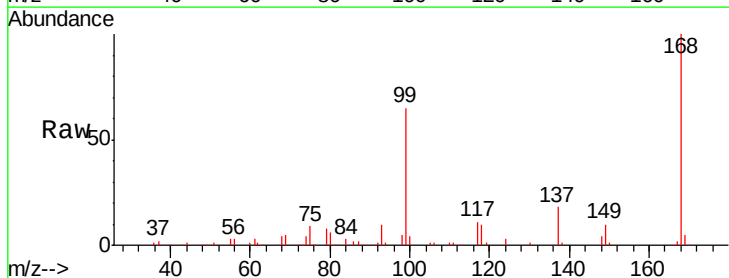
Tgt Ion: 75 Resp: 14703

Ion Ratio Lower Upper

75 100

110 5.0 16.7 50.0#

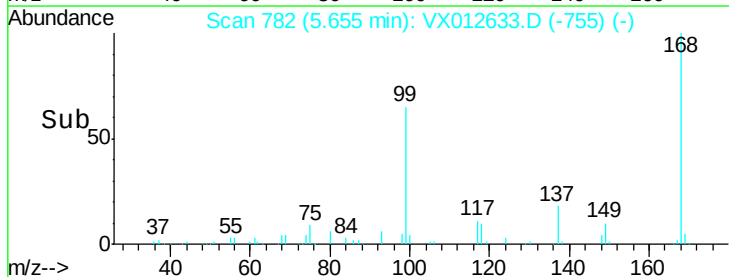
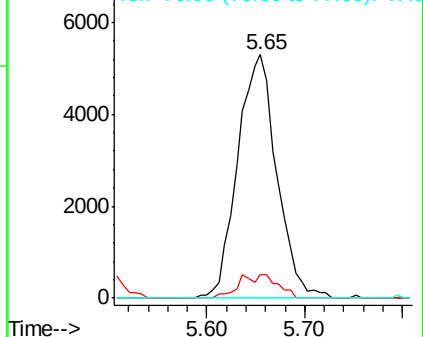
77 0.0 24.2 36.2#

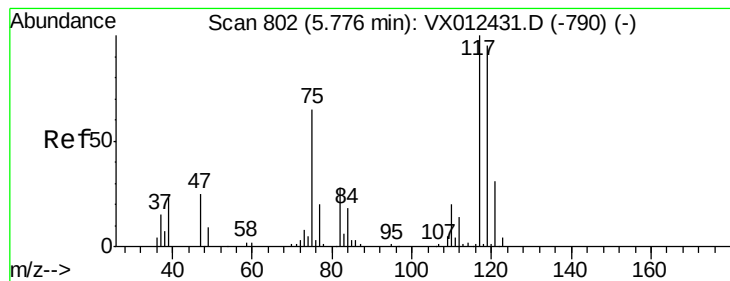


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.563 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampled :

S49-0545

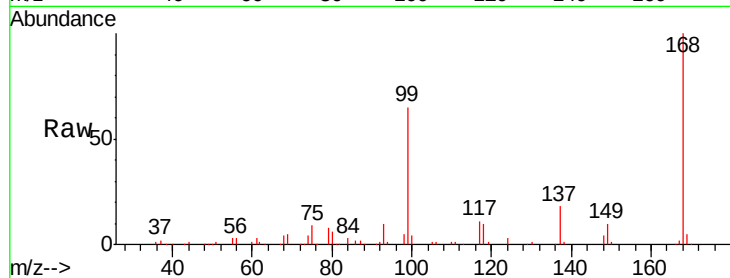
Tgt Ion:117 Resp: 18437

Ion Ratio Lower Upper

117 100

119 6.4 75.7 113.5#

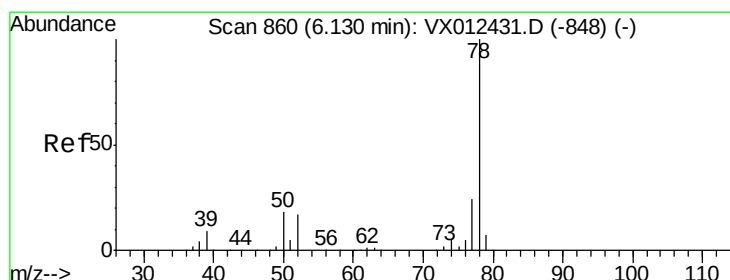
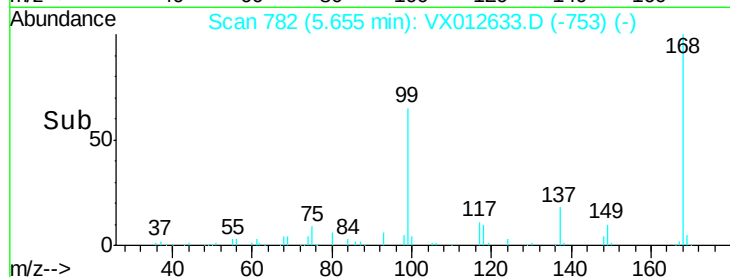
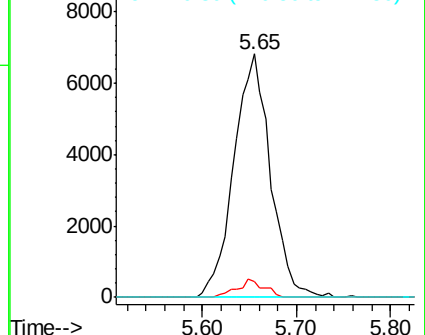
121 0.0 24.2 36.4#



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: 0.227 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX012633.D

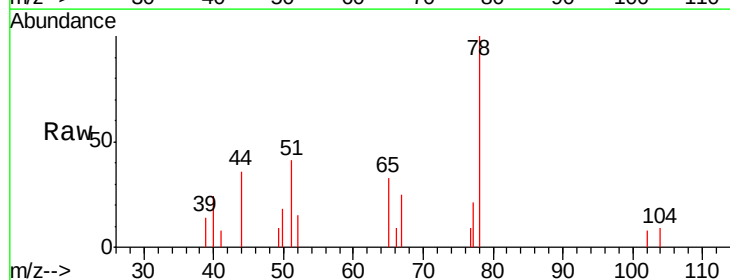
Acq: 24 Sep 2019 15:20

Tgt Ion: 78 Resp: 1849

Ion Ratio Lower Upper

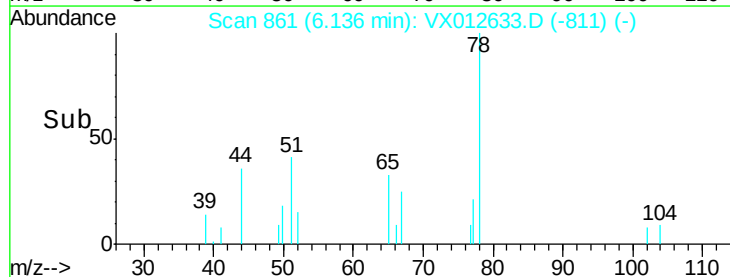
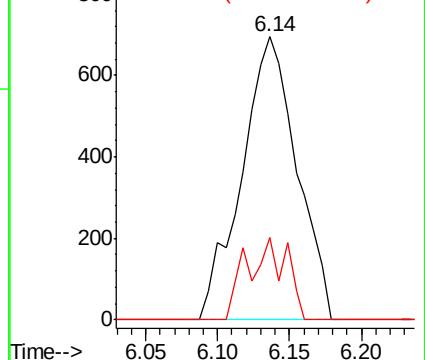
78 100

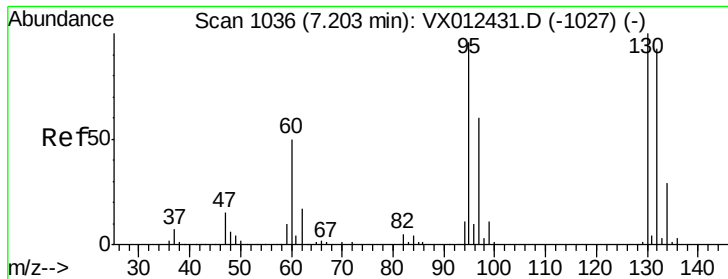
77 29.2 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.656 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

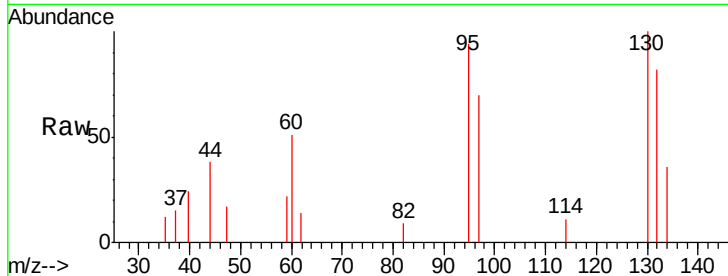
S49-0545

Tgt Ion:130 Resp: 1365

Ion Ratio Lower Upper

130 100

95 93.8 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

800

600

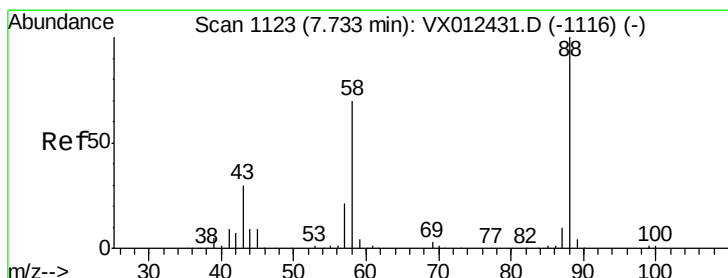
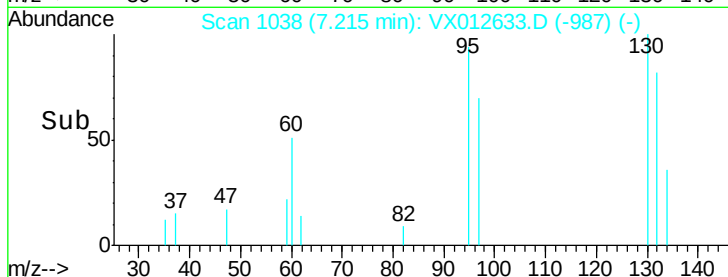
400

200

0

7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 2.551 ug/l

RT: 7.76 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

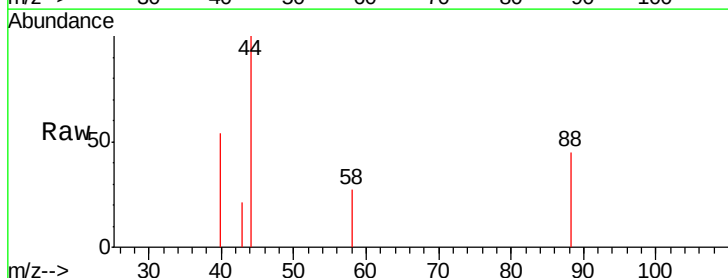
Tgt Ion: 88 Resp: 150

Ion Ratio Lower Upper

88 100

43 76.0 29.4 44.0#

58 69.3 57.5 86.3



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

150

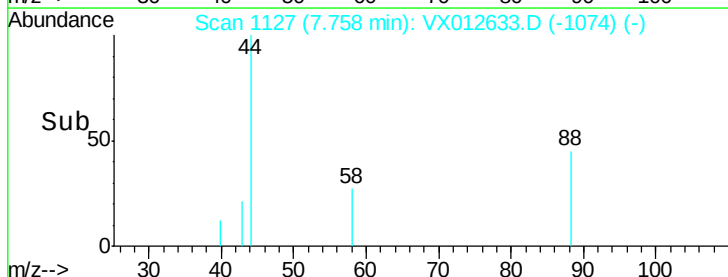
100

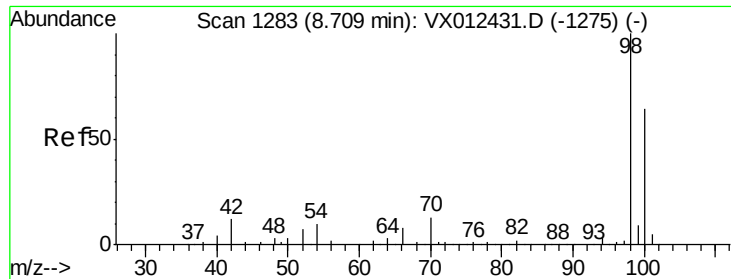
50

0

7.72 7.74 7.76 7.78

Time-->

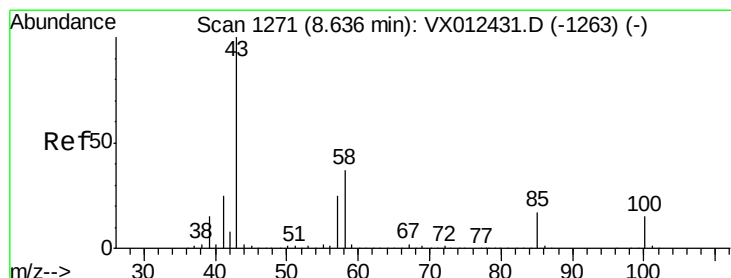
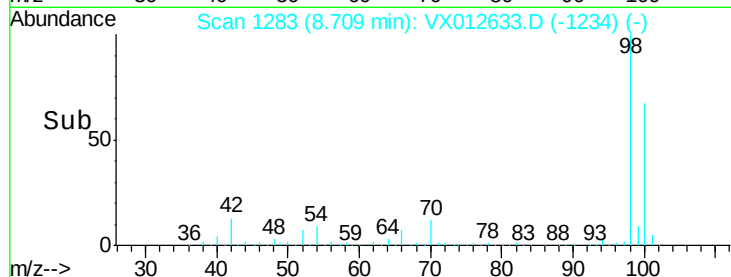
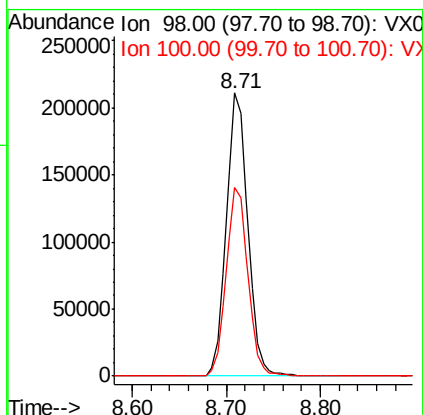
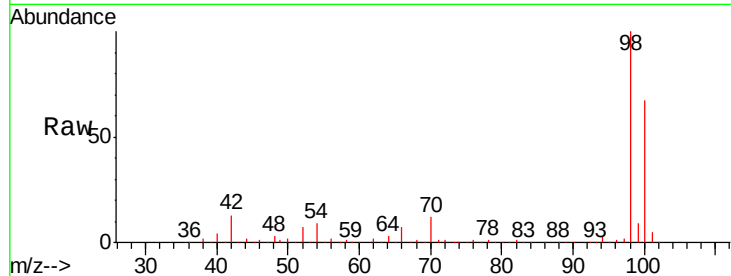




#50
Toluene-d8
Concen: 50.869 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012633.D
Acq: 24 Sep 2019 15:20

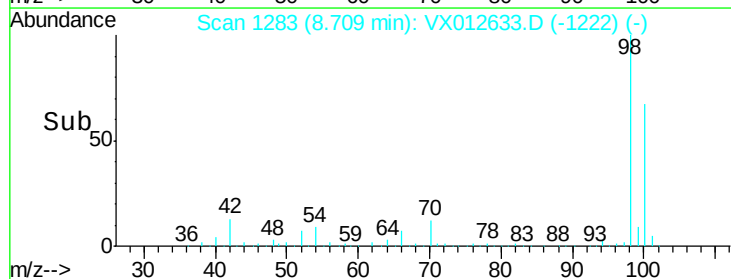
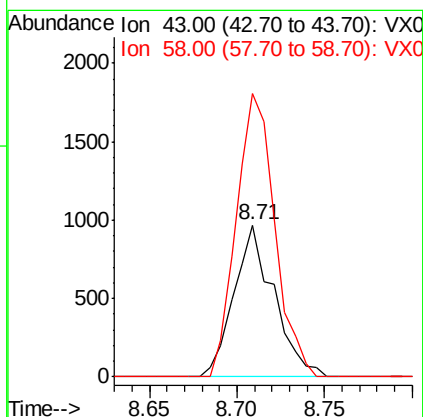
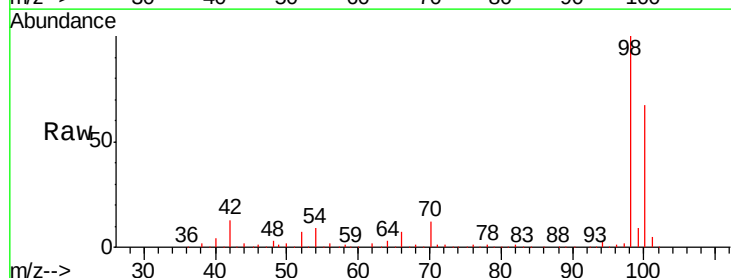
Instrument :
MSVOA_X
ClientSampleId :
S49-0545

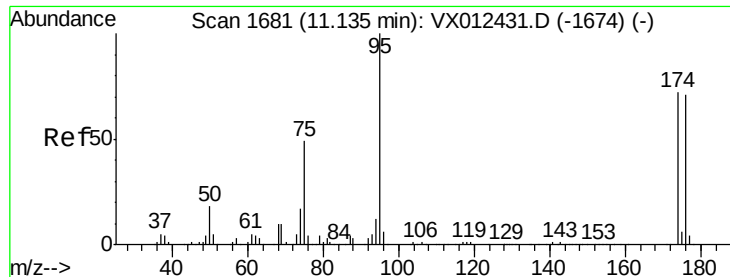
Tgt Ion: 98 Resp: 334730
Ion Ratio Lower Upper
98 100
100 67.3 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.462 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012633.D
Acq: 24 Sep 2019 15:20

Tgt Ion: 43 Resp: 1541
Ion Ratio Lower Upper
43 100
58 179.4 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 42.058 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampled :

S49-0545

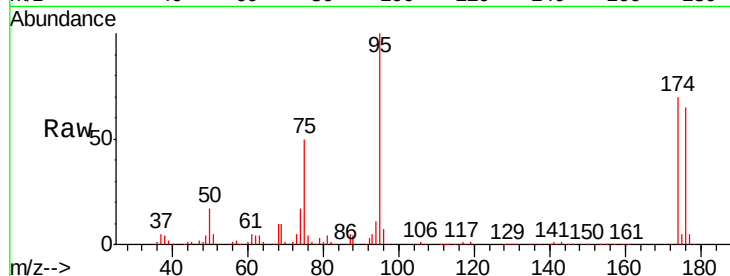
Tgt Ion: 95 Resp: 108818

Ion Ratio Lower Upper

95 100

174 67.8 0.0 140.0

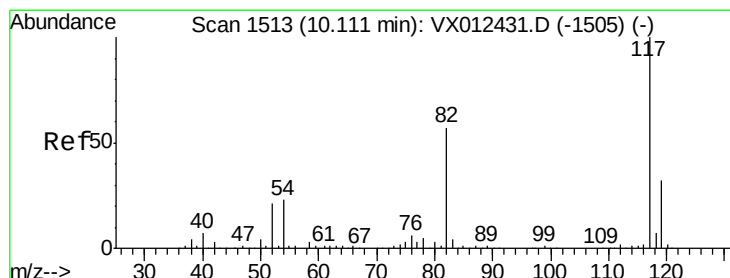
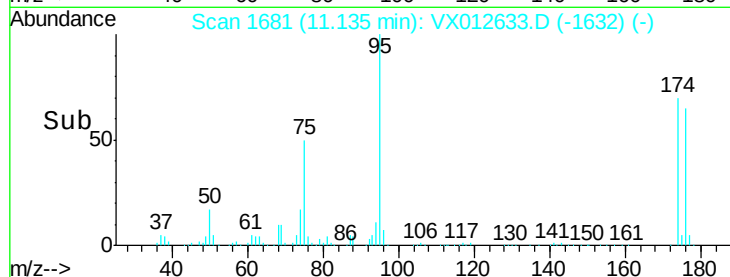
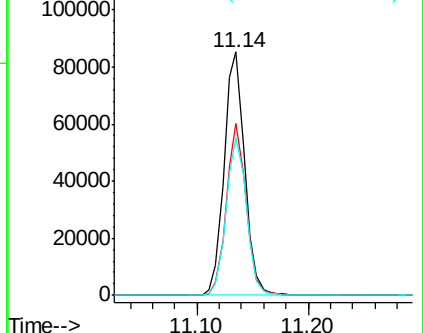
176 64.4 0.0 135.4



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: VX012633.D

Acq: 24 Sep 2019 15:20

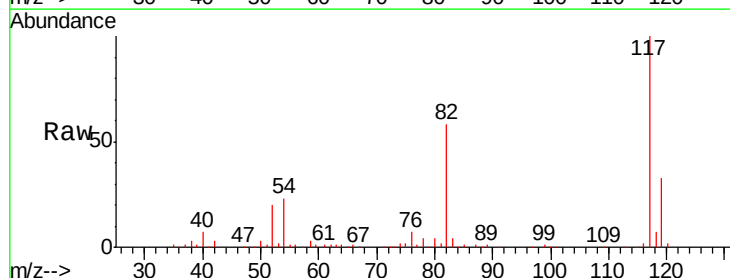
Tgt Ion: 117 Resp: 237580

Ion Ratio Lower Upper

117 100

82 57.7 45.9 68.9

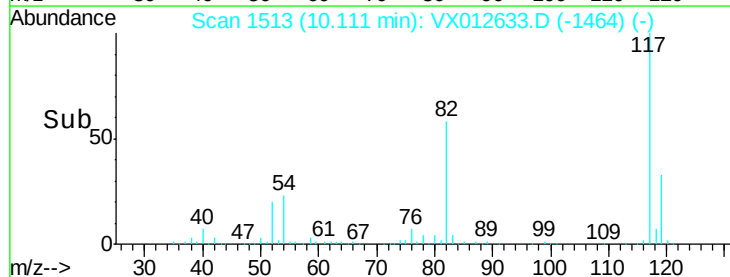
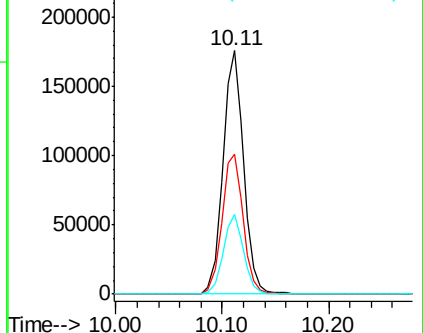
119 32.7 25.3 37.9

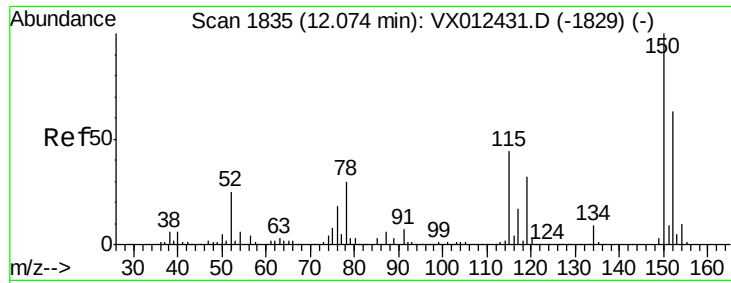


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

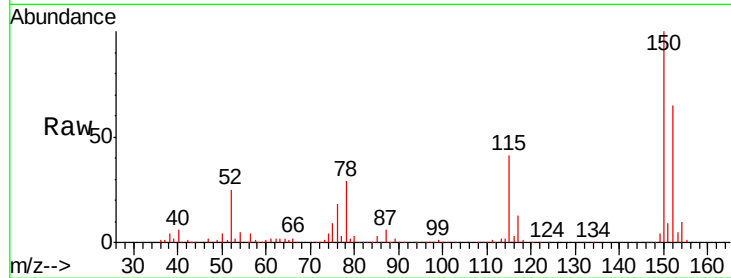




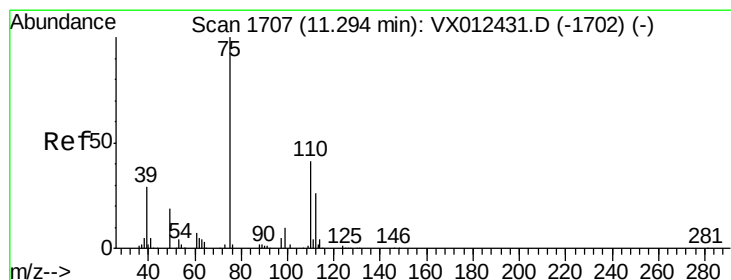
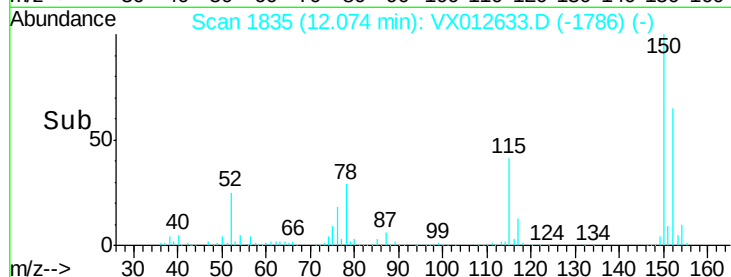
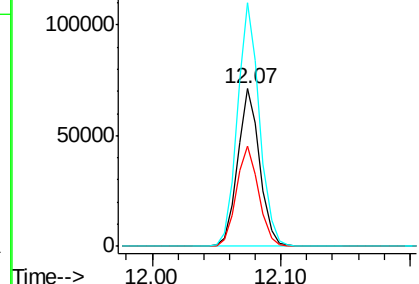
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX012633.D
 Acq: 24 Sep 2019 15:20

Instrument :
 MSVOA_X
 ClientSampled :
 S49-0545

Tgt Ion:152 Resp: 84897
 Ion Ratio Lower Upper
 152 100
 115 64.7 44.1 132.3
 150 154.6 0.0 343.8

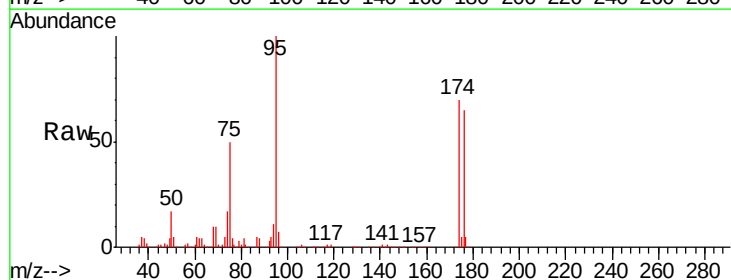


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

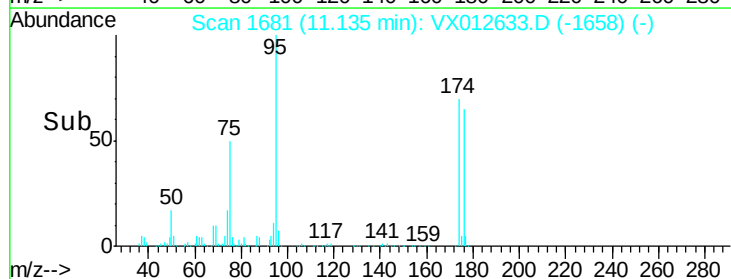
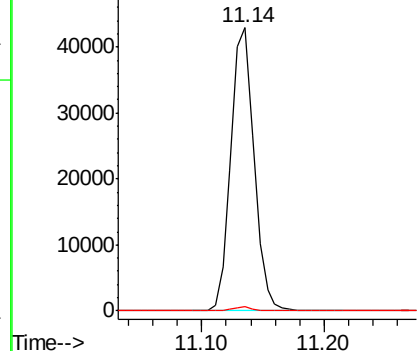


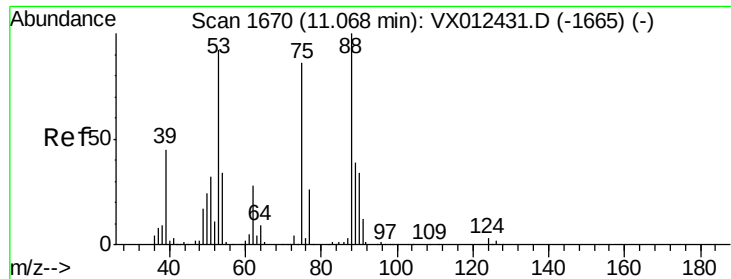
#76
 1,2,3-Trichloropropane
 Concen: 25.094 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.16 min
 Lab File: VX012633.D
 Acq: 24 Sep 2019 15:20

Tgt Ion: 75 Resp: 56355
 Ion Ratio Lower Upper
 75 100
 77 1.2 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: 71.914 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012633.D

Acq: 24 Sep 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

S49-0545

Tgt Ion: 75 Resp: 56355

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

