

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052819\
 Data File : VF062767.D
 Acq On : 28 May 2019 18:21
 Operator : FY/SY
 Sample : K3072-03
 Misc : 5.38g/5mL/MSVOA F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-3

Quant Time: May 29 01:49:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	35337	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	40117	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	22310	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	2692	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.06	65	4076	16.32	ug/l	0.03
Spiked Amount	50.000		Recovery	=	32.64%	
35) Dibromofluoromethane	4.33	113	8178	26.64	ug/l	0.02
Spiked Amount	50.000		Recovery	=	53.28%	
50) Toluene-d8	7.73	98	30421	41.51	ug/l	0.02
Spiked Amount	50.000		Recovery	=	83.02%	
62) 4-Bromofluorobenzene	11.51	95	4634	16.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	33.34%	

Target Compounds

					Qvalue
3) Chloromethane	1.14	50	571	1.290	ug/l # 40
5) Bromomethane	1.47	94	514	2.305	ug/l 84
6) Chloroethane	1.36	64	569	3.801	ug/l 100
8) Diethyl Ether	1.77	74	276	2.546	ug/l 49
11) Tert butyl alcohol	2.68	59	344	20.866	ug/l # 1
13) Acrolein	2.14	56	271	15.748	ug/l # 20
14) Allyl chloride	2.17	41	302	1.051	ug/l # 81
15) Acrylonitrile	3.09	53	281	6.042	ug/l # 21
16) Acetone	2.37	43	1043	16.100	ug/l # 47
18) Methyl Acetate	2.48	43	557	5.471	ug/l 95
19) Methyl tert-butyl Ether	2.54	73	679	1.197	ug/l # 1
21) trans-1,2-Dichloroethene	2.44	96	319	1.028	ug/l # 56
22) Diisopropyl ether	2.98	45	758	1.070	ug/l # 58
24) 1,1-Dichloroethane	3.06	63	698	1.343	ug/l # 1
25) 2-Butanone	4.56	43	723	5.224	ug/l 98
26) 2,2-Dichloropropane	3.87	77	434	1.459	ug/l 76
27) cis-1,2-Dichloroethene	3.65	96	640	1.254	ug/l 1
29) Tetrahydrofuran	4.26	42	946	16.890	ug/l # 56
31) Cyclohexane	3.87	56	811	1.162	ug/l # 25
36) 1,1-Dichloropropene	4.48	75	502	1.221	ug/l # 58
37) Ethyl Acetate	4.30	43	290	1.728	ug/l # 9
41) Methacrylonitrile	4.95	41	1247	14.171	ug/l # 50
43) Isopropyl Acetate	7.12	43	1227	5.643	ug/l # 42
44) Trichloroethene	5.71	130	428	1.360	ug/l 68
45) 1,2-Dichloropropane	6.40	63	639	2.260	ug/l 96
46) Dibromomethane	6.27	93	319	1.953	ug/l # 37
47) Bromodichloromethane	6.54	83	570	1.681	ug/l # 25
48) Methyl methacrylate	6.85	41	687	6.045	ug/l # 40
49) 1,4-Dioxane	6.90	88	118	81.061	ug/l # 1
51) 4-Methyl-2-Pentanone	8.43	43	882	5.934	ug/l 95
56) Ethyl methacrylate	8.77	69	648	3.128	ug/l # 4
58) 2-Chloroethyl Vinyl ether	7.45	63	164	2.432	ug/l # 51
59) 2-Hexanone	9.64	43	899	Below Cal	62
60) Dibromochloromethane	8.89	129	227	1.002	ug/l 57

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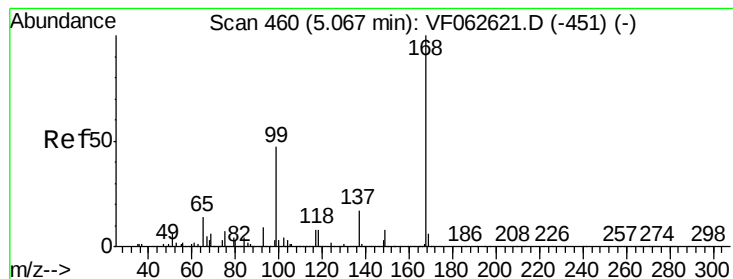
Instrument :
 MSVOA_F
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Quant Time: May 29 01:49:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

61) 1,2-Dibromoethane	9.12	107	325	1.760	ug/l #	44
64) Tetrachloroethene	8.33	164	184	1.041	ug/l #	1
65) Chlorobenzene	9.91	112	545	1.244	ug/l #	41
68) m/p-Xylenes	10.28	106	628	2.195	ug/l	90
70) Styrene	10.92	104	490	1.094	ug/l #	58
73) Isopropylbenzene	11.22	105	625	3.239	ug/l #	45
74) N-amyl acetate	11.45	43	1028	17.425	ug/l #	67
75) 1,1,2,2-Tetrachloroethane	11.78	83	72	1.826	ug/l #	1
76) 1,2,3-Trichloropropane	12.01	75	202	7.797	ug/l	85
77) Bromobenzene	11.60	156	258	5.380	ug/l #	1
78) n-propylbenzene	11.68	91	605	2.650	ug/l #	50
79) 2-Chlorotoluene	11.80	91	139	1.080	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.82	105	467	3.019	ug/l	68
81) trans-1,4-Dichloro-2-buten	11.93	75	70	6.078	ug/l #	12
82) 4-Chlorotoluene	12.04	91	222	1.749	ug/l	74
83) tert-Butylbenzene	12.22	119	398	2.536	ug/l #	32
84) 1,2,4-Trimethylbenzene	12.29	105	585	3.907	ug/l #	55
85) sec-Butylbenzene	12.38	105	366	1.738	ug/l #	65
86) p-Isopropyltoluene	12.55	119	552	3.110	ug/l #	49
87) 1,3-Dichlorobenzene	12.56	146	124	1.429	ug/l #	23
90) Hexachloroethane	13.00	117	69	1.620	ug/l #	20
91) 1,2-Dichlorobenzene	13.00	146	84	1.086	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.73	75	319	67.817	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.24	180	93	1.680	ug/l #	11
94) Hexachlorobutadiene	14.27	225	73	1.889	ug/l #	26
96) 1,2,3-Trichlorobenzene	14.68	180	69	1.316	ug/l #	66

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

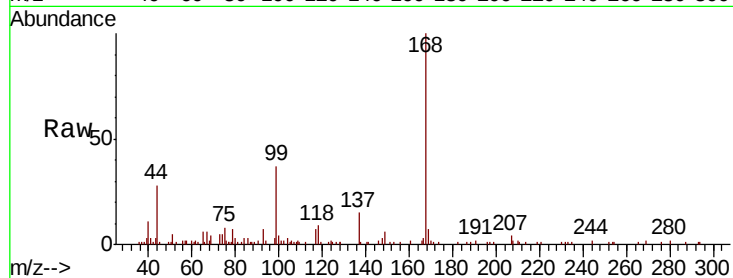
TP-3

Tot Ion:168 Resp: 35337

Ion Ratio Lower Upper

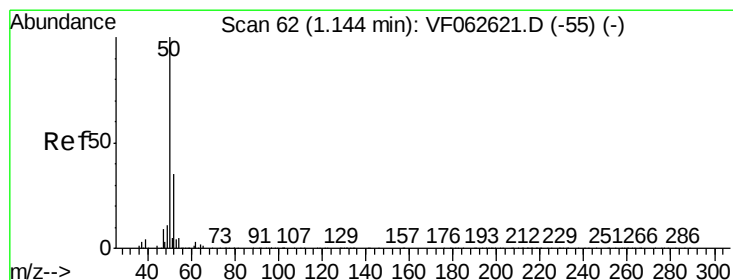
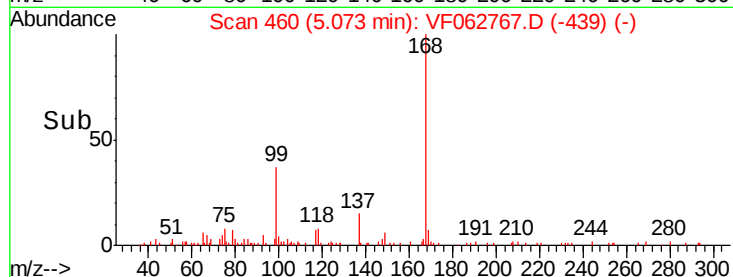
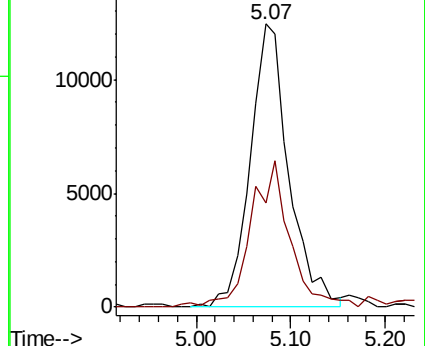
168 100

99 36.9 37.8 56.8#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.290 ug/l

RT: 1.14 min Scan# 61

Delta R.T. -0.00 min

Lab File: VF062767.D

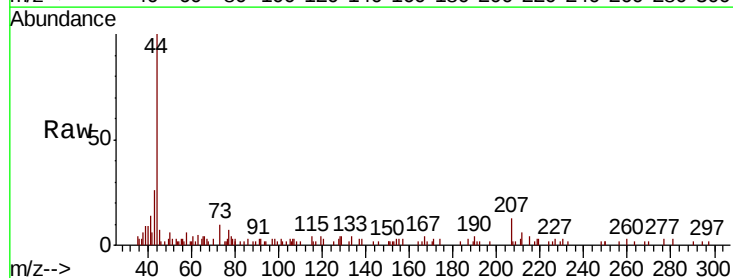
Acq: 28 May 2019 18:21

Tgt Ion: 50 Resp: 571

Ion Ratio Lower Upper

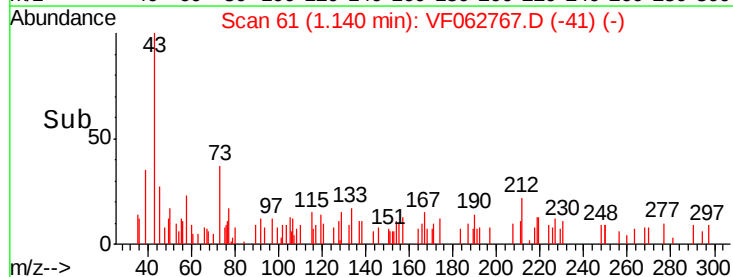
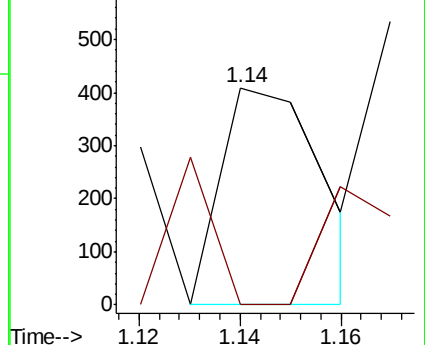
50 100

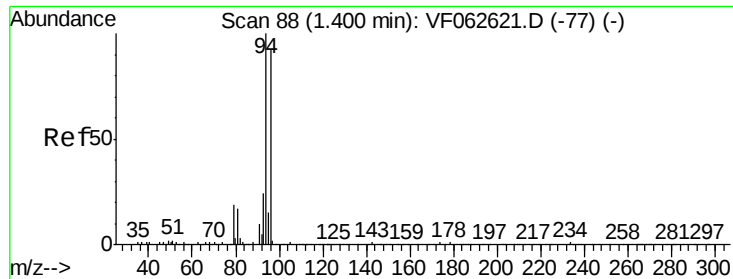
52 0.0 27.5 41.3#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: 2.305 ug/l

RT: 1.47 min Scan# 94

Delta R.T. 0.07 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

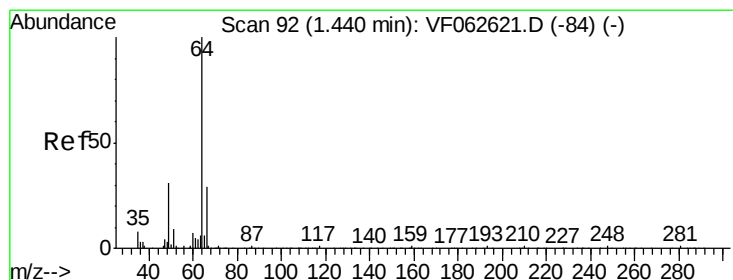
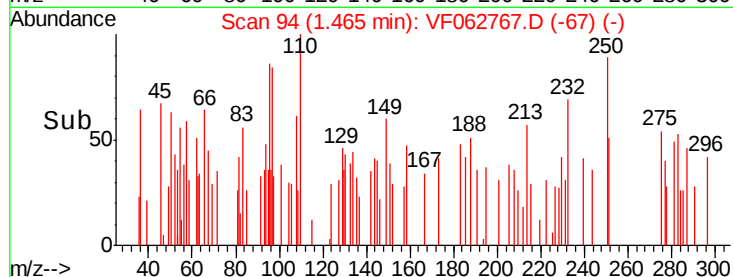
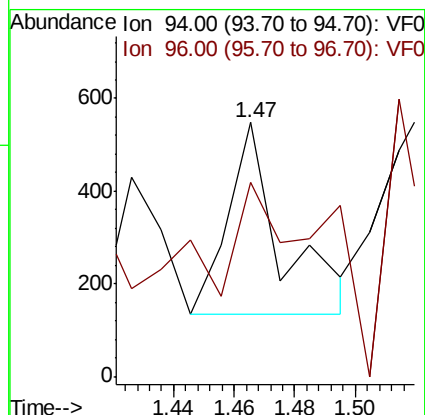
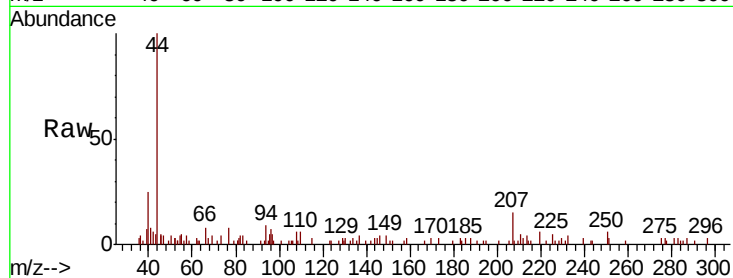
Instrument :
MSVOA_F
ClientSampled :
TP-3

Tot Ion: 94 Resp: 514

Ion Ratio Lower Upper

94 100

96 76.5 73.2 109.8



#6

Chloroethane

Concen: 3.801 ug/l

RT: 1.36 min Scan# 83

Delta R.T. -0.08 min

Lab File: VF062767.D

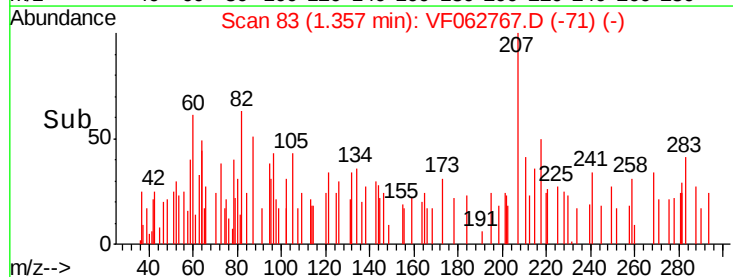
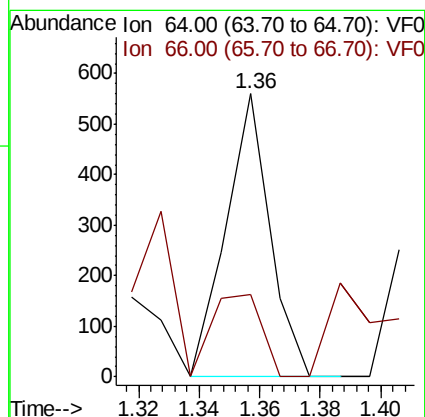
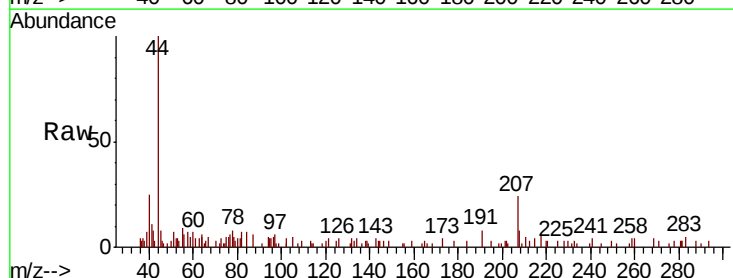
Acq: 28 May 2019 18:21

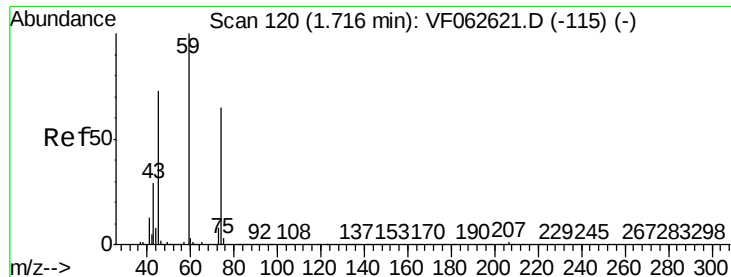
Tgt Ion: 64 Resp: 569

Ion Ratio Lower Upper

64 100

66 29.1 23.4 35.2





#8

Diethyl Ether

Concen: 2.546 ug/l

RT: 1.77 min Scan# 125

Delta R.T. 0.06 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

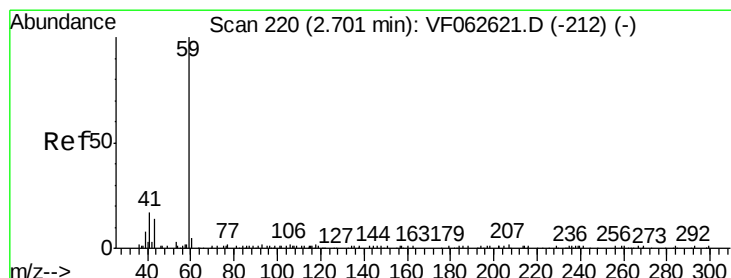
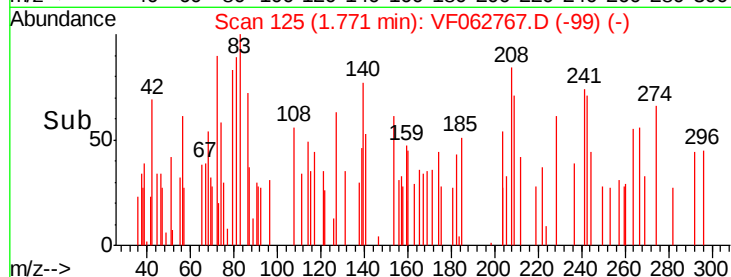
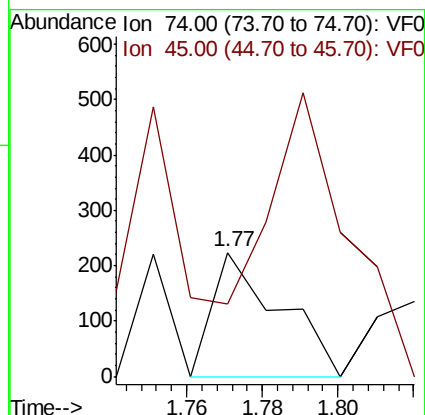
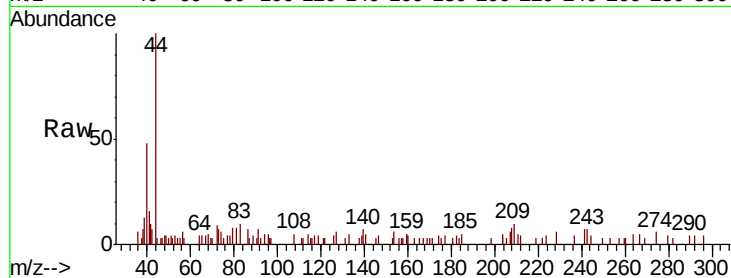
TP-3

Tot Ion: 74 Resp: 276

Ion Ratio Lower Upper

74 100

45 58.5 57.0 170.8



#11

Tert butyl alcohol

Concen: 20.866 ug/l

RT: 2.68 min Scan# 217

Delta R.T. -0.02 min

Lab File: VF062767.D

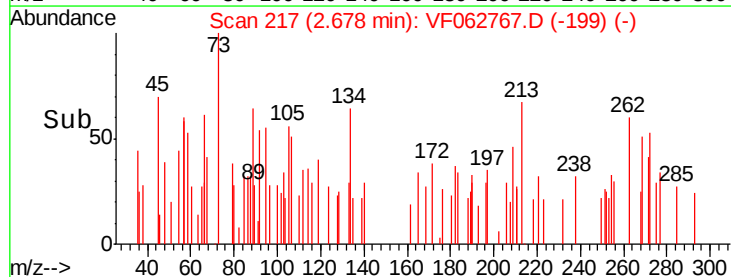
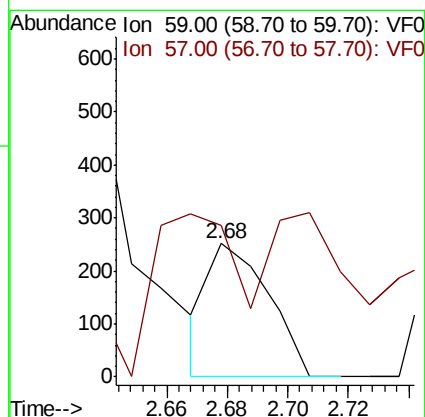
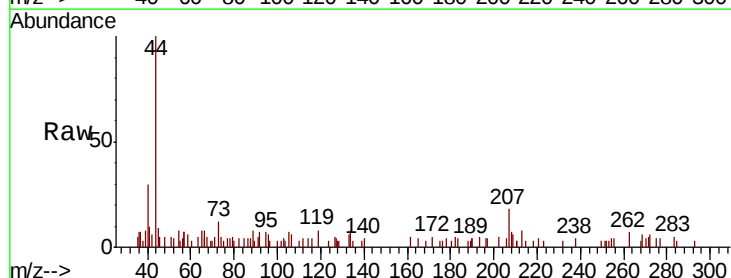
Acq: 28 May 2019 18:21

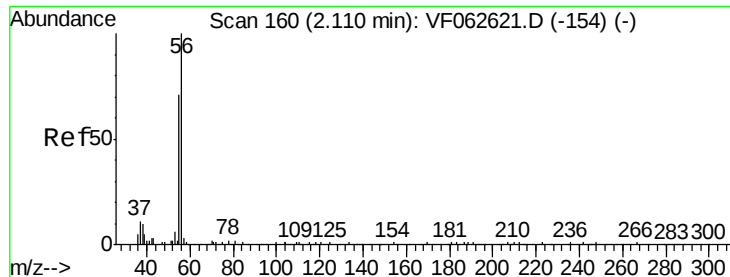
Tgt Ion: 59 Resp: 344

Ion Ratio Lower Upper

59 100

57 113.9 9.3 13.9#





#13

Acrolein

Concen: 15.748 ug/l

RT: 2.14 min Scan# 162

Delta R.T. 0.03 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

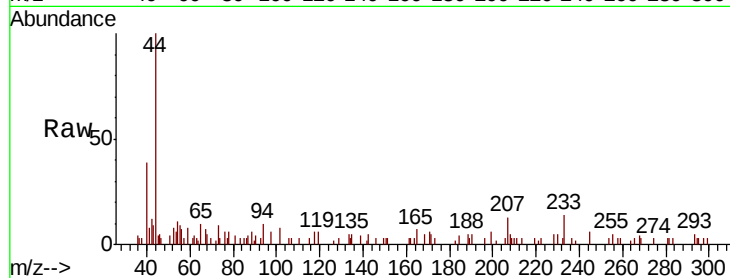
TP-3

Tot Ion: 56 Resp: 271

Ion Ratio Lower Upper

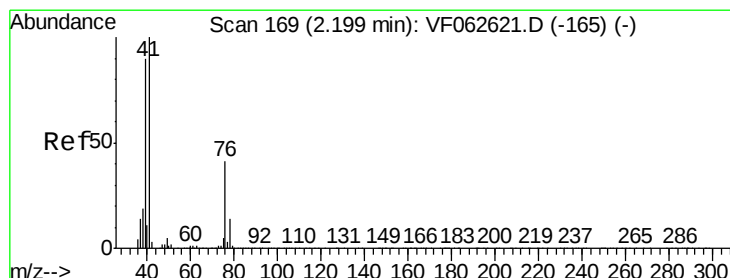
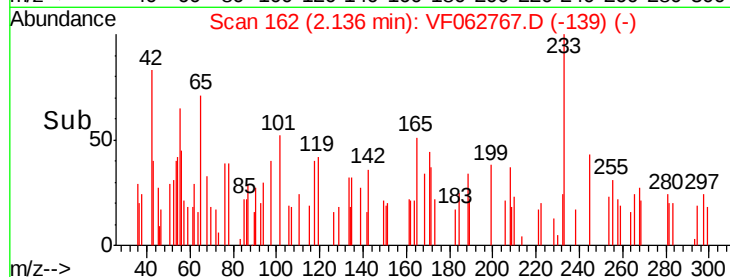
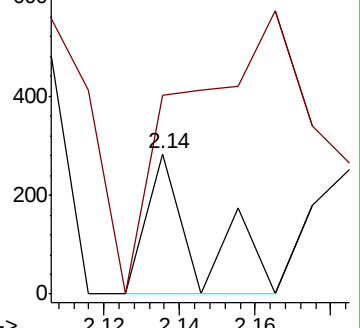
56 100

55 142.0 59.4 89.0#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 1.051 ug/l

RT: 2.17 min Scan# 165

Delta R.T. -0.03 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

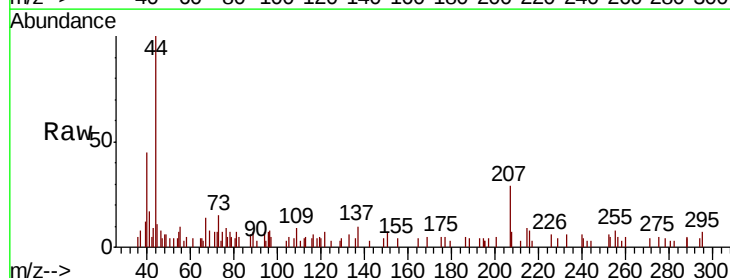
Tgt Ion: 41 Resp: 302

Ion Ratio Lower Upper

41 100

39 71.2 72.0 108.0#

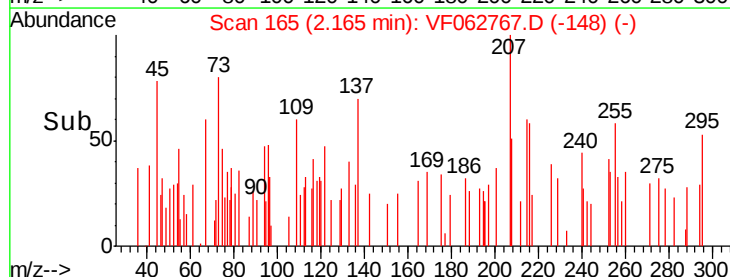
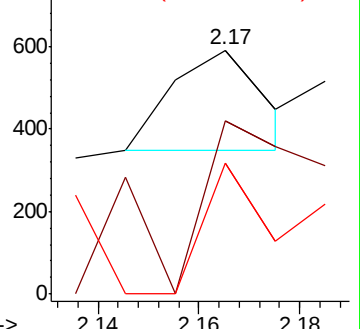
76 54.0 34.8 52.2#

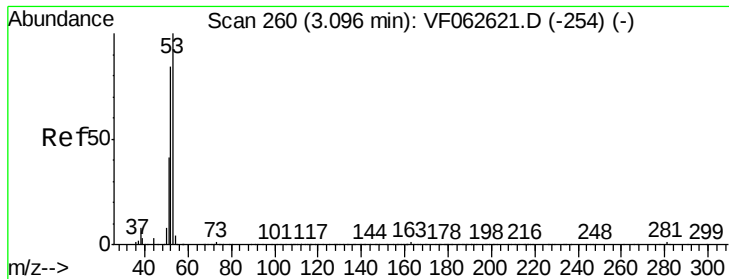


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 6.042 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.00 min

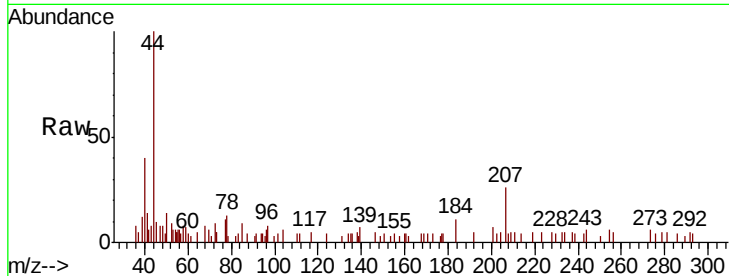
Lab File: VF062767.D

Acq: 28 May 2019 18:21

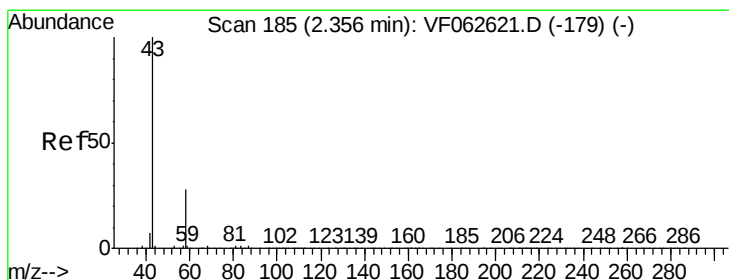
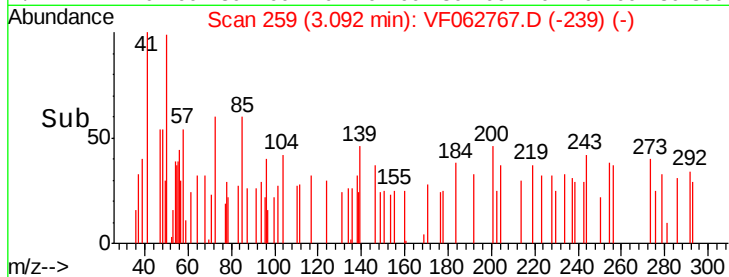
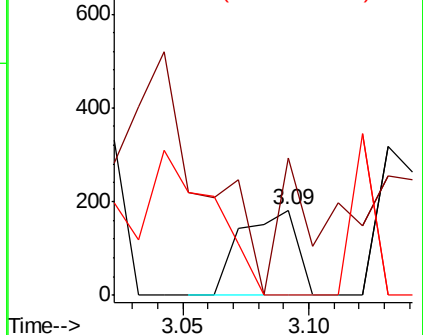
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Tot Ion: 53 Resp: 281

Ion	Ratio	Lower	Upper
53	100		
52	161.0	67.3	100.9#
51	0.0	33.0	49.6#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 16.100 ug/l

RT: 2.37 min Scan# 186

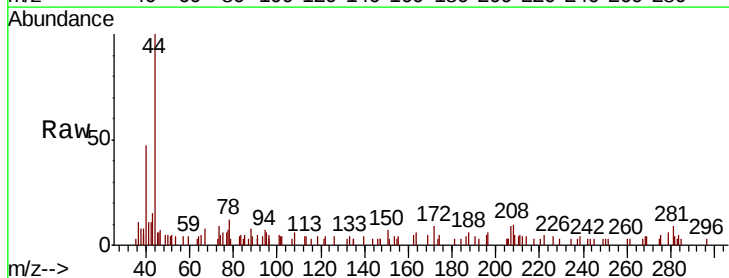
Delta R.T. 0.02 min

Lab File: VF062767.D

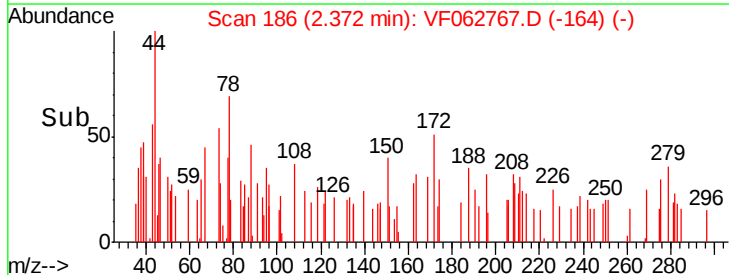
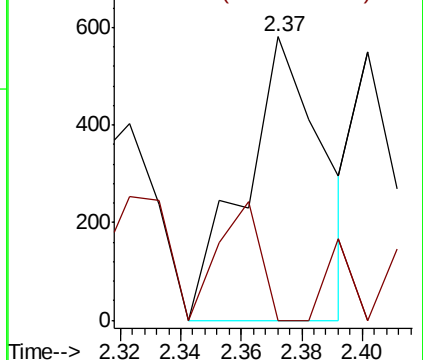
Acq: 28 May 2019 18:21

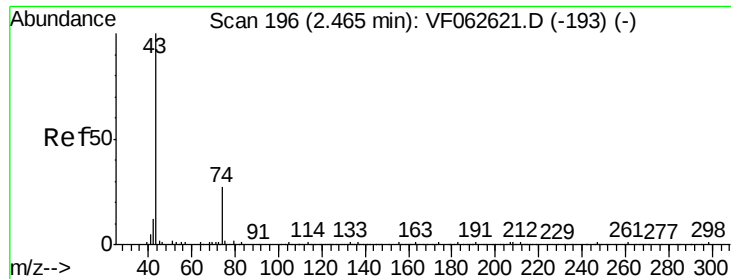
Tgt Ion: 43 Resp: 1043

Ion	Ratio	Lower	Upper
43	100		
58	0.0	22.6	33.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

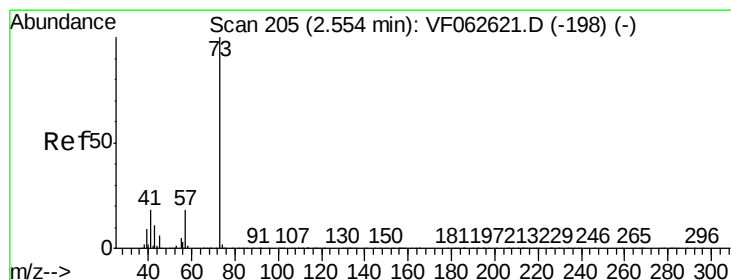
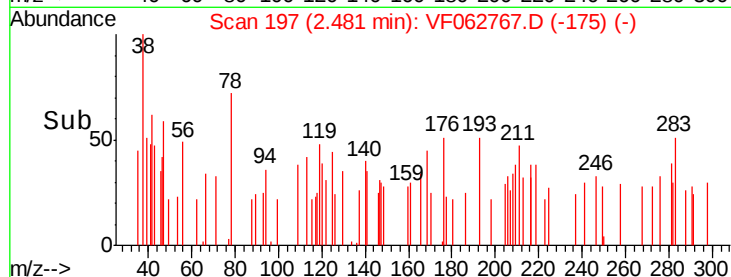
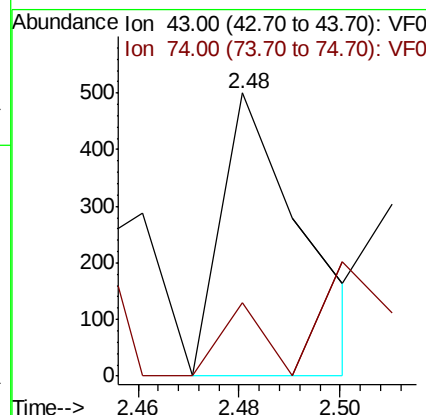
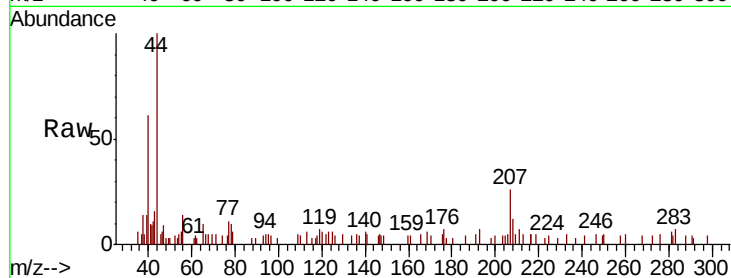




#18
Methyl Acetate
Concen: 5.471 ug/l
RT: 2.48 min Scan# 197
Delta R.T. 0.02 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

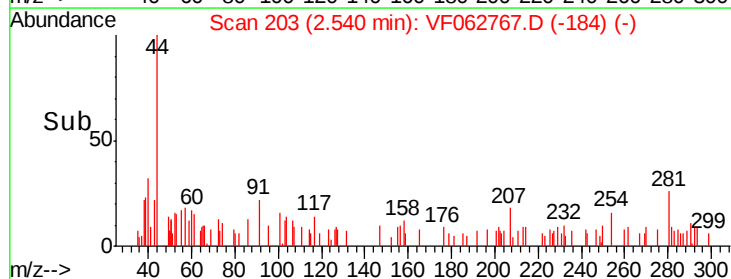
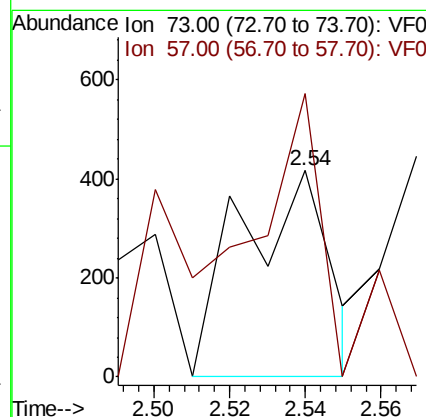
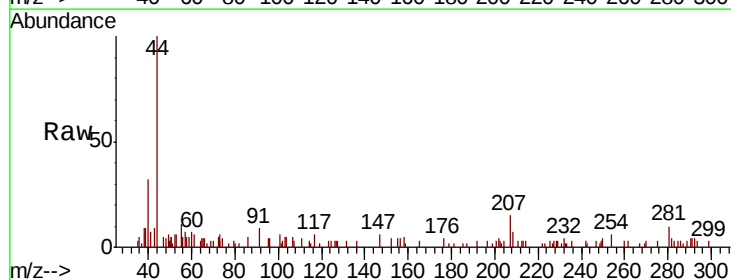
Instrument :
MSVOA_F
ClientSampled :
TP-3

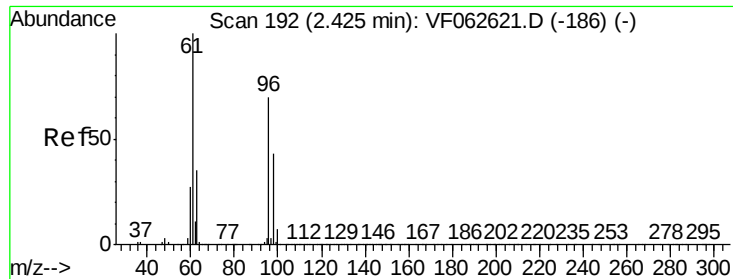
Tot Ion: 43 Resp: 557
Ion Ratio Lower Upper
43 100
74 26.0 18.9 28.3



#19
Methyl tert-butyl Ether
Concen: 1.197 ug/l
RT: 2.54 min Scan# 203
Delta R.T. -0.01 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Tgt Ion: 73 Resp: 679
Ion Ratio Lower Upper
73 100
57 137.5 14.2 21.4#





#21

trans-1,2-Dichloroethene

Concen: 1.028 ug/l

RT: 2.44 min Scan# 193

Delta R.T. 0.02 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :
MSVOA_F
ClientSampled :
TP-3

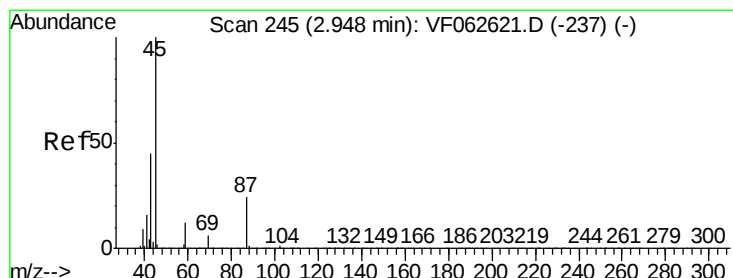
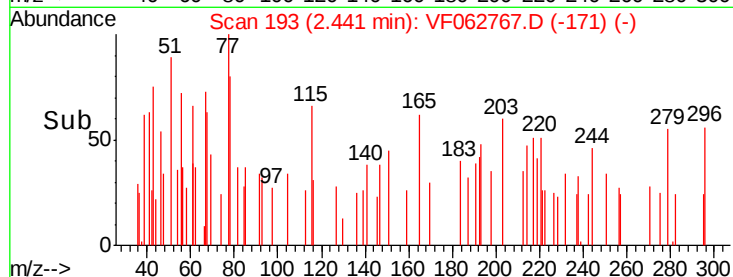
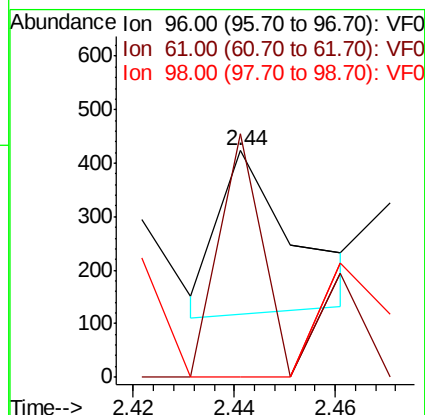
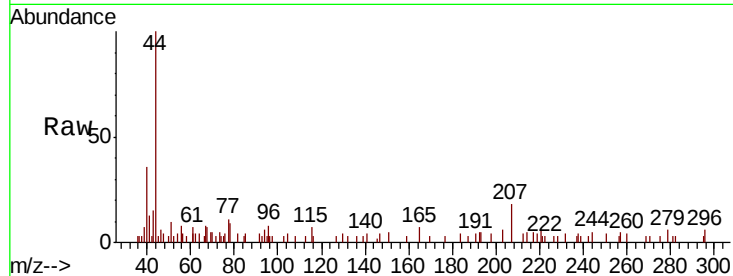
Tot Ion: 96 Resp: 319

Ion Ratio Lower Upper

96 100

61 107.6 114.6 171.8#

98 0.0 49.5 74.3#



#22

Diisopropyl ether

Concen: 1.070 ug/l

RT: 2.98 min Scan# 248

Delta R.T. 0.04 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Tgt Ion: 45 Resp: 758

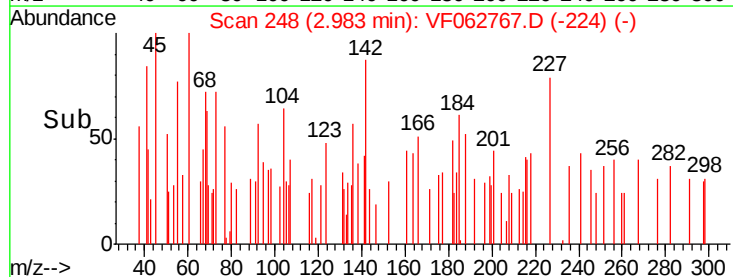
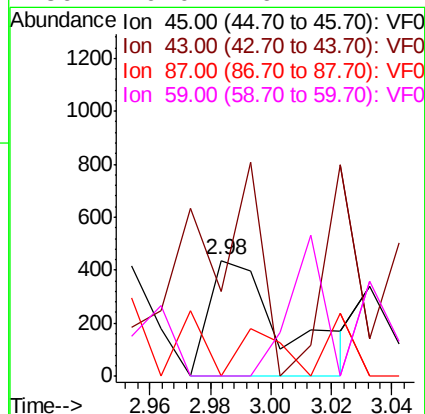
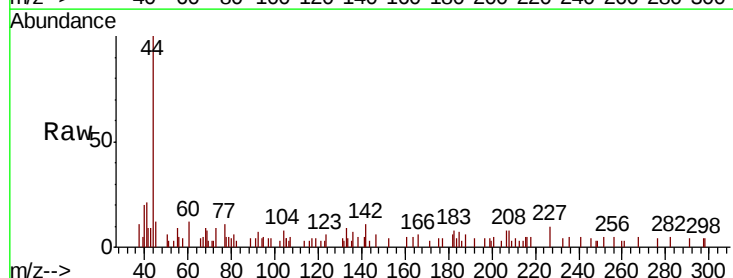
Ion Ratio Lower Upper

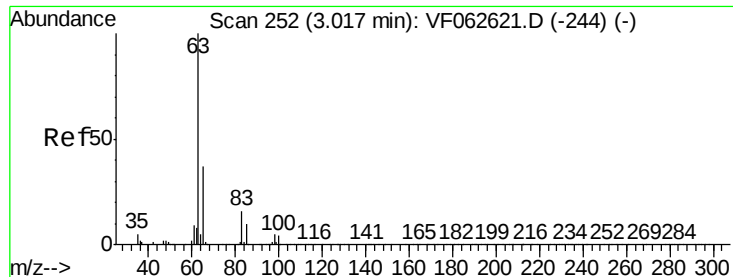
45 100

43 72.7 36.4 54.6#

87 0.0 19.3 28.9#

59 0.0 9.4 14.2#





#24

1,1-Dichloroethane

Concen: 1.343 ug/l

RT: 3.06 min Scan# 256

Delta R.T. 0.05 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :
MSVOA_F
ClientSampled :
TP-3

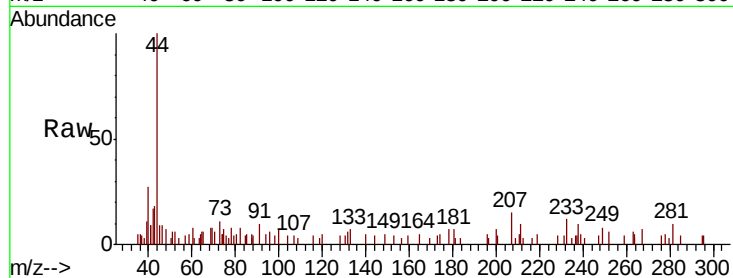
Tot Ion: 63 Resp: 698

Ion Ratio Lower Upper

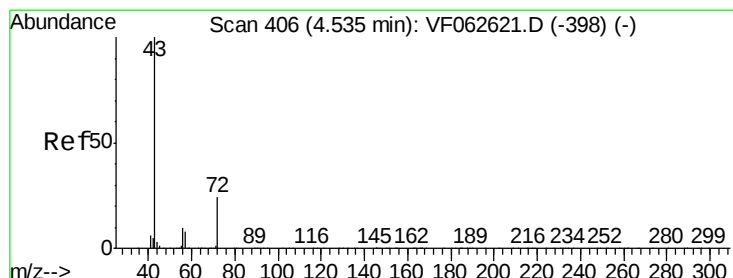
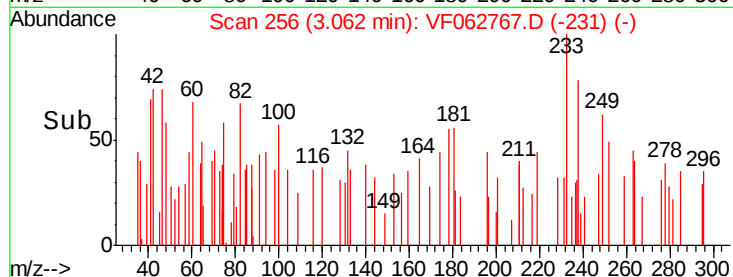
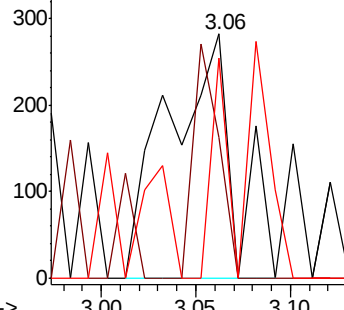
63 100

98 57.8 2.8 8.3#

100 90.4 1.9 5.7#



Abundance Ion 63.00 (62.70 to 63.70): VF0
Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: 5.224 ug/l

RT: 4.56 min Scan# 408

Delta R.T. 0.03 min

Lab File: VF062767.D

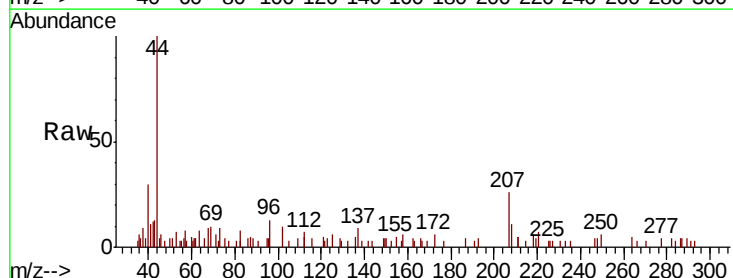
Acq: 28 May 2019 18:21

Tgt Ion: 43 Resp: 723

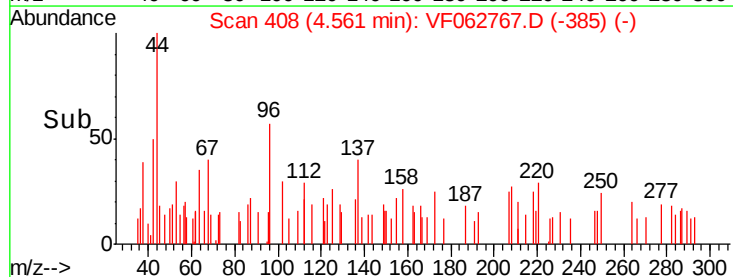
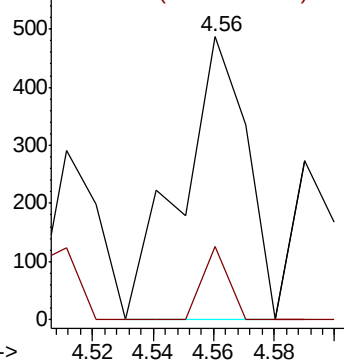
Ion Ratio Lower Upper

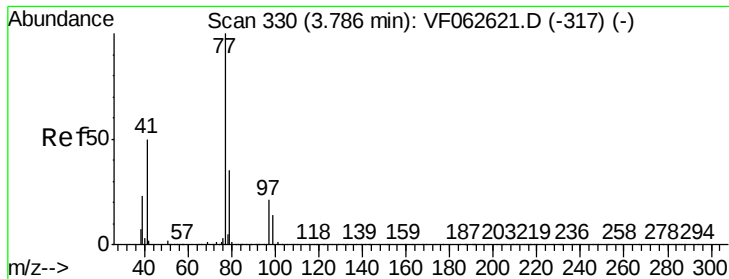
43 100

72 26.1 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#26

2,2-Dichloropropane

Concen: 1.459 ug/l

RT: 3.87 min Scan# 338

Delta R.T. 0.08 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

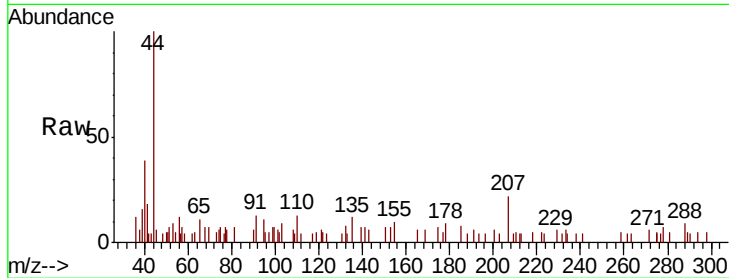
TP-3

Tot Ion: 77 Resp: 434

Ion Ratio Lower Upper

77 100

97 41.2 14.1 42.4



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

400

300

200

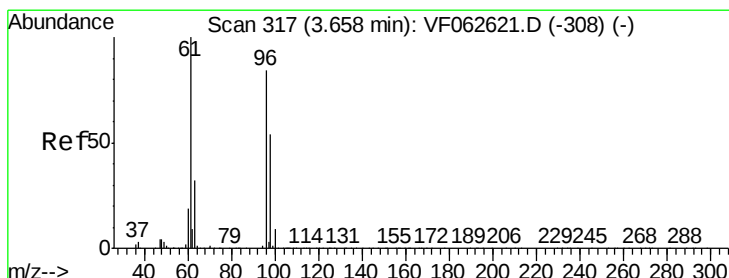
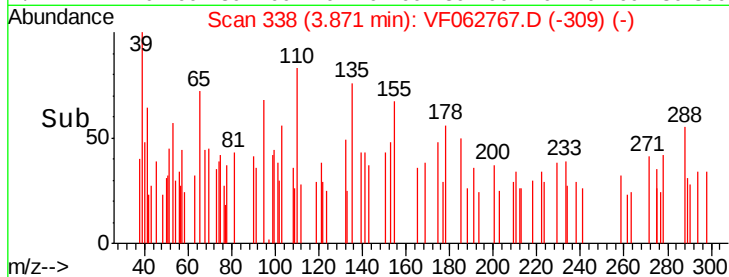
100

0

3.84 3.86 3.88

3.87

Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.254 ug/l

RT: 3.65 min Scan# 316

Delta R.T. -0.00 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

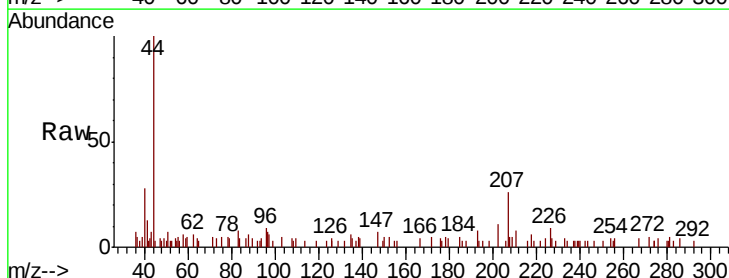
Tgt Ion: 96 Resp: 640

Ion Ratio Lower Upper

96 100

61 0.0 0.0 237.4

98 0.0 0.0 129.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

800

600

400

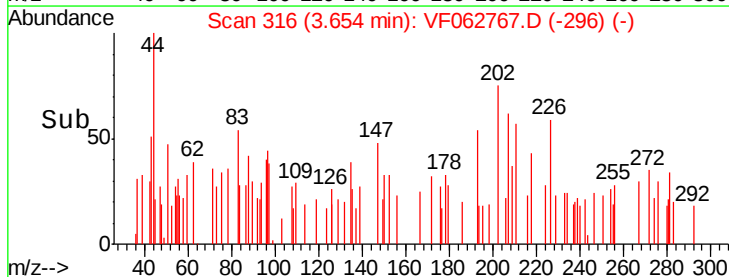
200

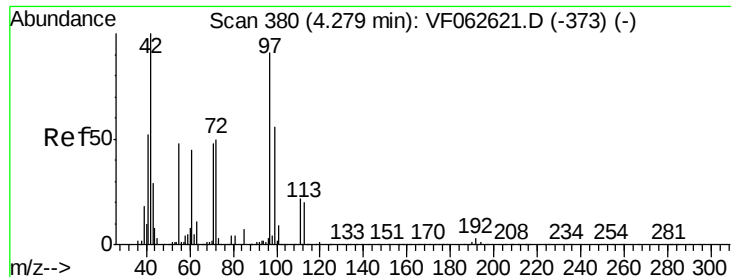
0

3.60 3.65 3.70

3.65

Time-->

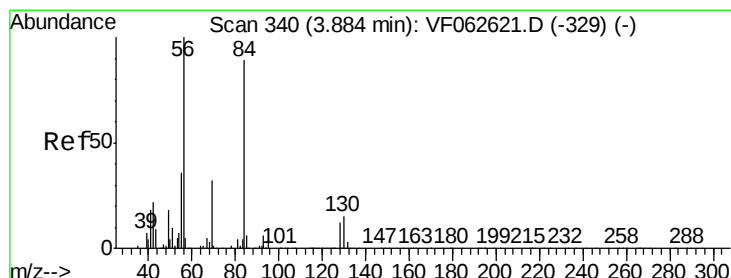
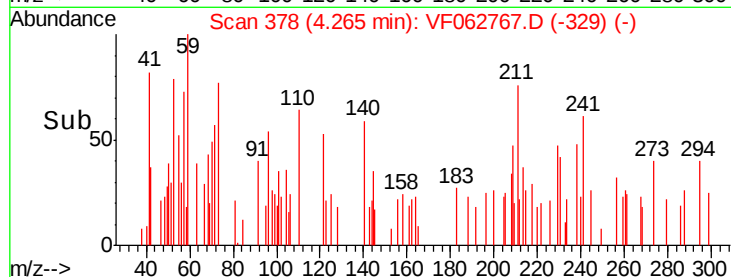
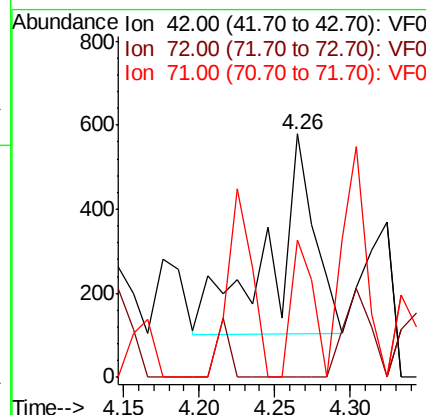
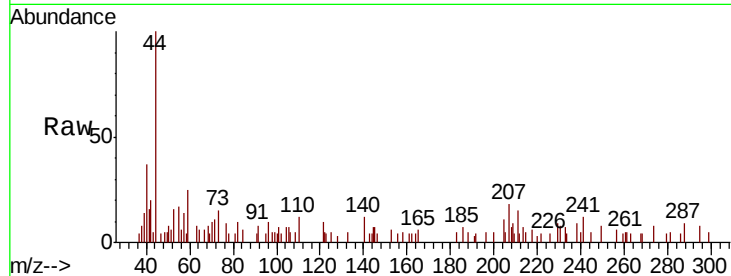




#29
Tetrahydrofuran
Concen: 16.890 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.01 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

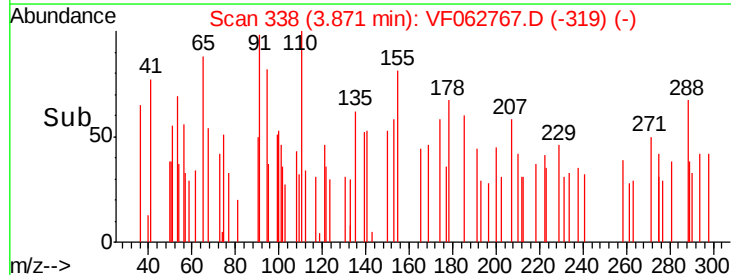
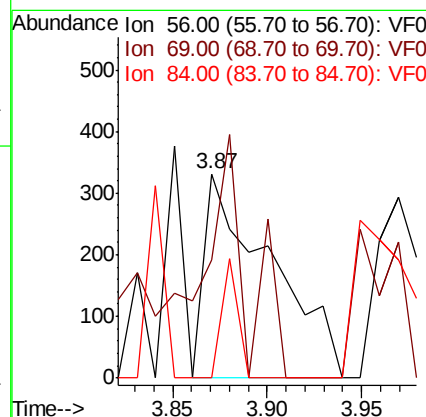
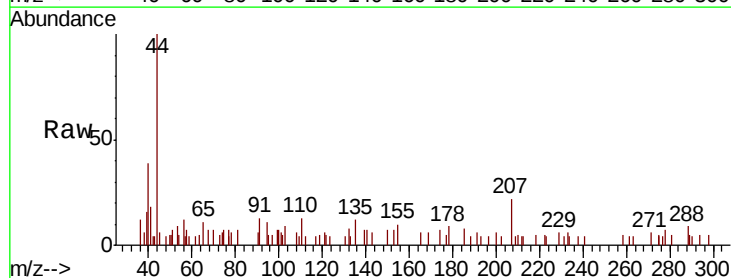
Instrument :
MSVOA_F
ClientSampled :
TP-3

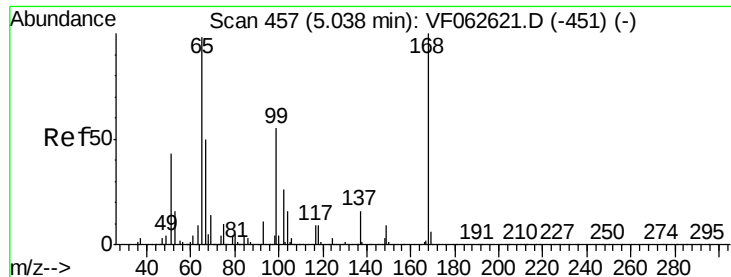
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	38.2	57.2#
71	35.0	35.8	53.6#



#31
Cyclohexane
Concen: 1.162 ug/l
RT: 3.87 min Scan# 338
Delta R.T. -0.01 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Tgt Ion	Ratio	Lower	Upper
56	100		
69	43.0	25.3	37.9#
84	0.0	71.0	106.4#

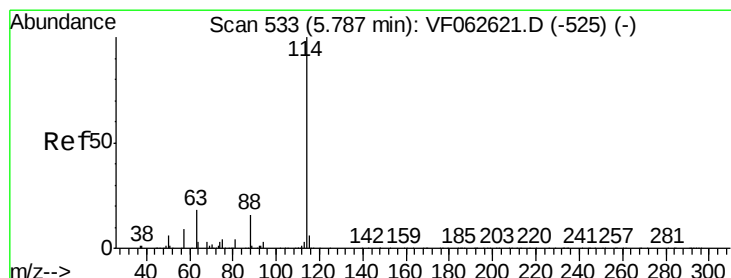
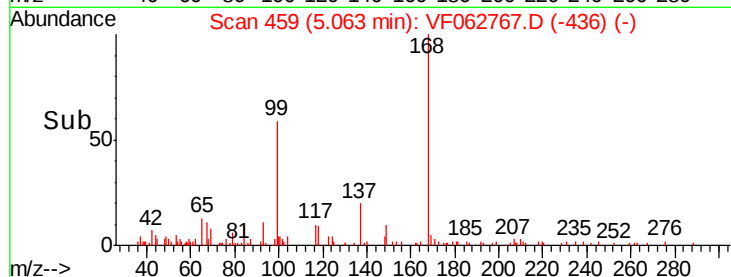
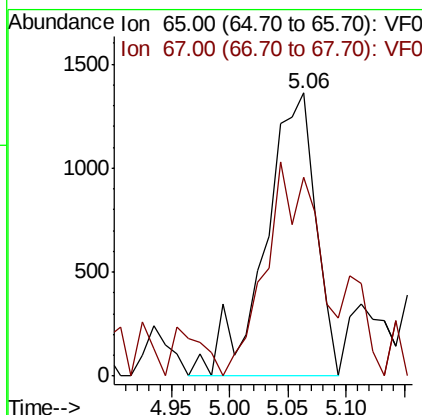
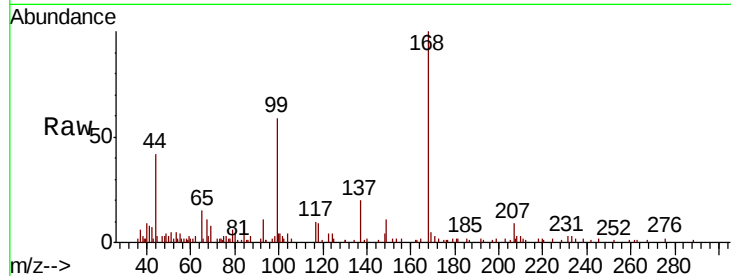




#33
 1,2-Dichloroethane-d4
 Concen: 16.323 ug/l
 RT: 5.06 min Scan# 459
 Delta R.T. 0.03 min
 Lab File: VF062767.D
 Acq: 28 May 2019 18:21

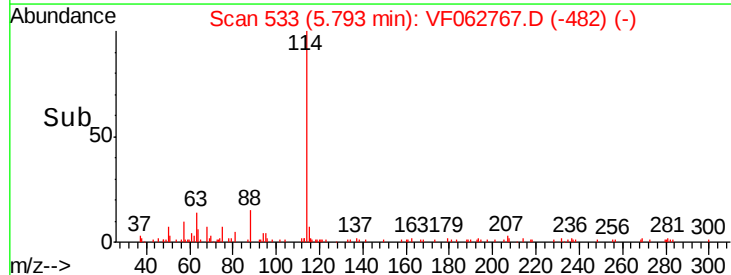
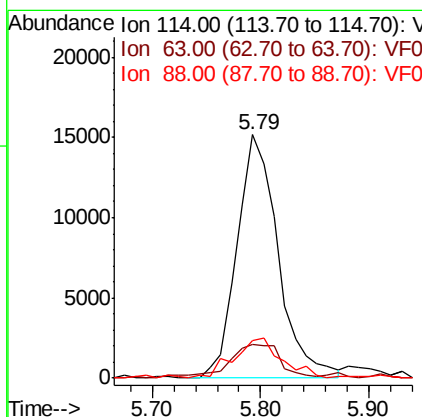
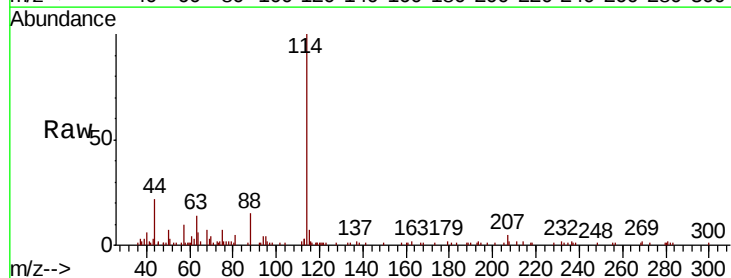
Instrument :
 MSVOA_F
 ClientSampled :
 TP-3

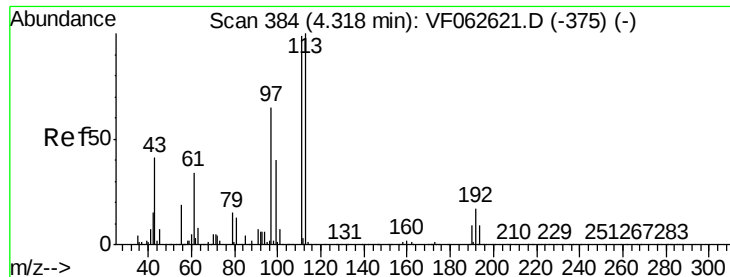
Tot Ion: 65 Resp: 4076
 Ion Ratio Lower Upper
 65 100
 67 62.2 0.0 117.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VF062767.D
 Acq: 28 May 2019 18:21

Tgt Ion:114 Resp: 40117
 Ion Ratio Lower Upper
 114 100
 63 13.7 0.0 35.4
 88 15.3 0.0 32.4

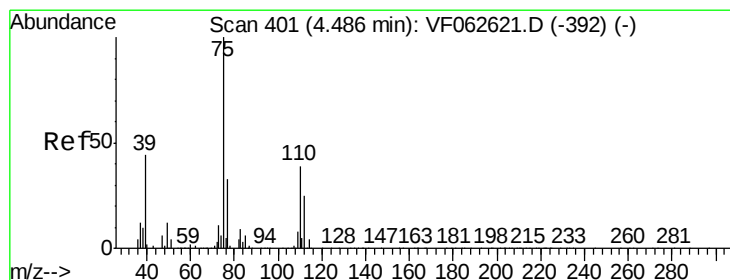
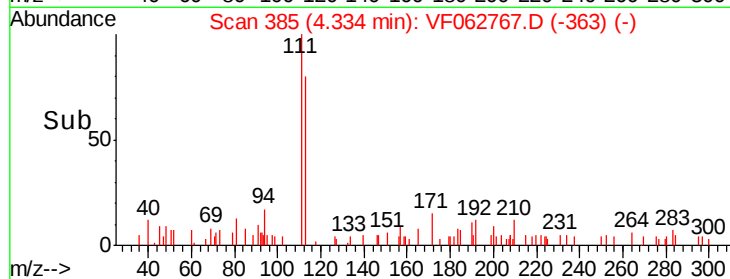
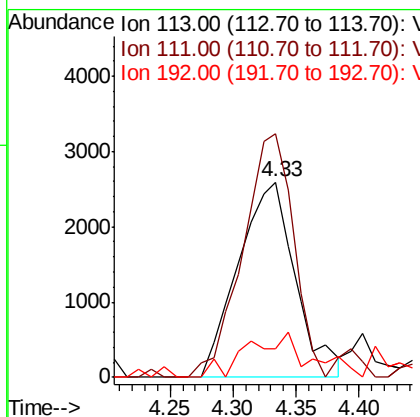
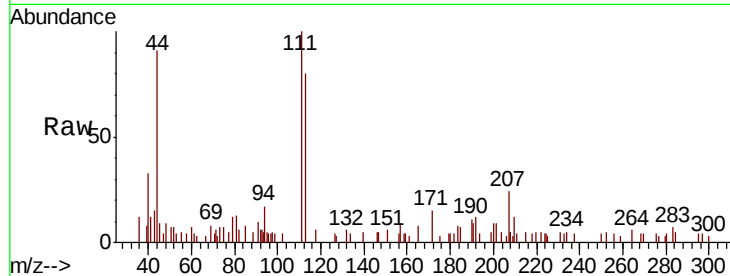




#35
 Dibromofluoromethane
 Concen: 26.640 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062767.D
 Acq: 28 May 2019 18:21

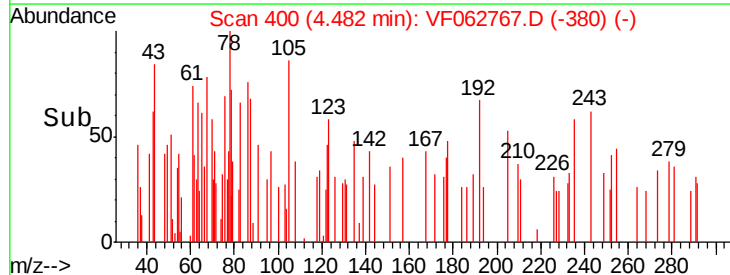
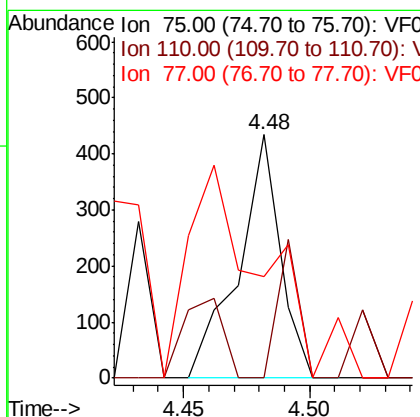
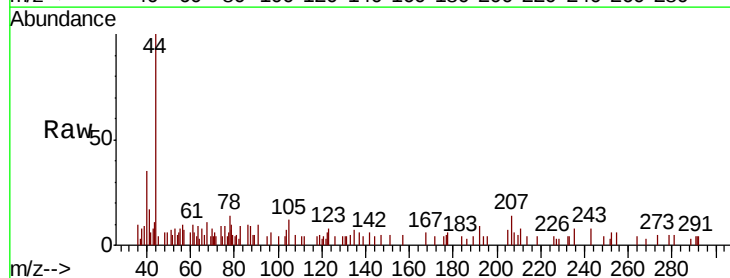
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-3

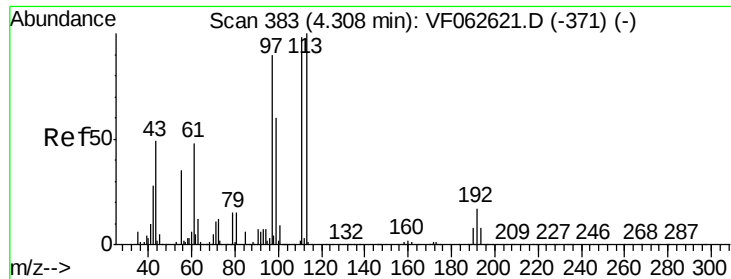
Tot Ion:113 Resp: 8178
 Ion Ratio Lower Upper
 113 100
 111 124.5 79.4 119.2#
 192 14.8 13.4 20.2



#36
 1,1-Dichloropropene
 Concen: 1.221 ug/l
 RT: 4.48 min Scan# 400
 Delta R.T. -0.00 min
 Lab File: VF062767.D
 Acq: 28 May 2019 18:21

Tgt Ion: 75 Resp: 502
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.7 59.1#
 77 41.9 26.3 39.5#

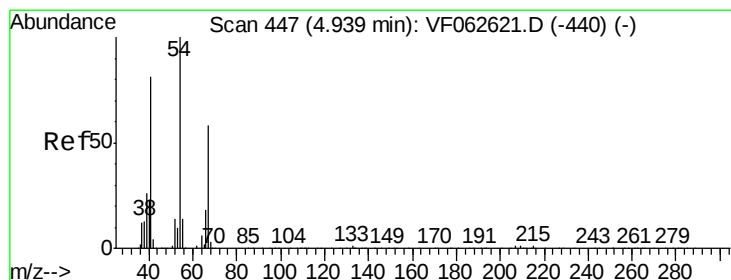
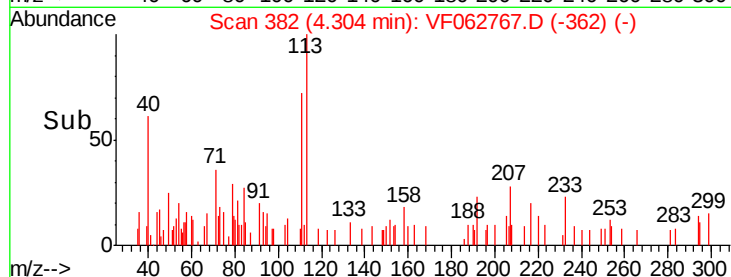
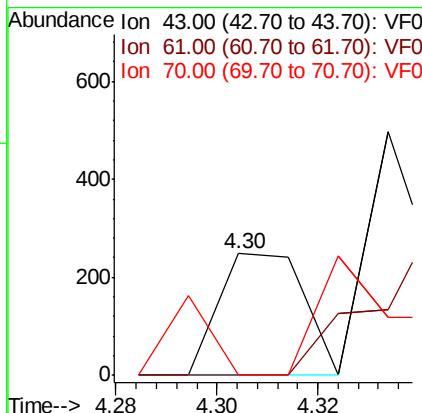
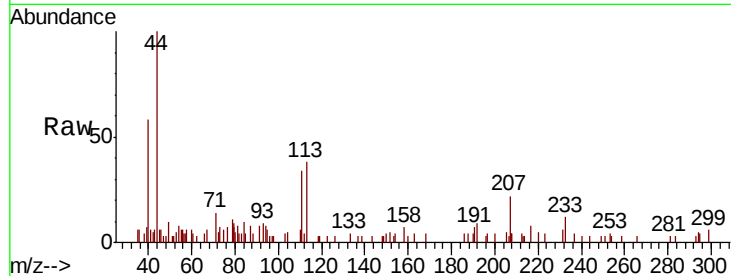




#37
Ethyl Acetate
Concen: 1.728 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.00 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

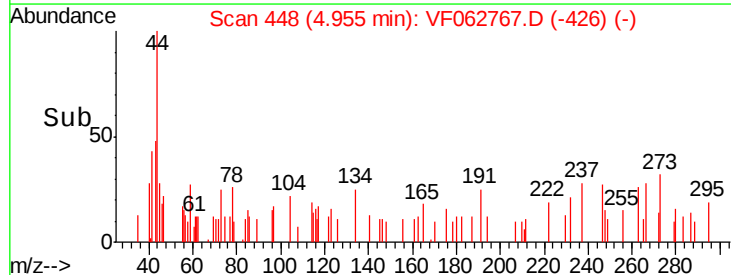
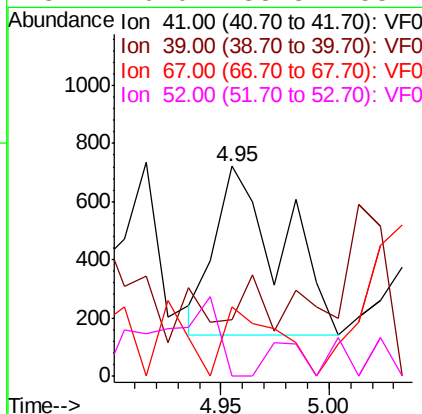
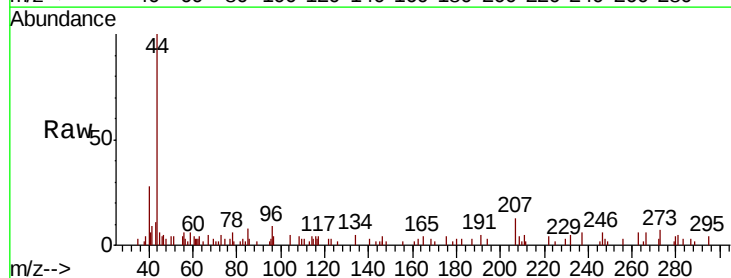
Instrument :
MSVOA_F
ClientSampleId :
TP-3

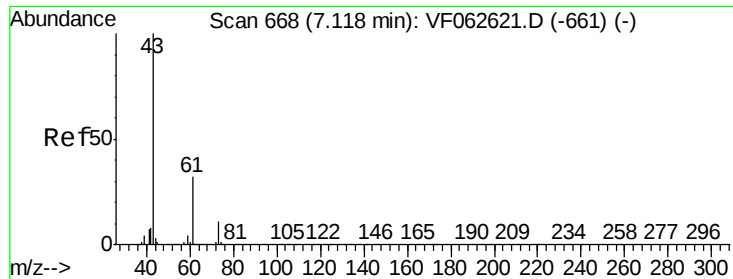
Tot Ion: 43 Resp: 290
Ion Ratio Lower Upper
43 100
61 0.0 76.9 115.3#
70 0.0 8.8 13.2#



#41
Methacrylonitrile
Concen: 14.171 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.02 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Tgt Ion: 41 Resp: 1247
Ion Ratio Lower Upper
41 100
39 26.9 42.2 63.2#
67 33.0 56.4 84.6#
52 0.0 38.8 58.2#





#43

Isopropyl Acetate

Concen: 5.643 ug/l

RT: 7.12 min Scan# 668

Delta R.T. 0.01 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

TP-3

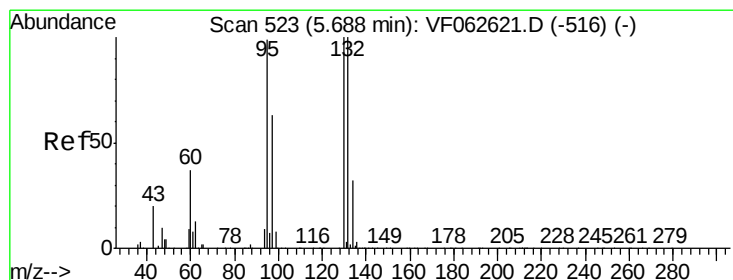
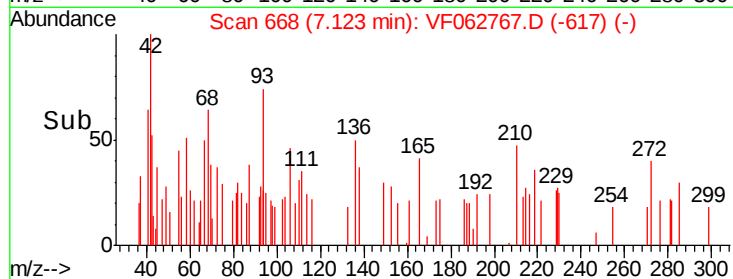
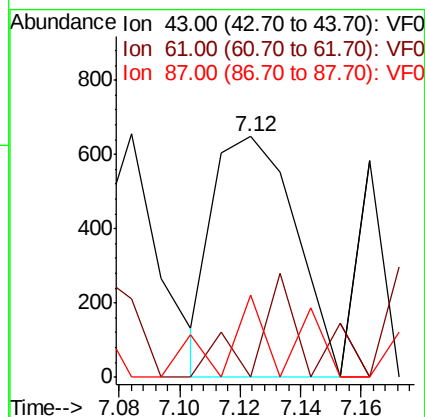
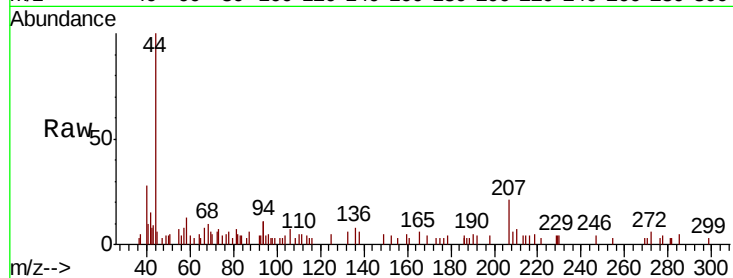
Tot Ion: 43 Resp: 1227

Ion Ratio Lower Upper

43 100

61 0.0 25.8 38.8#

87 34.0 0.4 0.6#



#44

Trichloroethene

Concen: 1.360 ug/l

RT: 5.71 min Scan# 525

Delta R.T. 0.03 min

Lab File: VF062767.D

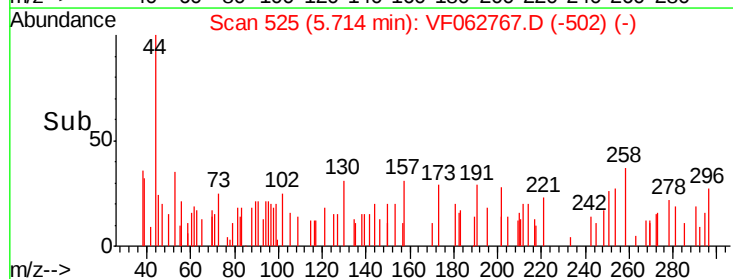
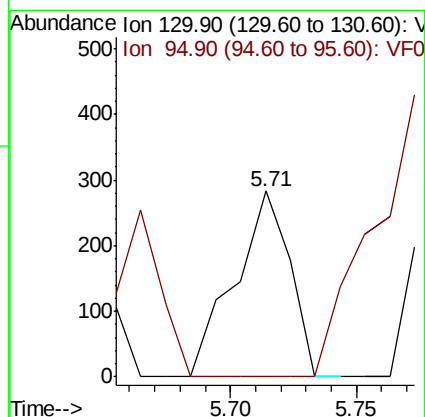
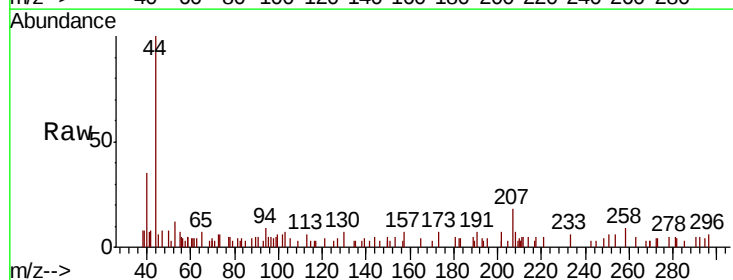
Acq: 28 May 2019 18:21

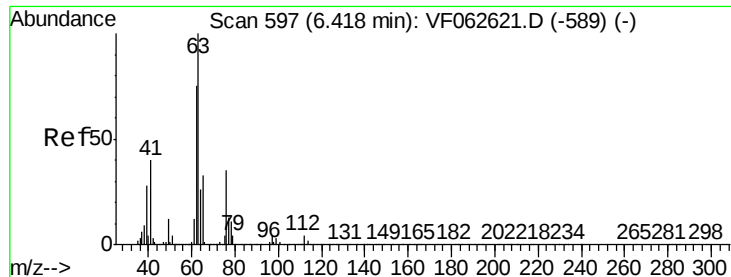
Tgt Ion: 130 Resp: 428

Ion Ratio Lower Upper

130 100

95 68.2 0.0 199.4





#45

1,2-Dichloropropane

Concen: 2.260 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.01 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

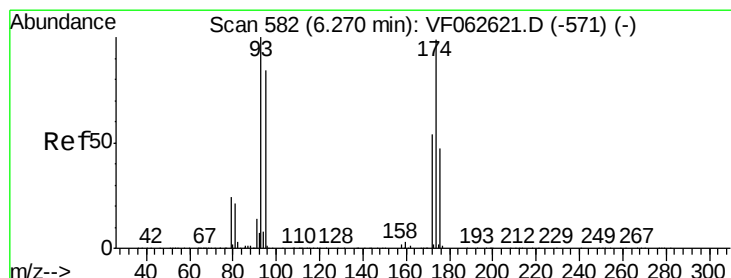
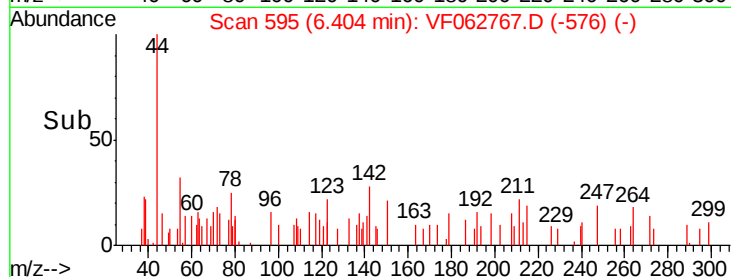
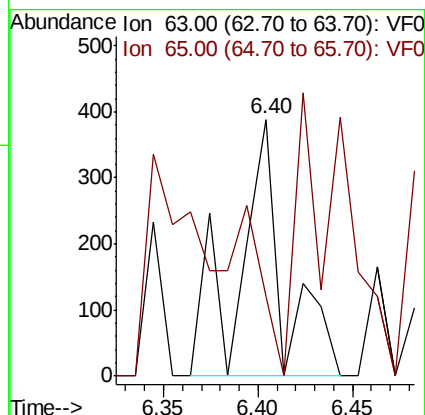
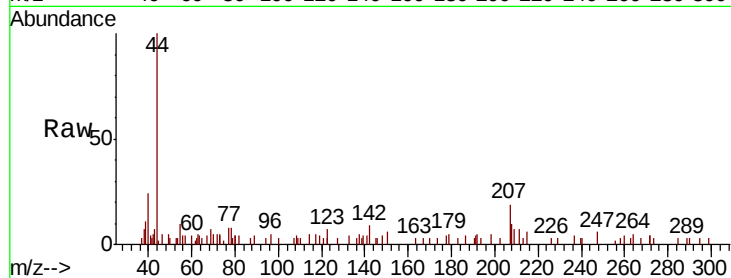
Instrument :
MSVOA_F
ClientSampled :
TP-3

Tot Ion: 63 Resp: 639

Ion Ratio Lower Upper

63 100

65 30.8 26.3 39.5



#46

Dibromomethane

Concen: 1.953 ug/l

RT: 6.27 min Scan# 581

Delta R.T. -0.00 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

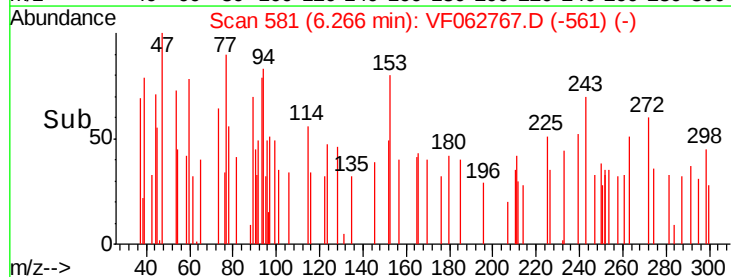
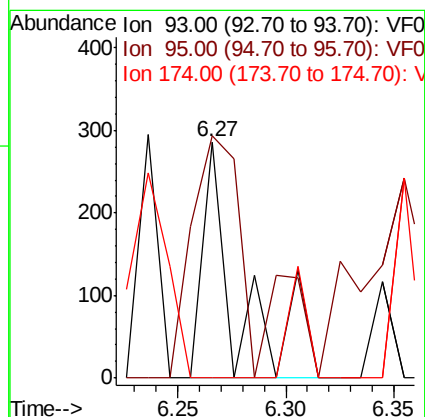
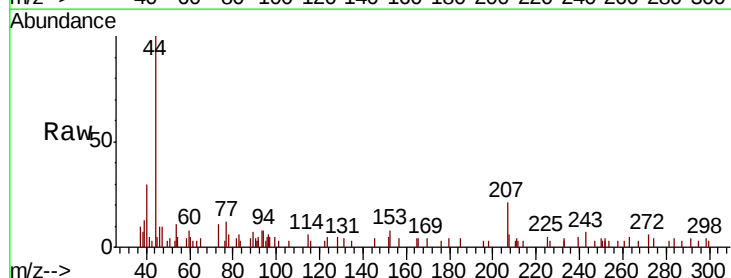
Tgt Ion: 93 Resp: 319

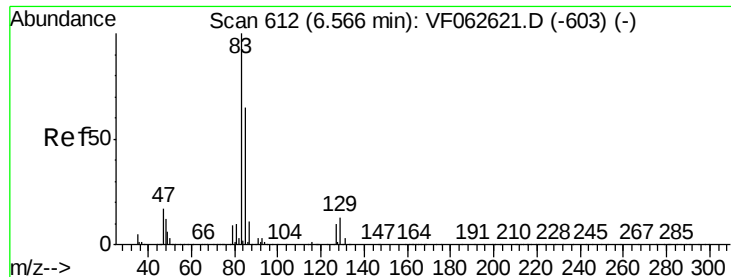
Ion Ratio Lower Upper

93 100

95 102.4 67.4 101.2#

174 0.0 79.4 119.2#





#47

Bromodichloromethane

Concen: 1.681 ug/l

RT: 6.54 min Scan# 609

Delta R.T. -0.02 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

TP-3

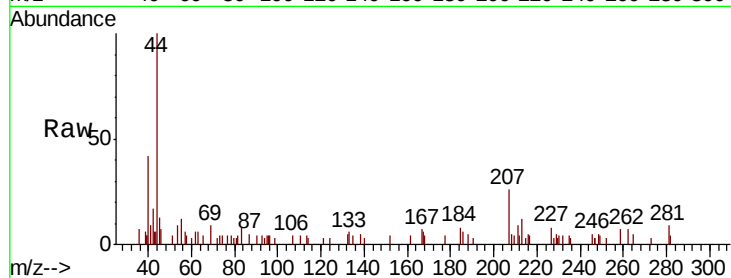
Tot Ion: 83 Resp: 570

Ion Ratio Lower Upper

83 100

85 0.0 52.0 78.0#

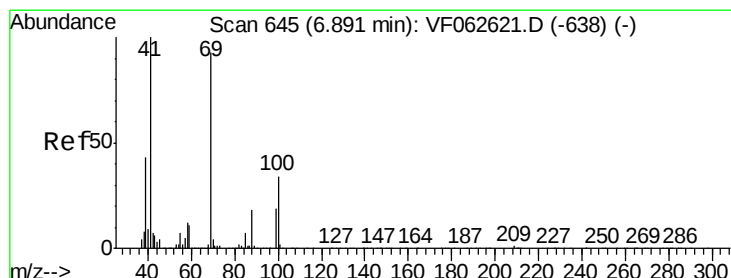
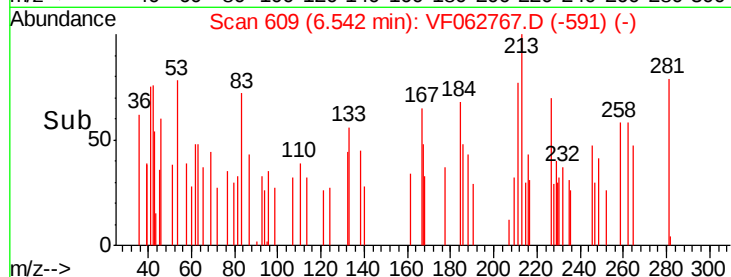
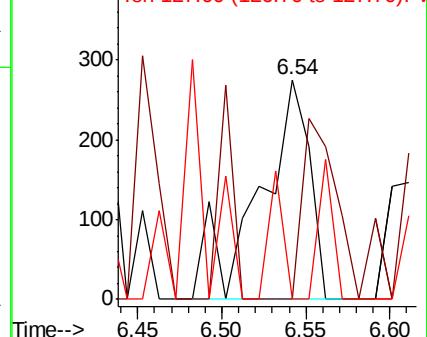
127 0.0 7.7 11.5#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 6.045 ug/l

RT: 6.85 min Scan# 640

Delta R.T. -0.04 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

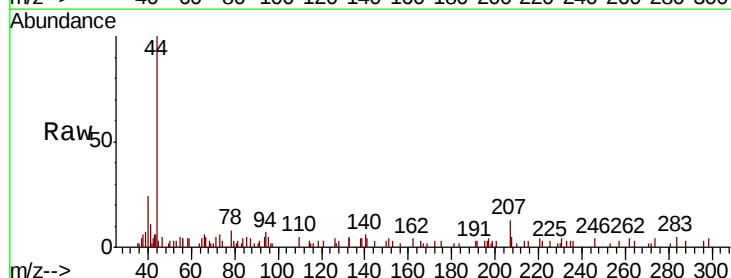
Tgt Ion: 41 Resp: 687

Ion Ratio Lower Upper

41 100

69 16.4 74.2 111.2#

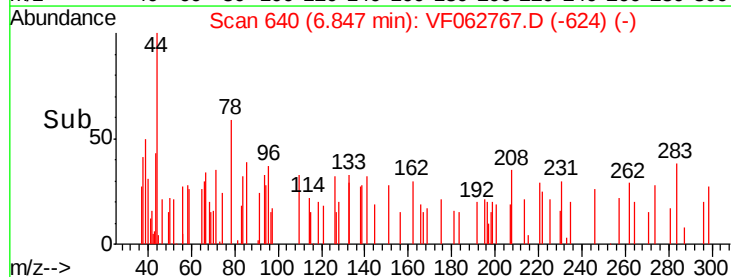
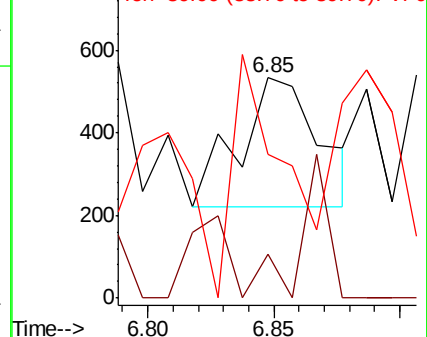
39 54.0 34.2 51.4#

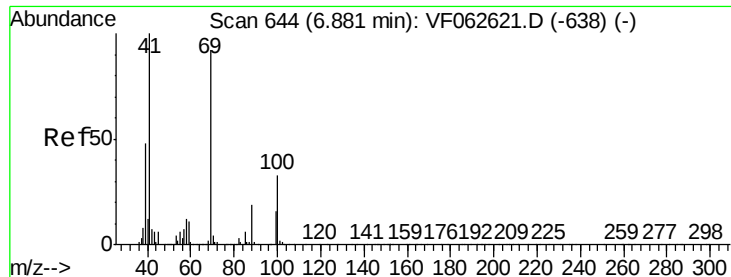


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

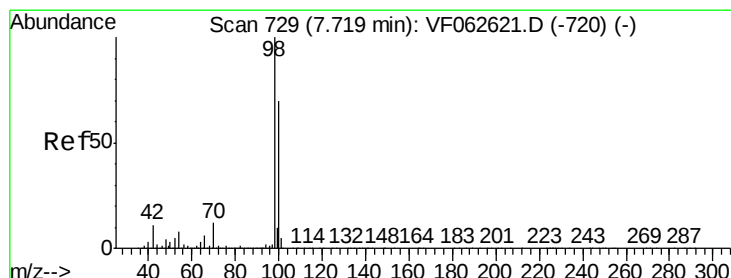
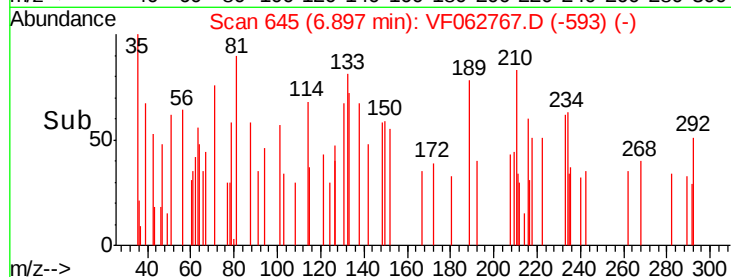
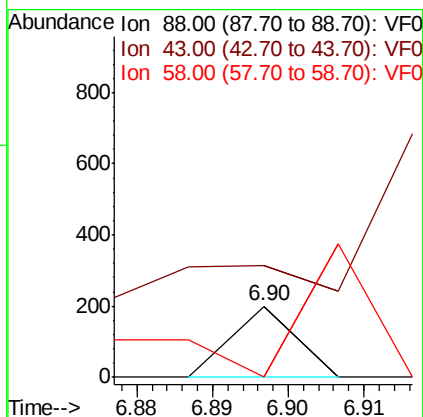
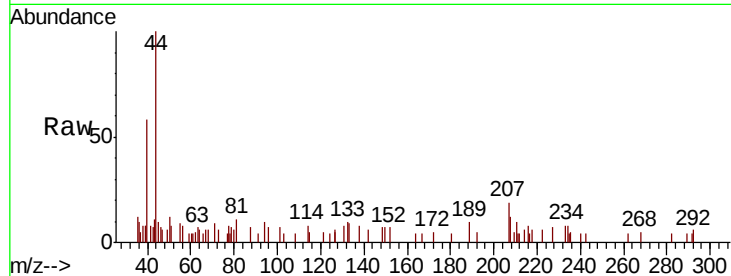




#49
1,4-Dioxane
Concen: 81.061 ug/l
RT: 6.90 min Scan# 645
Delta R.T. 0.02 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

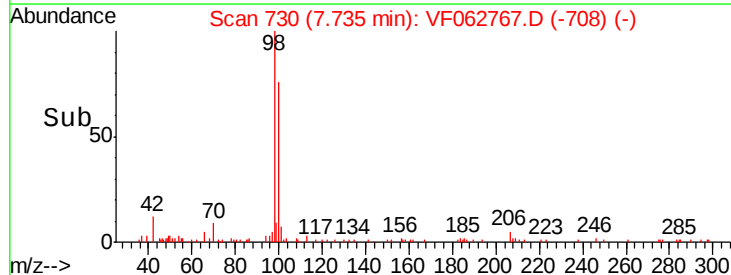
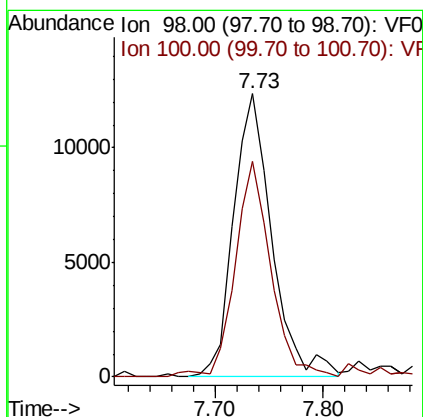
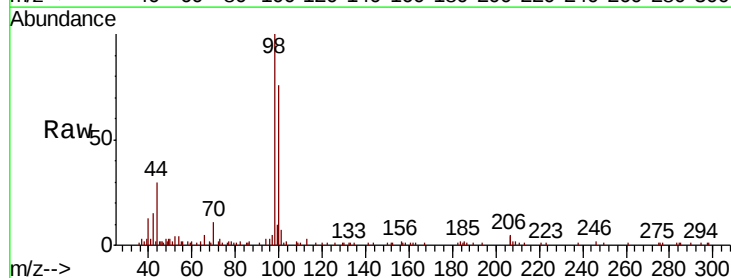
Instrument :
MSVOA_F
ClientSampled :
TP-3

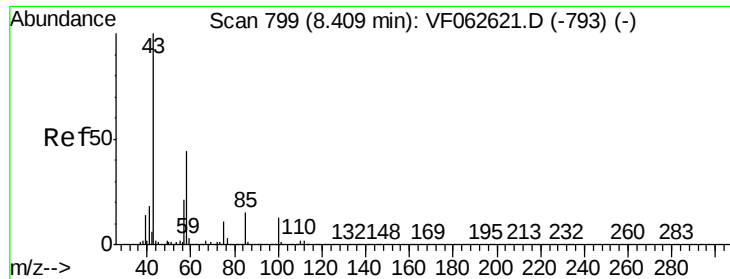
Tot Ion: 88 Resp: 118
Ion Ratio Lower Upper
88 100
43 157.8 30.0 45.0#
58 0.0 51.1 76.7#



#50
Toluene-d8
Concen: 41.505 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.02 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Tgt Ion: 98 Resp: 30421
Ion Ratio Lower Upper
98 100
100 76.0 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 5.934 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.03 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

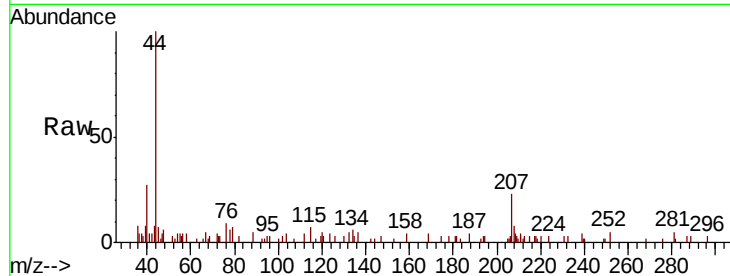
TP-3

Tot Ion: 43 Resp: 882

Ion Ratio Lower Upper

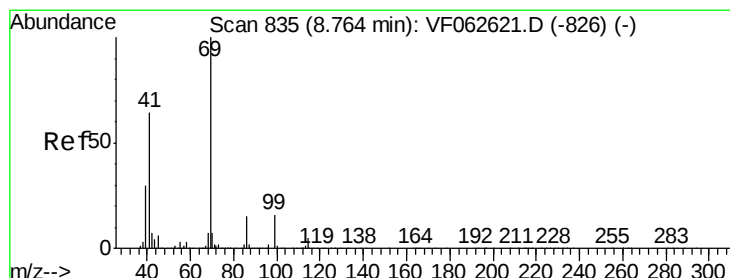
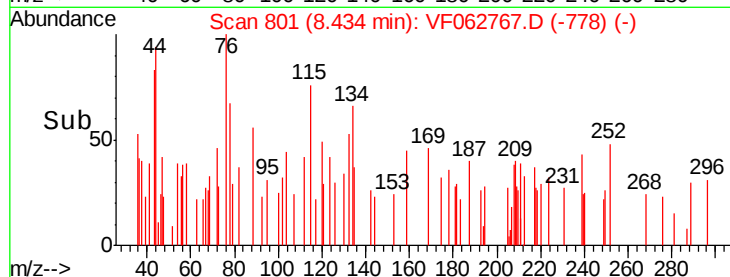
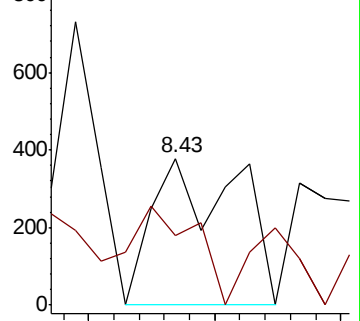
43 100

58 47.1 34.9 52.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 3.128 ug/l

RT: 8.77 min Scan# 835

Delta R.T. 0.01 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

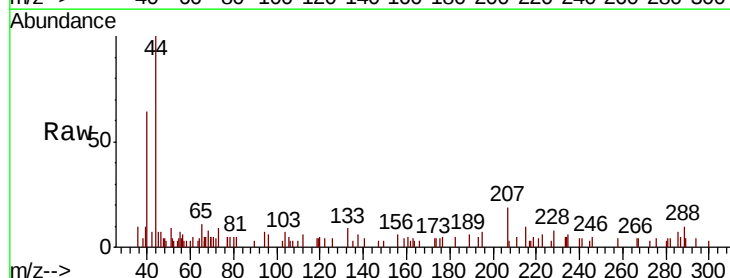
Tgt Ion: 69 Resp: 648

Ion Ratio Lower Upper

69 100

41 0.0 51.4 77.2#

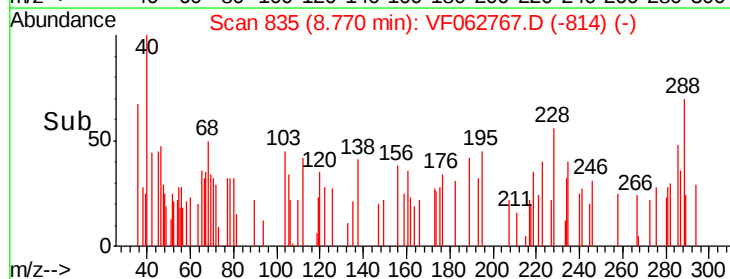
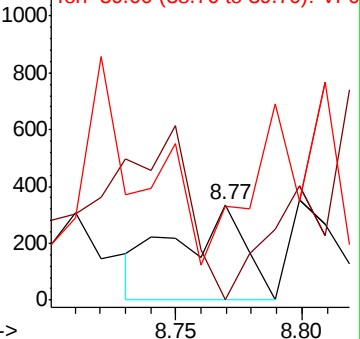
39 97.9 23.6 35.4#

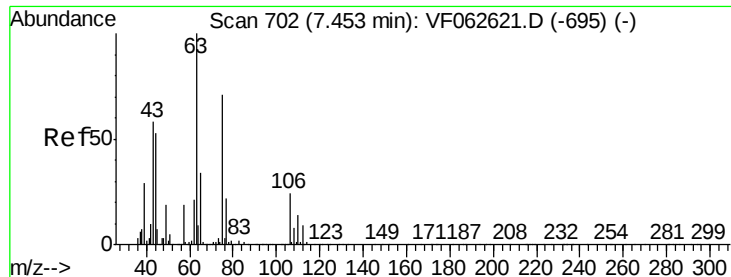


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

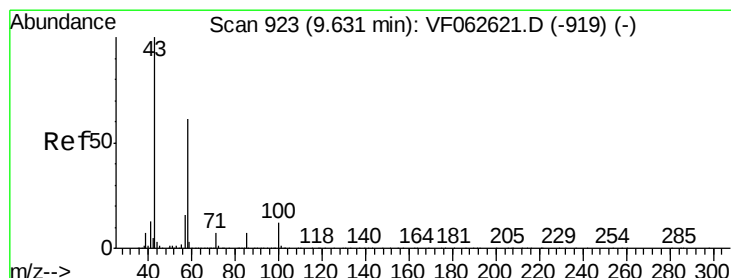
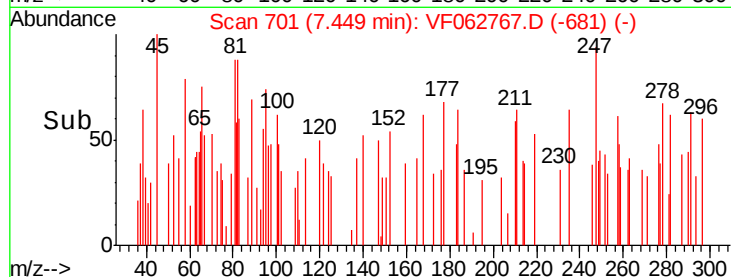
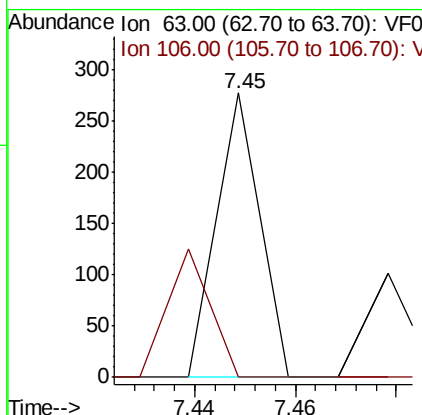
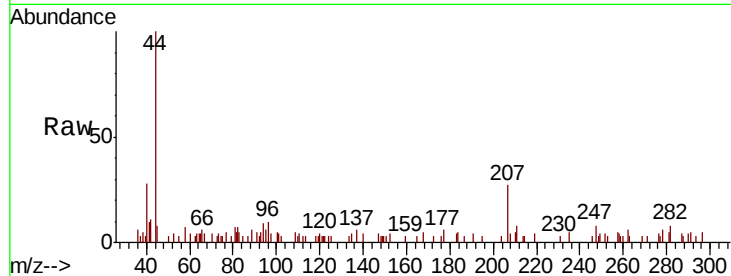




#58
2-Chloroethyl Vinyl ether
Concen: 2.432 ug/l
RT: 7.45 min Scan# 701
Delta R.T. -0.00 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

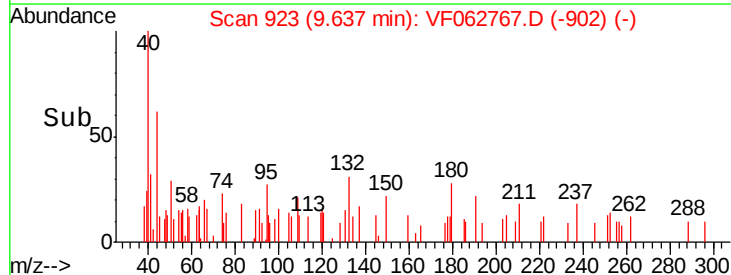
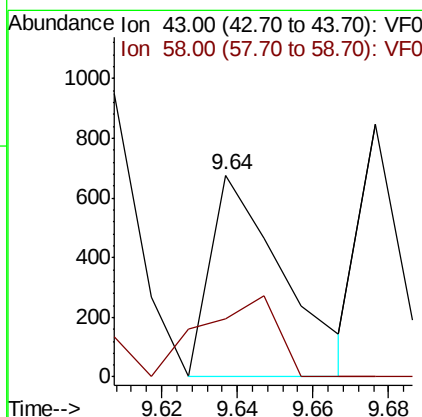
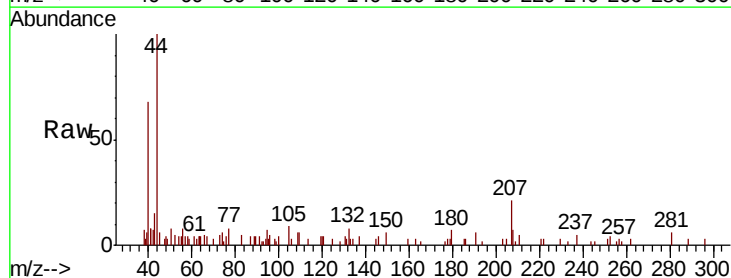
Instrument :
MSVOA_F
ClientSampled :
TP-3

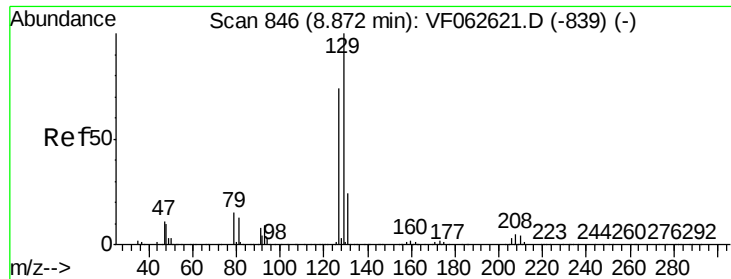
Tot Ion: 63 Resp: 164
Ion Ratio Lower Upper
63 100
106 0.0 19.1 28.7#



#59
2-Hexanone
Concen: Below Cal
RT: 9.64 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Tgt Ion: 43 Resp: 899
Ion Ratio Lower Upper
43 100
58 28.8 28.1 84.4





#60

Dibromochloromethane

Concen: 1.002 ug/l

RT: 8.89 min Scan# 847

Delta R.T. 0.02 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampleId :

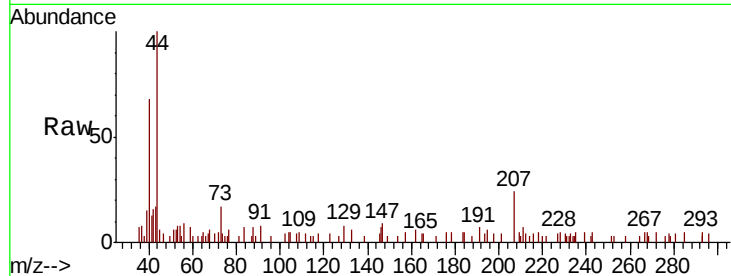
TP-3

Tot Ion:129 Resp: 227

Ion Ratio Lower Upper

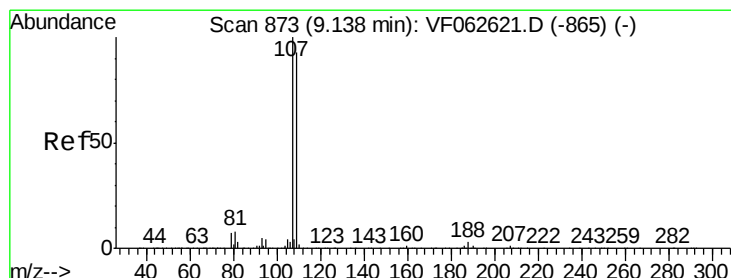
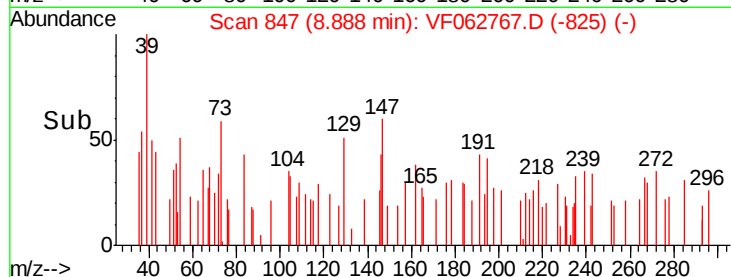
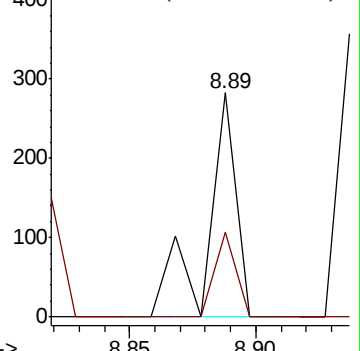
129 100

127 37.9 37.2 111.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#61

1,2-Dibromoethane

Concen: 1.760 ug/l

RT: 9.12 min Scan# 871

Delta R.T. -0.01 min

Lab File: VF062767.D

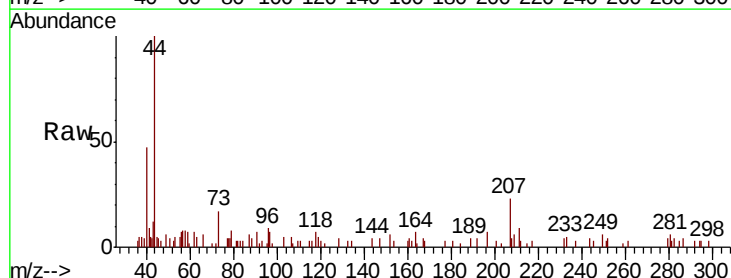
Acq: 28 May 2019 18:21

Tgt Ion:107 Resp: 325

Ion Ratio Lower Upper

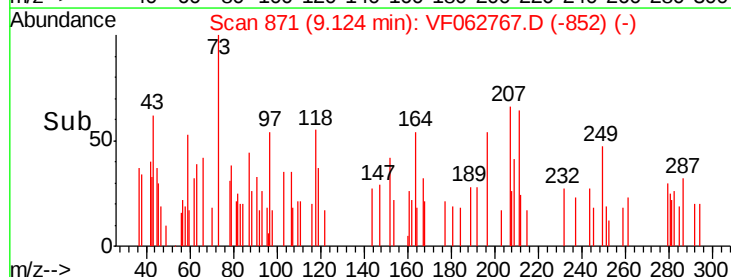
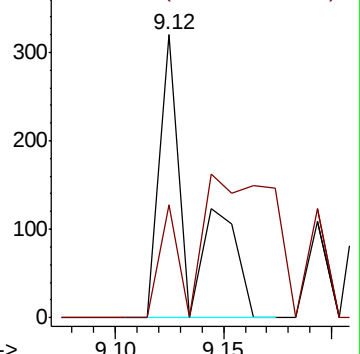
107 100

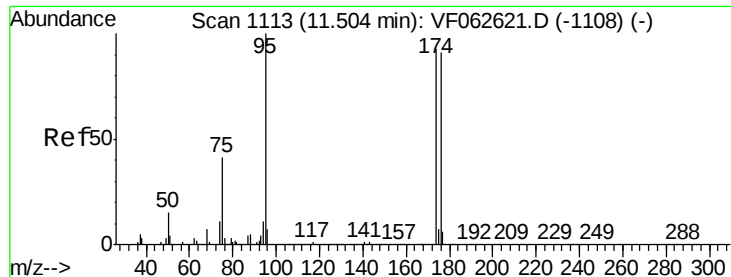
109 39.7 74.8 112.2#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#62

4-Bromofluorobenzene

Concen: 16.670 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampleId :

TP-3

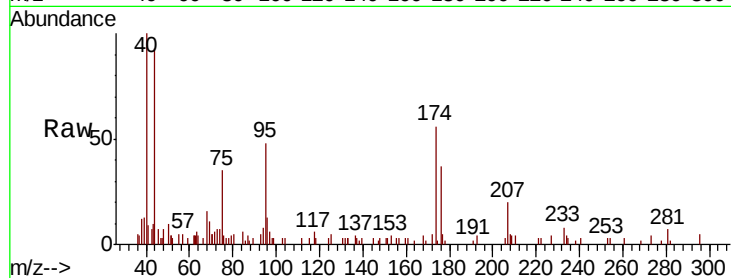
Tot Ion: 95 Resp: 4634

Ion Ratio Lower Upper

95 100

174 120.5 0.0 185.6

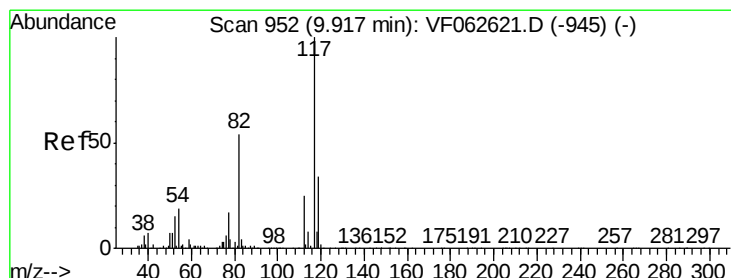
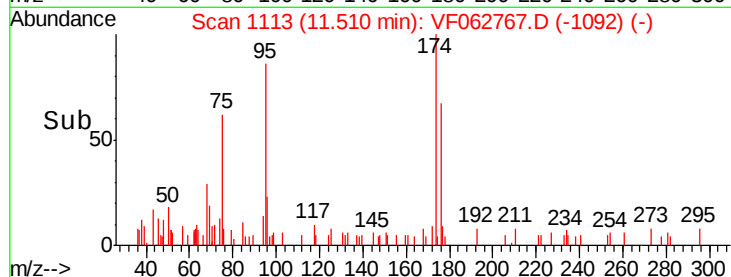
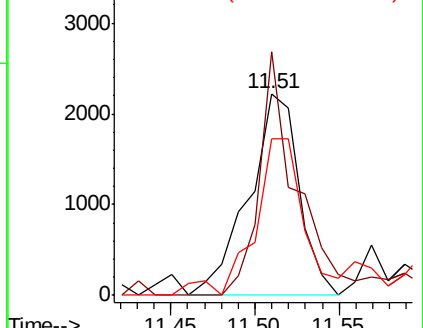
176 77.5 0.0 182.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.02 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

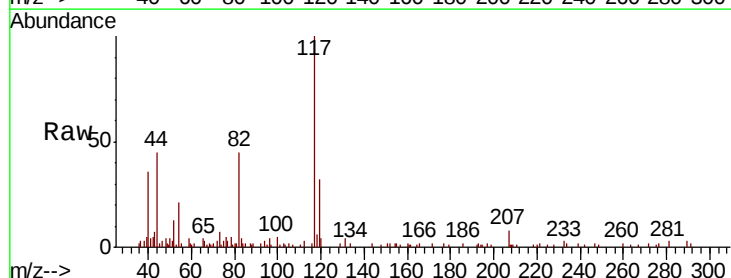
Tgt Ion: 117 Resp: 22310

Ion Ratio Lower Upper

117 100

82 45.4 43.3 64.9

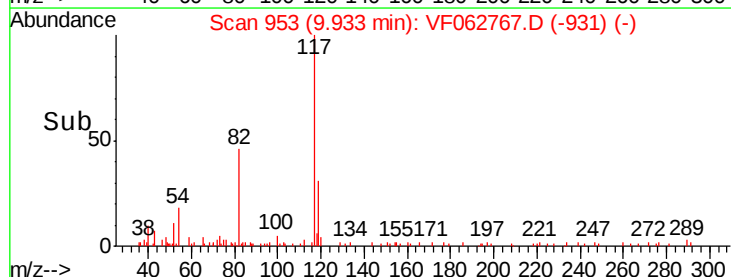
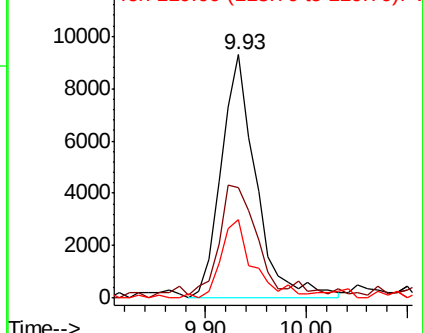
119 32.1 27.4 41.0

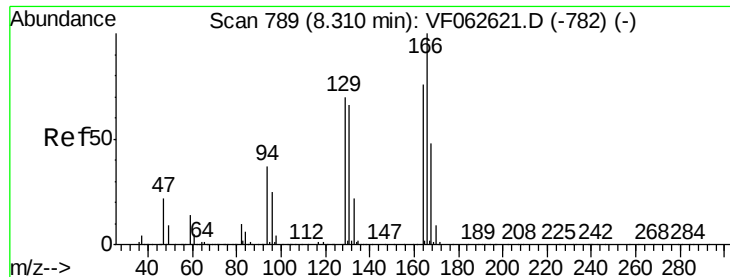


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#64

Tetrachloroethene

Concen: 1.041 ug/l

RT: 8.33 min Scan# 790

Delta R.T. 0.02 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

TP-3

Tot Ion:164 Resp: 184

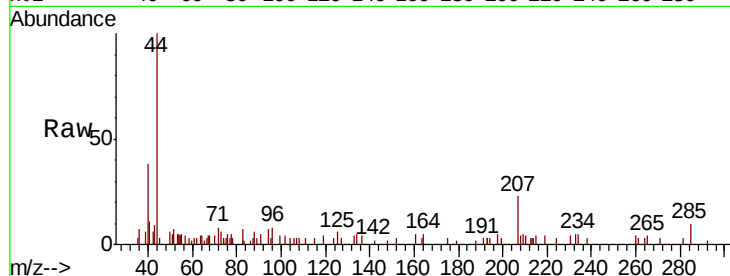
Ion Ratio Lower Upper

164 100

166 0.0 105.5 158.3#

129 0.0 73.8 110.6#

131 0.0 69.5 104.3#

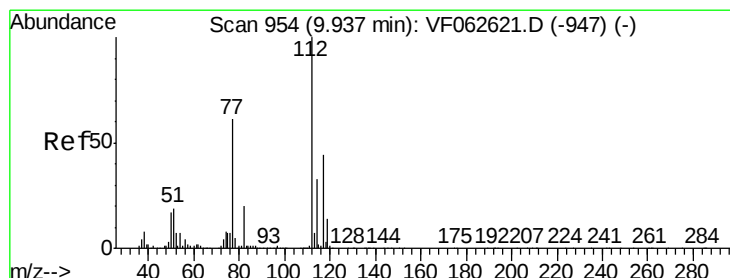
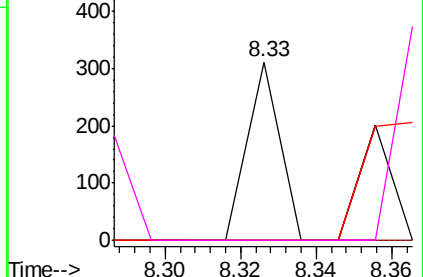
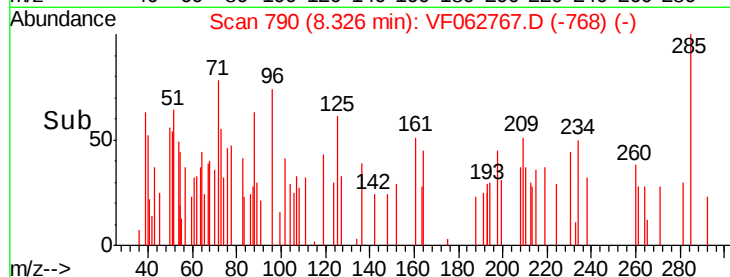


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#65

Chlorobenzene

Concen: 1.244 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.02 min

Lab File: VF062767.D

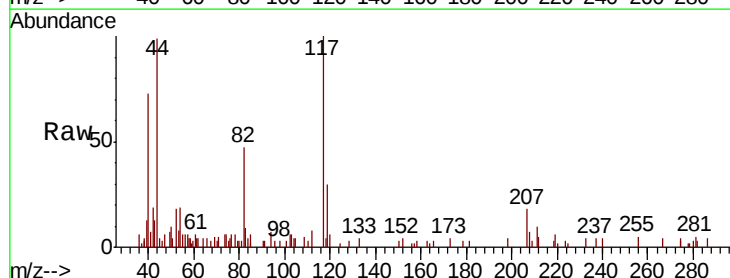
Acq: 28 May 2019 18:21

Tgt Ion:112 Resp: 545

Ion Ratio Lower Upper

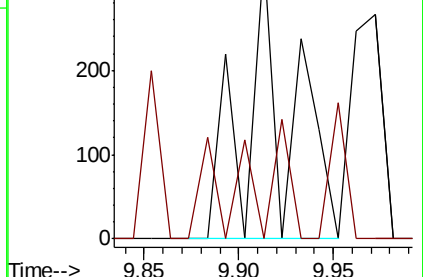
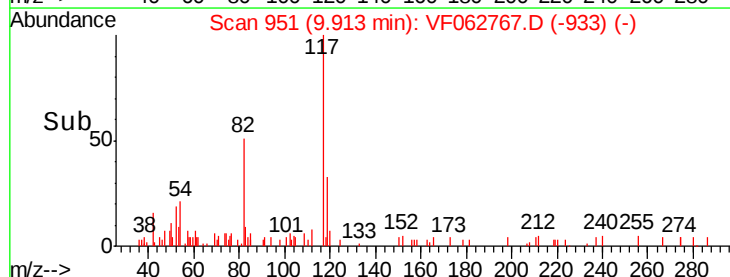
112 100

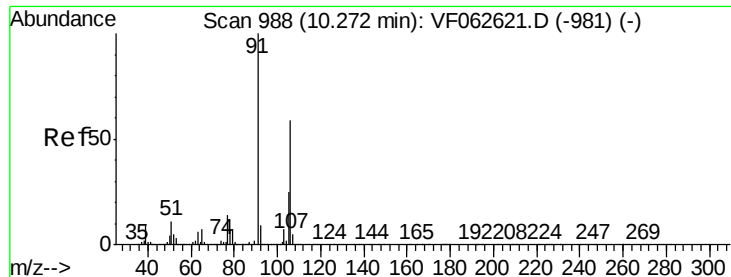
114 0.0 26.8 40.2#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

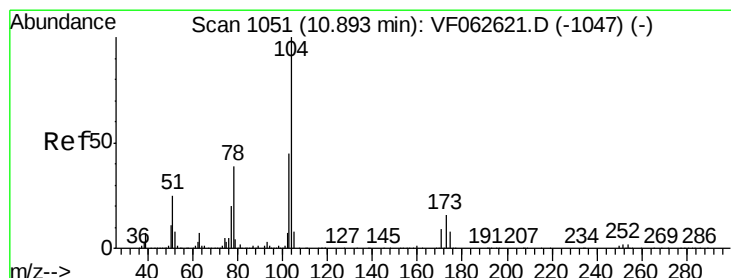
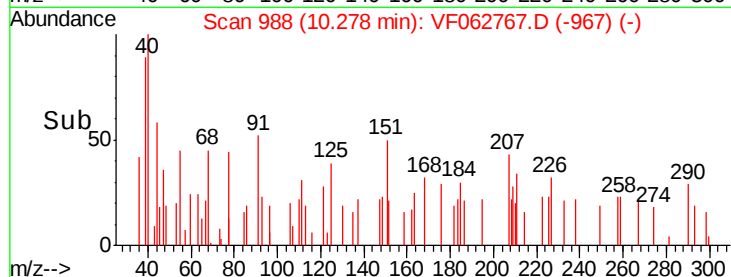
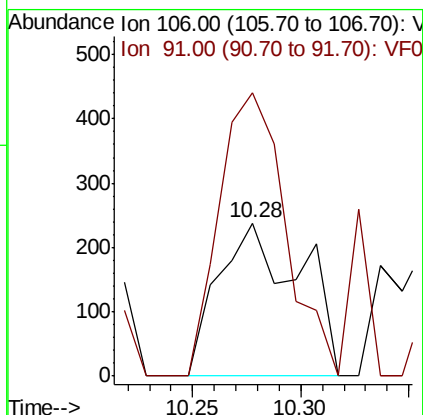
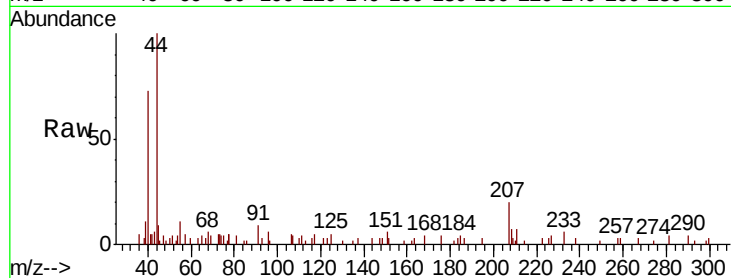




#68
m/p-Xvlenes
Concen: 2.195 ug/l
RT: 10.28 min Scan# 988
Delta R.T. 0.01 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

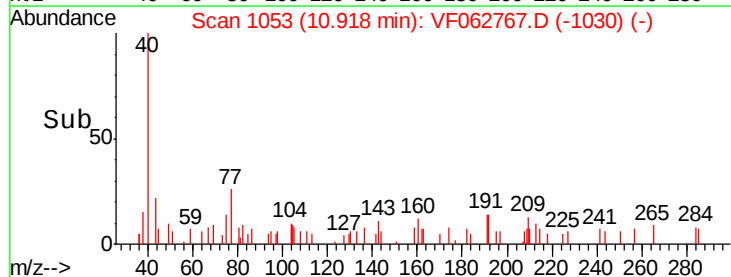
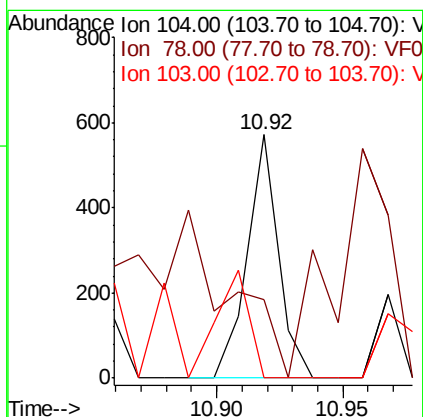
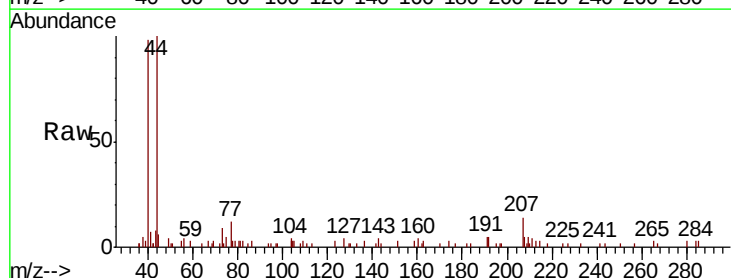
Instrument :
MSVOA_F
ClientSampled :
TP-3

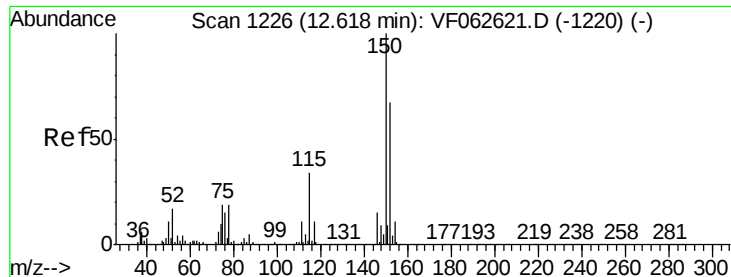
Tot Ion:106 Resp: 628
Ion Ratio Lower Upper
106 100
91 184.9 136.9 205.3



#70
Styrene
Concen: 1.094 ug/l
RT: 10.92 min Scan# 1053
Delta R.T. 0.03 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Tgt Ion:104 Resp: 490
Ion Ratio Lower Upper
104 100
78 32.5 31.9 47.9
103 0.0 36.1 54.1#



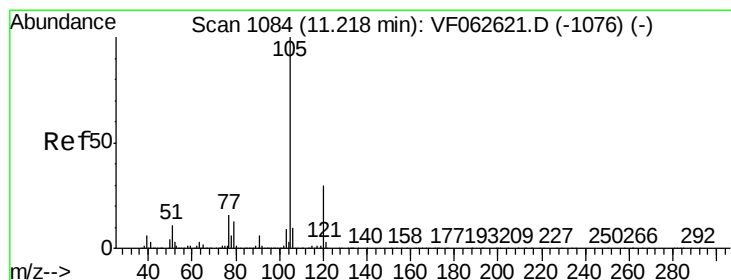
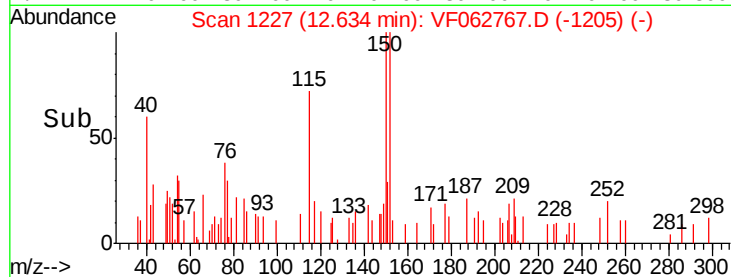
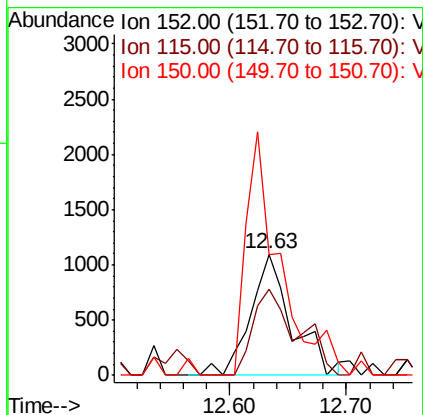
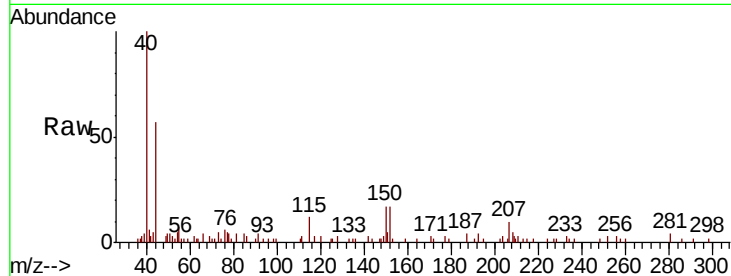


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. 0.02 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Instrument :
MSVOA_F
ClientSampleId :
TP-3

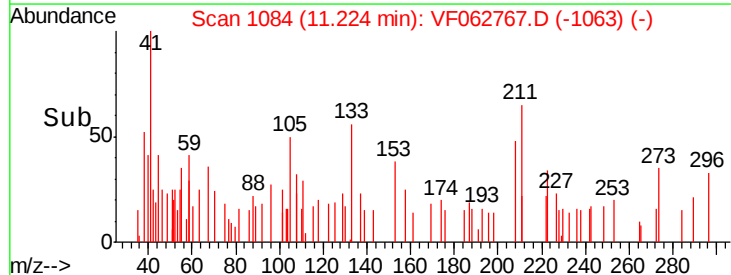
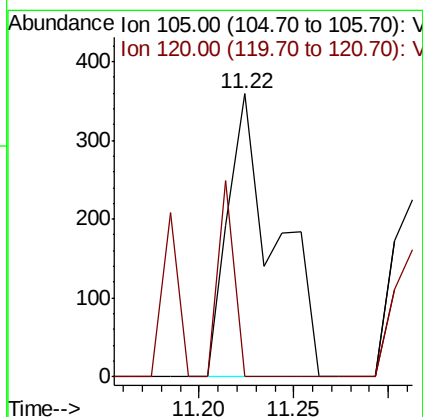
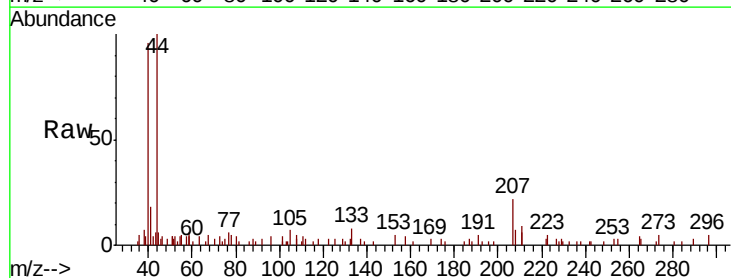
Tot Ion	Ratio	Lower	Upper
152	100		
115	71.5	25.2	75.6
150	99.5	0.0	306.2

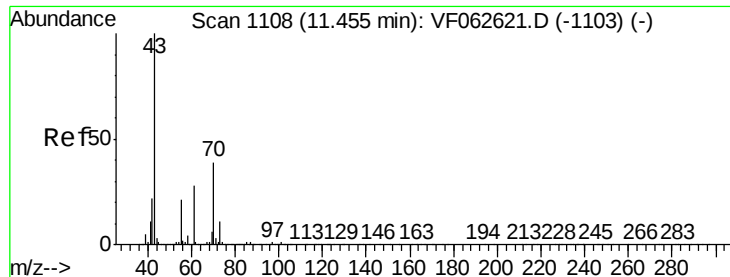


#73

Isopropylbenzene
Concen: 3.239 ug/l
RT: 11.22 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	14.8	44.4#





#74

N-amvl acetate

Concen: 17.425 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

TP-3

Tot Ion: 43 Resp: 1028

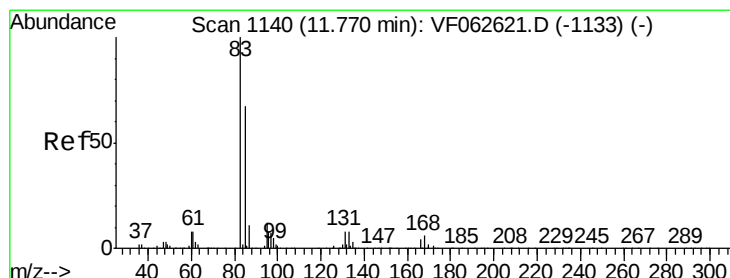
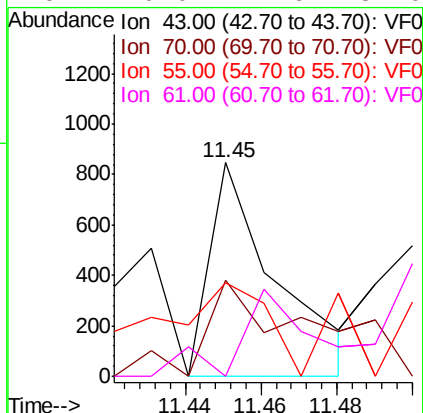
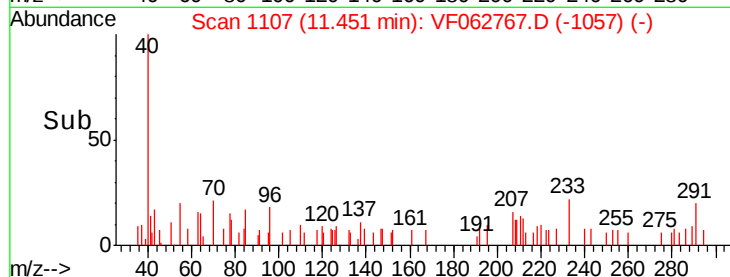
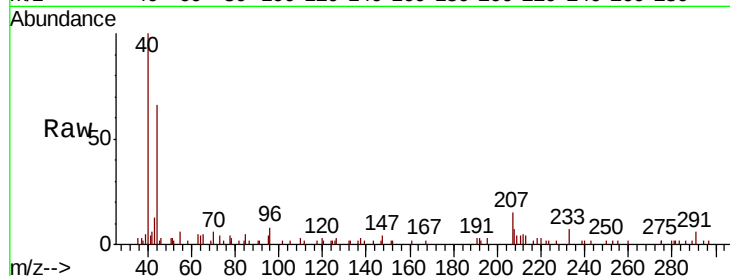
Ion Ratio Lower Upper

43 100

70 44.9 30.9 46.3

55 43.8 17.0 25.4#

61 0.0 22.6 34.0#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.826 ug/l

RT: 11.78 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

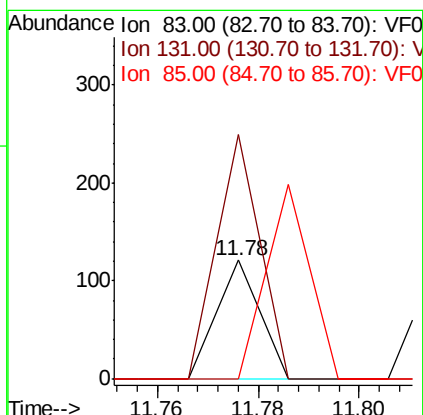
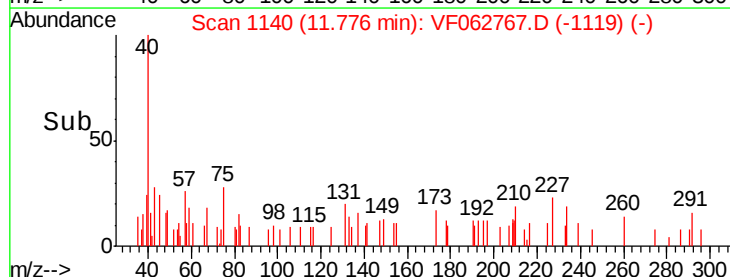
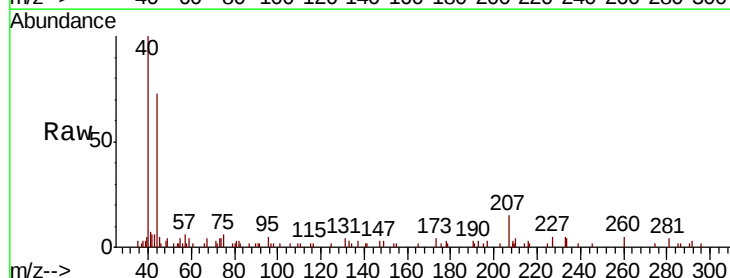
Tgt Ion: 83 Resp: 72

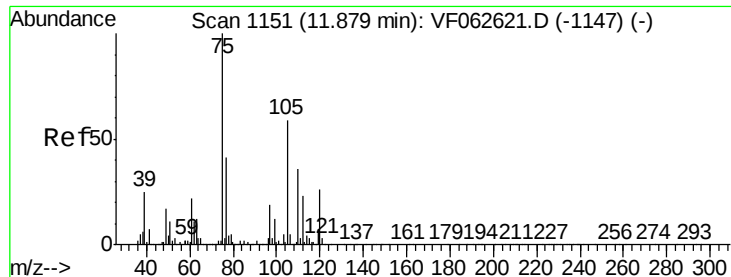
Ion Ratio Lower Upper

83 100

131 205.8 4.0 12.0#

85 0.0 33.5 100.5#





#76

1,2,3-Trichloropropane

Concen: 7.797 ug/l

RT: 12.01 min Scan# 1164

Delta R.T. 0.13 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

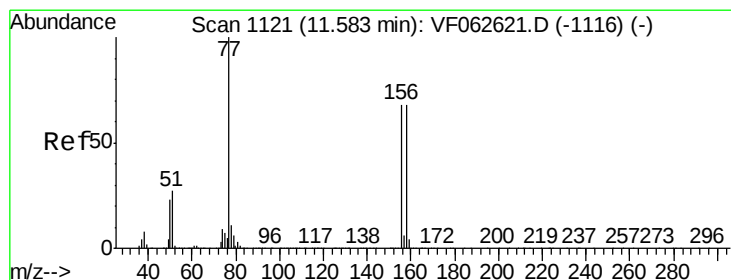
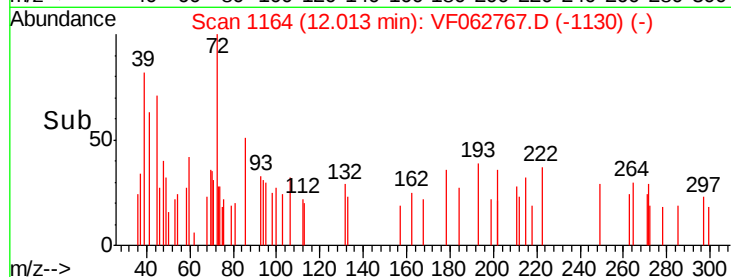
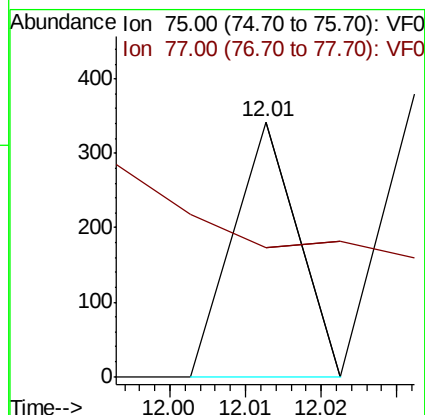
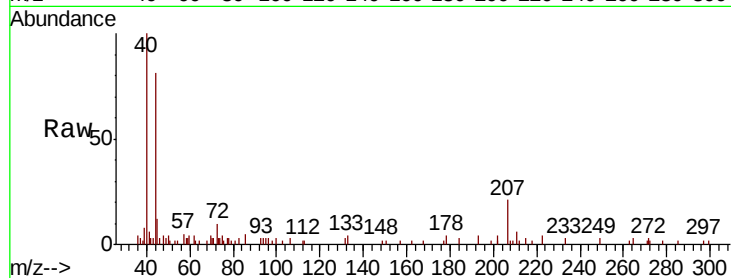
TP-3

Tot Ion: 75 Resp: 202

Ion Ratio Lower Upper

75 100

77 50.6 20.6 61.8



#77

Bromobenzene

Concen: 5.380 ug/l

RT: 11.60 min Scan# 1122

Delta R.T. 0.02 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

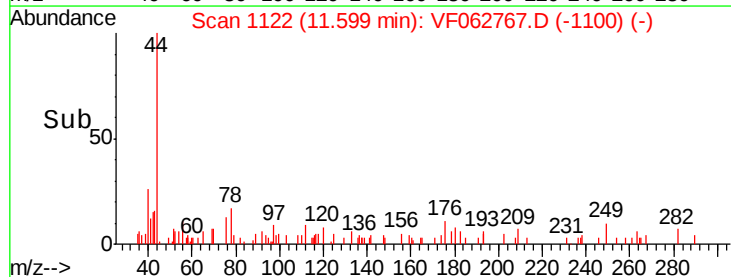
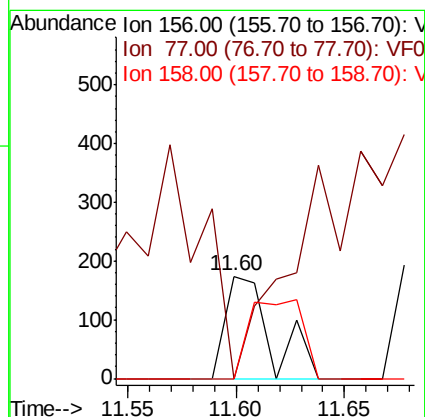
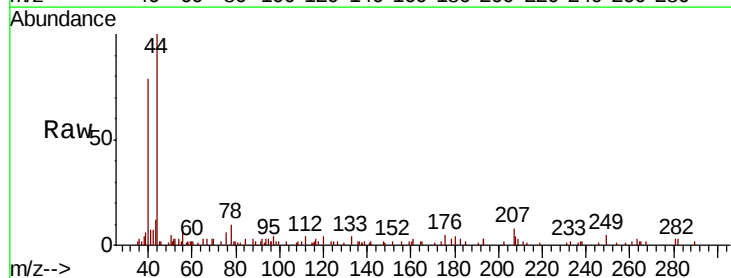
Tgt Ion: 156 Resp: 258

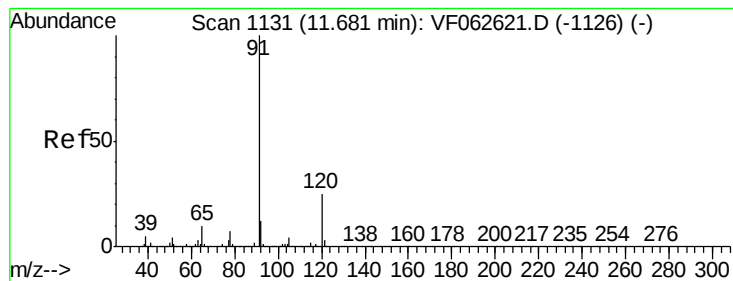
Ion Ratio Lower Upper

156 100

77 0.0 73.6 220.8#

158 0.0 49.6 148.8#





#78

n-propylbenzene

Concen: 2.650 ug/l

RT: 11.68 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

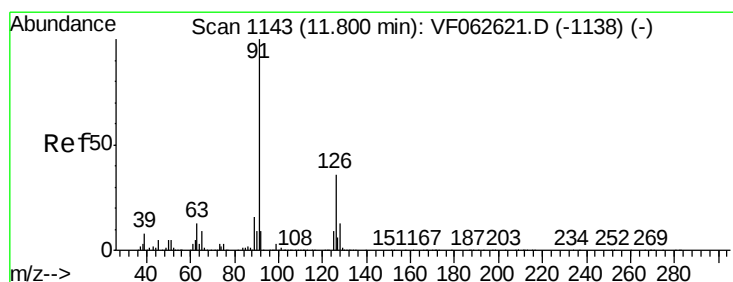
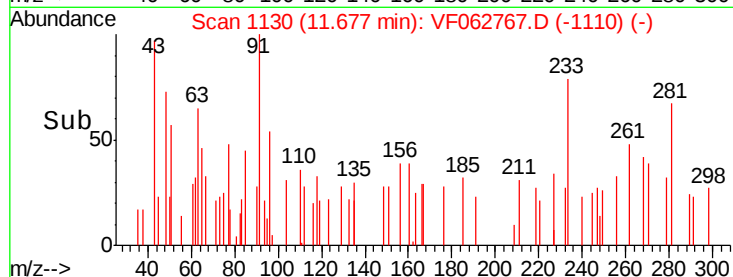
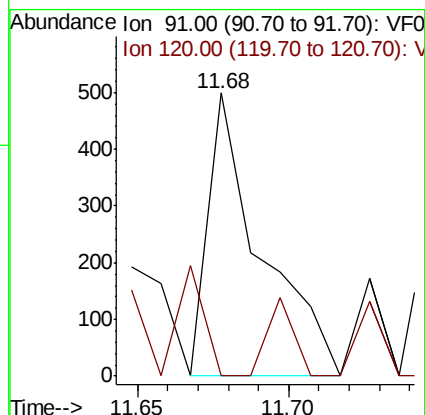
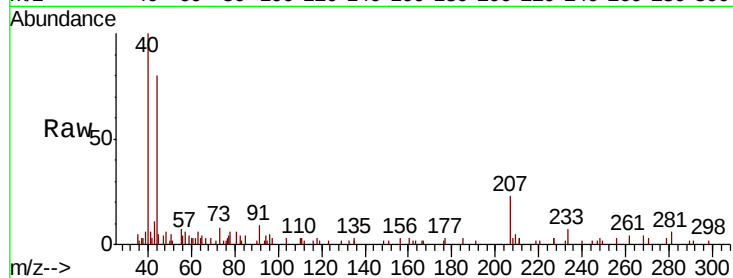
TP-3

Tot Ion: 91 Resp: 605

Ion Ratio Lower Upper

91 100

120 0.0 12.7 38.1#



#79

2-Chlorotoluene

Concen: 1.080 ug/l

RT: 11.80 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062767.D

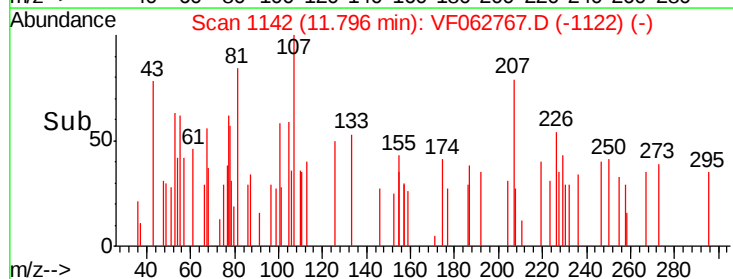
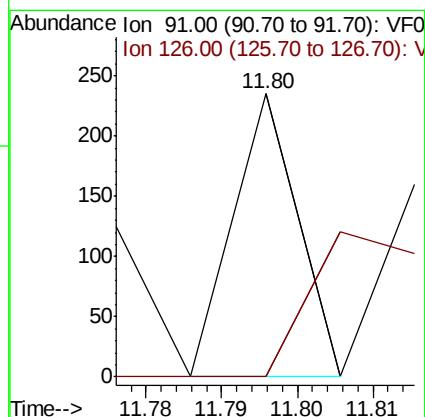
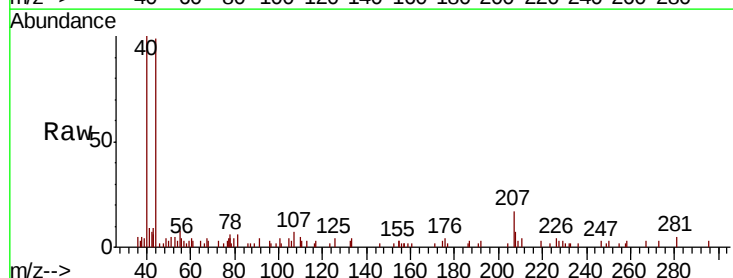
Acq: 28 May 2019 18:21

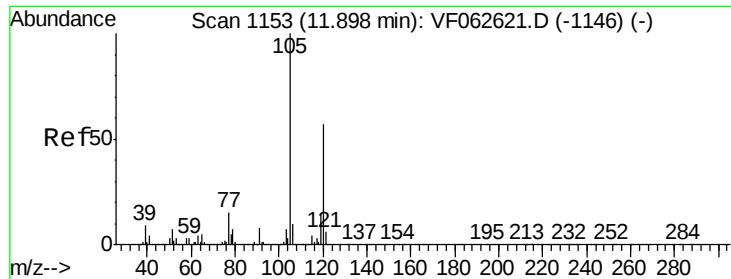
Tgt Ion: 91 Resp: 139

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#

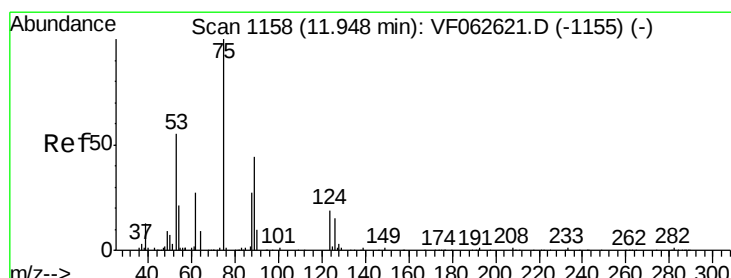
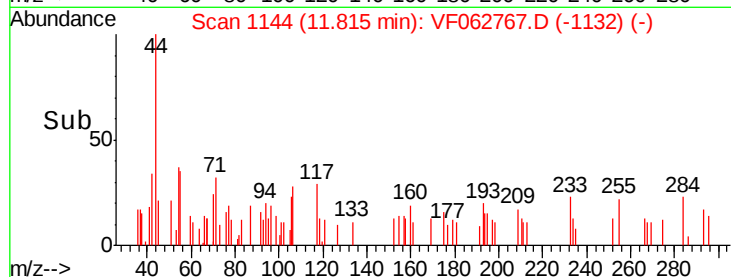
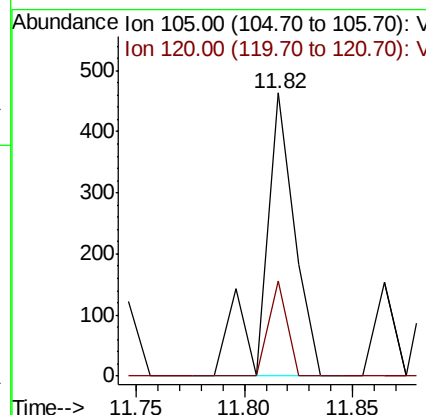
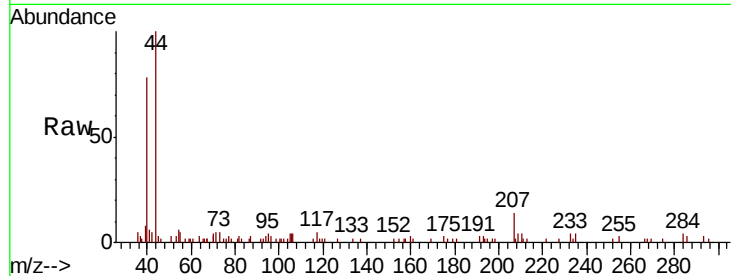




#80
 1,3,5-Trimethylbenzene
 Concen: 3.019 ug/l
 RT: 11.82 min Scan# 1144
 Delta R.T. -0.08 min
 Lab File: VF062767.D
 Acq: 28 May 2019 18:21

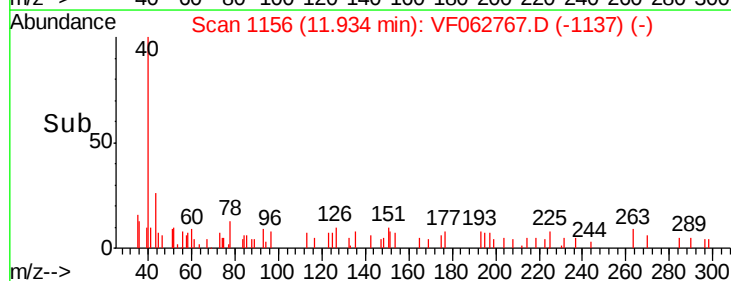
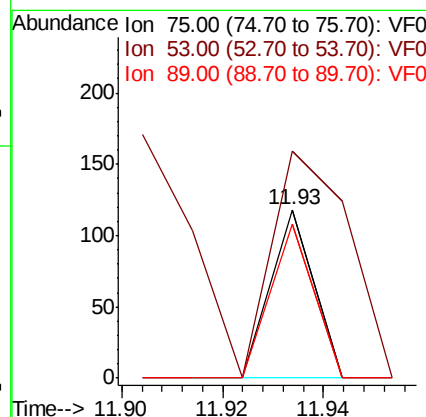
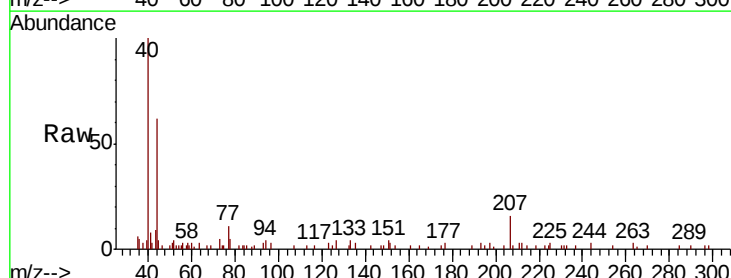
Instrument :
 MSVOA_F
 ClientSampled :
 TP-3

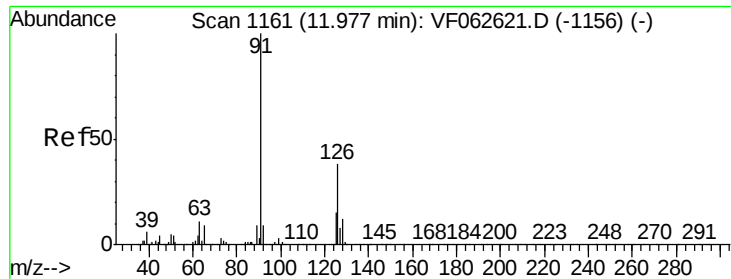
Tot Ion:105 Resp: 467
 Ion Ratio Lower Upper
 105 100
 120 33.5 28.7 86.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 6.078 ug/l
 RT: 11.93 min Scan# 1156
 Delta R.T. -0.01 min
 Lab File: VF062767.D
 Acq: 28 May 2019 18:21

Tgt Ion: 75 Resp: 70
 Ion Ratio Lower Upper
 75 100
 53 134.7 46.9 70.3#
 89 91.5 36.4 54.6#

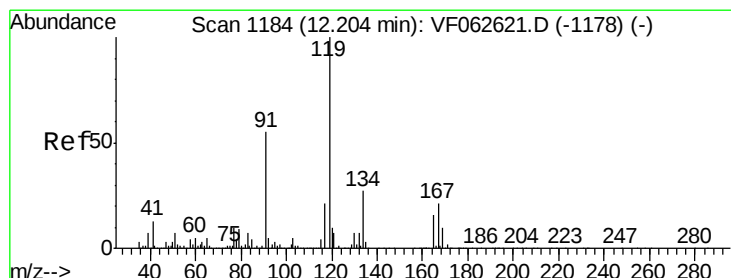
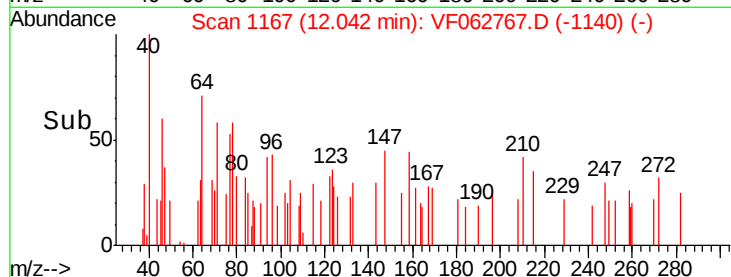
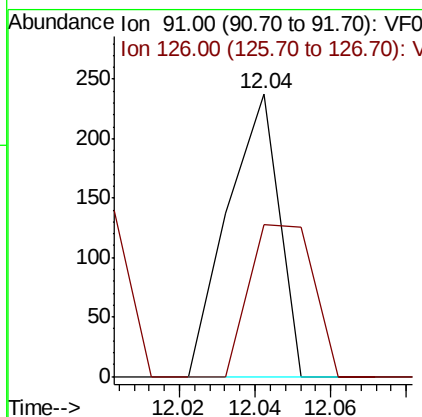
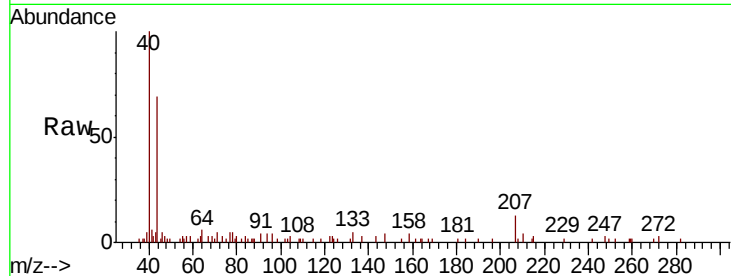




#82
4-Chlorotoluene
Concen: 1.749 ug/l
RT: 12.04 min Scan# 1167
Delta R.T. 0.07 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

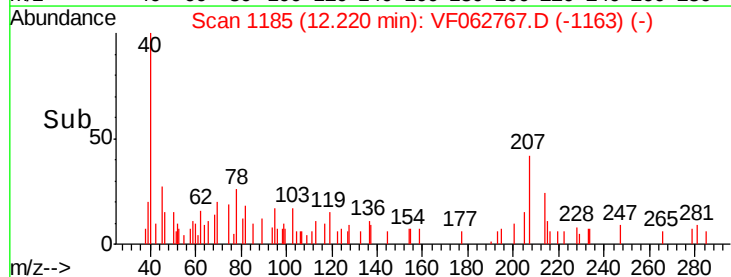
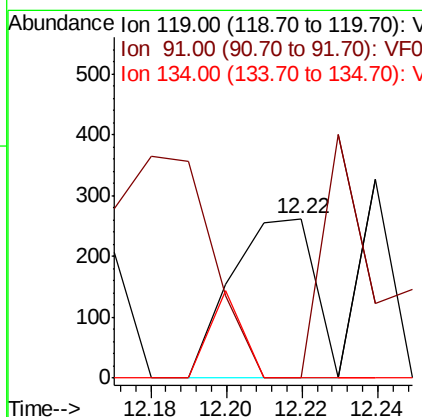
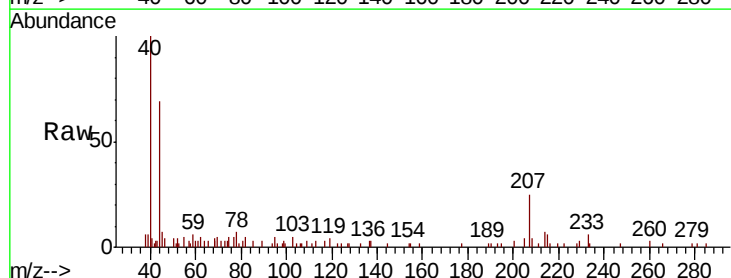
Instrument :
MSVOA_F
ClientSampled :
TP-3

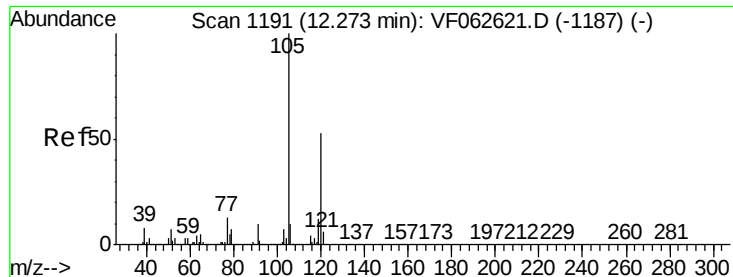
Tot Ion: 91 Resp: 222
Ion Ratio Lower Upper
91 100
126 53.8 19.1 57.1



#83
tert-Butylbenzene
Concen: 2.536 ug/l
RT: 12.22 min Scan# 1185
Delta R.T. 0.02 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Tgt Ion: 119 Resp: 398
Ion Ratio Lower Upper
119 100
91 0.0 27.3 81.9#
134 0.0 13.6 40.7#

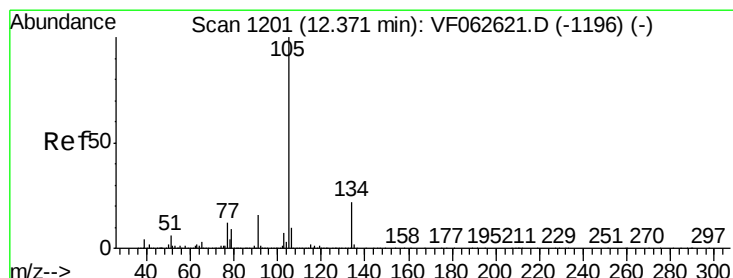
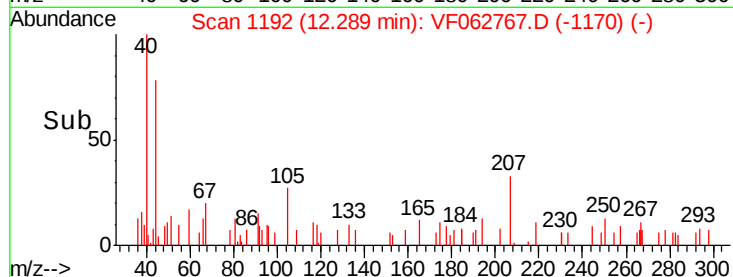
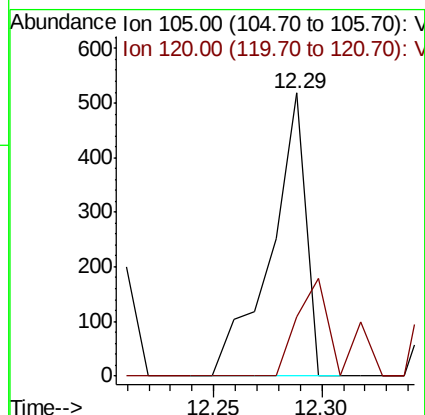
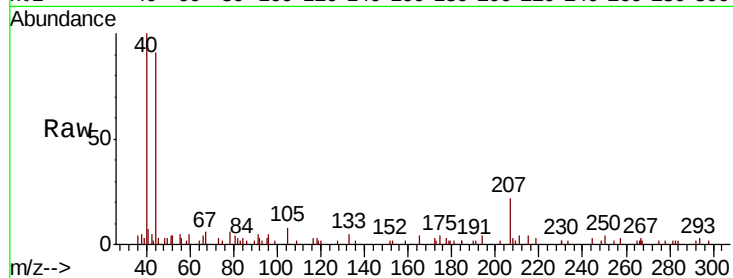




#84
 1,2,4-Trimethylbenzene
 Concen: 3.907 ug/l
 RT: 12.29 min Scan# 1192
 Delta R.T. 0.02 min
 Lab File: VF062767.D
 Acq: 28 May 2019 18:21

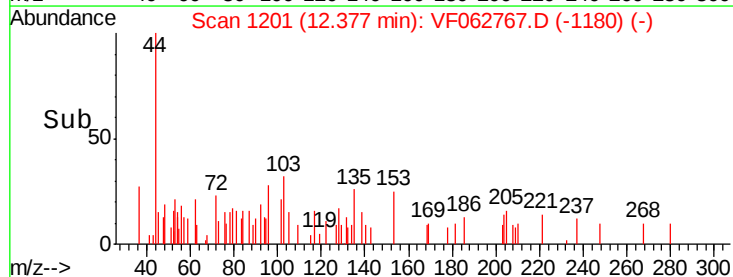
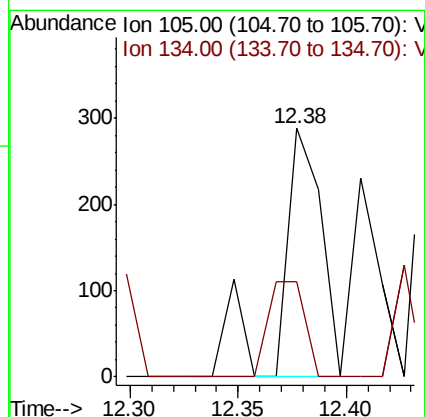
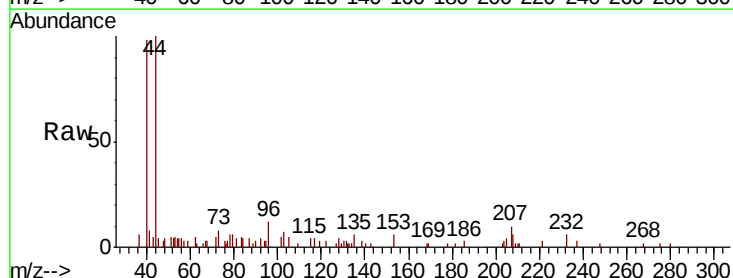
Instrument :
 MSVOA_F
 ClientSampled :
 TP-3

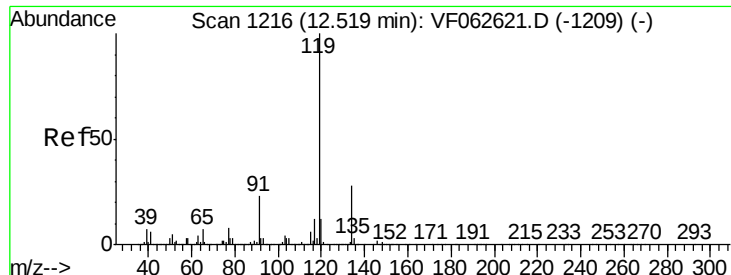
Tot Ion:105 Resp: 585
 Ion Ratio Lower Upper
 105 100
 120 21.0 26.7 80.1#



#85
 sec-Butylbenzene
 Concen: 1.738 ug/l
 RT: 12.38 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF062767.D
 Acq: 28 May 2019 18:21

Tgt Ion:105 Resp: 366
 Ion Ratio Lower Upper
 105 100
 134 38.2 10.8 32.4#

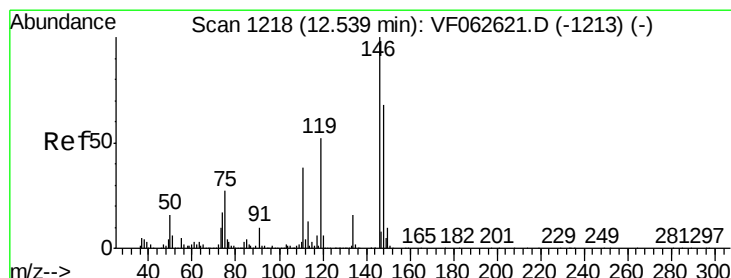
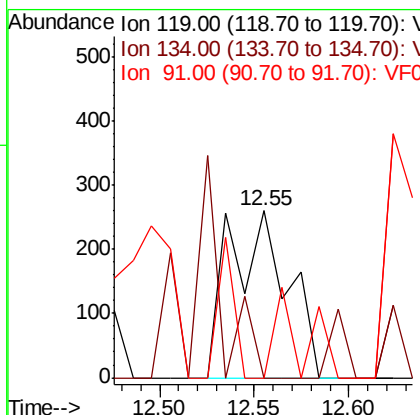
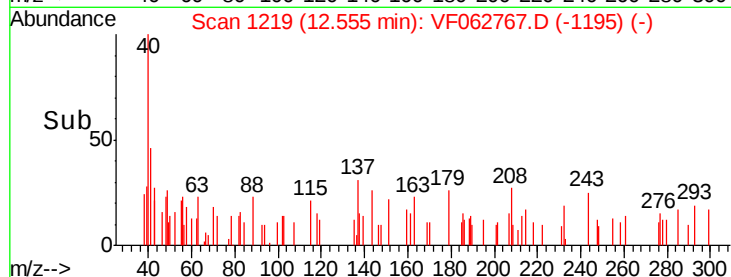
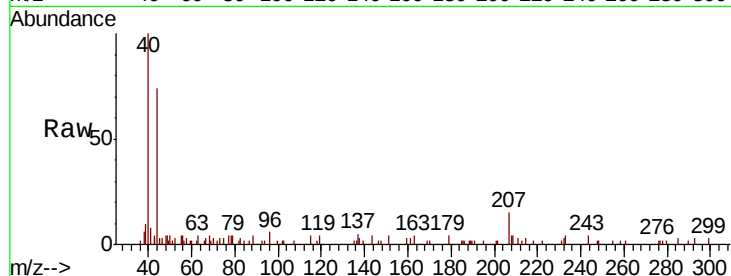




#86
p-Isopropyltoluene
Concen: 3.110 ug/l
RT: 12.55 min Scan# 1219
Delta R.T. 0.04 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

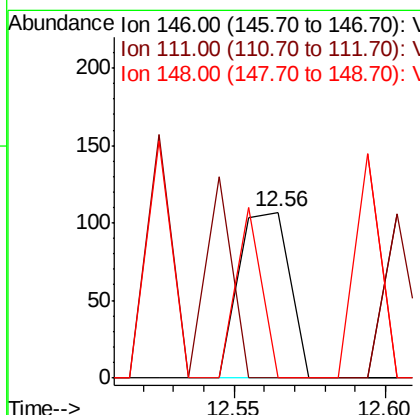
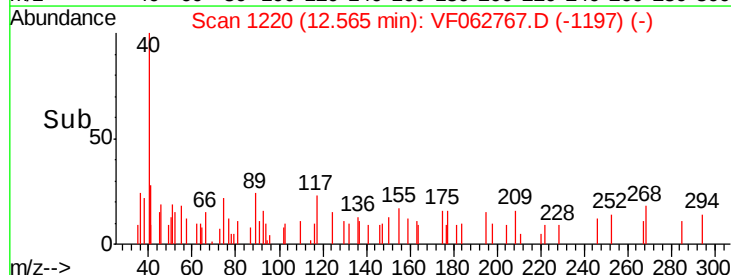
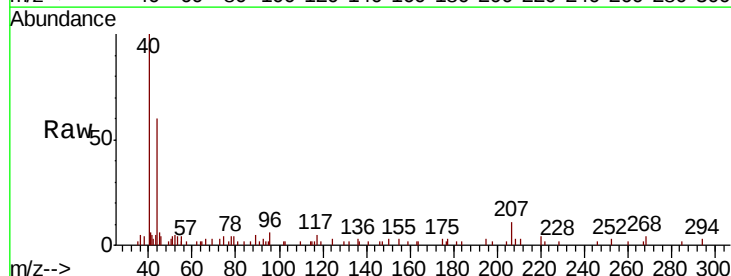
Instrument :
MSVOA_F
ClientSampled :
TP-3

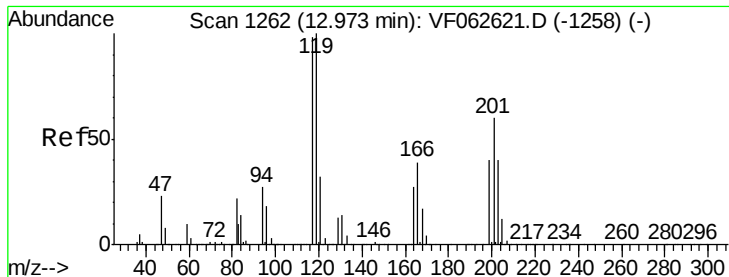
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	14.1	42.3#
91	0.0	11.4	34.2#



#87
1,3-Dichlorobenzene
Concen: 1.429 ug/l
RT: 12.56 min Scan# 1220
Delta R.T. 0.03 min
Lab File: VF062767.D
Acq: 28 May 2019 18:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.9	56.9#
148	0.0	34.0	101.8#





#90

Hexachloroethane

Concen: 1.620 ug/l

RT: 13.00 min Scan# 1264

Delta R.T. 0.03 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

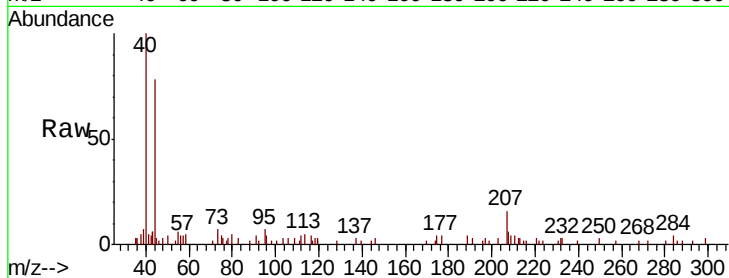
TP-3

Tot Ion:117 Resp: 69

Ion Ratio Lower Upper

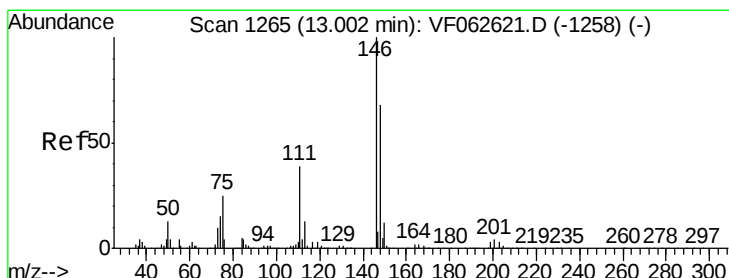
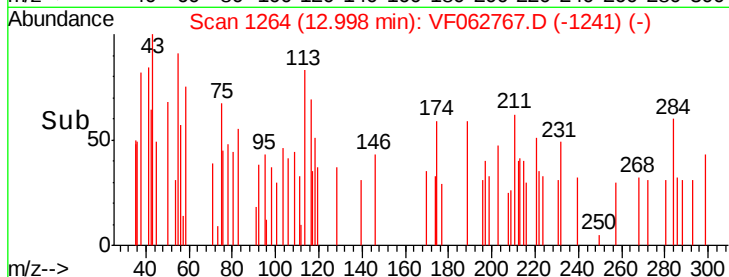
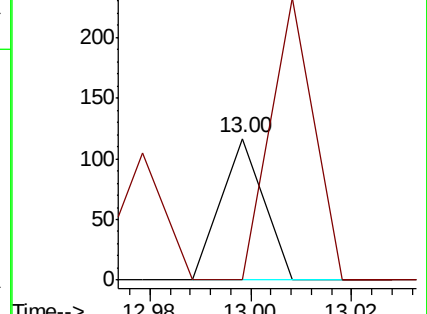
117 100

201 0.0 30.7 92.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#91

1,2-Dichlorobenzene

Concen: 1.086 ug/l

RT: 13.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

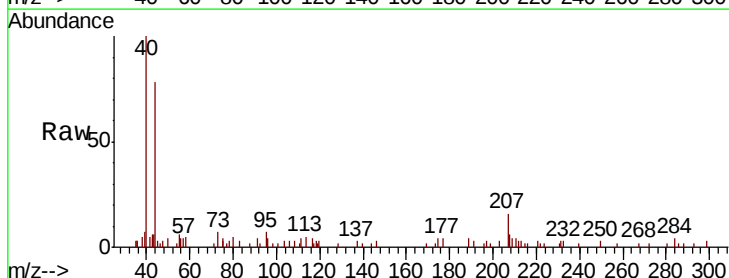
Tgt Ion:146 Resp: 84

Ion Ratio Lower Upper

146 100

111 214.1 19.8 59.3#

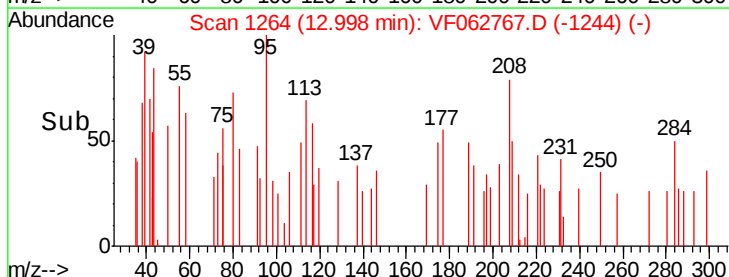
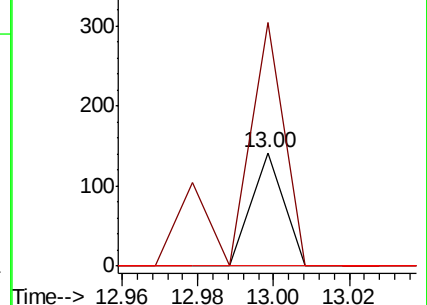
148 0.0 34.1 102.2#

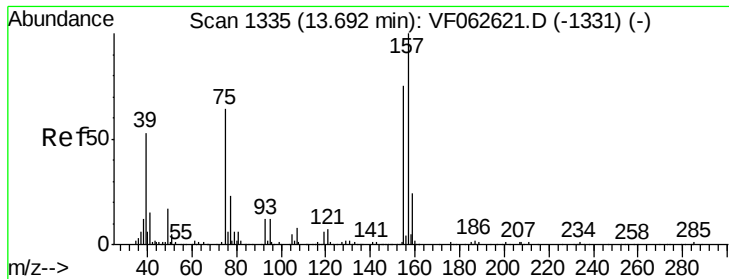


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 67.817 ug/l

RT: 13.73 min Scan# 1338

Delta R.T. 0.04 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampled :

TP-3

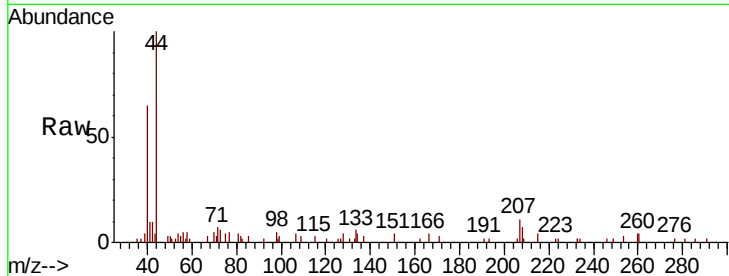
Tot Ion: 75 Resp: 319

Ion Ratio Lower Upper

75 100

155 0.0 58.1 174.3#

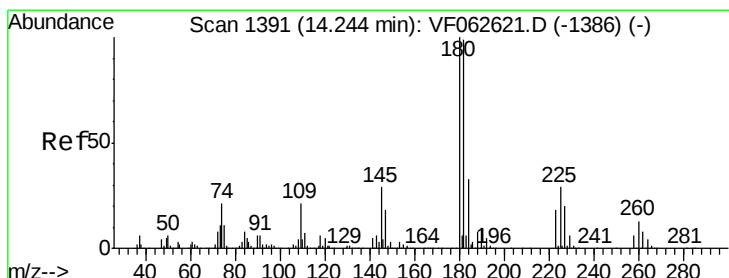
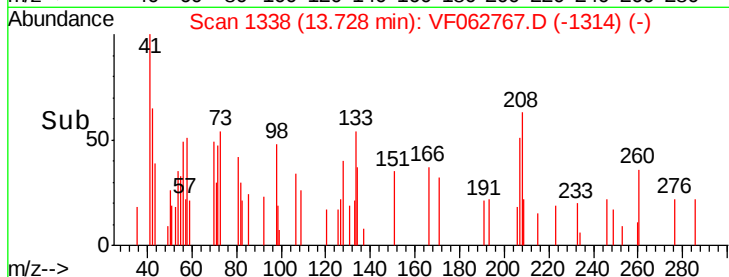
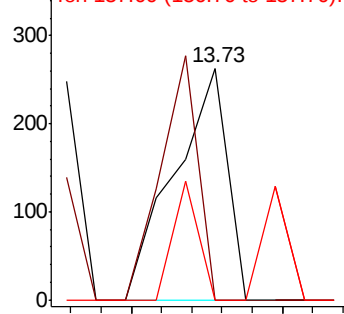
157 0.0 77.8 233.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#93

1,2,4-Trichlorobenzene

Concen: 1.680 ug/l

RT: 14.24 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

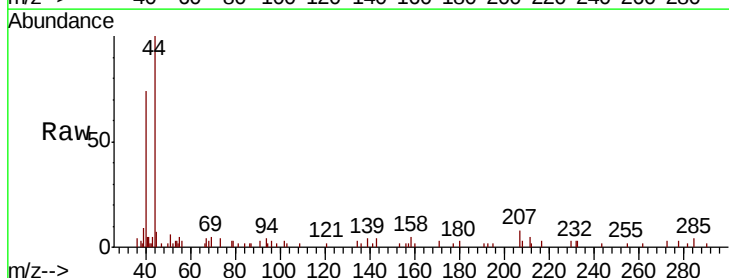
Tgt Ion: 180 Resp: 93

Ion Ratio Lower Upper

180 100

182 0.0 49.7 149.1#

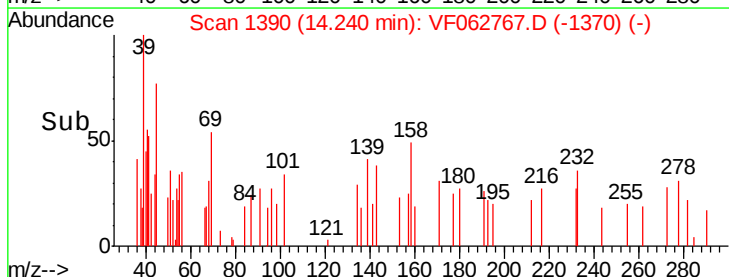
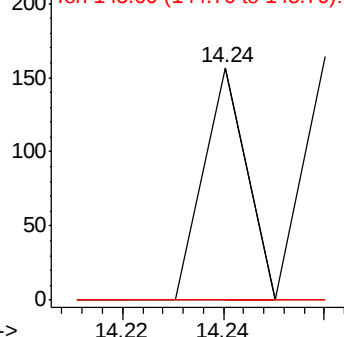
145 0.0 14.6 44.0#

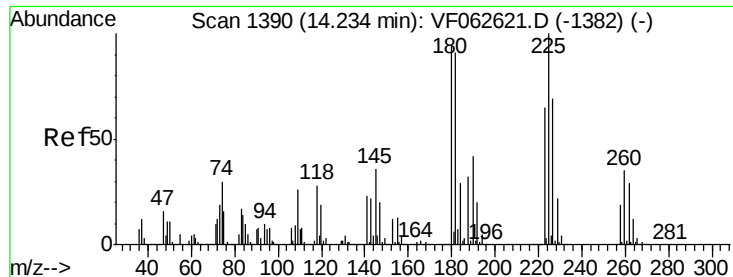


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#94

Hexachlorobutadiene

Concen: 1.889 ug/l

RT: 14.27 min Scan# 1393

Delta R.T. 0.04 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

Instrument :

MSVOA_F

ClientSampleId :

TP-3

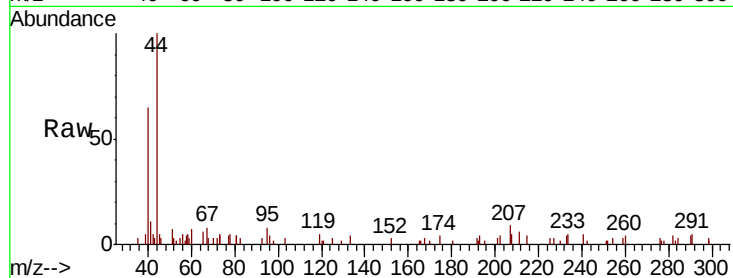
Tot Ion:225 Resp: 73

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.4#

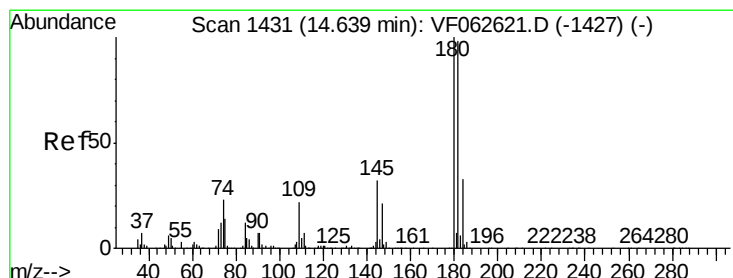
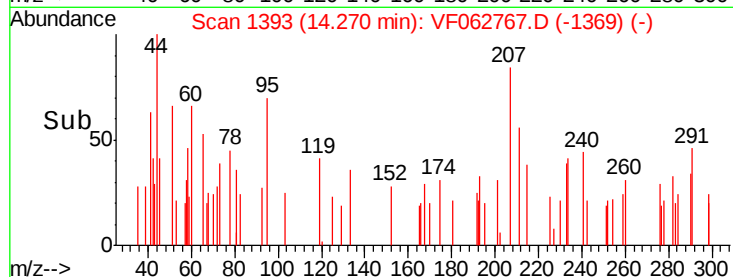
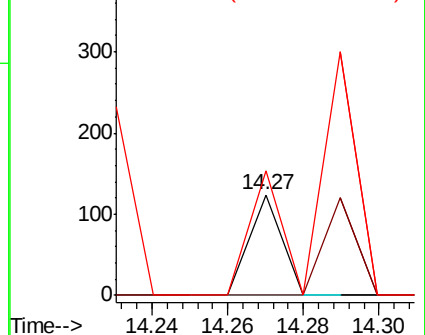
227 123.4 34.5 103.5#



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.316 ug/l

RT: 14.68 min Scan# 1435

Delta R.T. 0.05 min

Lab File: VF062767.D

Acq: 28 May 2019 18:21

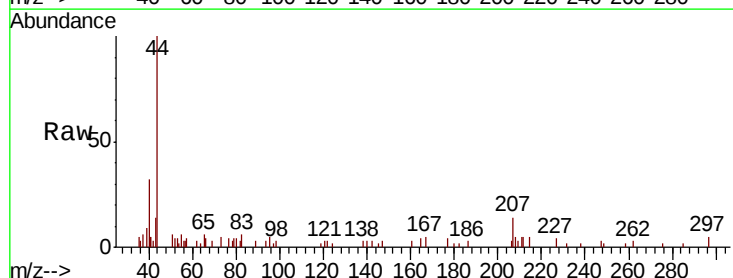
Tgt Ion:180 Resp: 69

Ion Ratio Lower Upper

180 100

182 106.0 48.9 146.7

145 94.8 16.1 48.2#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

