

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062182.D
 Acq On : 16 Apr 2019 18:13
 Operator : FY/SY
 Sample : K2345-10RE
 Misc : 6.15g/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-4RE

Quant Time: Apr 17 08:07:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:56:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.06
34) 1,4-Difluorobenzene	5.59	114	66	50.00	ug/l	-0.19
63) Chlorobenzene-d5	9.57	117	63	50.00	ug/l	-0.34
72) 1,4-Dichlorobenzene-d4	12.67	152	93	50.00	ug/l	0.06

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.96	65	227	0.00	ug/l	-0.07
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	4.03	113	76	145.98	ug/l	-0.28
Spiked Amount	50.000		Recovery	=	291.96%	
50) Toluene-d8	7.44	98	76	49.95	ug/l	-0.27
Spiked Amount	50.000		Recovery	=	99.90%	
62) 4-Bromofluorobenzene	11.11	95	186	309.58	ug/l	-0.39
Spiked Amount	50.000		Recovery	=	619.16%	

Target Compounds

						Qvalue
36) 1,1-Dichloropropene	4.37	75	65	88.640	ug/l #	1
37) Ethyl Acetate	4.16	43	465	1376.178	ug/l #	17
38) Carbon Tetrachloride	4.09	117	67	106.152	ug/l #	11
39) Methylcyclohexane	5.46	83	395	429.840	ug/l #	1
40) Benzene	4.65	78	70	36.138	ug/l #	1
41) Methacrylonitrile	4.76	41	513	2526.775	ug/l #	73
43) Isopropyl Acetate	6.87	43	753	1928.890	ug/l #	46
45) 1,2-Dichloropropane	6.23	63	69	145.203	ug/l #	45
46) Dibromomethane	6.06	93	76	265.225	ug/l #	1
47) Bromodichloromethane	6.29	83	546	841.061	ug/l #	75
48) Methyl methacrylate	6.64	41	580	2269.103	ug/l #	68
49) 1,4-Dioxane	6.90	88	63	31629.250	ug/l #	1
51) 4-Methyl-2-Pentanone	8.13	43	739	2456.536	ug/l #	38
52) Toluene	7.57	92	63	55.364	ug/l	78
53) t-1,3-Dichloropropene	8.15	75	78	138.715	ug/l #	1
54) cis-1,3-Dichloropropene	7.23	75	75	104.892	ug/l #	1
55) 1,1,2-Trichloroethane	8.33	97	340	1043.236	ug/l #	50
56) Ethyl methacrylate	8.49	69	273	704.447	ug/l #	1
57) 1,3-Dichloropropane	8.73	76	160	298.620	ug/l #	25
58) 2-Chloroethyl Vinyl ether	7.22	63	140	1402.108	ug/l #	50
59) 2-Hexanone	9.23	43	2691	14075.056	ug/l #	55
60) Dibromochloromethane	8.61	129	88	196.247	ug/l #	12
61) 1,2-Dibromoethane	8.85	107	73	209.361	ug/l #	2
66) 1,1,1,2-Tetrachloroethane	10.09	131	63	116.439	ug/l #	30
67) Ethyl Benzene	10.04	91	412	169.592	ug/l #	44
68) m/p-Xylenes	10.23	106	89	99.520	ug/l #	67
69) o-Xylene	10.67	106	72	74.362	ug/l	80
70) Styrene	10.88	104	92	65.336	ug/l #	32
73) Isopropylbenzene	11.22	105	118	14.728	ug/l #	49
74) N-amyl acetate	11.44	43	479	281.292	ug/l #	59
75) 1,1,2,2-Tetrachloroethane	11.78	83	71	49.747	ug/l #	13
76) 1,2,3-Trichloropropane	11.86	75	73	75.420	ug/l #	1
78) n-propylbenzene	11.70	91	233	25.585	ug/l #	52
79) 2-Chlorotoluene	11.78	91	339	63.150	ug/l #	43

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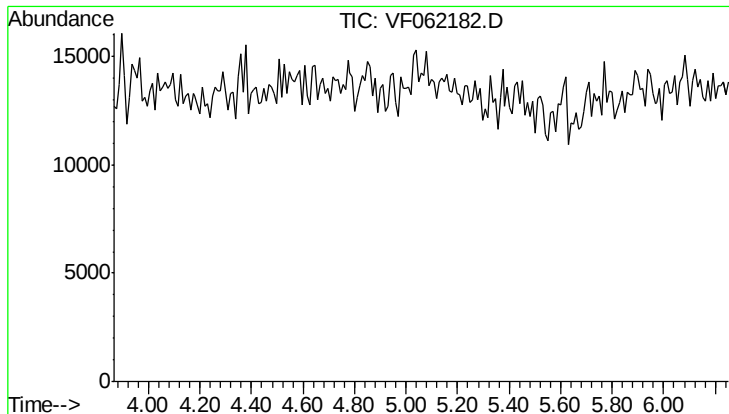
Instrument :
 MSVOA_F
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

80) 1,3,5-Trimethylbenzene	11.91	105	345	51.630	ug/l #	26
81) trans-1,4-Dichloro-2-buten	11.93	75	61	126.011	ug/l #	47
82) 4-Chlorotoluene	11.95	91	254	48.283	ug/l #	43
83) tert-Butylbenzene	12.21	119	73	11.002	ug/l #	9
84) 1,2,4-Trimethylbenzene	12.35	105	344	53.046	ug/l	70
85) sec-Butylbenzene	12.35	105	344	39.427	ug/l #	59
86) p-Isopropyltoluene	12.52	119	75	10.090	ug/l #	1
87) 1,3-Dichlorobenzene	12.64	146	134	43.956	ug/l #	23
88) 1,4-Dichlorobenzene	12.64	146	134	45.084	ug/l #	23
89) n-Butylbenzene	12.88	91	512	82.435	ug/l #	26
90) Hexachloroethane	12.96	117	59	32.404	ug/l #	13
91) 1,2-Dichlorobenzene	12.86	146	67	22.901	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.67	75	66	256.756	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.24	180	59	26.852	ug/l #	11
94) Hexachlorobutadiene	14.23	225	63	43.996	ug/l #	19
95) Naphthalene	14.48	128	215	56.008	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.54	180	63	30.775	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.06 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Tot Ion: 168

Sig Exp Ratio

168 100

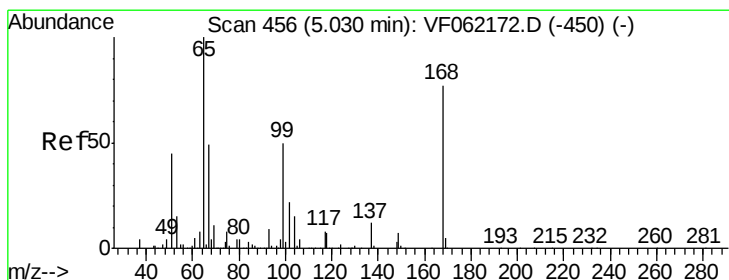
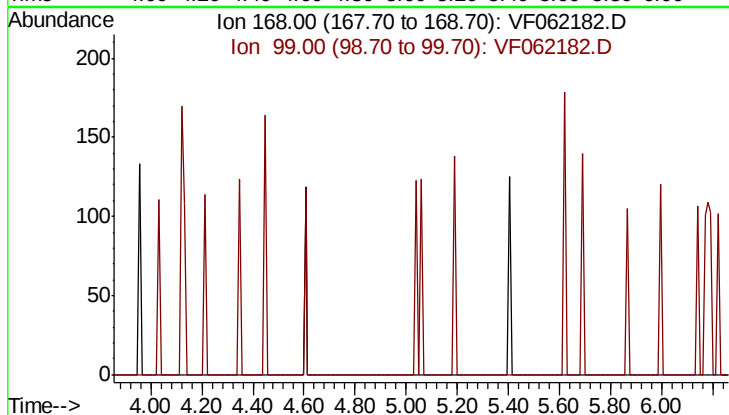
99 55.3

Instrument :

MSVOA_F

ClientSampleId :

TP-4RE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.96 min Scan# 449

Delta R.T. -0.07 min

Lab File: VF062182.D

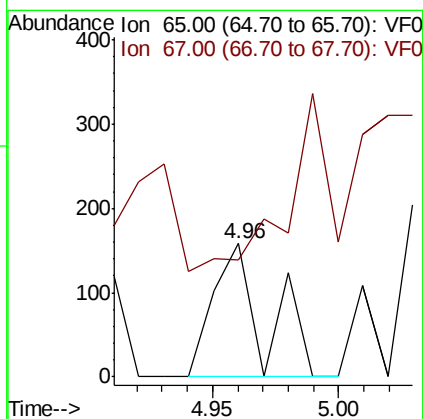
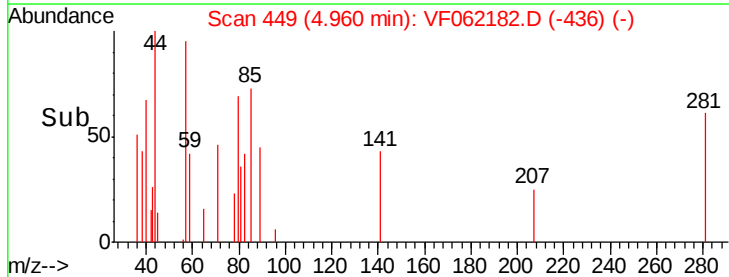
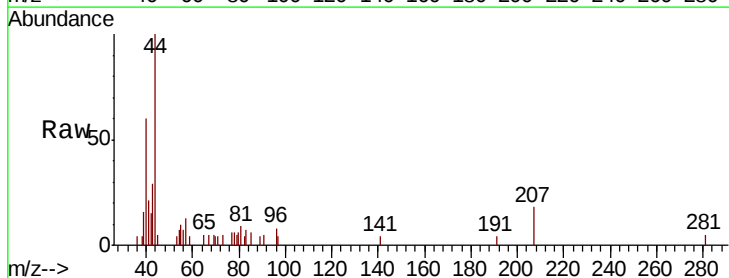
Acq: 16 Apr 2019 18:13

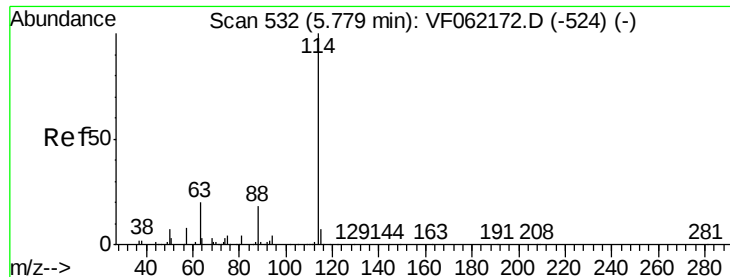
Tgt Ion: 65 Resp: 227

Ion Ratio Lower Upper

65 100

67 88.0 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 513

Delta R.T. -0.19 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampleId :

TP-4RE

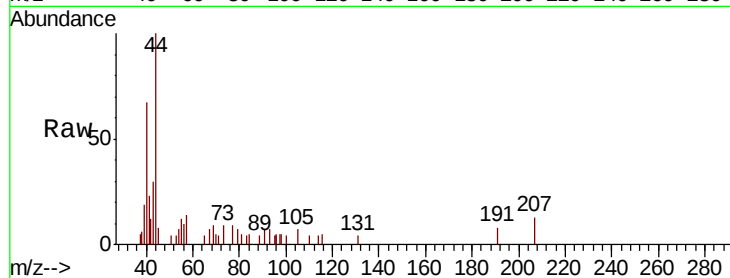
Tot Ion:114 Resp: 66

Ion Ratio Lower Upper

114 100

63 0.0 0.0 40.0

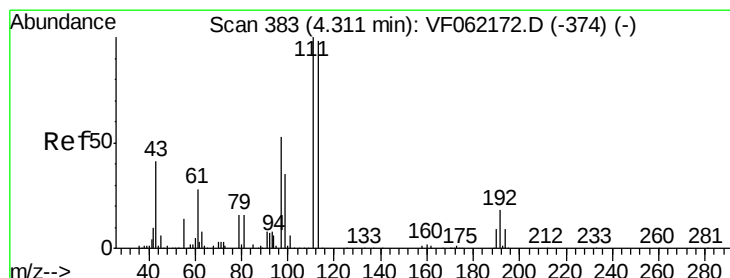
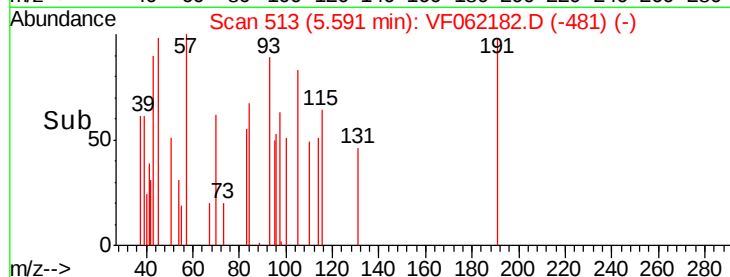
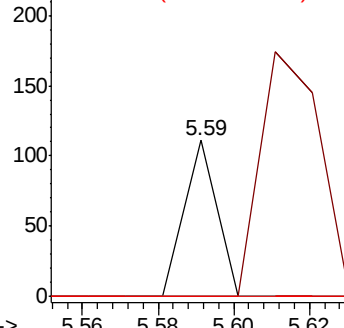
88 0.0 0.0 36.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 145.978 ug/l

RT: 4.03 min Scan# 355

Delta R.T. -0.28 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

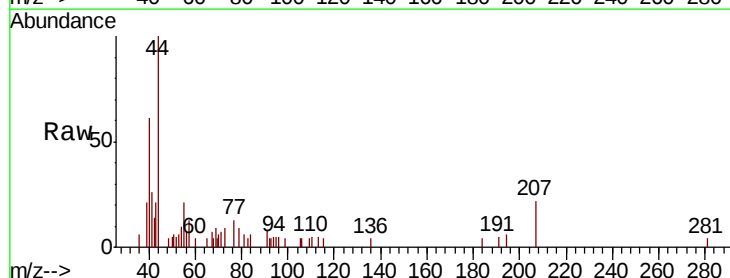
Tgt Ion:113 Resp: 76

Ion Ratio Lower Upper

113 100

111 0.0 81.6 122.4#

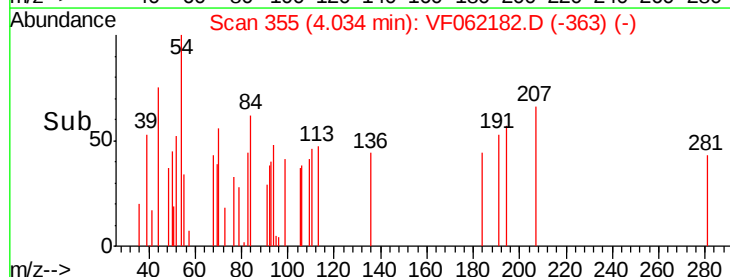
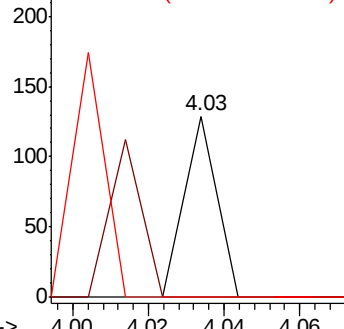
192 0.0 15.0 22.4#

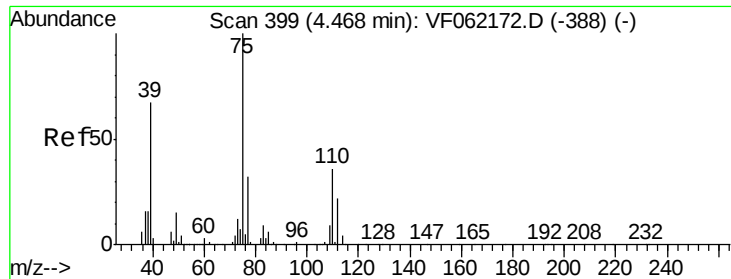


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 88.640 ug/l

RT: 4.37 min Scan# 389

Delta R.T. -0.10 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

TP-4RE

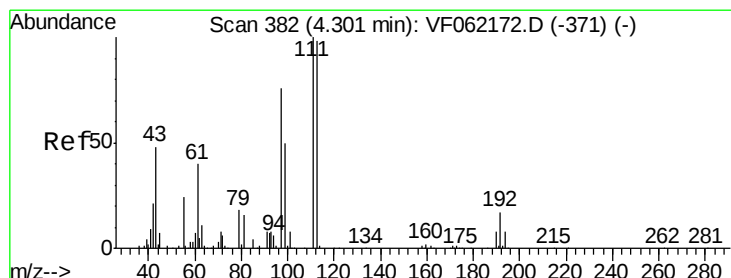
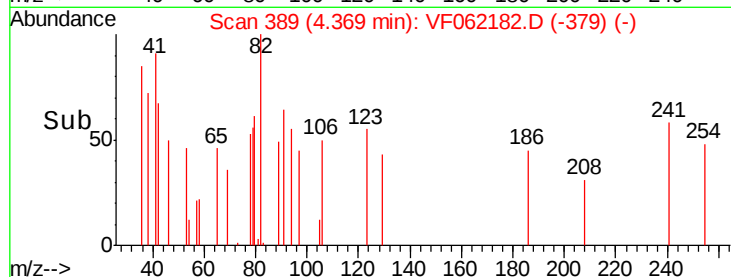
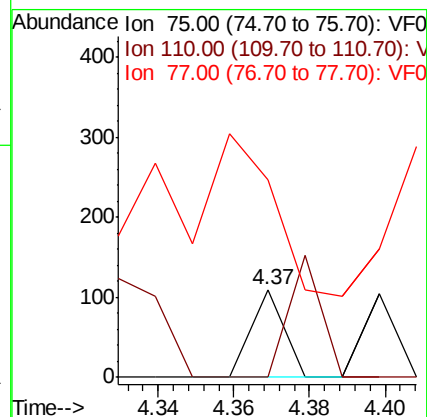
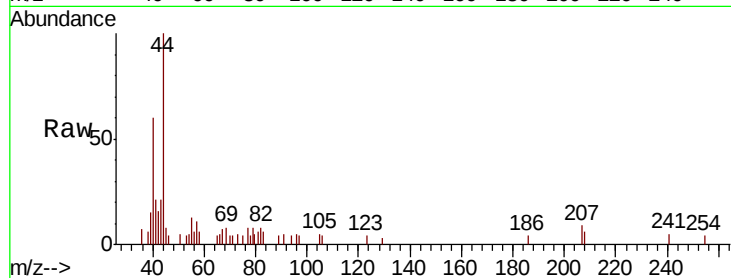
Tot Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

110 0.0 17.9 53.8#

77 224.5 25.6 38.4#



#37

Ethyl Acetate

Concen: 1376.178 ug/l

RT: 4.16 min Scan# 368

Delta R.T. -0.14 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

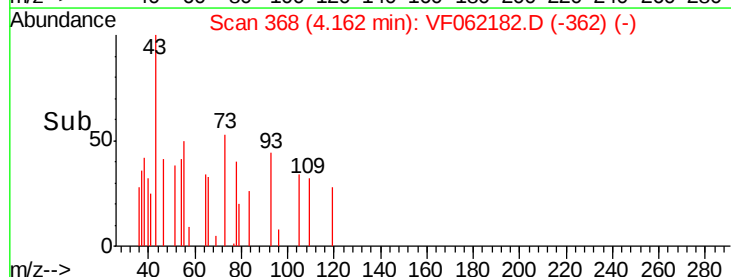
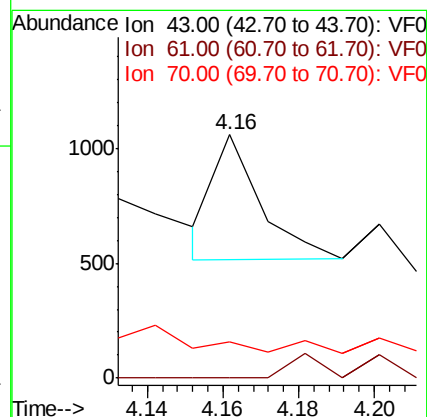
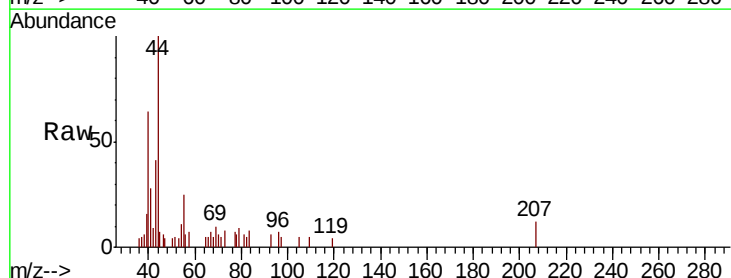
Tgt Ion: 43 Resp: 465

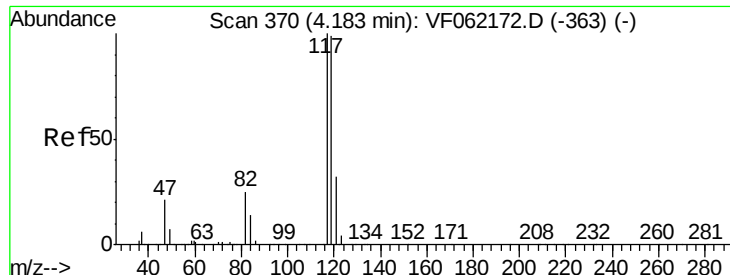
Ion Ratio Lower Upper

43 100

61 0.0 64.9 97.3#

70 14.7 7.8 11.8#





#38

Carbon Tetrachloride

Concen: 106.152 ug/l

RT: 4.09 min Scan# 361

Delta R.T. -0.09 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

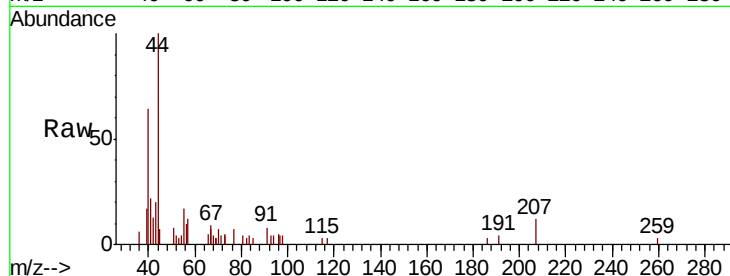
Instrument :

MSVOA_F

ClientSampleId :

TP-4RE

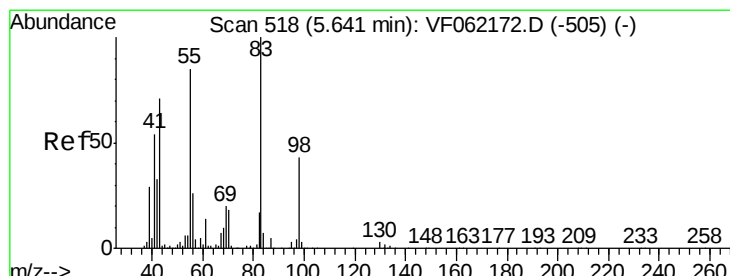
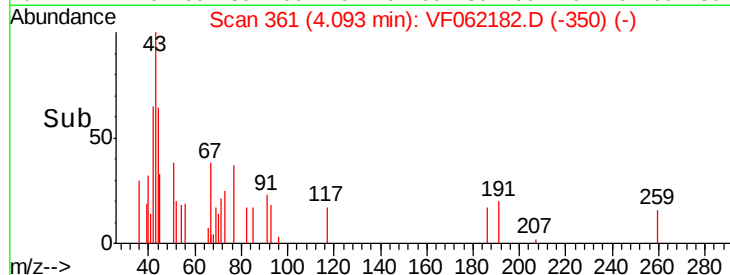
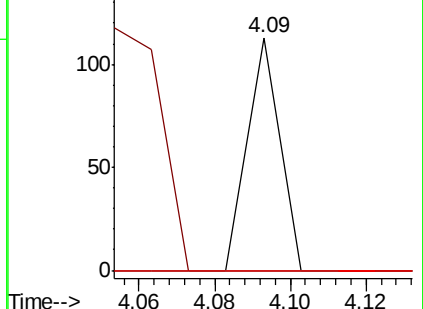
Tot Ion:117	Resp:	67
Ion Ratio	Lower	Upper
117	100	
119	0.0	78.9
121	0.0	25.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#39

Methylcyclohexane

Concen: 429.840 ug/l

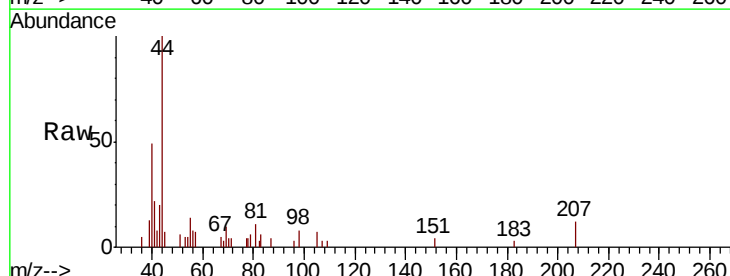
RT: 5.46 min Scan# 500

Delta R.T. -0.18 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

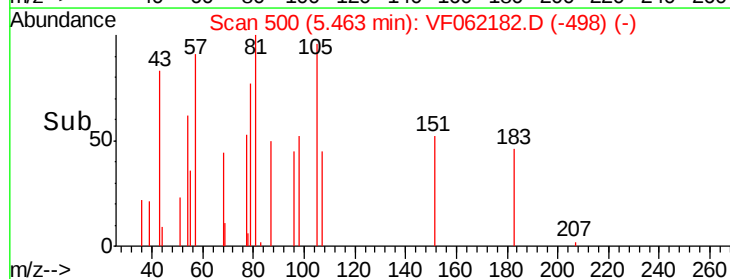
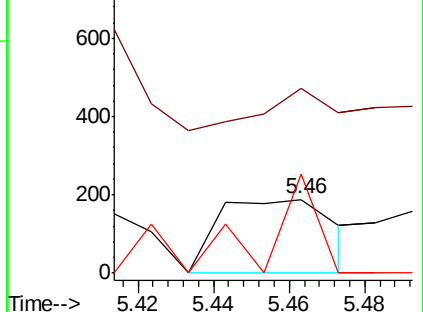
Tgt Ion: 83	Resp:	395
Ion Ratio	Lower	Upper
83	100	
55	251.6	68.2
98	134.0	34.4

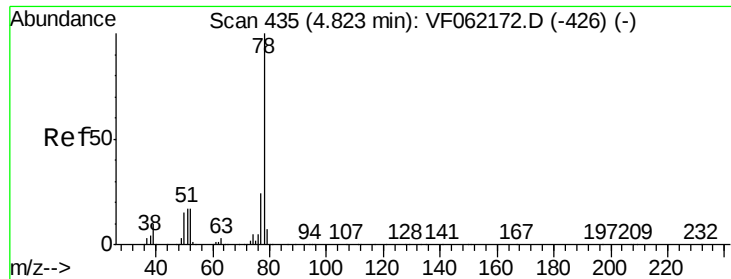


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 36.138 ug/l

RT: 4.65 min Scan# 418

Delta R.T. -0.17 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampleId :

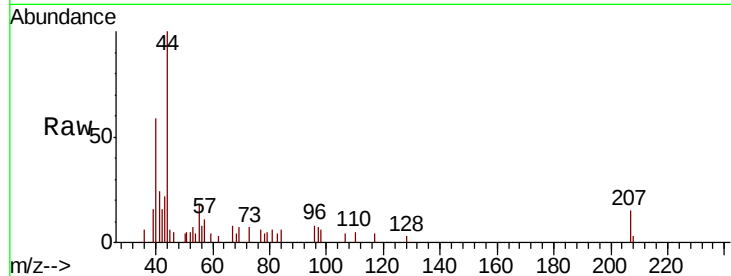
TP-4RE

Tot Ion: 78 Resp: 70

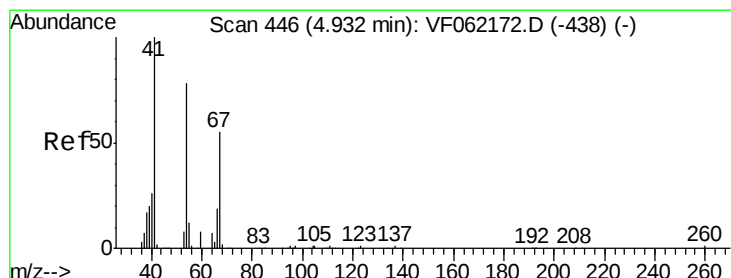
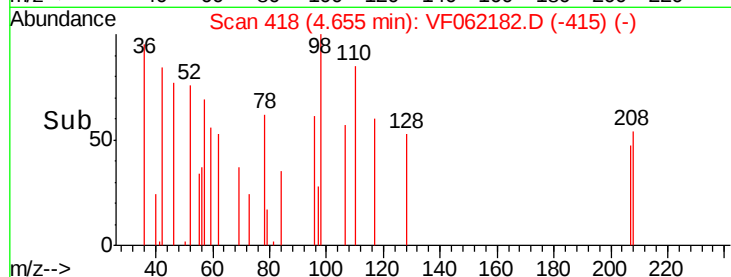
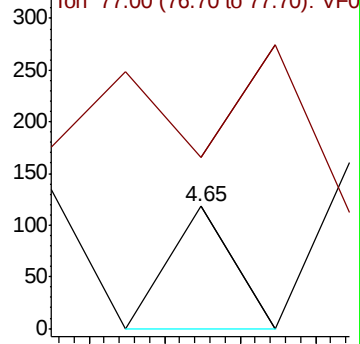
Ion Ratio Lower Upper

78 100

77 139.8 19.1 28.7#



Abundance Ion 78.10 (77.80 to 78.80): VF0



#41

Methacrylonitrile

Concen: 2526.775 ug/l

RT: 4.76 min Scan# 429

Delta R.T. -0.17 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Tgt Ion: 41 Resp: 513

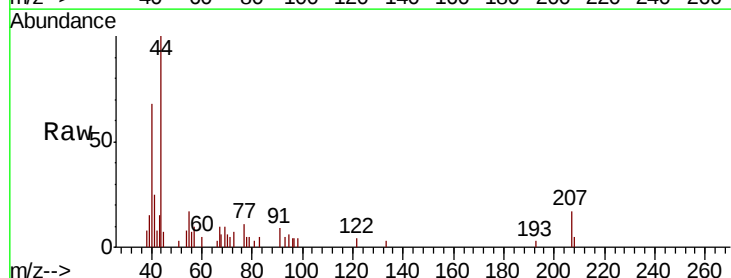
Ion Ratio Lower Upper

41 100

39 59.8 43.5 65.3

67 39.3 42.9 64.3#

52 0.0 30.4 45.6#

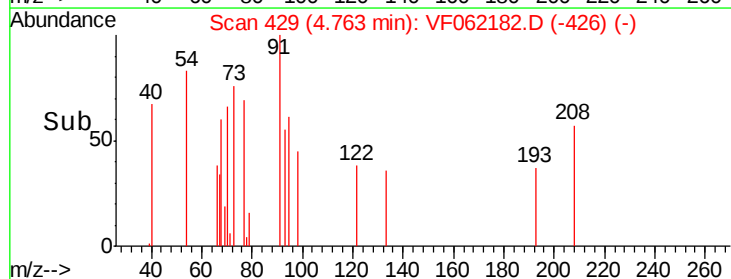
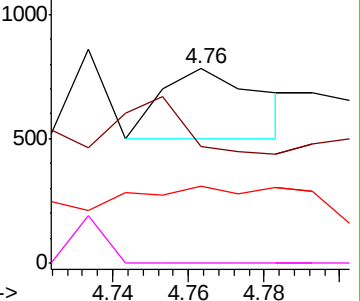


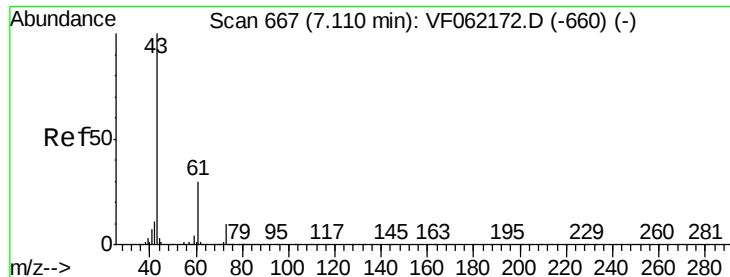
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



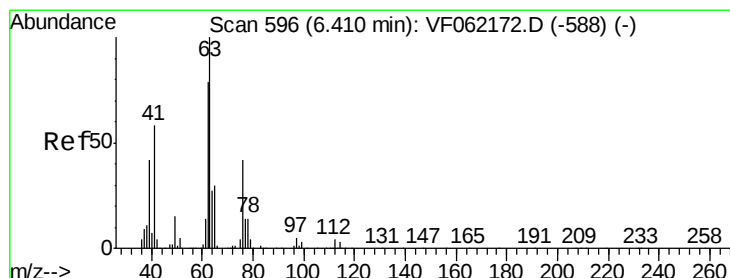
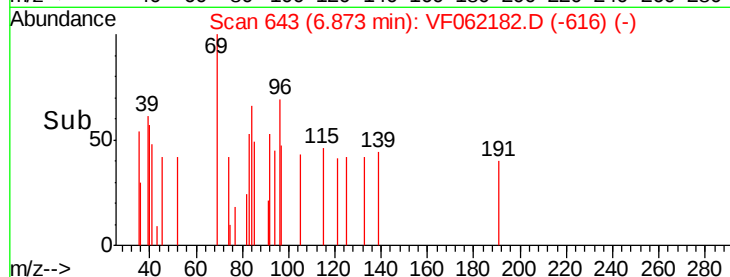
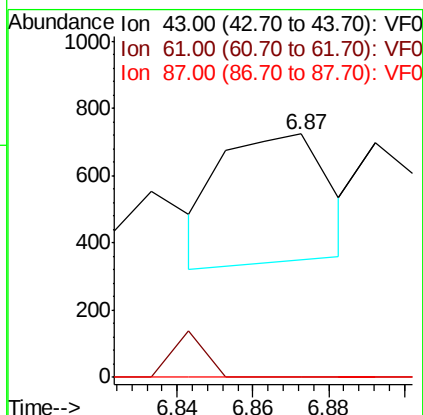
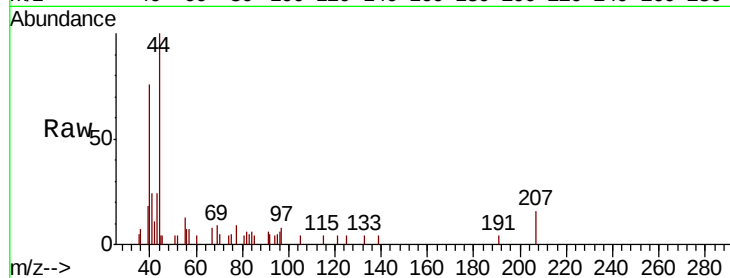


#43

Isopropyl Acetate
 Concen: 1928.890 ug/l
 RT: 6.87 min Scan# 643
 Delta R.T. -0.24 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

Instrument :
 MSVOA_F
 ClientSampleID :
 TP-4RE

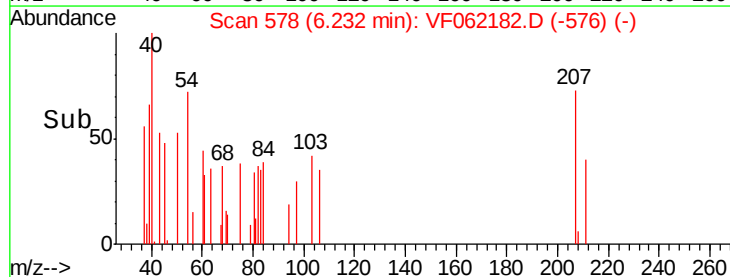
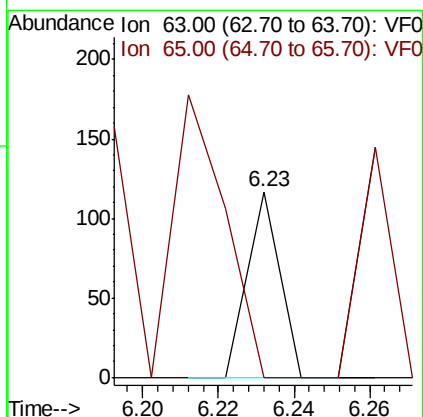
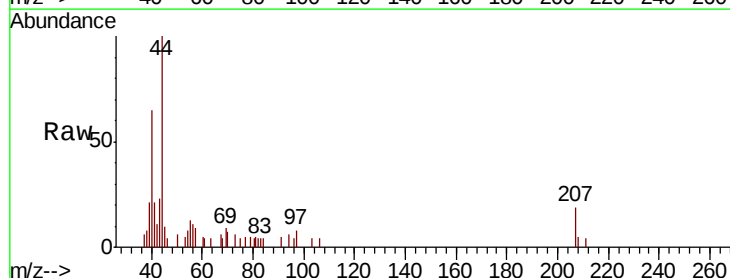
Tot Ion: 43 Resp: 753
 Ion Ratio Lower Upper
 43 100
 61 0.0 23.7 35.5#
 87 0.0 0.3 0.5#

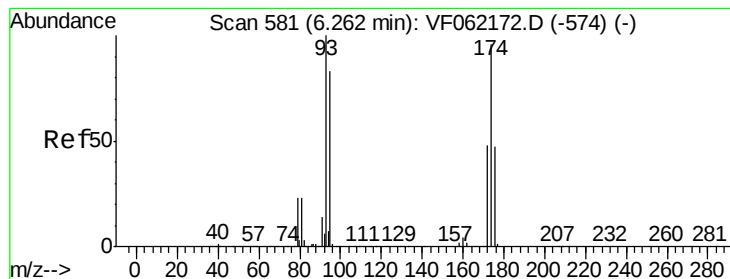


#45

1,2-Dichloropropane
 Concen: 145.203 ug/l
 RT: 6.23 min Scan# 578
 Delta R.T. -0.18 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

Tgt Ion: 63 Resp: 69
 Ion Ratio Lower Upper
 63 100
 65 0.0 23.7 35.5#





#46

Dibromomethane

Concen: 265.225 ug/l

RT: 6.06 min Scan# 561

Delta R.T. -0.20 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

TP-4RE

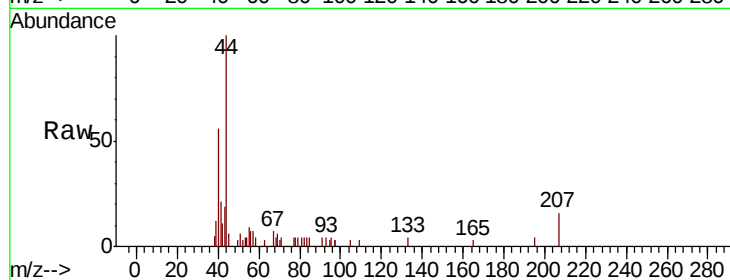
Tot Ion: 93 Resp: 76

Ion Ratio Lower Upper

93 100

95 195.3 67.0 100.6#

174 0.0 76.3 114.5#

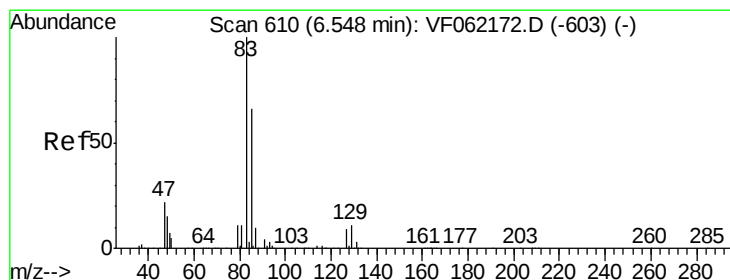
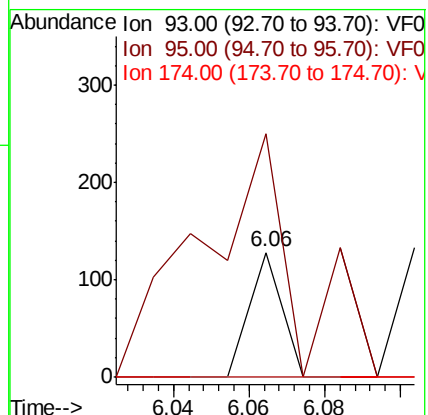
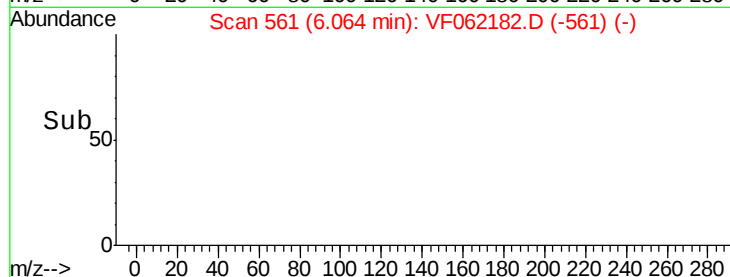


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Time-->



#47

Bromodichloromethane

Concen: 841.061 ug/l

RT: 6.29 min Scan# 584

Delta R.T. -0.26 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

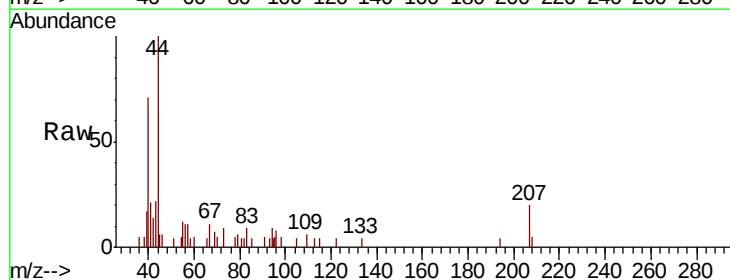
Tgt Ion: 83 Resp: 546

Ion Ratio Lower Upper

83 100

85 45.8 52.6 79.0#

127 0.0 6.8 10.2#

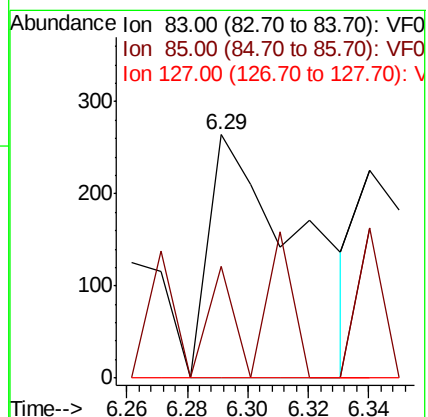
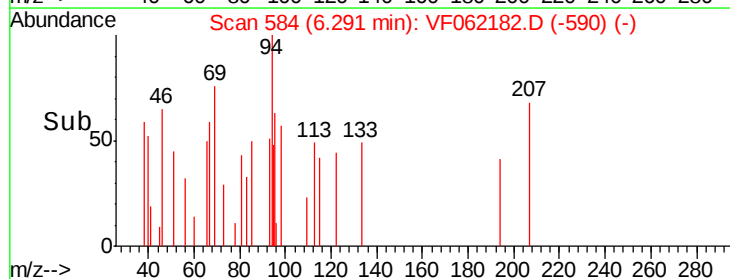


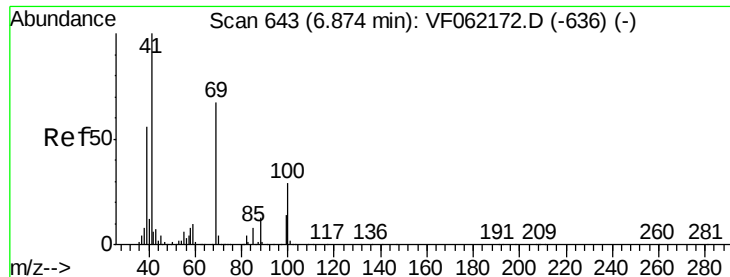
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

Time-->

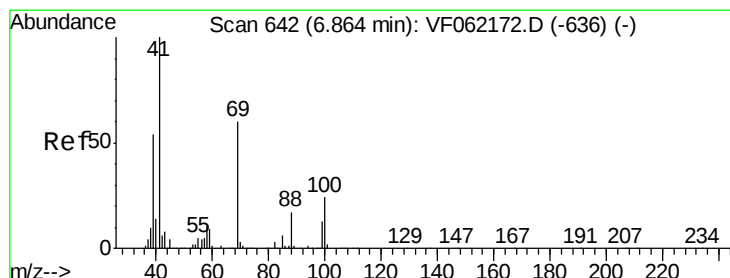
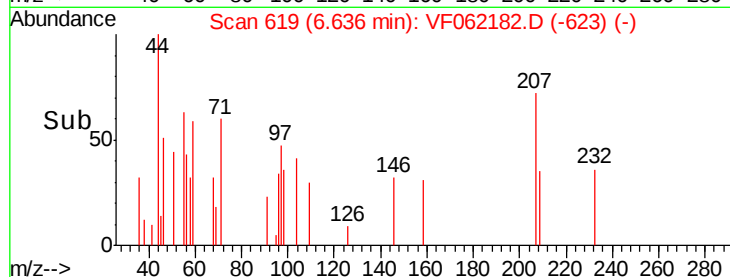
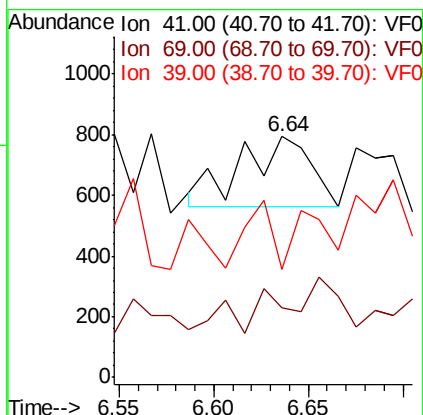
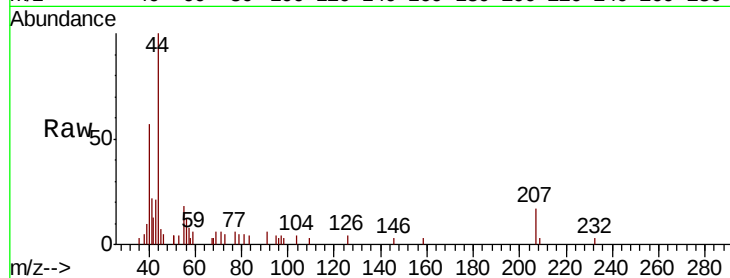




#48
Methyl methacrylate
Concen: 2269.103 ug/l
RT: 6.64 min Scan# 619
Delta R.T. -0.24 min
Lab File: VF062182.D
Acq: 16 Apr 2019 18:13

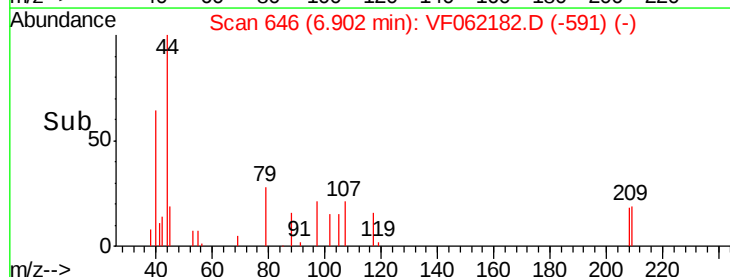
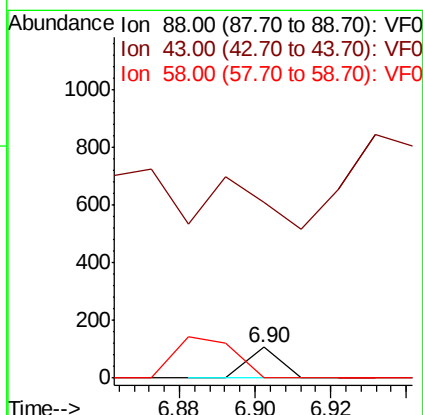
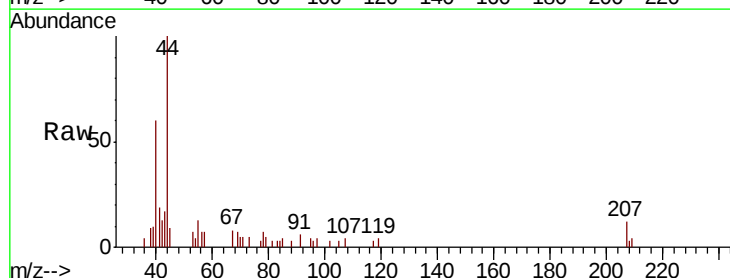
Instrument :
MSVOA_F
ClientSampled :
TP-4RE

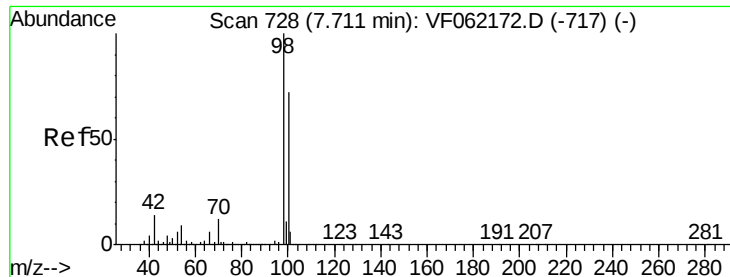
Tot Ion: 41 Resp: 580
Ion Ratio Lower Upper
41 100
69 28.8 52.8 79.2#
39 45.1 45.0 67.4



#49
1,4-Dioxane
Concen: 31629.250 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.04 min
Lab File: VF062182.D
Acq: 16 Apr 2019 18:13

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 569.2 49.5 74.3#
58 0.0 52.6 79.0#





#50

Toluene-d8

Concen: 49.954 ug/l

RT: 7.44 min Scan# 701

Delta R.T. -0.27 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

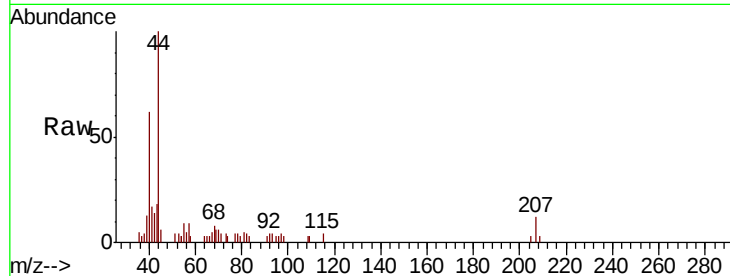
TP-4RE

Tot Ion: 98 Resp: 76

Ion Ratio Lower Upper

98 100

100 0.0 57.4 86.0#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.44

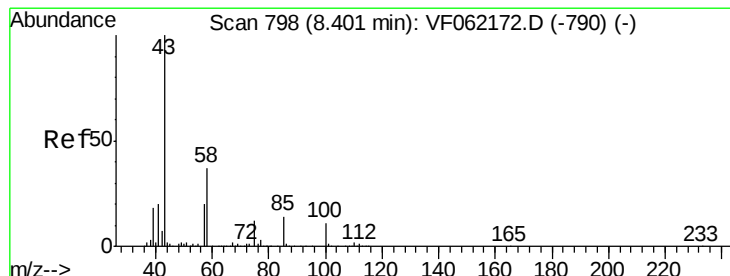
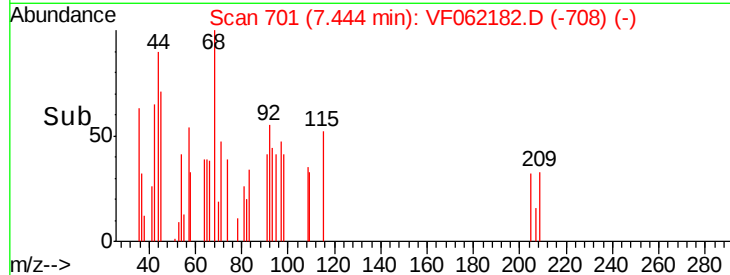
100

50

0

7.42 7.44 7.46

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2456.536 ug/l

RT: 8.13 min Scan# 771

Delta R.T. -0.27 min

Lab File: VF062182.D

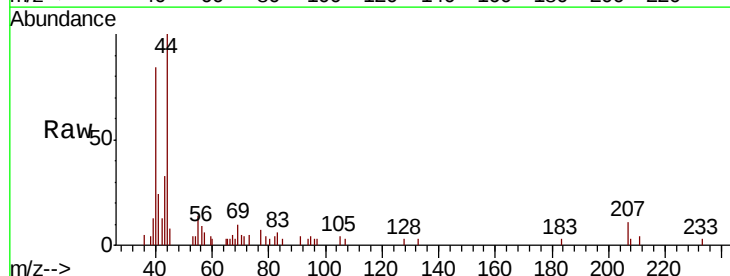
Acq: 16 Apr 2019 18:13

Tgt Ion: 43 Resp: 739

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.13

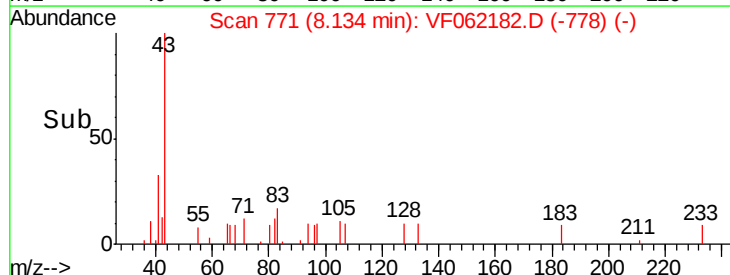
1000

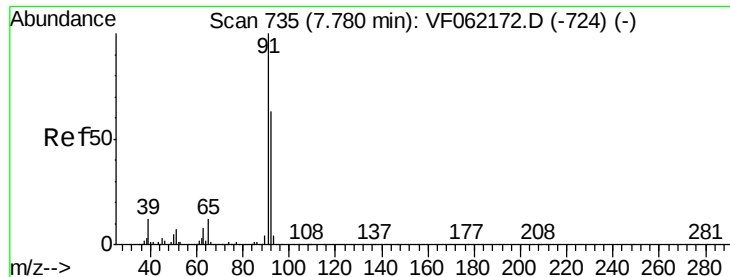
500

0

8.10 8.12 8.14

Time-->





#52

Toluene

Concen: 55.364 ug/l

RT: 7.57 min Scan# 714

Delta R.T. -0.21 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

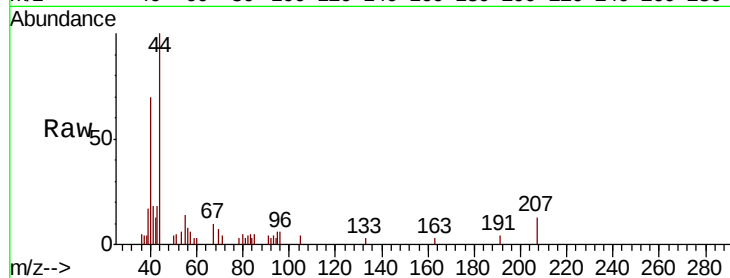
TP-4RE

Tot Ion: 92 Resp: 63

Ion Ratio Lower Upper

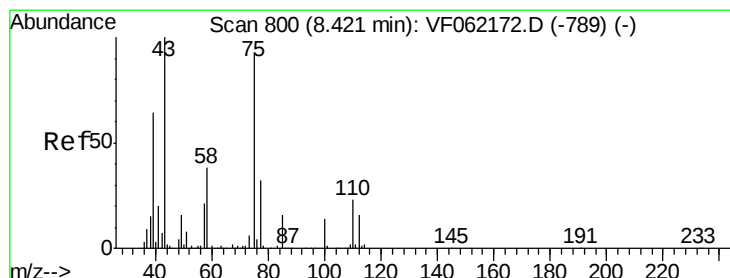
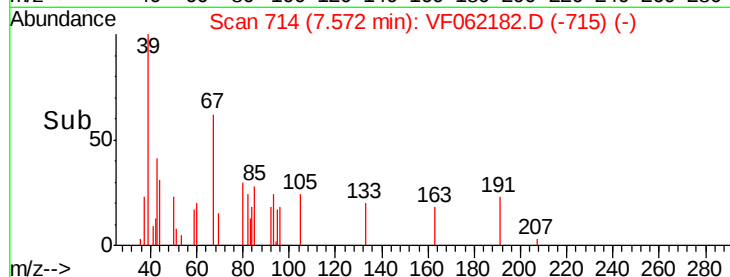
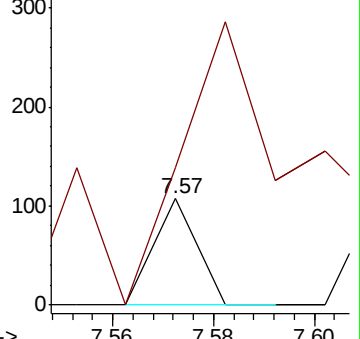
92 100

91 129.9 126.9 190.3



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#53

t-1,3-Dichloropropene

Concen: 138.715 ug/l

RT: 8.15 min Scan# 773

Delta R.T. -0.27 min

Lab File: VF062182.D

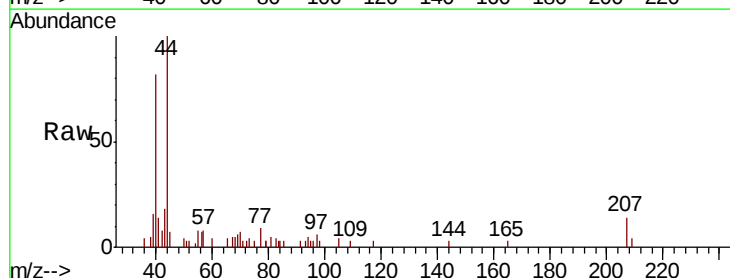
Acq: 16 Apr 2019 18:13

Tgt Ion: 75 Resp: 78

Ion Ratio Lower Upper

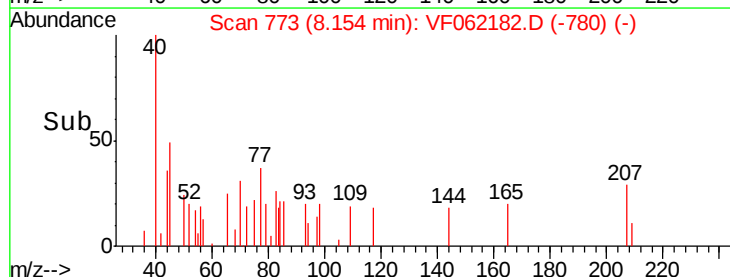
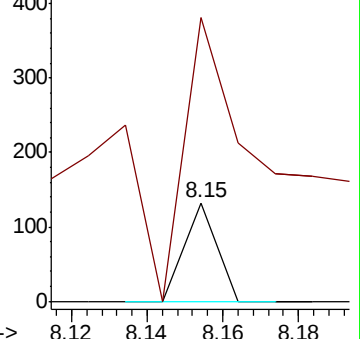
75 100

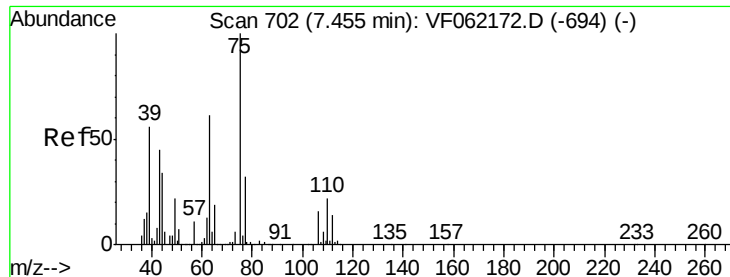
77 288.6 27.8 41.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



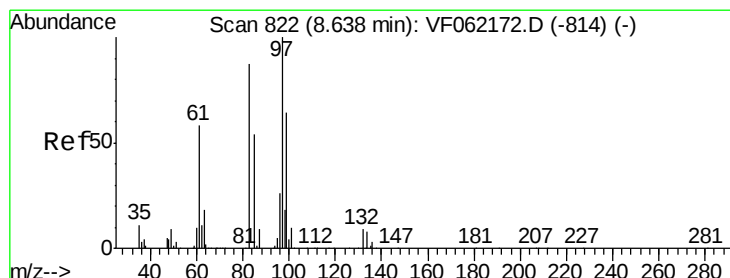
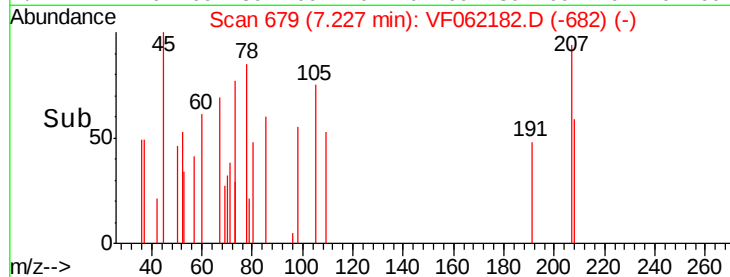
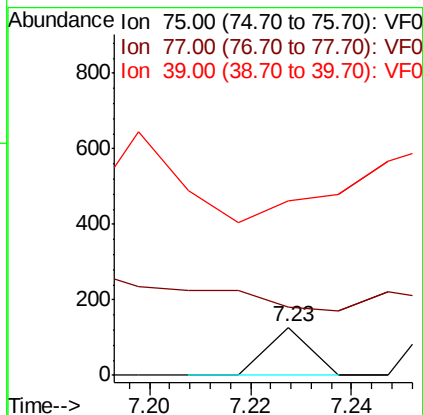
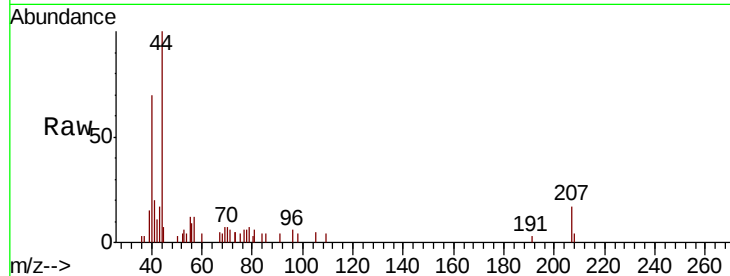


#54

cis-1,3-Dichloropropene
 Concen: 104.892 ug/l
 RT: 7.23 min Scan# 679
 Delta R.T. -0.23 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-4RE

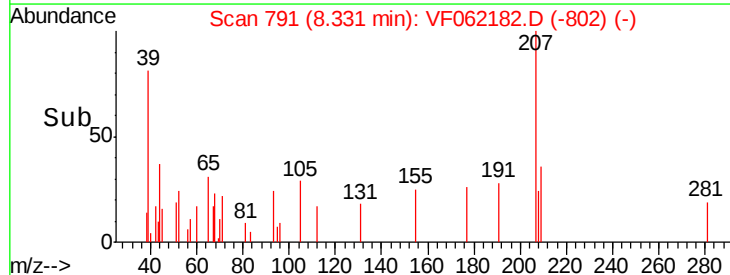
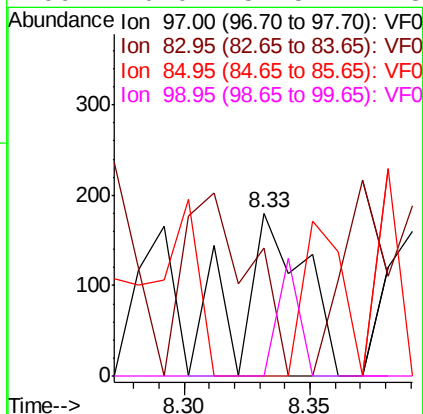
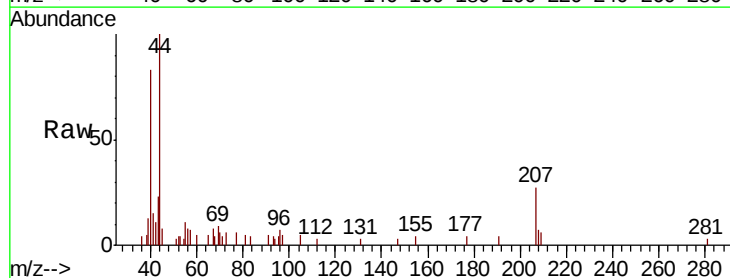
Tot Ion	Ratio	Lower	Upper
75	100		
77	142.5	26.0	39.0#
39	364.6	45.2	67.8#

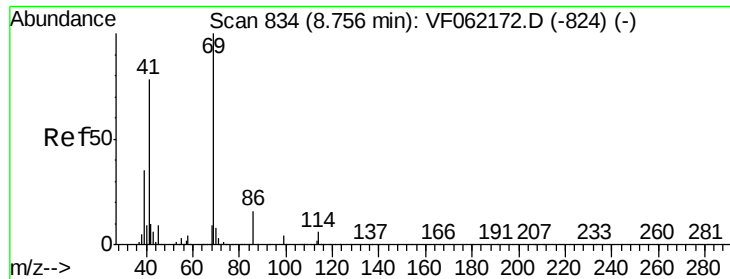


#55

1,1,2-Trichloroethane
 Concen: 1043.236 ug/l
 RT: 8.33 min Scan# 791
 Delta R.T. -0.31 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

Tgt Ion	Ratio	Lower	Upper
97	100		
83	78.3	69.6	104.4
85	0.0	43.5	65.3#
99	0.0	51.5	77.3#





#56

Ethyl methacrylate

Concen: 704.447 ug/l

RT: 8.49 min Scan# 807

Delta R.T. -0.27 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

TP-4RE

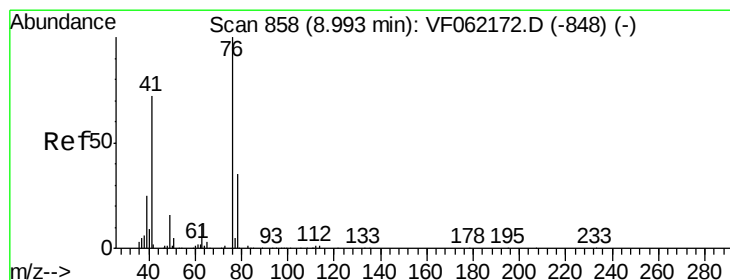
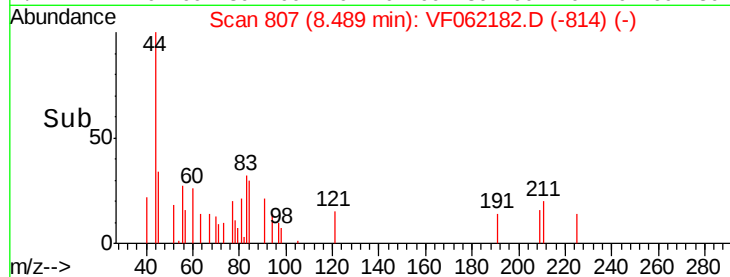
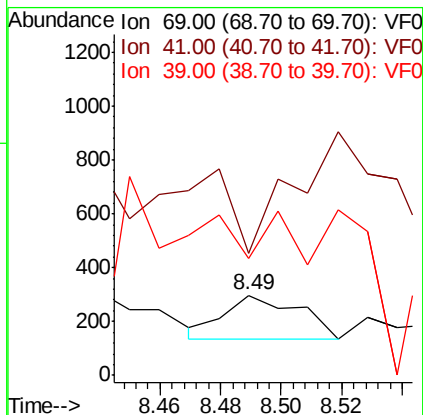
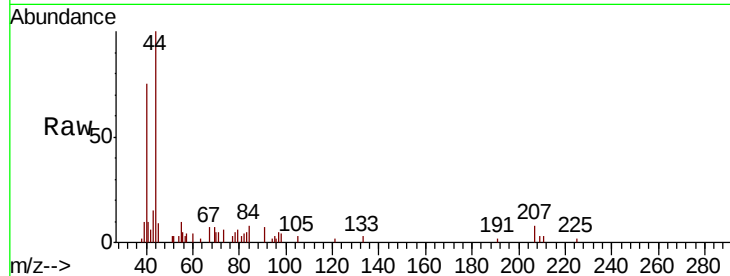
Tot Ion: 69 Resp: 273

Ion Ratio Lower Upper

69 100

41 152.5 63.4 95.0#

39 145.8 29.0 43.6#



#57

1,3-Dichloropropane

Concen: 298.620 ug/l

RT: 8.73 min Scan# 831

Delta R.T. -0.27 min

Lab File: VF062182.D

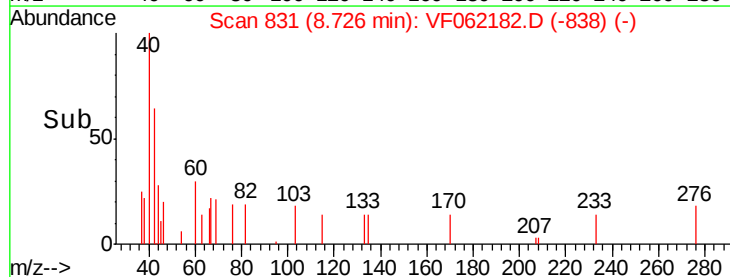
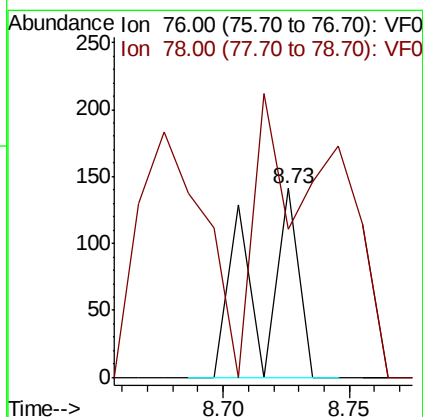
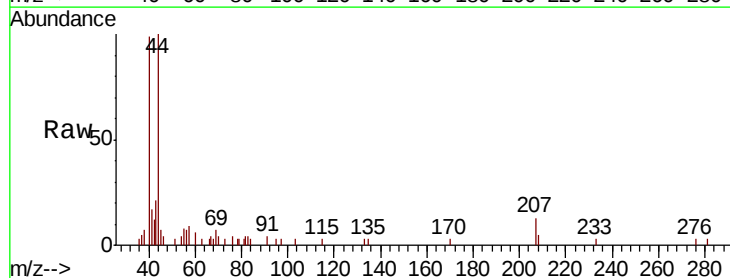
Acq: 16 Apr 2019 18:13

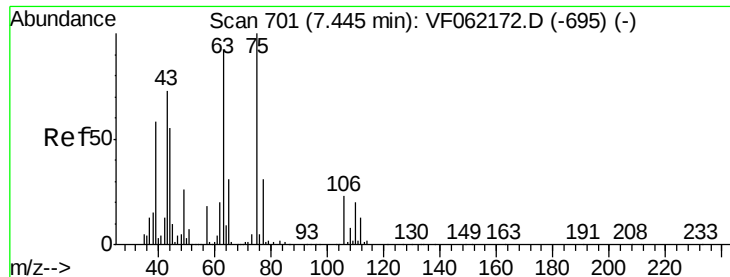
Tgt Ion: 76 Resp: 160

Ion Ratio Lower Upper

76 100

78 78.7 28.2 42.2#





#58

2-Chloroethyl Vinyl ether

Concen: 1402.108 ug/l

RT: 7.22 min Scan# 678

Delta R.T. -0.23 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

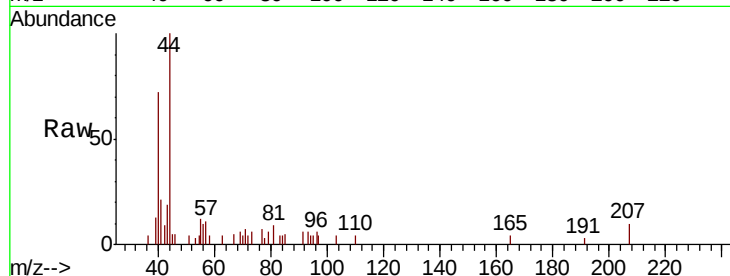
TP-4RE

Tot Ion: 63 Resp: 140

Ion Ratio Lower Upper

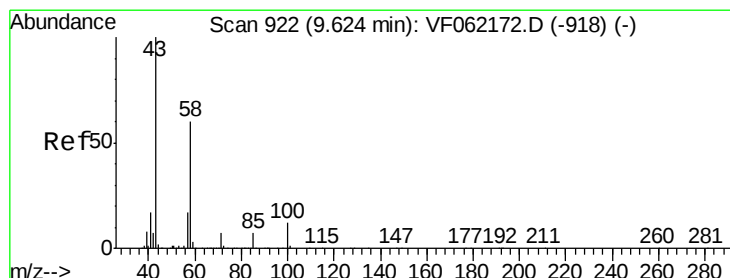
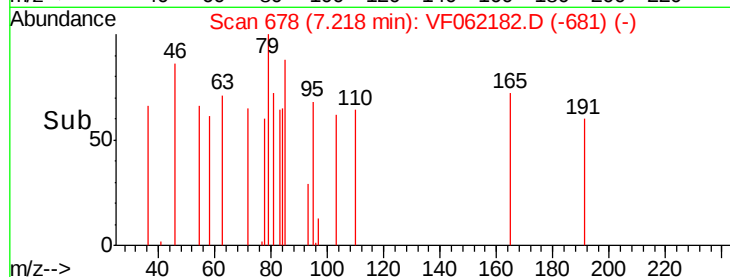
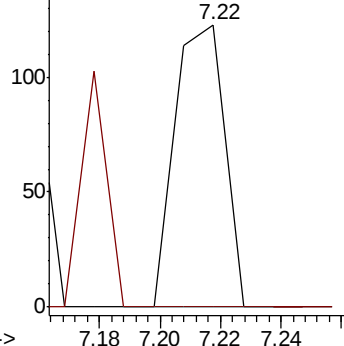
63 100

106 0.0 20.2 30.4#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 14075.056 ug/l

RT: 9.23 min Scan# 882

Delta R.T. -0.40 min

Lab File: VF062182.D

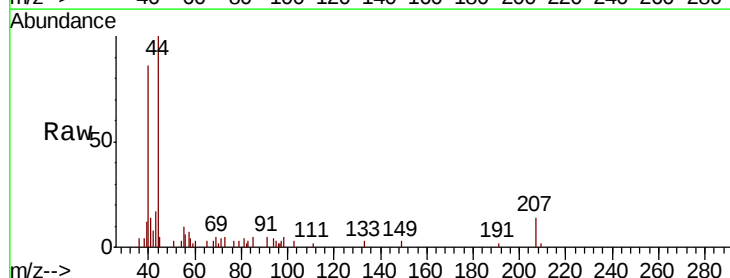
Acq: 16 Apr 2019 18:13

Tgt Ion: 43 Resp: 2691

Ion Ratio Lower Upper

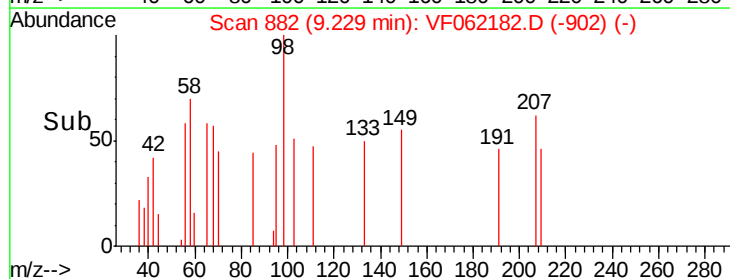
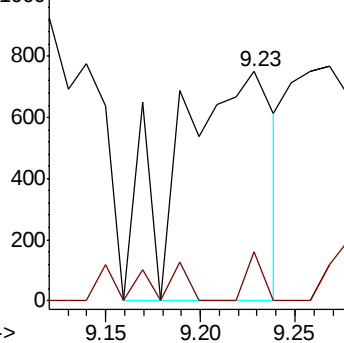
43 100

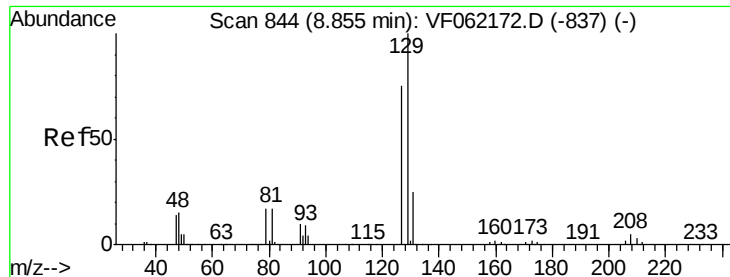
58 21.6 26.8 80.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#60

Dibromochloromethane

Concen: 196.247 ug/l

RT: 8.61 min Scan# 819

Delta R.T. -0.25 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampleId :

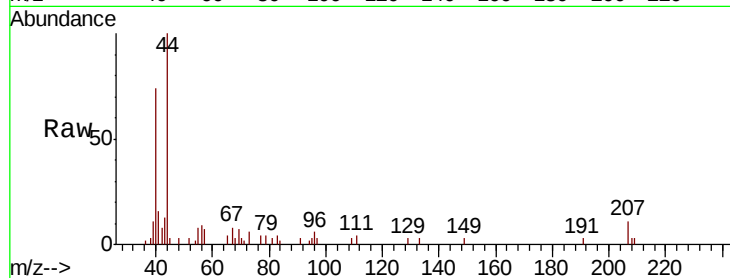
TP-4RE

Tot Ion:129 Resp: 88

Ion Ratio Lower Upper

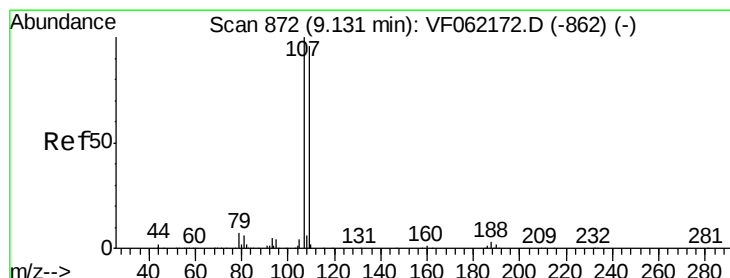
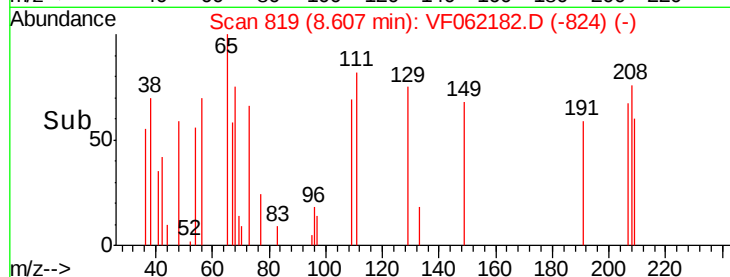
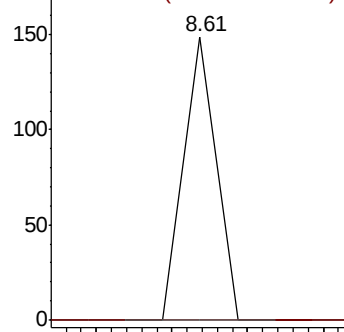
129 100

127 0.0 37.7 113.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#61

1,2-Dibromoethane

Concen: 209.361 ug/l

RT: 8.85 min Scan# 844

Delta R.T. -0.28 min

Lab File: VF062182.D

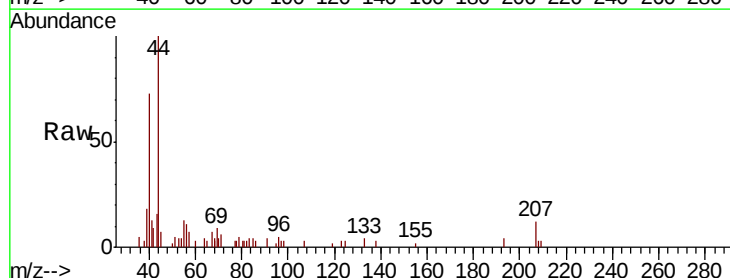
Acq: 16 Apr 2019 18:13

Tgt Ion:107 Resp: 73

Ion Ratio Lower Upper

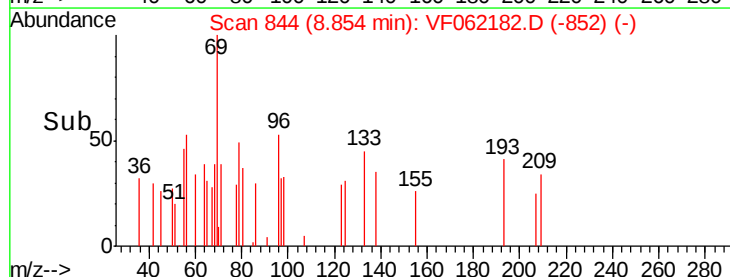
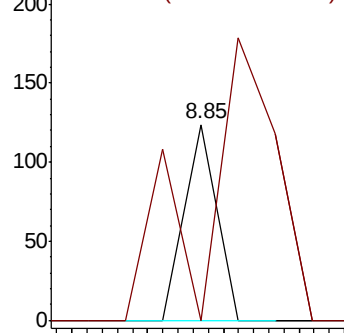
107 100

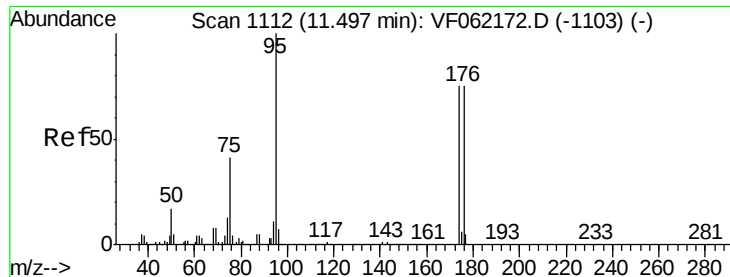
109 0.0 76.8 115.2#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#62

4-Bromofluorobenzene

Concen: 309.583 ug/l

RT: 11.11 min Scan# 1073

Delta R.T. -0.39 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampleId :

TP-4RE

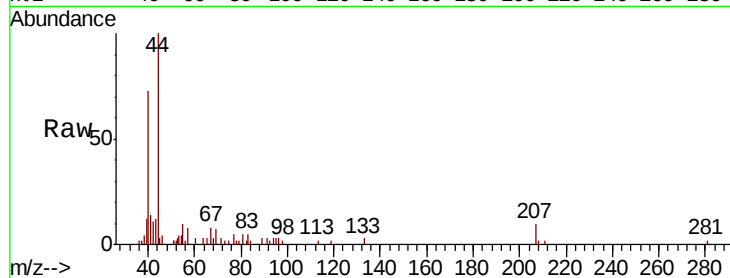
Tot Ion: 95 Resp: 186

Ion Ratio Lower Upper

95 100

174 0.0 0.0 150.2

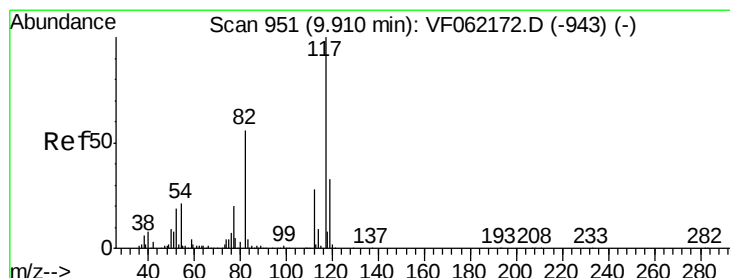
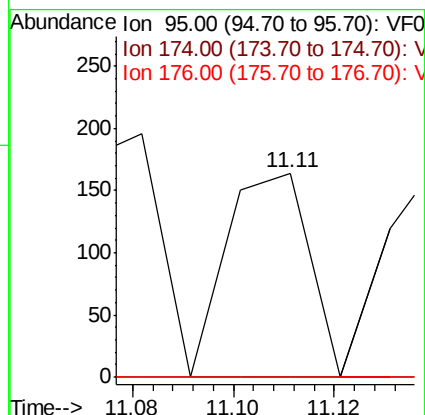
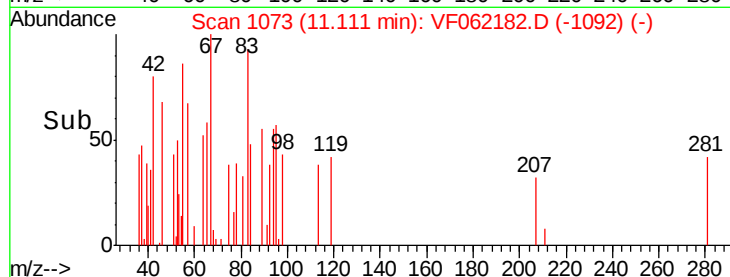
176 0.0 0.0 149.4



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: 9.57 min Scan# 917

Delta R.T. -0.34 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

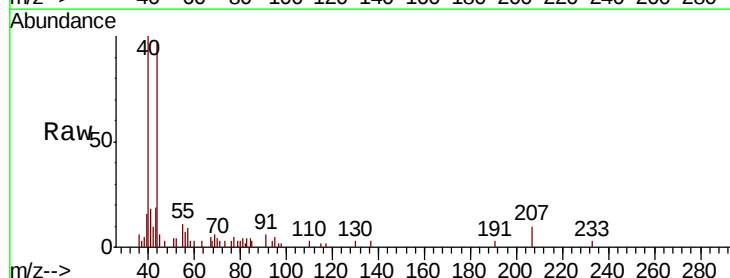
Tgt Ion: 117 Resp: 63

Ion Ratio Lower Upper

117 100

82 96.3 45.2 67.8#

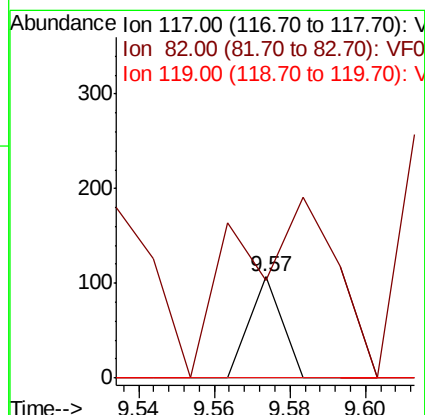
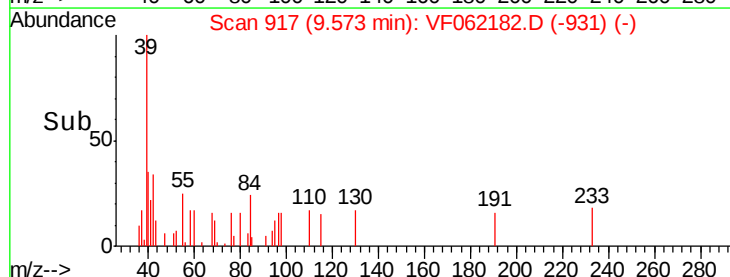
119 0.0 26.6 39.8#

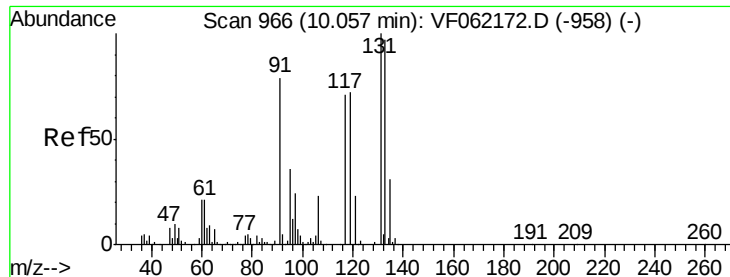


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#66

1,1,1,2-Tetrachloroethane

Concen: 116.439 ug/l

RT: 10.09 min Scan# 969

Delta R.T. 0.03 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

TP-4RE

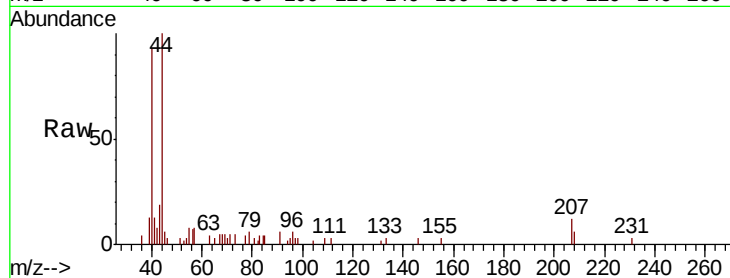
Tot Ion:131 Resp: 63

Ion Ratio Lower Upper

131 100

133 153.8 48.4 145.2#

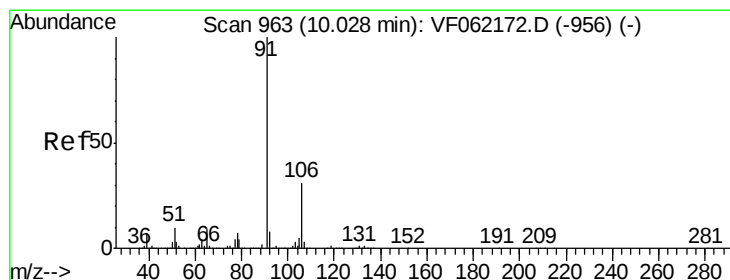
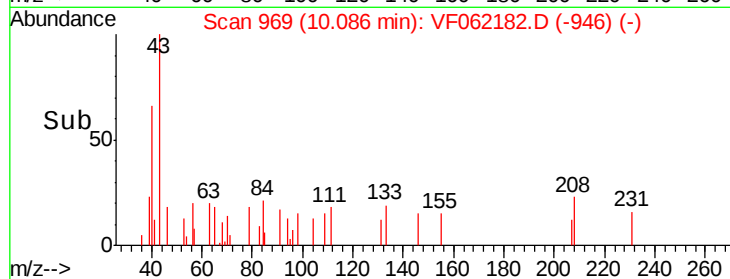
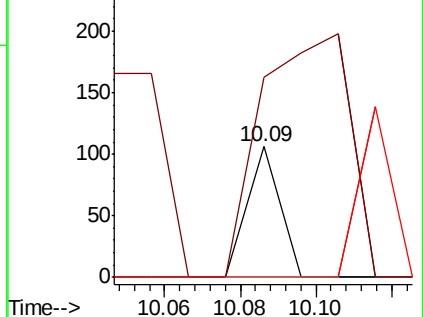
119 0.0 36.3 108.9#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 169.592 ug/l

RT: 10.04 min Scan# 964

Delta R.T. 0.01 min

Lab File: VF062182.D

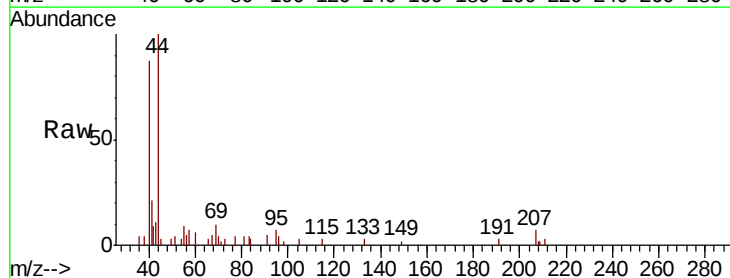
Acq: 16 Apr 2019 18:13

Tgt Ion: 91 Resp: 412

Ion Ratio Lower Upper

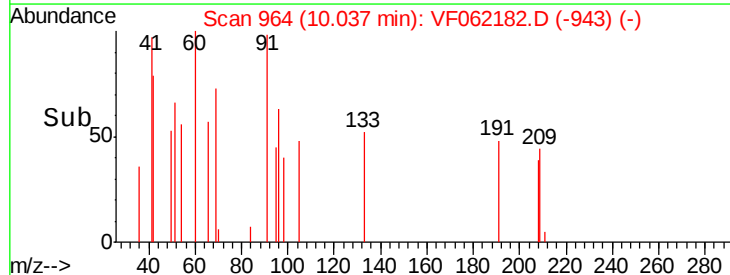
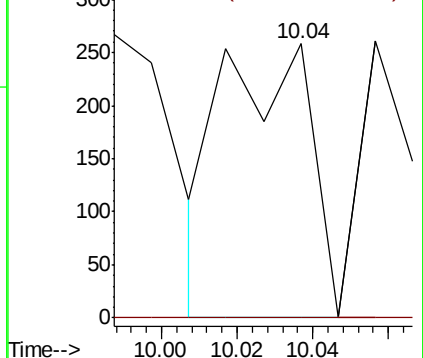
91 100

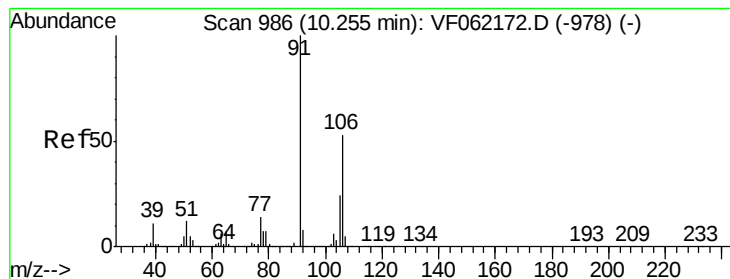
106 0.0 24.7 37.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 99.520 ug/l

RT: 10.23 min Scan# 984

Delta R.T. -0.02 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

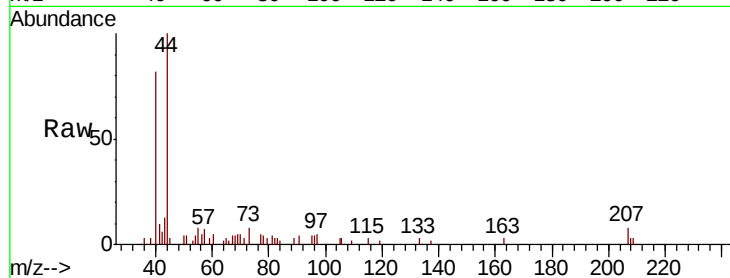
TP-4RE

Tot Ion:106 Resp: 89

Ion Ratio Lower Upper

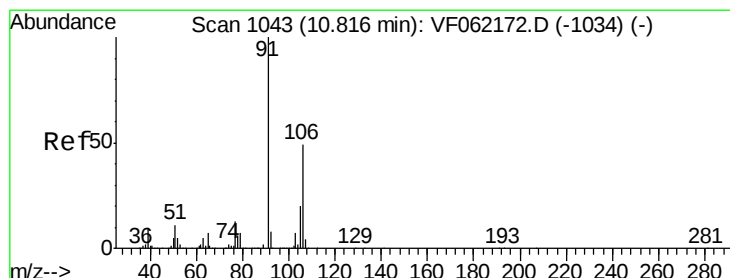
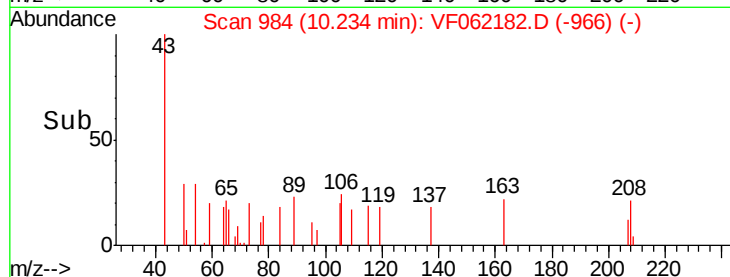
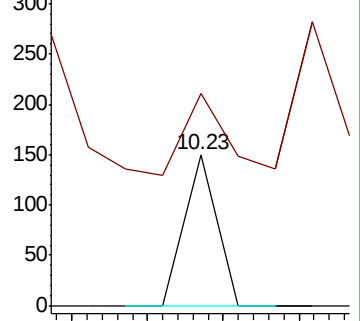
106 100

91 140.7 151.7 227.5#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 74.362 ug/l

RT: 10.67 min Scan# 1028

Delta R.T. -0.15 min

Lab File: VF062182.D

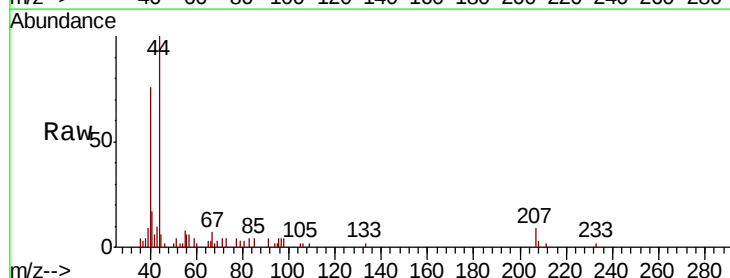
Acq: 16 Apr 2019 18:13

Tgt Ion:106 Resp: 72

Ion Ratio Lower Upper

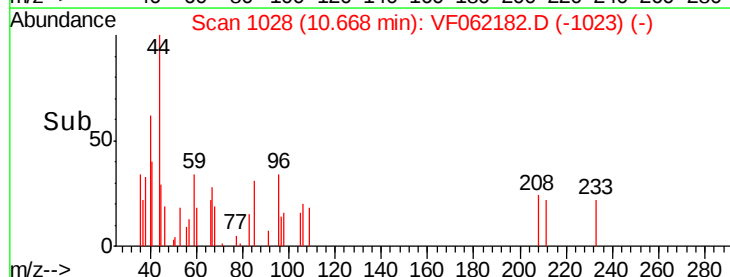
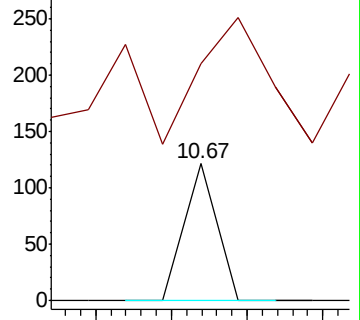
106 100

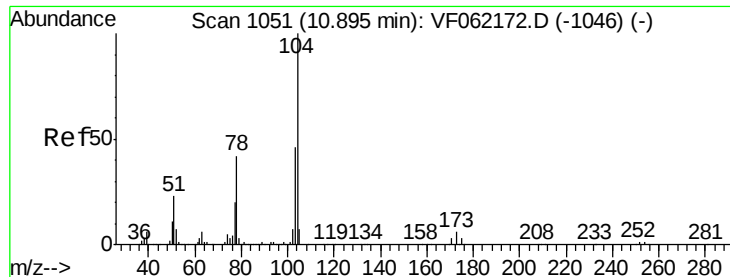
91 173.6 101.9 305.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#70

Stvrene

Concen: 65.336 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

TP-4RE

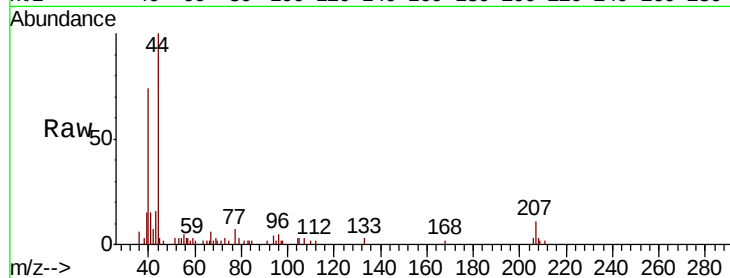
Tot Ion:104 Resp: 92

Ion Ratio Lower Upper

104 100

78 0.0 33.7 50.5#

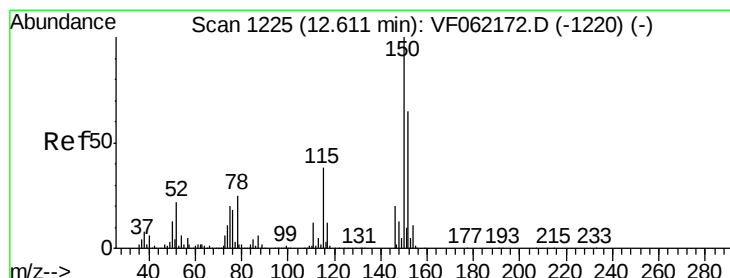
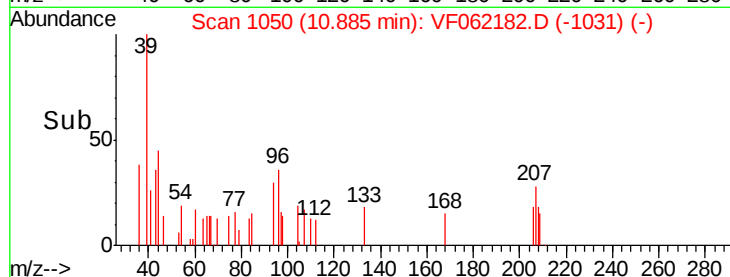
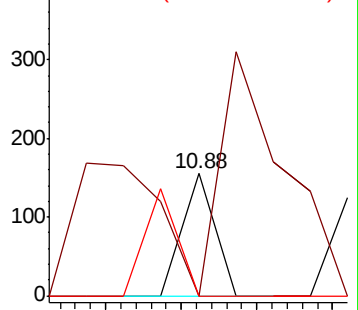
103 0.0 37.2 55.8#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.67 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

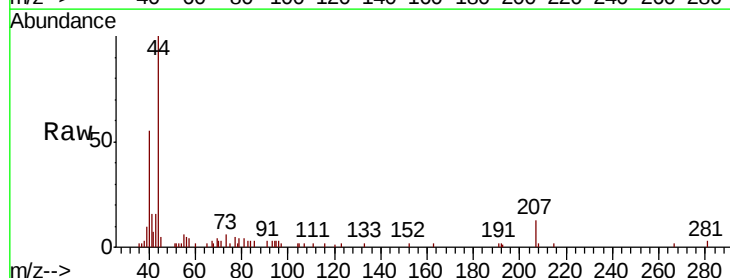
Tgt Ion:152 Resp: 93

Ion Ratio Lower Upper

152 100

115 0.0 29.0 87.1#

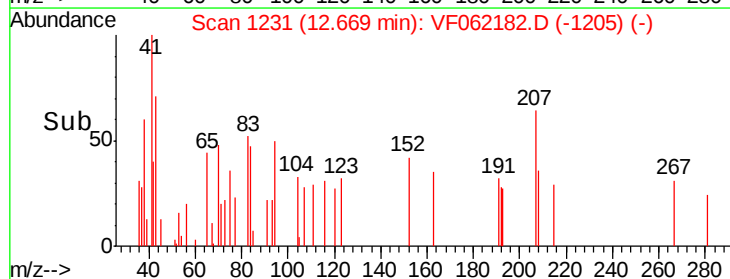
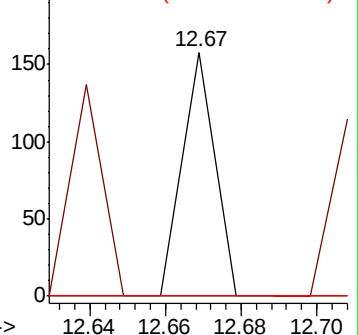
150 0.0 0.0 309.2

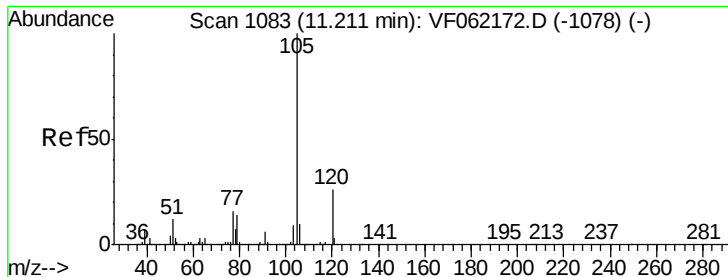


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 14.728 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampleId :

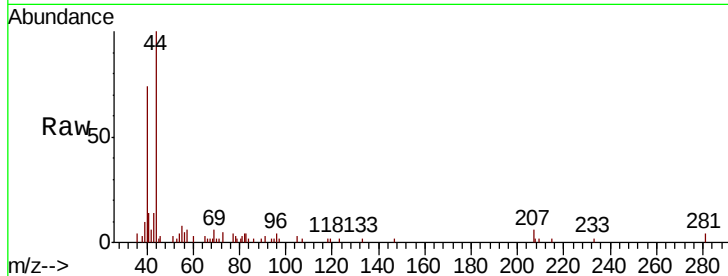
TP-4RE

Tot Ion:105 Resp: 118

Ion Ratio Lower Upper

105 100

120 0.0 13.0 38.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.22

200

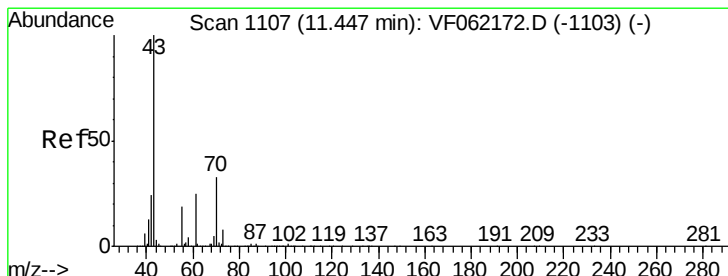
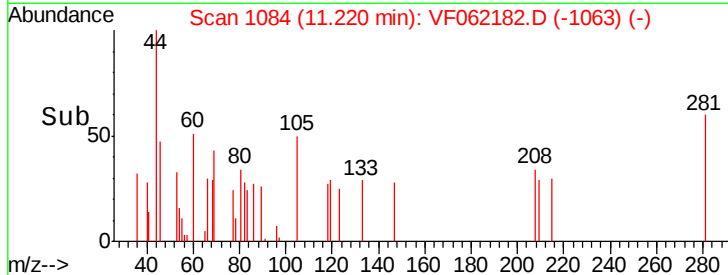
150

100

50

0

Time--> 11.20 11.21 11.22 11.23



#74

N-ethyl acetate

Concen: 281.292 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Tgt Ion: 43 Resp: 479

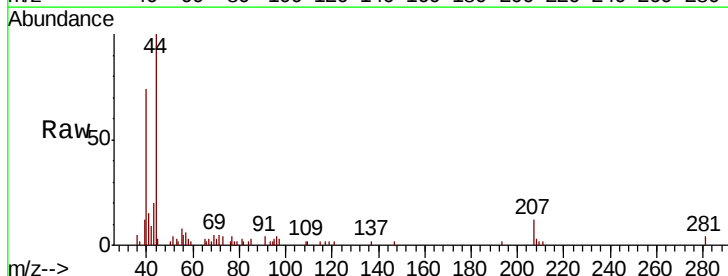
Ion Ratio Lower Upper

43 100

70 14.7 26.6 39.8#

55 38.4 15.0 22.6#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.44

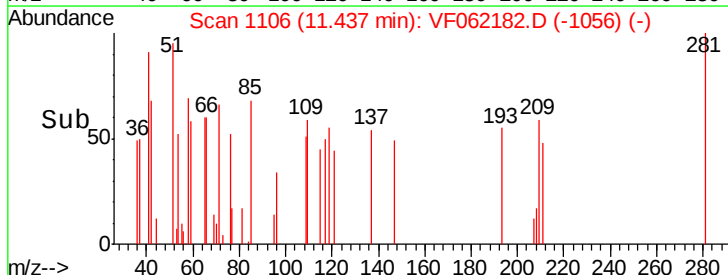
1500

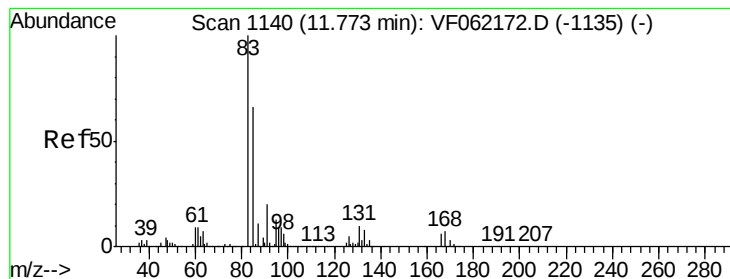
1000

500

0

Time--> 11.40 11.42 11.44 11.46





#75

1,1,2,2-Tetrachloroethane

Concen: 49.747 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

TP-4RE

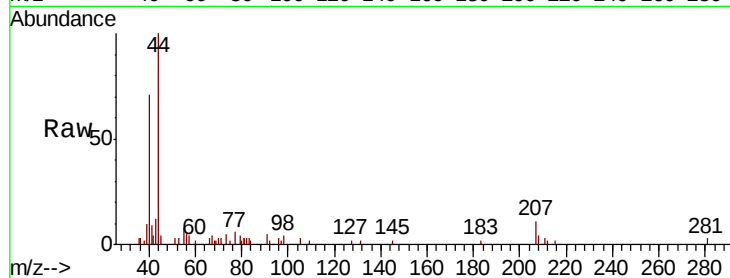
Tot Ion: 83 Resp: 71

Ion Ratio Lower Upper

83 100

131 50.2 4.8 14.4#

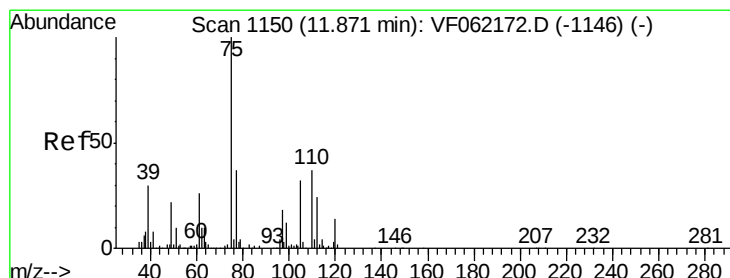
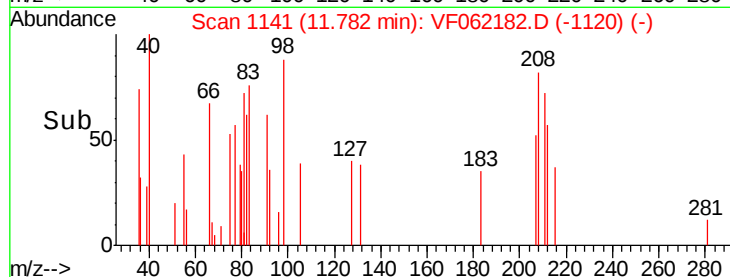
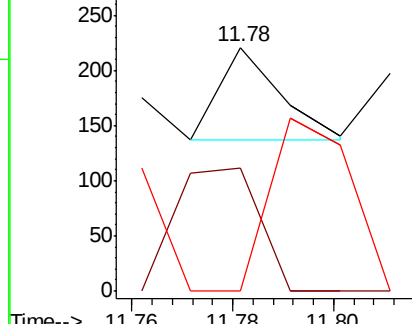
85 0.0 33.2 99.6#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 75.420 ug/l

RT: 11.86 min Scan# 1149

Delta R.T. -0.01 min

Lab File: VF062182.D

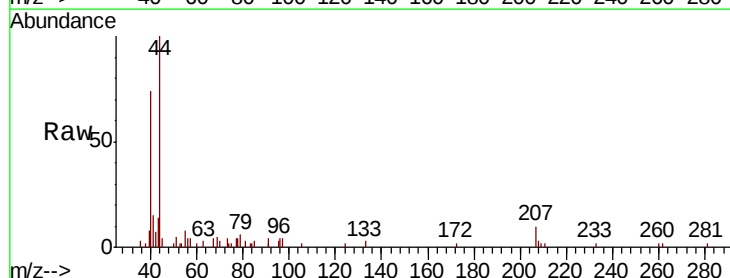
Acq: 16 Apr 2019 18:13

Tgt Ion: 75 Resp: 73

Ion Ratio Lower Upper

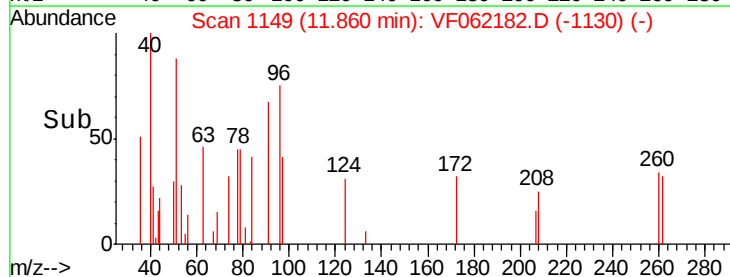
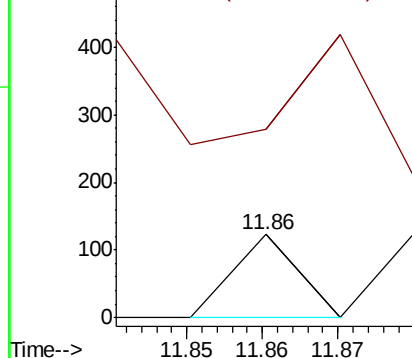
75 100

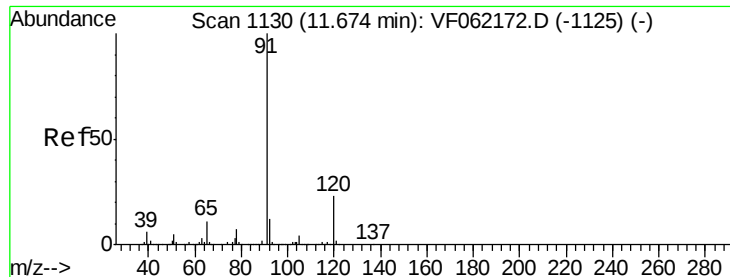
77 226.0 18.7 56.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 25.585 ug/l

RT: 11.70 min Scan# 1133

Delta R.T. 0.03 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampled :

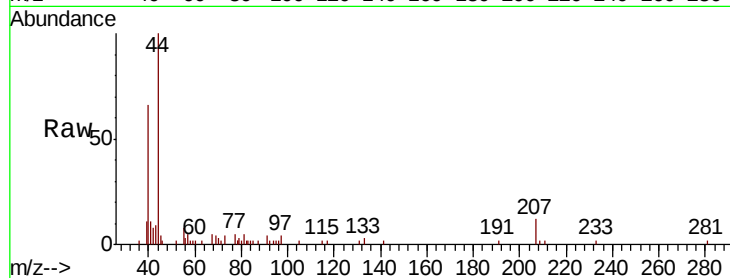
TP-4RE

Tot Ion: 91 Resp: 233

Ion Ratio Lower Upper

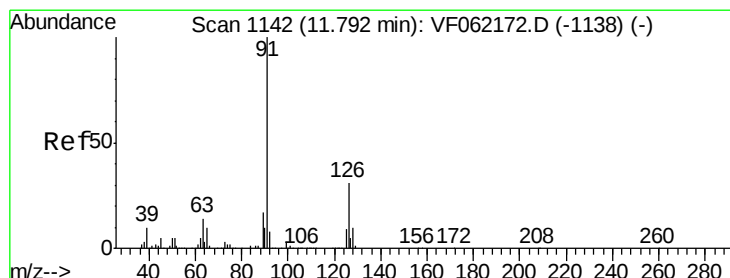
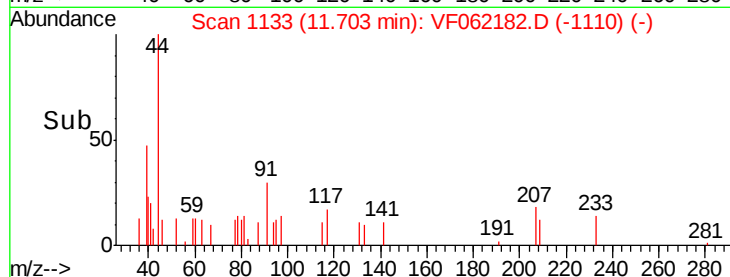
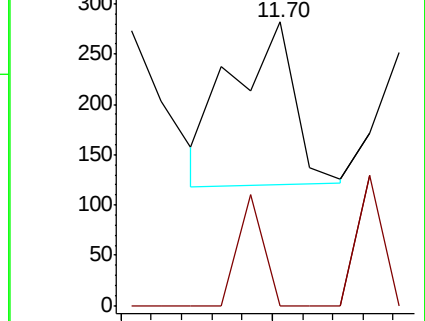
91 100

120 0.0 11.6 34.7#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 63.150 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF062182.D

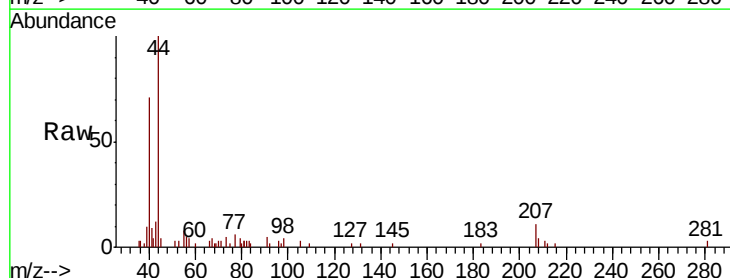
Acq: 16 Apr 2019 18:13

Tgt Ion: 91 Resp: 339

Ion Ratio Lower Upper

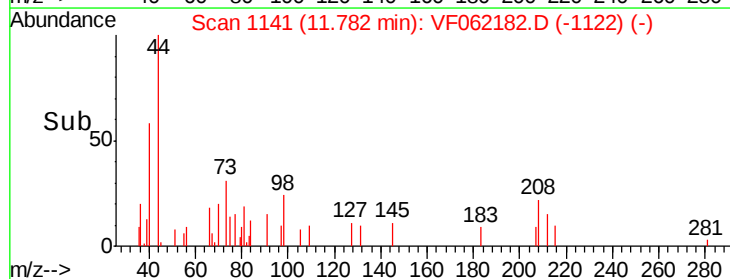
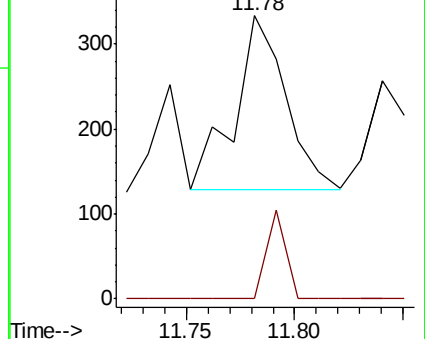
91 100

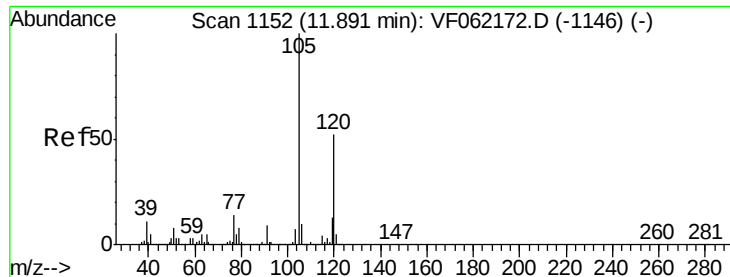
126 0.0 15.6 46.8#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

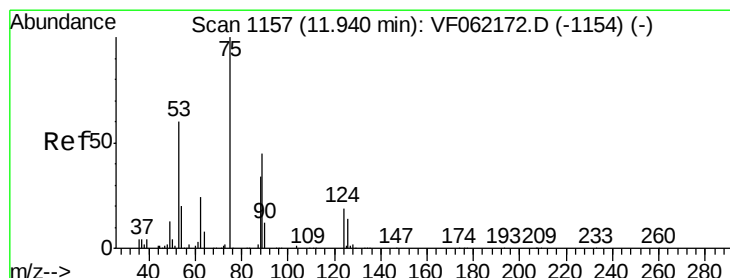
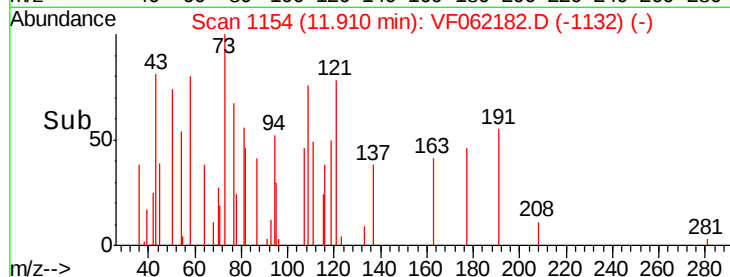
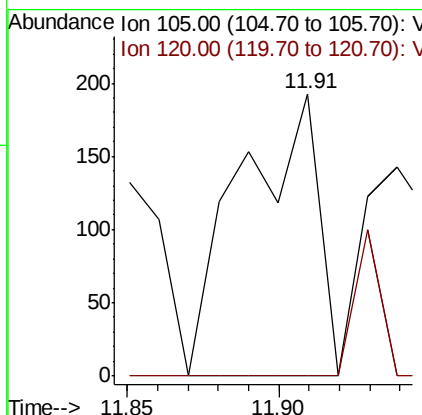
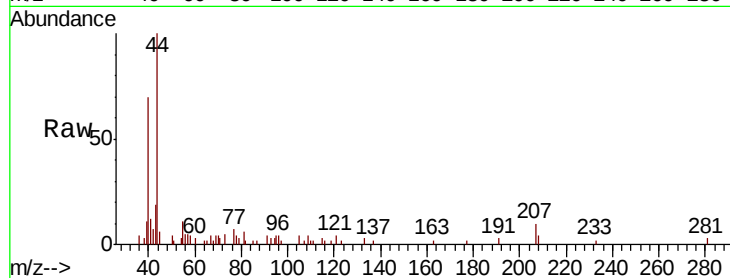




#80
 1,3,5-Trimethylbenzene
 Concen: 51.630 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. 0.02 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

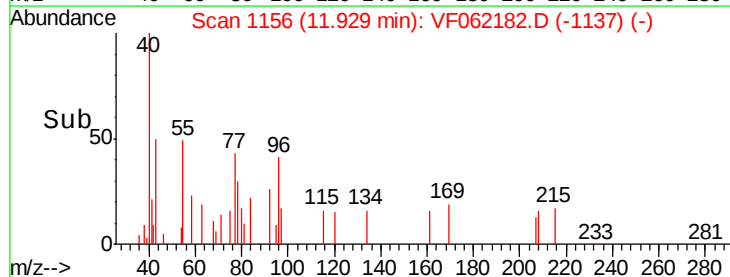
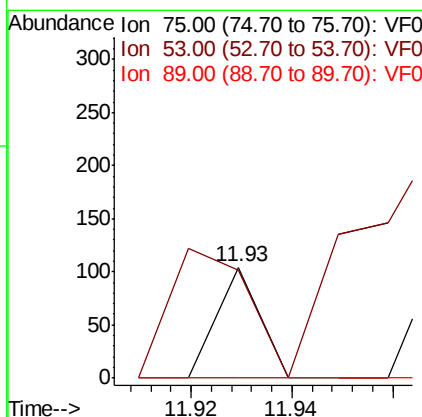
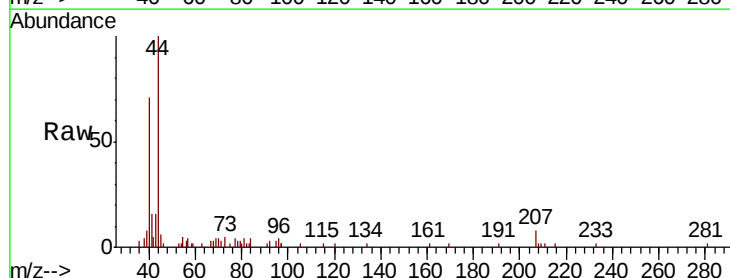
Instrument :
 MSVOA_F
 ClientSampled :
 TP-4RE

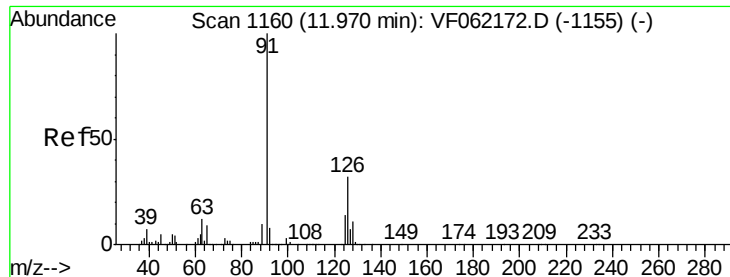
Tot Ion: 105 Resp: 345
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.9 77.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 126.011 ug/l
 RT: 11.93 min Scan# 1156
 Delta R.T. -0.01 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

Tgt Ion: 75 Resp: 61
 Ion Ratio Lower Upper
 75 100
 53 98.1 53.4 80.0#
 89 0.0 38.7 58.1#





#82

4-Chlorotoluene

Concen: 48.283 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampleId :

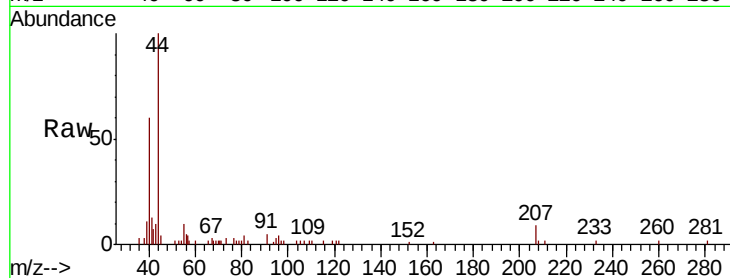
TP-4RE

Tot Ion: 91 Resp: 254

Ion Ratio Lower Upper

91 100

126 0.0 15.9 47.7#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.95

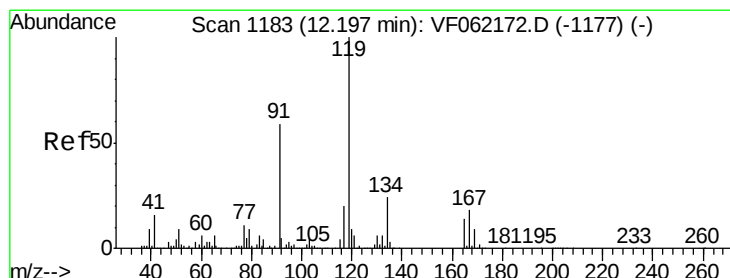
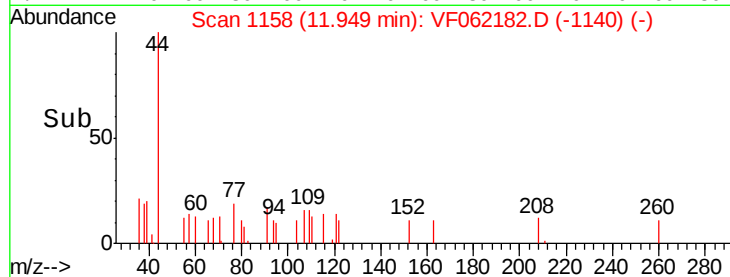
300

200

100

0

Time-->



#83

tert-Butylbenzene

Concen: 11.002 ug/l

RT: 12.21 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

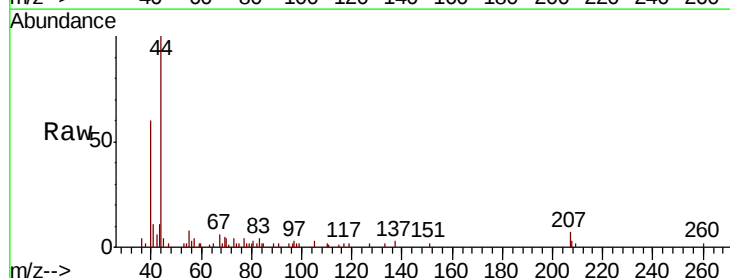
Tgt Ion: 119 Resp: 73

Ion Ratio Lower Upper

119 100

91 140.7 29.5 88.5#

134 0.0 12.0 36.1#



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

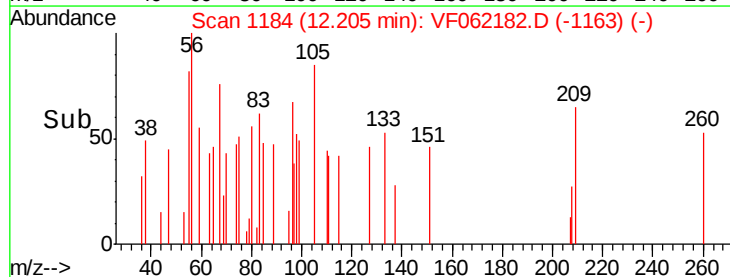
300

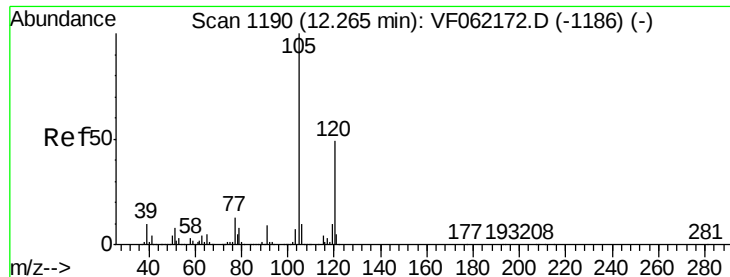
200

100

0

Time-->

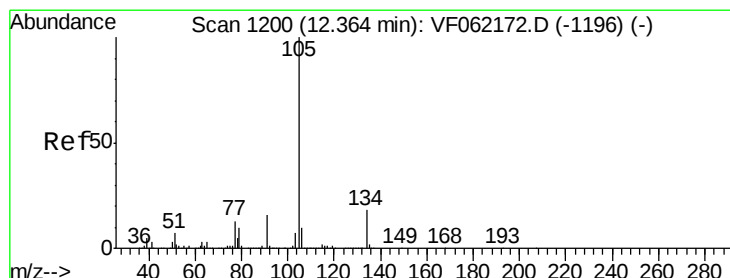
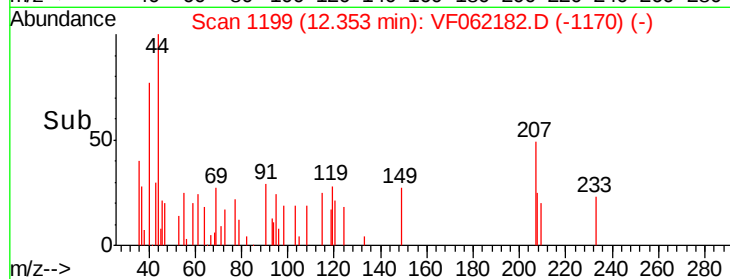
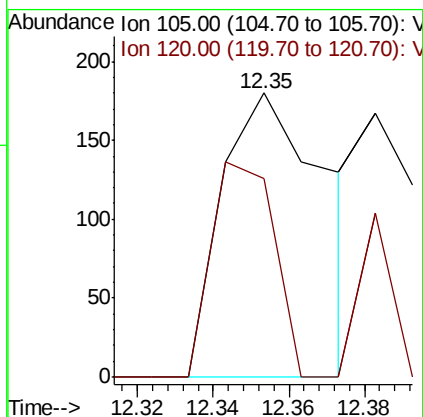
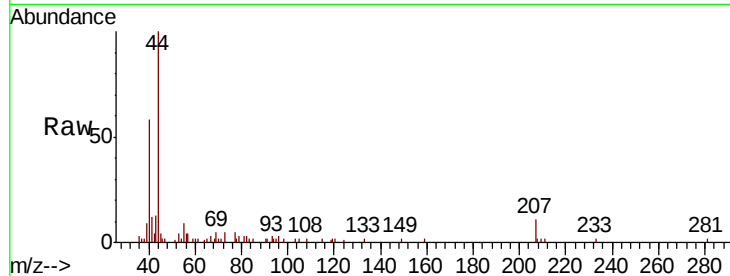




#84
 1,2,4-Trimethylbenzene
 Concen: 53.046 ug/l
 RT: 12.35 min Scan# 1199
 Delta R.T. 0.09 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

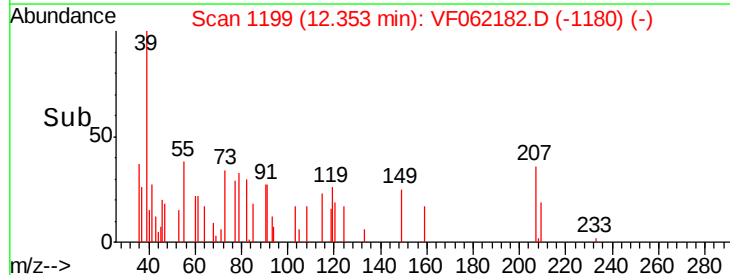
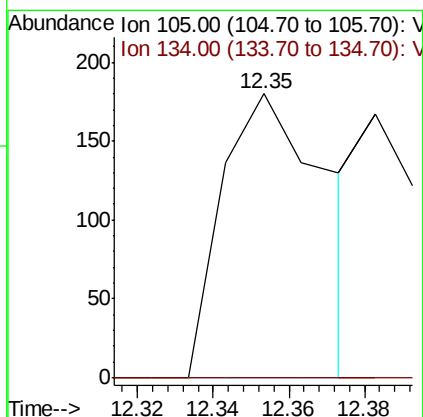
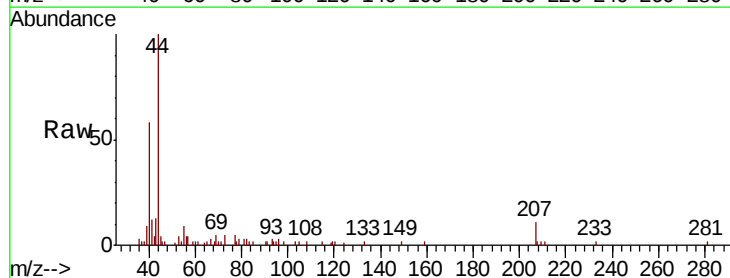
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-4RE

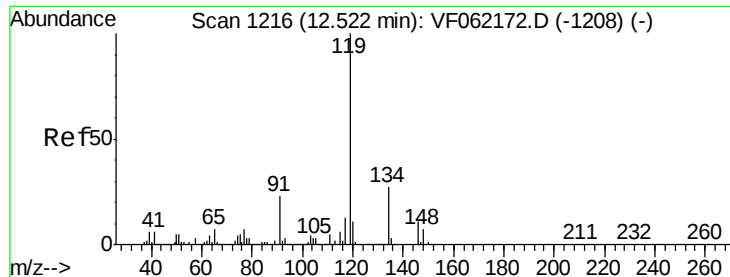
Tot Ion:105 Resp: 344
 Ion Ratio Lower Upper
 105 100
 120 70.0 24.7 74.1



#85
 sec-Butylbenzene
 Concen: 39.427 ug/l
 RT: 12.35 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

Tgt Ion:105 Resp: 344
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.0 27.0#

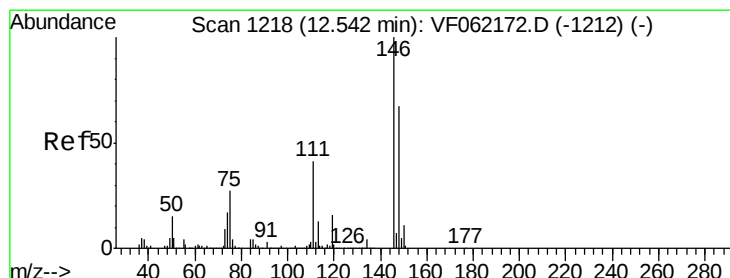
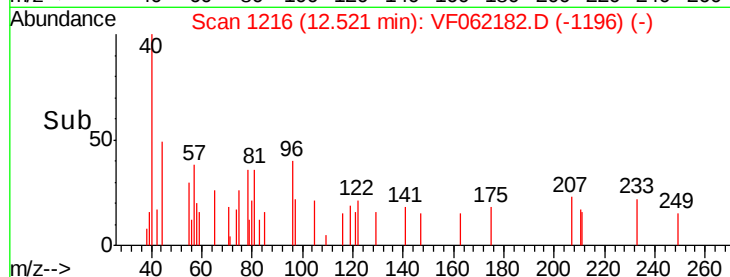
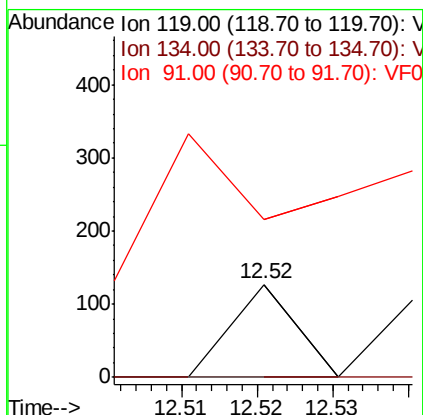
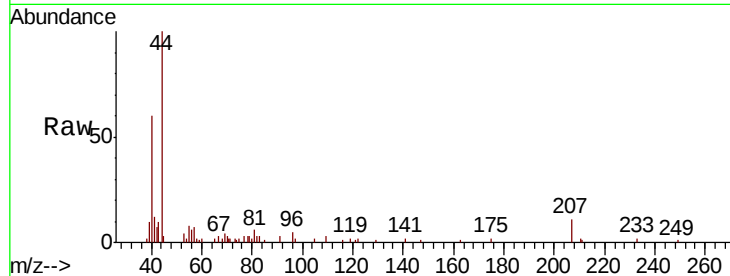




#86
p-Isopropyltoluene
Concen: 10.090 ug/l
RT: 12.52 min Scan# 1216
Delta R.T. -0.00 min
Lab File: VF062182.D
Acq: 16 Apr 2019 18:13

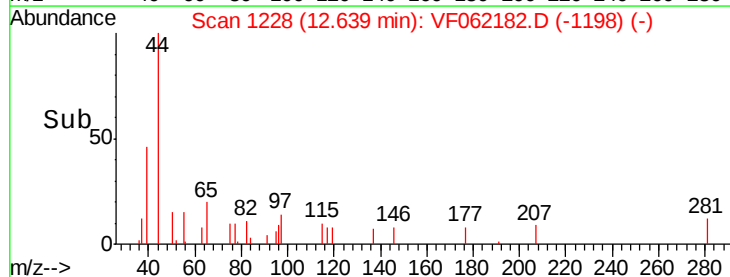
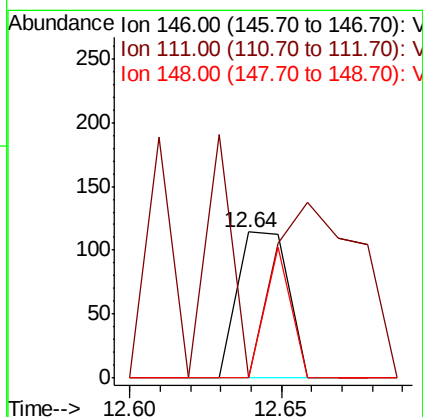
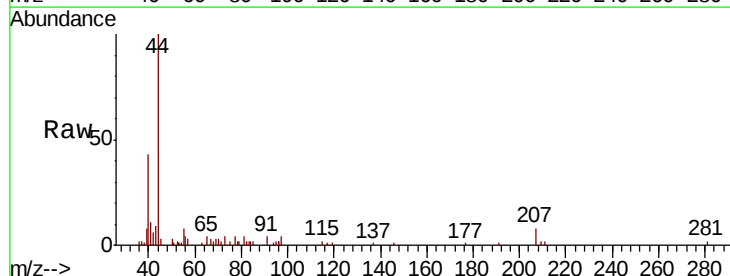
Instrument :
MSVOA_F
ClientSampleId :
TP-4RE

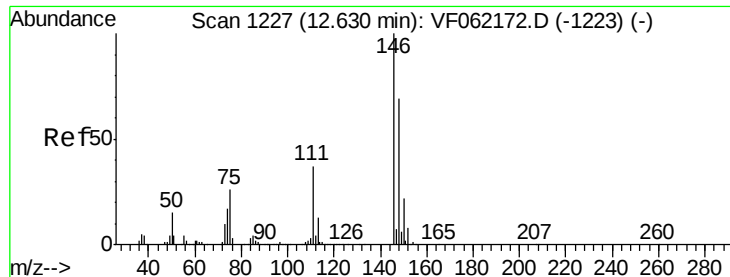
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.5	40.5#
91	170.1	11.5	34.5#



#87
1,3-Dichlorobenzene
Concen: 43.956 ug/l
RT: 12.64 min Scan# 1228
Delta R.T. 0.10 min
Lab File: VF062182.D
Acq: 16 Apr 2019 18:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.5	61.6#
148	0.0	33.6	100.8#

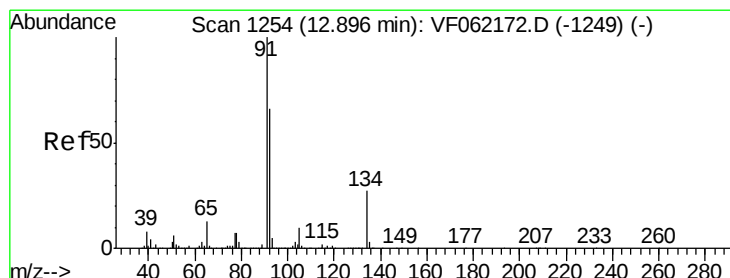
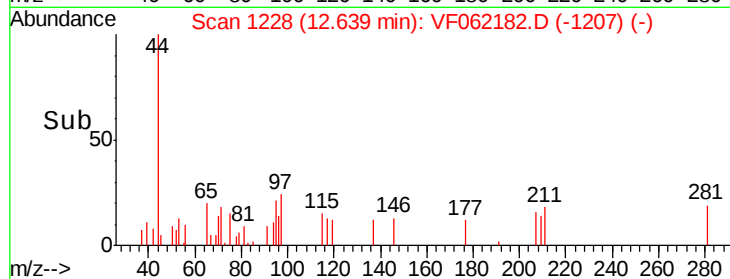
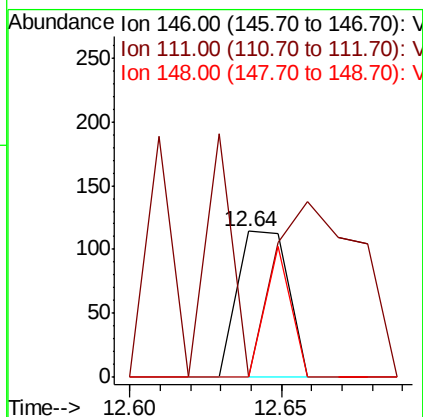
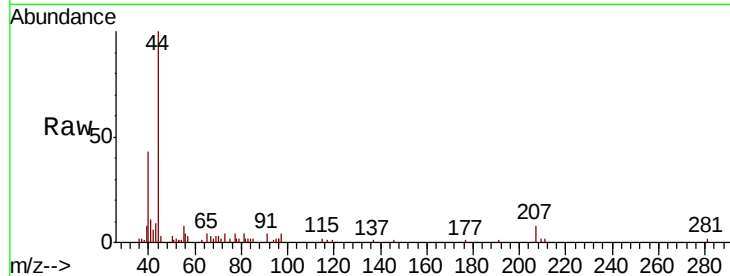




#88
 1,4-Dichlorobenzene
 Concen: 45.084 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. 0.01 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

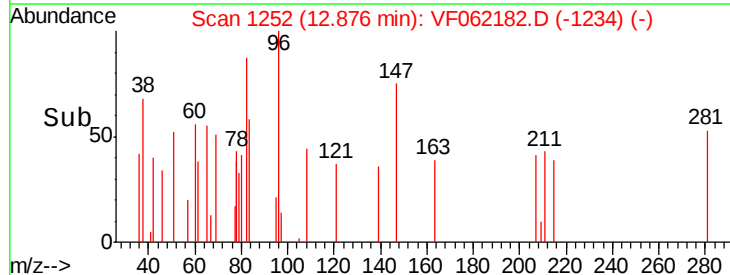
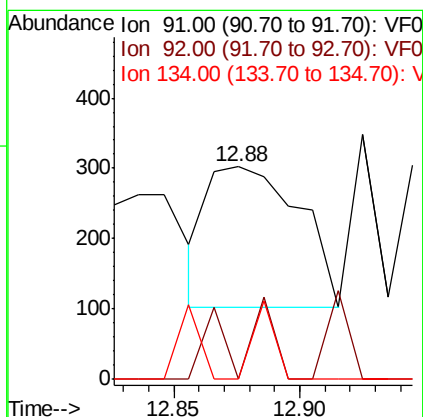
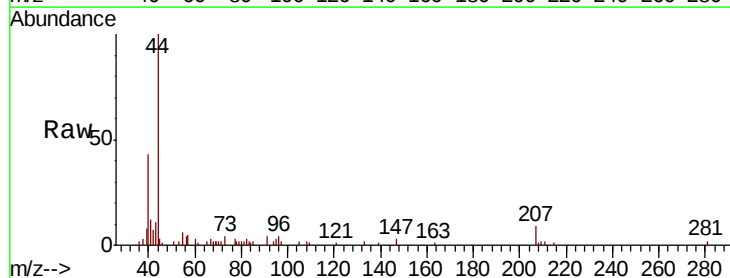
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-4RE

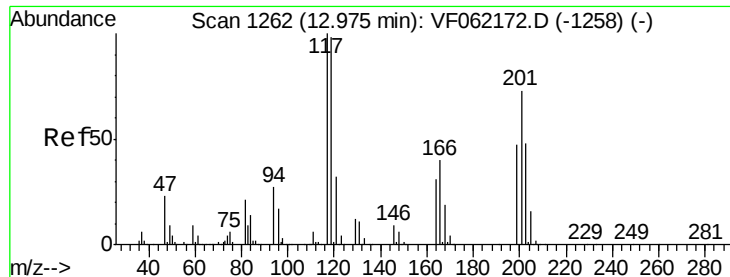
Tot Ion:146 Resp: 134
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.6 55.6#
 148 0.0 34.3 102.8#



#89
 n-Butylbenzene
 Concen: 82.435 ug/l
 RT: 12.88 min Scan# 1252
 Delta R.T. -0.02 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

Tgt Ion: 91 Resp: 512
 Ion Ratio Lower Upper
 91 100
 92 0.0 32.9 98.6#
 134 0.0 13.4 40.2#





#90

Hexachloroethane

Concen: 32.404 ug/l

RT: 12.96 min Scan# 1261

Delta R.T. -0.01 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampleId :

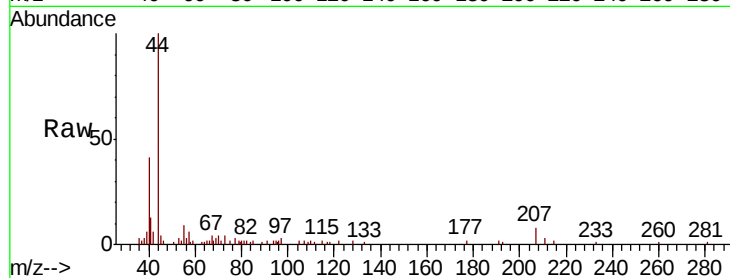
TP-4RE

Tot Ion:117 Resp: 59

Ion Ratio Lower Upper

117 100

201 0.0 36.7 110.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

120

100

80

60

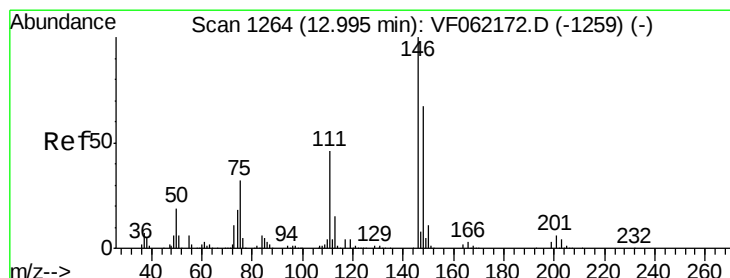
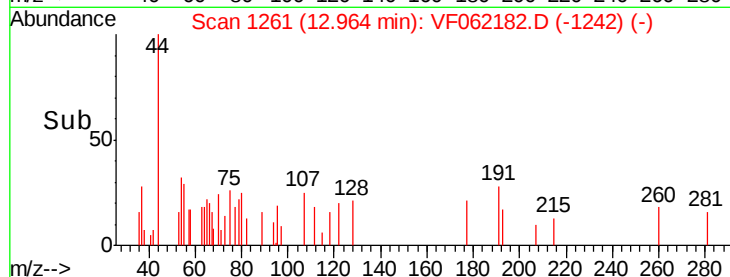
40

20

0

Time-->

12.94 12.96 12.98



#91

1,2-Dichlorobenzene

Concen: 22.901 ug/l

RT: 12.86 min Scan# 1250

Delta R.T. -0.14 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

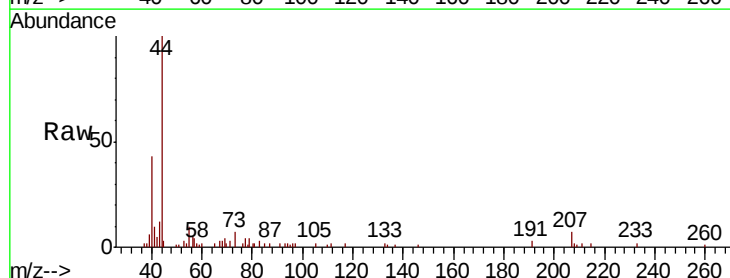
Tgt Ion:146 Resp: 67

Ion Ratio Lower Upper

146 100

111 125.4 22.9 68.8#

148 0.0 33.6 100.6#



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

200

150

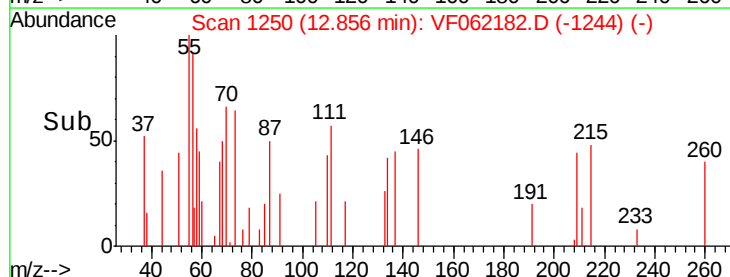
100

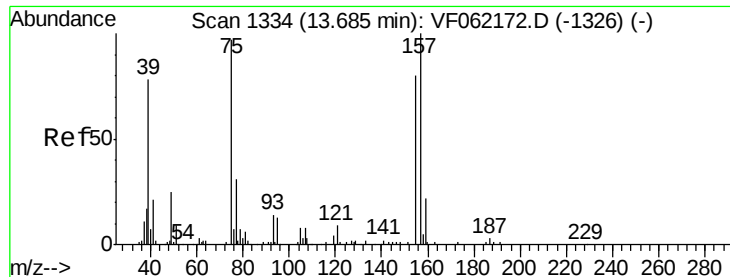
50

0

Time-->

12.82 12.84 12.86 12.88





#92

1,2-Dibromo-3-Chloropropane

Concen: 256.756 ug/l

RT: 13.67 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

Instrument :

MSVOA_F

ClientSampleId :

TP-4RE

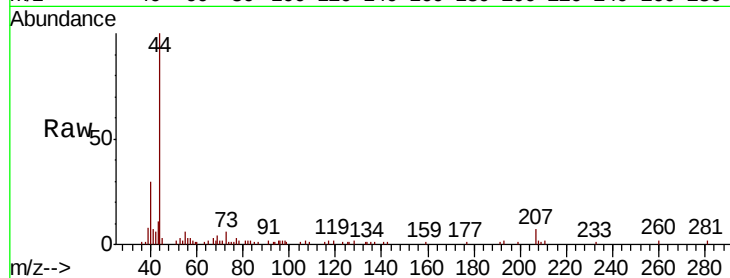
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

155 0.0 41.0 123.0#

157 0.0 51.3 154.0#



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

150

100

50

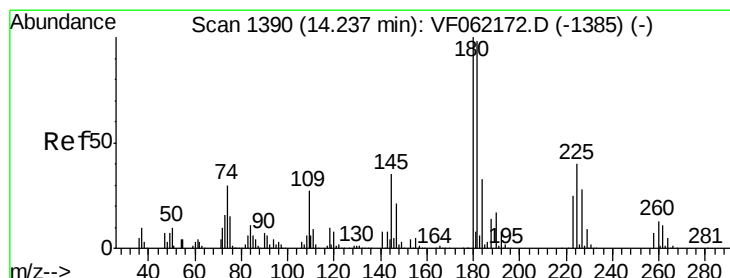
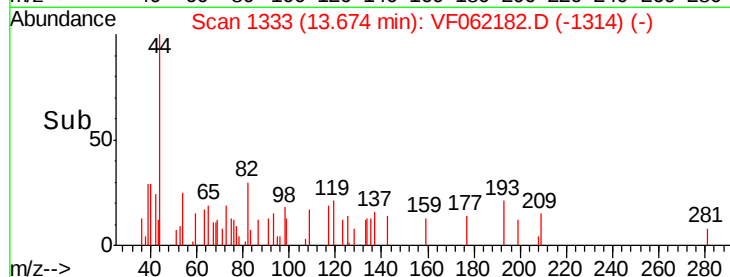
0

13.67

13.68

13.69

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 26.852 ug/l

RT: 14.24 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

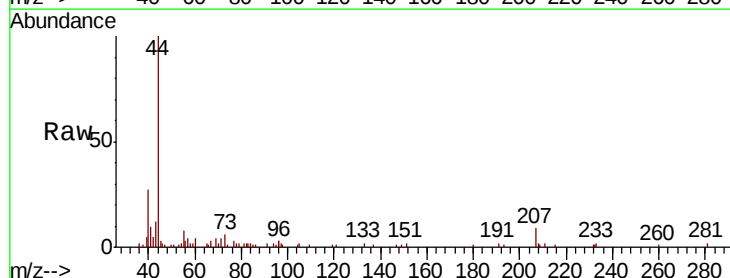
Tgt Ion: 180 Resp: 59

Ion Ratio Lower Upper

180 100

182 0.0 48.8 146.4#

145 0.0 17.3 52.0#



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

100

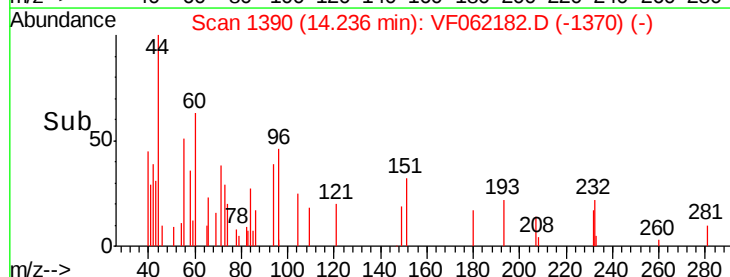
50

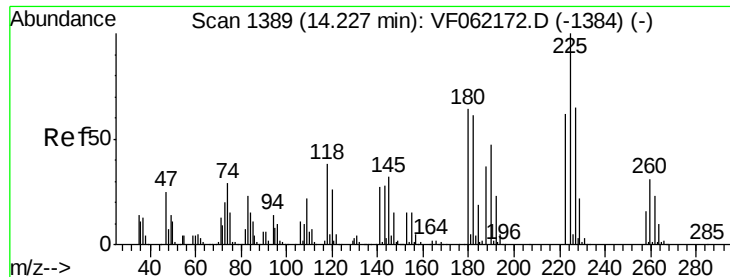
0

14.24

14.26

Time-->





#94

Hexachlorobutadiene

Concen: 43.996 ug/l

RT: 14.23 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

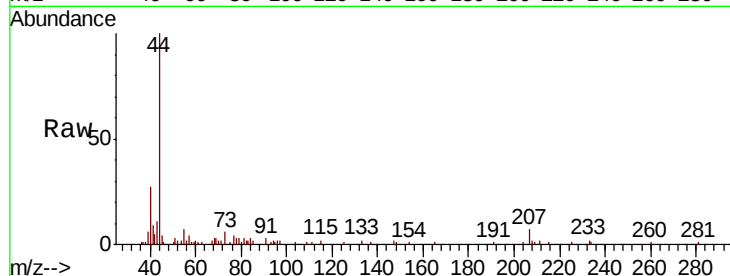
Instrument :

MSVOA_F

ClientSampled :

TP-4RE

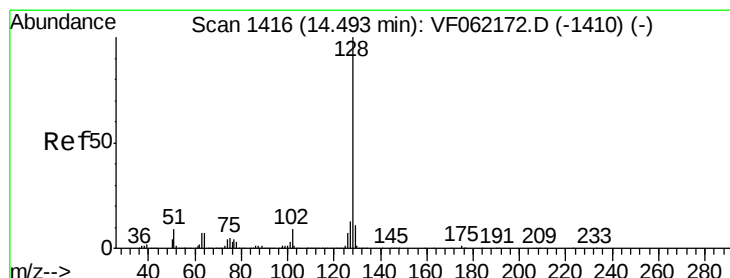
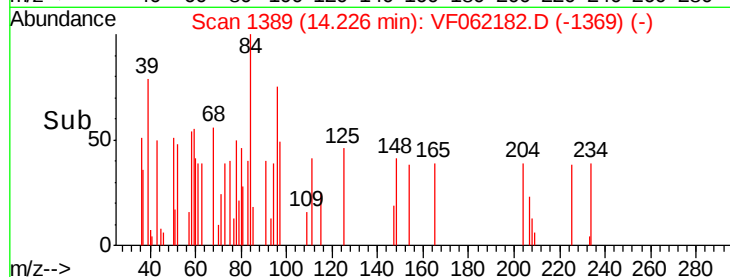
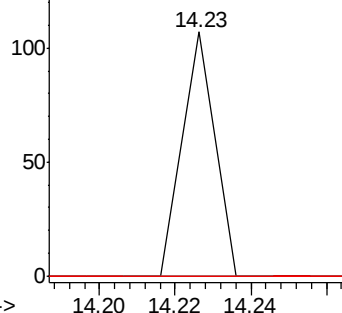
Tot Ion:	225	Resp:	63
Ion	Ratio	Lower	Upper
225	100		
223	0.0	30.9	92.7#
227	0.0	32.3	96.9#



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



#95

Naphthalene

Concen: 56.008 ug/l

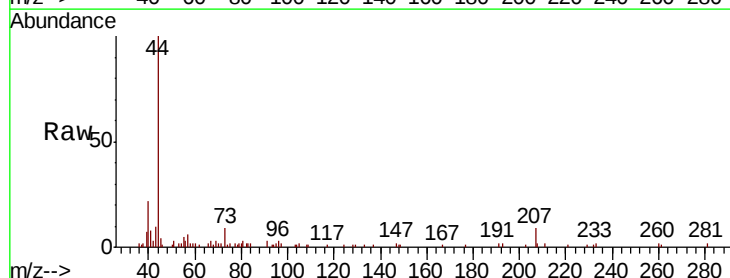
RT: 14.48 min Scan# 1415

Delta R.T. -0.01 min

Lab File: VF062182.D

Acq: 16 Apr 2019 18:13

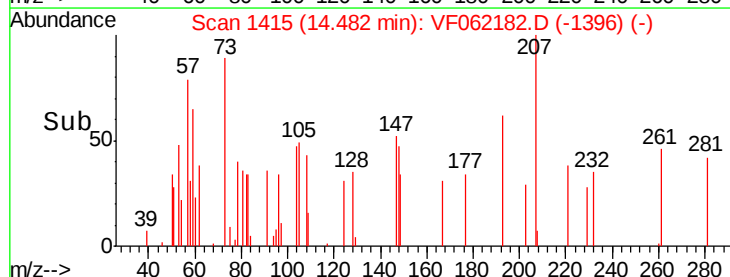
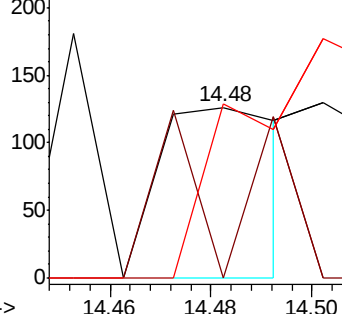
Tgt Ion:	128	Resp:	215
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	102.4	9.2	13.8#

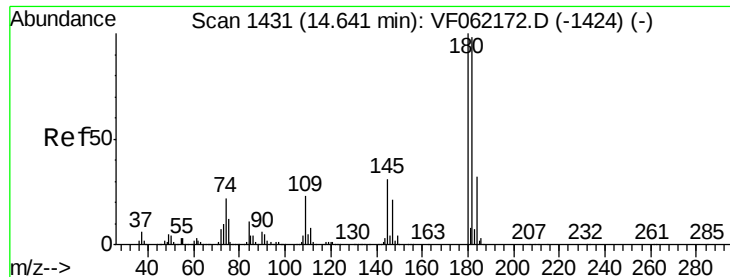


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

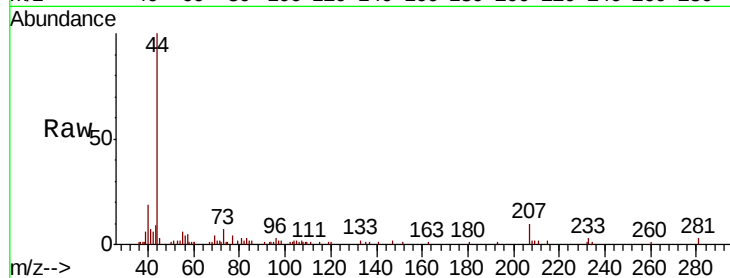




#96
 1,2,3-Trichlorobenzene
 Concen: 30.775 ug/l
 RT: 14.54 min Scan# 1421
 Delta R.T. -0.10 min
 Lab File: VF062182.D
 Acq: 16 Apr 2019 18:13

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-4RE

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	49.0	147.2#
145	0.0	15.4	46.2#



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

