

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042319\
 Data File : VF062261.D
 Acq On : 23 Apr 2019 13:59
 Operator : FY/SY
 Sample : K2464-01
 Misc : 5.05g/5mL/MSVOA F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Apr 24 04:35:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 23:52:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.92	168	80	50.00	ug/l	-0.12
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.76
63) Chlorobenzene-d5	9.90	117	64	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.85	152	62	50.00	ug/l	0.25

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	154	209.94	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	419.88%	
35) Dibromofluoromethane	4.47	113	67	0.00	ug/l	0.18
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.73	98	83	0.00	ug/l	0.03
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.46	95	69	0.00	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	290	238.536	ug/l #	42
3) Chloromethane	1.14	50	241	191.788	ug/l #	41
4) Vinyl Chloride	1.19	62	73	67.618	ug/l #	42
5) Bromomethane	1.33	94	462	736.658	ug/l #	6
6) Chloroethane	1.43	64	82	181.689	ug/l #	41
8) Diethyl Ether	1.65	74	82	287.265	ug/l #	1
10) Methyl Iodide	2.05	142	80	48.063	ug/l #	42
11) Tert butyl alcohol	2.50	59	173	3392.787	ug/l #	1
12) 1,1-Dichloroethene	1.79	96	124	139.143	ug/l #	1
13) Acrolein	2.02	56	308	4198.959	ug/l #	14
14) Allyl chloride	2.14	41	123	120.267	ug/l #	19
15) Acrylonitrile	3.02	53	143	920.768	ug/l #	15
16) Acetone	2.29	43	503	2868.717	ug/l #	52
17) Carbon Disulfide	1.88	76	89	35.940	ug/l #	71
18) Methyl Acetate	2.35	43	1632	4885.144	ug/l #	59
19) Methyl tert-butyl Ether	2.46	73	322	204.648	ug/l #	58
20) Methylene Chloride	2.25	84	70	85.765	ug/l #	1
21) trans-1,2-Dichloroethene	2.38	96	404	458.419	ug/l #	1
22) Diisopropyl ether	2.85	45	180	68.803	ug/l #	46
23) Vinyl Acetate	3.26	43	460	369.047	ug/l #	79
24) 1,1-Dichloroethane	2.97	63	131	91.537	ug/l #	88
25) 2-Butanone	4.39	43	1255	3579.588	ug/l #	56
26) 2,2-Dichloropropane	3.68	77	256	354.310	ug/l #	54
27) cis-1,2-Dichloroethene	3.57	96	77	67.469	ug/l #	56
28) Bromochloromethane	3.81	49	69	100.649	ug/l #	8
29) Tetrahydrofuran	4.17	42	336	2117.291	ug/l #	66
30) Chloroform	3.93	83	79	44.917	ug/l #	25
31) Cyclohexane	3.81	56	355	206.992	ug/l #	17
32) 1,1,1-Trichloroethane	4.19	97	70	54.373	ug/l #	17
66) 1,1,1,2-Tetrachloroethane	10.11	131	101	158.043	ug/l #	1
67) Ethyl Benzene	10.02	91	260	104.776	ug/l #	44
68) m/p-Xylenes	10.11	106	122	133.553	ug/l #	54
69) o-Xylene	10.85	106	63	62.116	ug/l	73
70) Styrene	10.79	104	76	53.099	ug/l #	1

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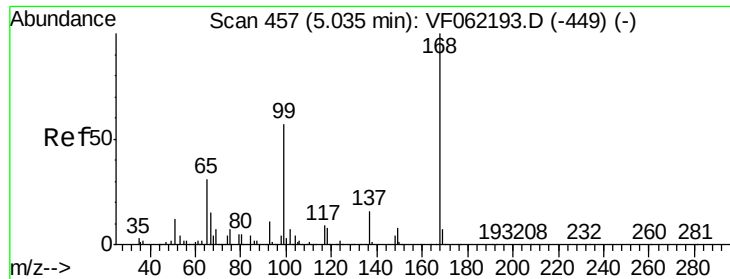
Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Apr 24 04:35:46 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

73) Isopropylbenzene	11.23	105	111	20.842	ug/l #	27
74) N-amyl acetate	11.42	43	1489	1230.202	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	11.79	83	146	159.403	ug/l #	22
76) 1,2,3-Trichloropropane	11.87	75	71	112.671	ug/l #	1
77) Bromobenzene	11.68	156	62	54.343	ug/l #	1
78) n-propylbenzene	11.65	91	234	41.650	ug/l #	53
79) 2-Chlorotoluene	11.65	91	234	68.661	ug/l	95
80) 1,3,5-Trimethylbenzene	11.80	105	151	34.042	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.95	75	220	684.554	ug/l #	60
82) 4-Chlorotoluene	11.95	91	369	112.035	ug/l #	41
83) tert-Butylbenzene	12.19	119	146	31.828	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.27	105	203	47.292	ug/l #	29
85) sec-Butylbenzene	12.51	105	235	39.460	ug/l	81
86) p-Isopropyltoluene	12.54	119	82	16.232	ug/l #	1
87) 1,3-Dichlorobenzene	12.41	146	74	34.953	ug/l #	14
88) 1,4-Dichlorobenzene	12.77	146	69	33.788	ug/l #	23
89) n-Butylbenzene	12.90	91	810	211.757	ug/l #	33
90) Hexachloroethane	12.93	117	66	50.877	ug/l #	12
91) 1,2-Dichlorobenzene	12.88	146	61	29.839	ug/l #	3
92) 1,2-Dibromo-3-Chloropropan	13.64	75	417	2317.267	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.18	180	72	42.094	ug/l #	11
94) Hexachlorobutadiene	14.21	225	63	53.716	ug/l #	19
95) Naphthalene	14.52	128	286	95.629	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.49	180	69	42.020	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.12 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

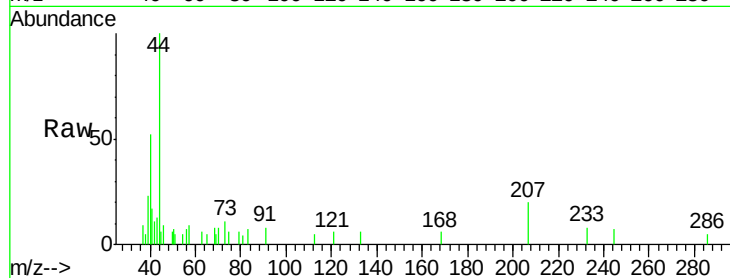
ClientSampled :

Tot Ion:168 Resp: 80

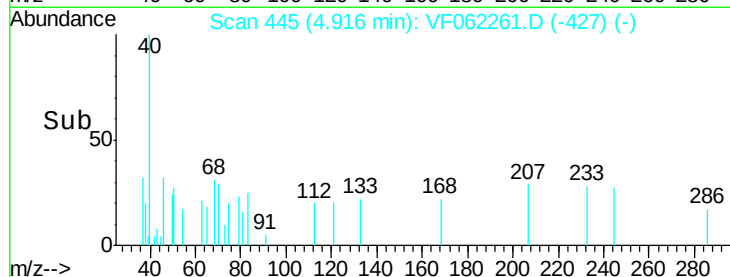
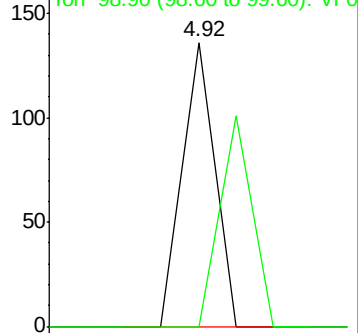
Ion Ratio Lower Upper

168 100

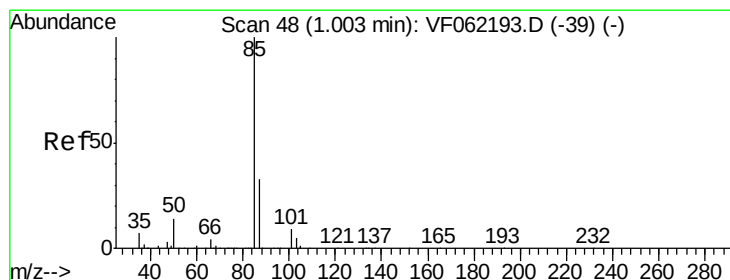
99 0.0 45.5 68.3#



Abundance Ion 167.90 (167.60 to 168.60): VF0



Time-->



#2

Dichlorodifluoromethane

Concen: 238.536 ug/l

RT: 0.97 min Scan# 45

Delta R.T. -0.03 min

Lab File: VF062261.D

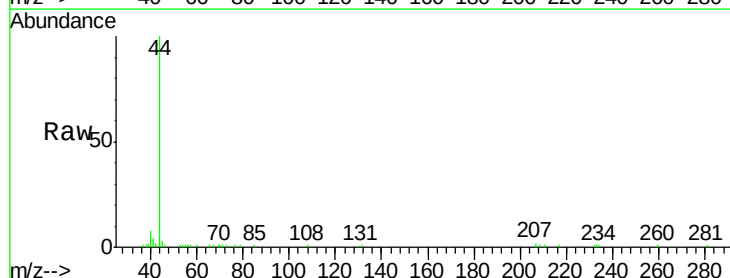
Acq: 23 Apr 2019 13:59

Tgt Ion: 85 Resp: 290

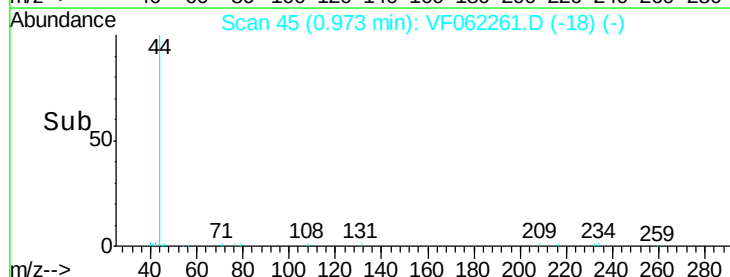
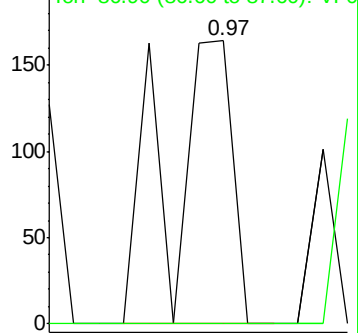
Ion Ratio Lower Upper

85 100

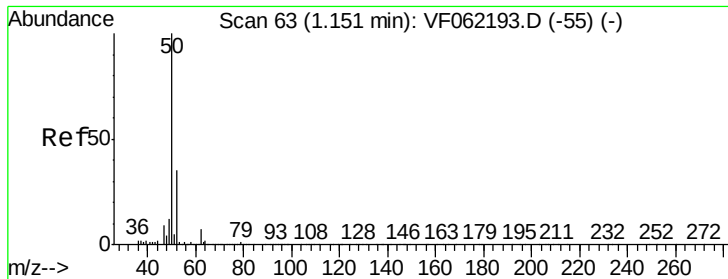
87 0.0 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VF0



Time-->



#3

Chloromethane

Concen: 191.788 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

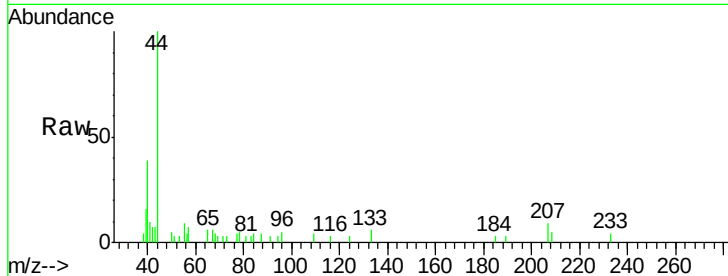
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 241

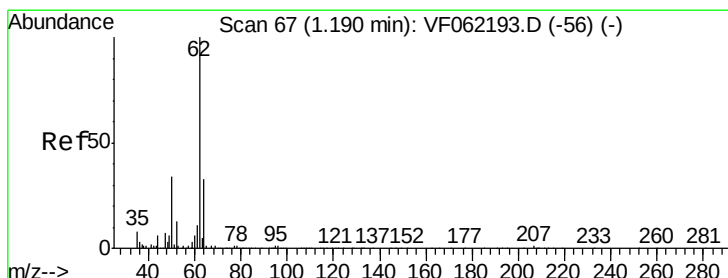
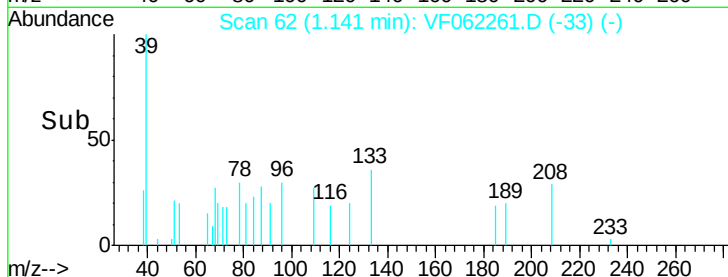
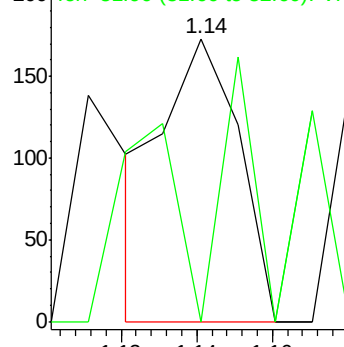
Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.4#



Abundance Ion 49.90 (49.60 to 50.60): VF0
Ion 51.90 (51.60 to 52.60): VF0



#4

Vinyl Chloride

Concen: 67.618 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062261.D

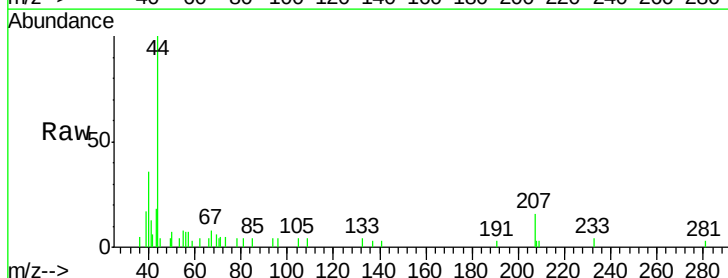
Acq: 23 Apr 2019 13:59

Tgt Ion: 62 Resp: 73

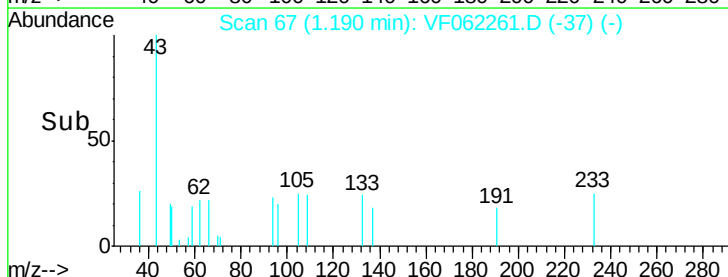
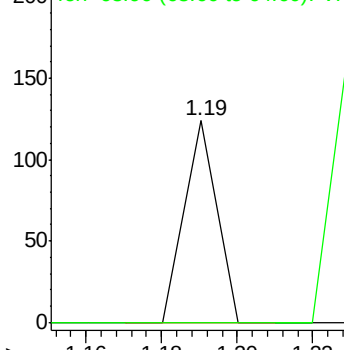
Ion Ratio Lower Upper

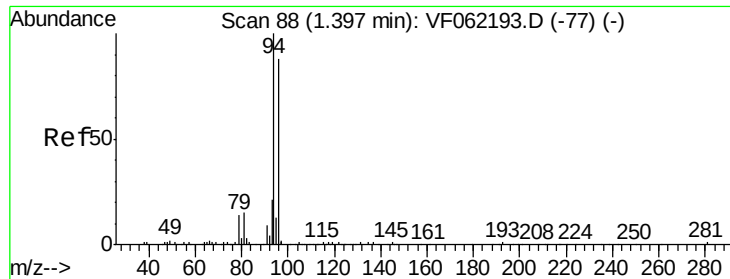
62 100

64 0.0 26.2 39.4#



Abundance Ion 61.90 (61.60 to 62.60): VF0
Ion 63.90 (63.60 to 64.60): VF0





#5

Bromomethane

Concen: 736.658 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.07 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

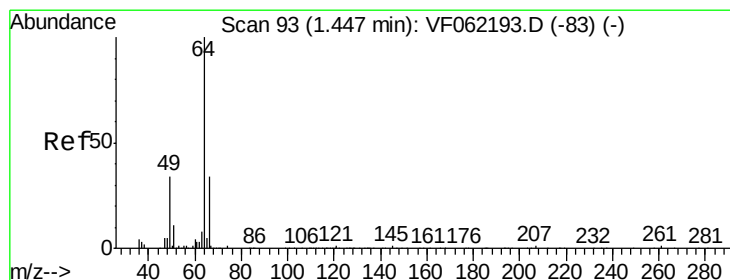
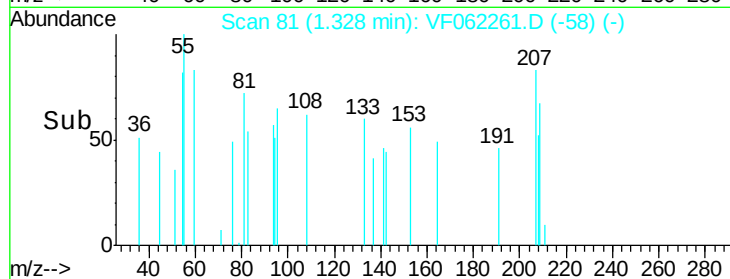
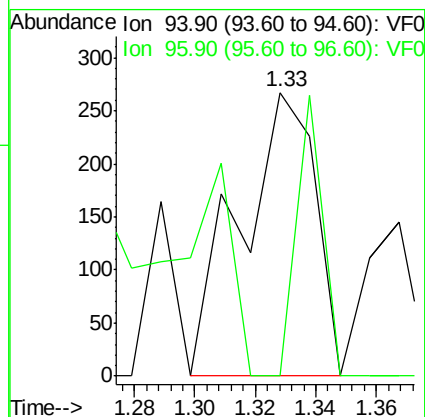
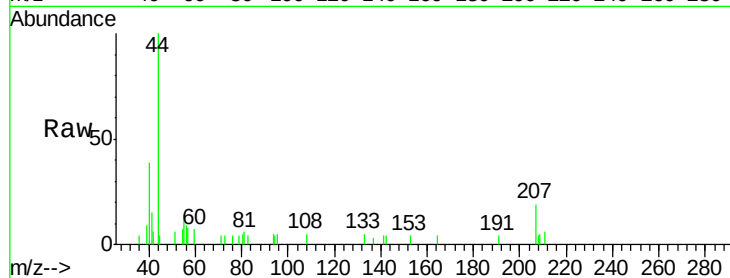
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 462

Ion Ratio Lower Upper

94 100

96 0.0 70.2 105.4#



#6

Chloroethane

Concen: 181.689 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.02 min

Lab File: VF062261.D

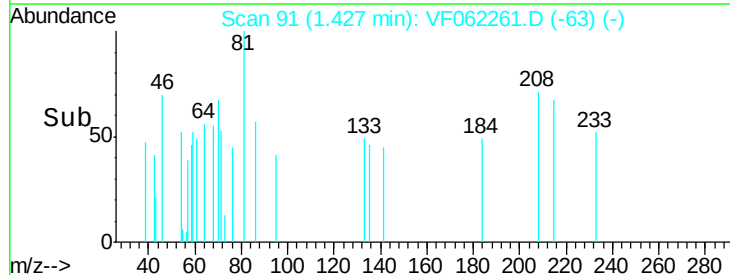
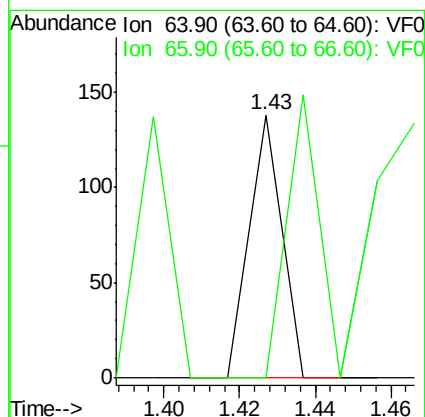
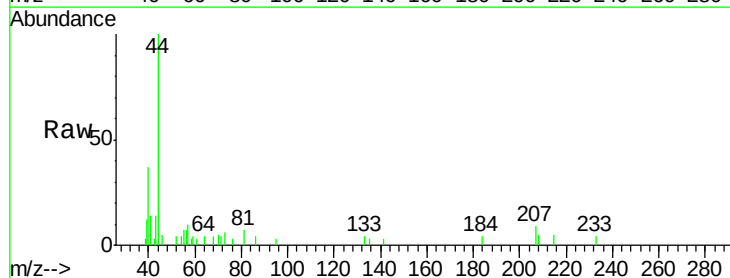
Acq: 23 Apr 2019 13:59

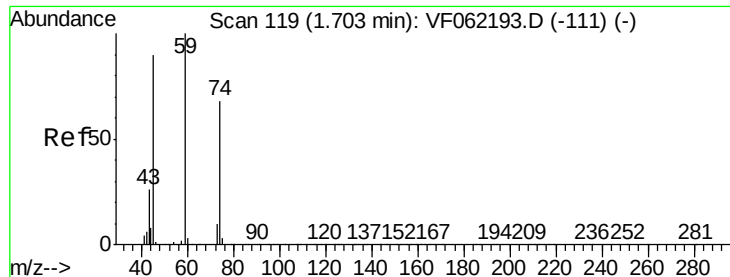
Tgt Ion: 64 Resp: 82

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.4#





#8

Diethyl Ether

Concen: 287.265 ug/l

RT: 1.65 min Scan# 114

Delta R.T. -0.05 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

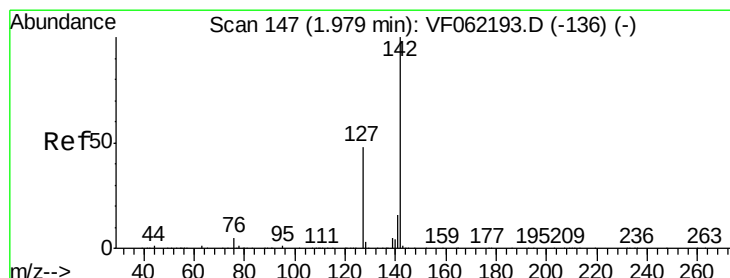
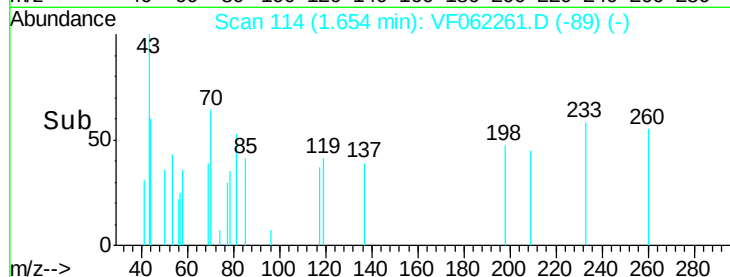
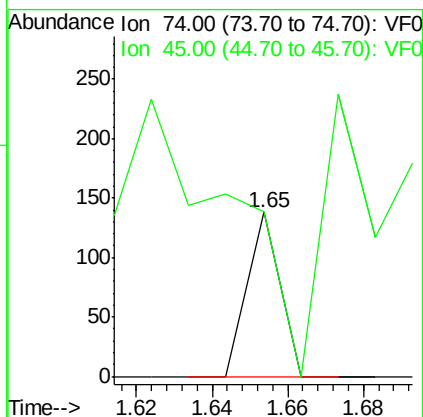
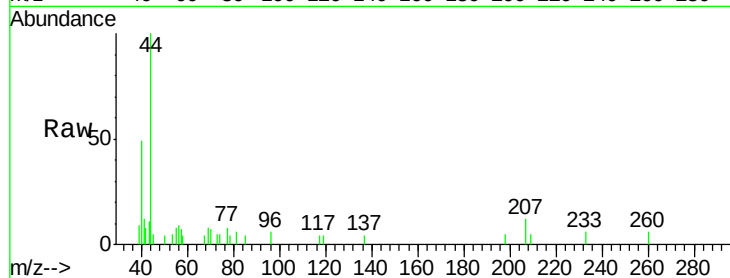
ClientSampled :

Tot Ion: 74 Resp: 82

Ion Ratio Lower Upper

74 100

45 386.6 70.0 210.2#



#10

Methyl Iodide

Concen: 48.063 ug/l

RT: 2.05 min Scan# 154

Delta R.T. 0.07 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

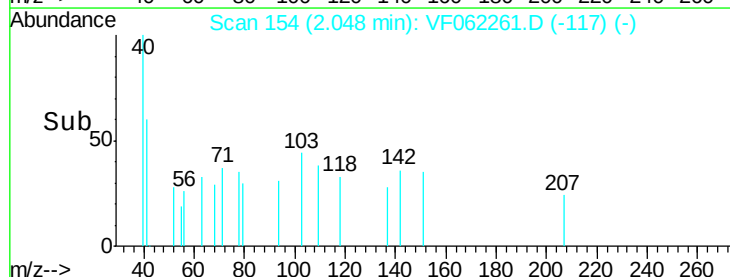
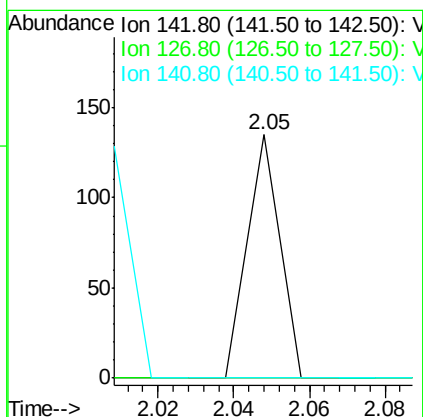
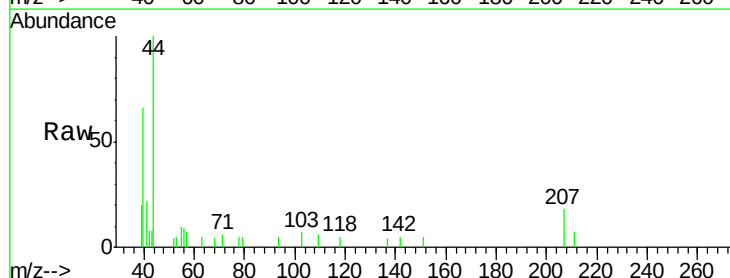
Tgt Ion: 142 Resp: 80

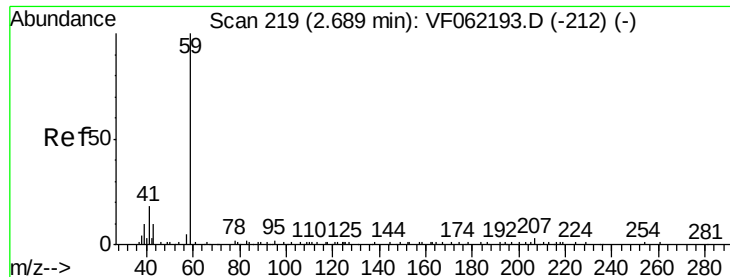
Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.4#

141 0.0 12.7 19.1#



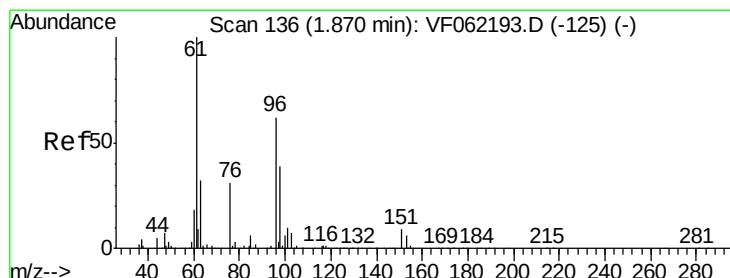
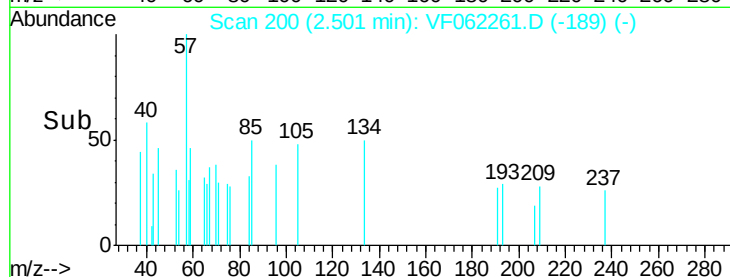
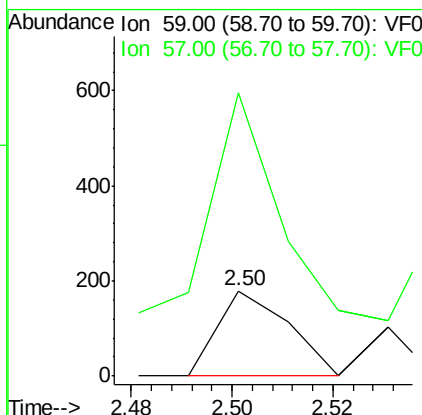
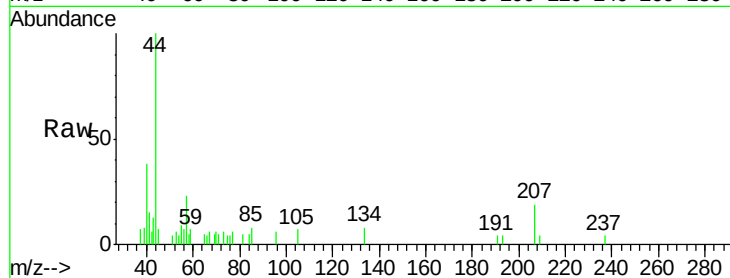


#11

Tert butyl alcohol
Concen: 3392.787 ug/l
RT: 2.50 min Scan# 200
Delta R.T. -0.19 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Instrument :
MSVOA_F
ClientSampleId :

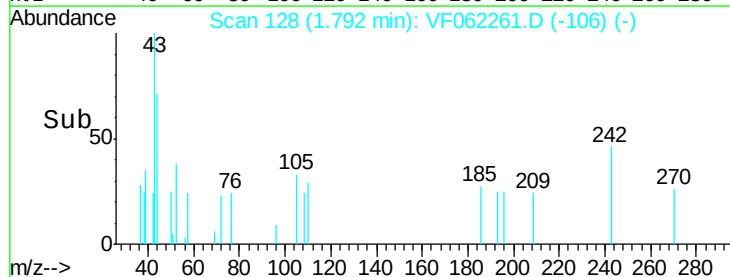
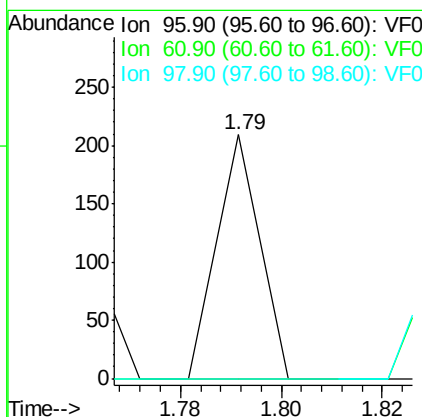
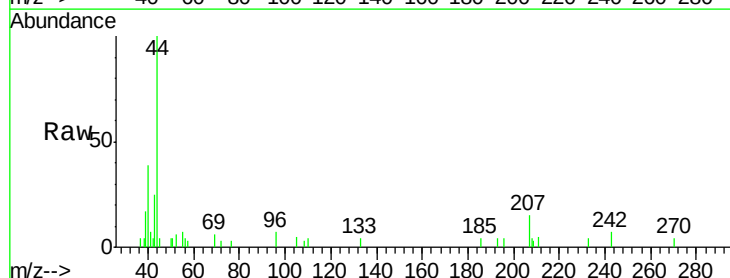
Tot Ion: 59 Resp: 173
Ion Ratio Lower Upper
59 100
57 391.9 9.3 13.9#

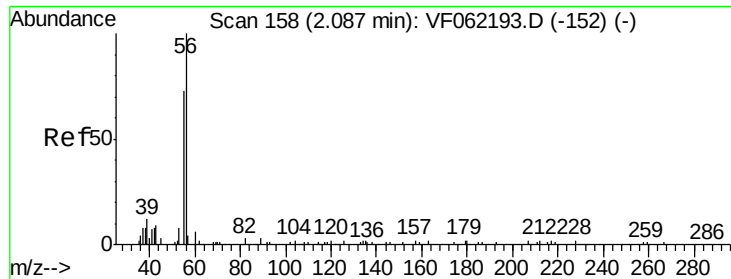


#12

1,1-Dichloroethene
Concen: 139.143 ug/l
RT: 1.79 min Scan# 128
Delta R.T. -0.08 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Tgt Ion: 96 Resp: 124
Ion Ratio Lower Upper
96 100
61 0.0 129.1 193.7#
98 0.0 50.0 75.0#





#13

Acrolein

Concen: 4198.959 ug/l

RT: 2.02 min Scan# 151

Delta R.T. -0.07 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

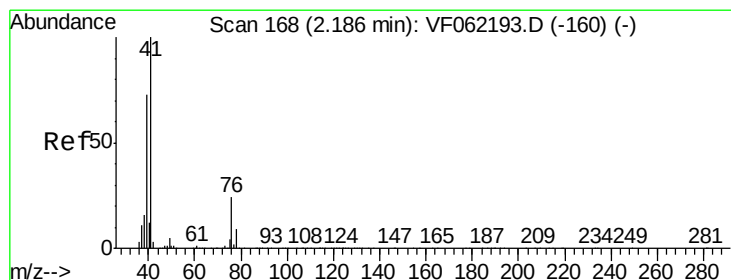
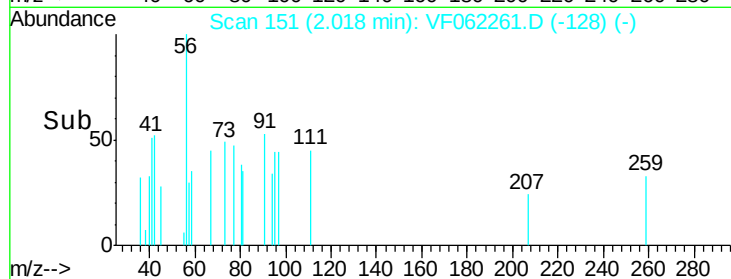
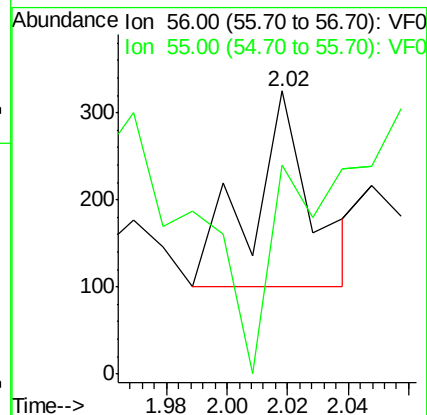
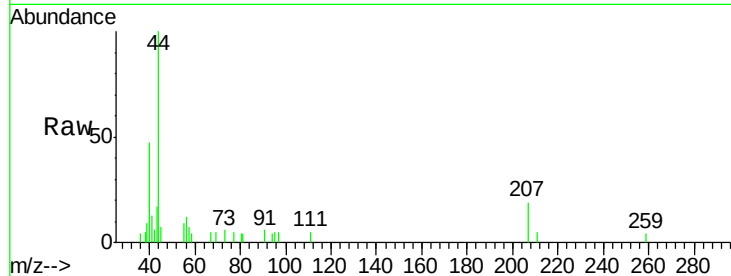
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 308

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.0#



#14

Allyl chloride

Concen: 120.267 ug/l

RT: 2.14 min Scan# 163

Delta R.T. -0.05 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

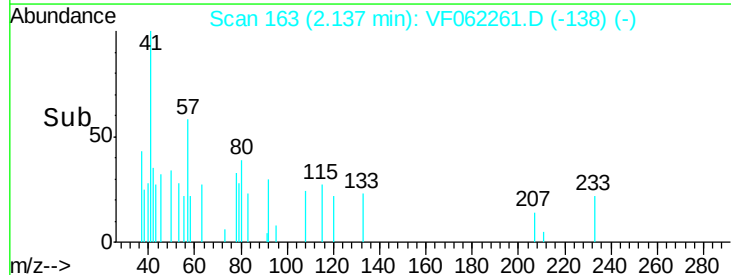
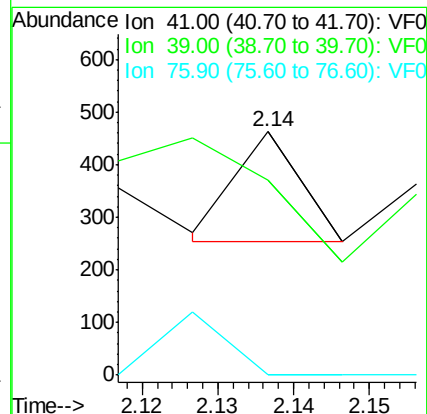
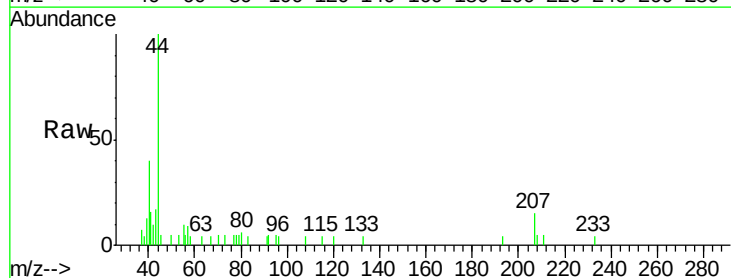
Tgt Ion: 41 Resp: 123

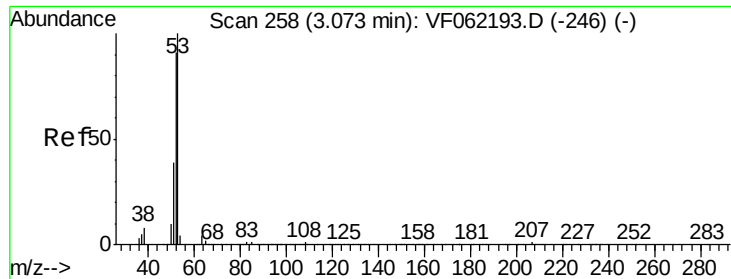
Ion Ratio Lower Upper

41 100

39 0.0 60.0 90.0#

76 56.9 20.6 30.8#





#15

Acrylonitrile

Concen: 920.768 ug/l

RT: 3.02 min Scan# 253

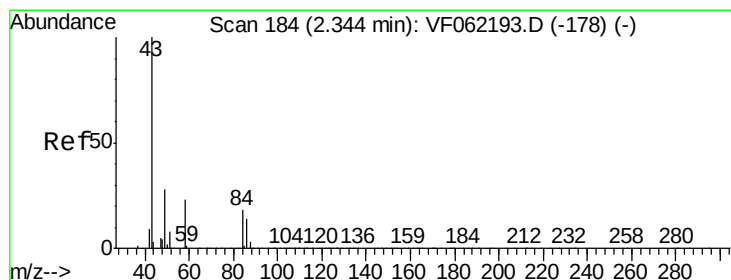
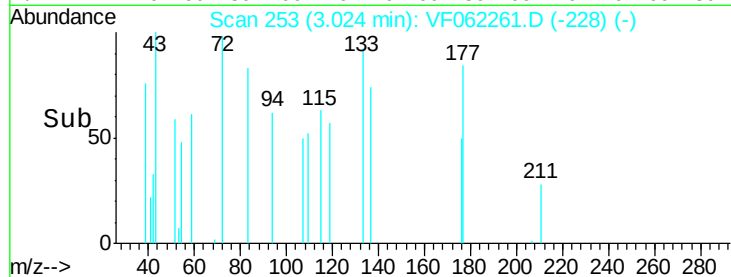
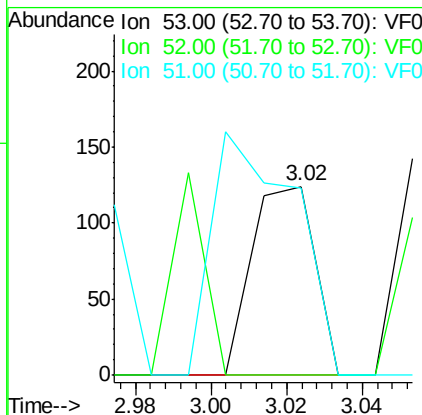
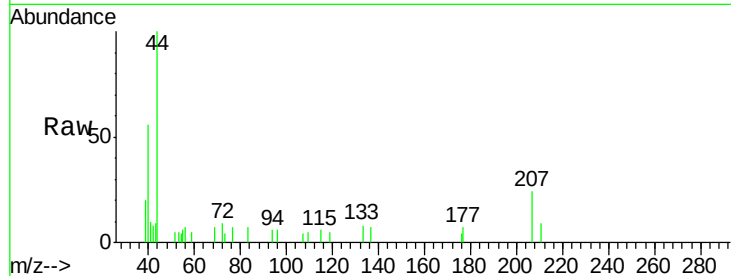
Delta R.T. -0.05 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	53	Resp:	143
Ion	Ratio	Lower	Upper
53	100		
52	0.0	69.5	104.3#
51	0.0	31.8	47.8#



#16

Acetone

Concen: 2868.717 ug/l

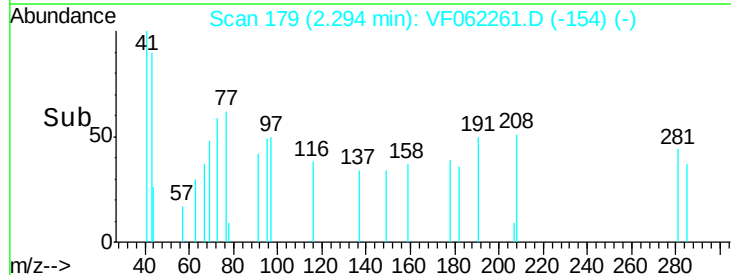
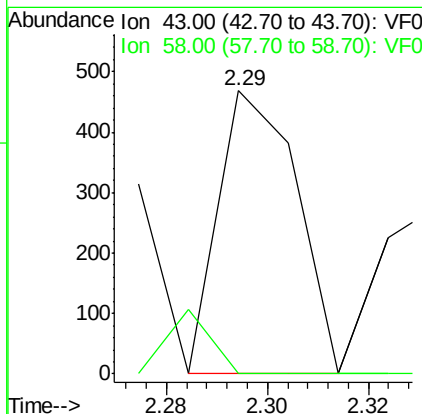
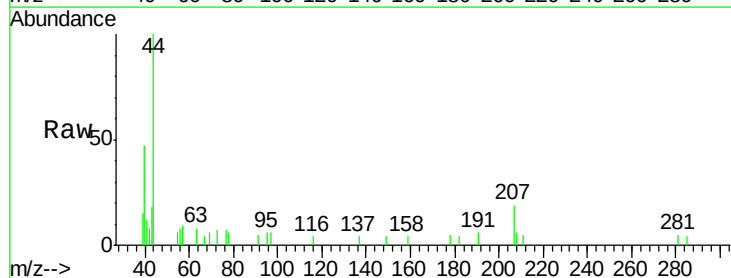
RT: 2.29 min Scan# 179

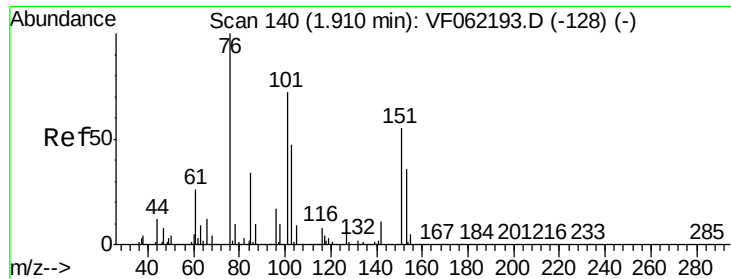
Delta R.T. -0.05 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Tgt Ion:	43	Resp:	503
Ion	Ratio	Lower	Upper
43	100		
58	0.0	18.8	28.2#

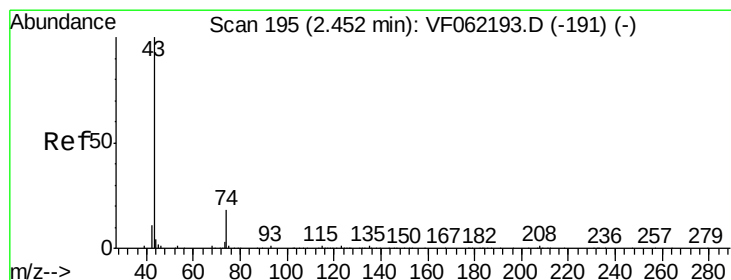
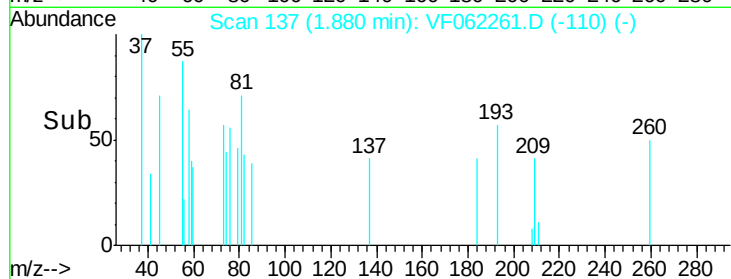
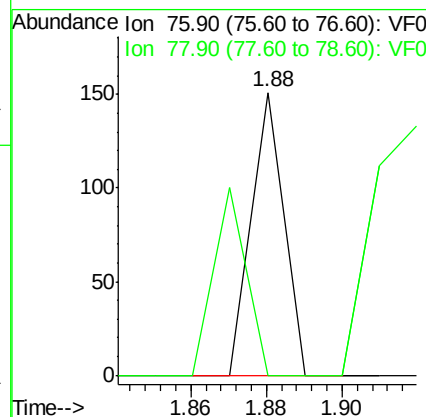
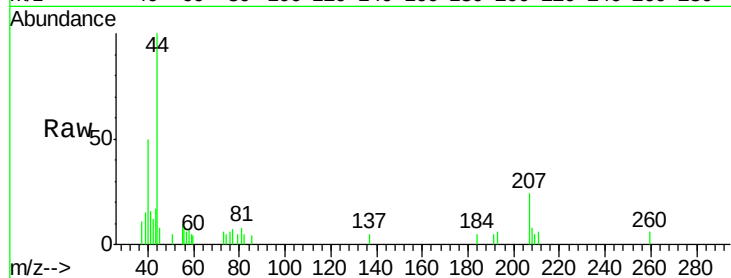




#17
Carbon Disulfide
Concen: 35.940 ug/l
RT: 1.88 min Scan# 137
Delta R.T. -0.03 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

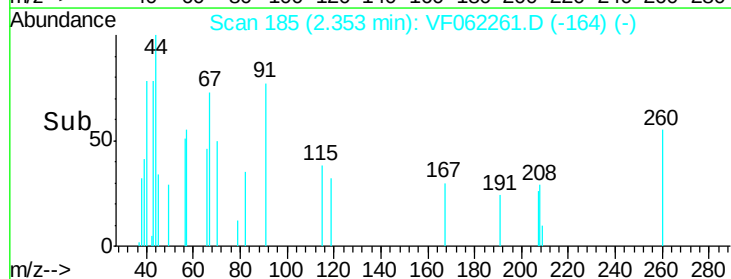
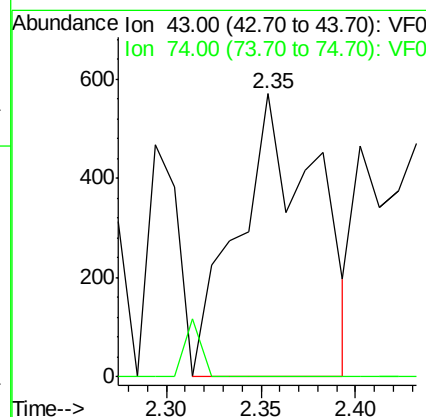
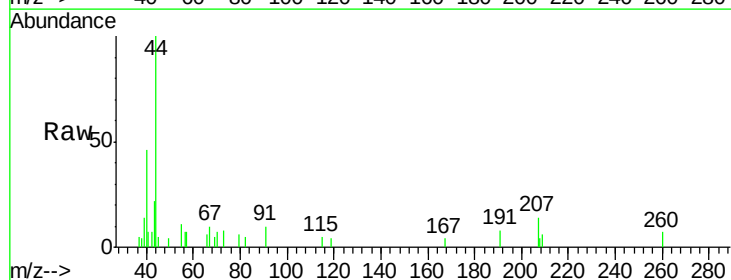
Instrument :
MSVOA_F
ClientSampleId :

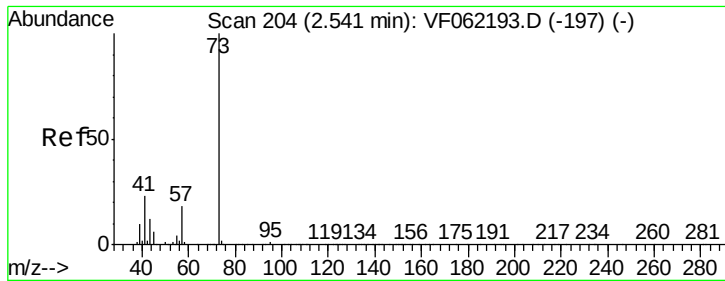
Tot Ion: 76 Resp: 89
Ion Ratio Lower Upper
76 100
78 0.0 8.7 13.1#



#18
Methyl Acetate
Concen: 4885.144 ug/l
RT: 2.35 min Scan# 185
Delta R.T. -0.10 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Tgt Ion: 43 Resp: 1632
Ion Ratio Lower Upper
43 100
74 0.0 14.5 21.7#

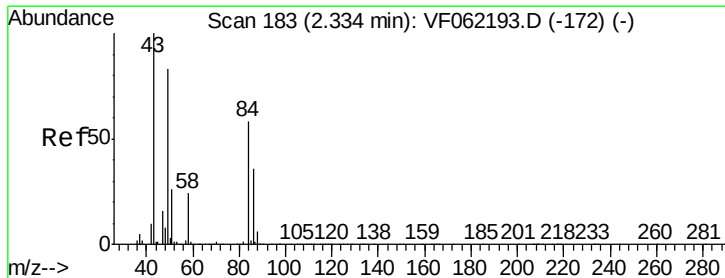
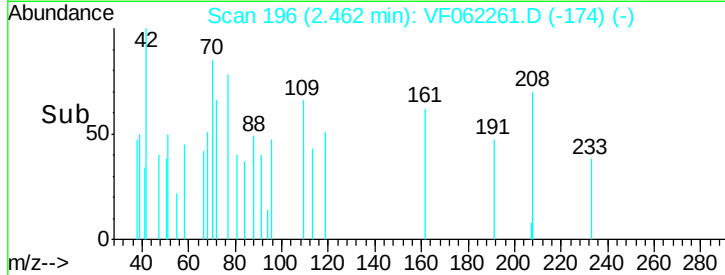
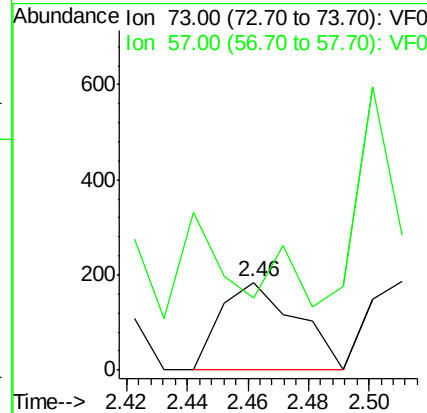
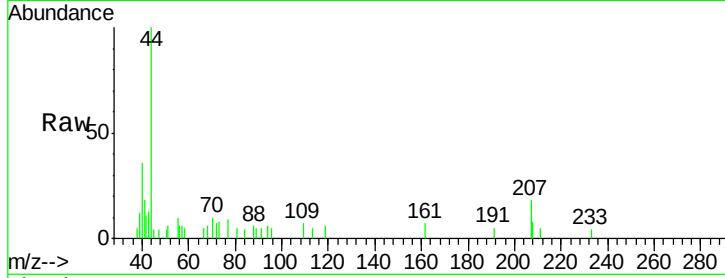




#19
Methyl tert-butyl Ether
Concen: 204.648 ug/l
RT: 2.46 min Scan# 196
Delta R.T. -0.08 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

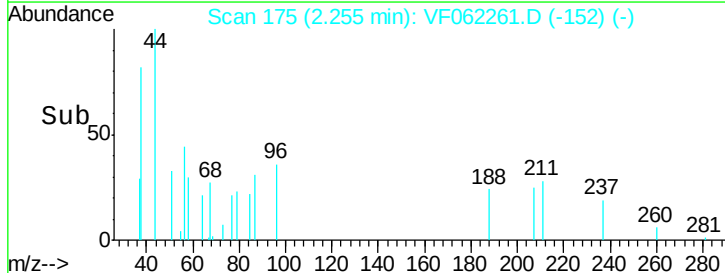
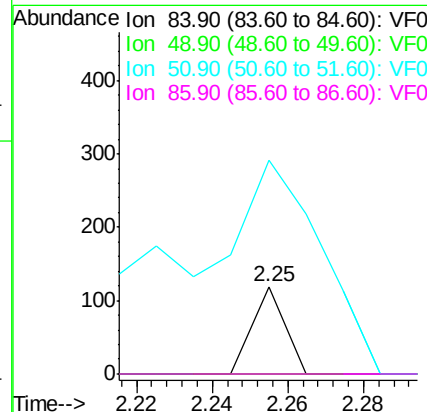
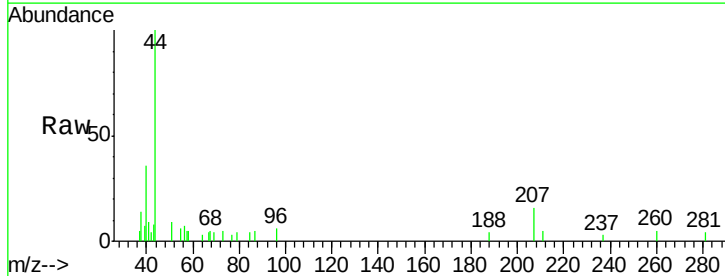
Instrument :
MSVOA_F
ClientSampled :

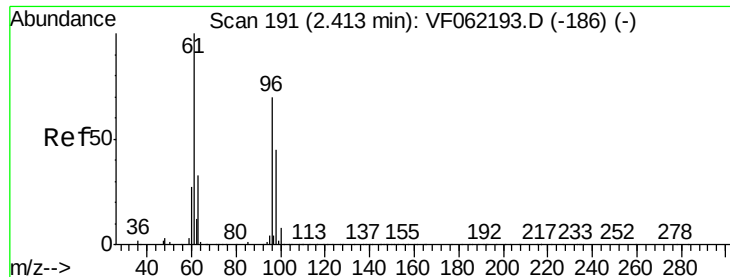
Tot Ion: 73 Resp: 322
Ion Ratio Lower Upper
73 100
57 0.0 15.1 22.7#



#20
Methylene Chloride
Concen: 85.765 ug/l
RT: 2.25 min Scan# 175
Delta R.T. -0.08 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Tgt Ion: 84 Resp: 70
Ion Ratio Lower Upper
84 100
49 0.0 114.0 171.0#
51 149.6 37.0 55.4#
86 0.0 49.8 74.8#





#21

trans-1,2-Dichloroethene

Concen: 458.419 ug/l

RT: 2.38 min Scan# 188

Delta R.T. -0.03 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

ClientSampled :

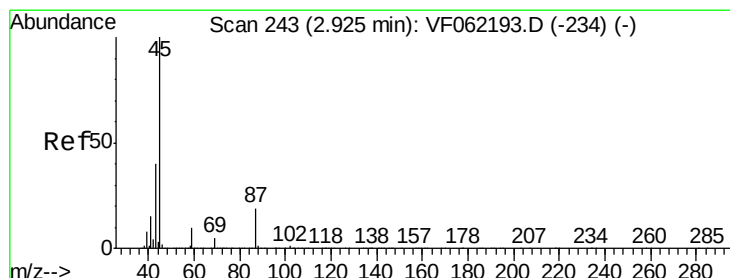
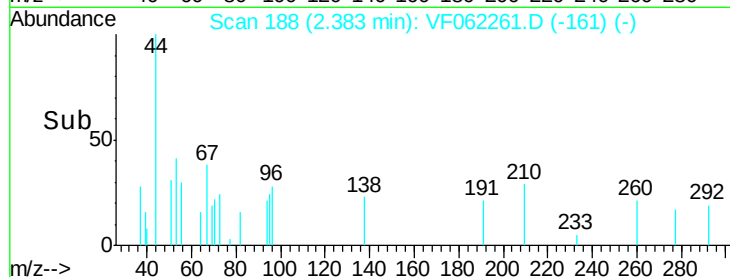
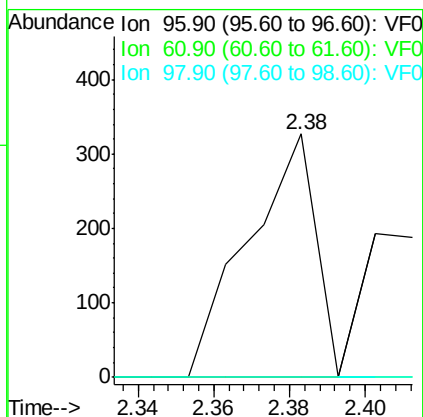
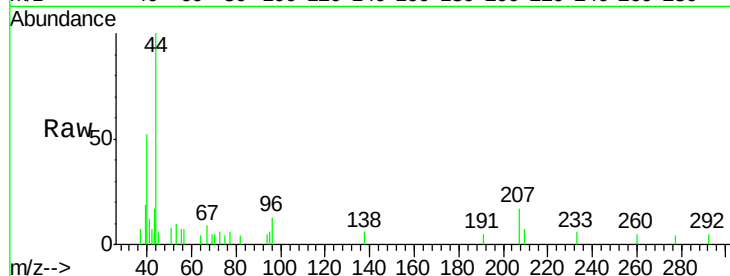
Tot Ion: 96 Resp: 404

Ion Ratio Lower Upper

96 100

61 0.0 114.6 172.0#

98 0.0 51.2 76.8#



#22

Diisopropyl ether

Concen: 68.803 ug/l

RT: 2.85 min Scan# 235

Delta R.T. -0.08 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Tgt Ion: 45 Resp: 180

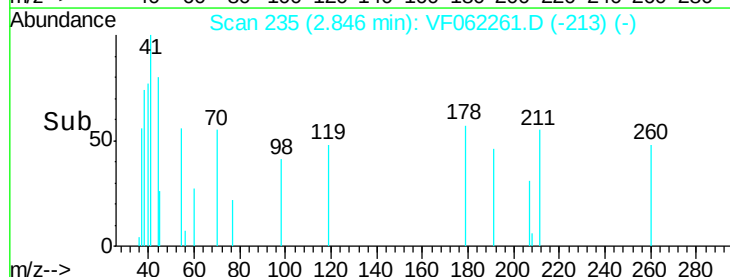
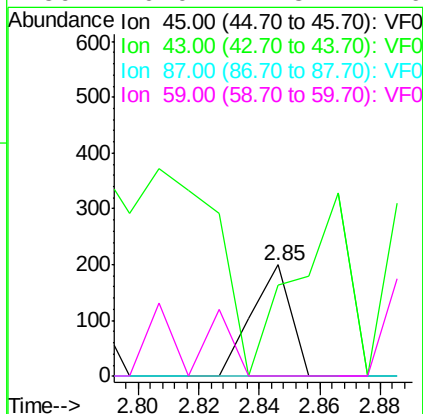
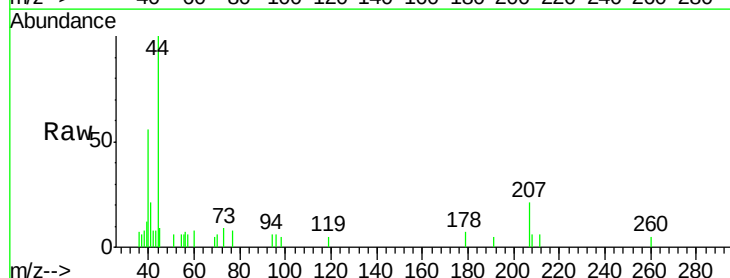
Ion Ratio Lower Upper

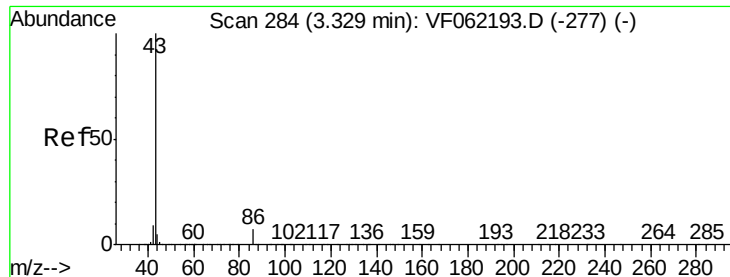
45 100

43 0.0 32.8 49.2#

87 0.0 15.2 22.8#

59 0.0 7.8 11.6#





#23

Vinyl Acetate

Concen: 369.047 ug/l

RT: 3.26 min Scan# 277

Delta R.T. -0.07 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

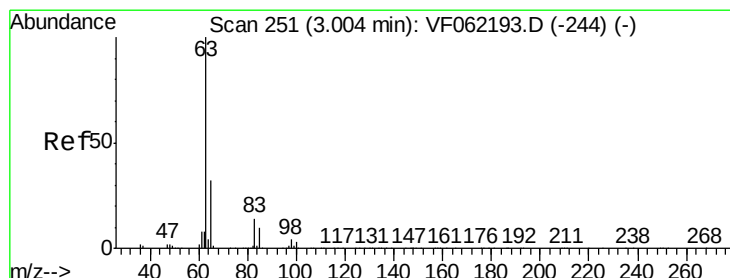
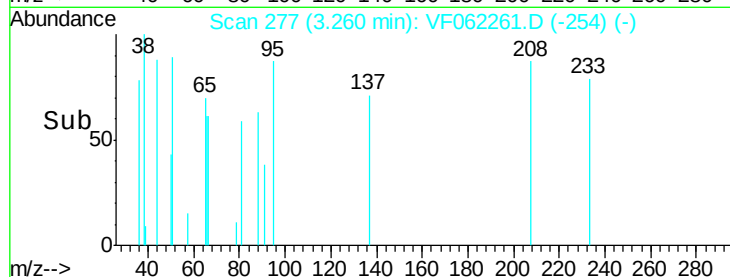
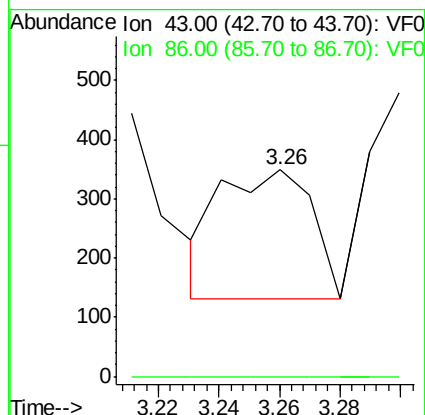
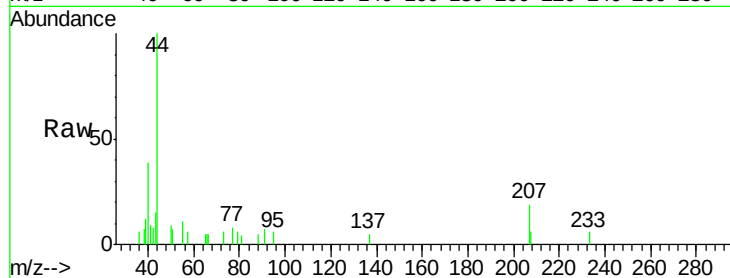
ClientSampleId :

Tot Ion: 43 Resp: 460

Ion Ratio Lower Upper

43 100

86 0.0 5.9 8.9#



#24

1,1-Dichloroethane

Concen: 91.537 ug/l

RT: 2.97 min Scan# 248

Delta R.T. -0.03 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

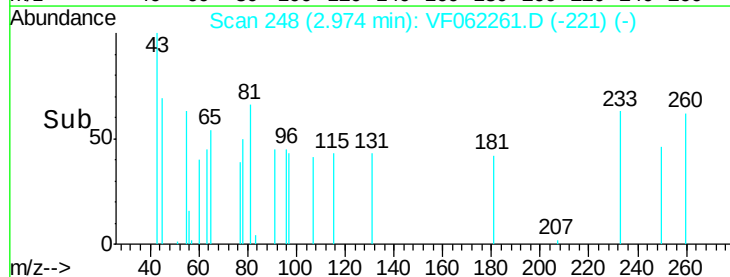
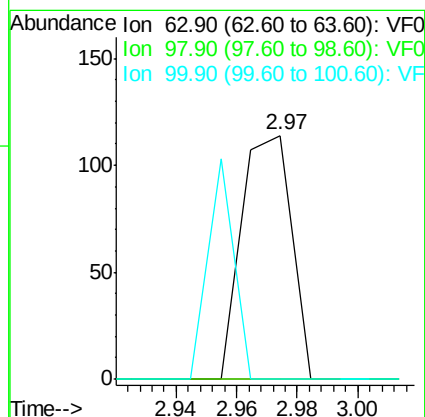
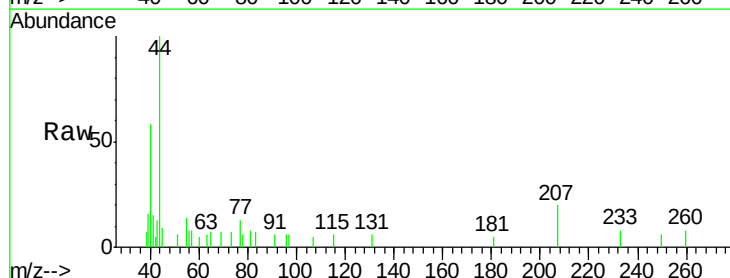
Tgt Ion: 63 Resp: 131

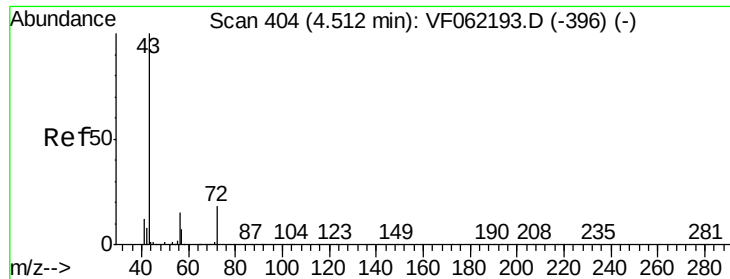
Ion Ratio Lower Upper

63 100

98 0.0 2.3 6.8#

100 0.0 1.7 5.0#

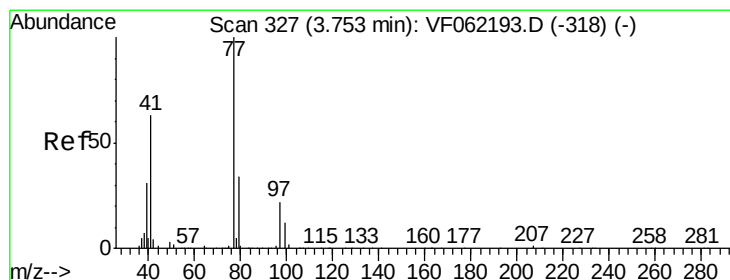
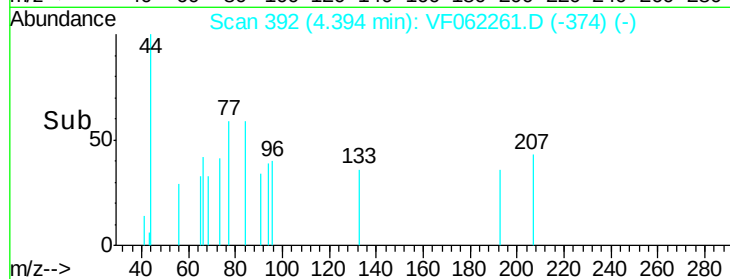
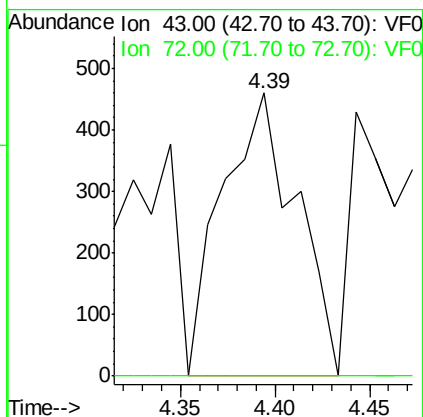
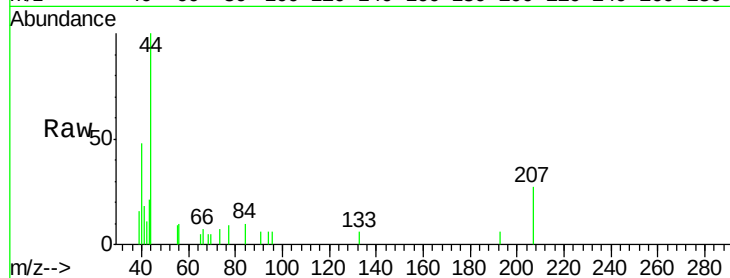




#25
 2-Butanone
 Concen: 3579.588 ug/l
 RT: 4.39 min Scan# 392
 Delta R.T. -0.12 min
 Lab File: VF062261.D
 Acq: 23 Apr 2019 13:59

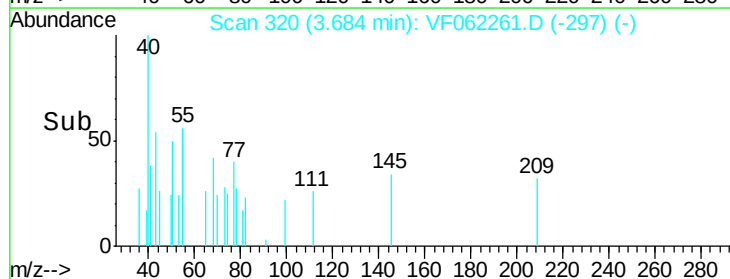
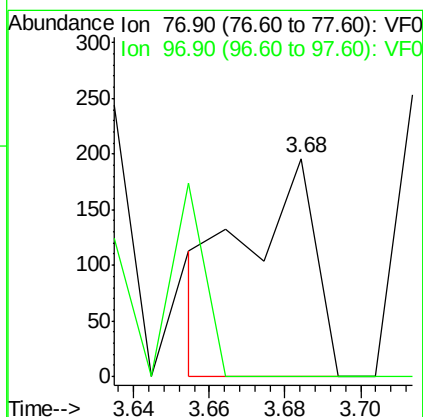
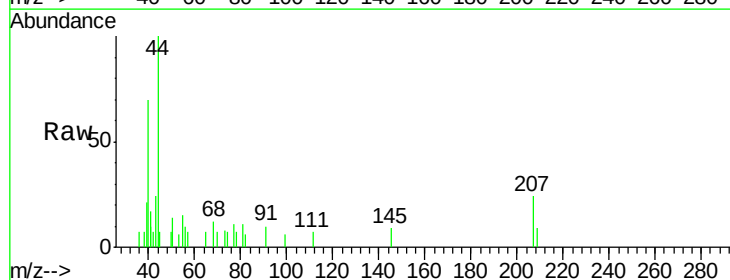
Instrument :
 MSVOA_F
 ClientSampled :

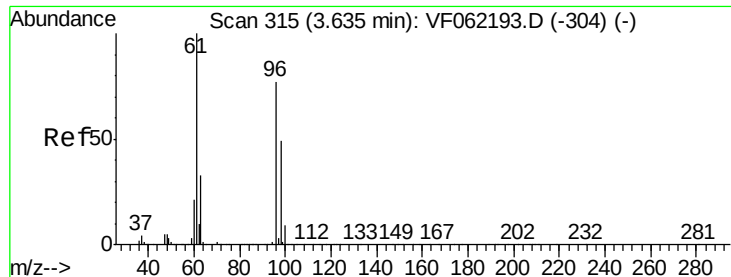
Tot Ion: 43 Resp: 1255
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.1 24.1#



#26
 2,2-Dichloropropane
 Concen: 354.310 ug/l
 RT: 3.68 min Scan# 320
 Delta R.T. -0.07 min
 Lab File: VF062261.D
 Acq: 23 Apr 2019 13:59

Tgt Ion: 77 Resp: 256
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.1 33.3#



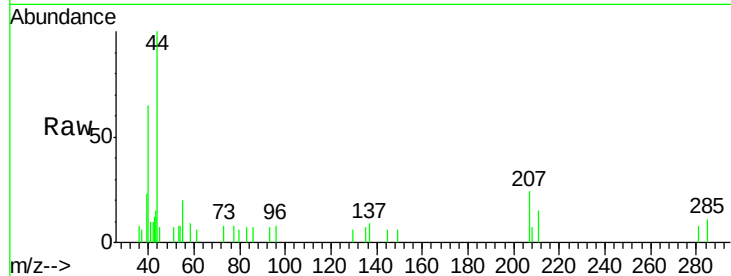


#27

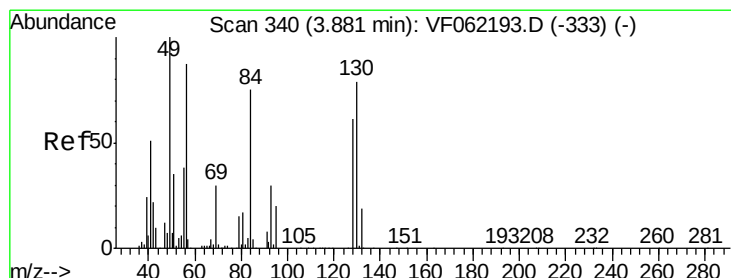
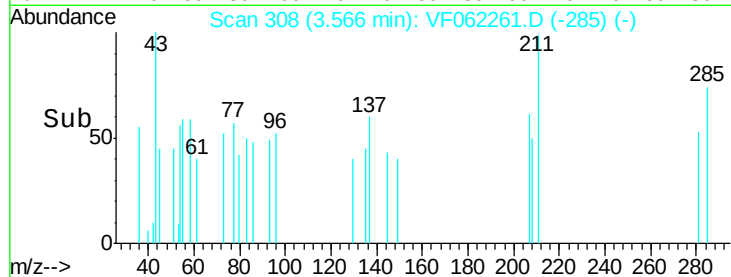
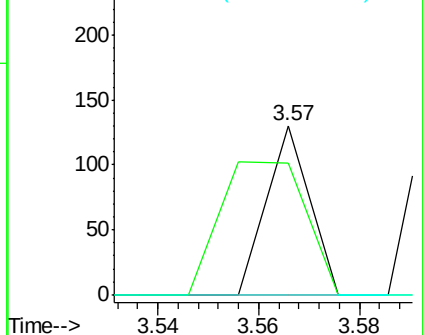
cis-1,2-Dichloroethene
Concen: 67.469 ug/l
RT: 3.57 min Scan# 308
Delta R.T. -0.07 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
96	100		
61	155.8	0.0	253.6
98	0.0	0.0	124.8



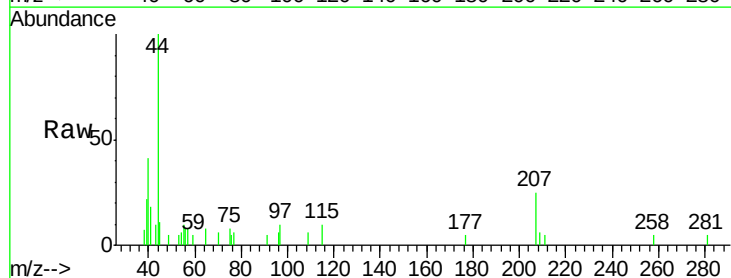
Abundance Ion 95.90 (95.60 to 96.60): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 97.90 (97.60 to 98.60): VF0



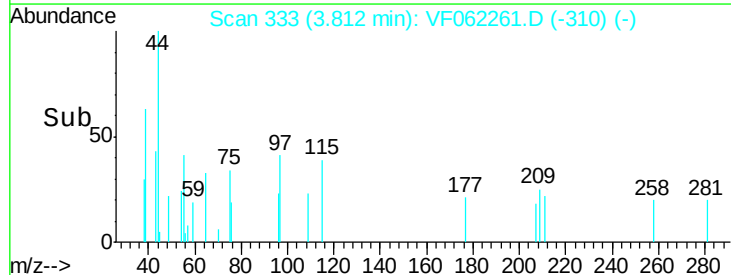
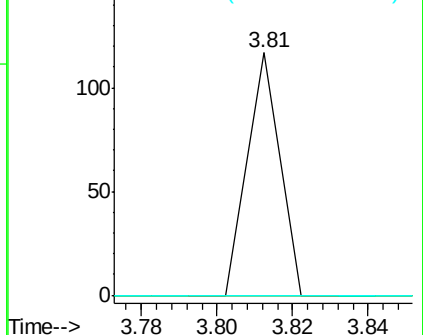
#28

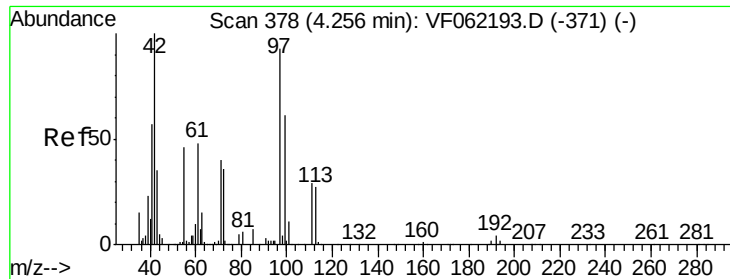
Bromochloromethane
Concen: 100.649 ug/l
RT: 3.81 min Scan# 333
Delta R.T. -0.07 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	0.0	66.6	100.0#



Abundance Ion 48.90 (48.60 to 49.60): VF0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

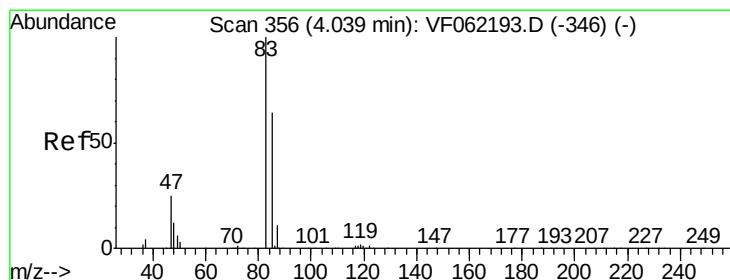
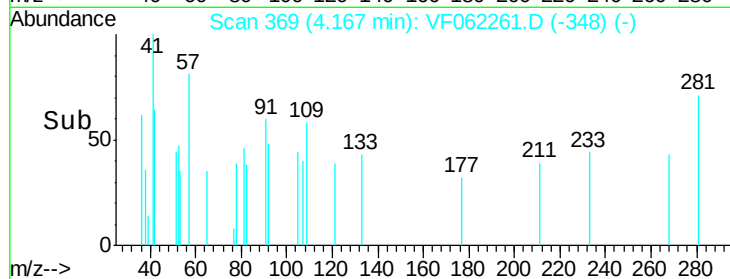
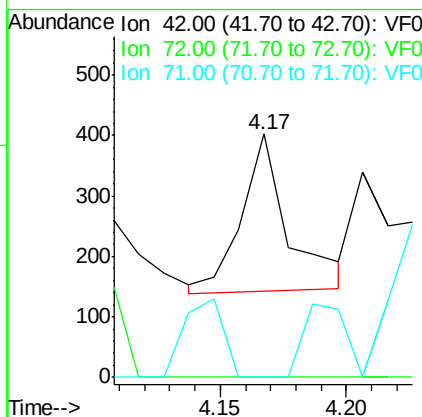
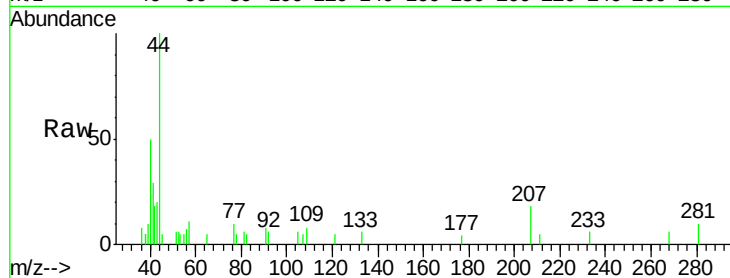




#29
Tetrahydrofuran
Concen: 2117.291 ug/l
RT: 4.17 min Scan# 369
Delta R.T. -0.09 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

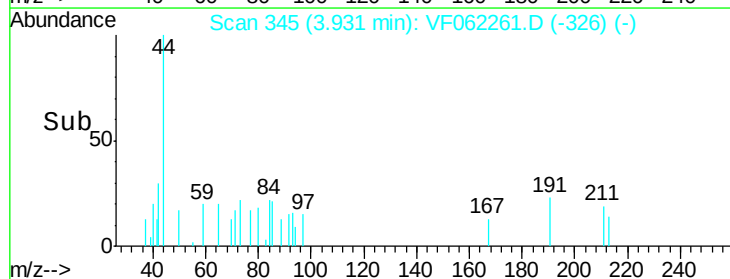
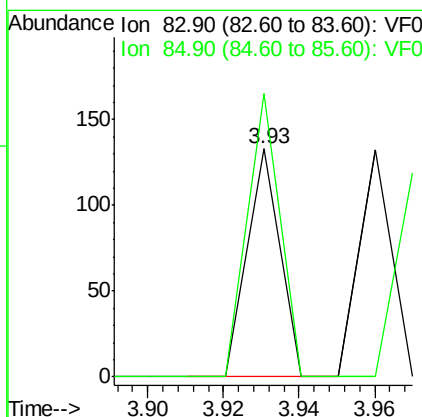
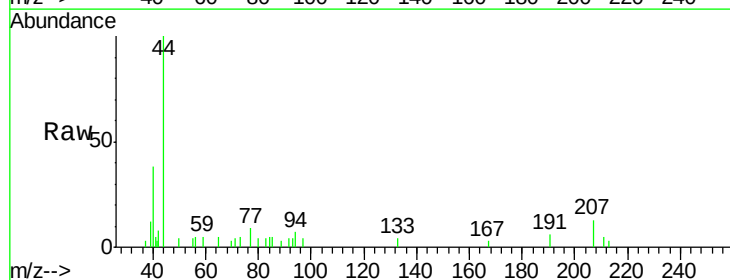
Instrument :
MSVOA_F
ClientSampleId :

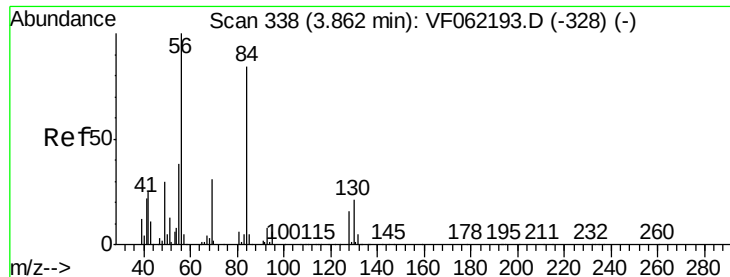
Tot Ion: 42 Resp: 336
Ion Ratio Lower Upper
42 100
72 0.0 28.6 43.0#
71 41.4 29.2 43.8



#30
Chloroform
Concen: 44.917 ug/l
RT: 3.93 min Scan# 345
Delta R.T. -0.11 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Tgt Ion: 83 Resp: 79
Ion Ratio Lower Upper
83 100
85 124.1 51.8 77.8#





#31

Cyclohexane

Concen: 206.992 ug/l

RT: 3.81 min Scan# 333

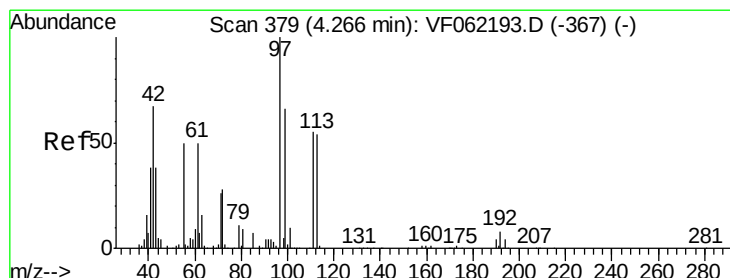
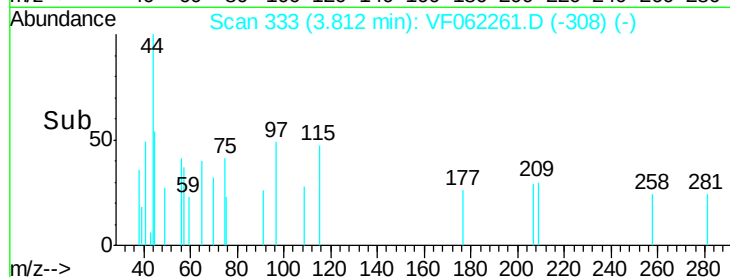
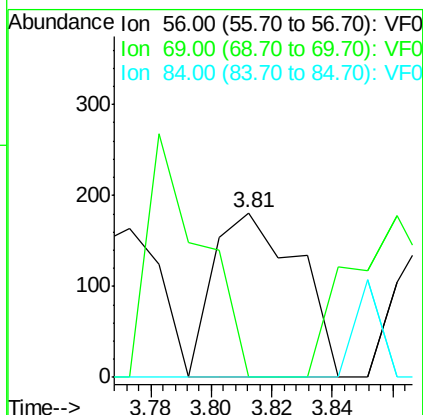
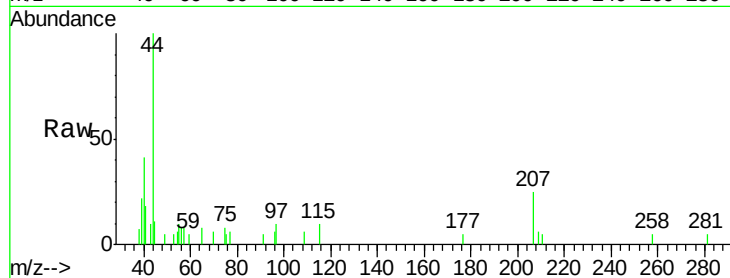
Delta R.T. -0.05 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	56	Resp:	355
Ion	Ratio	Lower	Upper
56	100		
69	0.0	25.1	37.7#
84	0.0	67.8	101.6#



#32

1,1,1-Trichloroethane

Concen: 54.373 ug/l

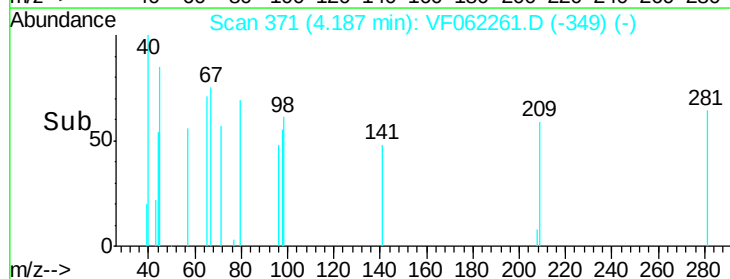
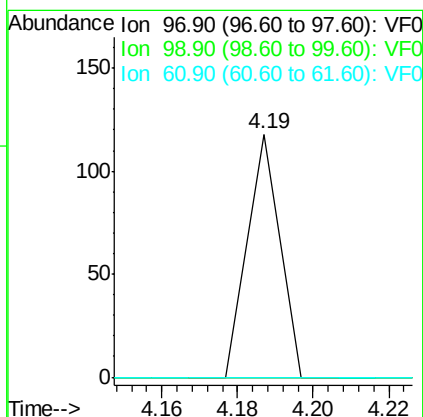
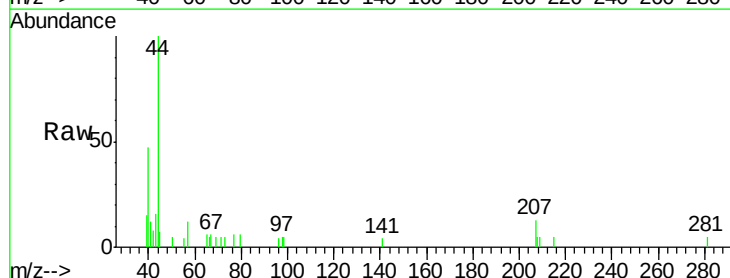
RT: 4.19 min Scan# 371

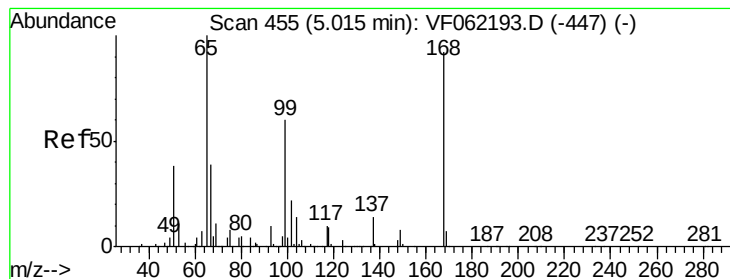
Delta R.T. -0.08 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Tgt Ion:	97	Resp:	70
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.7	79.1#
61	0.0	53.0	79.4#





#33

1,2-Dichloroethane-d4

Concen: 54.373 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.03 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

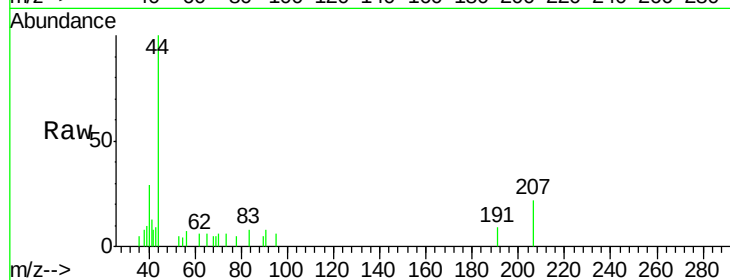
ClientSampleId :

Tot Ion: 65 Resp: 154

Ion Ratio Lower Upper

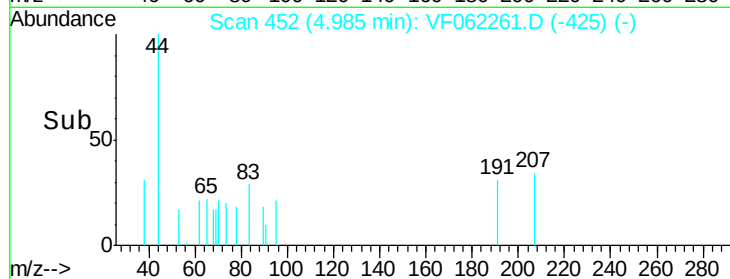
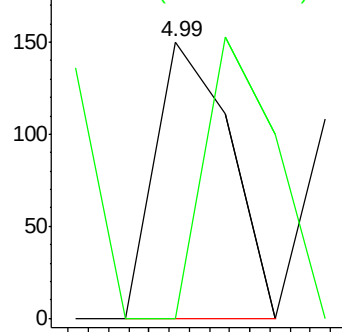
65 100

67 97.4 0.0 109.4

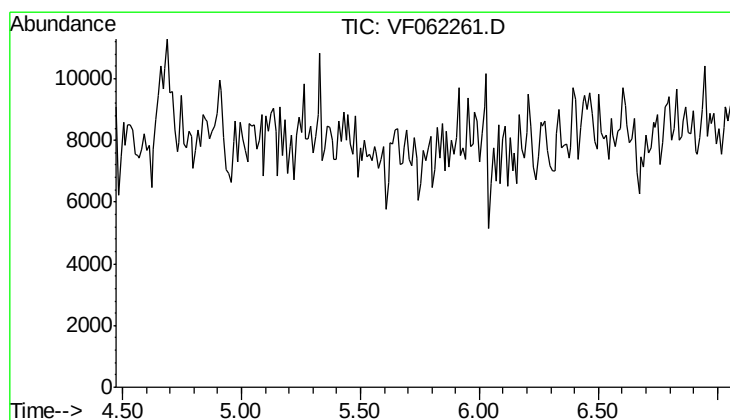


Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



Time-->



#34

1,4-Difluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.76 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

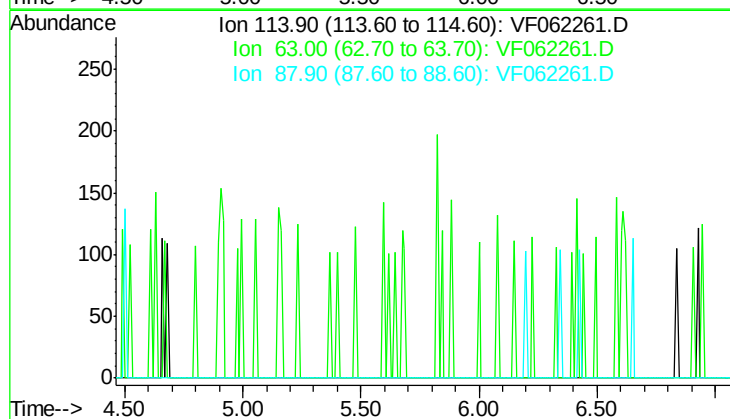
Tgt Ion: 114

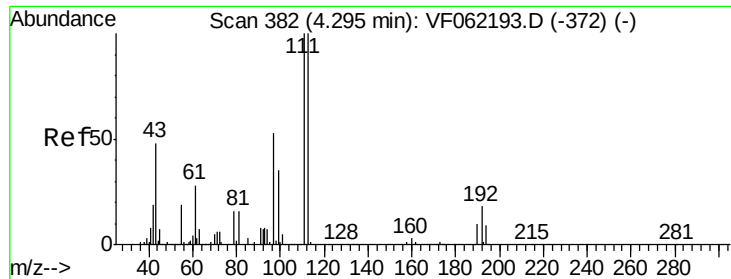
Sig Exp Ratio

114 100

63 18.3

88 17.9





#35

Dibromofluoromethane

Concen: 0.000 ug/l

RT: 4.47 min Scan# 400

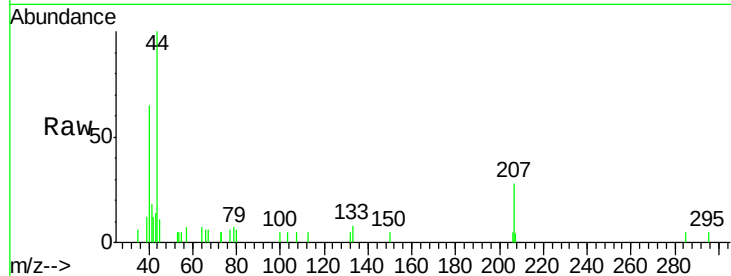
Delta R.T. 0.18 min

Lab File: VF062261.D

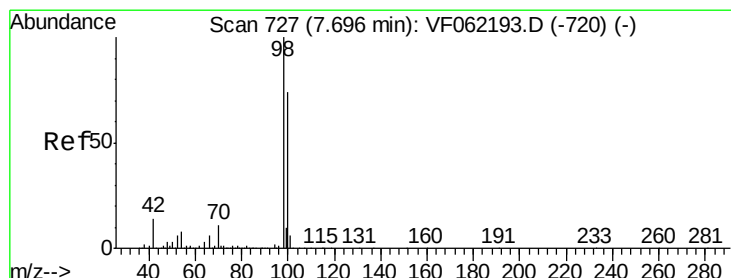
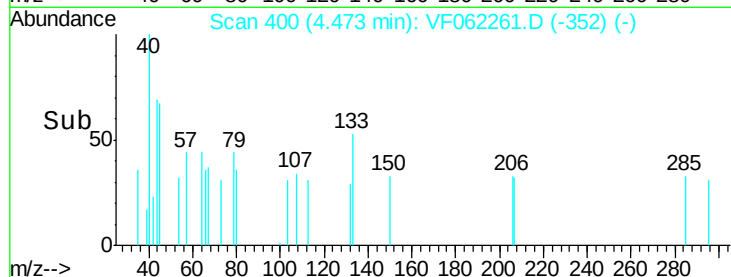
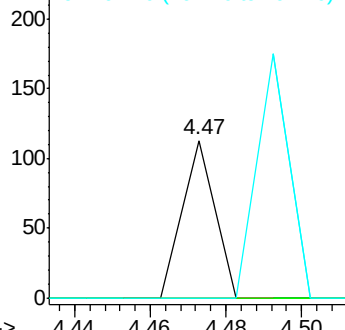
Acq: 23 Apr 2019 13:59

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:113 Resp: 67
Ion Ratio Lower Upper
113 100
111 0.0 81.1 121.7#
192 155.2 14.7 22.1#



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



#50

Toluene-d8

Concen: N.D. ug/l

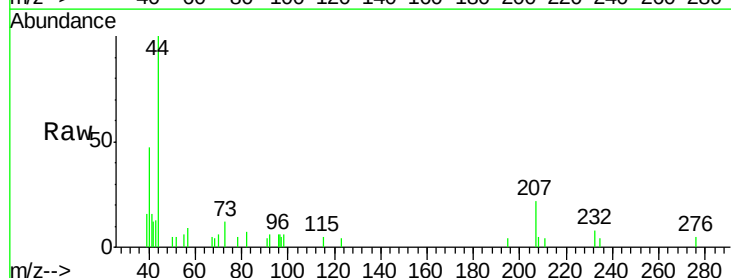
RT: 7.73 min Scan# 730

Delta R.T. 0.03 min

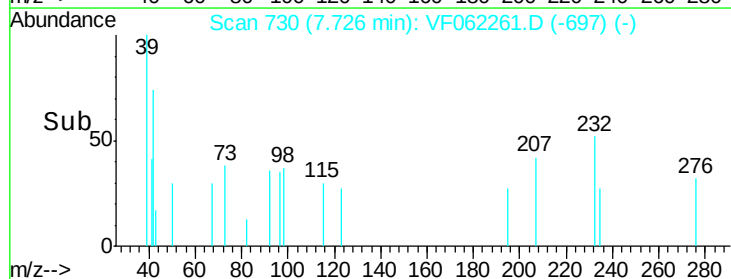
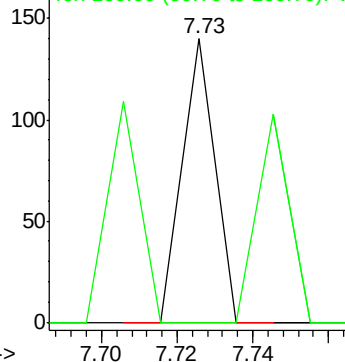
Lab File: VF062261.D

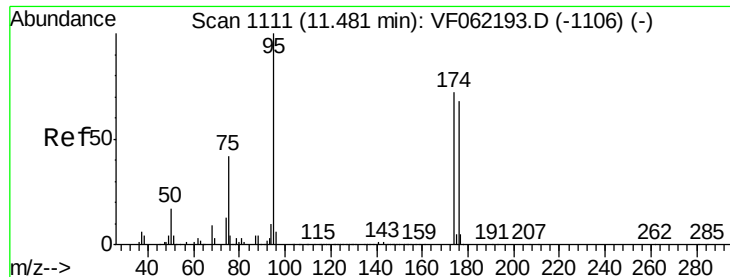
Acq: 23 Apr 2019 13:59

Tgt Ion: 98 Resp: 83
Ion Ratio Lower Upper
98 100
100 73.5 56.2 84.2



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.02 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

ClientSampled :

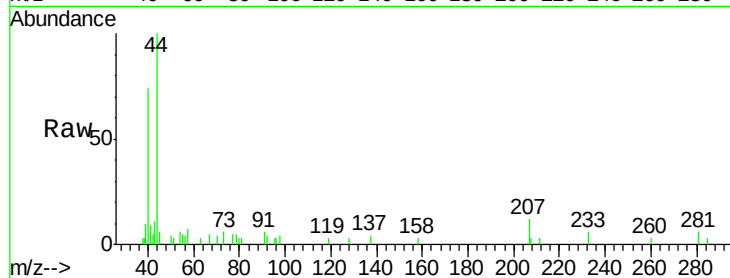
Tot Ion: 95 Resp: 69

Ion Ratio Lower Upper

95 100

174 0.0 0.0 159.4

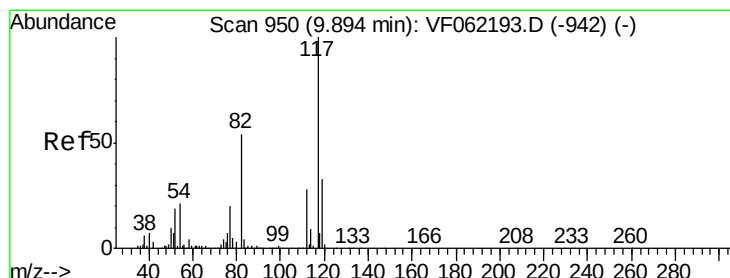
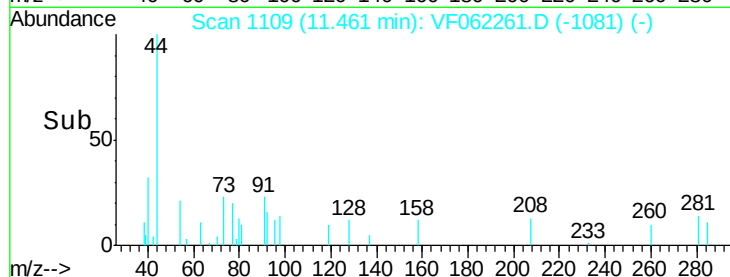
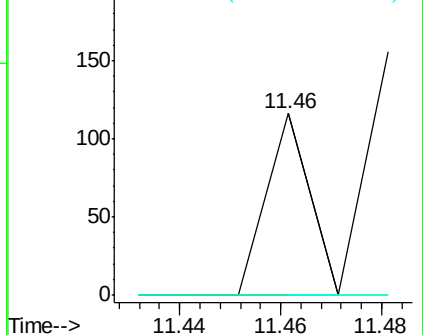
176 0.0 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VF0

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: 9.90 min Scan# 951

Delta R.T. 0.01 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

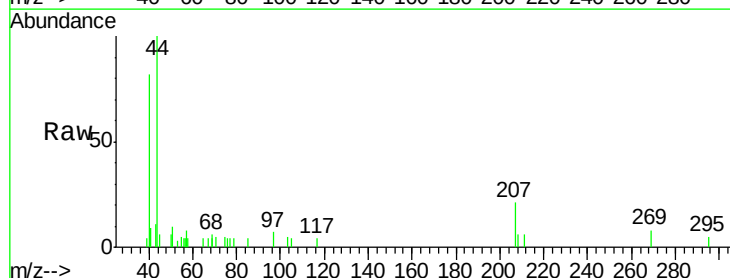
Tgt Ion: 117 Resp: 64

Ion Ratio Lower Upper

117 100

82 0.0 43.2 64.8#

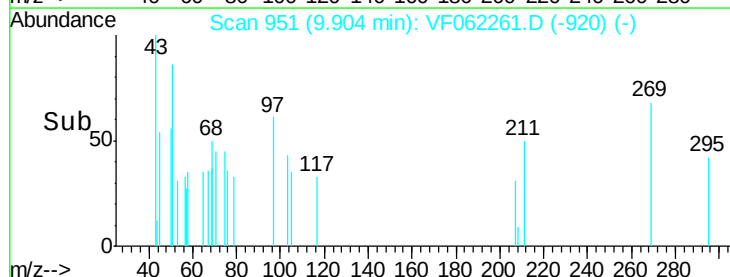
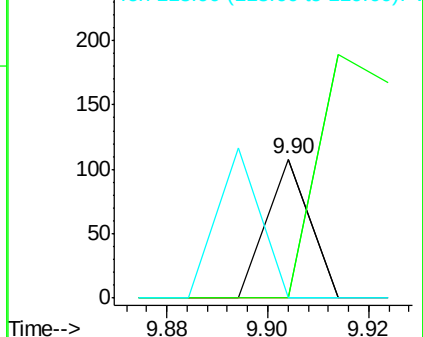
119 0.0 26.2 39.4#

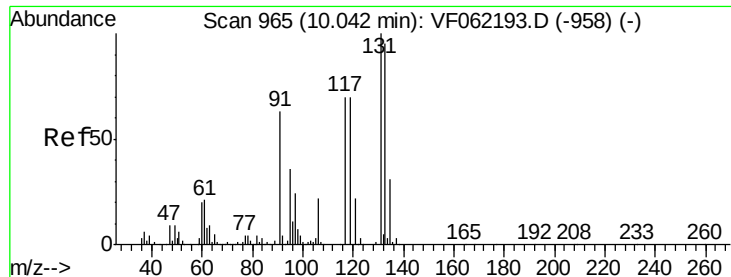


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 158.043 ug/l

RT: 10.11 min Scan# 972

Delta R.T. 0.07 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

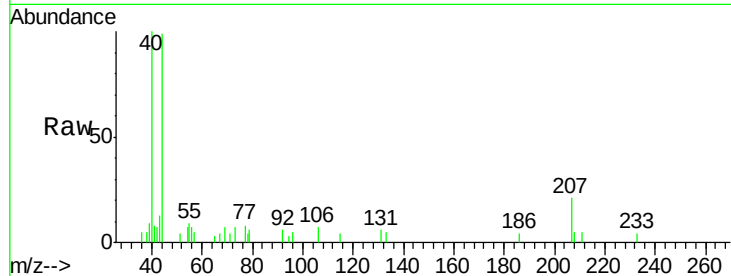
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:131 Resp: 101

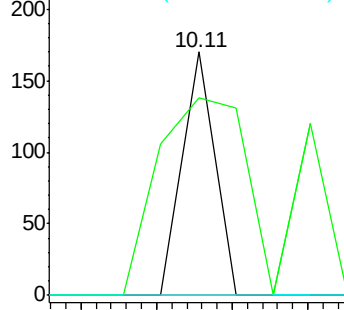
Ion	Ratio	Lower	Upper
131	100		
133	290.1	47.7	143.1#
119	0.0	34.6	103.9#



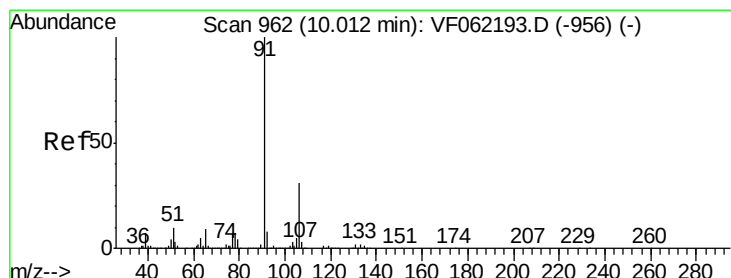
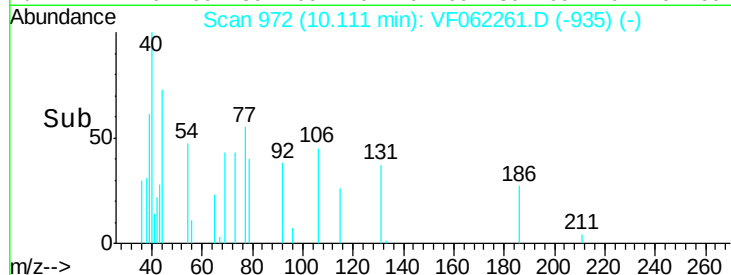
Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



Time-->



#67

Ethyl Benzene

Concen: 104.776 ug/l

RT: 10.02 min Scan# 963

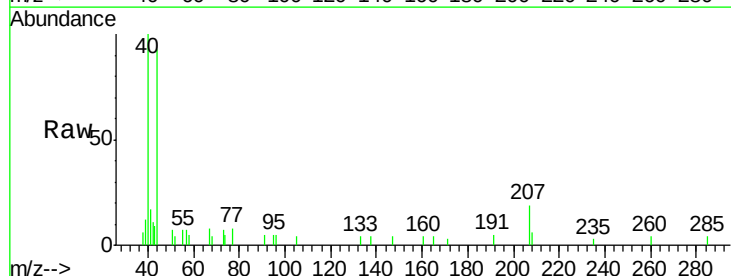
Delta R.T. 0.01 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

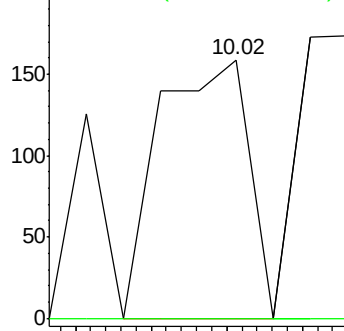
Tgt Ion: 91 Resp: 260

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.9	37.3#

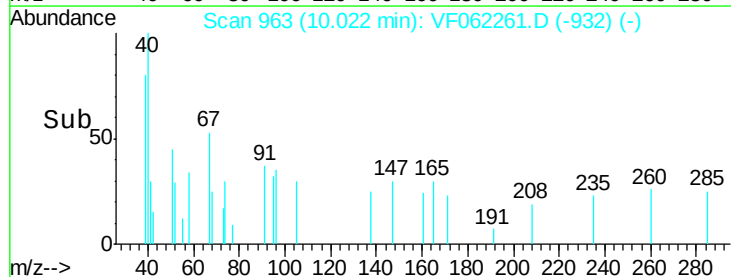


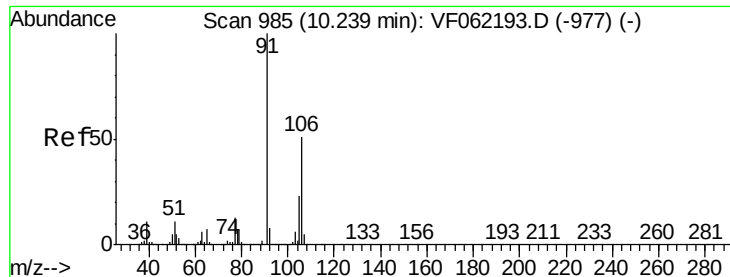
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



Time-->

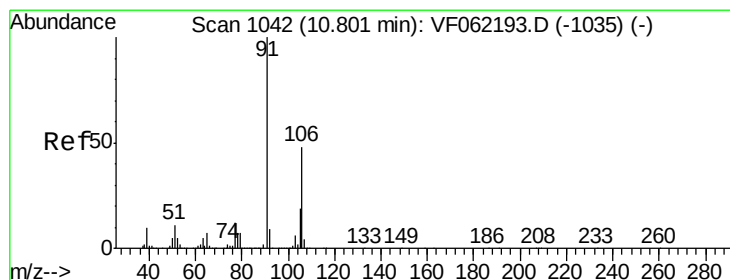
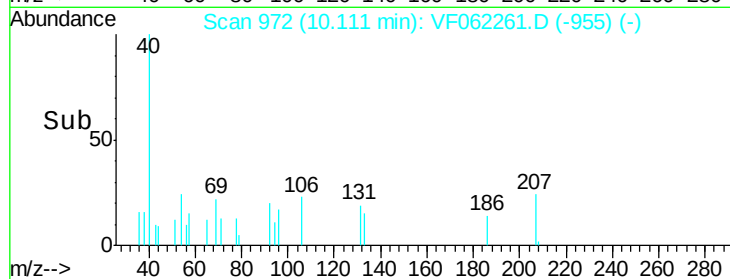
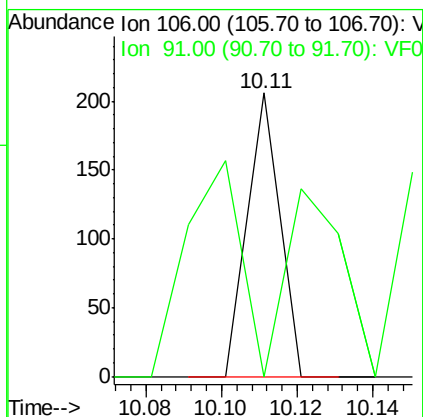
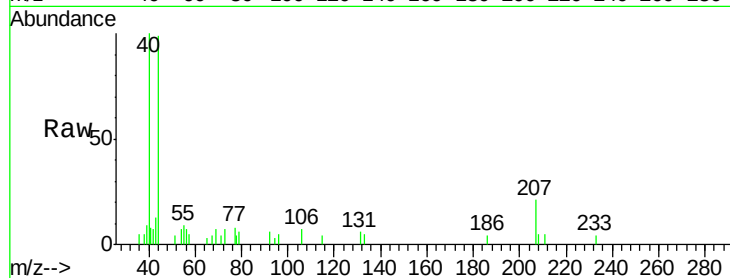




#68
m/p-Xylenes
Concen: 133.553 ug/l
RT: 10.11 min Scan# 972
Delta R.T. -0.13 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

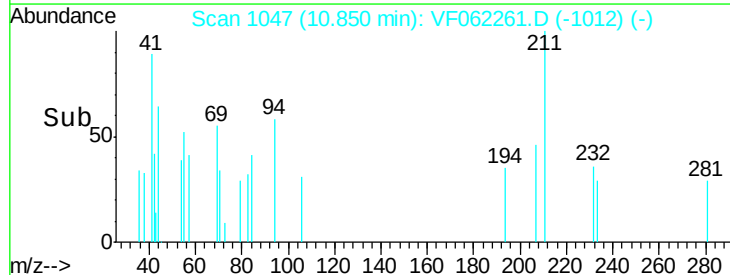
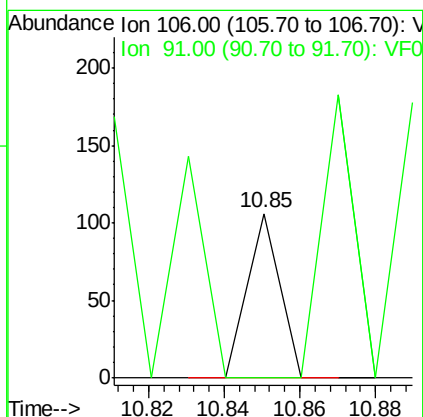
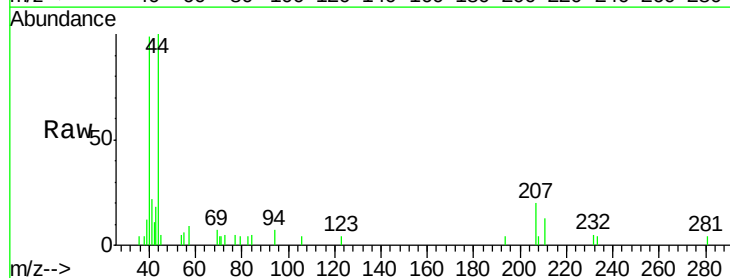
Instrument :
MSVOA_F
ClientSampleId :

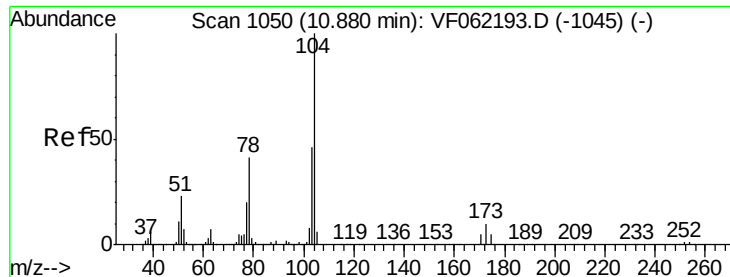
Tot Ion:106 Resp: 122
Ion Ratio Lower Upper
106 100
91 129.5 159.1 238.7#



#69
o-Xylene
Concen: 62.116 ug/l
RT: 10.85 min Scan# 1047
Delta R.T. 0.05 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Tgt Ion:106 Resp: 63
Ion Ratio Lower Upper
106 100
91 171.4 107.5 322.4





#70

Stvrene

Concen: 53.099 ug/l

RT: 10.79 min Scan# 1041

Delta R.T. -0.09 min

Lab File: VF062261.D

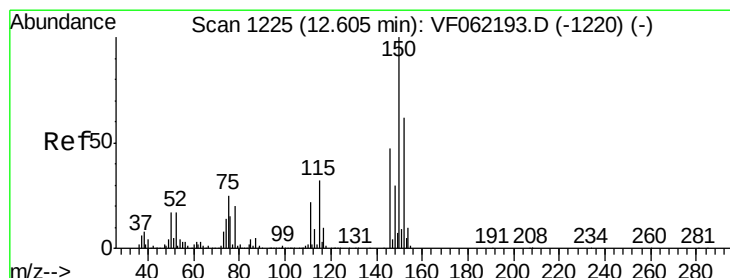
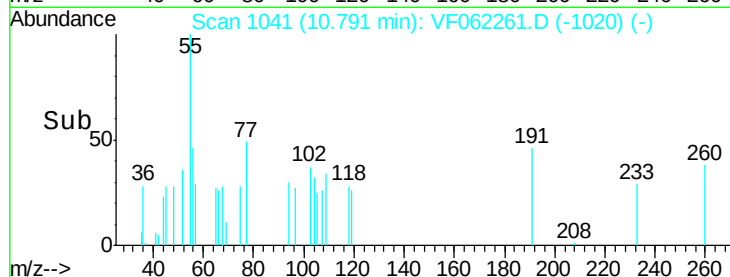
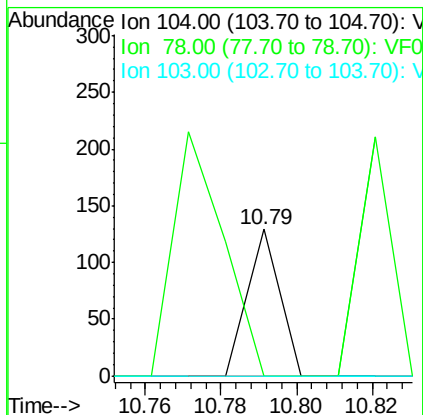
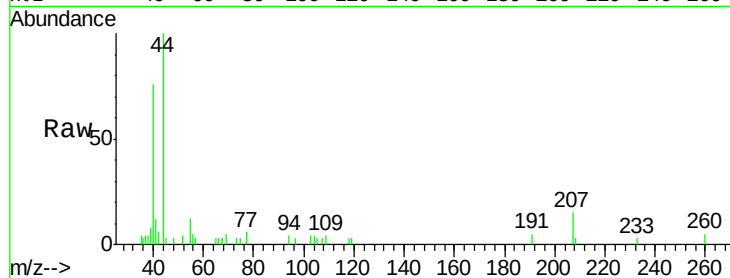
Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

ClientSampled :

Tot Ion:	104	Resp:	76
Ion	Ratio	Lower	Upper
104	100		
78	259.2	34.5	51.7#
103	0.0	37.2	55.8#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

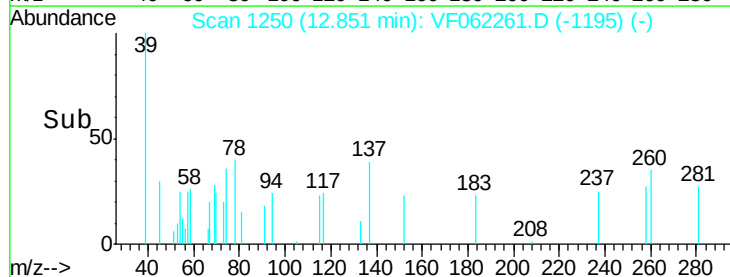
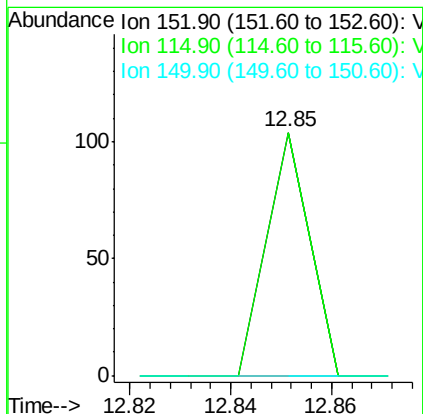
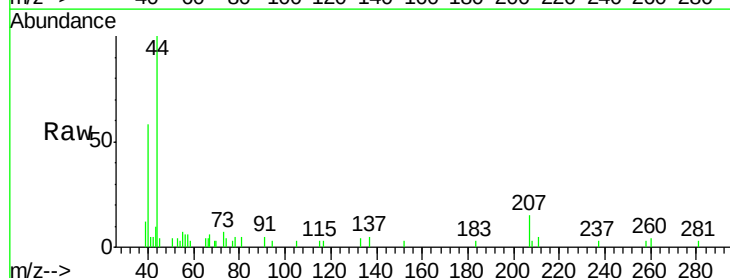
RT: 12.85 min Scan# 1250

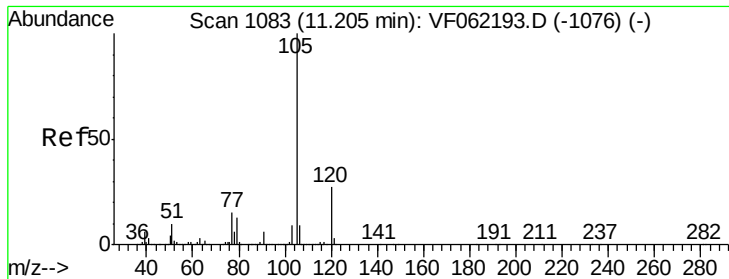
Delta R.T. 0.25 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Tgt Ion:	152	Resp:	62
Ion	Ratio	Lower	Upper
152	100		
115	100.0	27.8	83.3#
150	0.0	0.0	341.8





#73

Isopropylbenzene

Concen: 20.842 ug/l

RT: 11.23 min Scan# 1086

Delta R.T. 0.03 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

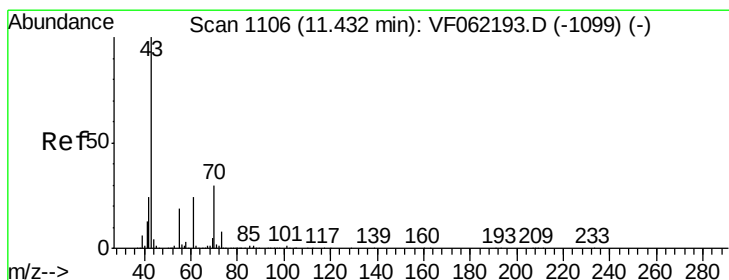
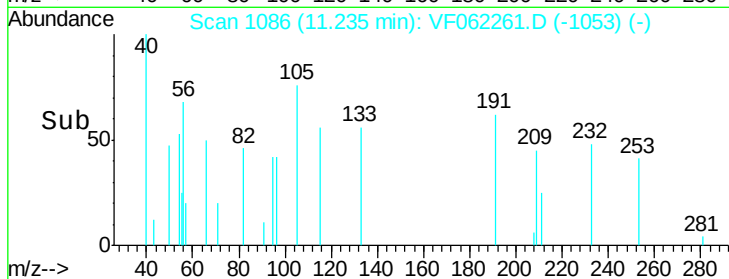
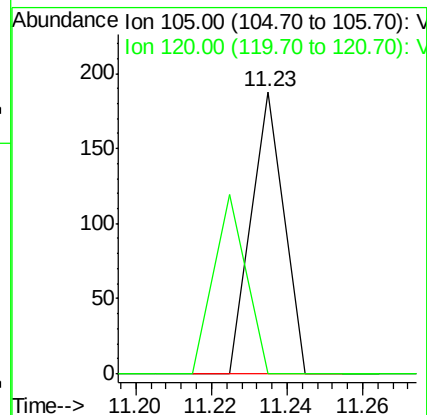
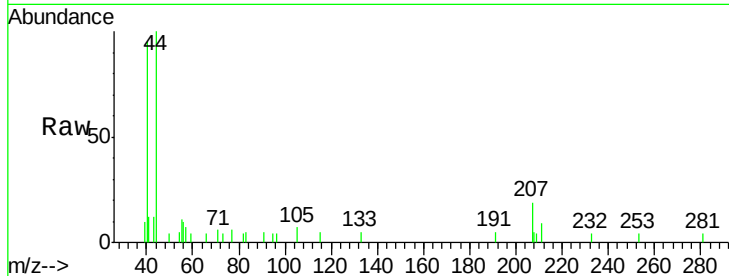
ClientSampleId :

Tot Ion:105 Resp: 111

Ion Ratio Lower Upper

105 100

120 63.1 13.0 38.9#



#74

N-ethyl acetate

Concen: 1230.202 ug/l

RT: 11.42 min Scan# 1105

Delta R.T. -0.01 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Tgt Ion: 43 Resp: 1489

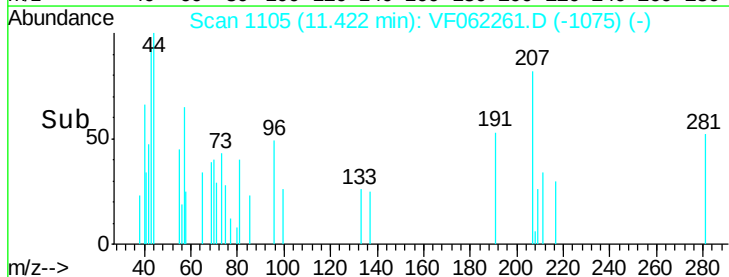
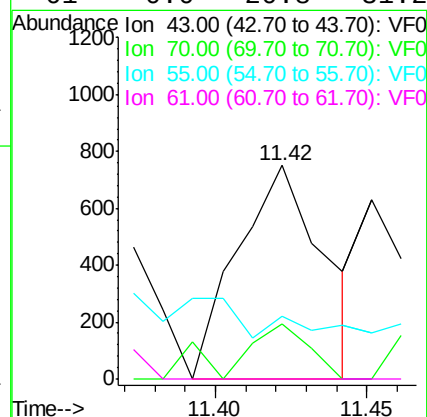
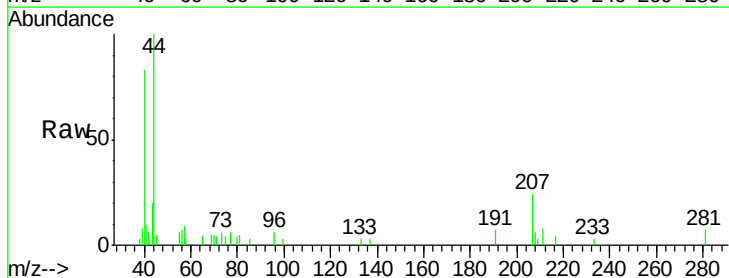
Ion Ratio Lower Upper

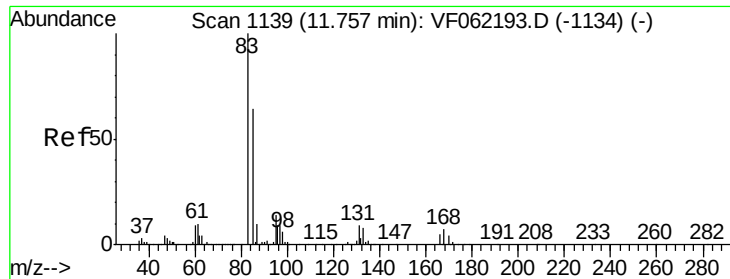
43 100

70 22.0 27.0 40.4#

55 0.0 15.7 23.5#

61 0.0 20.8 31.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 159.403 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.03 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

ClientSampleId :

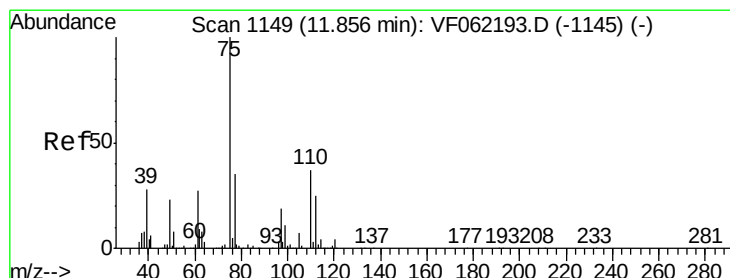
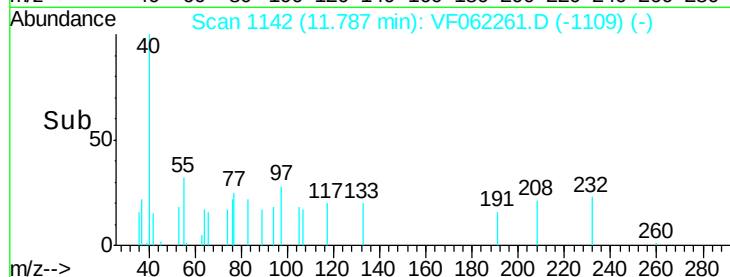
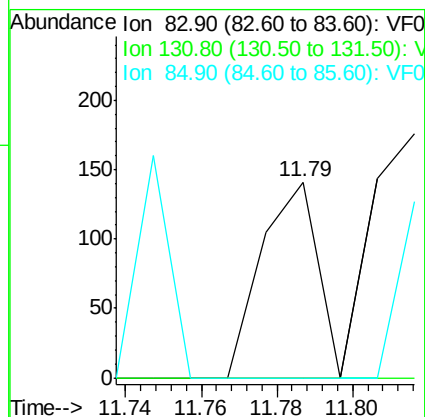
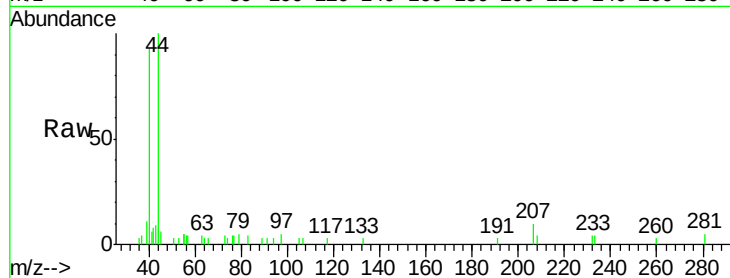
Tot Ion: 83 Resp: 146

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 0.0 34.7 104.1#



#76

1,2,3-Trichloropropane

Concen: 112.671 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VF062261.D

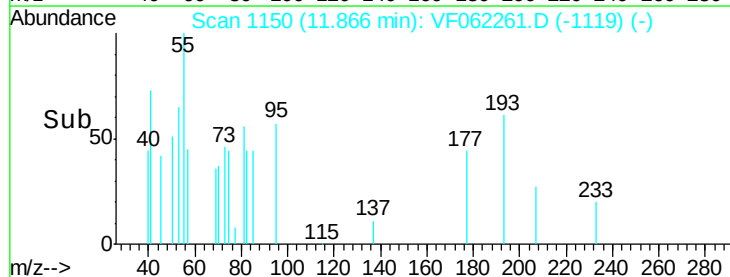
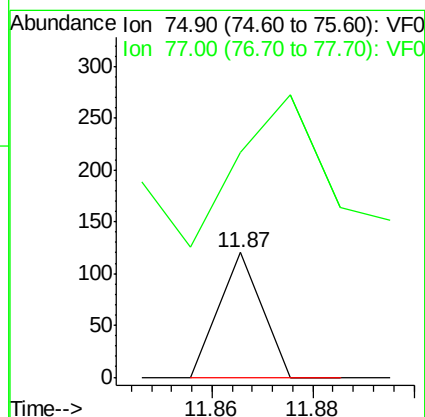
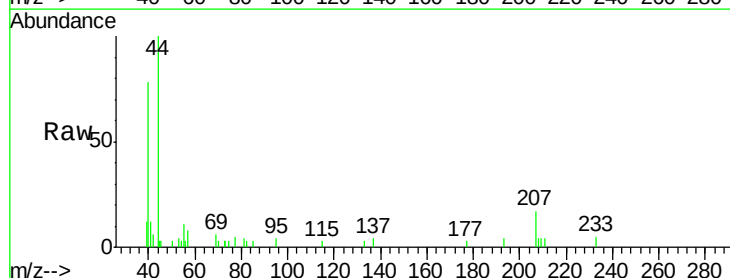
Acq: 23 Apr 2019 13:59

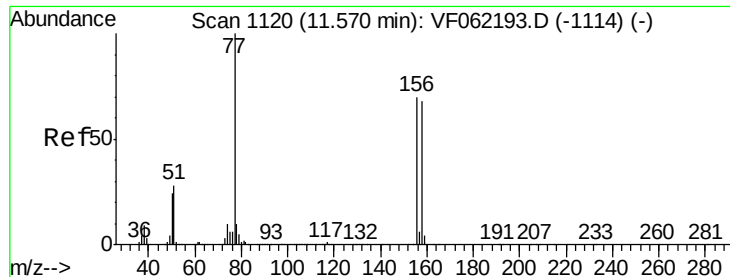
Tgt Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

77 415.5 7.4 22.2#





#77

Bromobenzene

Concen: 54.343 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.11 min

Lab File: VF062261.D

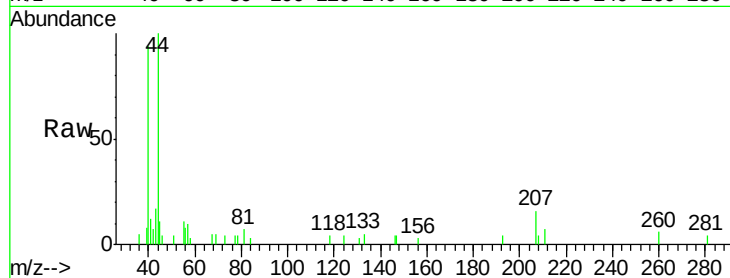
Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

ClientSampleId :

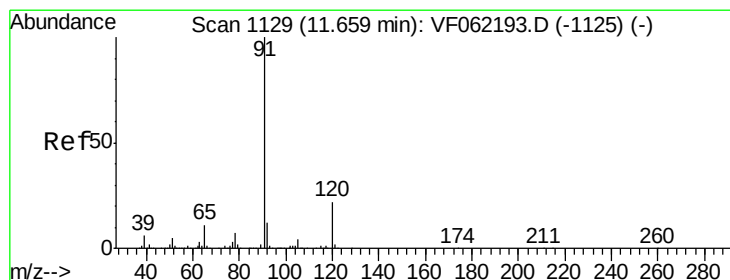
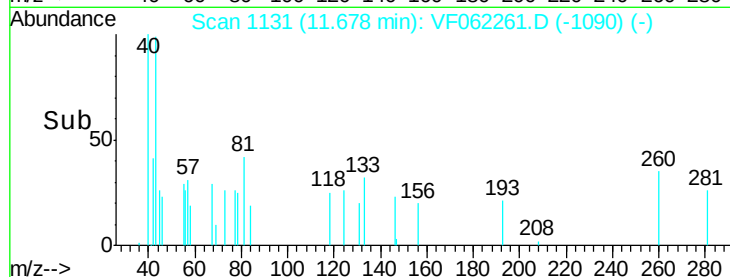
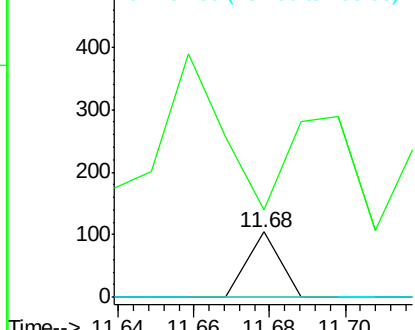
Tot Ion	156	Resp	62
Ion Ratio	100		
Lower	80.9		
Upper	242.7		
77	354.8		
158	0.0		
	49.8		
	149.4		



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 41.650 ug/l

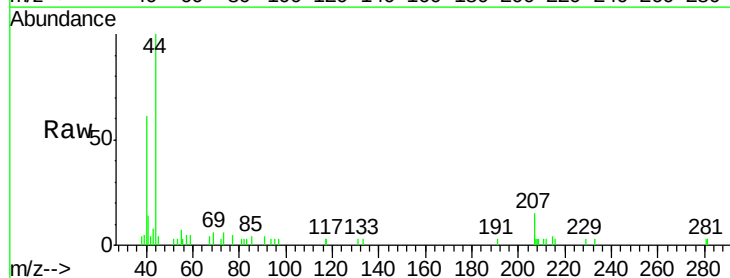
RT: 11.65 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VF062261.D

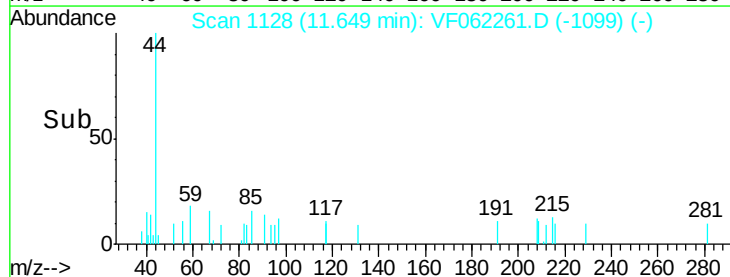
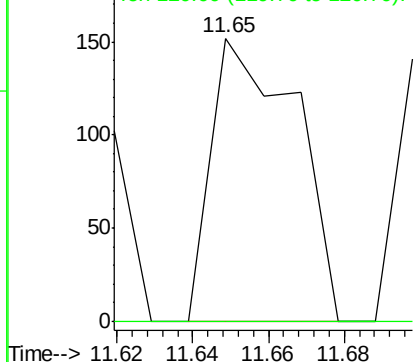
Acq: 23 Apr 2019 13:59

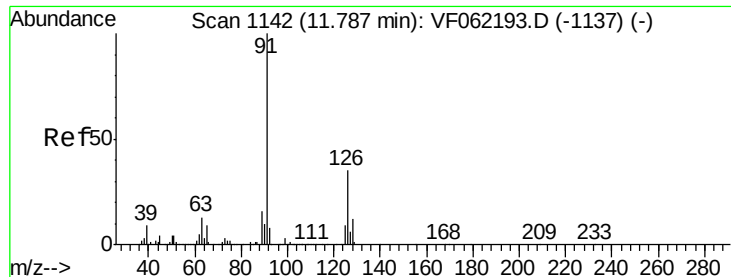
Tgt Ion	91	Resp	234
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower <td>11.2</td> <td></td> <td></td>	11.2		
Upper <td>33.6</td> <td></td> <td></td>	33.6		
120	0.0		



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 68.661 ug/l

RT: 11.65 min Scan# 1128

Delta R.T. -0.14 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

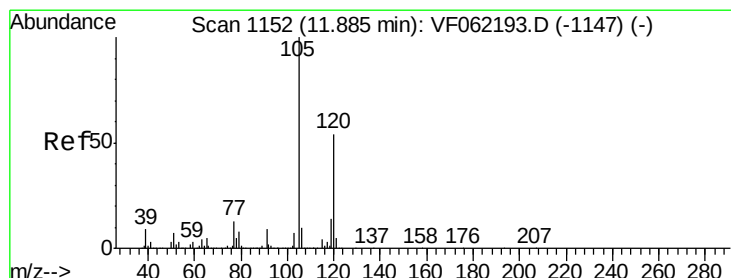
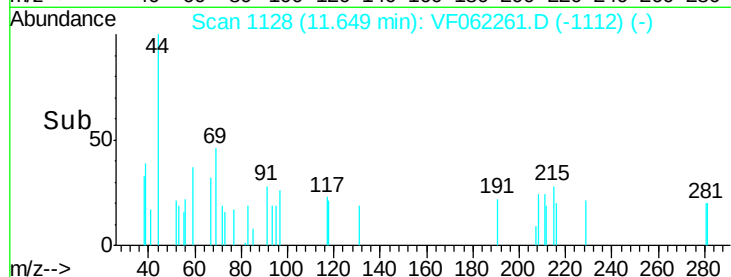
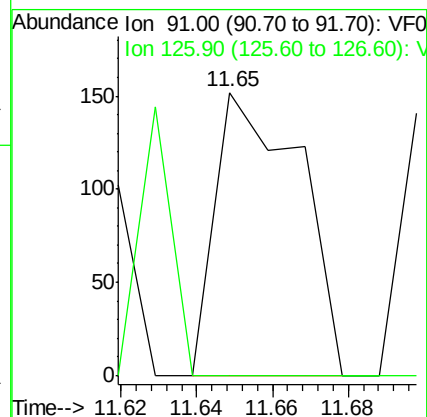
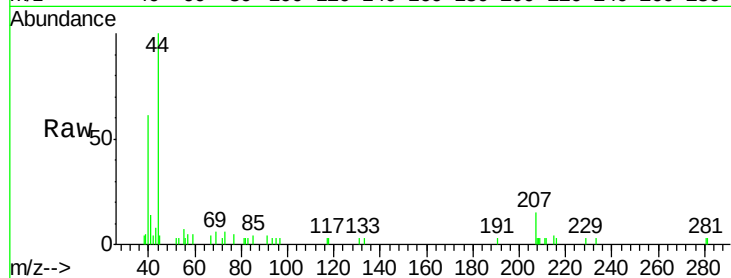
ClientSampleId :

Tot Ion: 91 Resp: 234

Ion Ratio Lower Upper

91 100

126 36.3 16.9 50.6



#80

1,3,5-Trimethylbenzene

Concen: 34.042 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.09 min

Lab File: VF062261.D

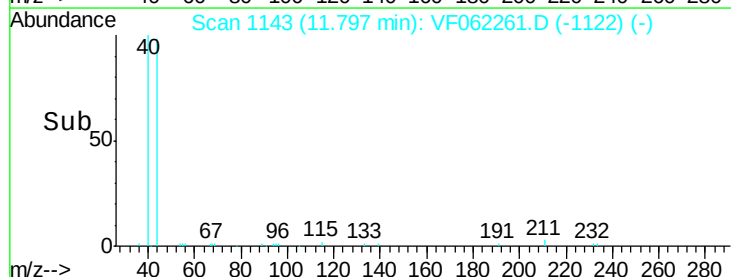
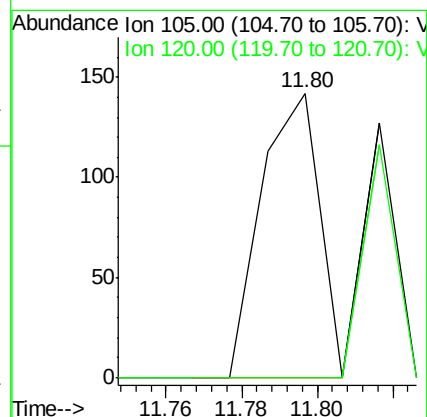
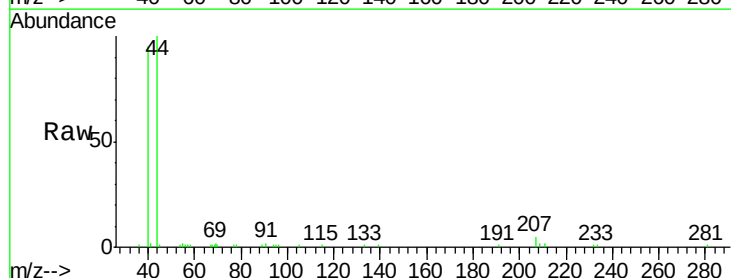
Acq: 23 Apr 2019 13:59

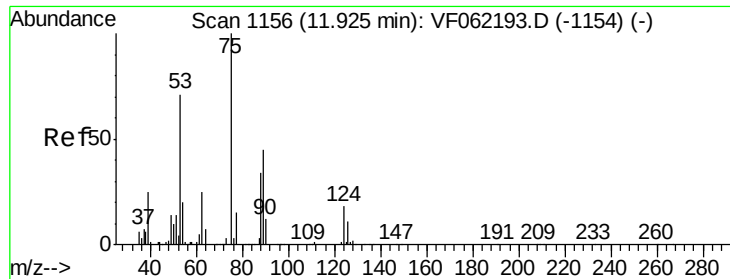
Tgt Ion:105 Resp: 151

Ion Ratio Lower Upper

105 100

120 45.7 26.2 78.5





#81

trans-1,4-Dichloro-2-butene

Concen: 684.554 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. 0.03 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

ClientSampleId :

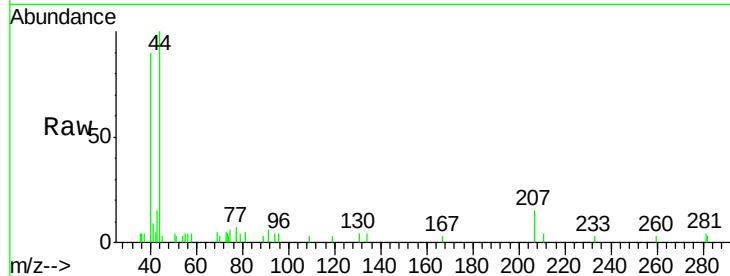
Tot Ion: 75 Resp: 220

Ion Ratio Lower Upper

75 100

53 31.8 50.2 75.4#

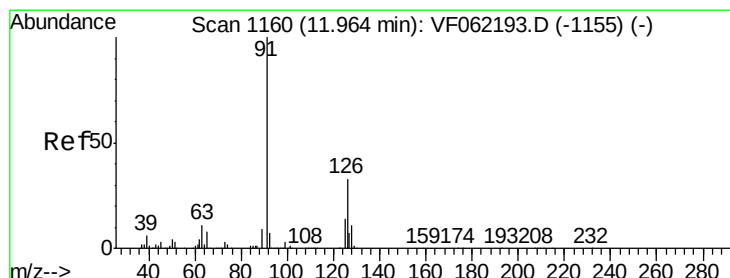
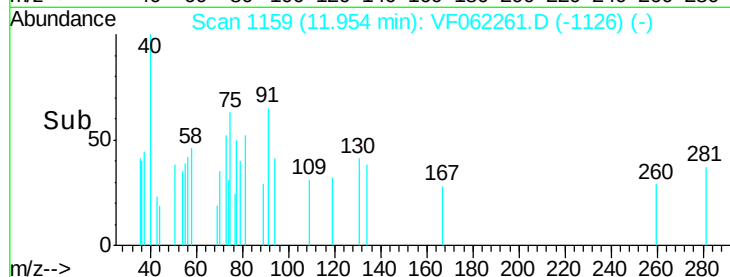
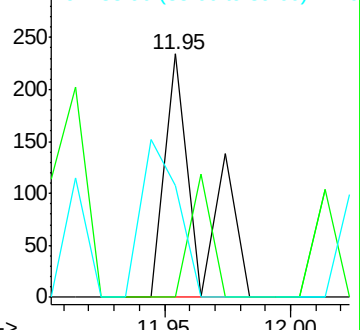
89 69.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#82

4-Chlorotoluene

Concen: 112.035 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. -0.01 min

Lab File: VF062261.D

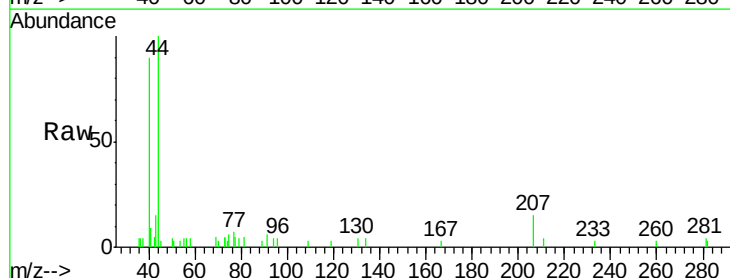
Acq: 23 Apr 2019 13:59

Tgt Ion: 91 Resp: 369

Ion Ratio Lower Upper

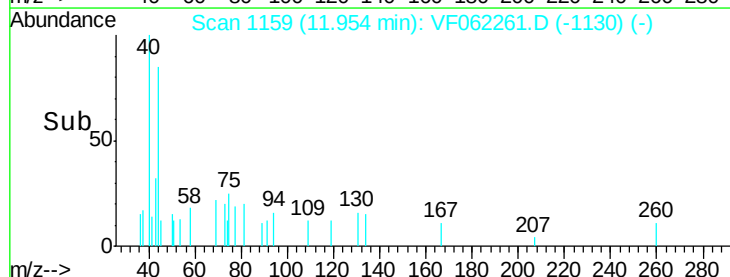
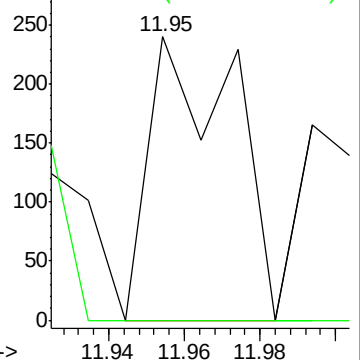
91 100

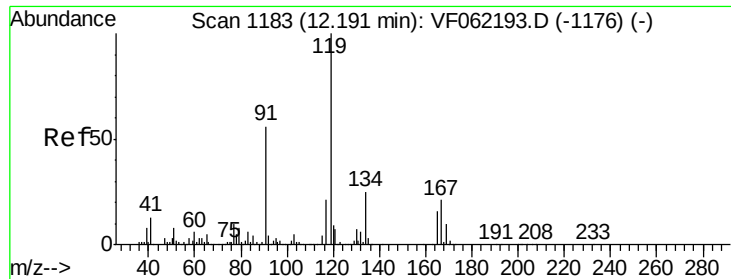
126 0.0 16.9 50.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 31.828 ug/l

RT: 12.19 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

ClientSampleId :

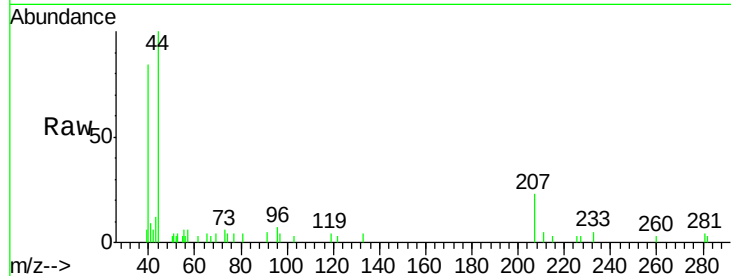
Tot Ion:119 Resp: 146

Ion Ratio Lower Upper

119 100

91 258.2 29.4 88.2#

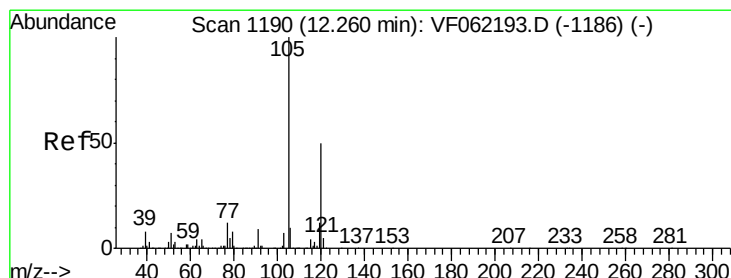
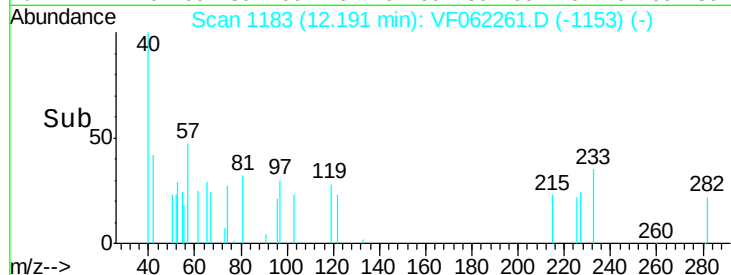
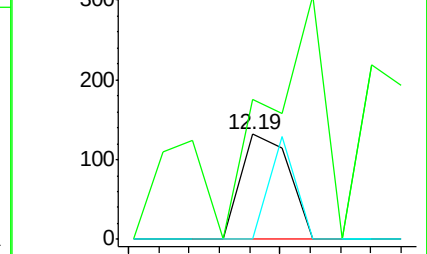
134 52.1 11.8 35.3#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 47.292 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. 0.01 min

Lab File: VF062261.D

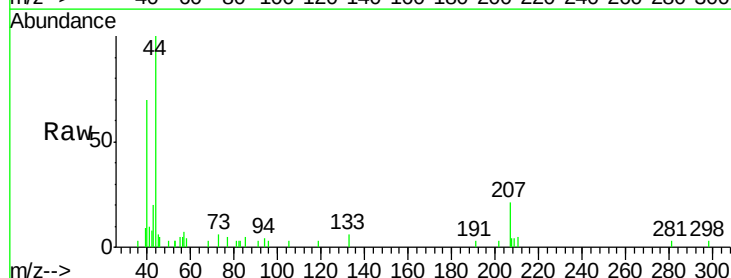
Acq: 23 Apr 2019 13:59

Tgt Ion:105 Resp: 203

Ion Ratio Lower Upper

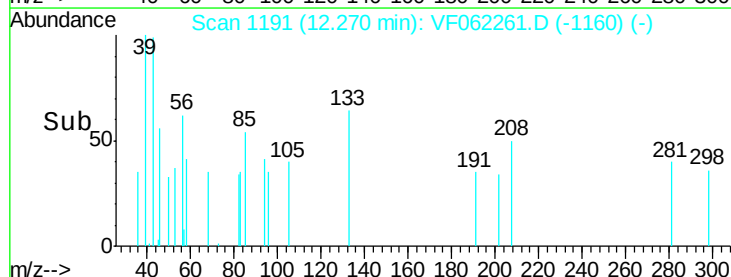
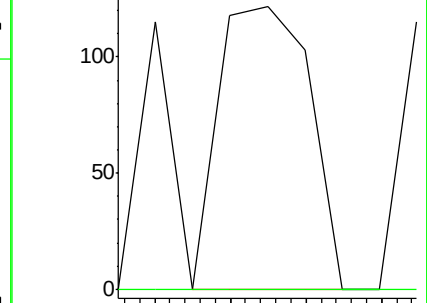
105 100

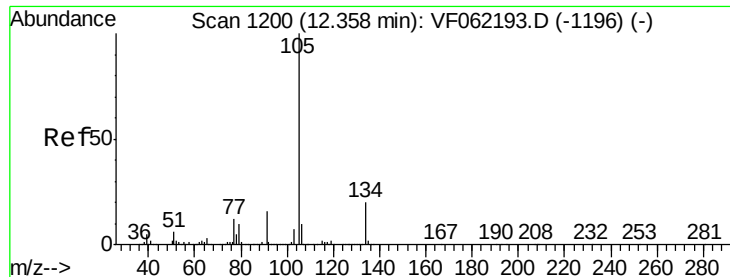
120 0.0 24.0 72.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 39.460 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. 0.15 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

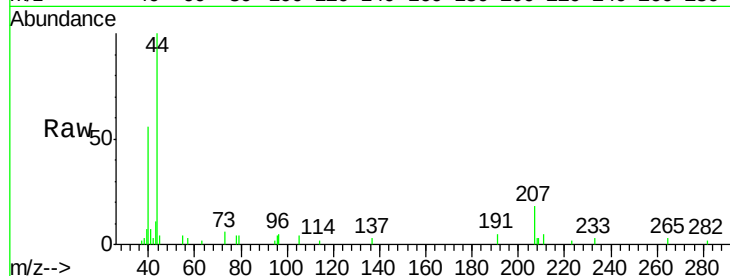
ClientSampleId :

Tot Ion:105 Resp: 235

Ion Ratio Lower Upper

105 100

134 28.1 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.51

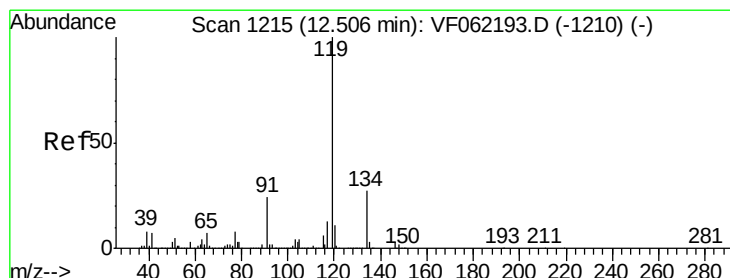
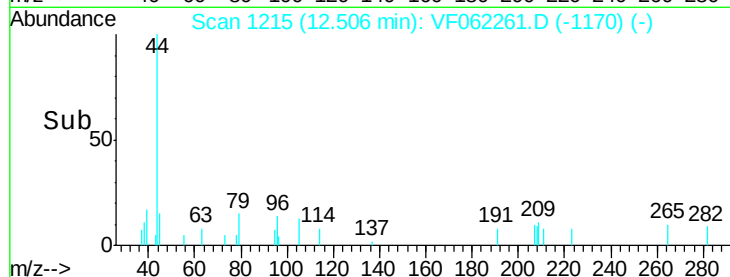
150

100

50

0

Time-->



#86

p-Isopropyltoluene

Concen: 16.232 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.03 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

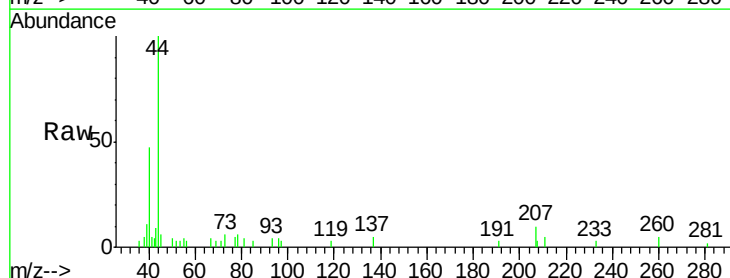
Tgt Ion:119 Resp: 82

Ion Ratio Lower Upper

119 100

134 80.5 13.2 39.5#

91 223.2 11.7 35.1#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.54

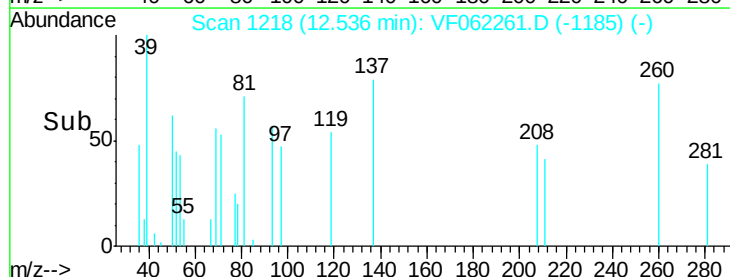
150

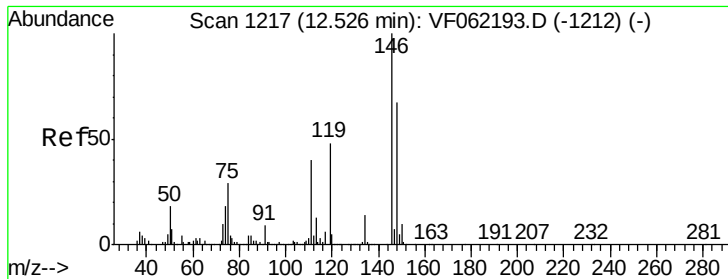
100

50

0

Time-->

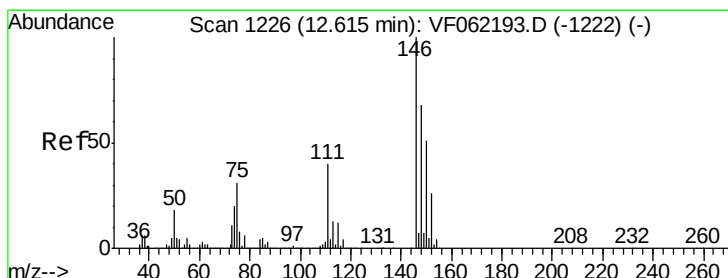
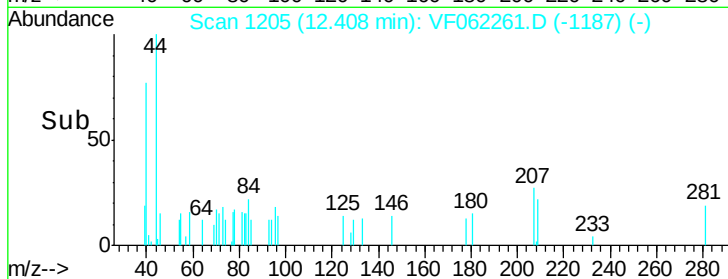
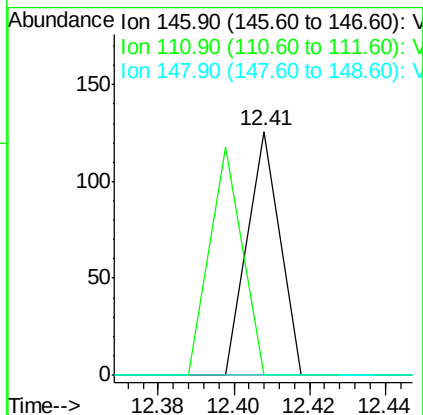
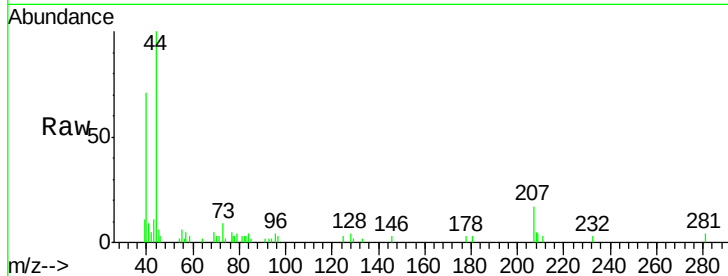




#87
 1,3-Dichlorobenzene
 Concen: 34.953 ug/l
 RT: 12.41 min Scan# 1205
 Delta R.T. -0.12 min
 Lab File: VF062261.D
 Acq: 23 Apr 2019 13:59

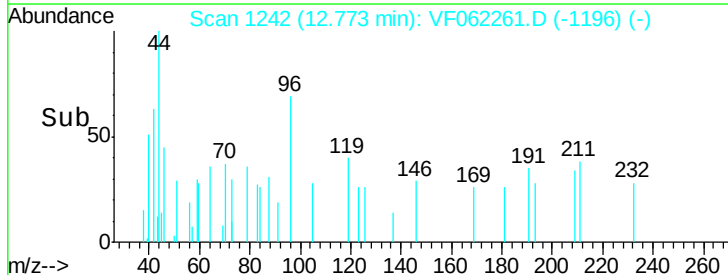
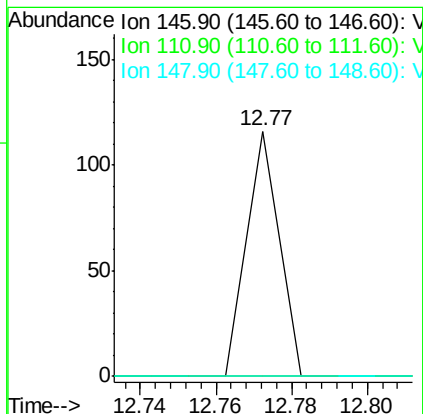
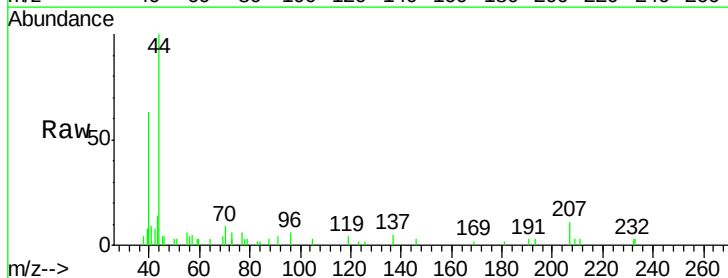
Instrument :
 MSVOA_F
 ClientSampleId :

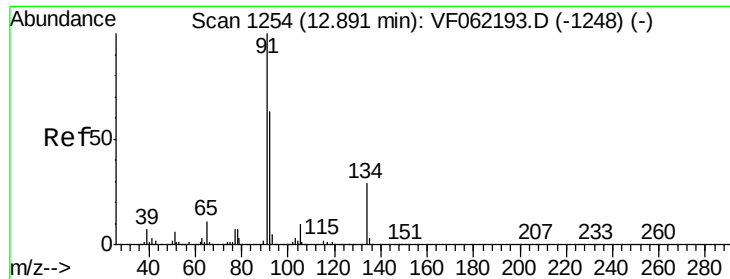
Tot Ion	Ratio	Lower	Upper
146	100		
111	94.6	19.7	59.0#
148	0.0	32.9	98.6#



#88
 1,4-Dichlorobenzene
 Concen: 33.788 ug/l
 RT: 12.77 min Scan# 1242
 Delta R.T. 0.16 min
 Lab File: VF062261.D
 Acq: 23 Apr 2019 13:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.0	60.0#
148	0.0	33.6	100.8#





#89

n-Butylbenzene

Concen: 211.757 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF062261.D

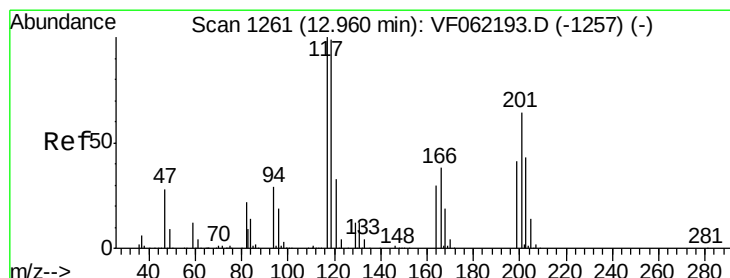
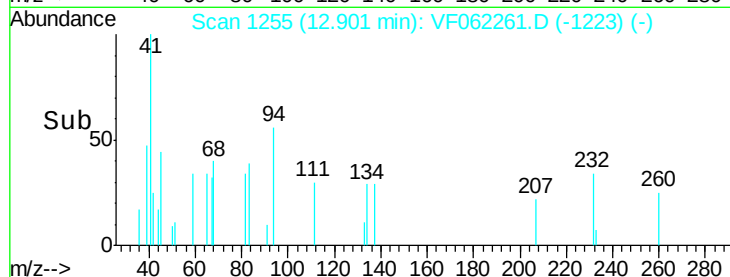
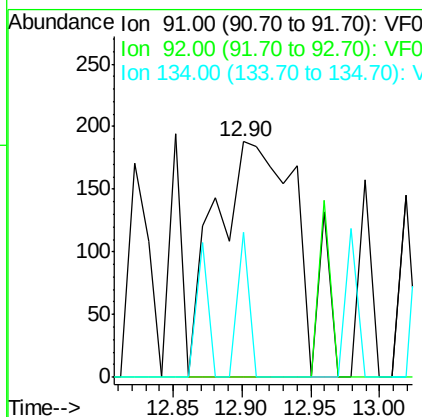
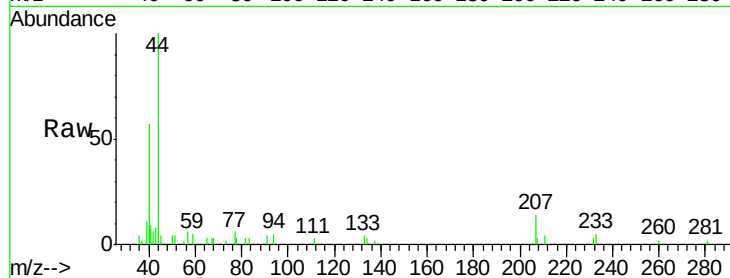
Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

ClientSampled :

Tot Ion:	91	Resp:	810
Ion	Ratio	Lower	Upper
91	100		
92	0.0	31.2	93.6#
134	8.5	13.1	39.1#



#90

Hexachloroethane

Concen: 50.877 ug/l

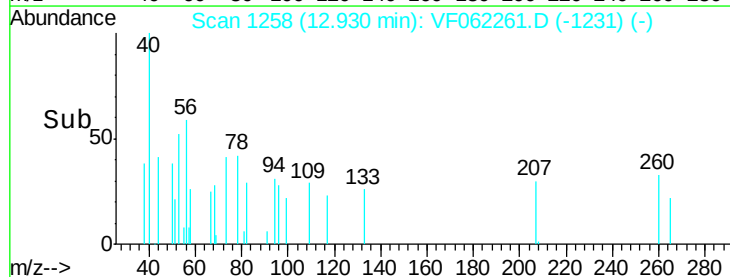
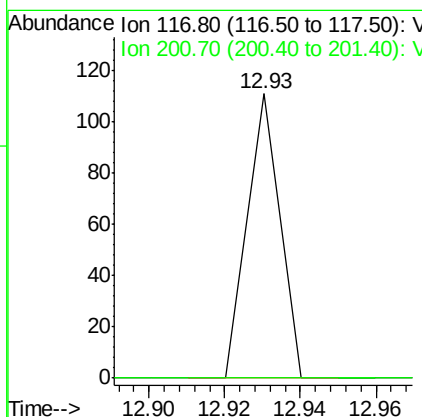
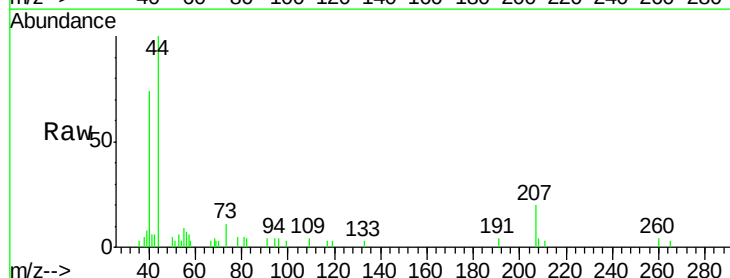
RT: 12.93 min Scan# 1258

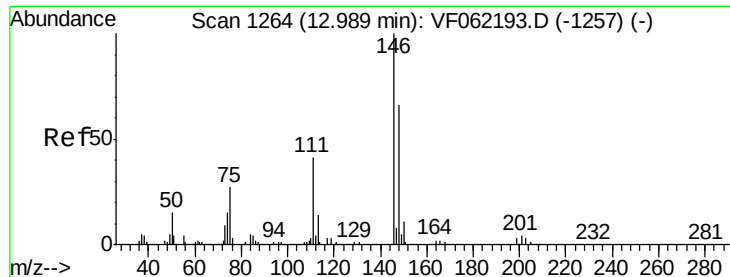
Delta R.T. -0.03 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

Tgt Ion:	117	Resp:	66
Ion	Ratio	Lower	Upper
117	100		
201	0.0	37.7	113.1#

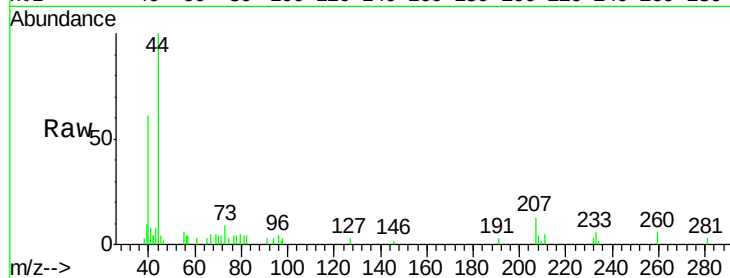




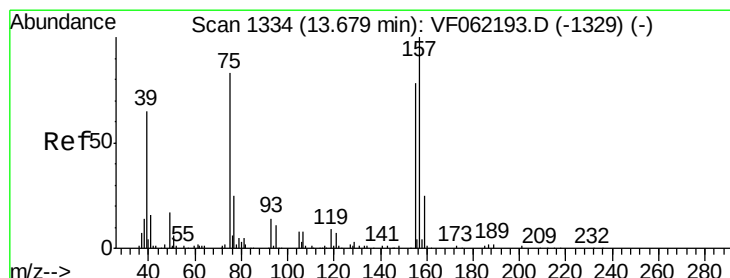
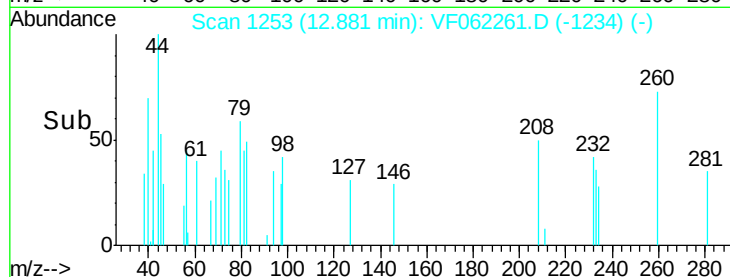
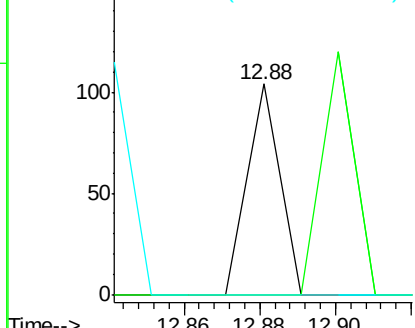
#91
 1,2-Dichlorobenzene
 Concen: 29.839 ug/l
 RT: 12.88 min Scan# 1253
 Delta R.T. -0.11 min
 Lab File: VF062261.D
 Acq: 23 Apr 2019 13:59

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	116.4	20.8	62.5#
148	0.0	33.0	99.0#

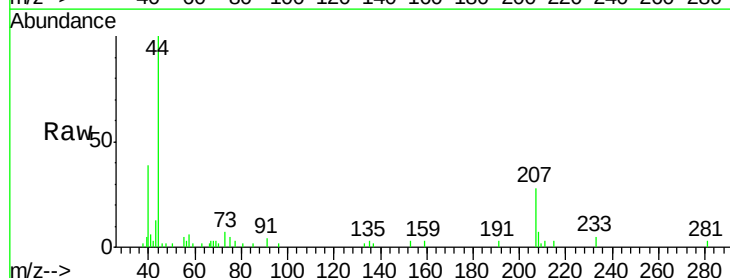


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

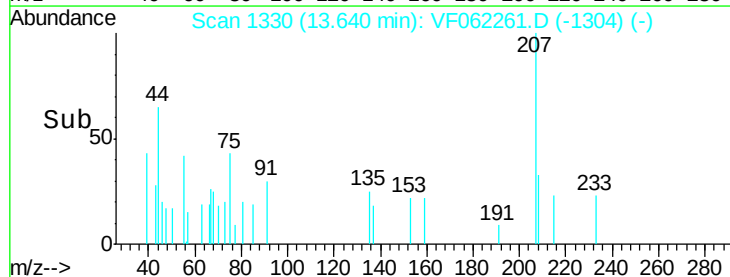
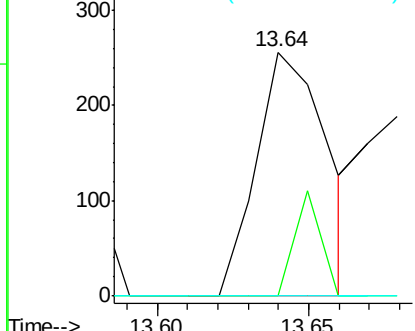


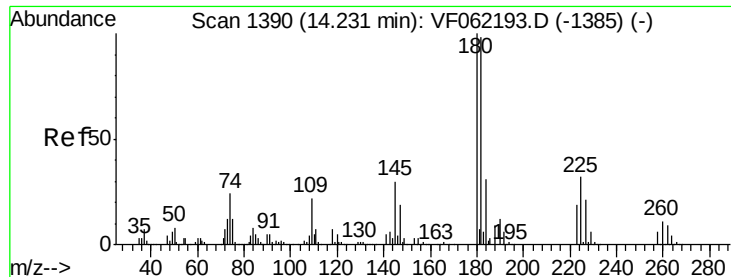
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2317.267 ug/l
 RT: 13.64 min Scan# 1330
 Delta R.T. -0.04 min
 Lab File: VF062261.D
 Acq: 23 Apr 2019 13:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	15.6	47.6	142.8#
157	0.0	61.3	183.9#



Abundance Ion 74.90 (74.60 to 75.60): VF0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 42.094 ug/l

RT: 14.18 min Scan# 1385

Delta R.T. -0.05 min

Lab File: VF062261.D

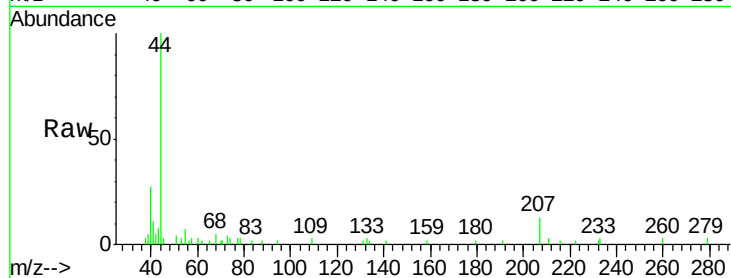
Acq: 23 Apr 2019 13:59

Instrument :

MSVOA_F

ClientSampleId :

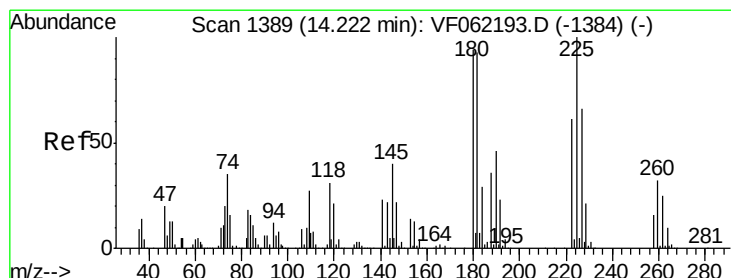
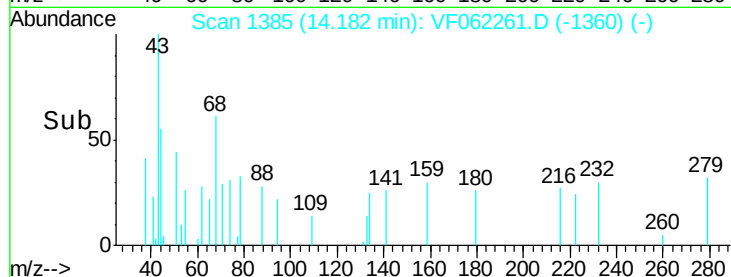
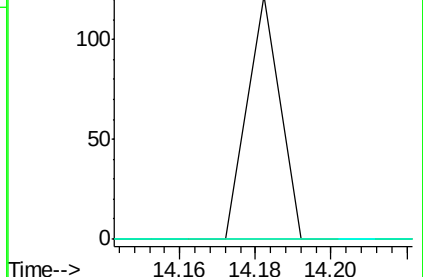
Tot Ion:	180	Resp:	72
Ion	Ratio	Lower	Upper
180	100		
182	0.0	49.3	147.9#
145	0.0	18.1	54.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 53.716 ug/l

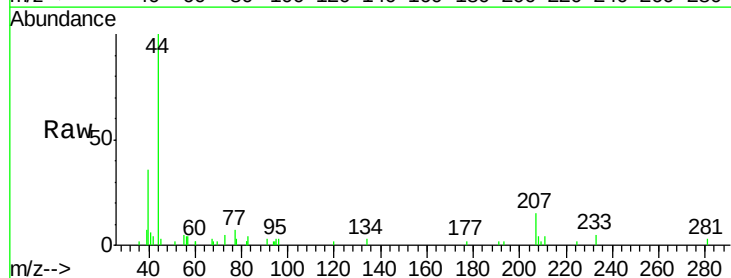
RT: 14.21 min Scan# 1388

Delta R.T. -0.01 min

Lab File: VF062261.D

Acq: 23 Apr 2019 13:59

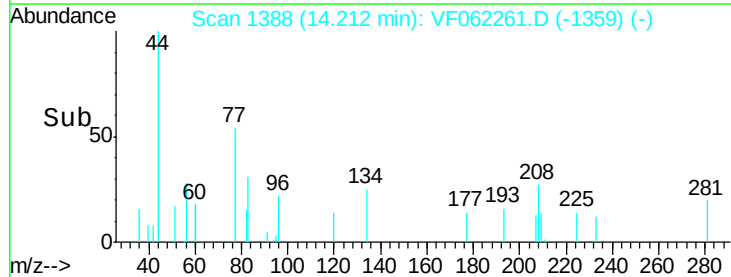
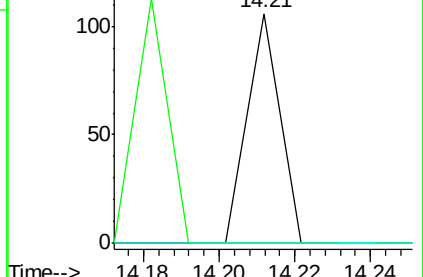
Tgt Ion:	225	Resp:	63
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.0	93.0#
227	0.0	32.4	97.0#

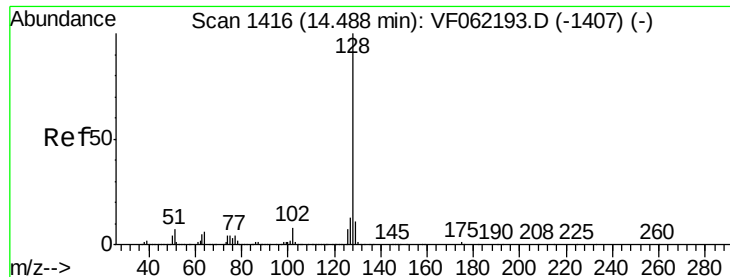


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

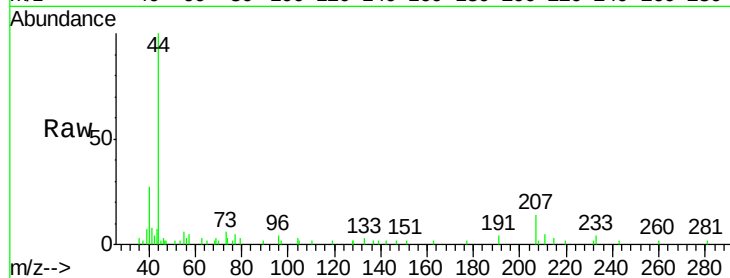




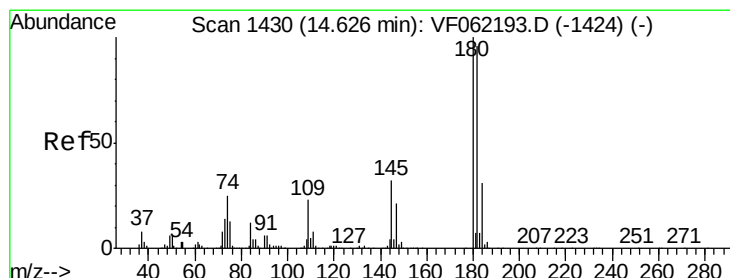
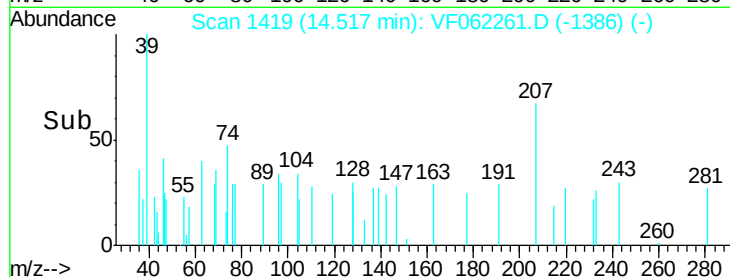
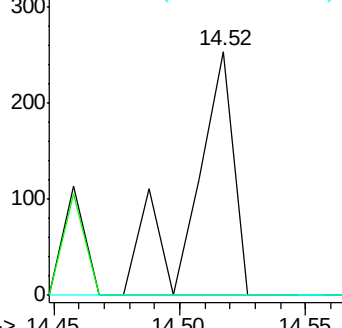
#95
Naphthalene
Concen: 95.629 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.03 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 286
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 9.2 13.8#

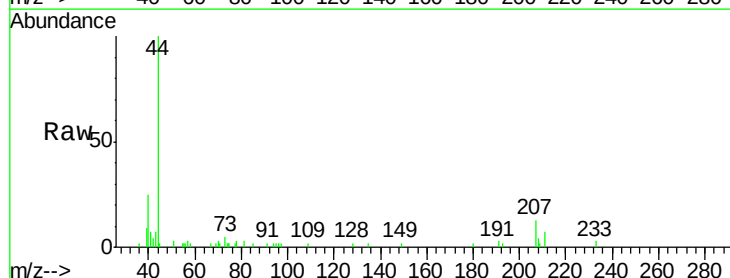


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 42.020 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. -0.14 min
Lab File: VF062261.D
Acq: 23 Apr 2019 13:59

Tgt Ion:180 Resp: 69
Ion Ratio Lower Upper
180 100
182 0.0 48.4 145.3#
145 0.0 15.6 46.8#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

