

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100119\
 Data File : VX012727.D
 Acq On : 01 Oct 2019 12:54
 Operator : JC/SP
 Sample : K5081-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 02 01:45:37 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	164164	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	283734	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	237209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	80310	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	115441	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
35) Dibromofluoromethane	5.49	113	86261	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
50) Toluene-d8	8.71	98	334108	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
62) 4-Bromofluorobenzene	11.14	95	105089	41.07	ug/l	0.00
Spiked Amount			Recovery	=	82.14%	

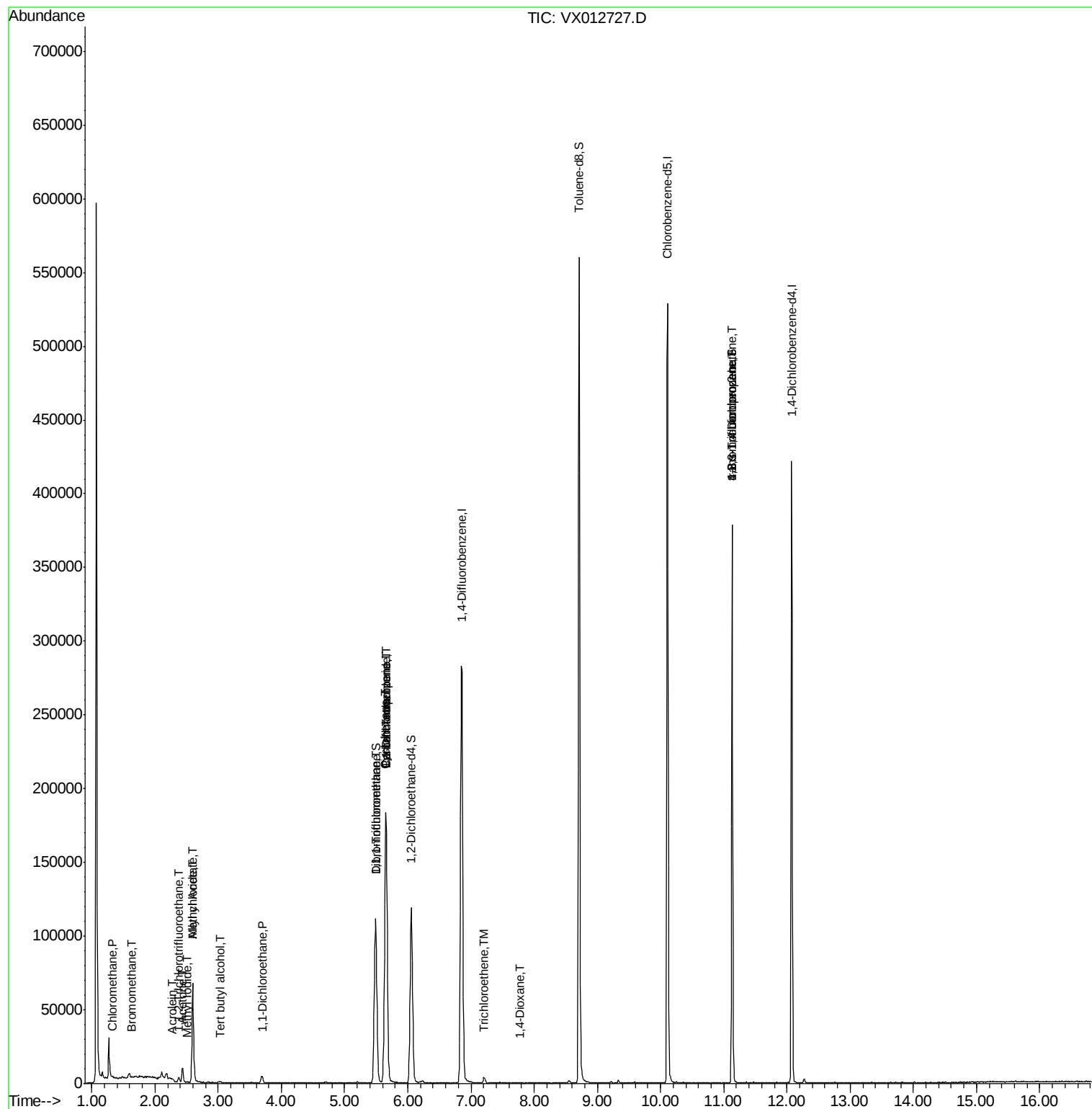
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	614	0.290	ug/l #	62
5) Bromomethane	1.64	94	423	0.510	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1120	0.621	ug/l #	77
10) Methyl Iodide	2.51	142	373	5.130	ug/l #	78
11) Tert butyl alcohol	3.04	59	1201	2.011	ug/l #	72
13) Acrolein	2.28	56	75	10.449	ug/l #	15
14) Allyl chloride	2.60	41	6816	1.946	ug/l #	66
16) Acetone	2.44	43	11161	8.814	ug/l #	89
18) Methyl Acetate	2.60	43	17436	5.848	ug/l #	54
24) 1,1-Dichloroethane	3.69	63	5293	1.439	ug/l	97
31) Cyclohexane	5.64	56	4025	1.210	ug/l #	37
32) 1,1,1-Trichloroethane	5.49	97	11437	3.429	ug/l	99
36) 1,1-Dichloropropene	5.65	75	14437	5.279	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18184	6.545	ug/l #	16
44) Trichloroethene	7.20	130	1607	0.781	ug/l	98
49) 1,4-Dioxane	7.77	88	29	0.499	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	54981	25.881	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	54981	74.168	ug/l #	8

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
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: VX012727.D

Acq: 01 Oct 2019 12:54

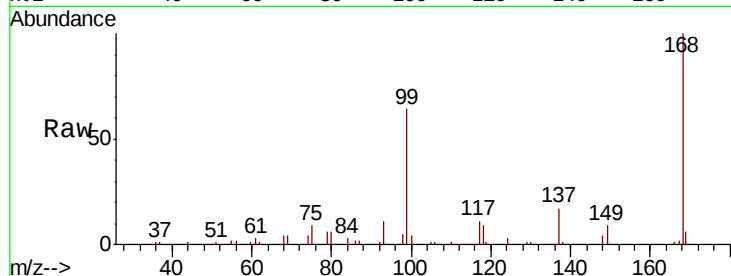
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 164164

Ion Ratio Lower Upper

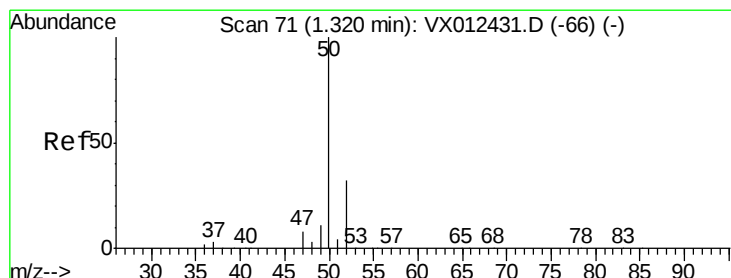
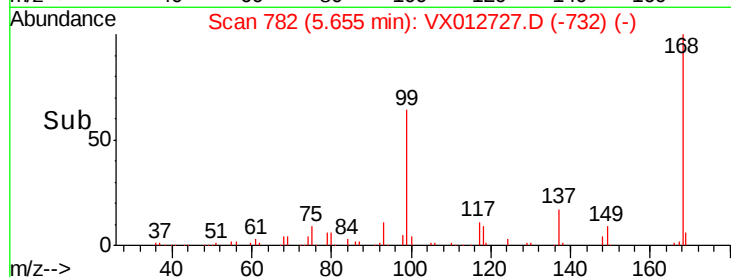
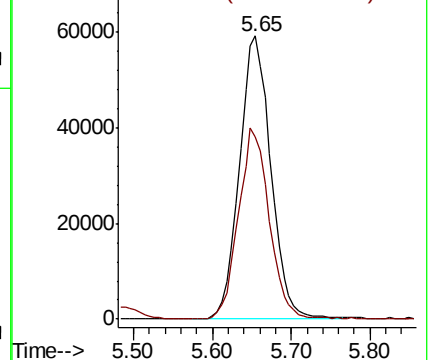
168 100

99 64.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.290 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012727.D

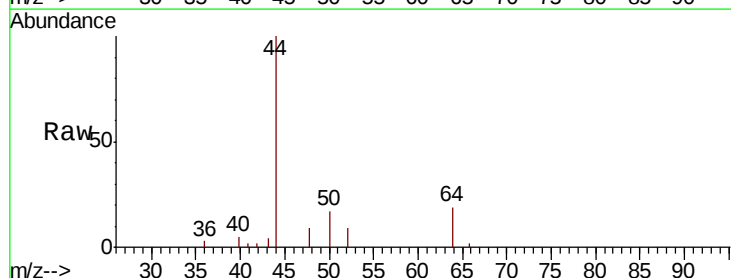
Acq: 01 Oct 2019 12:54

Tgt Ion: 50 Resp: 614

Ion Ratio Lower Upper

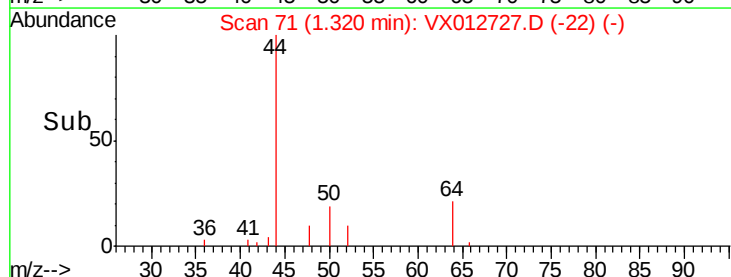
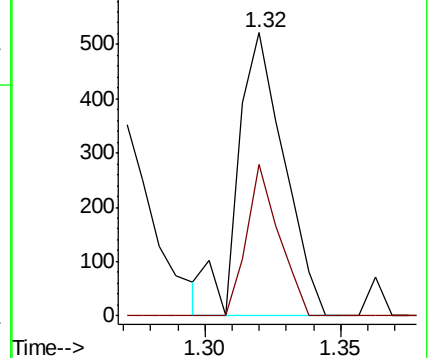
50 100

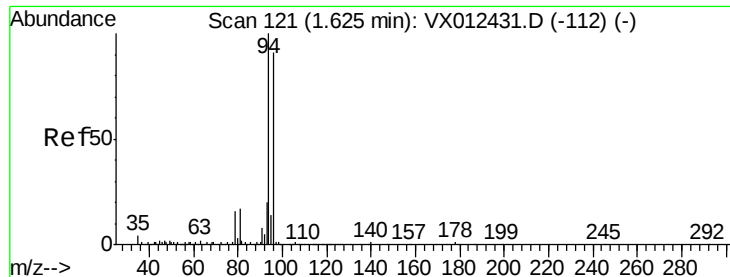
52 53.4 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.510 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

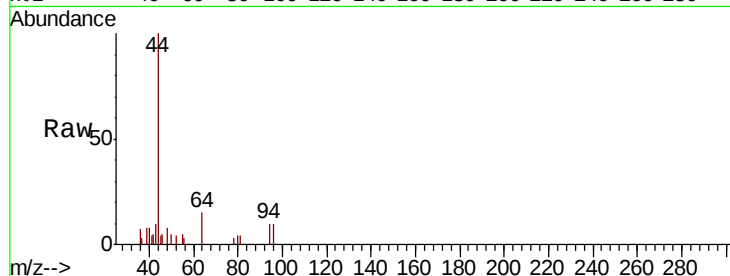
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 423

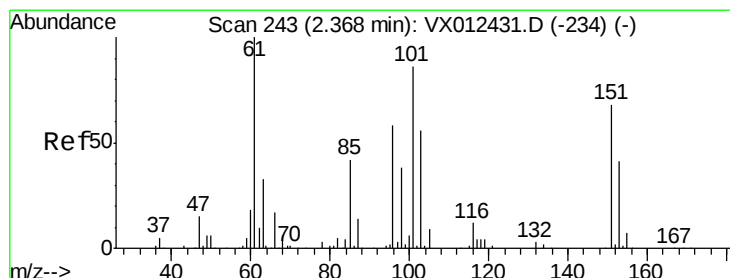
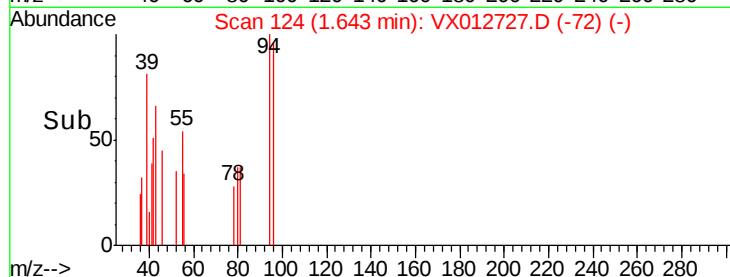
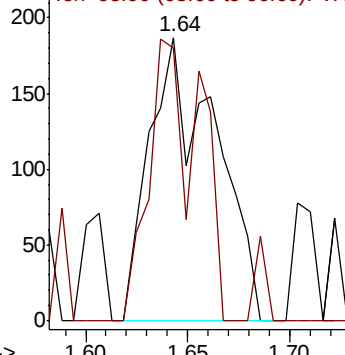
Ion Ratio Lower Upper

94 100

96 96.3 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0
Ion 95.90 (95.60 to 96.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.621 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

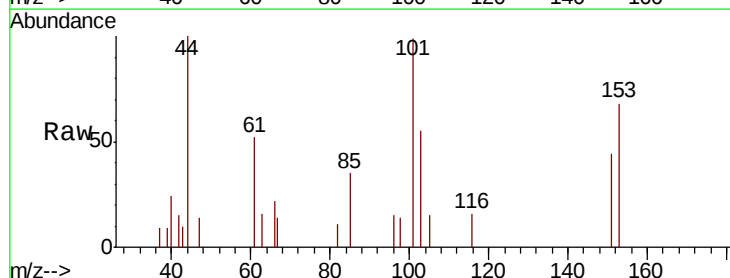
Tgt Ion: 101 Resp: 1120

Ion Ratio Lower Upper

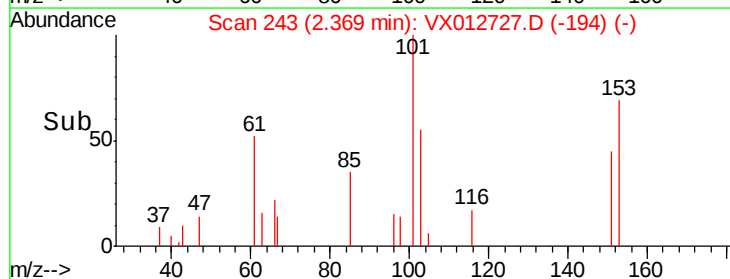
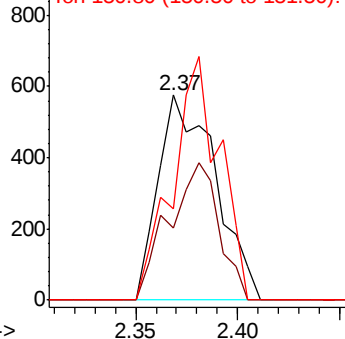
101 100

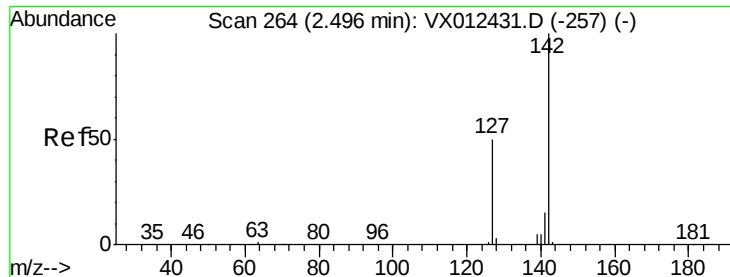
85 59.2 37.3 55.9#

151 97.8 61.0 91.4#



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VX0
Ion 150.80 (150.50 to 151.50): V

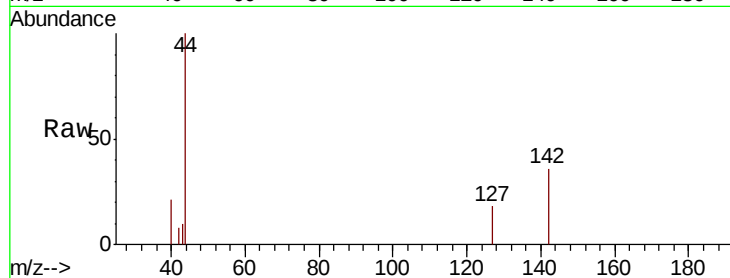




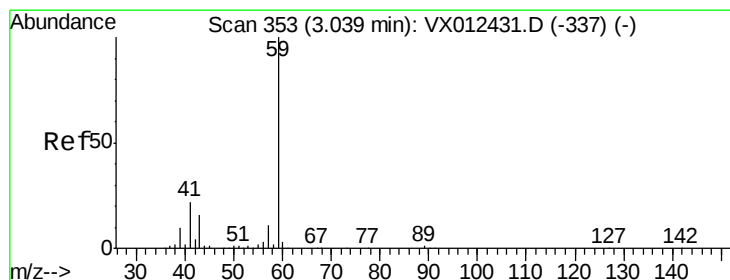
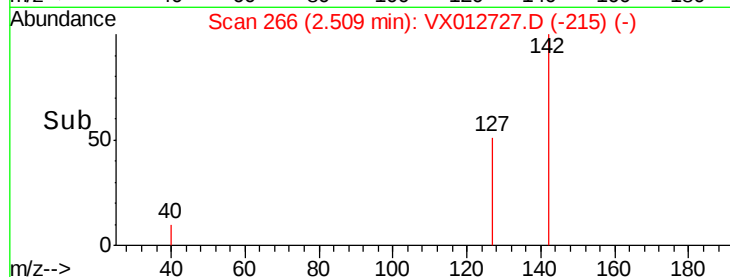
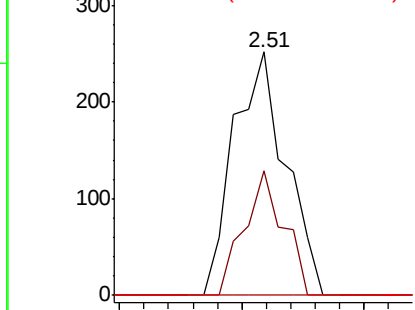
#10
Methvl Iodide
Concen: 5.130 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012727.D
Acq: 01 Oct 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 373
Ion Ratio Lower Upper
142 100
127 38.9 40.8 61.2#
141 0.0 12.1 18.1#

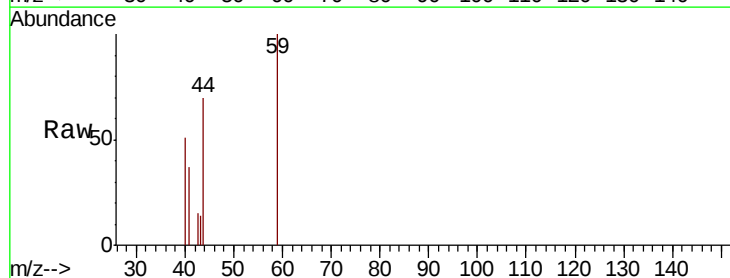


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

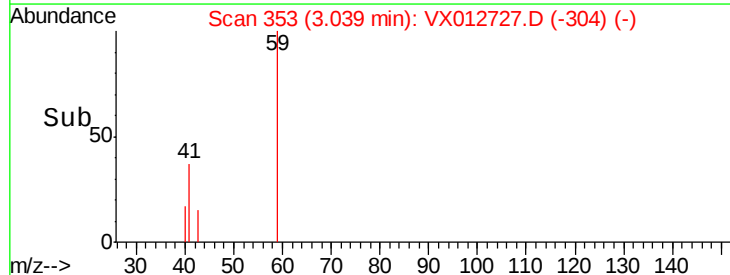
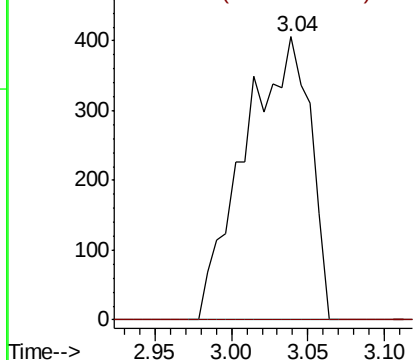


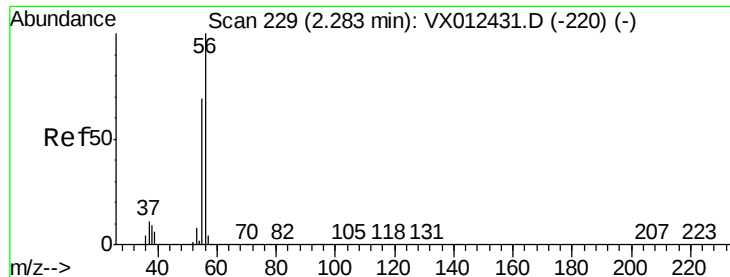
#11
Tert butyl alcohol
Concen: 2.011 ug/l
RT: 3.04 min Scan# 353
Delta R.T. 0.00 min
Lab File: VX012727.D
Acq: 01 Oct 2019 12:54

Tgt Ion: 59 Resp: 1201
Ion Ratio Lower Upper
59 100
57 0.0 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: 10.449 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

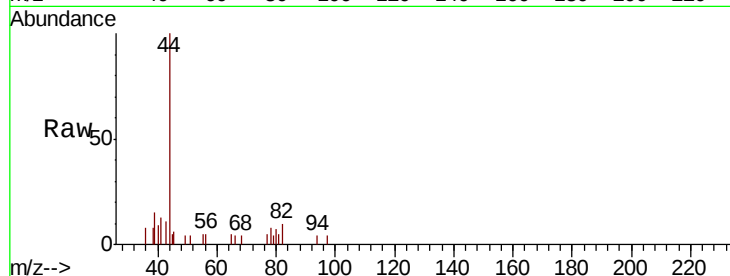
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 75

Ion Ratio Lower Upper

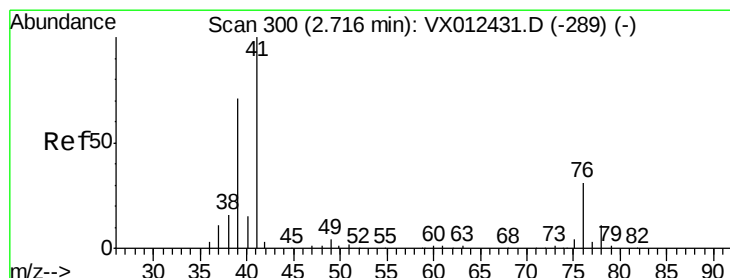
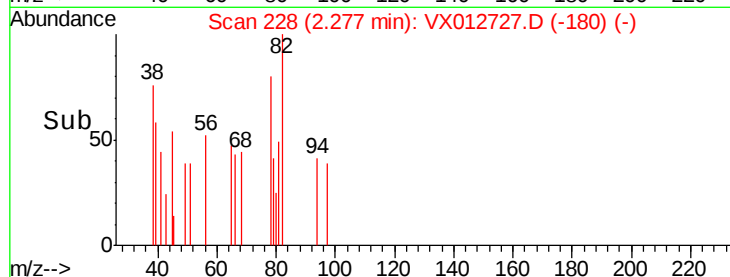
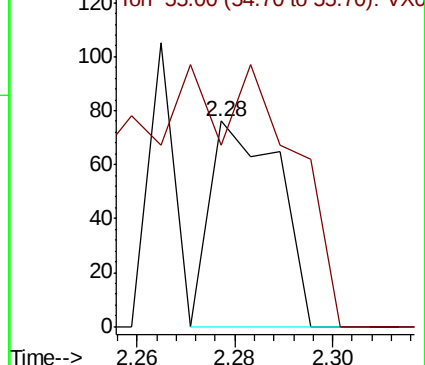
56 100

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



#14

Allyl chloride

Concen: 1.946 ug/l

RT: 2.60 min Scan# 281

Delta R.T. -0.12 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

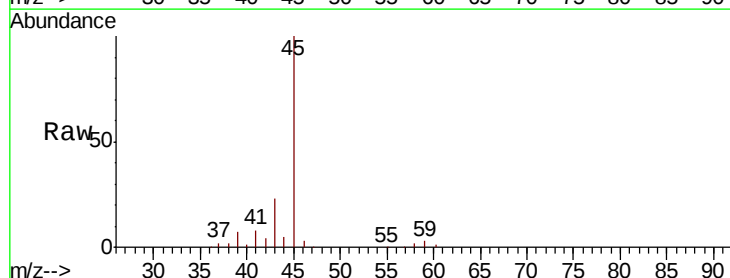
Tgt Ion: 41 Resp: 6816

Ion Ratio Lower Upper

41 100

39 84.0 51.3 76.9#

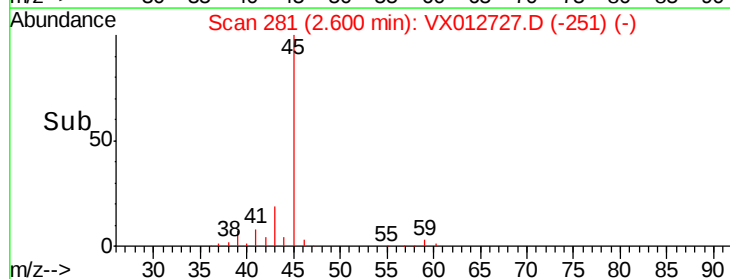
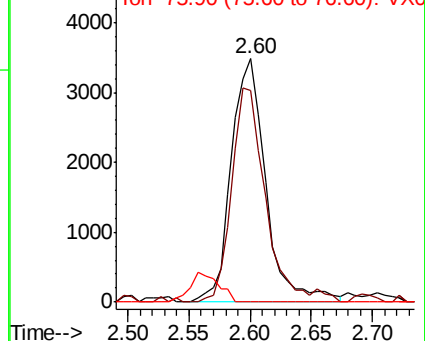
76 0.0 22.6 33.8#

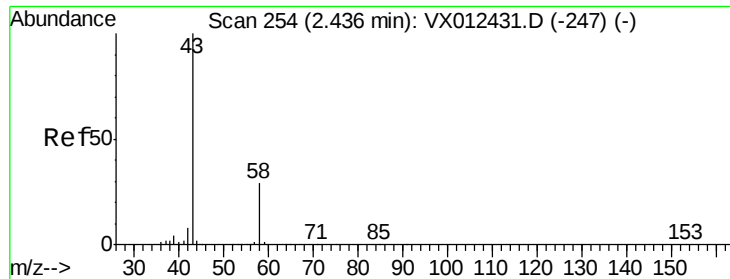


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 8.814 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

Instrument :

MSVOA_X

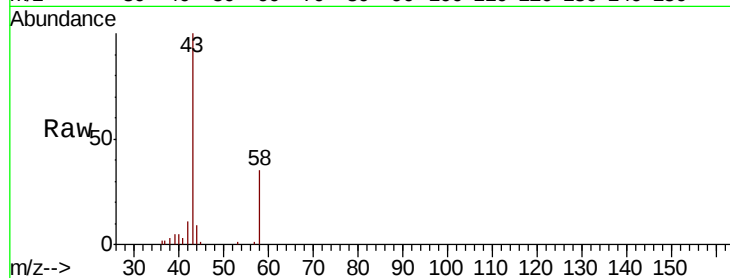
ClientSampleId :

Tot Ion: 43 Resp: 11161

Ion Ratio Lower Upper

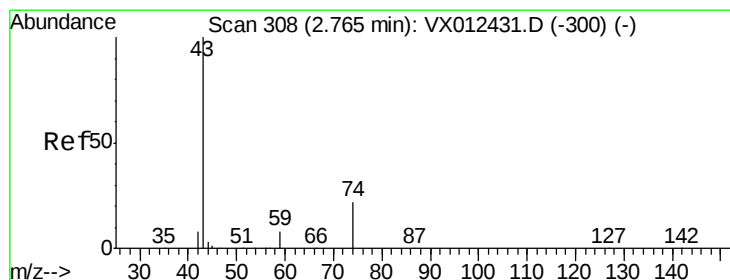
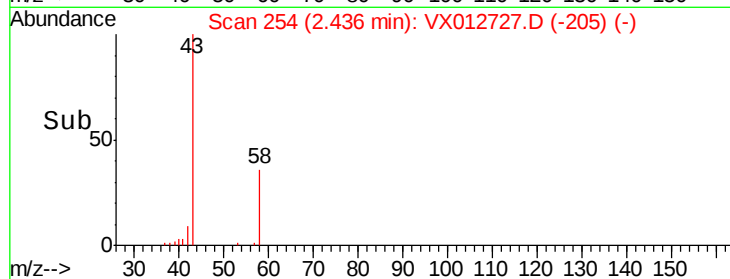
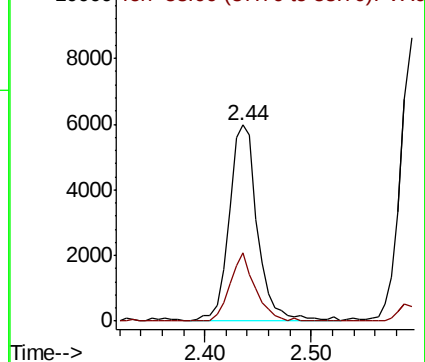
43 100

58 34.9 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 5.848 ug/l

RT: 2.60 min Scan# 281

Delta R.T. -0.16 min

Lab File: VX012727.D

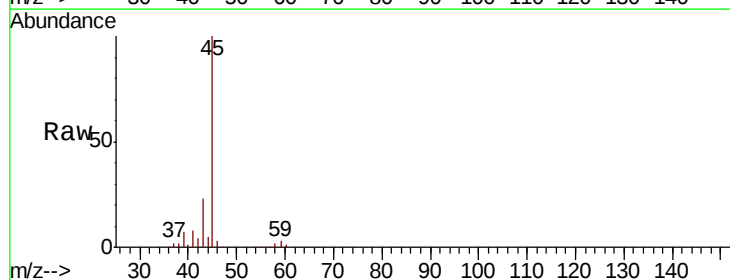
Acq: 01 Oct 2019 12:54

Tgt Ion: 43 Resp: 17436

Ion Ratio Lower Upper

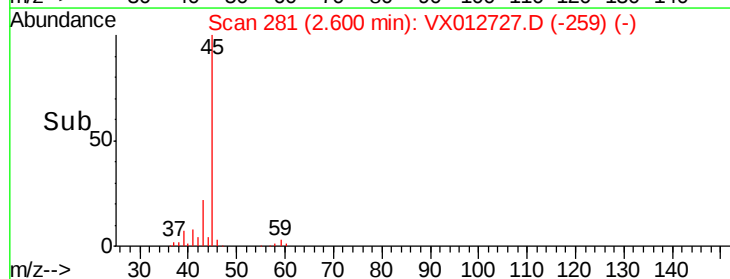
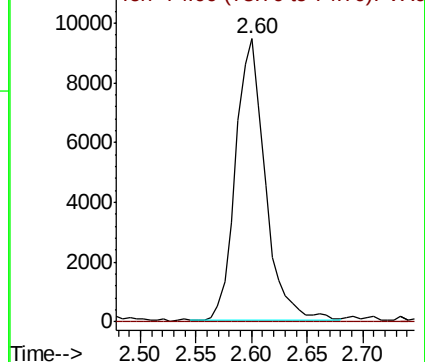
43 100

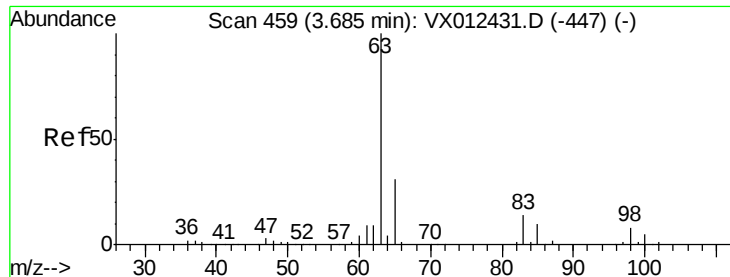
74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#24

1,1-Dichloroethane

Concen: 1.439 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

Instrument :

MSVOA_X

ClientSampled :

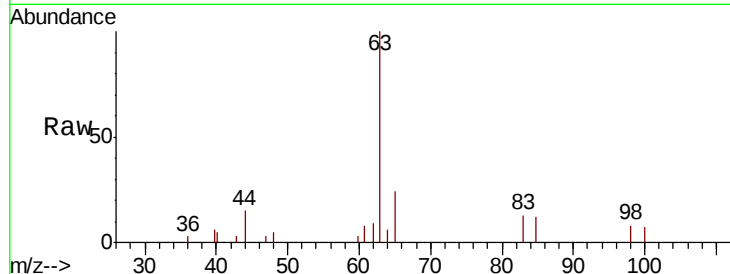
Tot Ion: 63 Resp: 5293

Ion Ratio Lower Upper

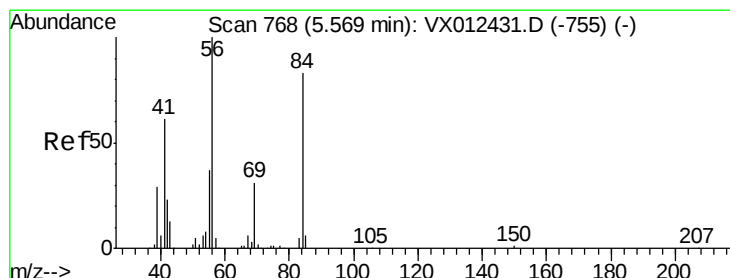
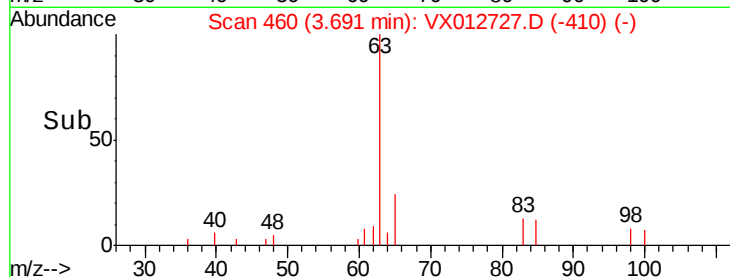
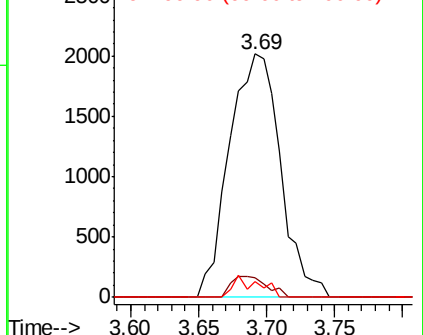
63 100

98 8.3 3.9 11.7

100 6.6 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



#31

Cyclohexane

Concen: 1.210 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.07 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

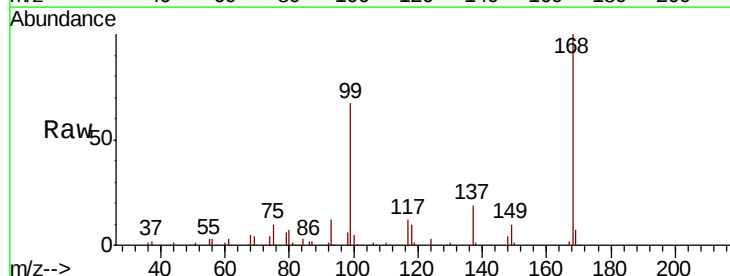
Tgt Ion: 56 Resp: 4025

Ion Ratio Lower Upper

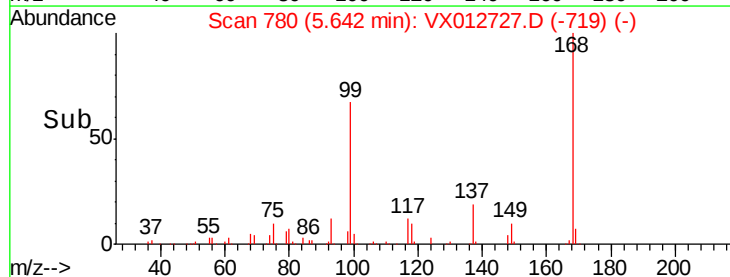
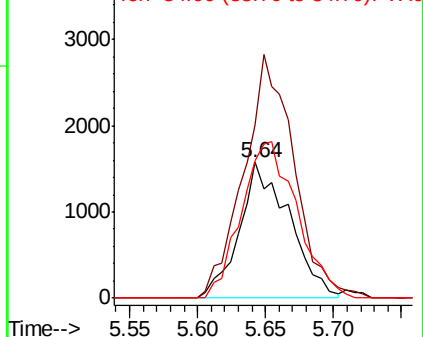
56 100

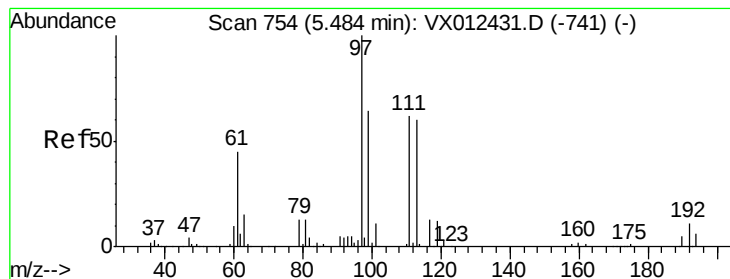
69 127.7 25.0 37.6#

84 101.3 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





#32

1,1,1-Trichloroethane

Concen: 3.429 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

Instrument :

MSVOA_X

ClientSampleId :

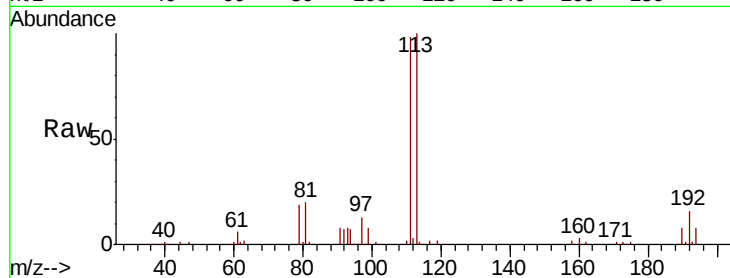
Tot Ion: 97 Resp: 11437

Ion Ratio Lower Upper

97 100

99 65.0 51.3 76.9

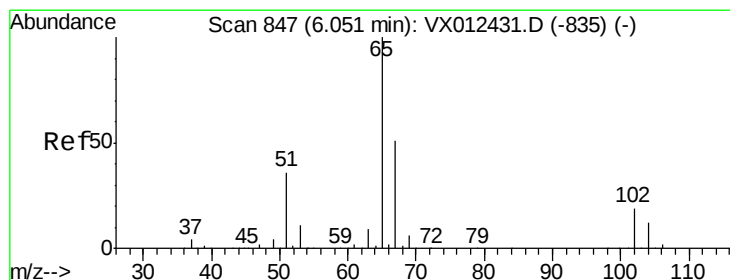
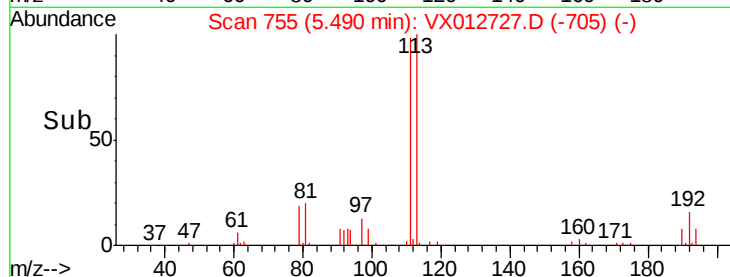
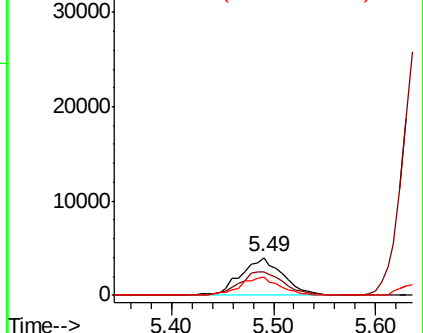
61 44.8 36.1 54.1



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.291 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012727.D

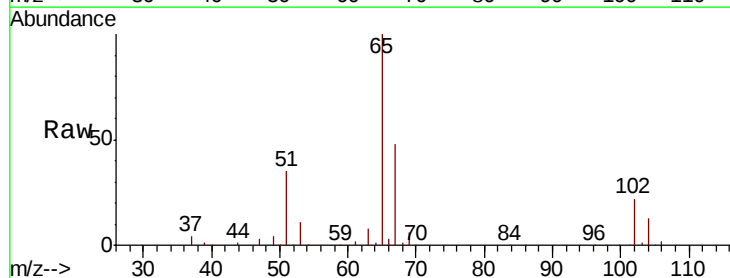
Acq: 01 Oct 2019 12:54

Tgt Ion: 65 Resp: 115441

Ion Ratio Lower Upper

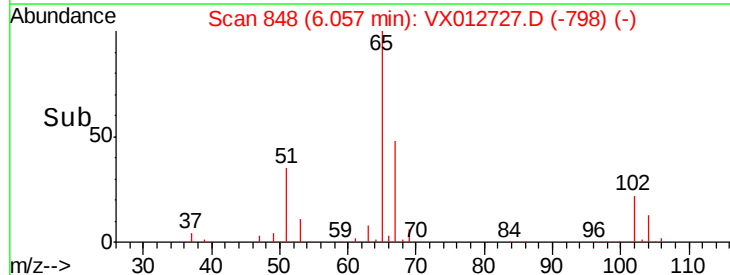
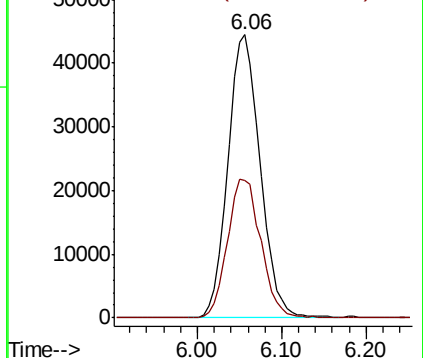
65 100

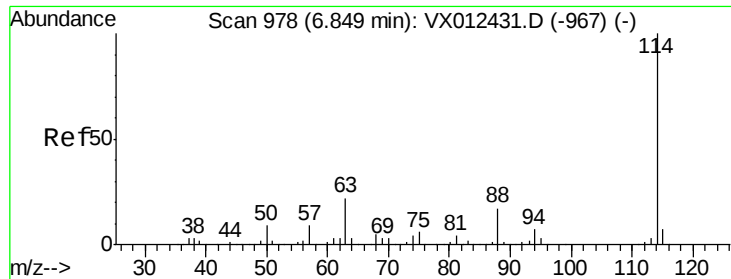
67 50.7 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

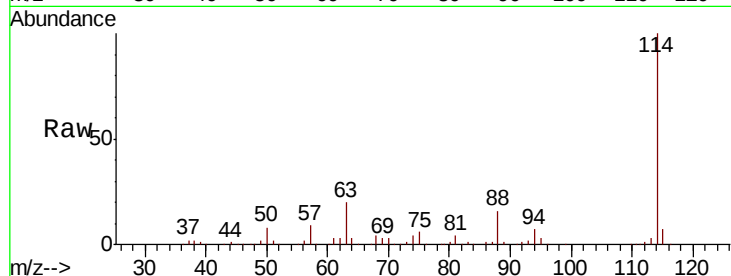




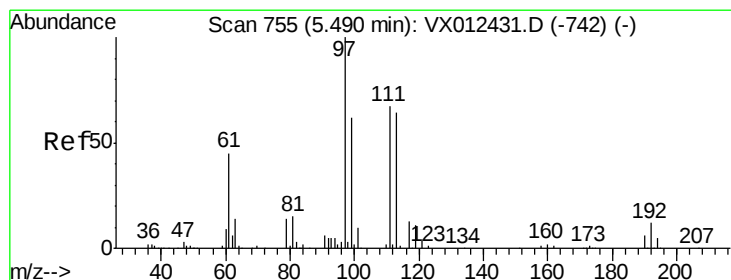
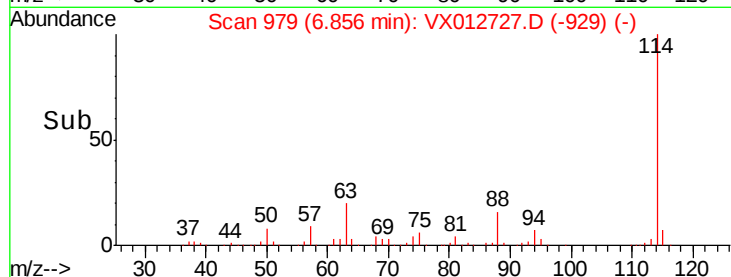
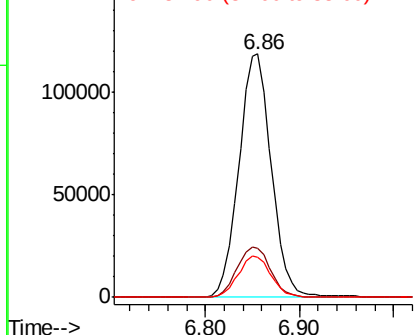
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 979
Delta R.T. 0.01 min
Lab File: VX012727.D
Acq: 01 Oct 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 283734
Ion Ratio Lower Upper
114 100
63 20.2 0.0 43.2
88 16.2 0.0 33.2

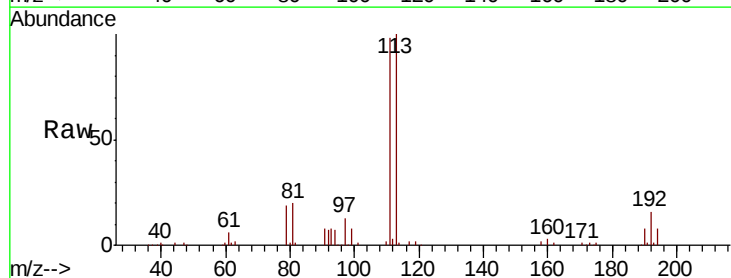


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

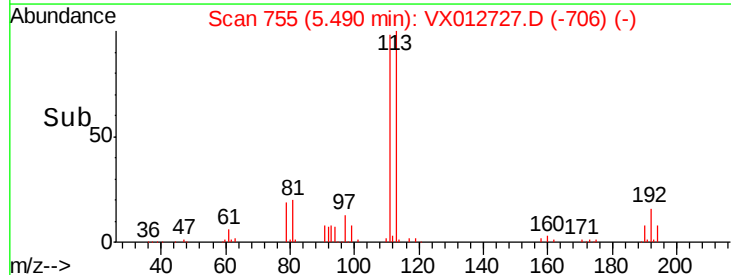
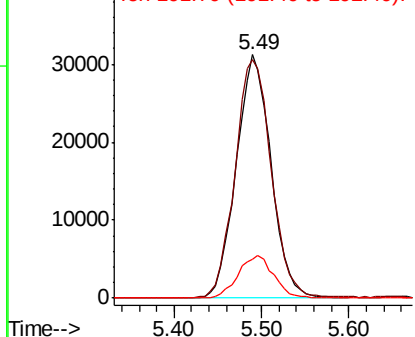


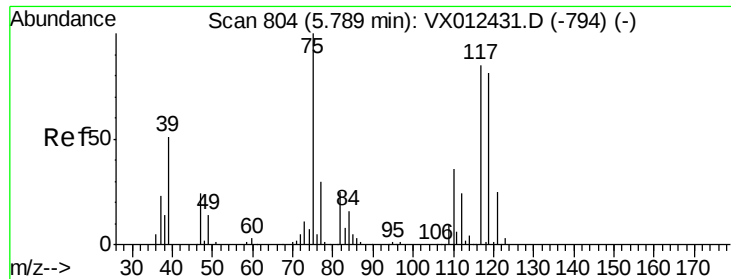
#35
Dibromofluoromethane
Concen: 51.049 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX012727.D
Acq: 01 Oct 2019 12:54

Tgt Ion:113 Resp: 86261
Ion Ratio Lower Upper
113 100
111 102.3 83.4 125.2
192 17.8 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

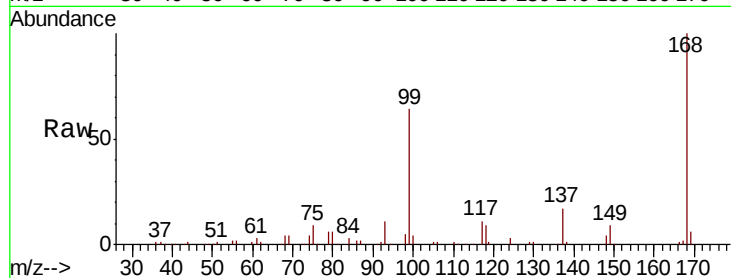




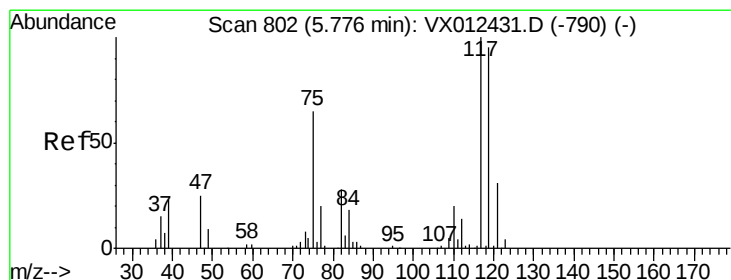
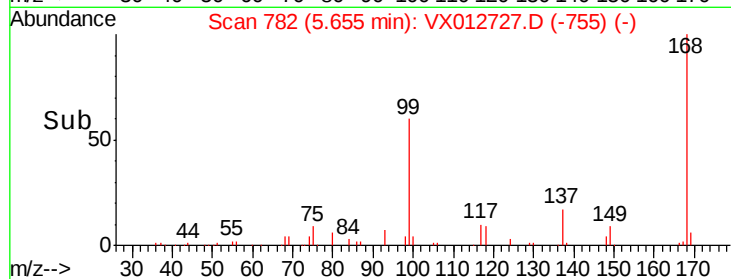
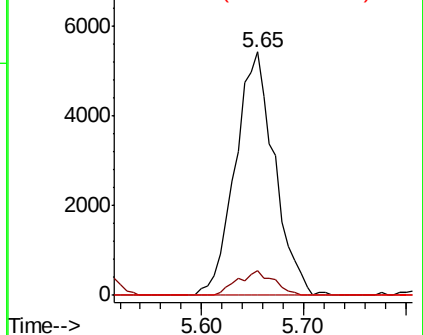
#36
 1,1-Dichloropropene
 Concen: 5.279 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012727.D
 Acq: 01 Oct 2019 12:54

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	75	Resp	14437
Ion Ratio	100	Lower	Upper
75	100		
110	9.4	16.7	50.0#
77	0.0	24.2	36.2#

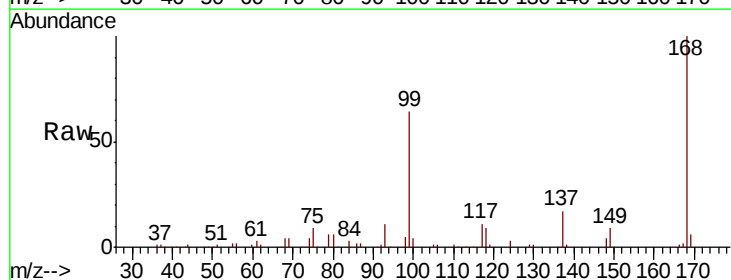


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

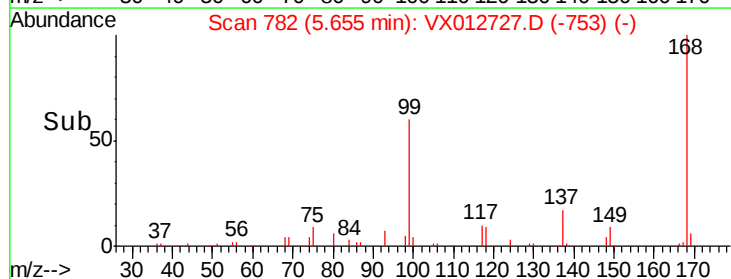
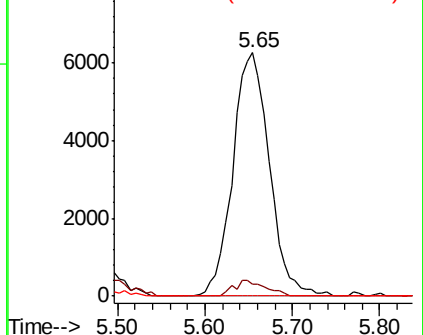


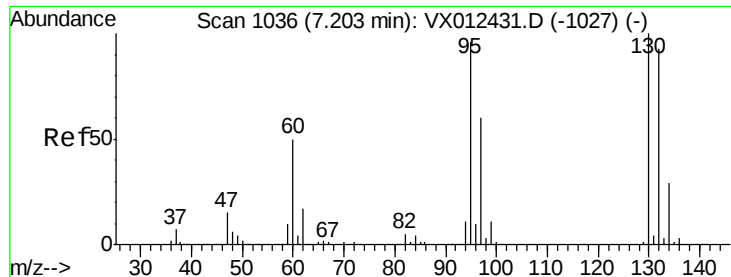
#38
 Carbon Tetrachloride
 Concen: 6.545 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX012727.D
 Acq: 01 Oct 2019 12:54

Tgt Ion	117	Resp	18184
Ion Ratio	100	Lower	Upper
117	100		
119	4.7	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

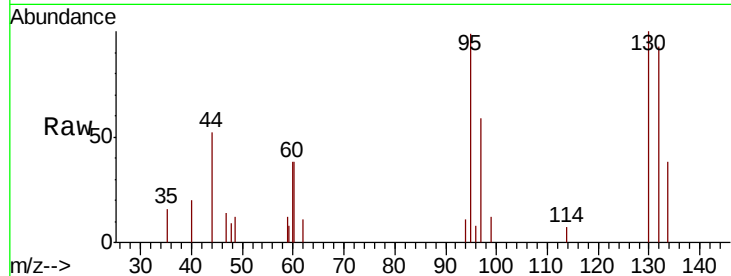




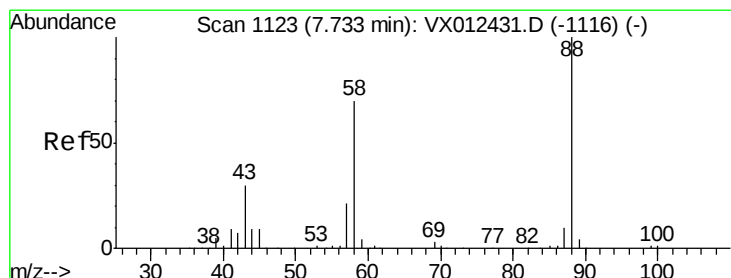
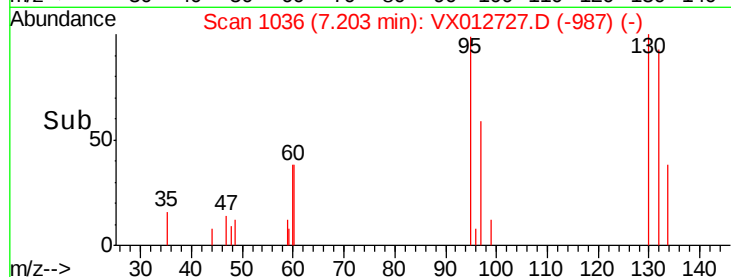
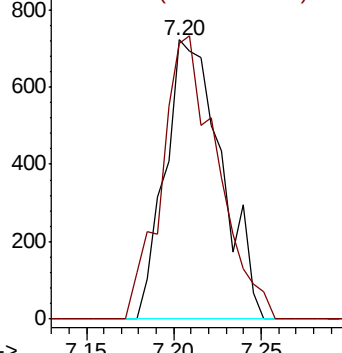
#44
 Trichloroethene
 Concen: 0.781 ug/l
 RT: 7.20 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: VX012727.D
 Acq: 01 Oct 2019 12:54

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:130 Resp: 1607
 Ion Ratio Lower Upper
 130 100
 95 98.8 0.0 193.0

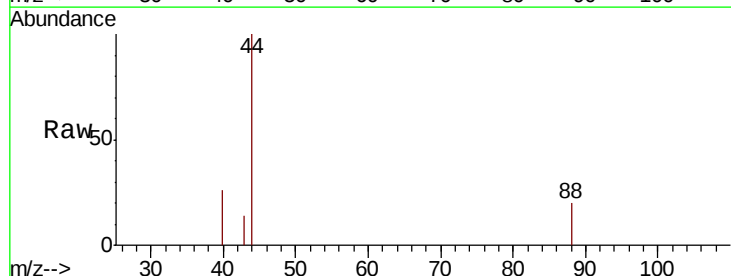


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

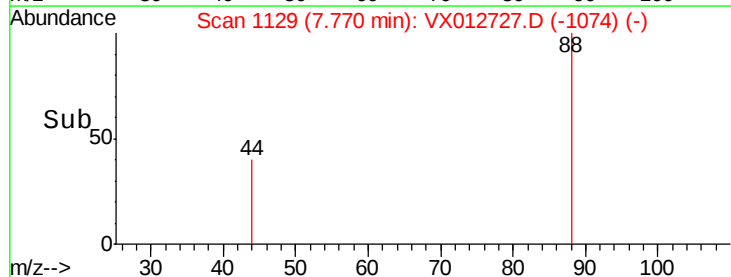
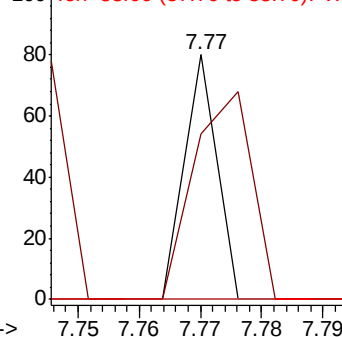


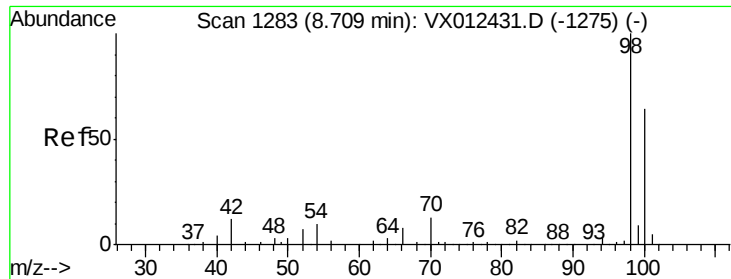
#49
 1,4-Dioxane
 Concen: 0.499 ug/l
 RT: 7.77 min Scan# 1129
 Delta R.T. 0.04 min
 Lab File: VX012727.D
 Acq: 01 Oct 2019 12:54

Tgt Ion: 88 Resp: 29
 Ion Ratio Lower Upper
 88 100
 43 155.2 29.4 44.0#
 58 0.0 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





#50

Toluene-d8

Concen: 51.343 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

Instrument :

MSVOA_X

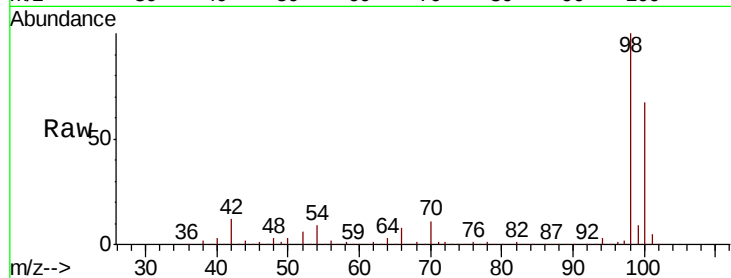
ClientSampleId :

Tot Ion: 98 Resp: 334108

Ion Ratio Lower Upper

98 100

100 67.5 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

150000

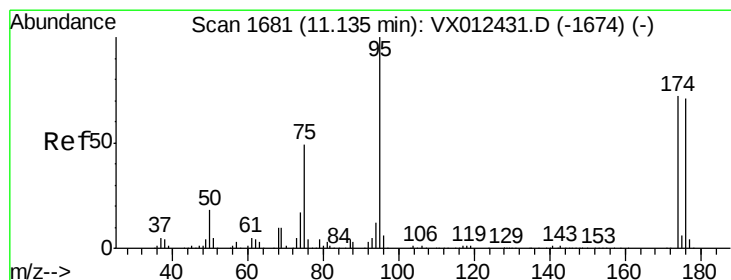
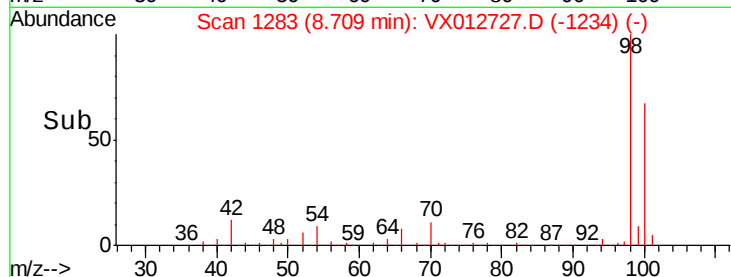
100000

50000

0

Time-->

8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 41.071 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

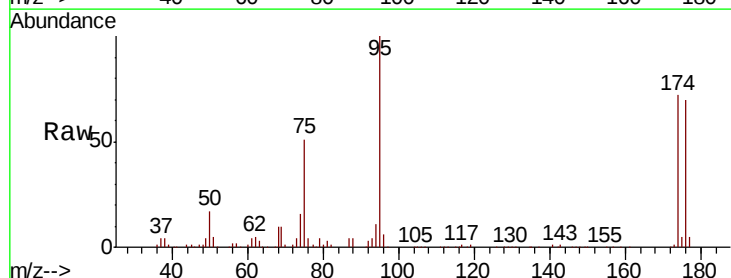
Tgt Ion: 95 Resp: 105089

Ion Ratio Lower Upper

95 100

174 69.8 0.0 140.0

176 66.9 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

11.14

100000

80000

60000

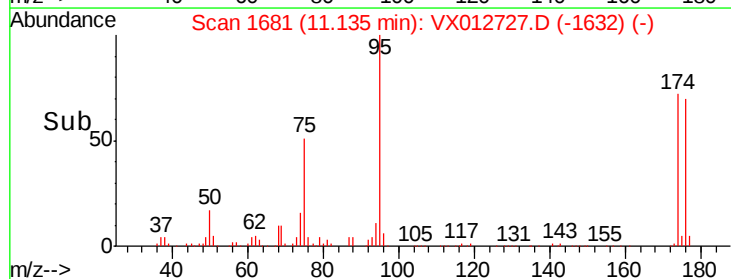
40000

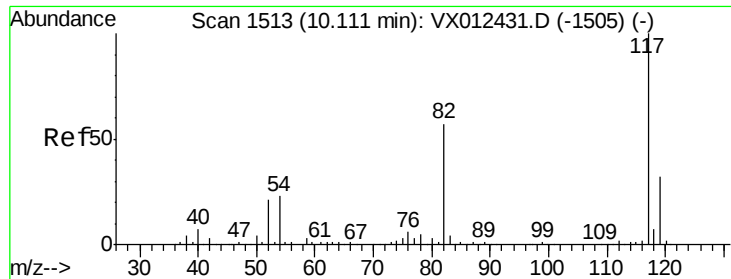
20000

0

Time-->

11.10 11.20

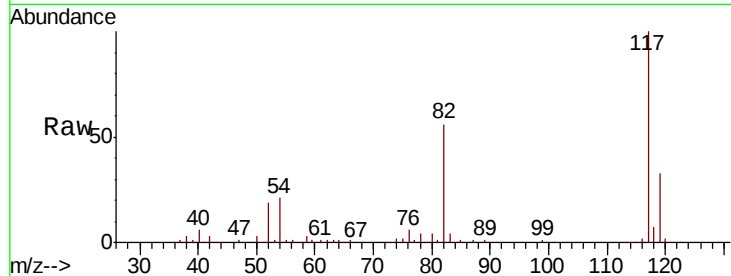




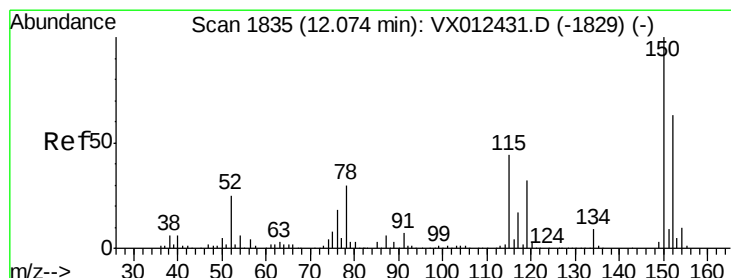
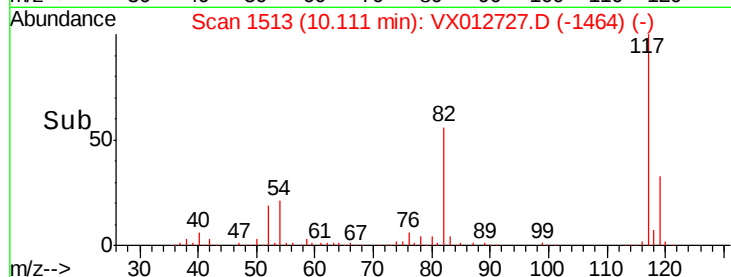
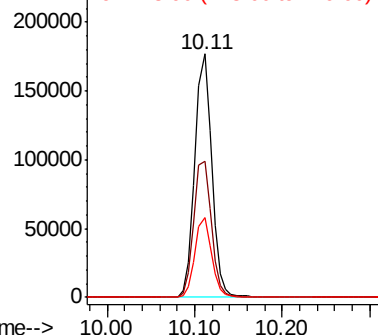
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012727.D
Acq: 01 Oct 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 237209
Ion Ratio Lower Upper
117 100
82 56.0 45.9 68.9
119 32.5 25.3 37.9

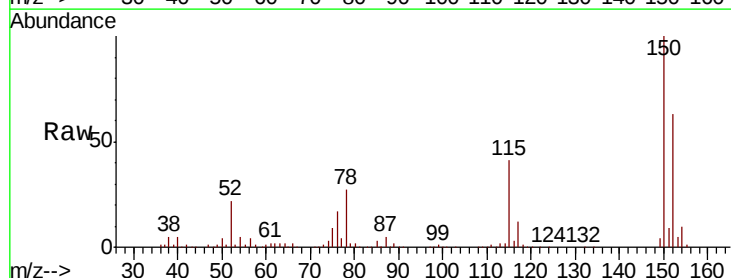


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

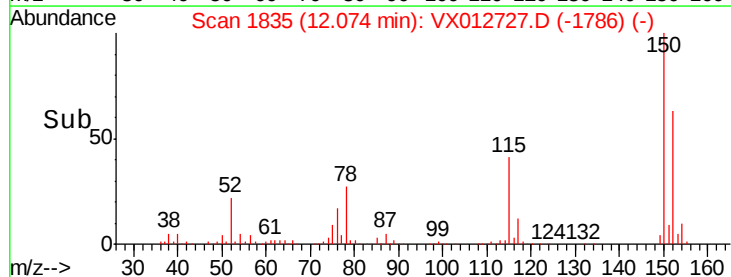
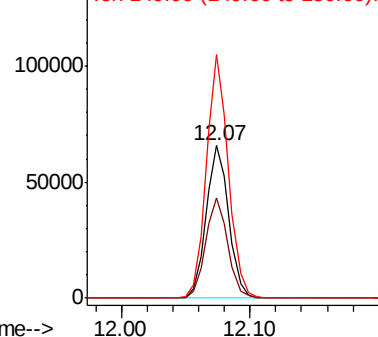


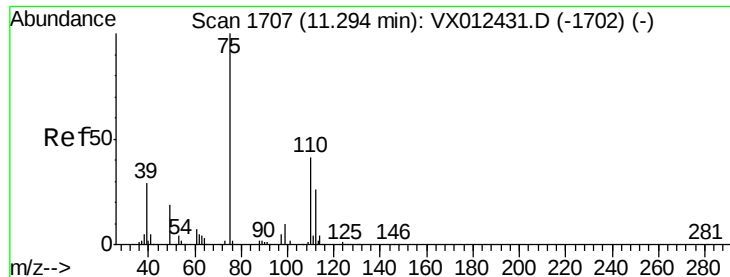
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012727.D
Acq: 01 Oct 2019 12:54

Tgt Ion:152 Resp: 80310
Ion Ratio Lower Upper
152 100
115 65.0 44.1 132.3
150 155.4 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: 25.881 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

Instrument :

MSVOA_X

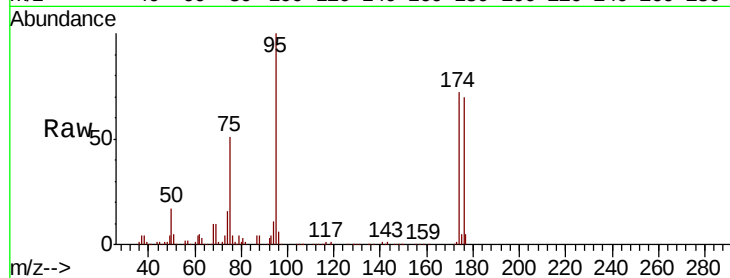
ClientSampled :

Tot Ion: 75 Resp: 54981

Ion Ratio Lower Upper

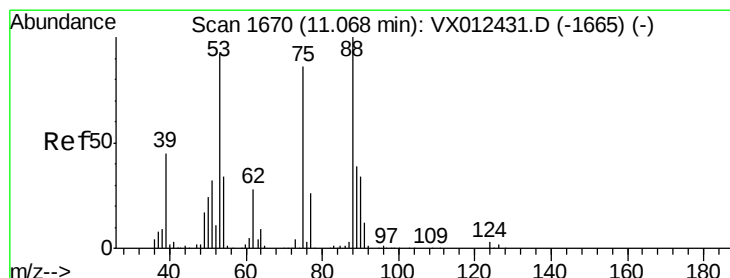
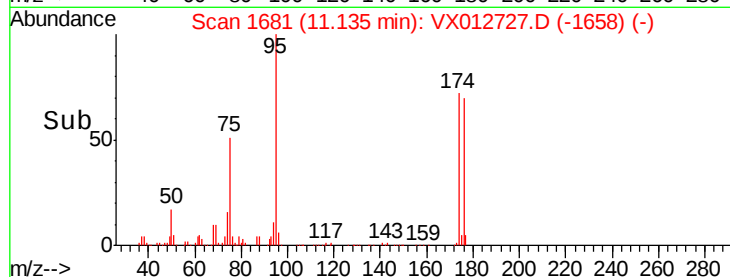
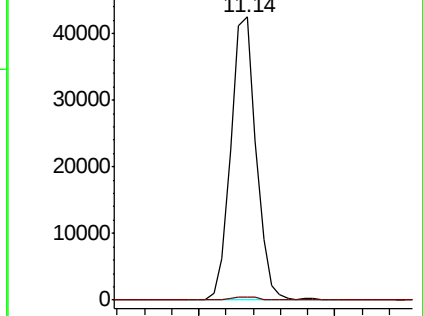
75 100

77 1.4 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: 74.168 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012727.D

Acq: 01 Oct 2019 12:54

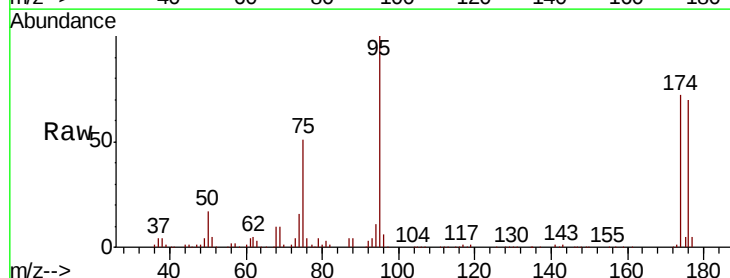
Tgt Ion: 75 Resp: 54981

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#



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

