

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081219\
 Data File : VX011510.D
 Acq On : 13 Aug 2019 02:23
 Operator : JC/SP
 Sample : K4230-23
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-D2-(0)

Quant Time: Aug 13 07:47:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	179055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	272414	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	247796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109681	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	100621	55.80	ug/l	0.00
Spiked Amount			Recovery	=	111.60%	
35) Dibromofluoromethane	5.49	113	84735	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
50) Toluene-d8	8.71	98	323975	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
62) 4-Bromofluorobenzene	11.13	95	105826	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	

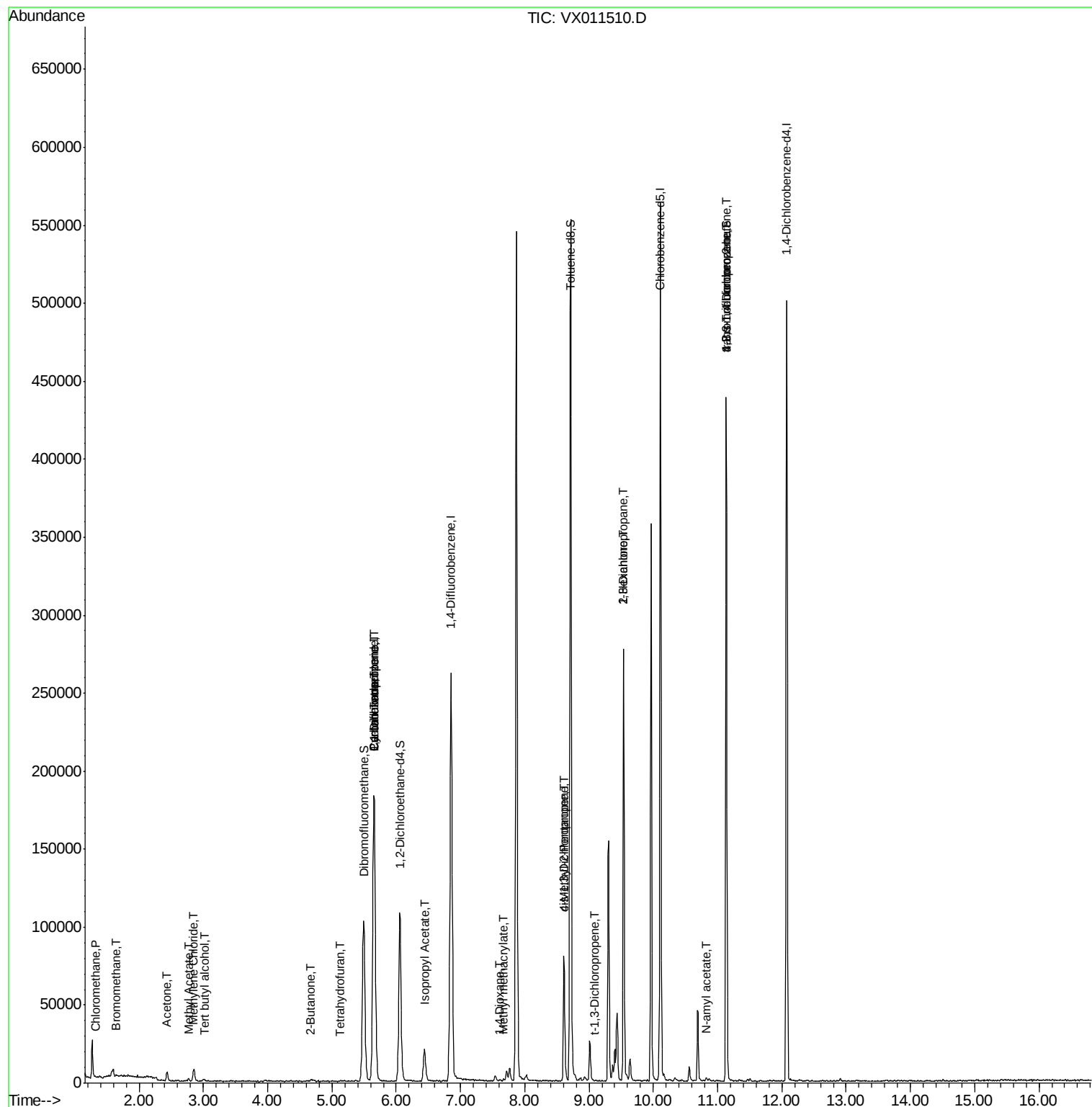
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	359	0.231	ug/l #	86
5) Bromomethane	1.65	94	497	0.408	ug/l #	64
6) Chloroethane	1.73	64	243	Below Cal	#	43
11) Tert butyl alcohol	3.02	59	734	2.064	ug/l	97
16) Acetone	2.43	43	6377	7.430	ug/l	99
18) Methyl Acetate	2.77	43	1726	0.880	ug/l	99
20) Methylene Chloride	2.85	84	3655	1.944	ug/l	93
25) 2-Butanone	4.68	43	865	0.708	ug/l	100
29) Tetrahydrofuran	5.12	42	232	0.310	ug/l #	61
31) Cyclohexane	5.65	56	3662	1.577	ug/l #	30
36) 1,1-Dichloropropene	5.65	75	12242	5.147	ug/l #	48
38) Carbon Tetrachloride	5.65	117	17519	7.321	ug/l #	14
43) Isopropyl Acetate	6.44	43	27169	7.123	ug/l	99
48) Methyl methacrylate	7.68	41	1530	0.852	ug/l #	10
49) 1,4-Dioxane	7.62	88	19	0.365	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	28132	11.428	ug/l #	50
53) t-1,3-Dichloropropene	9.09	75	23	2.847	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	13127	4.946	ug/l #	68
57) 1,3-Dichloropropane	9.54	76	2436	0.798	ug/l #	41
59) 2-Hexanone	9.54	43	31759	16.657	ug/l #	50
74) N-amyl acetate	10.82	43	1184	0.437	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	54709	27.390	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	54709	71.043	ug/l #	10

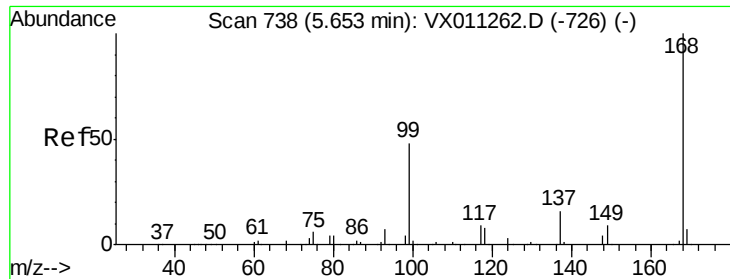
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 13 07:47:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

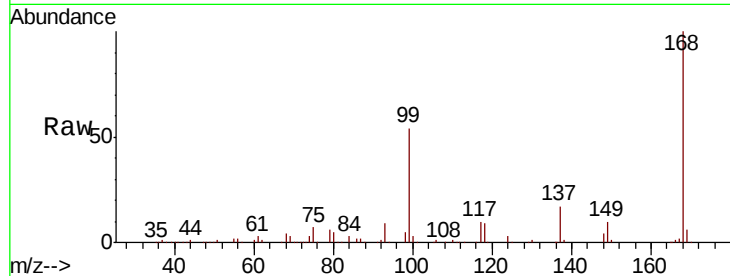
2S-D2-(0)

Tgt Ion:168 Resp: 179055

Ion Ratio Lower Upper

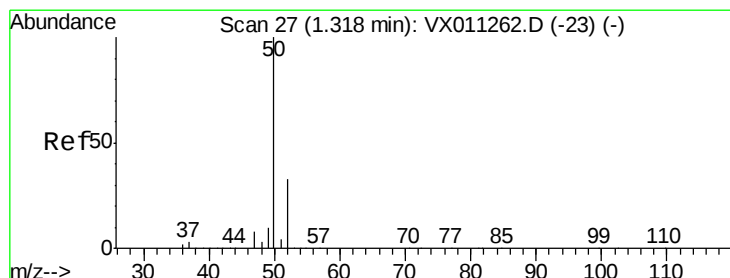
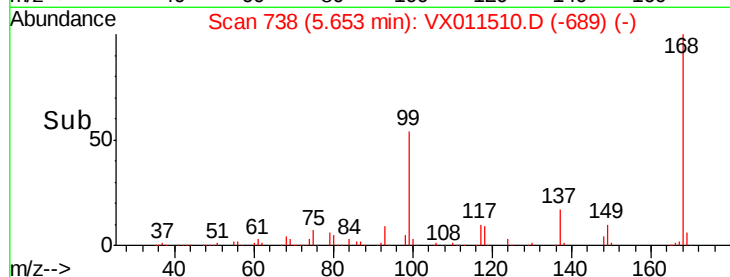
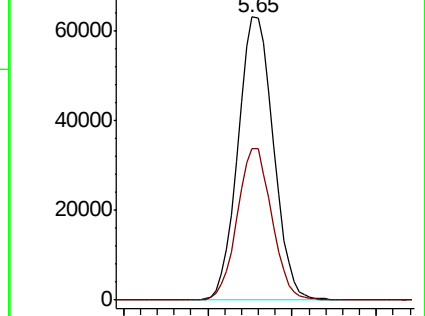
168 100

99 53.4 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.231 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX011510.D

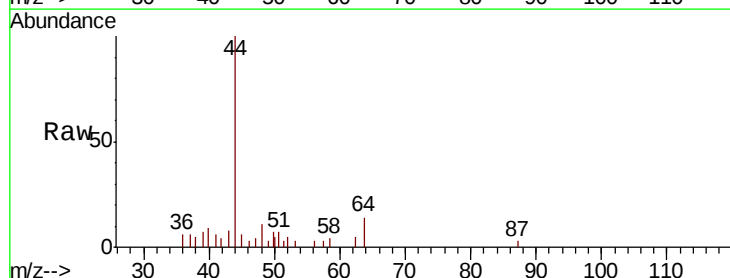
Acq: 13 Aug 2019 02:23

Tgt Ion: 50 Resp: 359

Ion Ratio Lower Upper

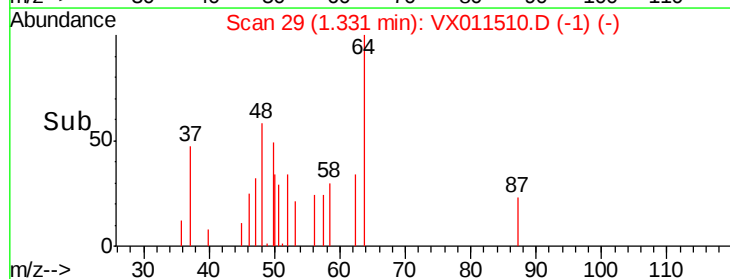
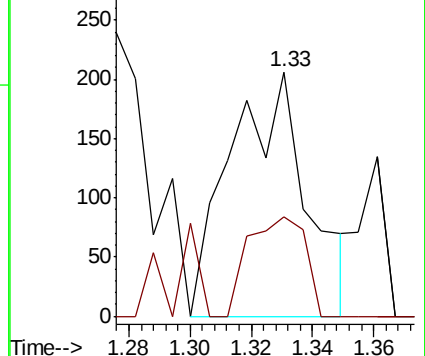
50 100

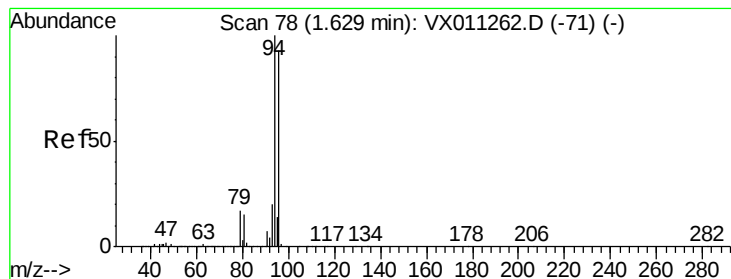
52 40.8 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.408 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampled :

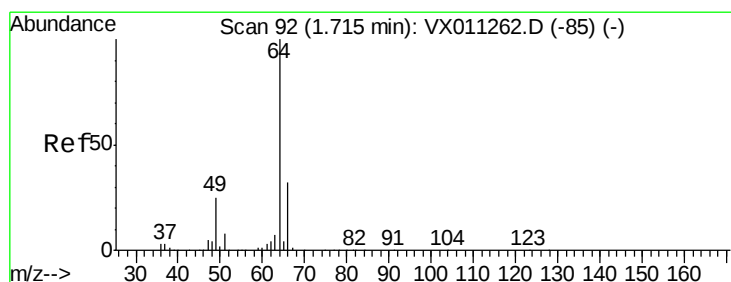
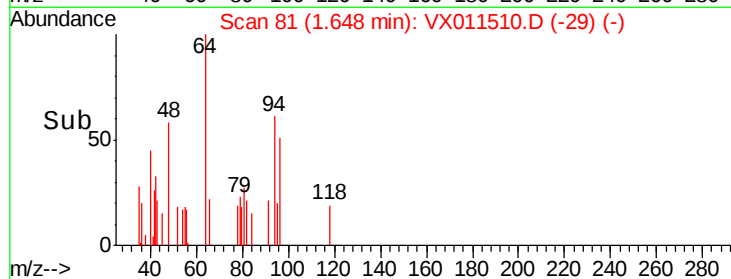
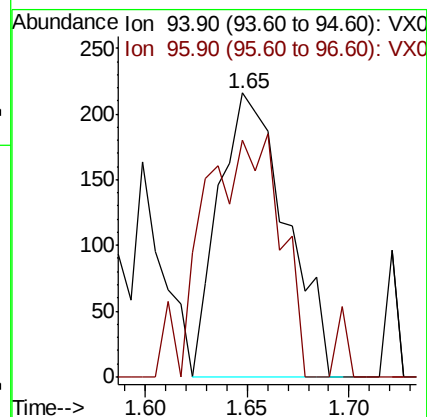
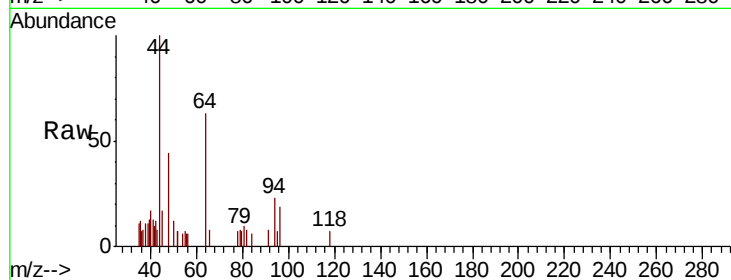
2S-D2-(0)

Tgt Ion: 94 Resp: 497

Ion Ratio Lower Upper

94 100

96 58.8 74.6 112.0#



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011510.D

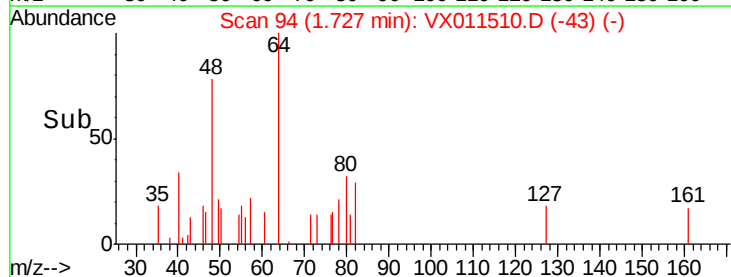
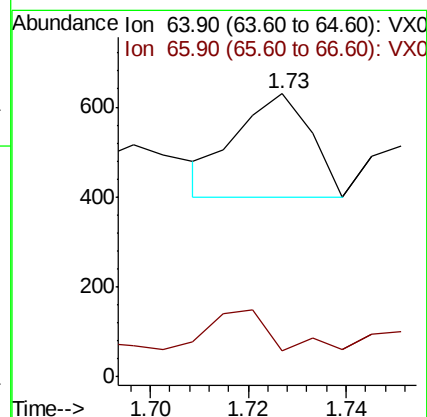
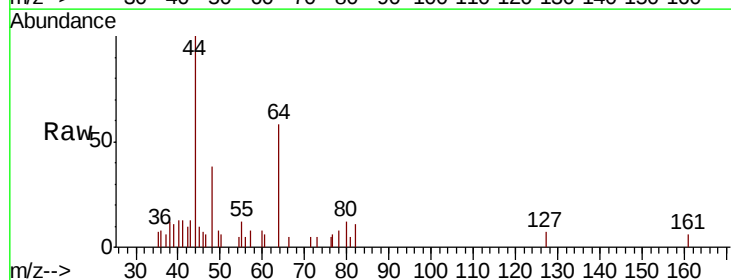
Acq: 13 Aug 2019 02:23

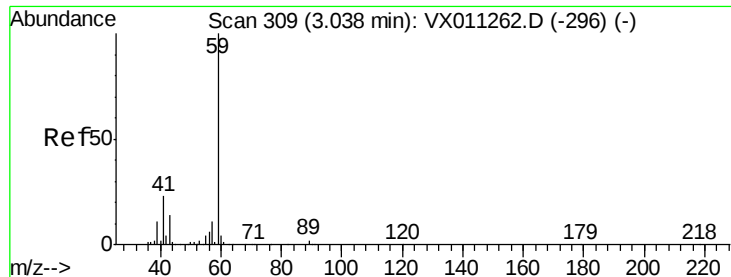
Tgt Ion: 64 Resp: 243

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#

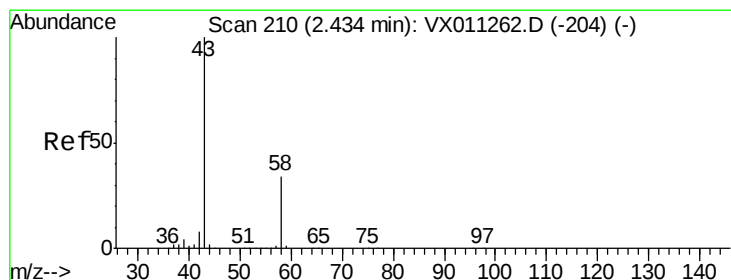
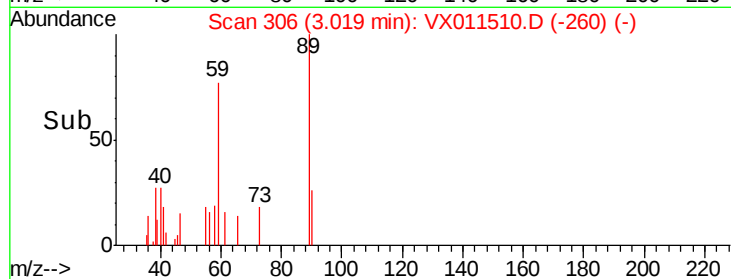
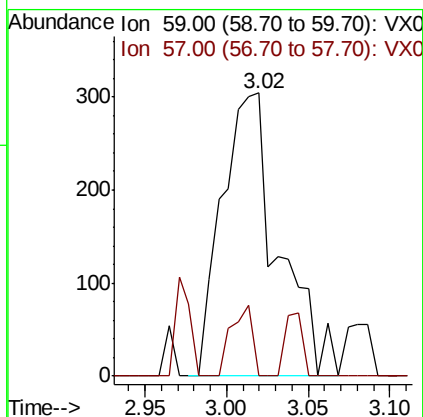
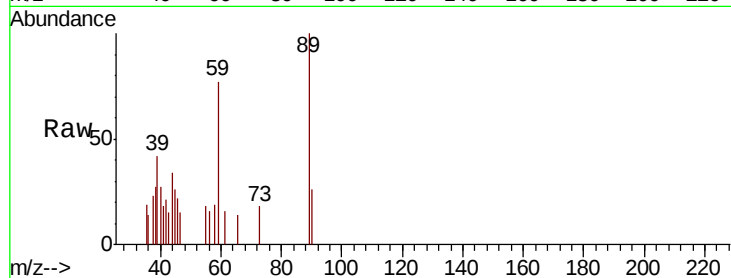




#11
Tert butyl alcohol
Concen: 2.064 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

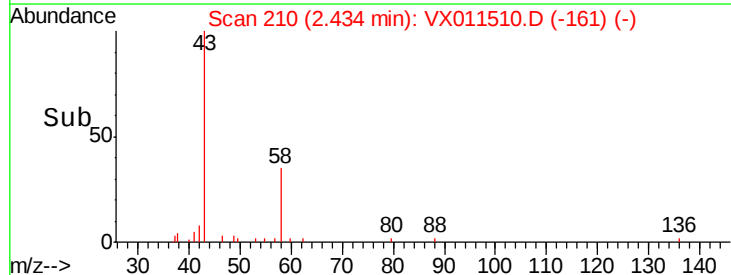
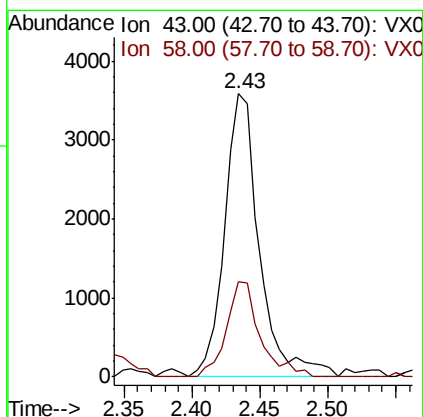
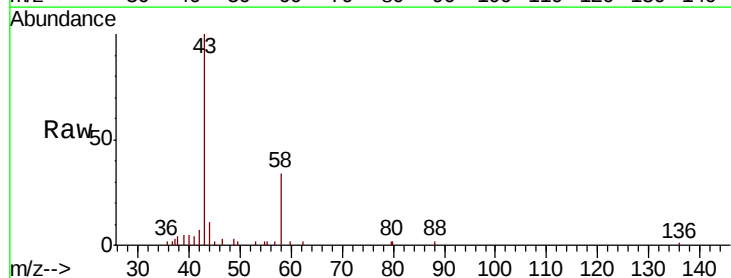
Instrument :
MSVOA_X
ClientSampleId :
2S-D2-(0)

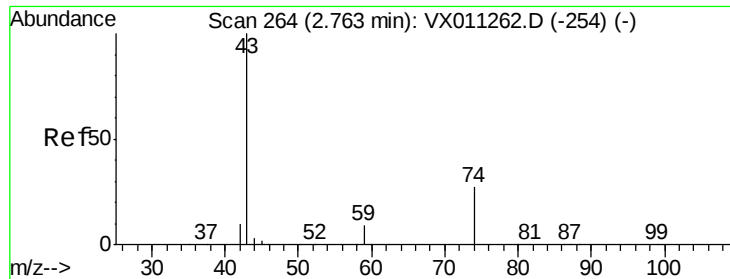
Tgt Ion: 59 Resp: 734
Ion Ratio Lower Upper
59 100
57 9.3 8.3 12.5



#16
Acetone
Concen: 7.430 ug/l
RT: 2.43 min Scan# 210
Delta R.T. 0.00 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

Tgt Ion: 43 Resp: 6377
Ion Ratio Lower Upper
43 100
58 33.6 27.4 41.0

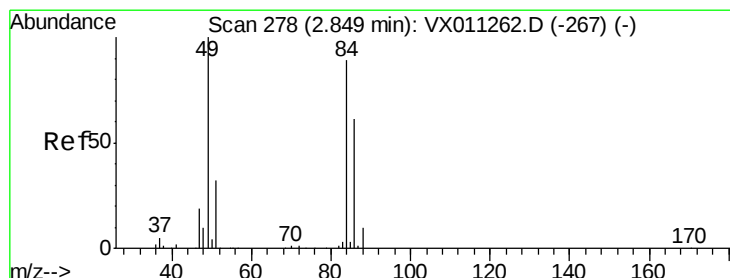
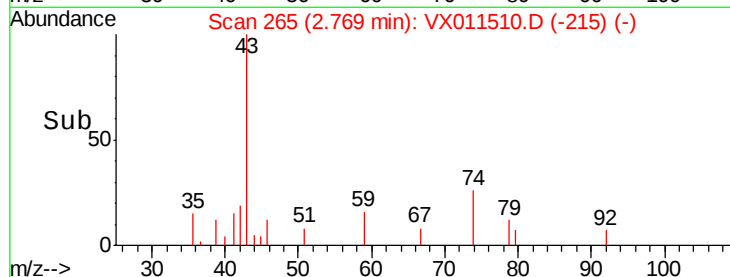
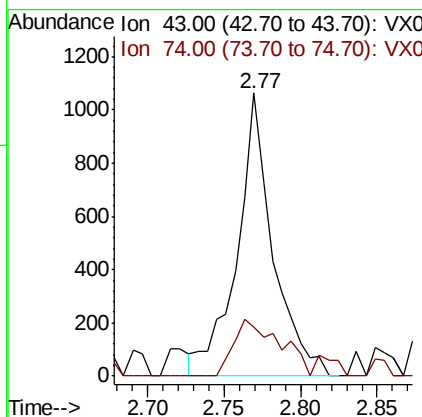
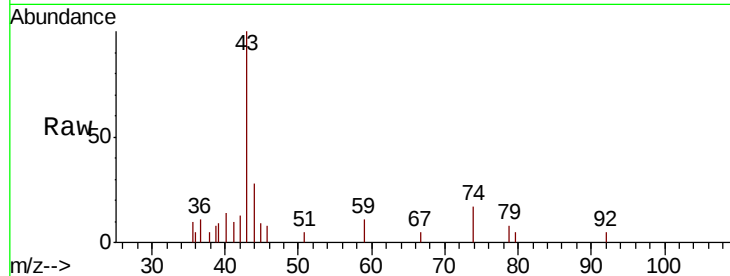




#18
Methyl Acetate
Concen: 0.880 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

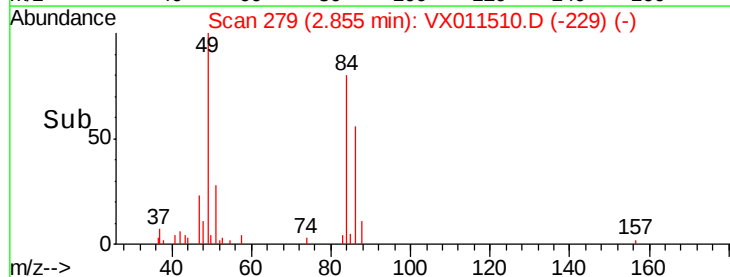
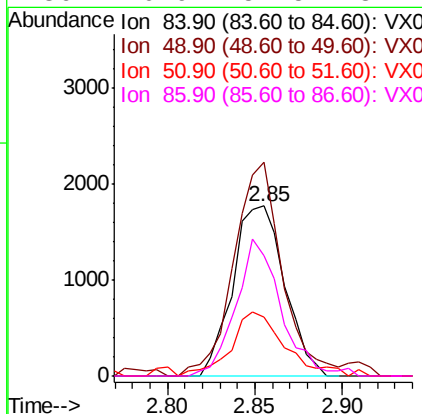
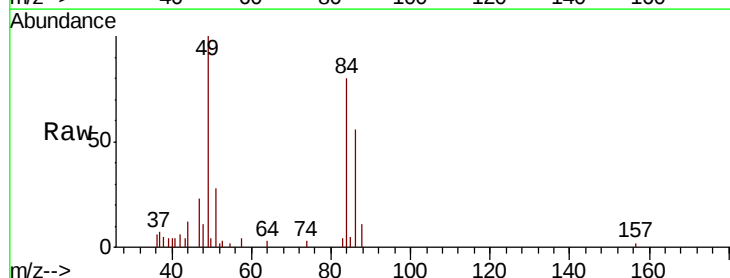
Instrument :
MSVOA_X
ClientSampleId :
2S-D2-(0)

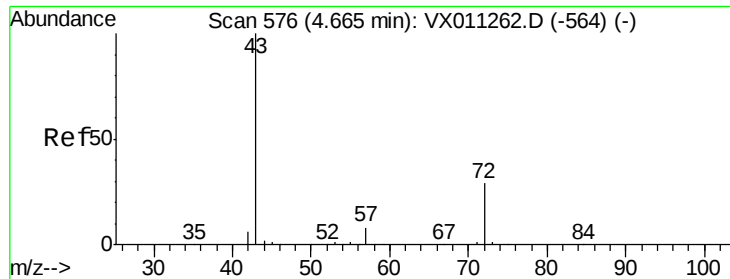
Tgt Ion: 43 Resp: 1726
Ion Ratio Lower Upper
43 100
74 25.9 21.0 31.6



#20
Methylene Chloride
Concen: 1.944 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

Tgt Ion: 84 Resp: 3655
Ion Ratio Lower Upper
84 100
49 120.5 89.3 133.9
51 31.3 28.3 42.5
86 70.9 54.5 81.7





#25

2-Butanone

Concen: 0.708 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

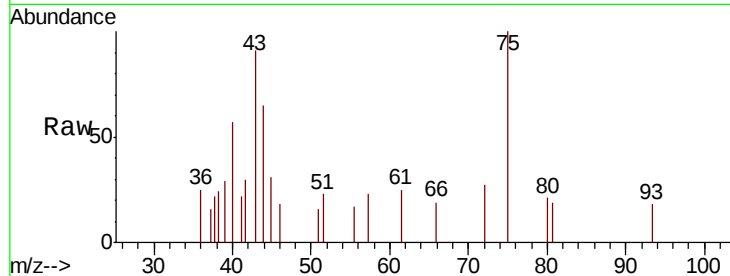
2S-D2-(0)

Tgt Ion: 43 Resp: 865

Ion Ratio Lower Upper

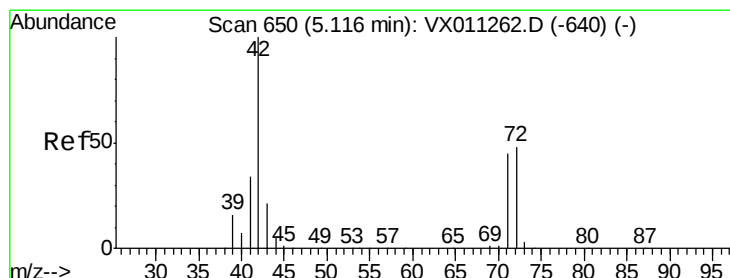
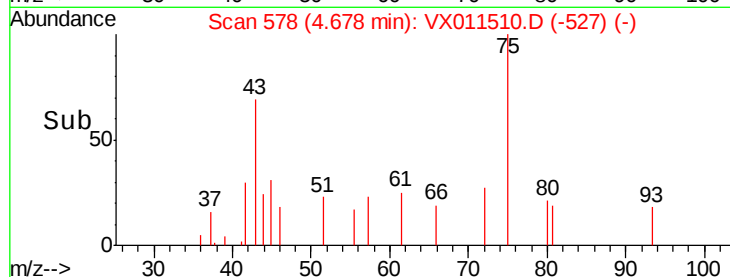
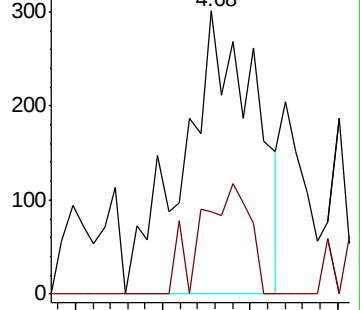
43 100

72 29.2 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.310 ug/l

RT: 5.12 min Scan# 651

Delta R.T. 0.01 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

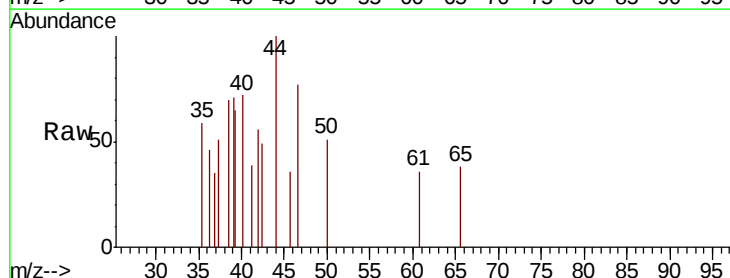
Tgt Ion: 42 Resp: 232

Ion Ratio Lower Upper

42 100

72 42.7 39.9 59.9

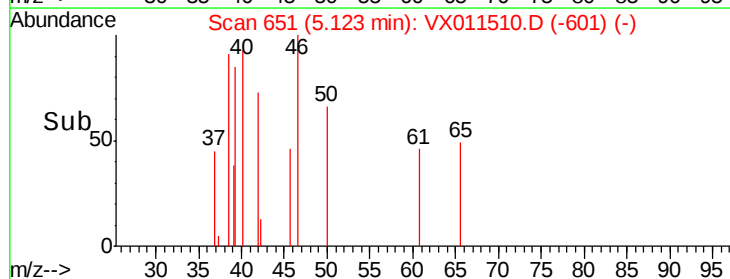
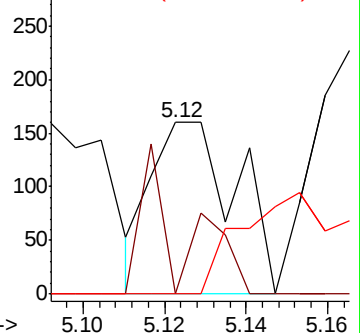
71 0.0 36.9 55.3#

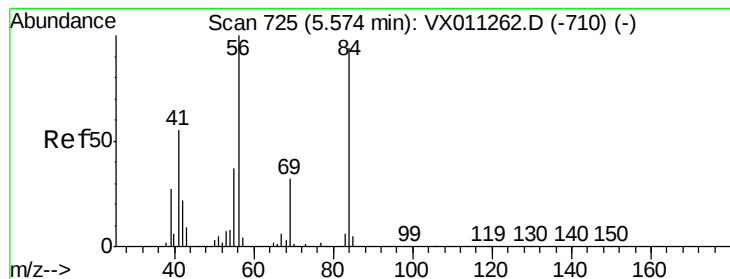


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.577 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampled :

2S-D2-(0)

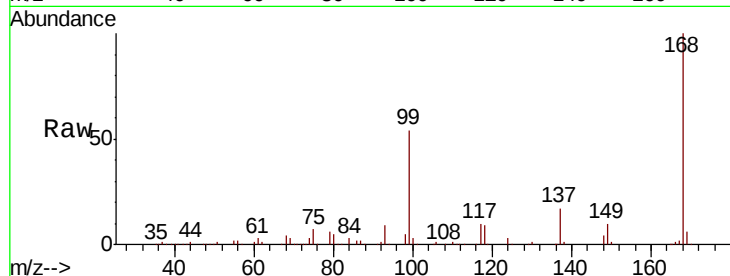
Tgt Ion: 56 Resp: 3662

Ion Ratio Lower Upper

56 100

69 132.2 25.5 38.3#

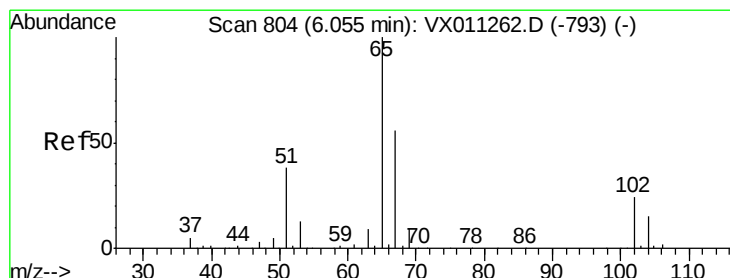
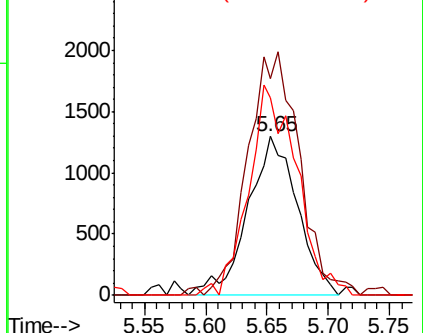
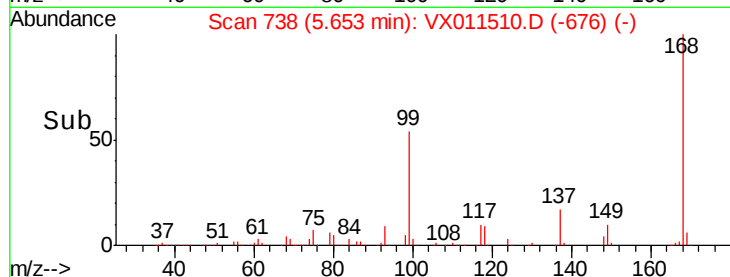
84 124.6 75.0 112.4#



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: 55.802 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011510.D

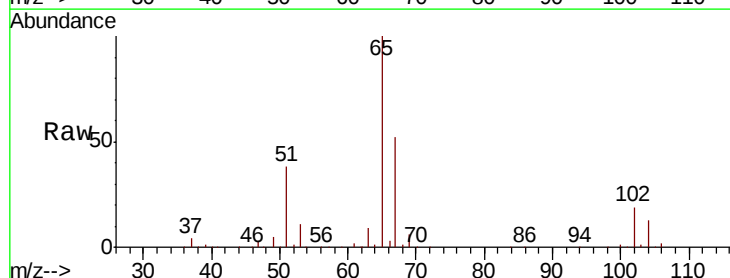
Acq: 13 Aug 2019 02:23

Tgt Ion: 65 Resp: 100621

Ion Ratio Lower Upper

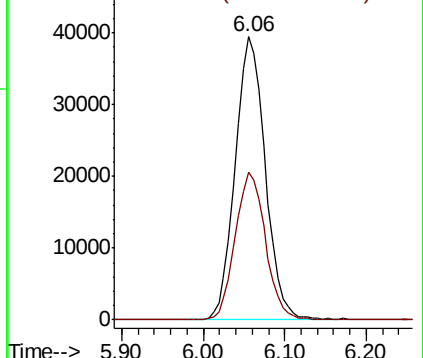
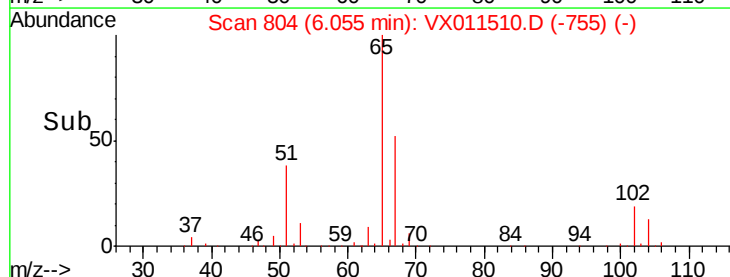
65 100

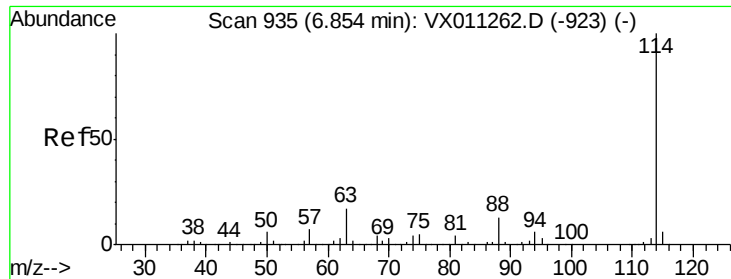
67 52.5 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

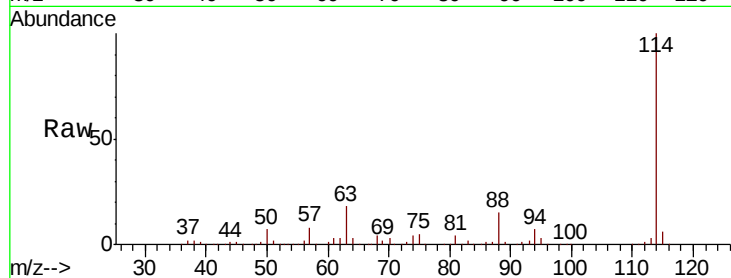




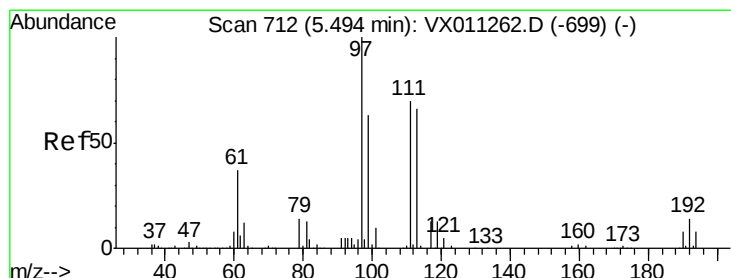
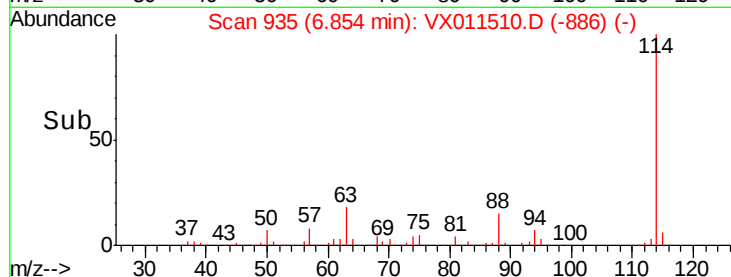
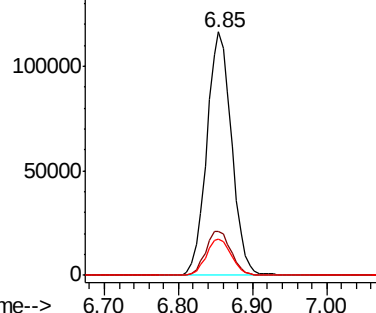
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. 0.00 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

Instrument :
MSVOA_X
ClientSampleId :
2S-D2-(0)

Tgt Ion:114 Resp: 272414
Ion Ratio Lower Upper
114 100
63 18.1 0.0 34.0
88 14.7 0.0 26.4

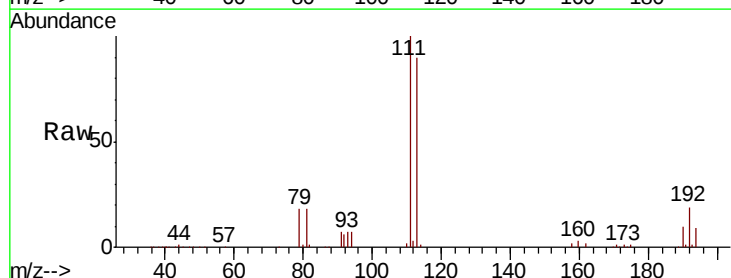


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

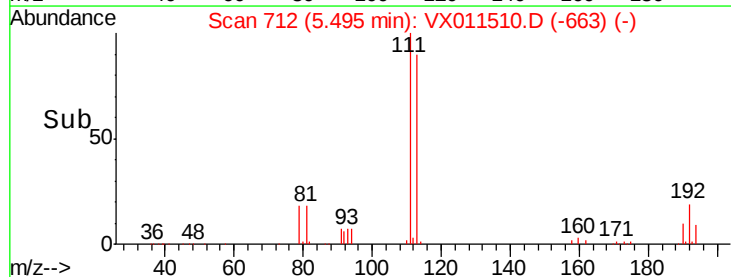
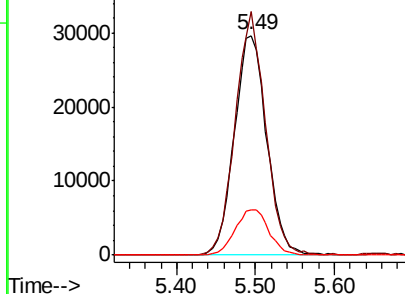


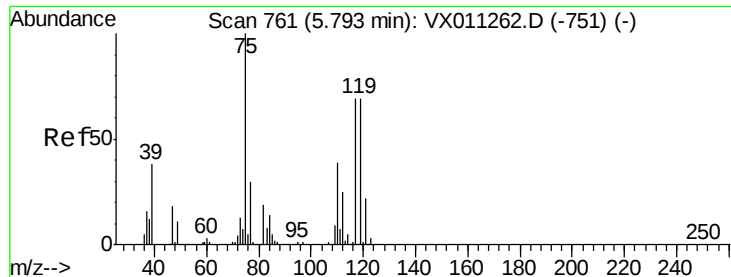
#35
Dibromofluoromethane
Concen: 47.643 ug/l
RT: 5.49 min Scan# 712
Delta R.T. 0.00 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

Tgt Ion:113 Resp: 84735
Ion Ratio Lower Upper
113 100
111 103.1 81.9 122.9
192 21.5 17.8 26.8



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: 5.147 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampled :

2S-D2-(0)

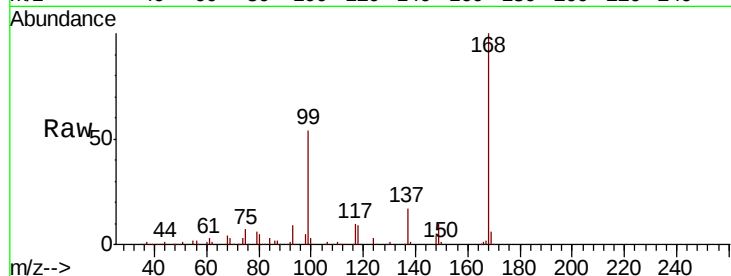
Tgt Ion: 75 Resp: 12242

Ion Ratio Lower Upper

75 100

110 10.4 20.0 59.9#

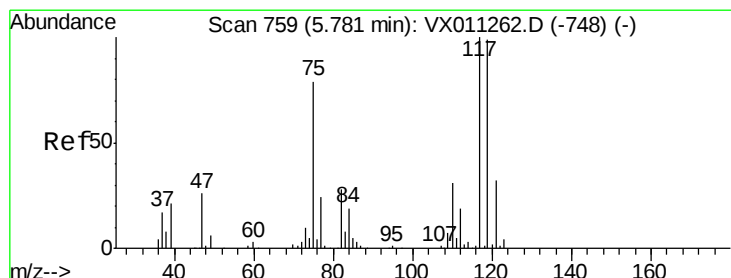
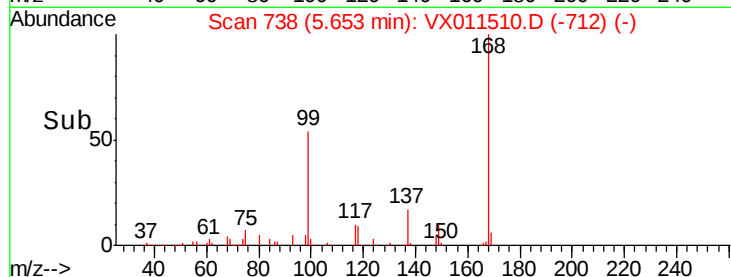
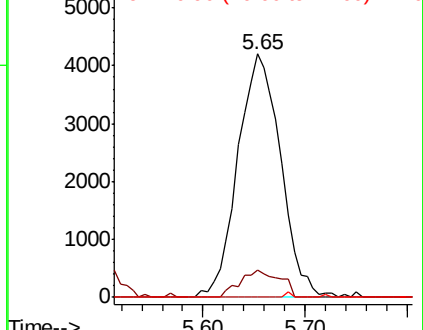
77 0.0 24.8 37.2#



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: 7.321 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

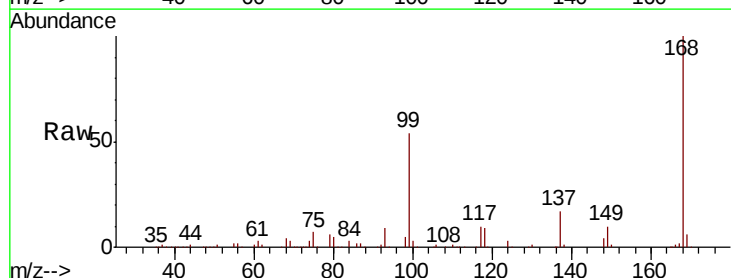
Tgt Ion: 117 Resp: 17519

Ion Ratio Lower Upper

117 100

119 4.4 79.0 118.4#

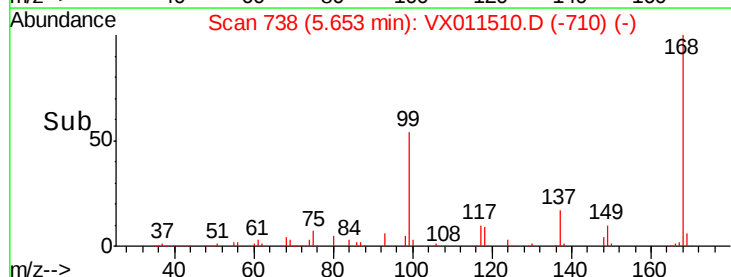
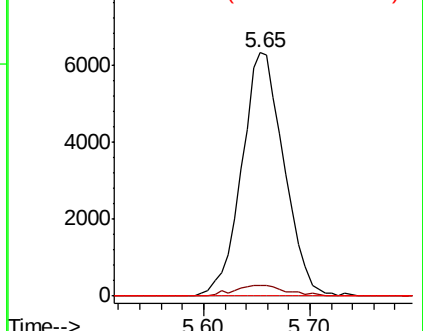
121 0.0 25.9 38.9#

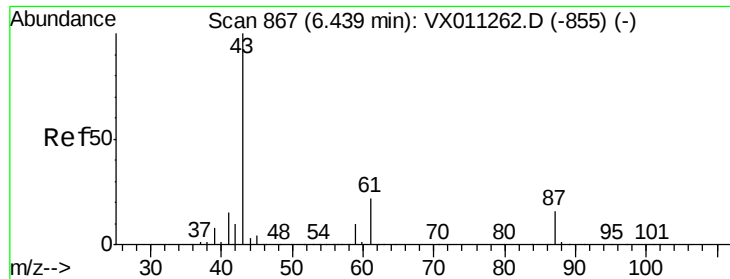


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 7.123 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampled :

2S-D2-(0)

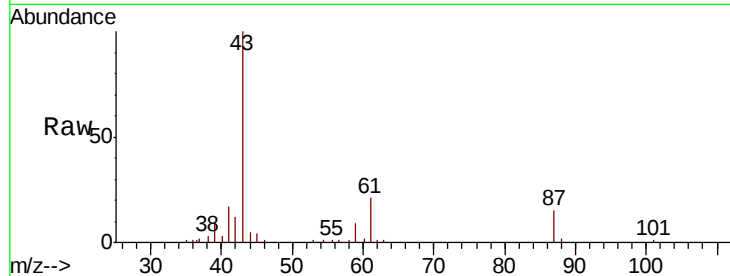
Tgt Ion: 43 Resp: 27169

Ion Ratio Lower Upper

43 100

61 21.3 16.5 24.7

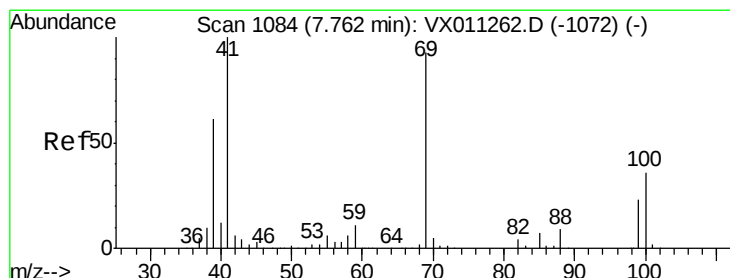
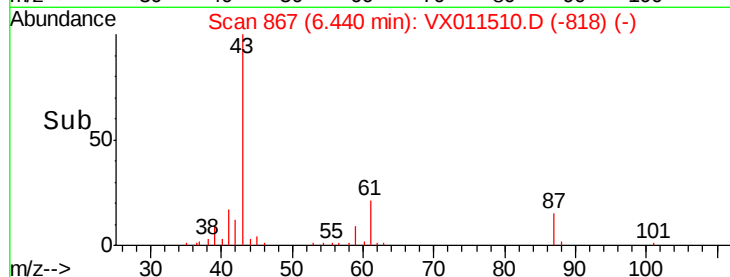
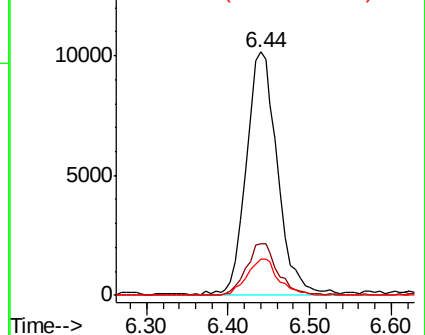
87 15.0 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 0.852 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

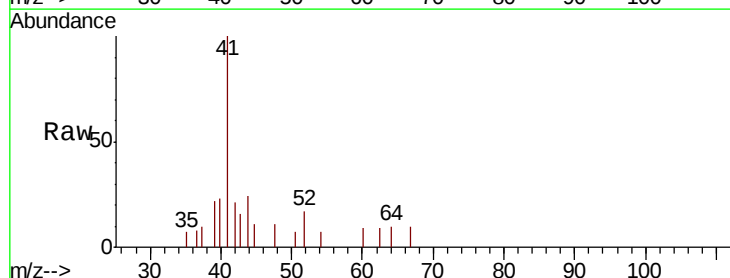
Tgt Ion: 41 Resp: 1530

Ion Ratio Lower Upper

41 100

69 0.0 74.5 111.7#

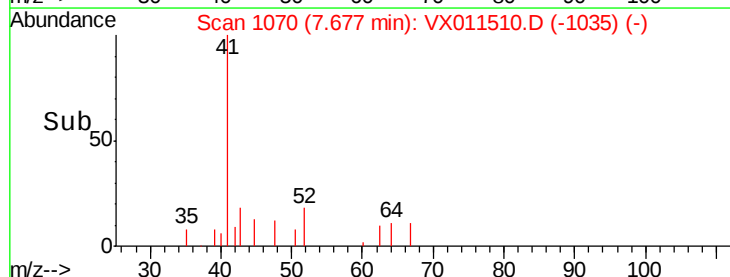
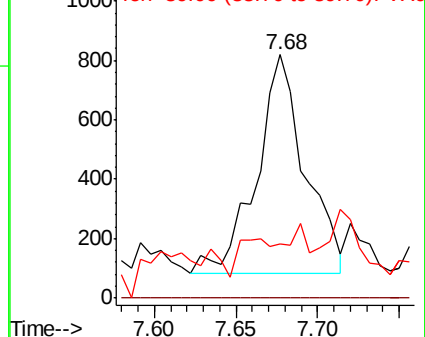
39 0.0 48.6 72.8#

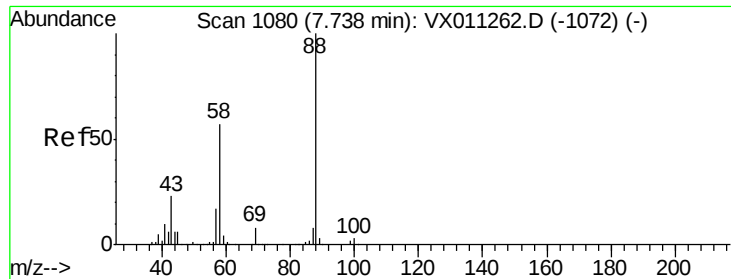


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

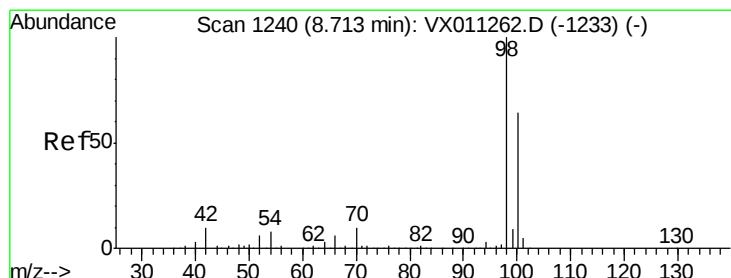
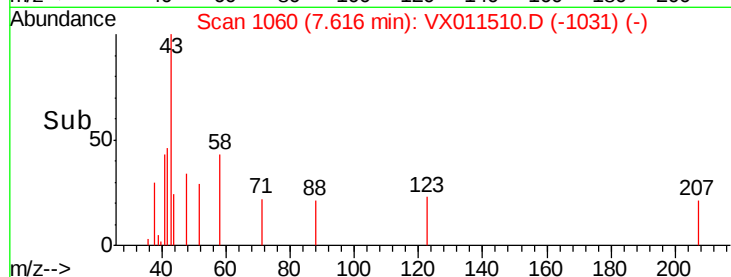
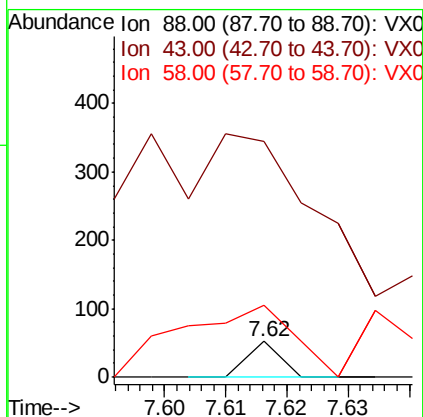
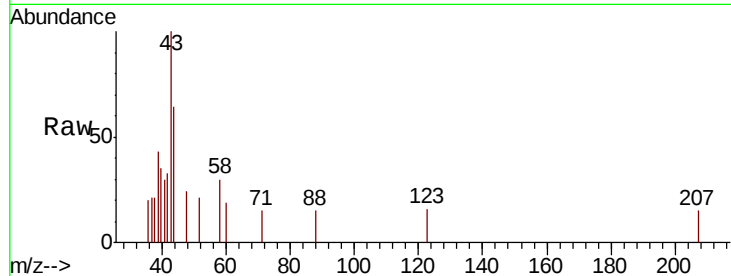




#49
 1,4-Dioxane
 Concen: 0.365 ug/l
 RT: 7.62 min Scan# 1060
 Delta R.T. -0.12 min
 Lab File: VX011510.D
 Acq: 13 Aug 2019 02:23

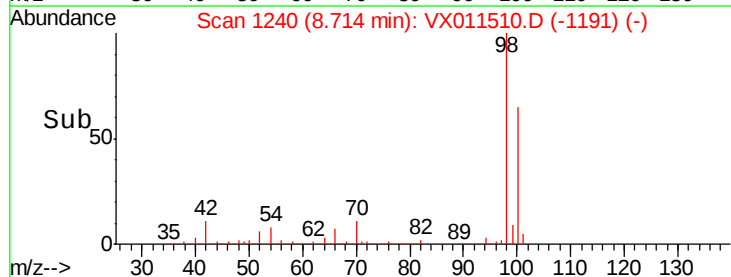
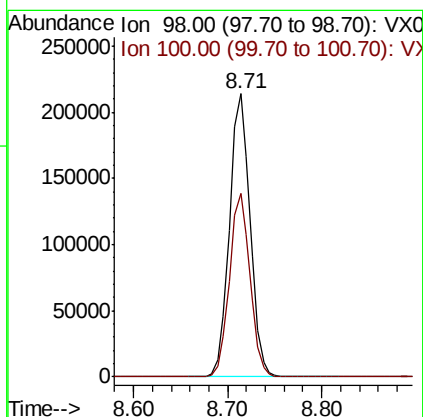
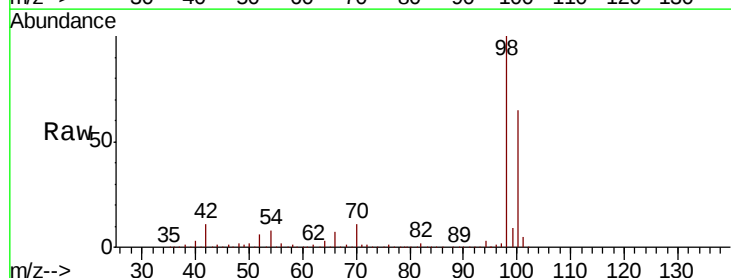
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-D2-(0)

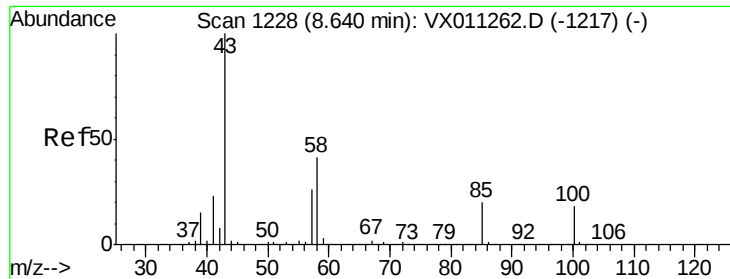
Tgt Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 0.0 22.2 33.2#
 58 715.8 47.8 71.8#



#50
 Toluene-d8
 Concen: 48.258 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX011510.D
 Acq: 13 Aug 2019 02:23

Tgt Ion: 98 Resp: 323975
 Ion Ratio Lower Upper
 98 100
 100 64.8 51.7 77.5

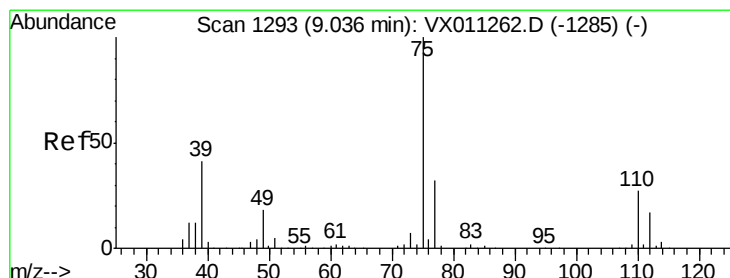
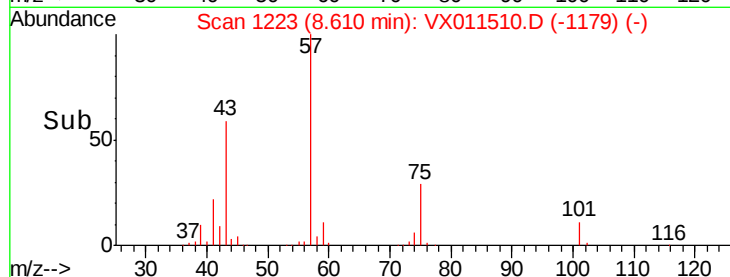
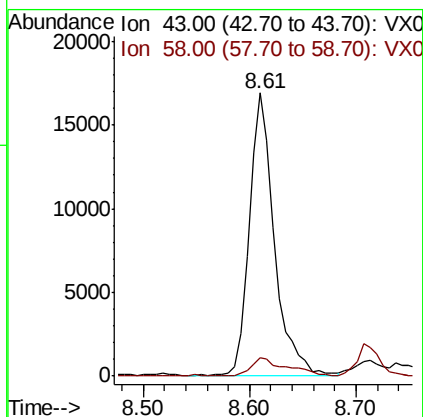
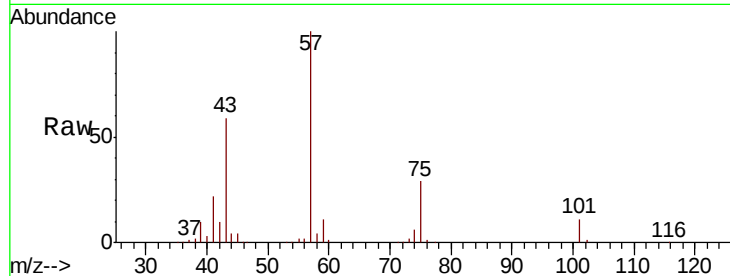




#51
4-Methyl-2-Pentanone
Concen: 11.428 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

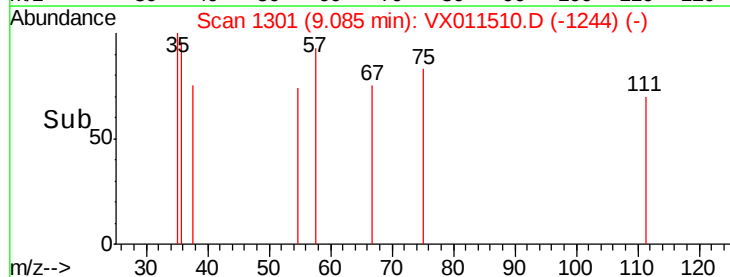
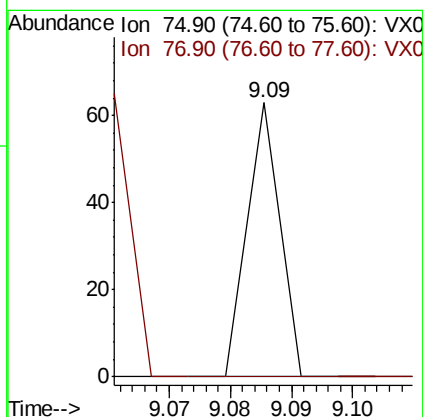
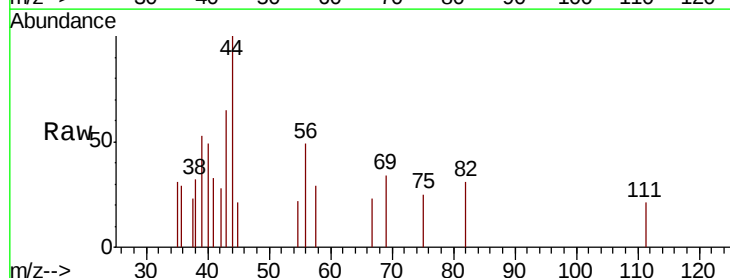
Instrument :
MSVOA_X
ClientSampleId :
2S-D2-(0)

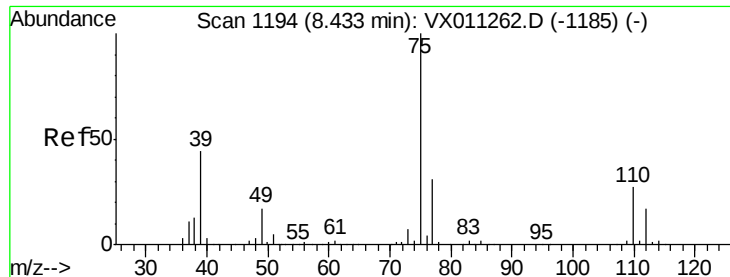
Tgt Ion: 43 Resp: 28132
Ion Ratio Lower Upper
43 100
58 9.2 32.3 48.5#



#53
t-1,3-Dichloropropene
Concen: 2.847 ug/l
RT: 9.09 min Scan# 1301
Delta R.T. 0.05 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

Tgt Ion: 75 Resp: 23
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



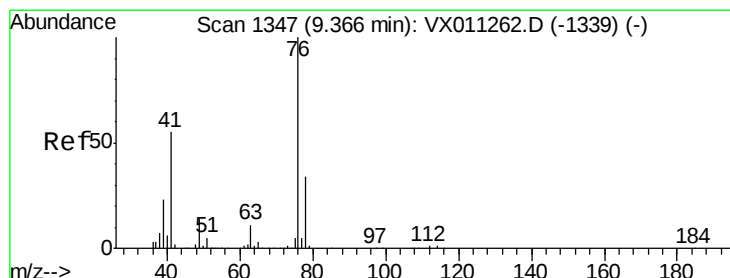
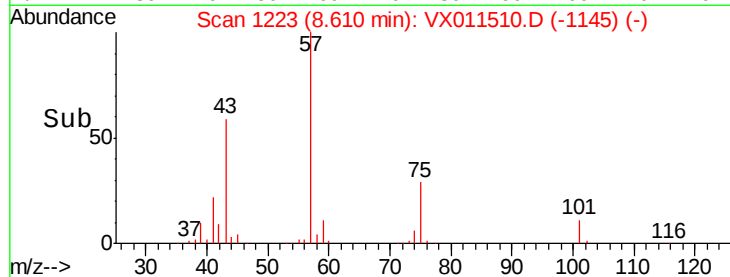
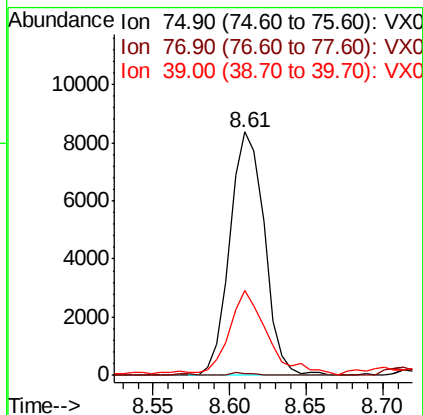
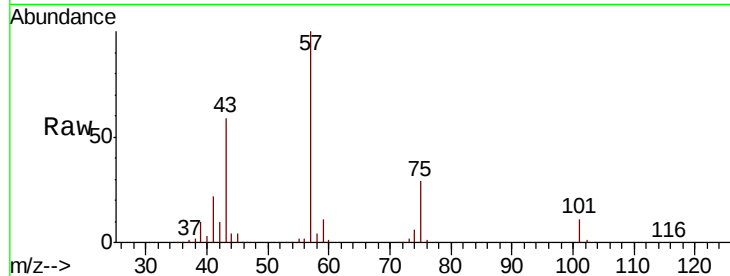


#54

cis-1,3-Dichloropropene
 Concen: 4.946 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011510.D
 Acq: 13 Aug 2019 02:23

Instrument :
 MSVOA_X
 ClientSampled :
 2S-D2-(0)

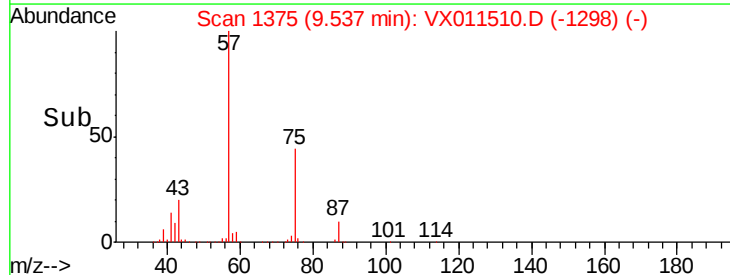
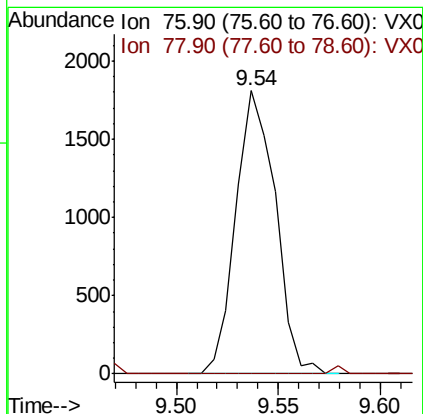
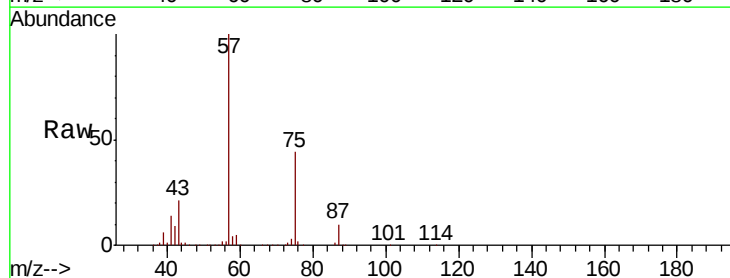
Tgt Ion: 75 Resp: 13127
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.0 37.6#
 39 34.6 35.3 52.9#

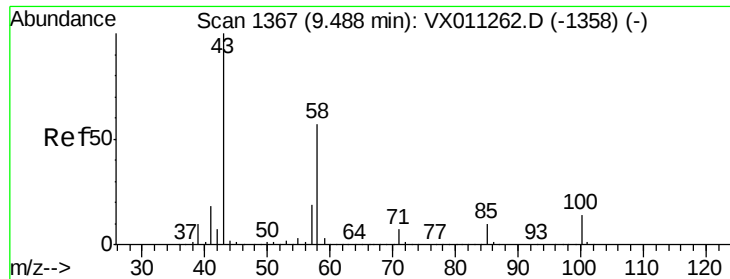


#57

1,3-Dichloropropane
 Concen: 0.798 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011510.D
 Acq: 13 Aug 2019 02:23

Tgt Ion: 76 Resp: 2436
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.6 40.0#

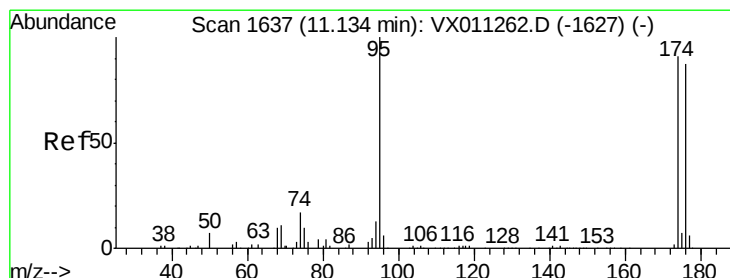
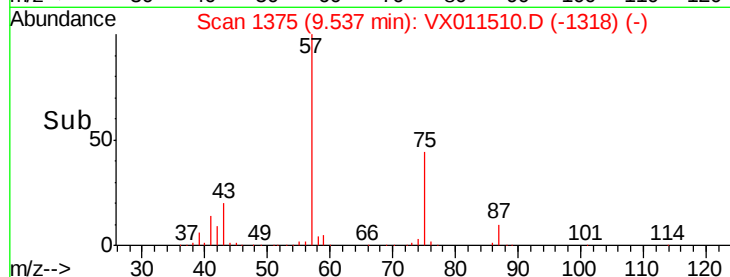
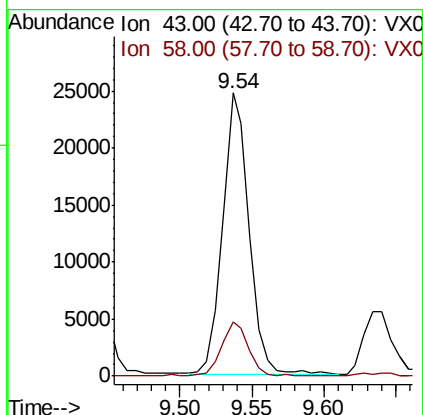
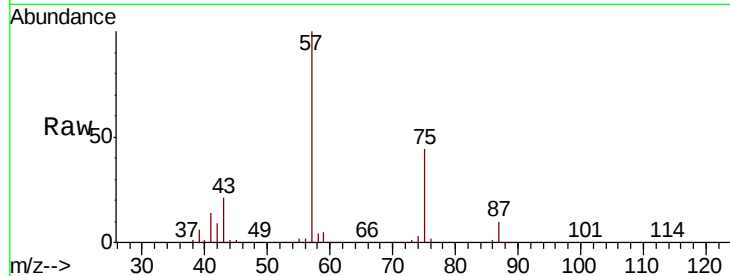




#59
2-Hexanone
Concen: 16.657 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

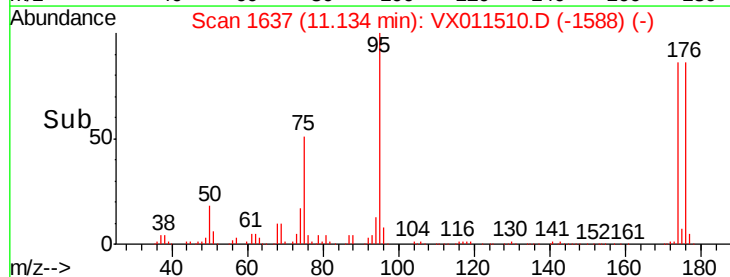
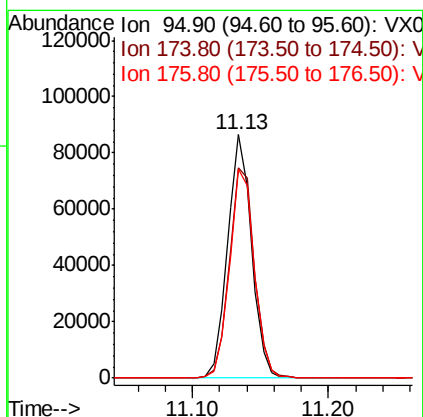
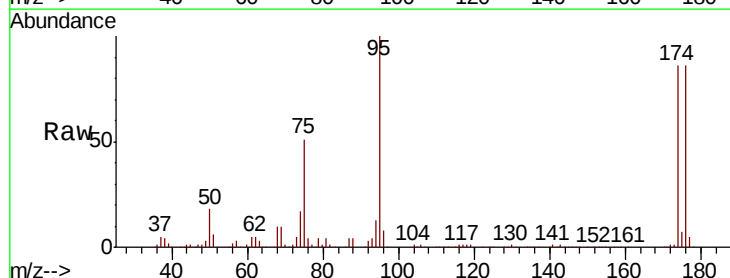
Instrument :
MSVOA_X
ClientSampled :
2S-D2-(0)

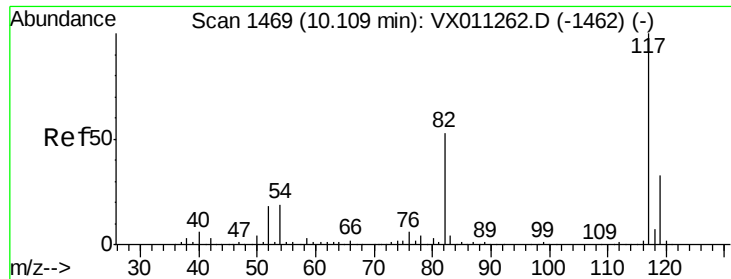
Tgt Ion: 43 Resp: 31759
Ion Ratio Lower Upper
43 100
58 20.0 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 44.152 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

Tgt Ion: 95 Resp: 105826
Ion Ratio Lower Upper
95 100
174 90.5 0.0 191.2
176 88.4 0.0 184.8

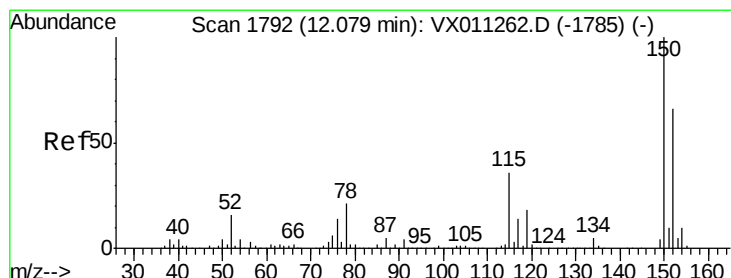
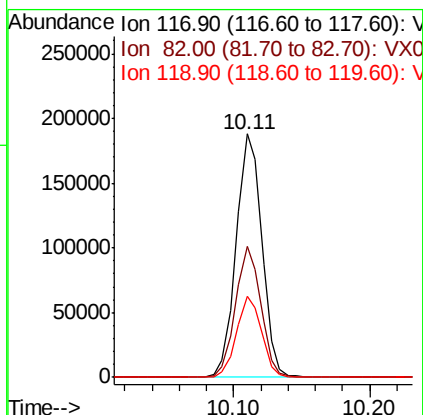
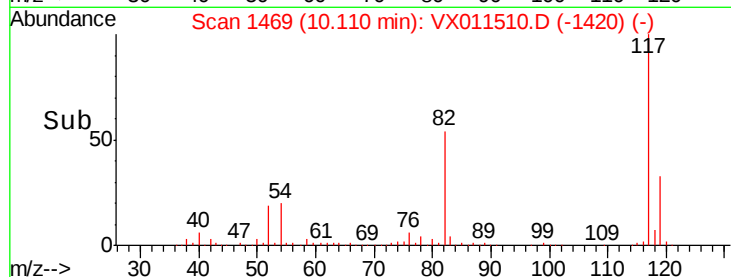
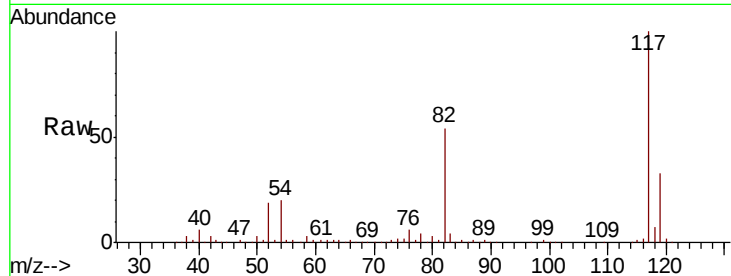




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

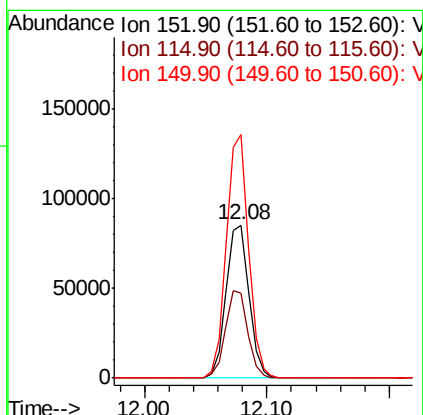
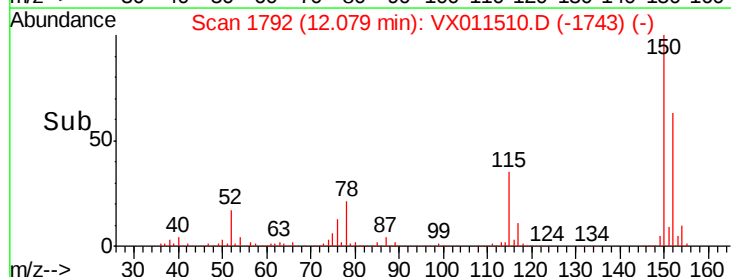
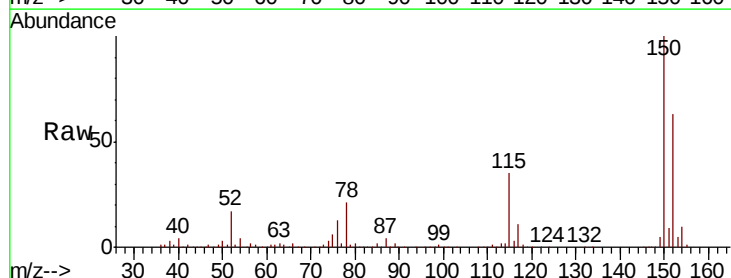
Instrument :
MSVOA_X
ClientSampled :
2S-D2-(0)

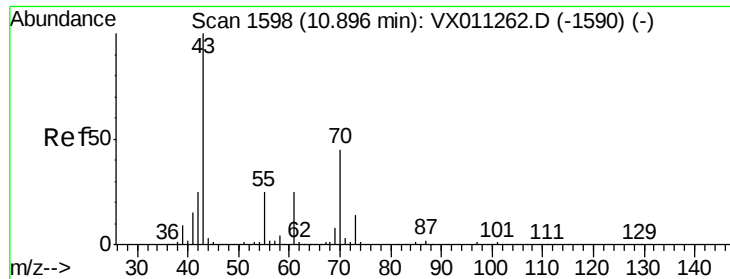
Tgt Ion:117 Resp: 247796
Ion Ratio Lower Upper
117 100
82 53.7 42.2 63.2
119 33.1 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011510.D
Acq: 13 Aug 2019 02:23

Tgt Ion:152 Resp: 109681
Ion Ratio Lower Upper
152 100
115 55.6 40.0 119.9
150 154.1 0.0 350.4





#74

N-ethyl acetate

Concen: 0.437 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampled :

2S-D2-(0)

Tgt Ion: 43 Resp: 1184

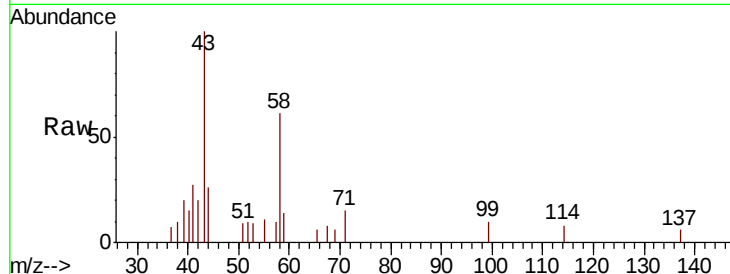
Ion Ratio Lower Upper

43 100

70 0.0 35.9 53.9#

55 22.6 19.8 29.6

61 0.0 19.7 29.5#

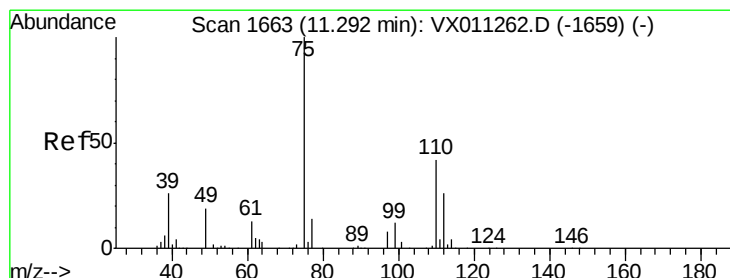
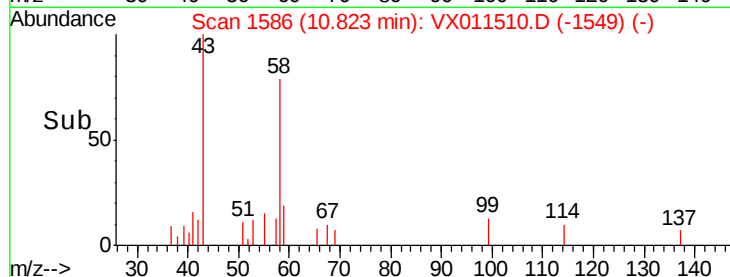
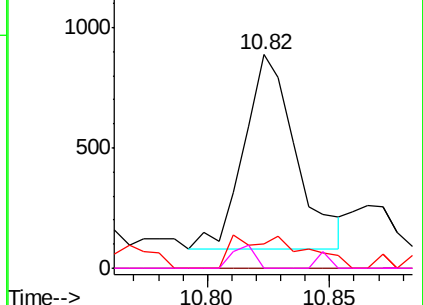


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 27.390 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011510.D

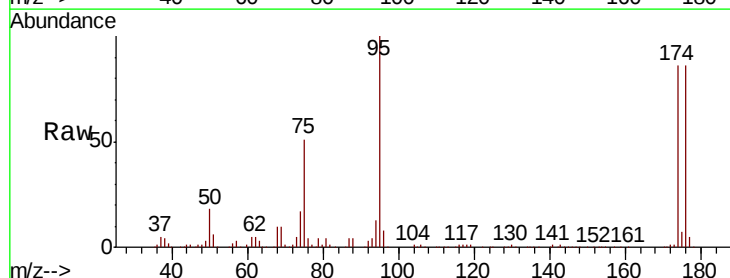
Acq: 13 Aug 2019 02:23

Tgt Ion: 75 Resp: 54709

Ion Ratio Lower Upper

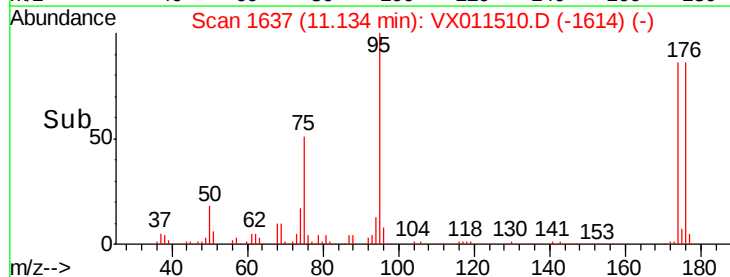
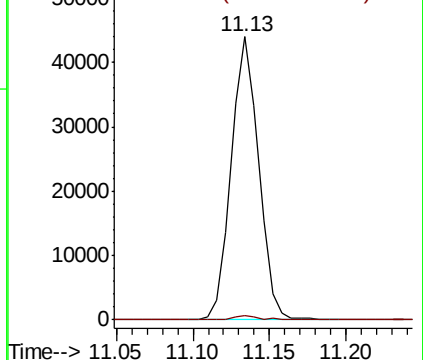
75 100

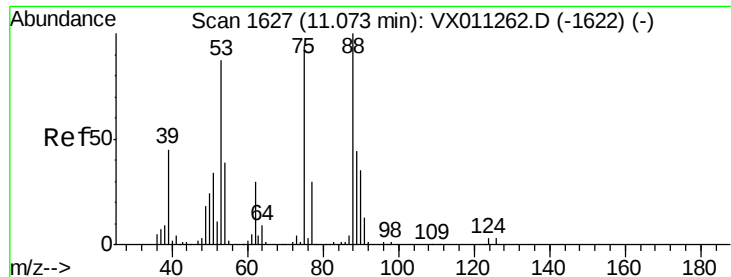
77 1.4 21.1 63.4#



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: 71.043 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011510.D

Acq: 13 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

2S-D2-(0)

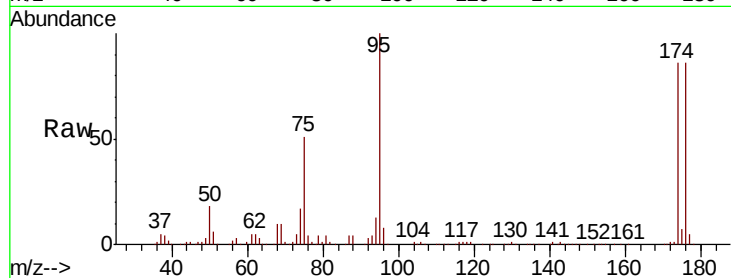
Tgt Ion: 75 Resp: 54709

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#



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

