

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060228.D
 Acq On : 10 Sep 2018 12:13
 Operator : VA/AP
 Sample : VF0910SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBS01

Quant Time: Sep 10 13:14:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 07 10:44:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	162683	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	215510	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	239125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	152237	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	145219	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
35) Dibromofluoromethane	4.29	113	113478	53.75	ug/l	0.00
Spiked Amount			Recovery	=	107.50%	
50) Toluene-d8	7.72	98	279422	53.03	ug/l	0.01
Spiked Amount			Recovery	=	106.06%	
62) 4-Bromofluorobenzene	11.51	95	157980	53.14	ug/l	0.01
Spiked Amount			Recovery	=	106.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	72164	23.27	ug/l	99
3) Chloromethane	1.07	50	37329	22.83	ug/l	97
4) Vinyl Chloride	1.12	62	30929	24.54	ug/l #	85
5) Bromomethane	1.32	94	22916	20.30	ug/l	95
6) Chloroethane	1.39	64	16078	19.92	ug/l	98
7) Trichlorofluoromethane	1.48	101	90701	25.81	ug/l	95
8) Diethyl Ether	1.70	74	9819	18.90	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.86	101	40251	23.42	ug/l	91
10) Methyl Iodide	1.93	142	29487	19.05	ug/l #	94
11) Tert butyl alcohol	2.67	59	10973	78.54	ug/l #	81
12) 1,1-Dichloroethene	1.83	96	29013	24.81	ug/l	83
13) Acrolein	2.09	56	5956	89.19	ug/l #	75
14) Allyl chloride	2.19	41	48553	27.69	ug/l	95
15) Acrylonitrile	3.07	53	24410	112.97	ug/l	94
16) Acetone	2.34	43	62469	86.30	ug/l	98
17) Carbon Disulfide	1.84	76	84602	24.82	ug/l	96
18) Methyl Acetate	2.44	43	21760	22.66	ug/l	98
19) Methyl tert-butyl Ether	2.53	73	74316	19.21	ug/l #	89
20) Methylene Chloride	2.29	84	29813	15.29	ug/l	98
21) trans-1,2-Dichloroethene	2.41	96	28386	23.73	ug/l	87
22) Diisopropyl ether	2.92	45	94735	21.56	ug/l	97
23) Vinyl Acetate	3.33	43	122926	83.06	ug/l	98
24) 1,1-Dichloroethane	3.00	63	78132	27.33	ug/l #	99
25) 2-Butanone	4.50	43	70699	88.51	ug/l	98
26) 2,2-Dichloropropane	3.76	77	70358	19.04	ug/l	99
27) cis-1,2-Dichloroethene	3.64	96	36256	23.22	ug/l	86
28) Bromochloromethane	3.89	49	21377	21.96	ug/l	89
29) Tetrahydrofuran	4.25	42	25439	96.33	ug/l	94
30) Chloroform	4.03	83	89661	21.41	ug/l	99
31) Cyclohexane	3.86	56	42549	21.76	ug/l	94
32) 1,1,1-Trichloroethane	4.28	97	88035	21.10	ug/l	98
36) 1,1-Dichloropropene	4.45	75	58344	23.00	ug/l	96
37) Ethyl Acetate	4.28	43	24854	17.54	ug/l #	1
38) Carbon Tetrachloride	4.17	117	76610	21.97	ug/l	93

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

39) Methylcyclohexane	5.63	83	47718	22.46	ug/l	92
40) Benzene	4.81	78	104548	23.13	ug/l	99
41) Methacrylonitrile	4.92	41	13567	20.56	ug/l #	81
42) 1,2-Dichloroethane	5.12	62	69484	21.27	ug/l	99
43) Isopropyl Acetate	7.12	43	28262	19.16	ug/l #	99
44) Trichloroethene	5.68	130	39522	21.59	ug/l	88
45) 1,2-Dichloropropane	6.41	63	28115	21.89	ug/l	97
46) Dibromomethane	6.26	93	25264	22.34	ug/l	83
47) Bromodichloromethane	6.54	83	68139	22.20	ug/l	95
48) Methyl methacrylate	6.88	41	21958	18.74	ug/l	97
49) 1,4-Dioxane	6.87	88	3492	202.77	ug/l #	71
51) 4-Methyl-2-Pentanone	8.41	43	129450	98.75	ug/l	97
52) Toluene	7.78	92	78975	22.56	ug/l	96
53) t-1,3-Dichloropropene	8.43	75	53774	20.85	ug/l	94
54) cis-1,3-Dichloropropene	7.46	75	56622	21.15	ug/l	95
55) 1,1,2-Trichloroethane	8.63	97	26256	20.40	ug/l	92
56) Ethyl methacrylate	8.76	69	28572	19.42	ug/l	94
57) 1,3-Dichloropropane	9.00	76	46727	20.42	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.78	63	17468	110.38	ug/l	100
59) 2-Hexanone	9.63	43	87889	88.89	ug/l	99
60) Dibromochloromethane	8.86	129	45342	21.27	ug/l	98
61) 1,2-Dibromoethane	9.14	107	31356	20.31	ug/l	85
64) Tetrachloroethene	8.31	164	53189	19.15	ug/l	92
65) Chlorobenzene	9.95	112	104672	21.15	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.07	131	41826	19.07	ug/l	96
67) Ethyl Benzene	10.04	91	196877	21.32	ug/l	96
68) m/p-Xylenes	10.27	106	141832	45.78	ug/l	92
69) o-Xylene	10.83	106	73444	22.22	ug/l	93
70) Styrene	10.90	104	109832	21.93	ug/l	99
71) Bromoform	10.89	173	28152	22.23	ug/l #	99
73) Isopropylbenzene	11.23	105	230235	21.92	ug/l	98
74) N-amyl acetate	11.46	43	29309	17.47	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.79	83	33526	21.23	ug/l	96
76) 1,2,3-Trichloropropane	11.89	75	32216	19.25	ug/l	98
77) Bromobenzene	11.59	156	58095	21.13	ug/l	88
78) n-propylbenzene	11.69	91	283207	22.51	ug/l	95
79) 2-Chlorotoluene	11.82	91	166801	21.94	ug/l	92
80) 1,3,5-Trimethylbenzene	11.92	105	211075	22.77	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.96	75	9160	24.79	ug/l	95
82) 4-Chlorotoluene	11.99	91	178010	21.10	ug/l	99
83) tert-Butylbenzene	12.21	119	193804	22.94	ug/l	99
84) 1,2,4-Trimethylbenzene	12.29	105	211427	22.45	ug/l	98
85) sec-Butylbenzene	12.39	105	265916	22.82	ug/l	98
86) p-Isopropyltoluene	12.54	119	227679	22.00	ug/l	97
87) 1,3-Dichlorobenzene	12.56	146	111406	22.17	ug/l	94
88) 1,4-Dichlorobenzene	12.65	146	108632	21.84	ug/l	97
89) n-Butylbenzene	12.92	91	205103	20.49	ug/l	99
90) Hexachloroethane	12.99	117	48137	22.95	ug/l	90
91) 1,2-Dichlorobenzene	13.02	146	104983	22.00	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.71	75	8923	22.14	ug/l	84

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Quant Title : SW846 8260
QLast Update : Fri Sep 07 10:44:05 2018
Response via : Initial Calibration

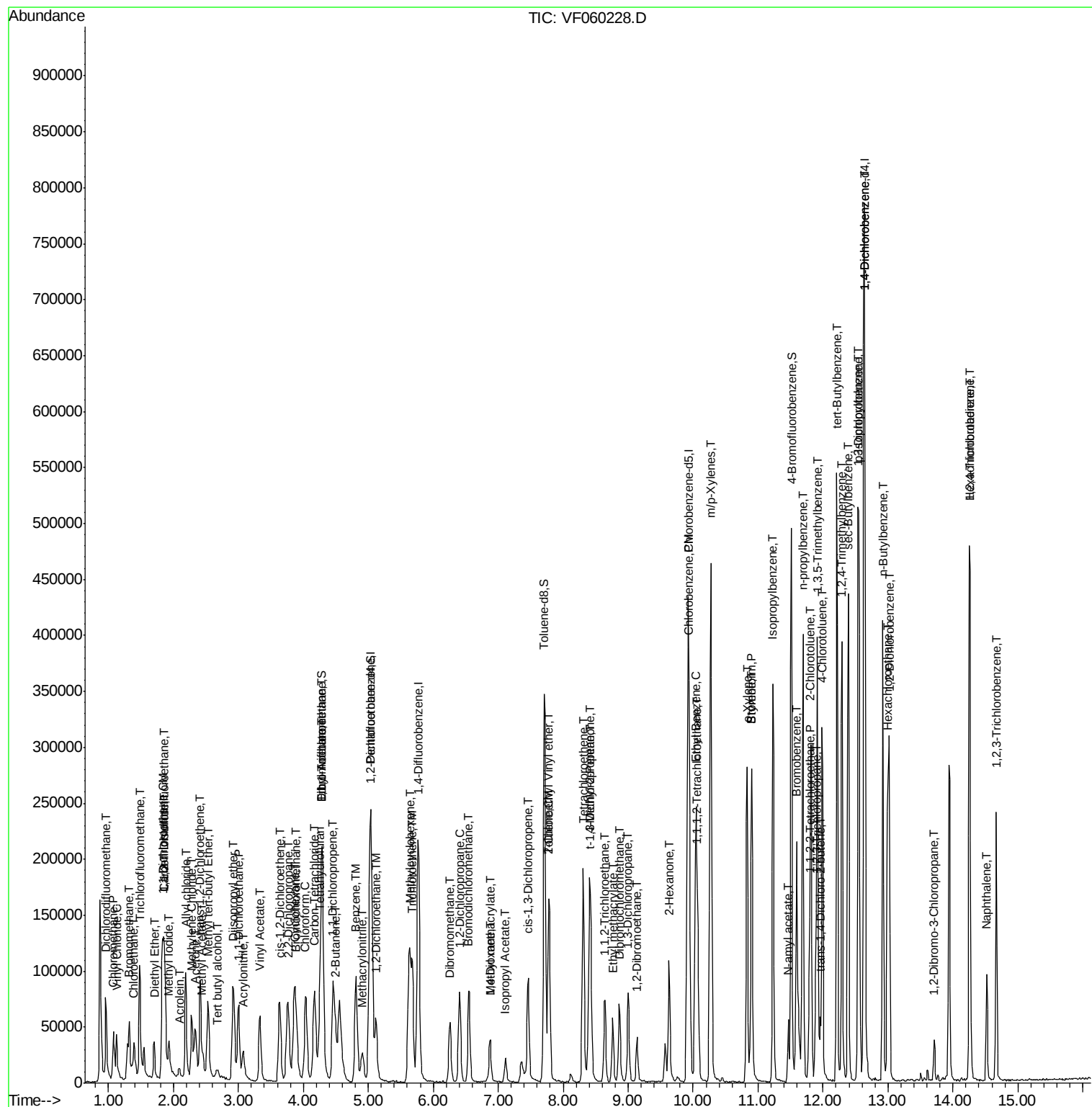
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	71742	19.46	ug/l	99
94) Hexachlorobutadiene	14.25	225	55930	21.28	ug/l	98
95) Naphthalene	14.52	128	65796	13.44	ug/l	97
96) 1,2,3-Trichlorobenzene	14.67	180	66089	19.10	ug/l	99

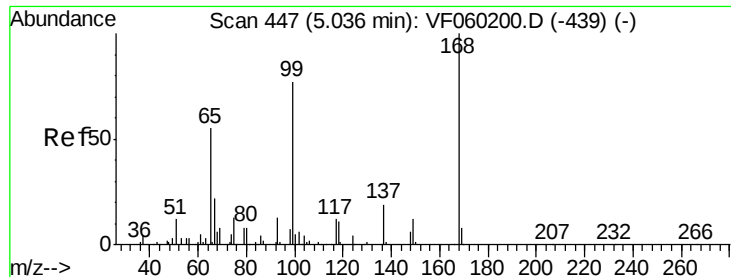
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

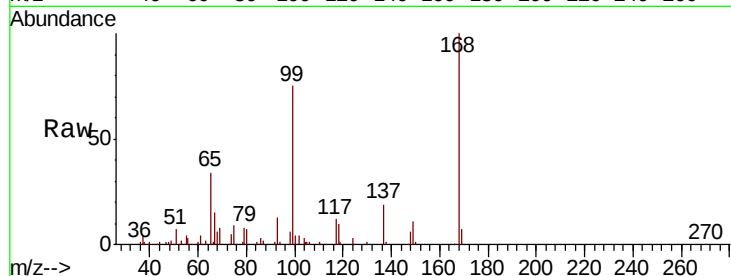
VF0910SBS01

Tot Ion:168 Resp: 162683

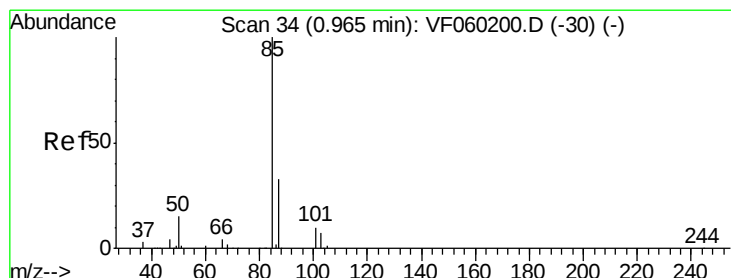
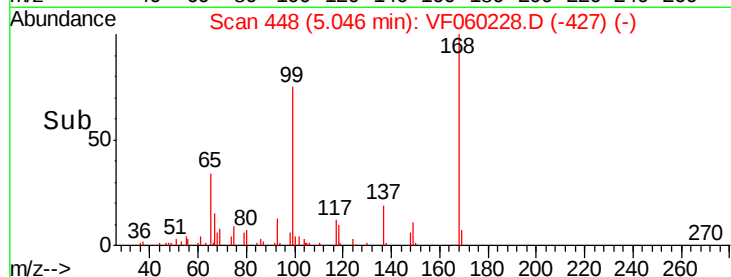
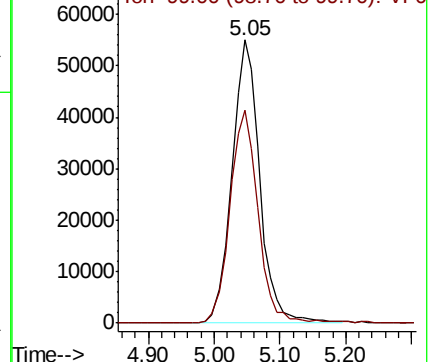
Ion Ratio Lower Upper

168 100

99 75.1 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 23.27 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF060228.D

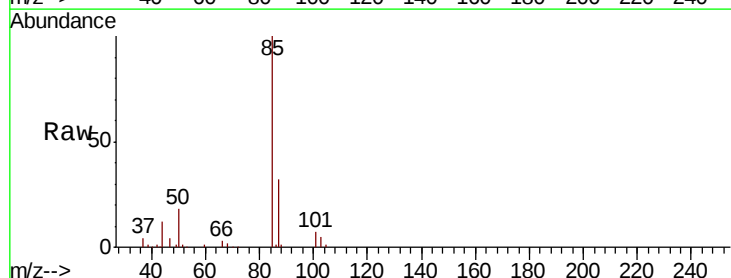
Acq: 10 Sep 2018 12:13

Tgt Ion: 85 Resp: 72164

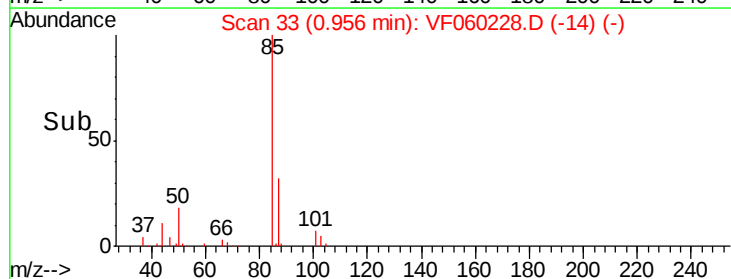
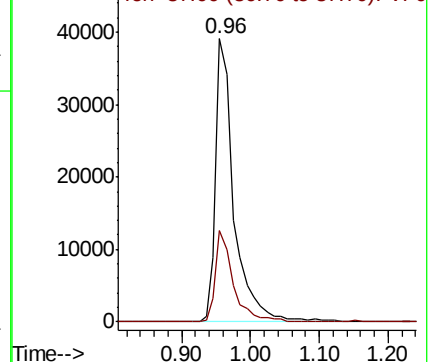
Ion Ratio Lower Upper

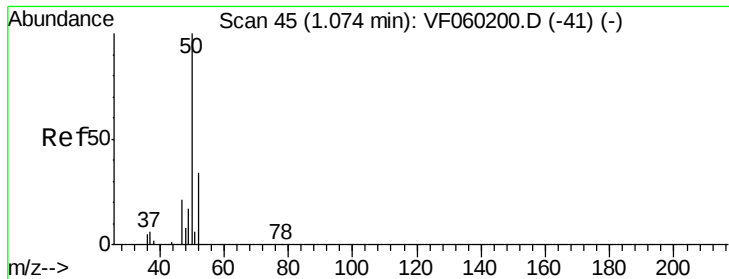
85 100

87 32.3 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 22.83 ug/l

RT: 1.07 min Scan# 45

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

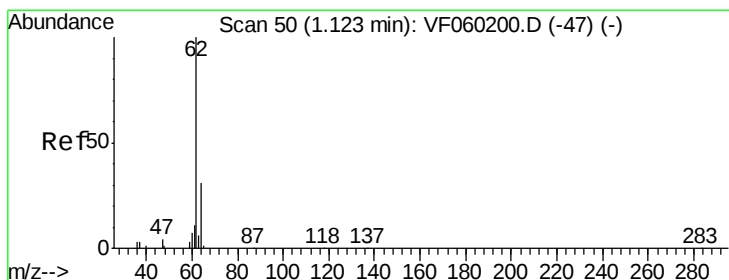
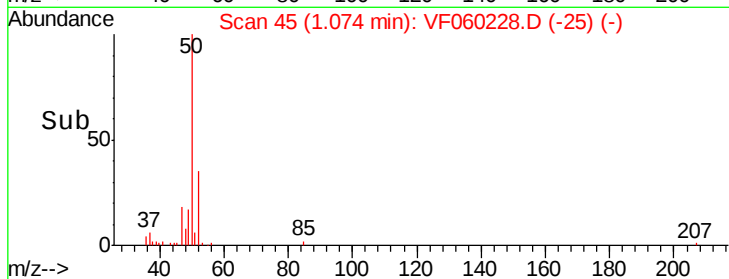
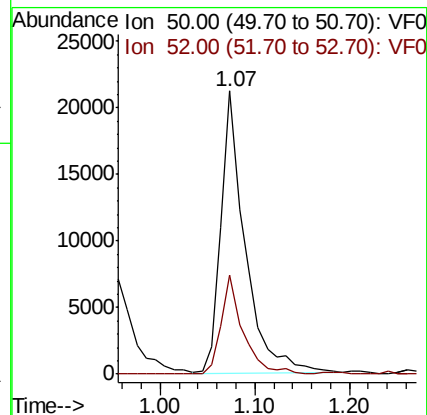
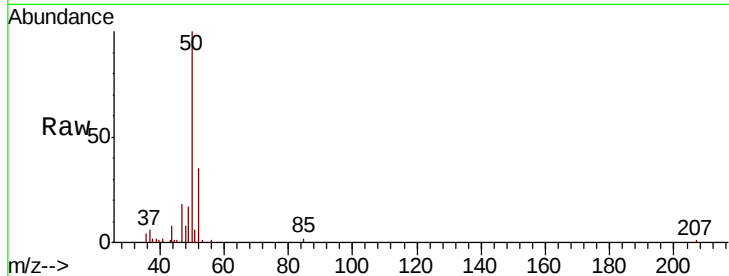
VF0910SBS01

Tot Ion: 50 Resp: 37329

Ion Ratio Lower Upper

50 100

52 35.0 26.9 40.3



#4

Vinyl Chloride

Concen: 24.54 ug/l

RT: 1.12 min Scan# 50

Delta R.T. 0.00 min

Lab File: VF060228.D

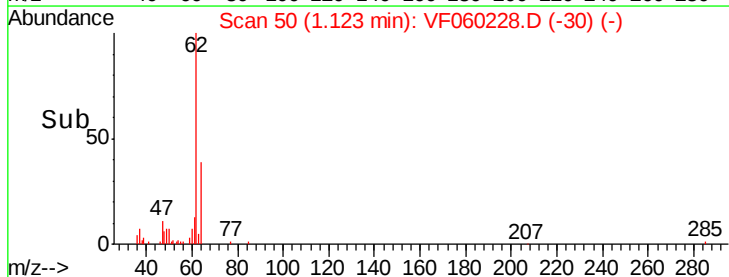
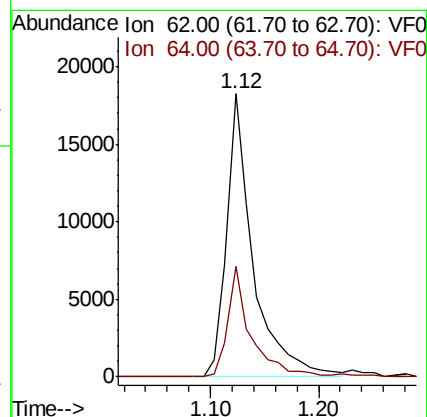
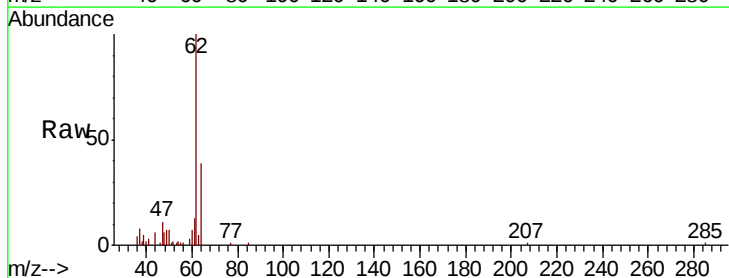
Acq: 10 Sep 2018 12:13

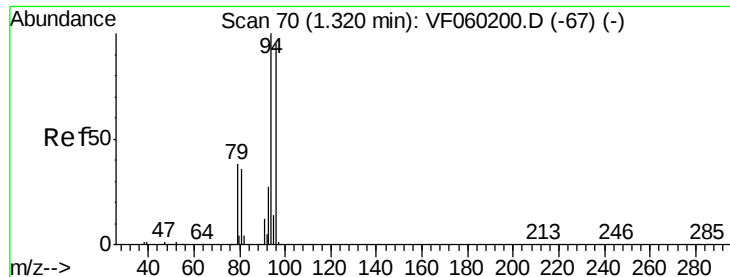
Tgt Ion: 62 Resp: 30929

Ion Ratio Lower Upper

62 100

64 39.1 24.8 37.2#





#5

Bromomethane

Concen: 20.30 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

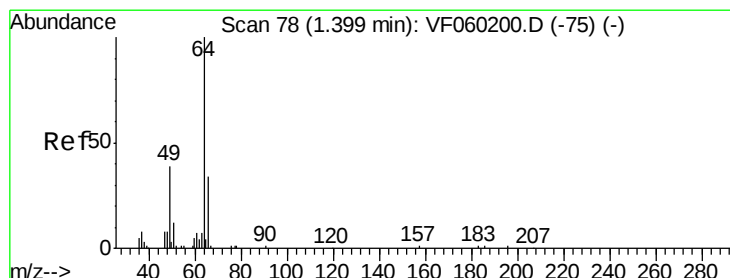
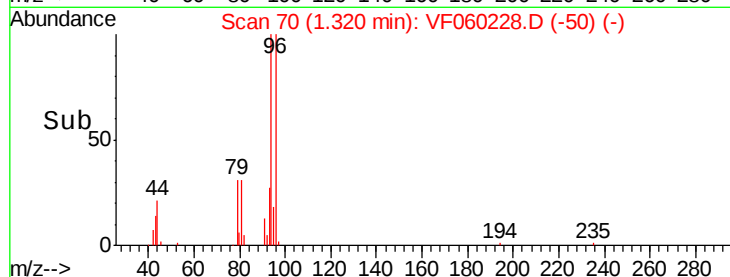
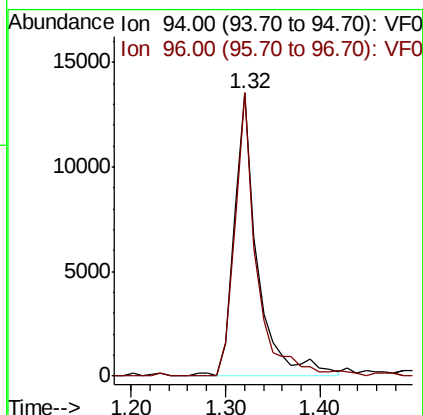
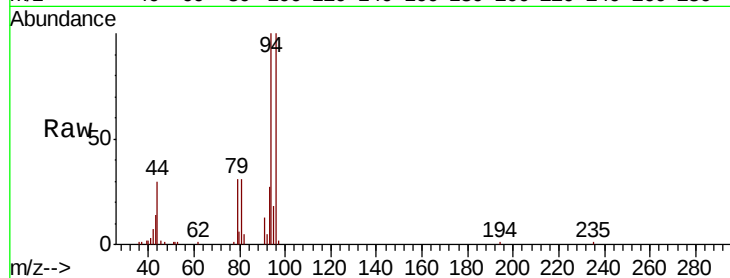
VF0910SBS01

Tot Ion: 94 Resp: 22916

Ion Ratio Lower Upper

94 100

96 99.9 75.8 113.6



#6

Chloroethane

Concen: 19.92 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF060228.D

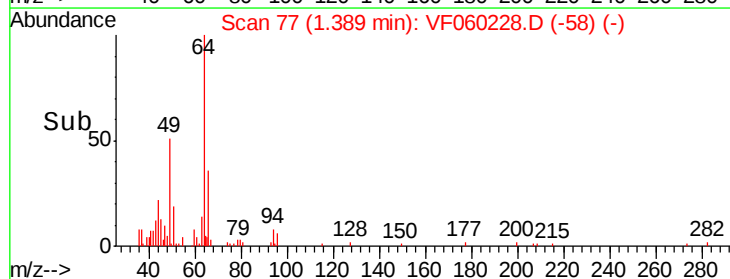
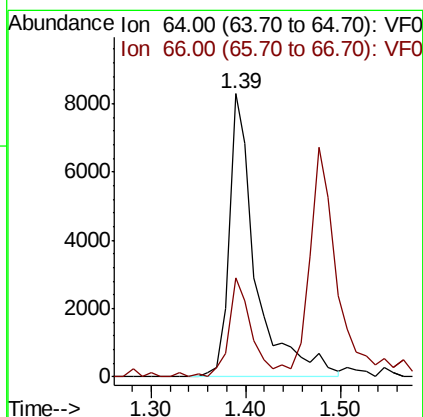
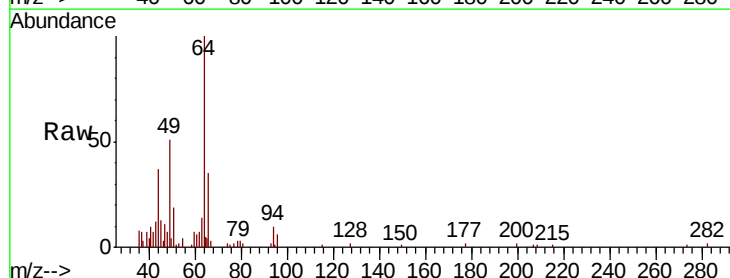
Acq: 10 Sep 2018 12:13

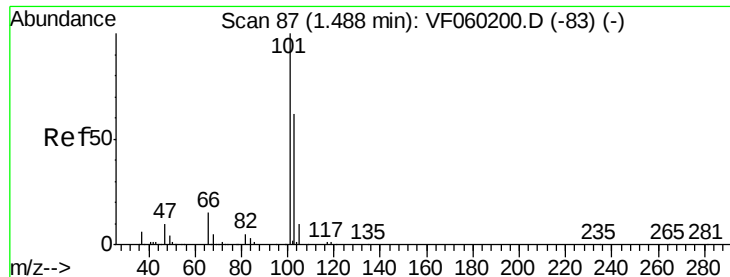
Tgt Ion: 64 Resp: 16078

Ion Ratio Lower Upper

64 100

66 35.1 27.1 40.7





#7

Trichlorofluoromethane

Concen: 25.81 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

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ClientSampleId :

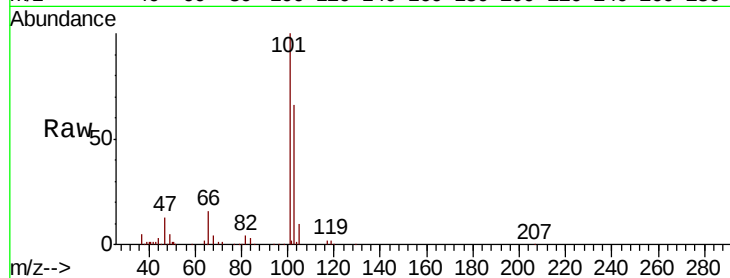
VF0910SBS01

Tot Ion:101 Resp: 90701

Ion Ratio Lower Upper

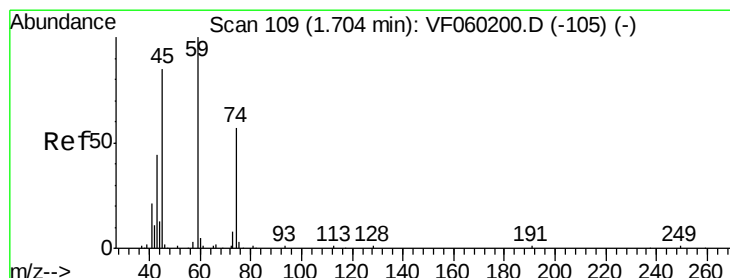
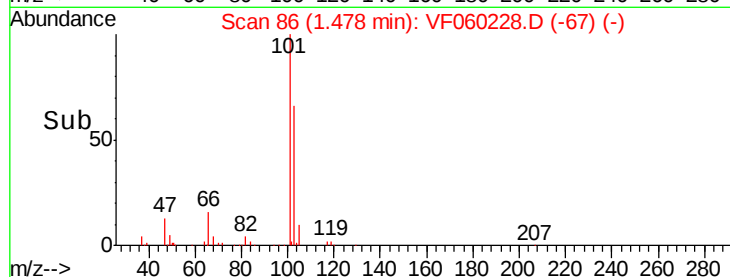
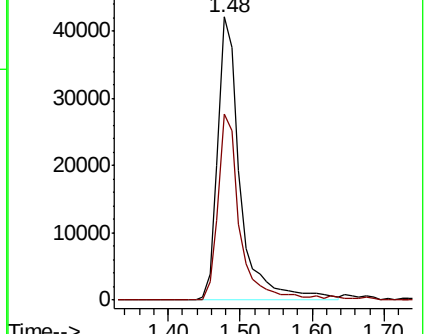
101 100

103 65.8 49.5 74.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 18.90 ug/l

RT: 1.70 min Scan# 109

Delta R.T. 0.00 min

Lab File: VF060228.D

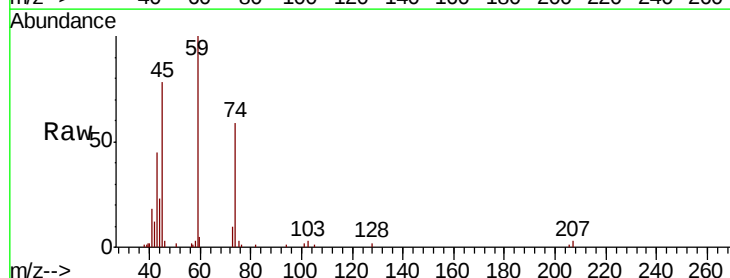
Acq: 10 Sep 2018 12:13

Tgt Ion: 74 Resp: 9819

Ion Ratio Lower Upper

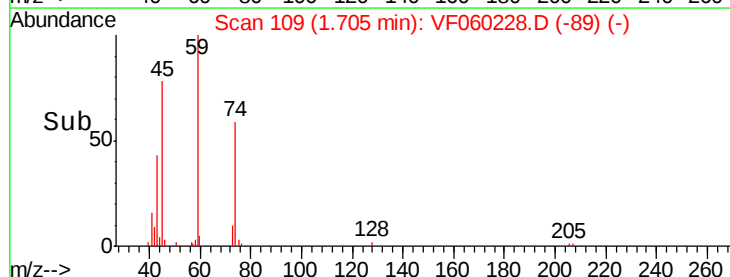
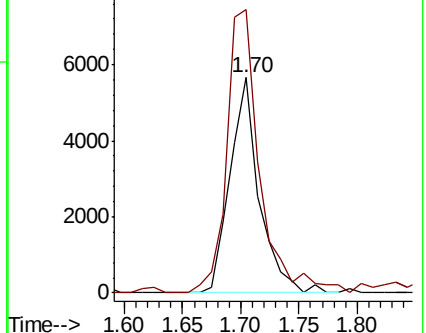
74 100

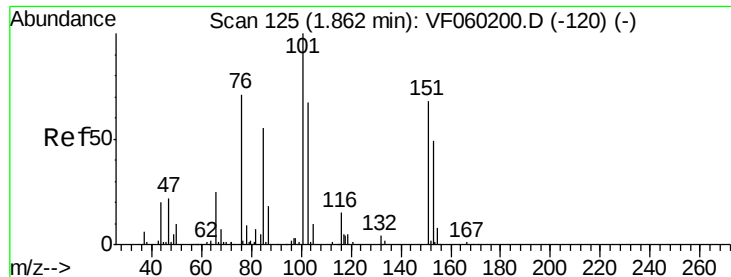
45 131.4 75.3 225.7



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.42 ug/l

RT: 1.86 min Scan# 125

Delta R.T. 0.00 min

Lab File: VF060228.D

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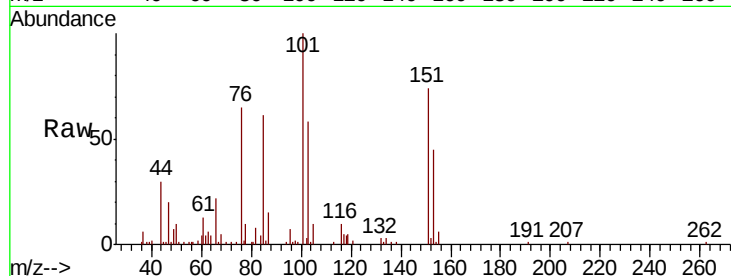
Tot Ion:101 Resp: 40251

Ion Ratio Lower Upper

101 100

85 60.7 43.0 64.4

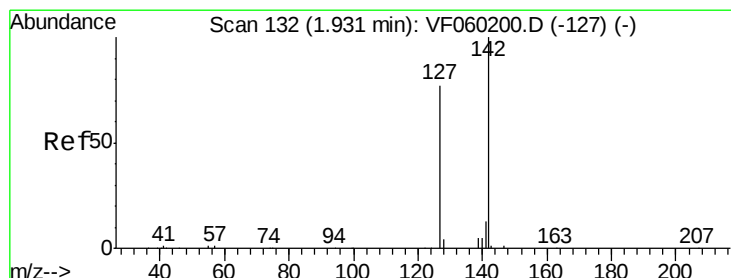
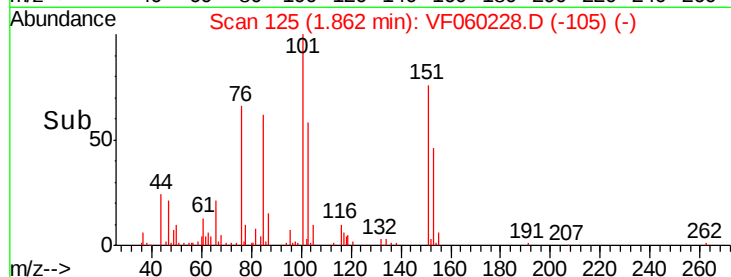
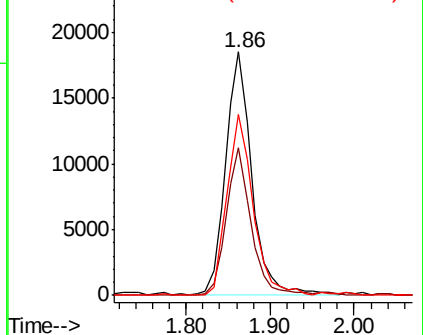
151 74.2 53.6 80.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 19.05 ug/l

RT: 1.93 min Scan# 132

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

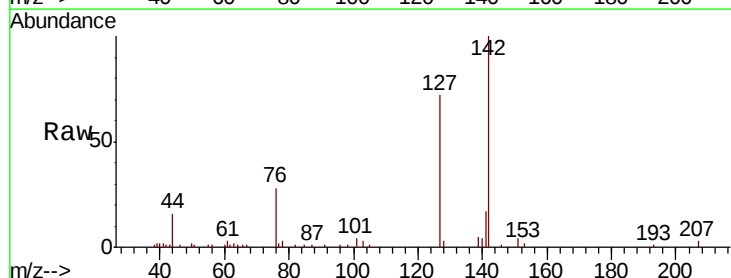
Tgt Ion:142 Resp: 29487

Ion Ratio Lower Upper

142 100

127 72.3 61.1 91.7

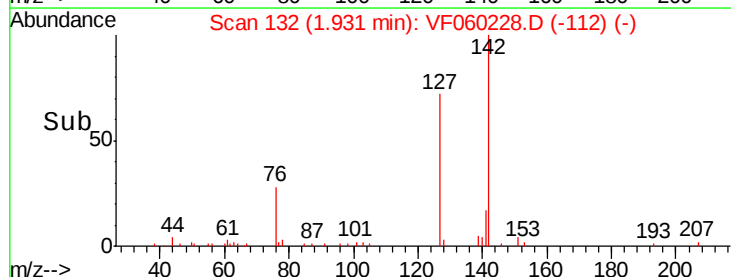
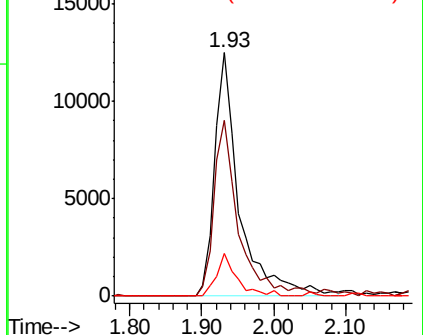
141 17.4 10.6 15.8#

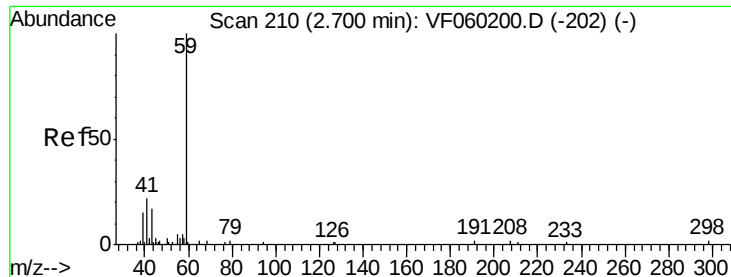


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

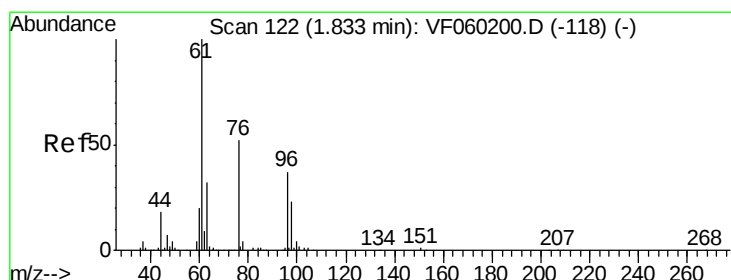
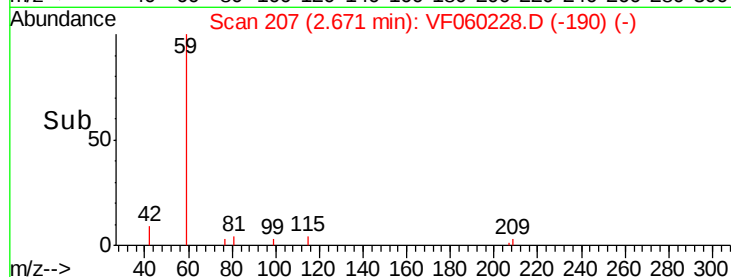
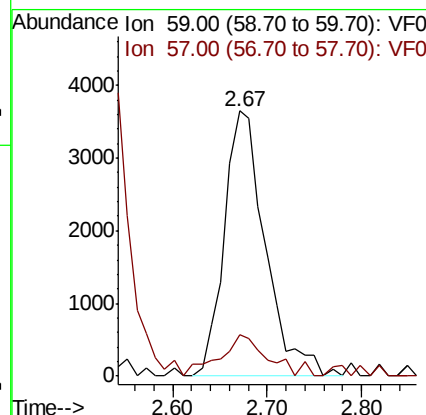
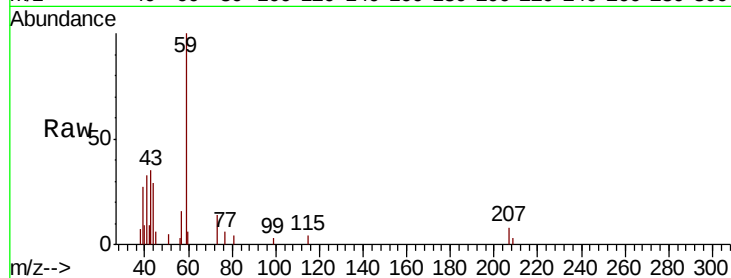




#11
Tert butyl alcohol
Concen: 78.54 ug/l
RT: 2.67 min Scan# 207
Delta R.T. -0.03 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

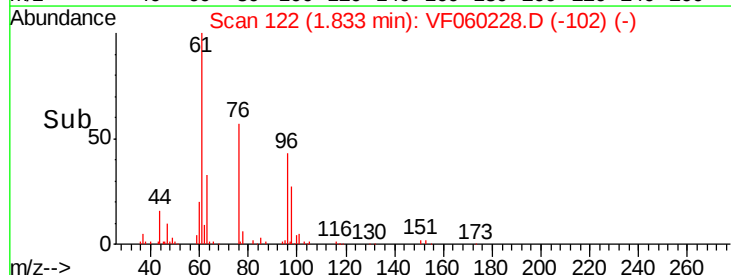
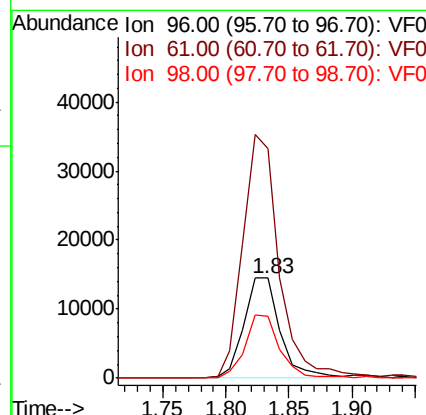
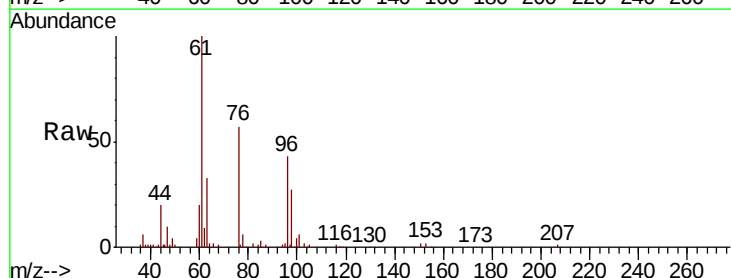
Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

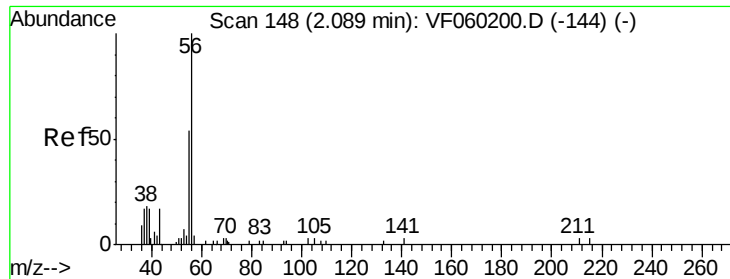
Tot Ion: 59 Resp: 10973
Ion Ratio Lower Upper
59 100
57 15.9 7.2 10.8#



#12
1,1-Dichloroethene
Concen: 24.81 ug/l
RT: 1.83 min Scan# 122
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion: 96 Resp: 29013
Ion Ratio Lower Upper
96 100
61 230.1 214.6 321.8
98 61.8 50.7 76.1





#13

Acrolein

Concen: 89.19 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

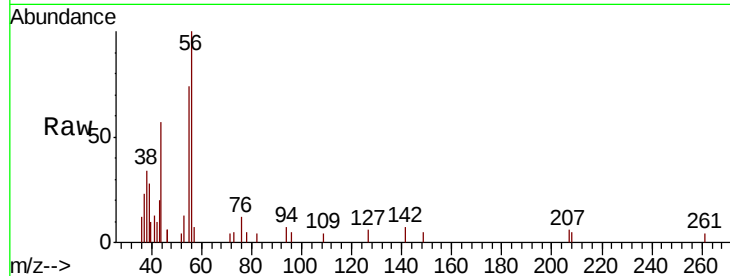
VF0910SBS01

Tot Ion: 56 Resp: 5956

Ion Ratio Lower Upper

56 100

55 74.5 45.1 67.7#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.09

3000

2500

2000

1500

1000

500

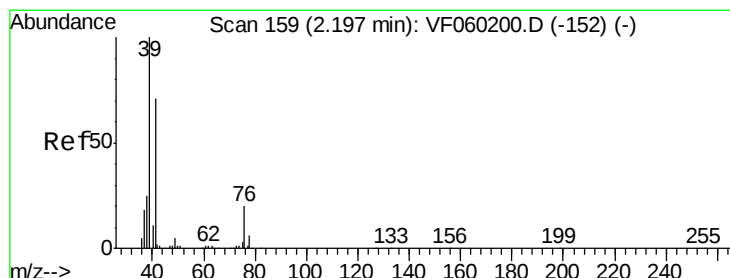
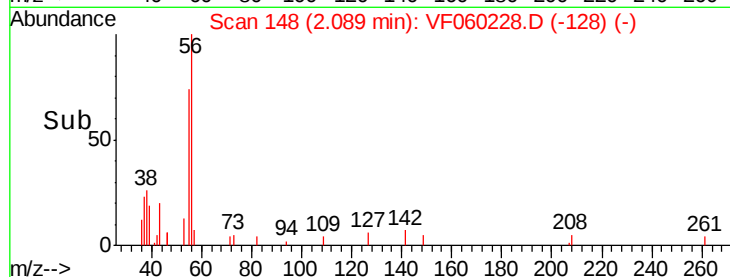
0

Time-->

2.00

2.10

2.20



#14

Allyl chloride

Concen: 27.69 ug/l

RT: 2.19 min Scan# 158

Delta R.T. -0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

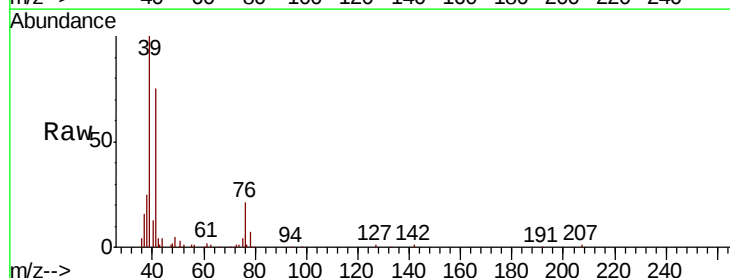
Tgt Ion: 41 Resp: 48553

Ion Ratio Lower Upper

41 100

39 133.3 112.2 168.2

76 28.3 23.2 34.8



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

40000

30000

20000

10000

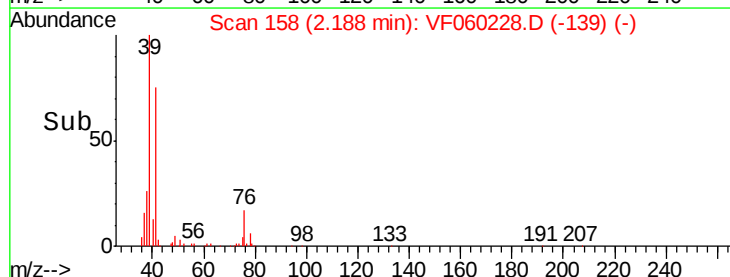
0

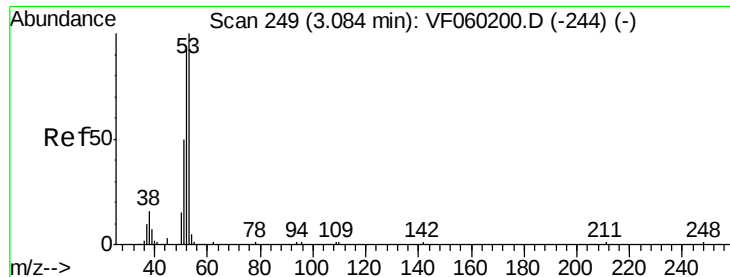
Time-->

2.10

2.20

2.30





#15

Acrylonitrile

Concen: 112.97 ug/l

RT: 3.07 min Scan# 248

Delta R.T. -0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

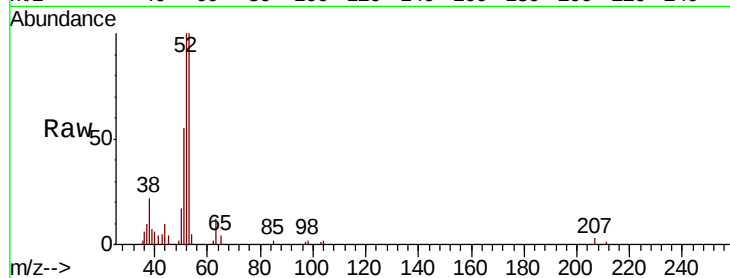
Tot Ion: 53 Resp: 24410

Ion Ratio Lower Upper

53 100

52 99.7 75.0 112.6

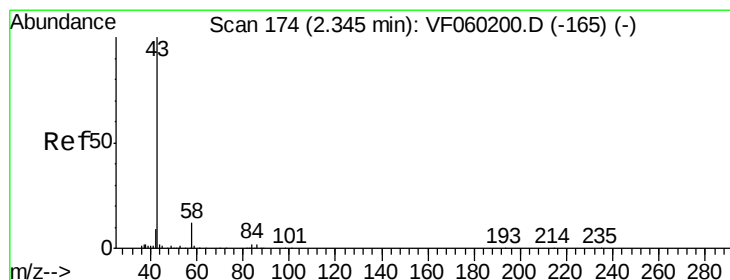
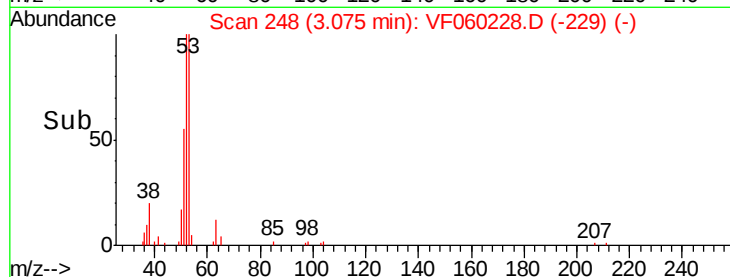
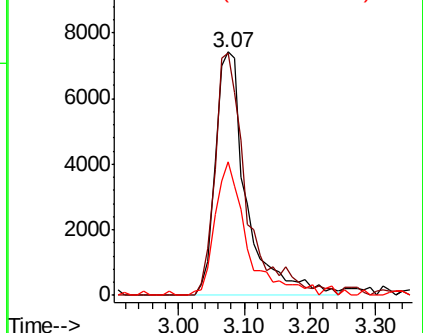
51 54.8 39.9 59.9



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: 86.30 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060228.D

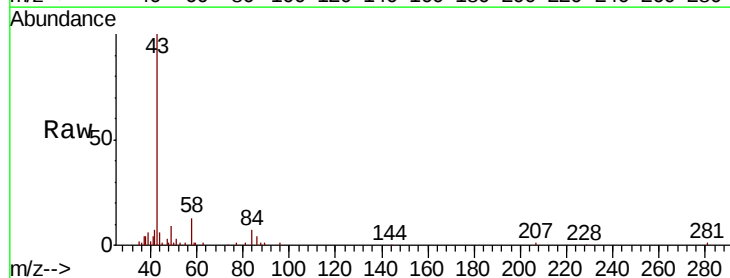
Acq: 10 Sep 2018 12:13

Tgt Ion: 43 Resp: 62469

Ion Ratio Lower Upper

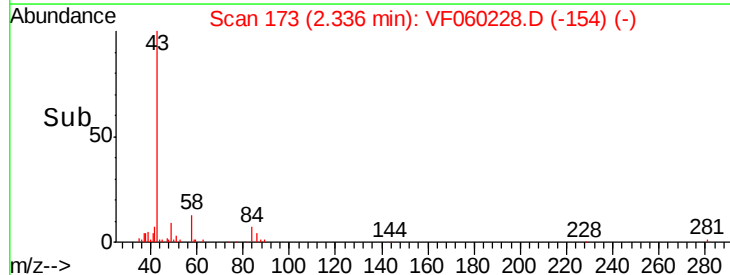
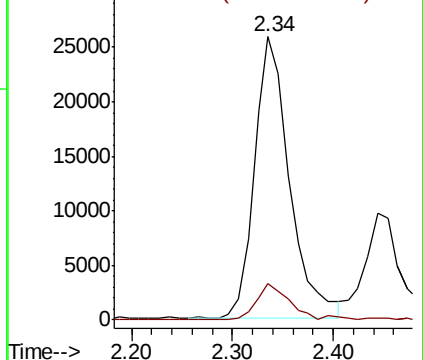
43 100

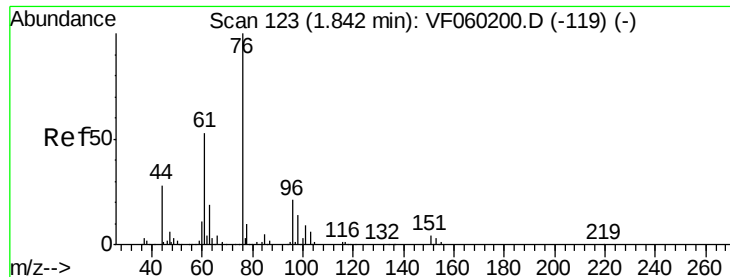
58 13.0 9.7 14.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

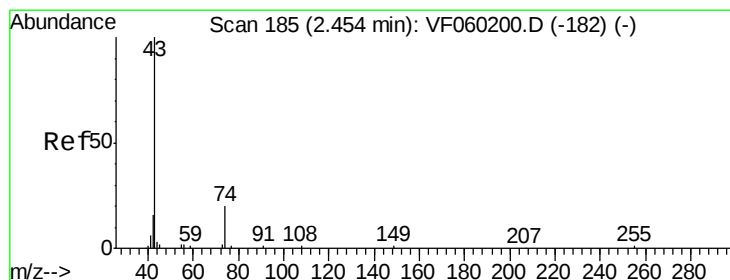
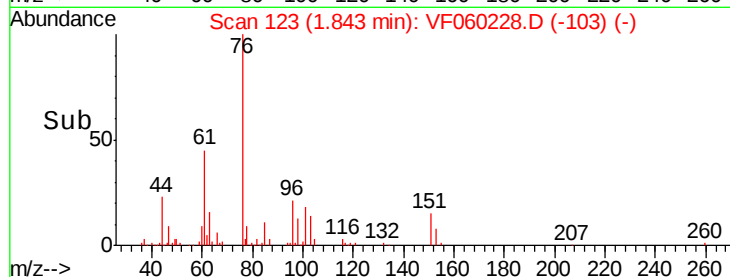
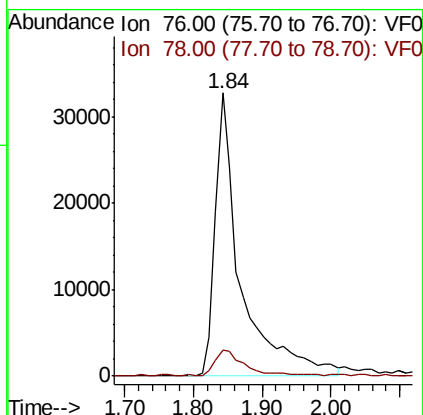
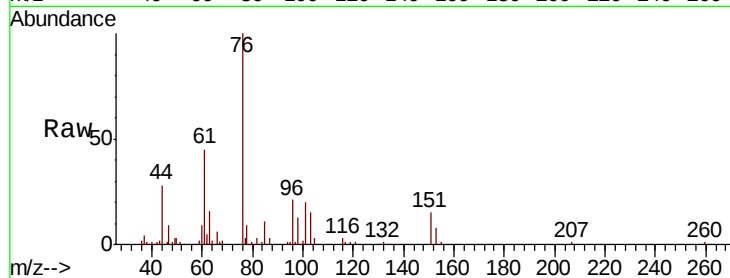




#17
Carbon Disulfide
Concen: 24.82 ug/l
RT: 1.84 min Scan# 123
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

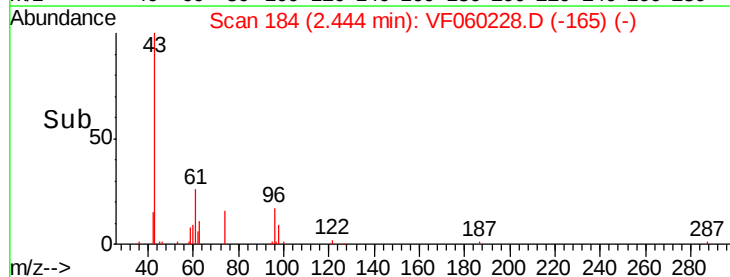
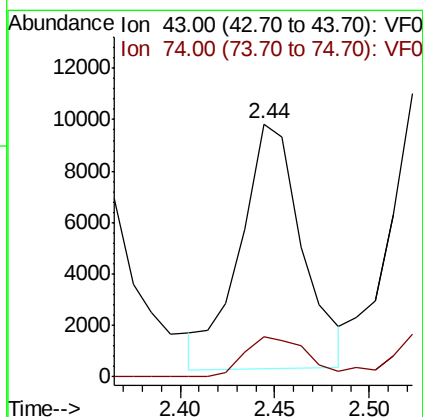
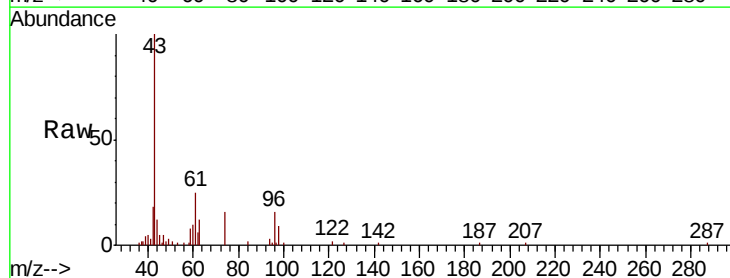
Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

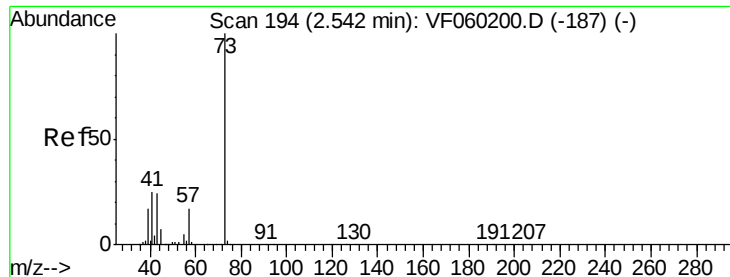
Tot Ion: 76 Resp: 84602
Ion Ratio Lower Upper
76 100
78 9.3 8.5 12.7



#18
Methyl Acetate
Concen: 22.66 ug/l
RT: 2.44 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion: 43 Resp: 21760
Ion Ratio Lower Upper
43 100
74 15.9 11.9 17.9

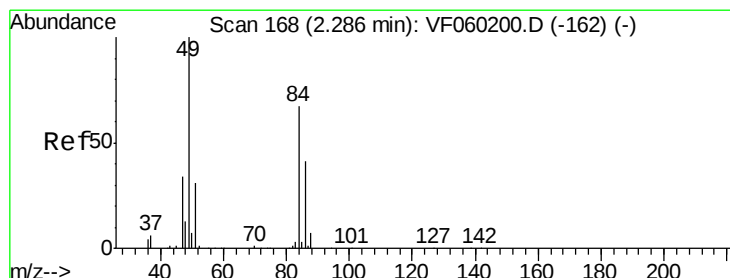
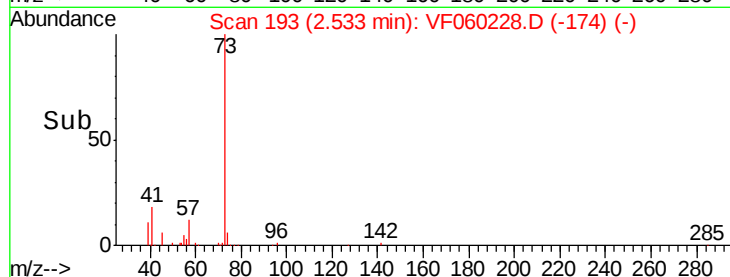
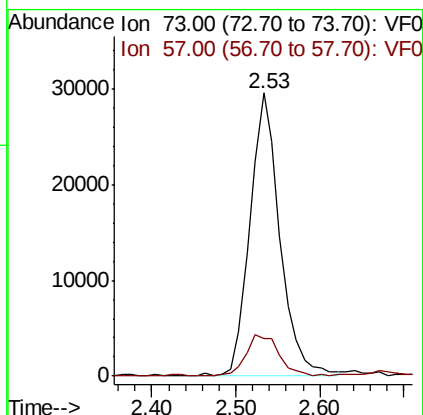
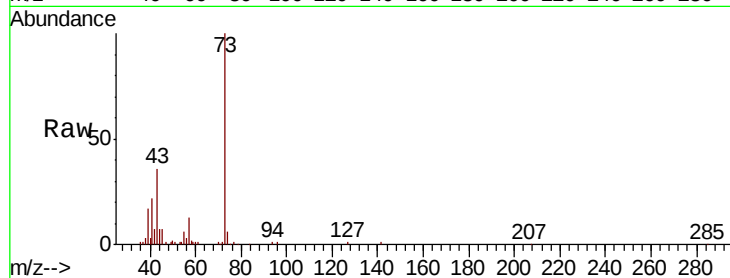




#19
Methvl tert-butvl Ether
Concen: 19.21 ug/l
RT: 2.53 min Scan# 193
Delta R.T. -0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

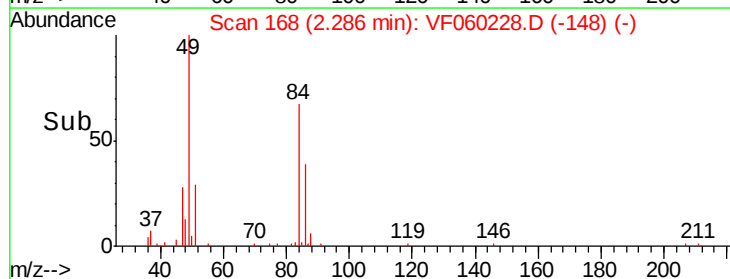
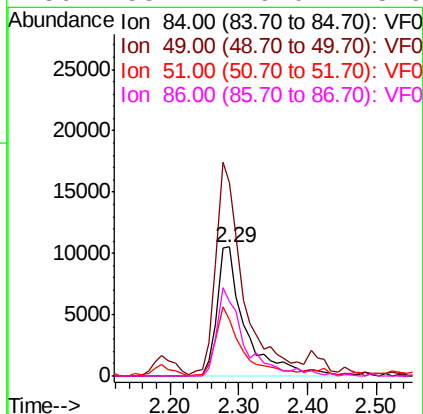
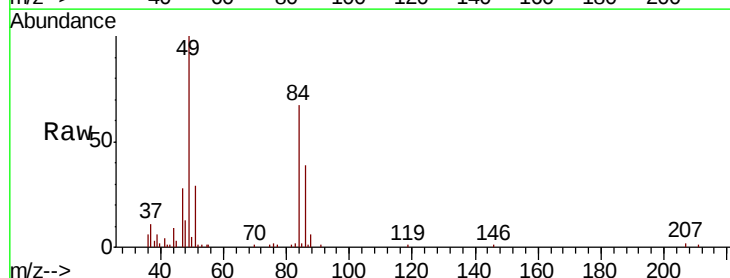
Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

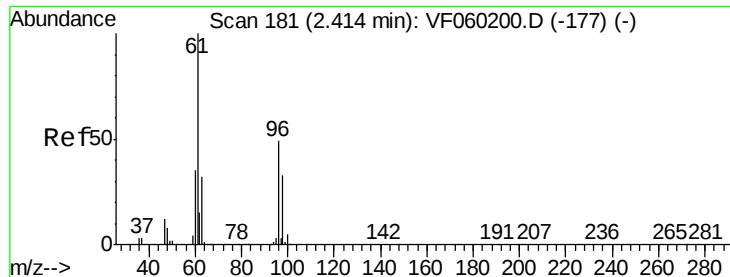
Tot Ion: 73 Resp: 74316
Ion Ratio Lower Upper
73 100
57 13.1 14.3 21.5#



#20
Methylene Chloride
Concen: 15.29 ug/l
RT: 2.29 min Scan# 168
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion: 84 Resp: 29813
Ion Ratio Lower Upper
84 100
49 150.1 120.1 180.1
51 44.1 37.0 55.6
86 58.1 49.0 73.6





#21

trans-1,2-Dichloroethene

Concen: 23.73 ug/l

RT: 2.41 min Scan# 181

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

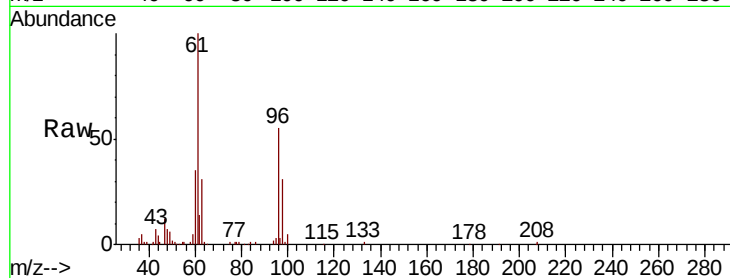
Tot Ion: 96 Resp: 28386

Ion Ratio Lower Upper

96 100

61 181.9 163.1 244.7

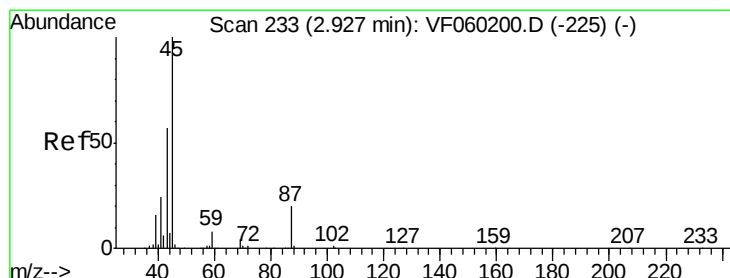
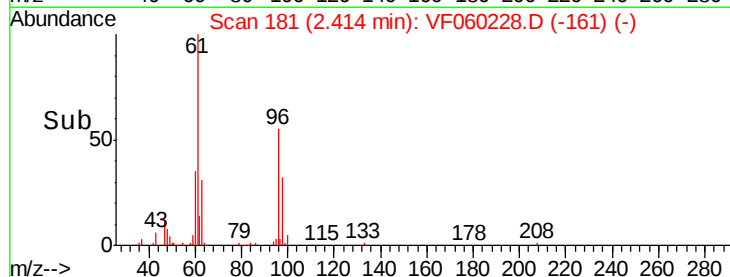
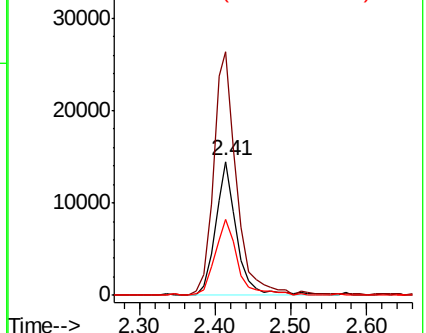
98 58.9 54.1 81.1



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



#22

Diisopropyl ether

Concen: 21.56 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Tgt Ion: 45 Resp: 94735

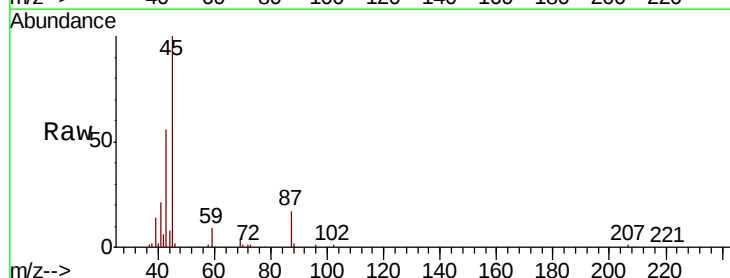
Ion Ratio Lower Upper

45 100

43 56.5 46.2 69.4

87 17.5 16.1 24.1

59 9.3 6.5 9.7

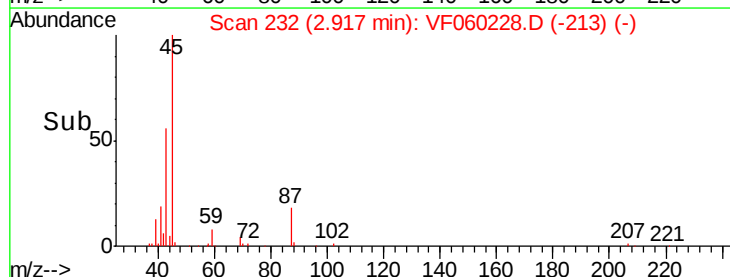
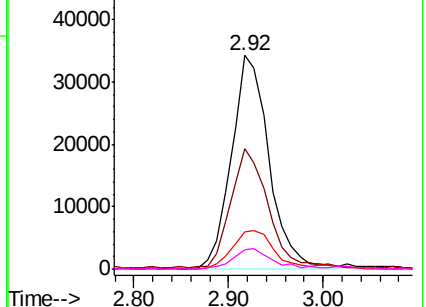


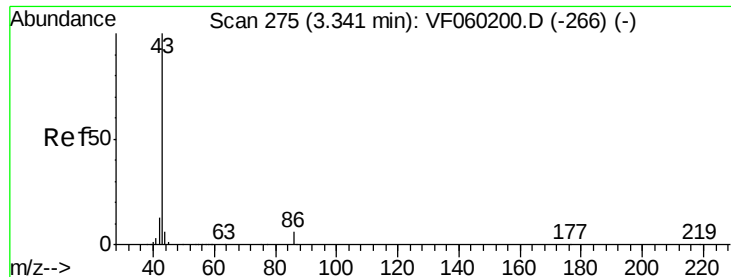
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 83.06 ug/l

RT: 3.33 min Scan# 274

Delta R.T. -0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

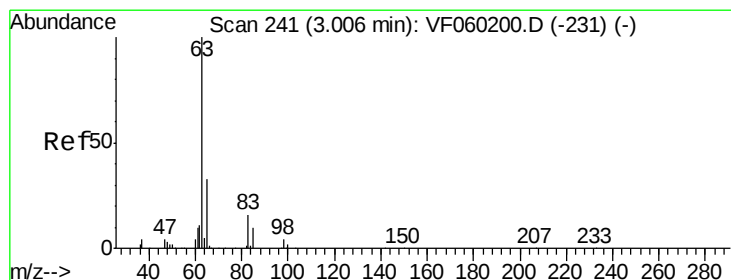
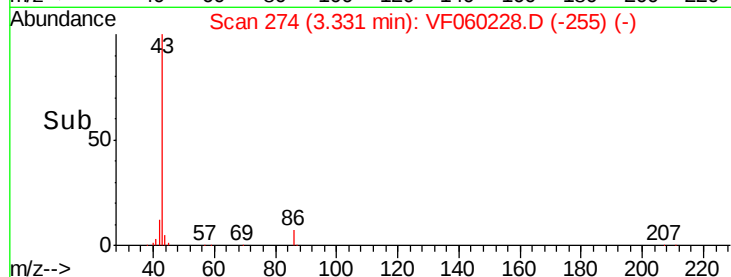
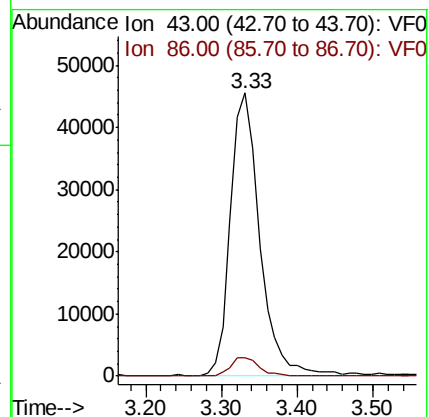
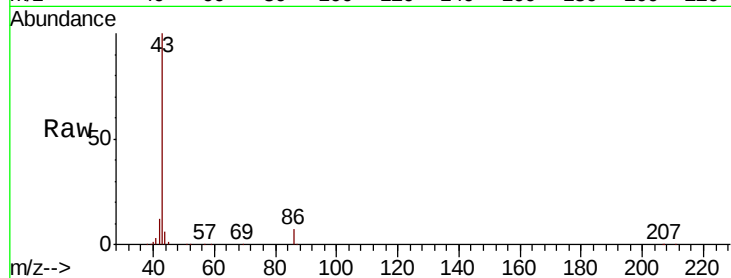
VF0910SBS01

Tot Ion: 43 Resp: 122926

Ion Ratio Lower Upper

43 100

86 6.5 4.8 7.2



#24

1,1-Dichloroethane

Concen: 27.33 ug/l

RT: 3.00 min Scan# 240

Delta R.T. -0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

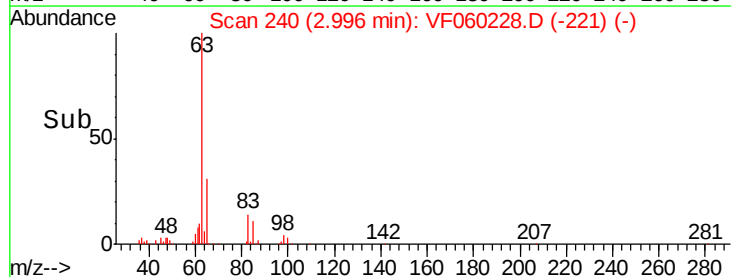
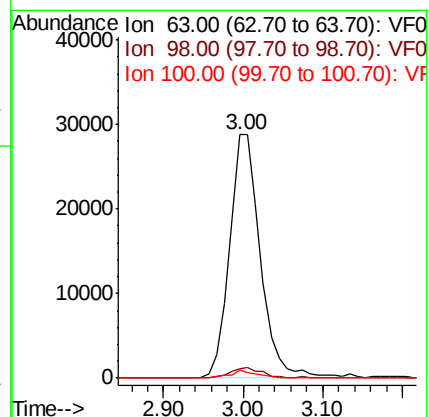
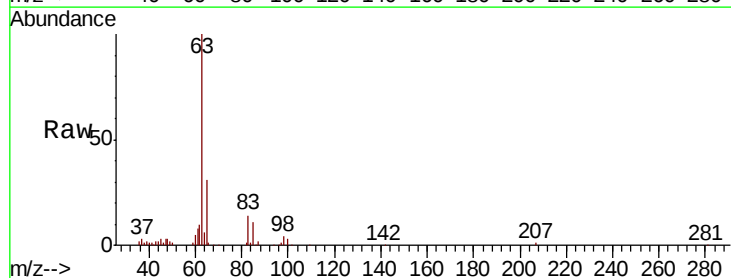
Tgt Ion: 63 Resp: 78132

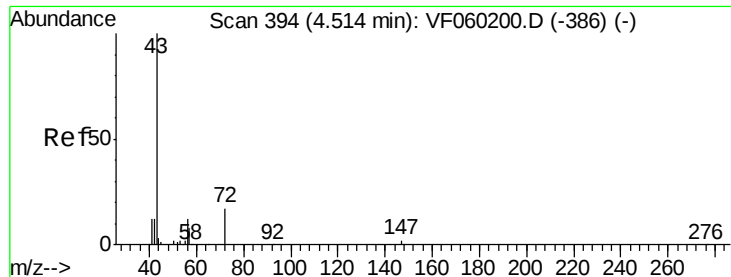
Ion Ratio Lower Upper

63 100

98 3.8 1.9 5.7

100 3.5 1.1 3.1#





#25

2-Butanone

Concen: 88.51 ug/l

RT: 4.50 min Scan# 393

Delta R.T. -0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

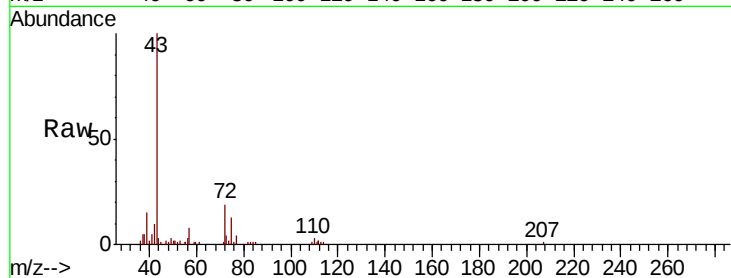
VF0910SBS01

Tot Ion: 43 Resp: 70699

Ion Ratio Lower Upper

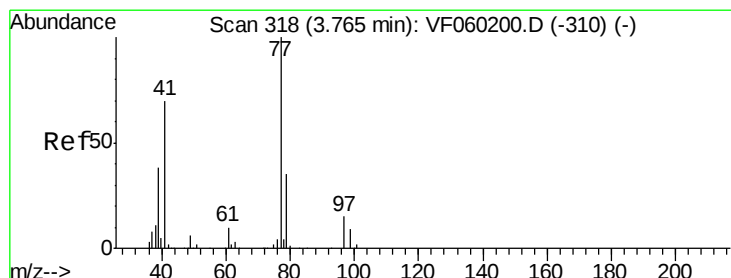
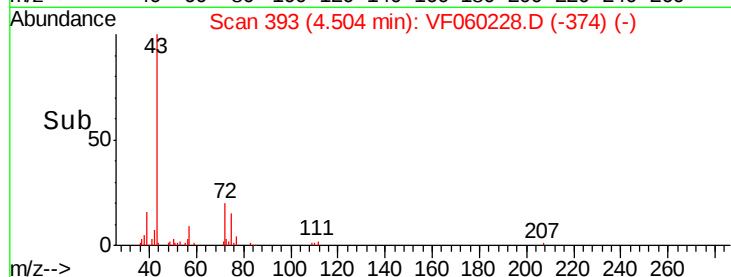
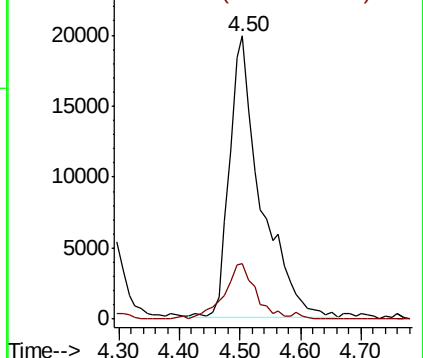
43 100

72 19.4 14.8 22.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 19.04 ug/l

RT: 3.76 min Scan# 318

Delta R.T. 0.00 min

Lab File: VF060228.D

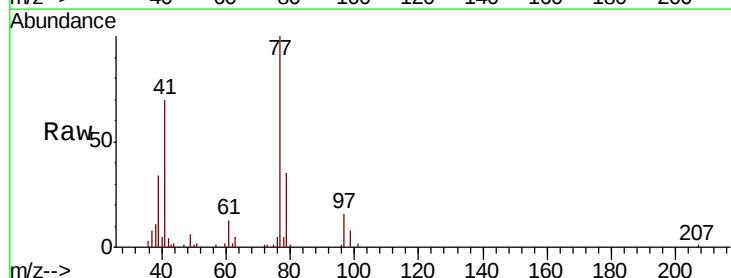
Acq: 10 Sep 2018 12:13

Tgt Ion: 77 Resp: 70358

Ion Ratio Lower Upper

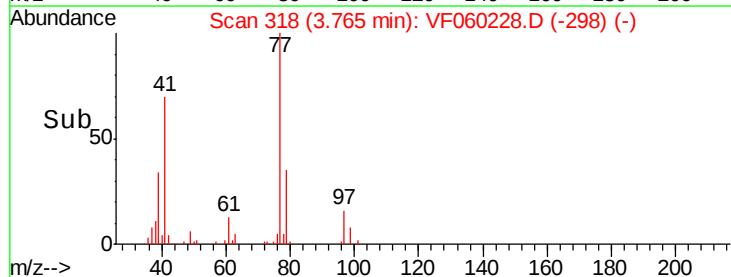
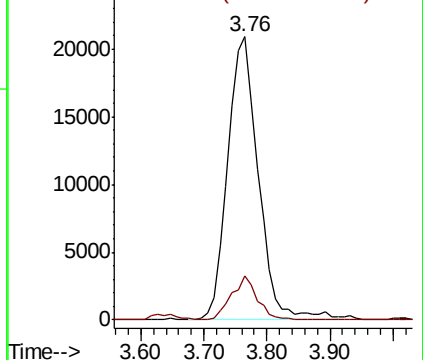
77 100

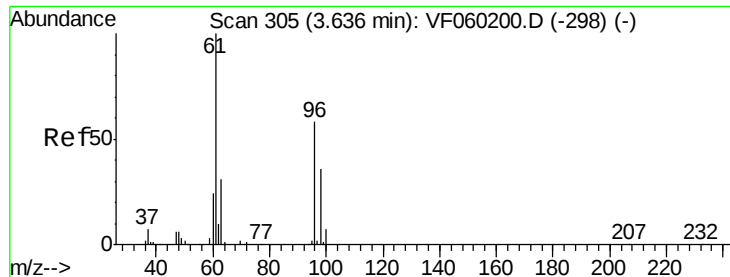
97 15.5 7.5 22.5



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

cis-1,2-Dichloroethene

Concen: 23.22 ug/l

RT: 3.64 min Scan# 305

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

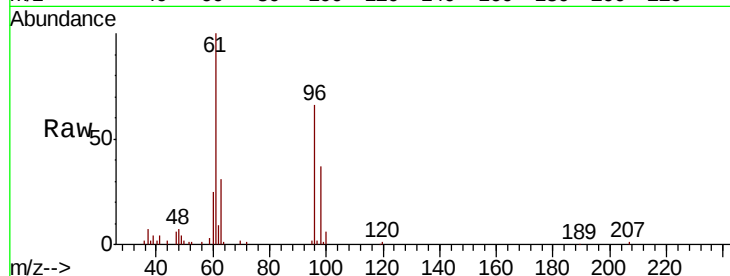
Tot Ion: 96 Resp: 36256

Ion Ratio Lower Upper

96 100

61 151.3 0.0 345.2

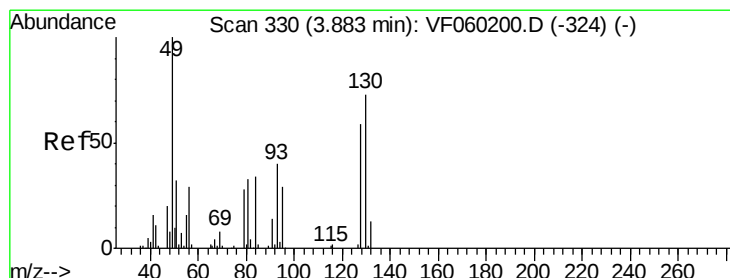
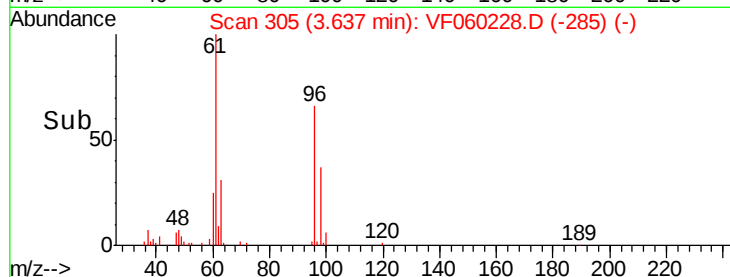
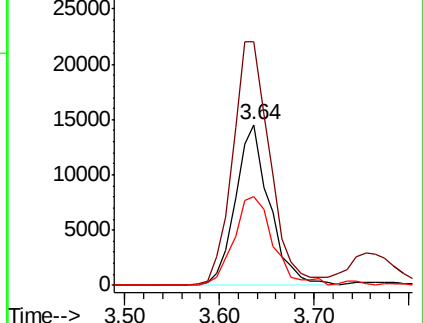
98 55.4 0.0 124.6



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



#28

Bromochloromethane

Concen: 21.96 ug/l

RT: 3.89 min Scan# 331

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

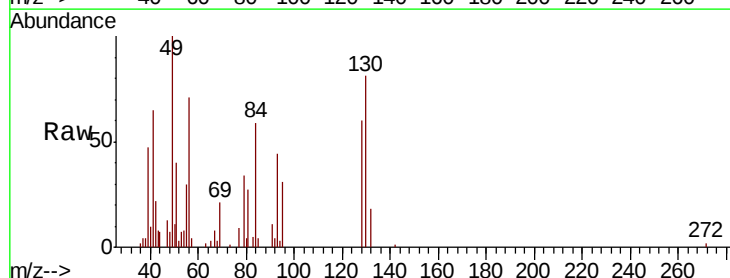
Tgt Ion: 49 Resp: 21377

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

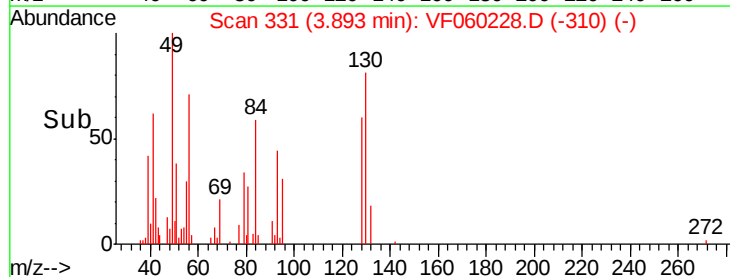
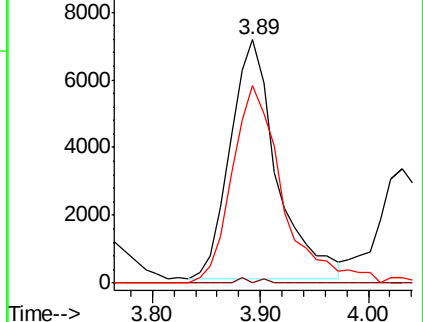
130 81.2 57.8 86.6

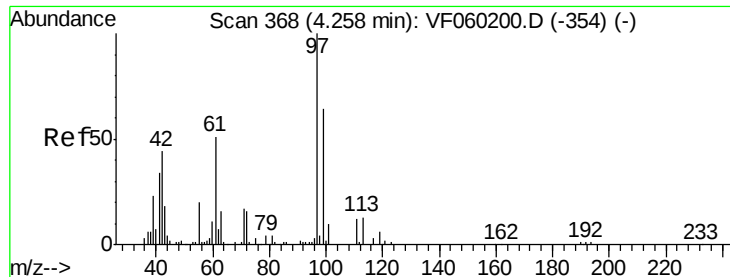


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 96.33 ug/l

RT: 4.25 min Scan# 367

Delta R.T. -0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

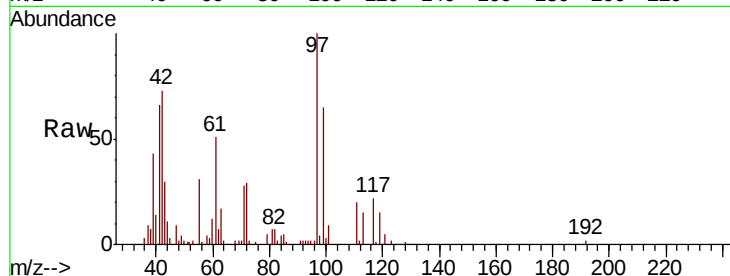
Tot Ion: 42 Resp: 25439

Ion Ratio Lower Upper

42 100

72 39.3 27.4 41.0

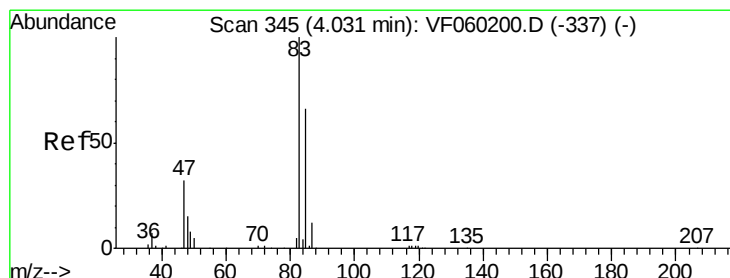
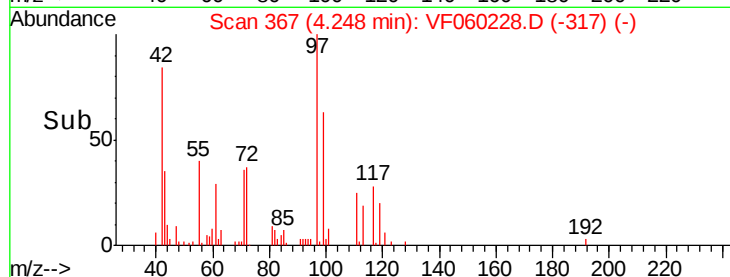
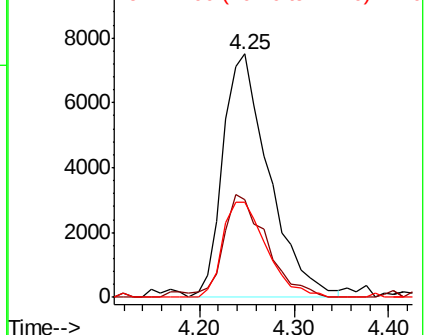
71 37.2 28.5 42.7



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 21.41 ug/l

RT: 4.03 min Scan# 345

Delta R.T. 0.00 min

Lab File: VF060228.D

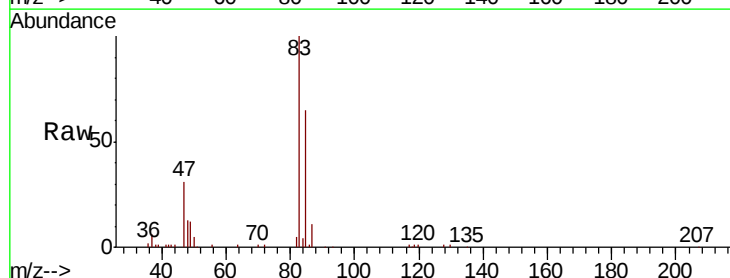
Acq: 10 Sep 2018 12:13

Tgt Ion: 83 Resp: 89661

Ion Ratio Lower Upper

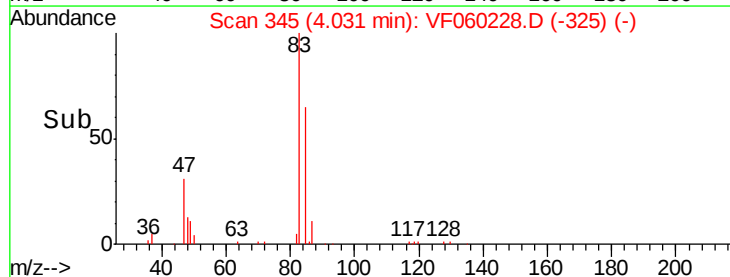
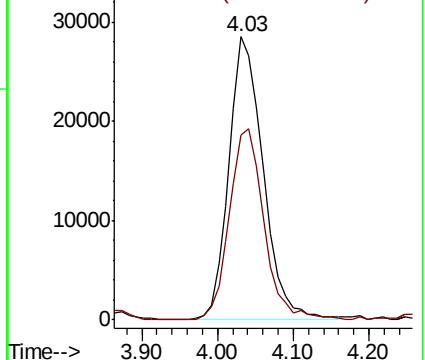
83 100

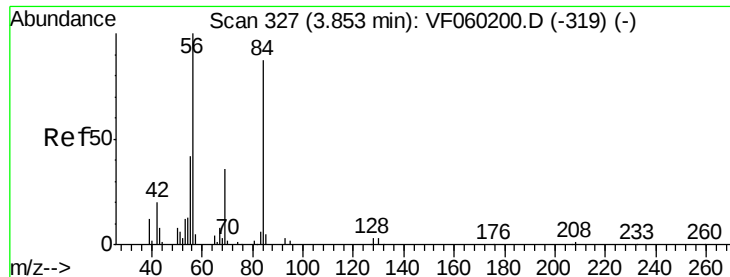
85 65.1 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

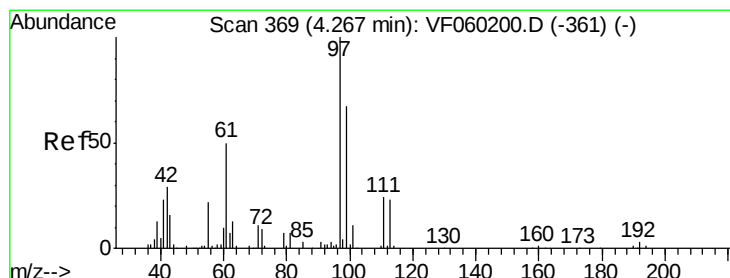
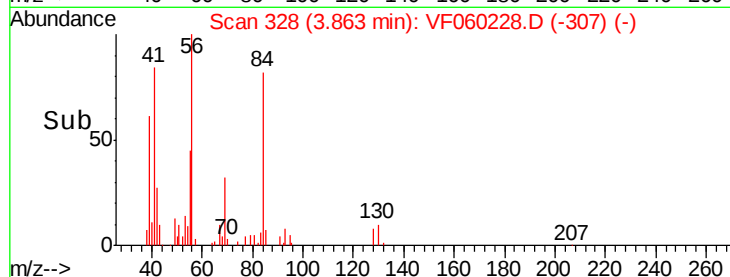
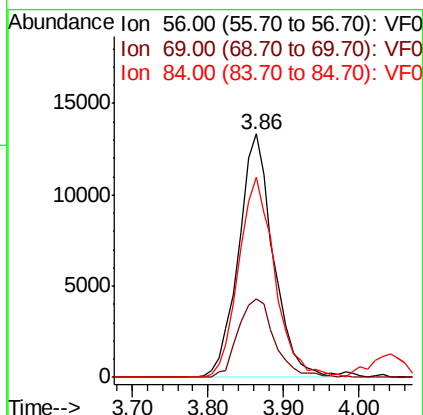
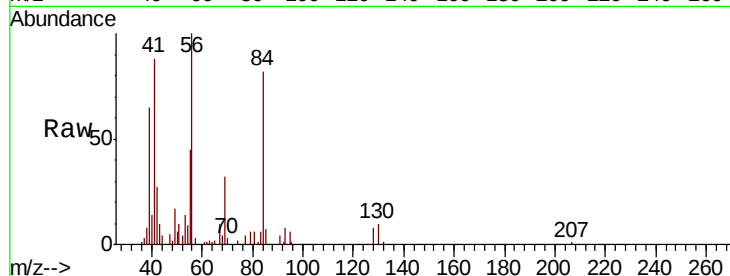




#31
Cyclohexane
Concen: 21.76 ug/l
RT: 3.86 min Scan# 328
Delta R.T. 0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

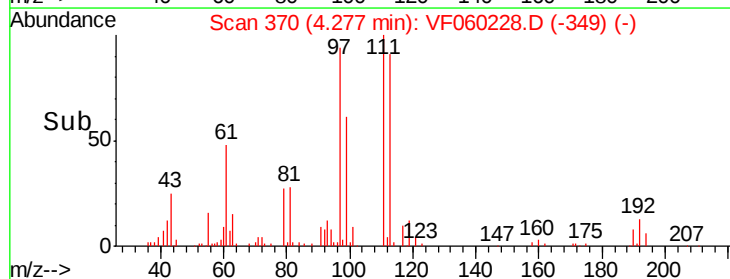
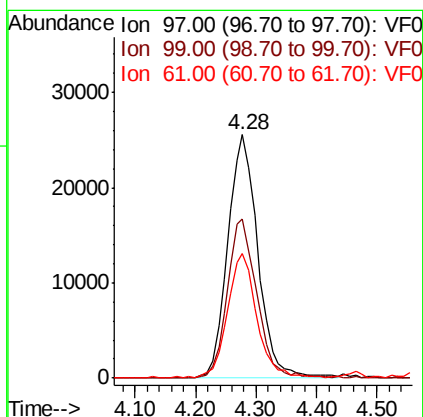
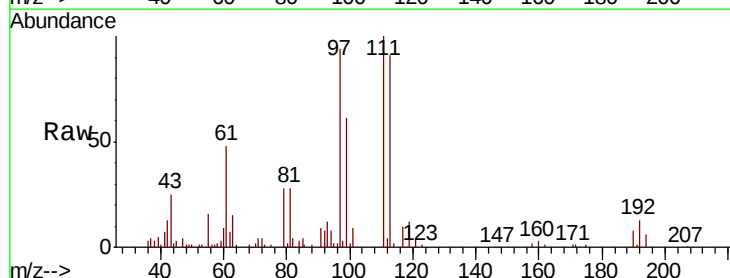
Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

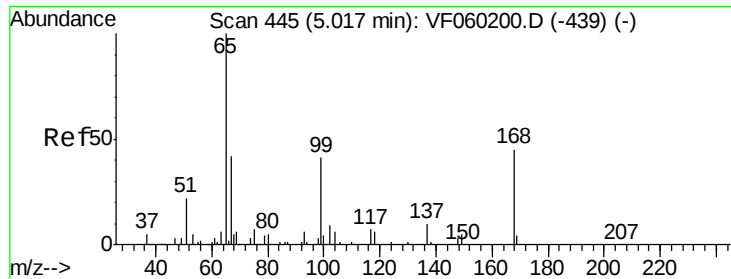
Tot Ion: 56 Resp: 42549
Ion Ratio Lower Upper
56 100
69 32.2 28.7 43.1
84 81.9 69.7 104.5



#32
1,1,1-Trichloroethane
Concen: 21.10 ug/l
RT: 4.28 min Scan# 370
Delta R.T. 0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion: 97 Resp: 88035
Ion Ratio Lower Upper
97 100
99 65.2 53.5 80.3
61 51.4 40.4 60.6

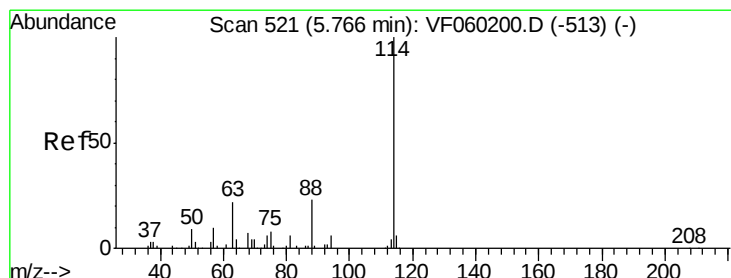
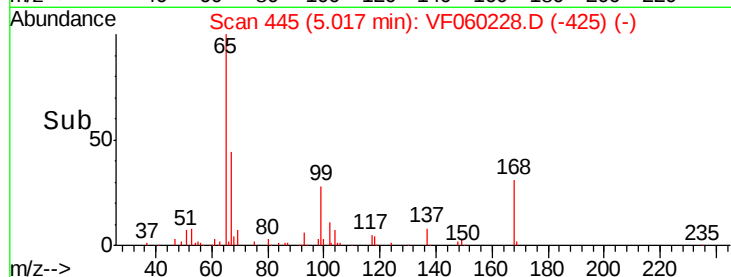
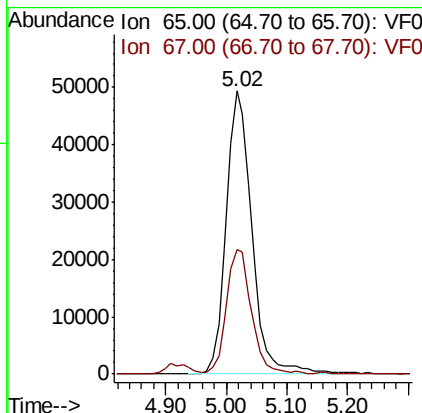
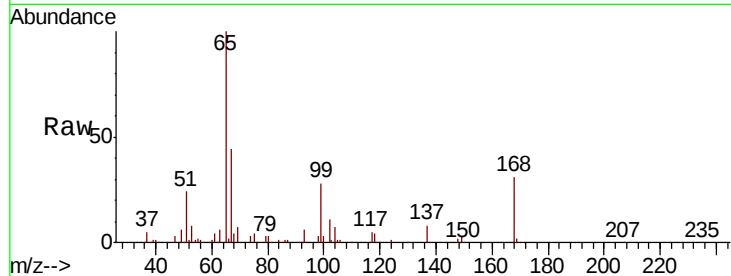




#33
 1,2-Dichloroethane-d4
 Concen: 51.10 ug/l
 RT: 5.02 min Scan# 445
 Delta R.T. 0.00 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

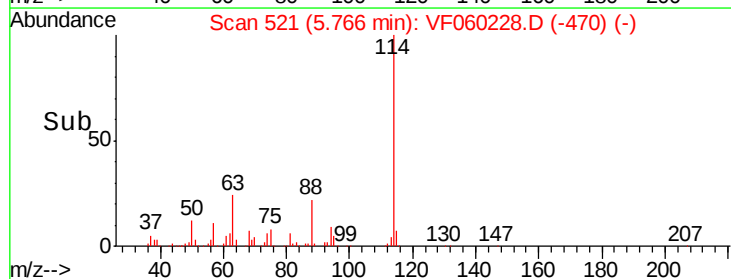
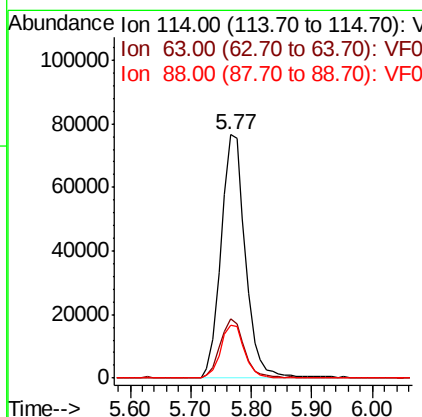
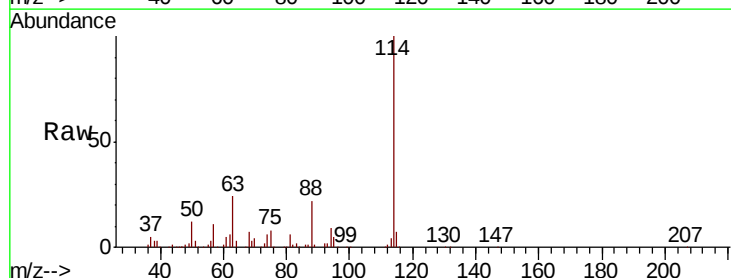
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBS01

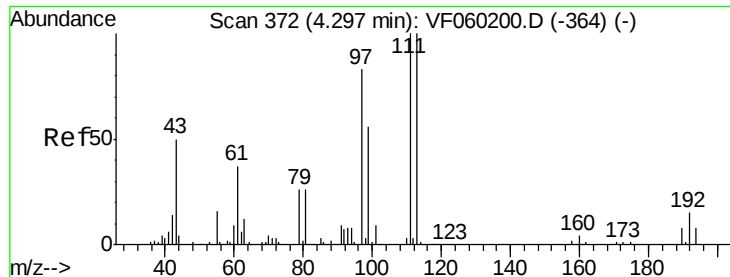
Tot Ion: 65 Resp: 145219
 Ion Ratio Lower Upper
 65 100
 67 44.2 0.0 87.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.77 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

Tgt Ion: 114 Resp: 215510
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 45.6
 88 21.5 0.0 46.4





#35

Dibromofluoromethane

Concen: 53.75 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

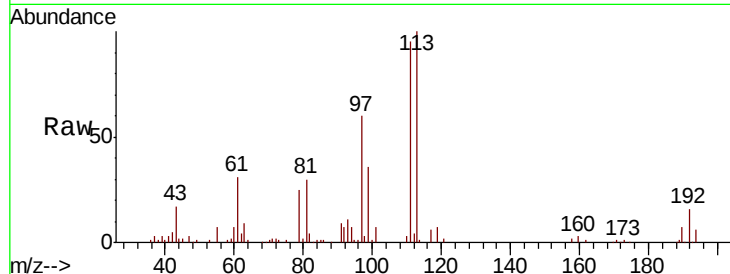
Tot Ion:113 Resp: 113478

Ion Ratio Lower Upper

113 100

111 95.3 80.2 120.2

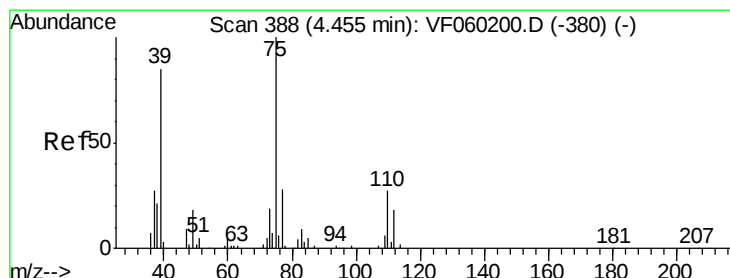
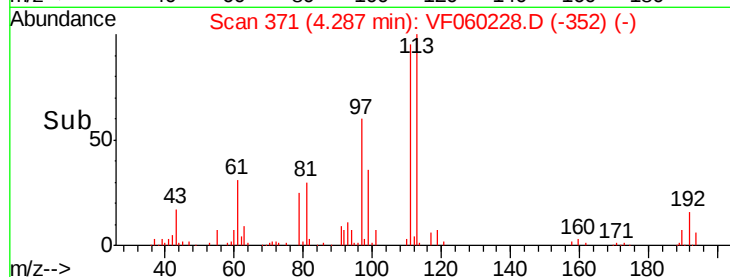
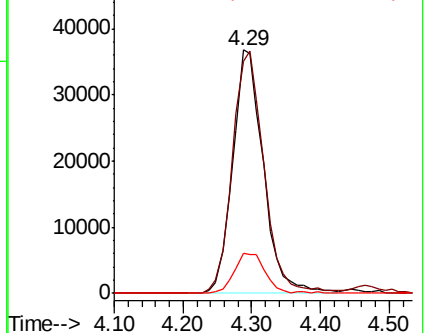
192 16.3 11.8 17.8



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: 23.00 ug/l

RT: 4.45 min Scan# 388

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

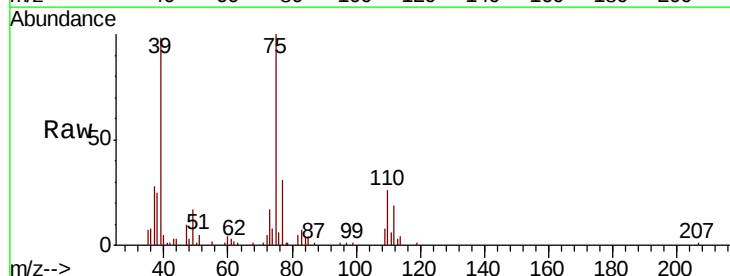
Tgt Ion: 75 Resp: 58344

Ion Ratio Lower Upper

75 100

110 26.1 13.6 40.7

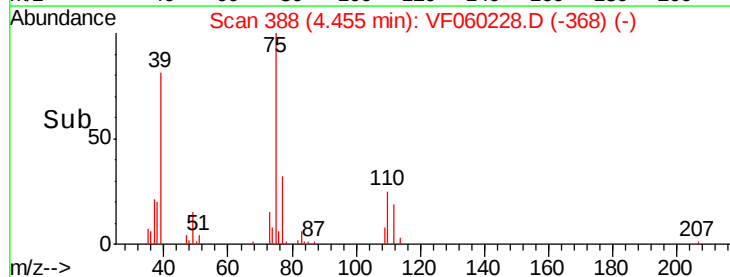
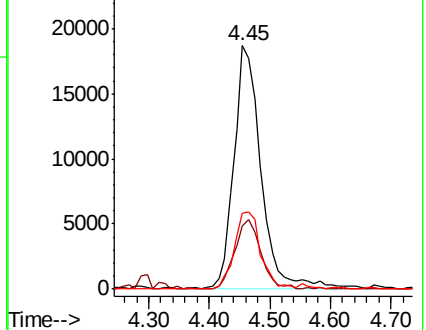
77 31.4 22.7 34.1

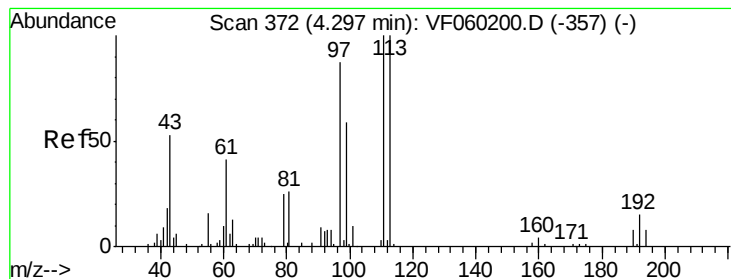


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 17.54 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.02 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

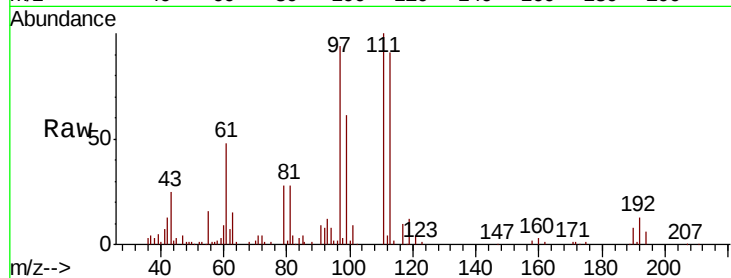
Tot Ion: 43 Resp: 24854

Ion Ratio Lower Upper

43 100

61 191.1 61.6 92.4#

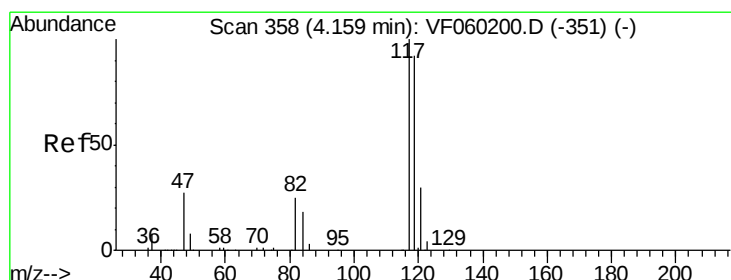
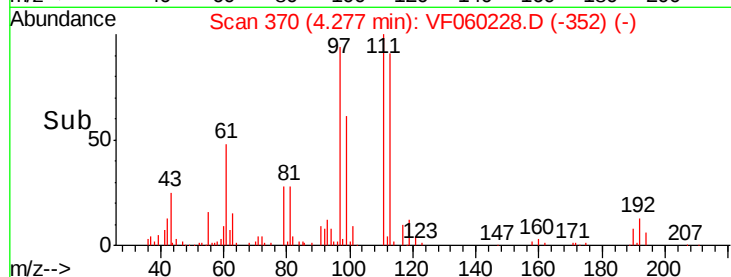
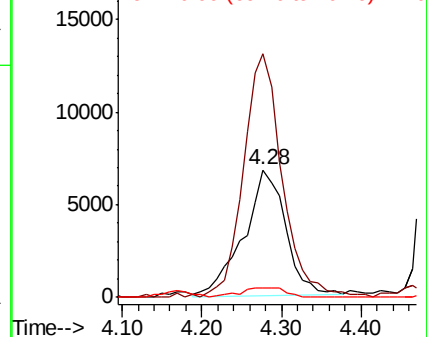
70 7.6 6.9 10.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 21.97 ug/l

RT: 4.17 min Scan# 359

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

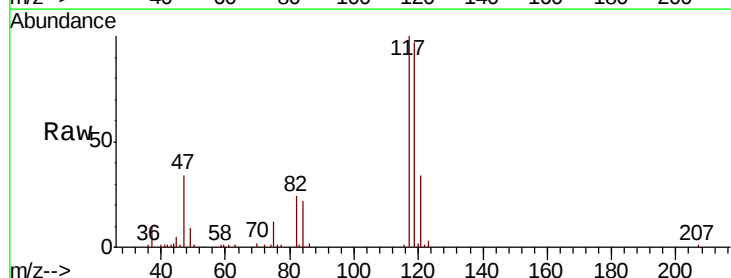
Tgt Ion: 117 Resp: 76610

Ion Ratio Lower Upper

117 100

119 97.4 73.0 109.6

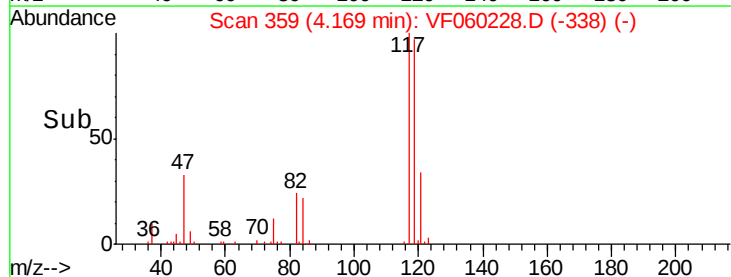
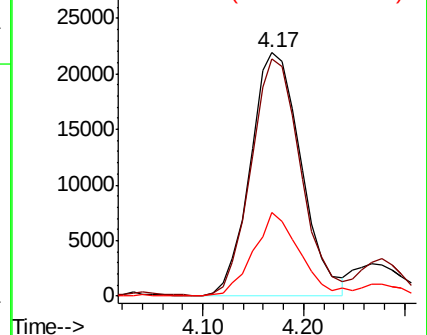
121 34.2 23.9 35.9

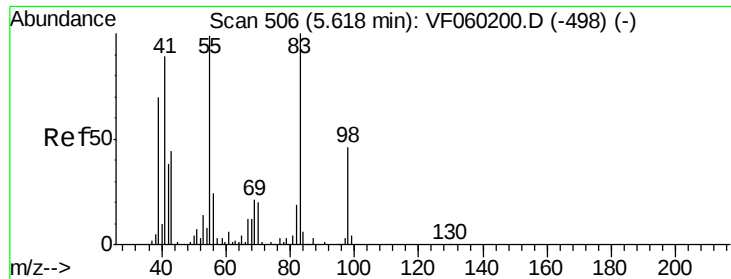


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

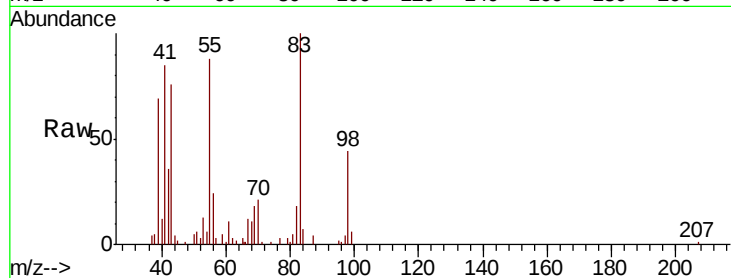




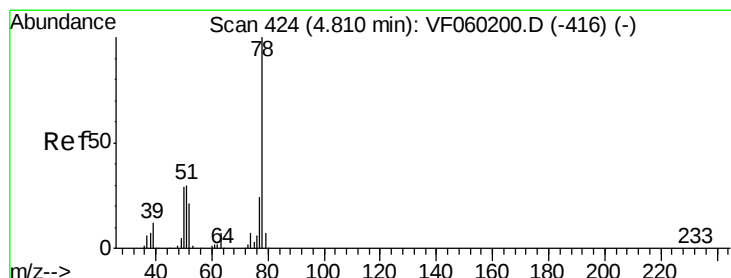
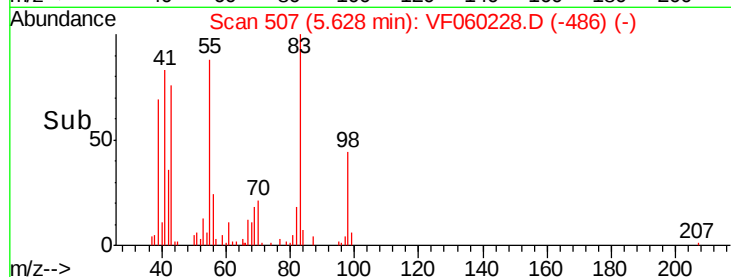
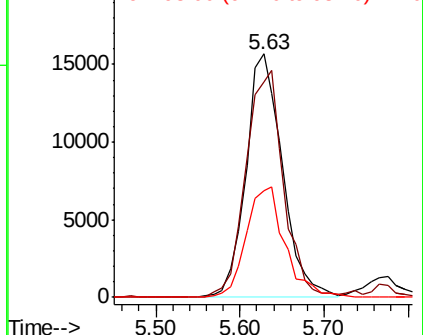
#39
Methvlcvclohexane
Concen: 22.46 ug/l
RT: 5.63 min Scan# 507
Delta R.T. 0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

Tot Ion: 83 Resp: 47718
Ion Ratio Lower Upper
83 100
55 88.2 79.0 118.4
98 44.0 36.7 55.1

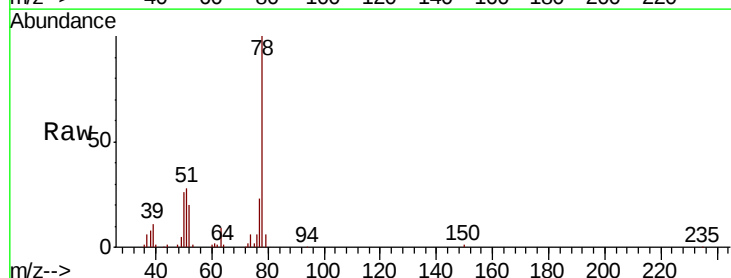


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

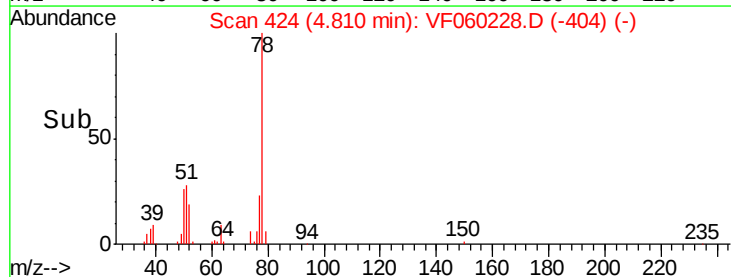
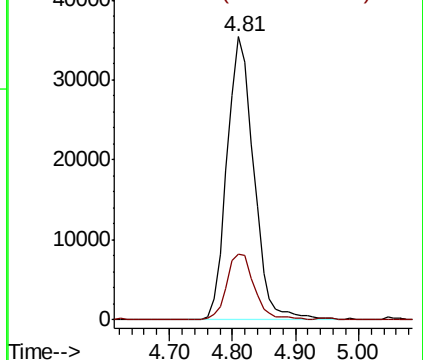


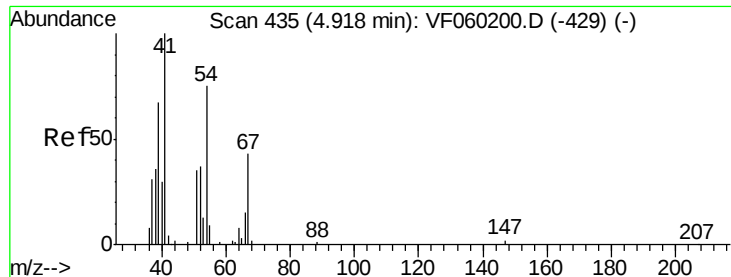
#40
Benzene
Concen: 23.13 ug/l
RT: 4.81 min Scan# 424
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion: 78 Resp: 104548
Ion Ratio Lower Upper
78 100
77 23.1 19.0 28.4



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0

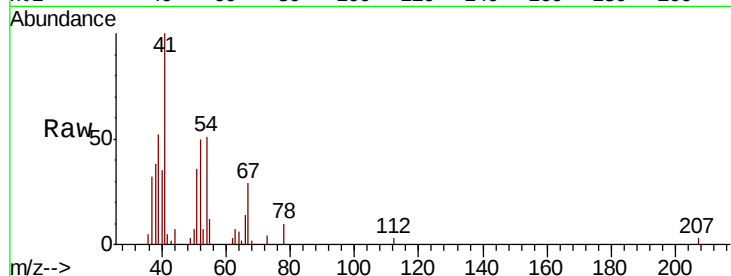




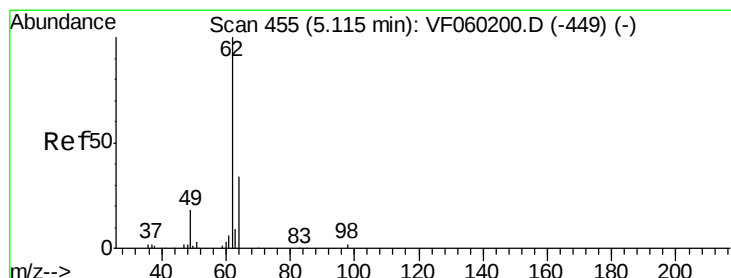
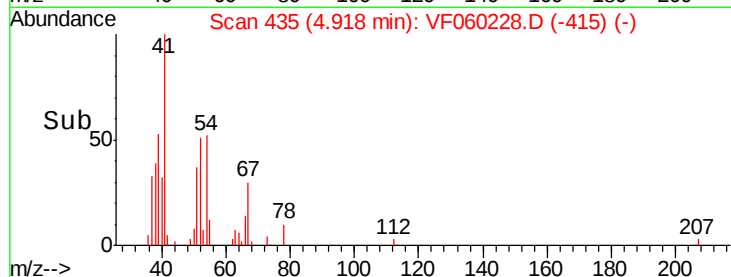
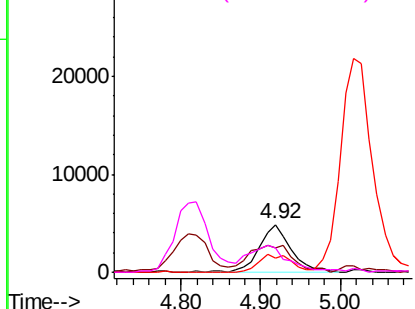
#41
Methacrylonitrile
Concen: 20.56 ug/l
RT: 4.92 min Scan# 435
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

Tot Ion: 41 Resp: 13567
Ion Ratio Lower Upper
41 100
39 52.1 57.4 86.2#
67 28.9 34.6 52.0#
52 50.2 36.2 54.4

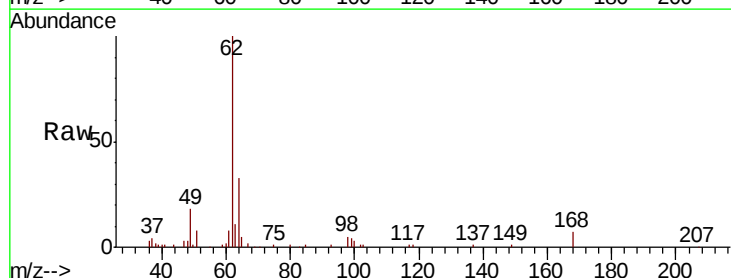


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

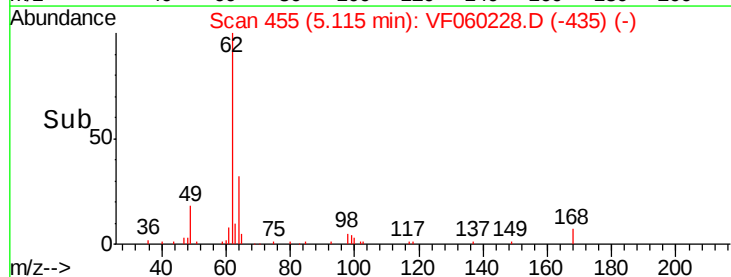
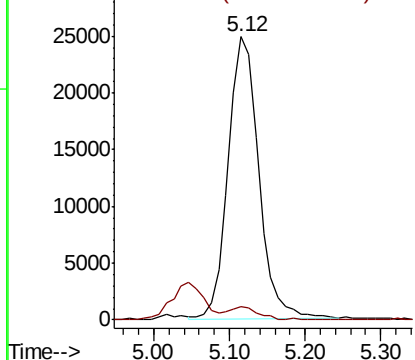


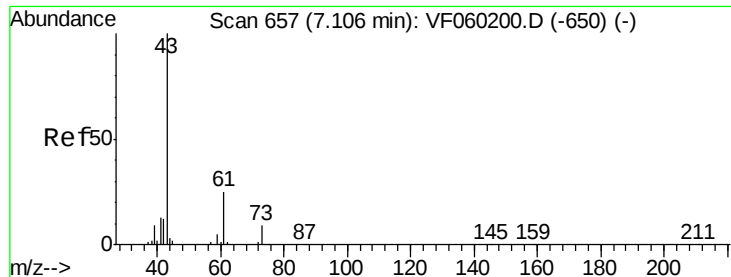
#42
1,2-Dichloroethane
Concen: 21.27 ug/l
RT: 5.12 min Scan# 455
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion: 62 Resp: 69484
Ion Ratio Lower Upper
62 100
98 4.6 0.0 8.8



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



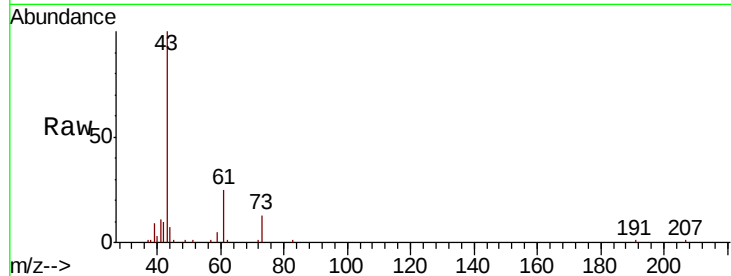


#43

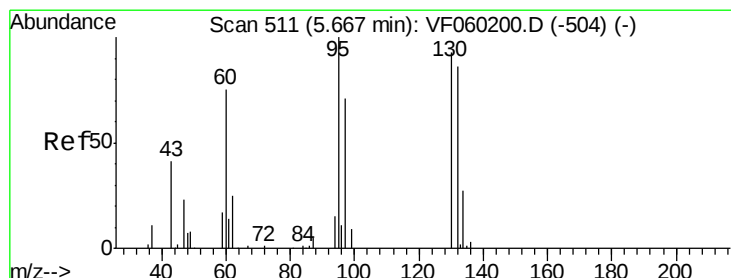
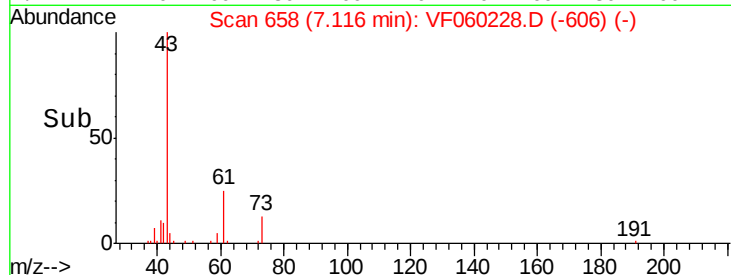
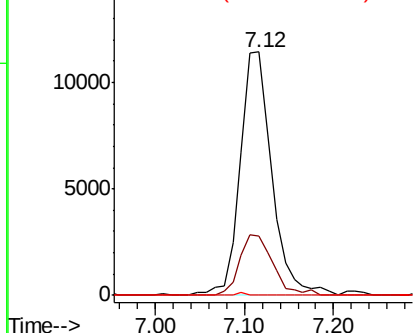
Isopropyl Acetate
 Concen: 19.16 ug/l
 RT: 7.12 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBS01

Tot Ion: 43 Resp: 28262
 Ion Ratio Lower Upper
 43 100
 61 24.5 19.9 29.9
 87 0.0 0.4 0.6#



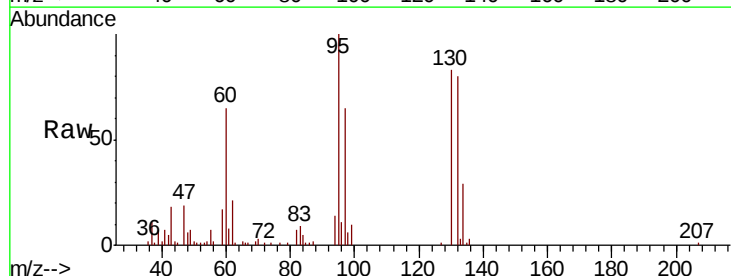
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



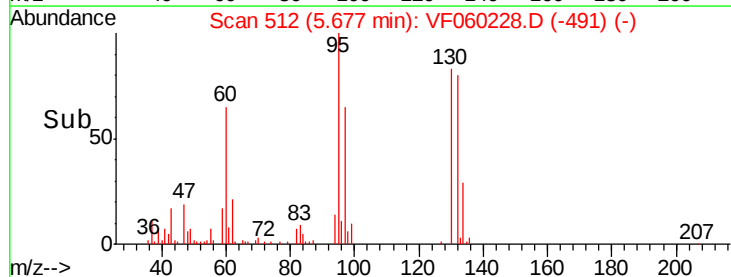
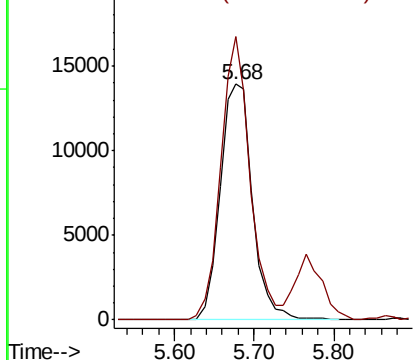
#44

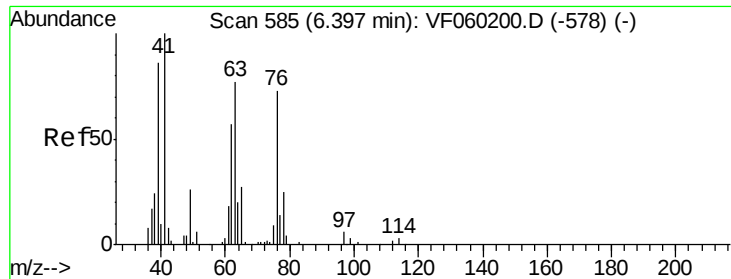
Trichloroethene
 Concen: 21.59 ug/l
 RT: 5.68 min Scan# 512
 Delta R.T. 0.01 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

Tgt Ion: 130 Resp: 39522
 Ion Ratio Lower Upper
 130 100
 95 120.1 0.0 215.4



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0

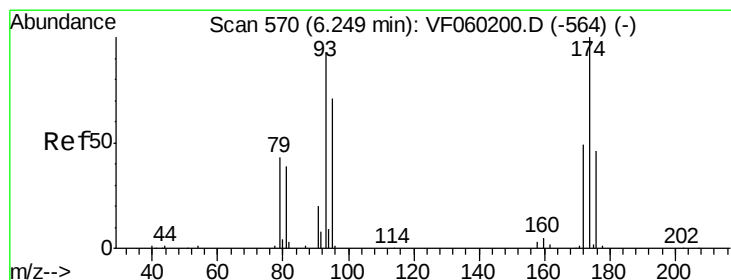
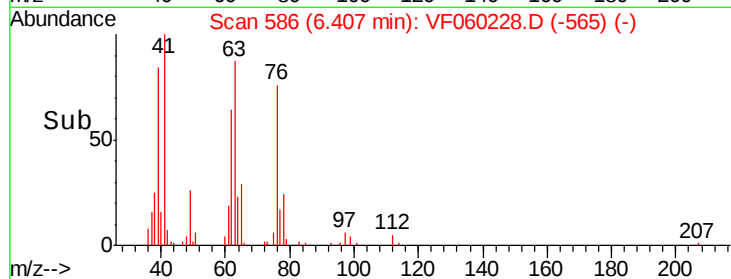
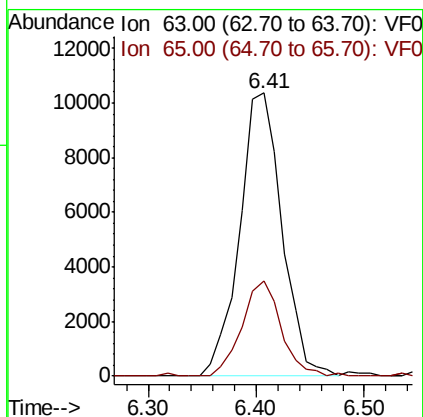
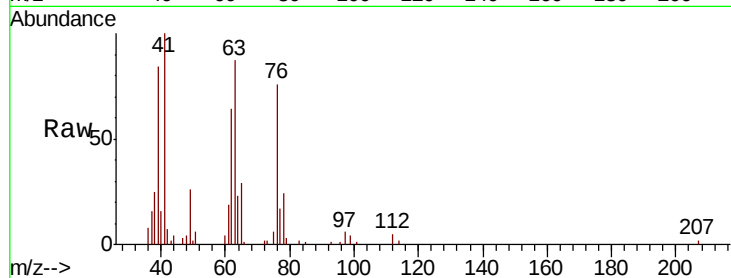




#45
 1,2-Dichloropropane
 Concen: 21.89 ug/l
 RT: 6.41 min Scan# 586
 Delta R.T. 0.01 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

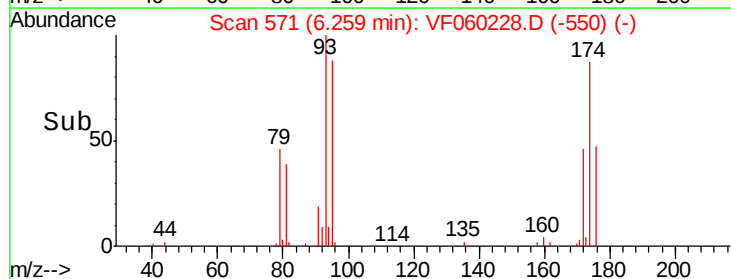
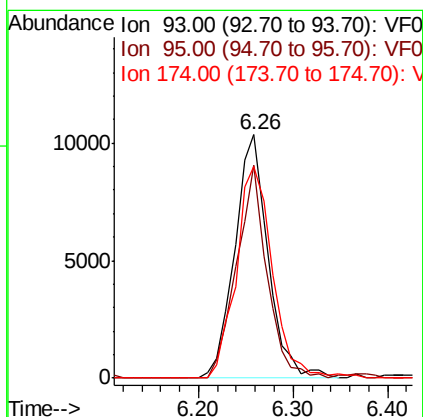
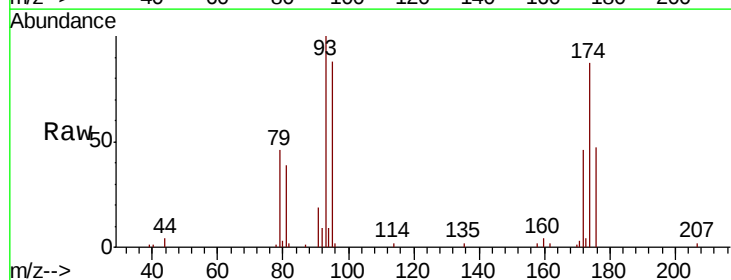
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBS01

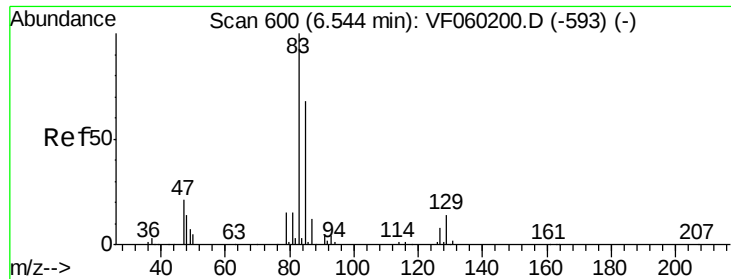
Tot Ion: 63 Resp: 28115
 Ion Ratio Lower Upper
 63 100
 65 33.4 27.9 41.9



#46
 Dibromomethane
 Concen: 22.34 ug/l
 RT: 6.26 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

Tgt Ion: 93 Resp: 25264
 Ion Ratio Lower Upper
 93 100
 95 87.6 61.4 92.2
 174 86.8 85.9 128.9





#47

Bromodichloromethane

Concen: 22.20 ug/l

RT: 6.54 min Scan# 600

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

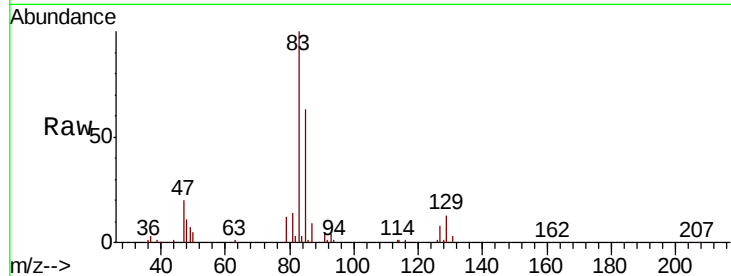
Tot Ion: 83 Resp: 68139

Ion Ratio Lower Upper

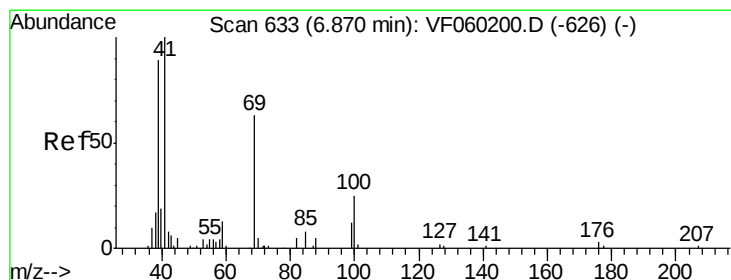
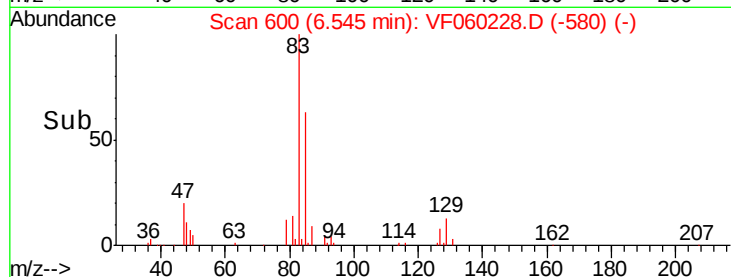
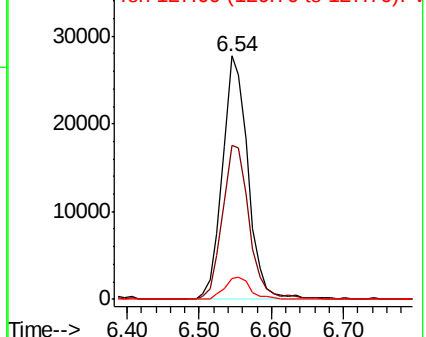
83 100

85 63.0 54.0 81.0

127 8.5 6.6 9.8



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: 18.74 ug/l

RT: 6.88 min Scan# 634

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

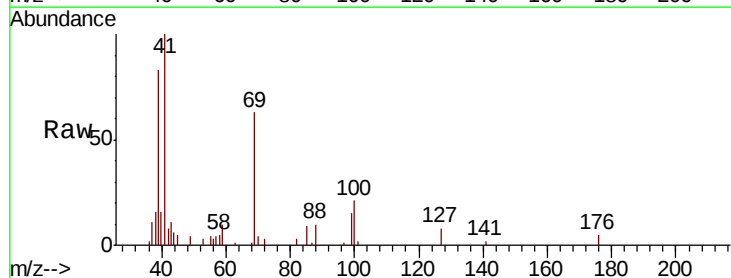
Tgt Ion: 41 Resp: 21958

Ion Ratio Lower Upper

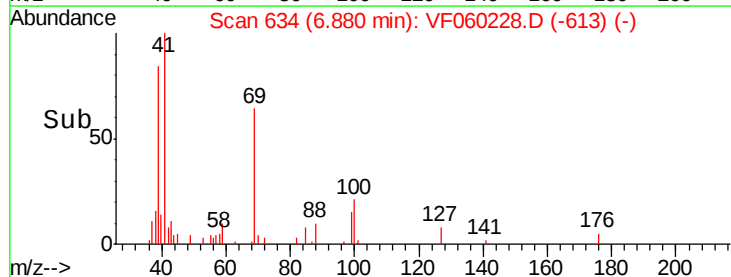
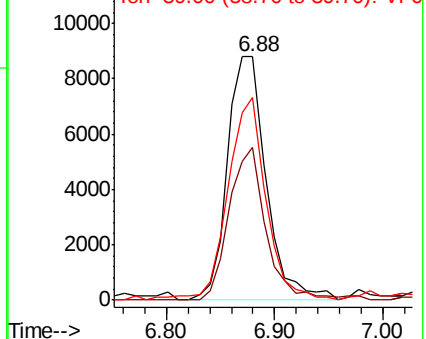
41 100

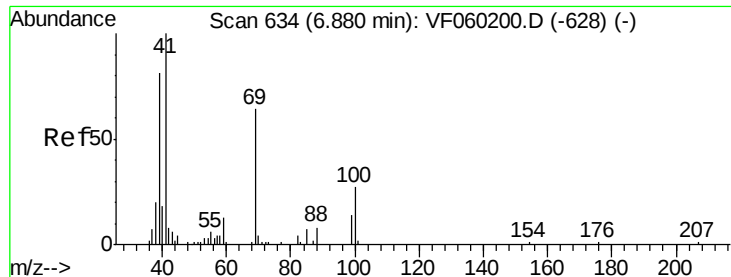
69 62.8 50.4 75.6

39 83.5 70.6 106.0



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

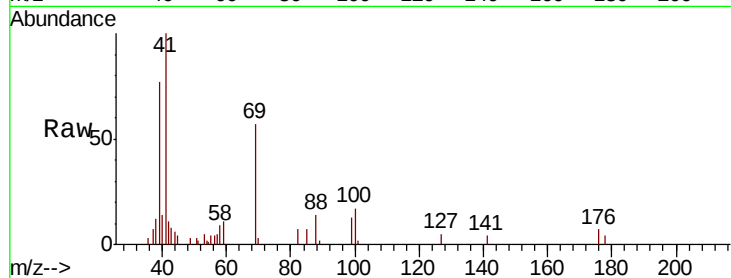




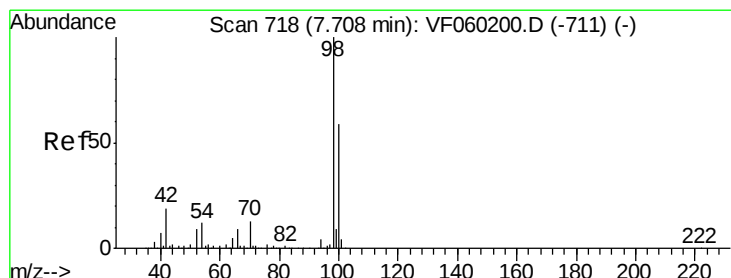
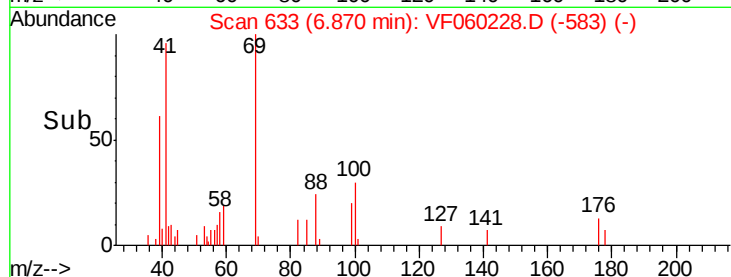
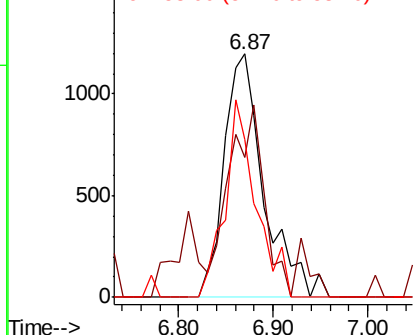
#49
1,4-Dioxane
Concen: 202.77 ug/l
RT: 6.87 min Scan# 633
Delta R.T. -0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

Tot Ion: 88 Resp: 3492
Ion Ratio Lower Upper
88 100
43 57.2 68.1 102.1#
58 65.1 38.1 57.1#

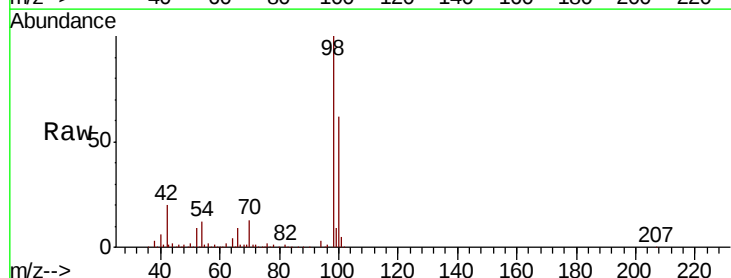


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

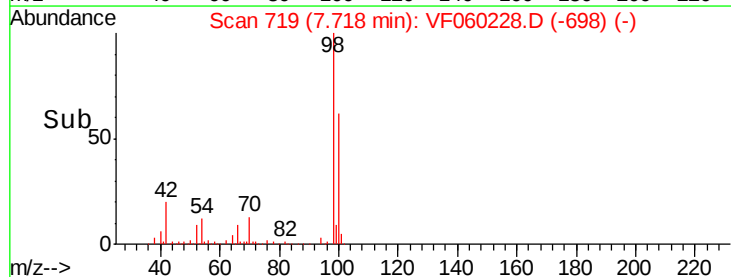
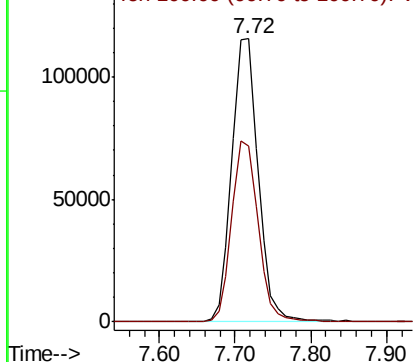


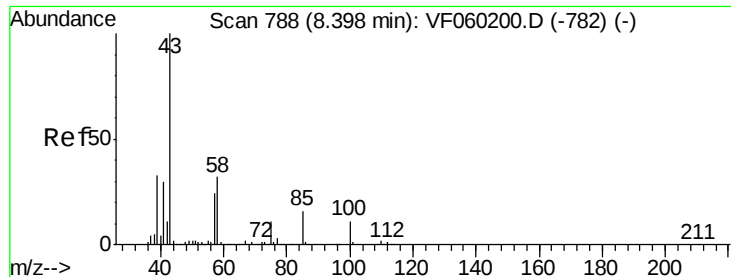
#50
Toluene-d8
Concen: 53.03 ug/l
RT: 7.72 min Scan# 719
Delta R.T. 0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion: 98 Resp: 279422
Ion Ratio Lower Upper
98 100
100 62.1 47.4 71.0



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





#51

4-Methyl-2-Pentanone

Concen: 98.75 ug/l

RT: 8.41 min Scan# 789

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

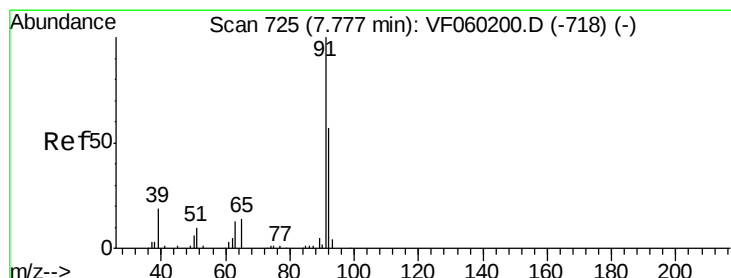
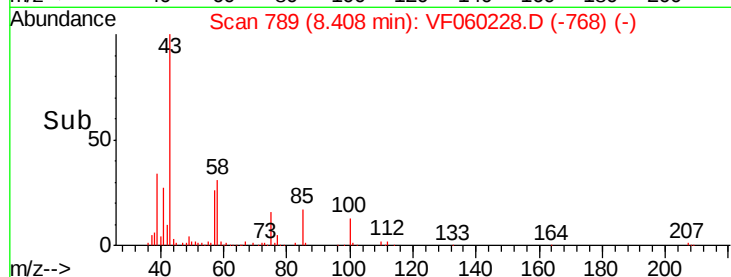
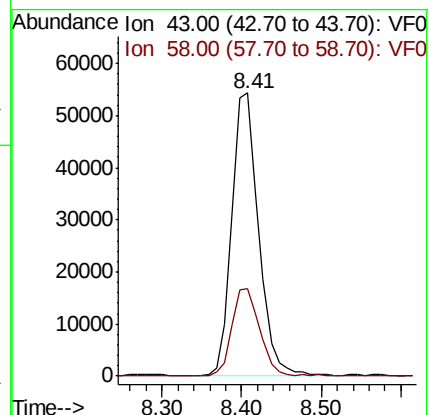
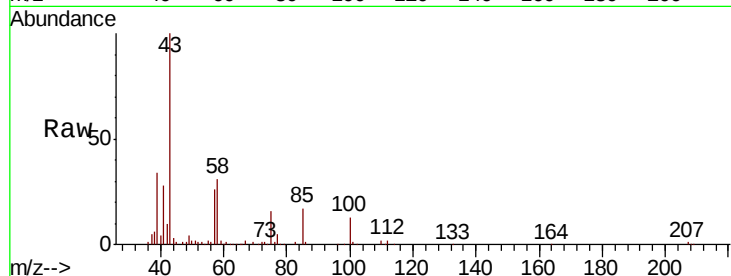
VF0910SBS01

Tot Ion: 43 Resp: 129450

Ion Ratio Lower Upper

43 100

58 30.8 25.8 38.6



#52

Toluene

Concen: 22.56 ug/l

RT: 7.78 min Scan# 725

Delta R.T. 0.00 min

Lab File: VF060228.D

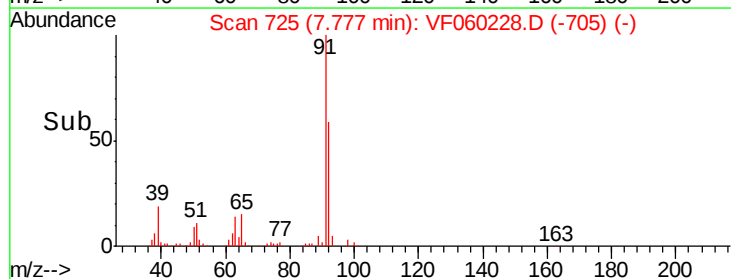
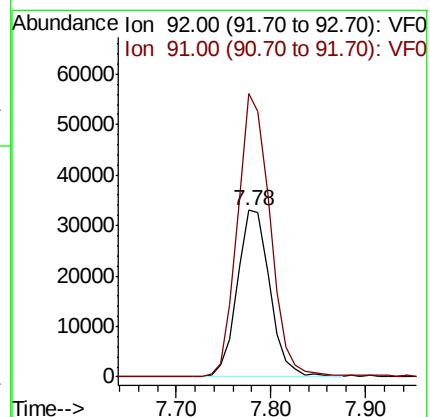
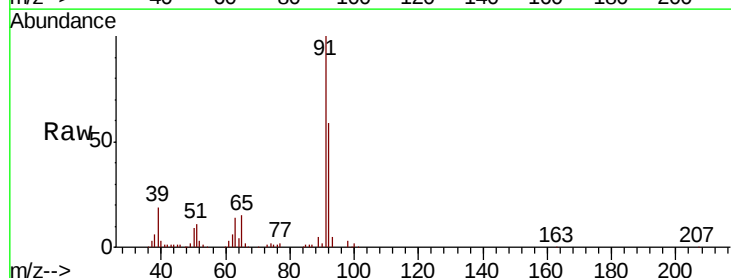
Acq: 10 Sep 2018 12:13

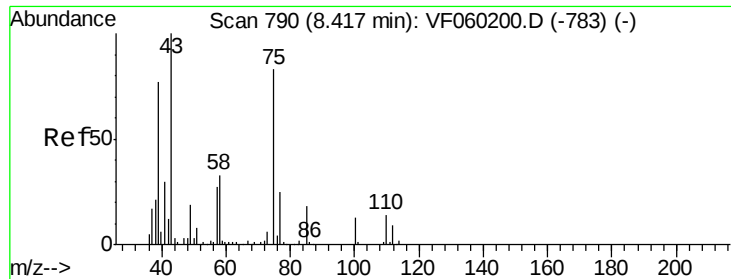
Tgt Ion: 92 Resp: 78975

Ion Ratio Lower Upper

92 100

91 170.1 140.0 210.0





#53

t-1,3-Dichloropropene

Concen: 20.85 ug/l

RT: 8.43 min Scan# 791

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

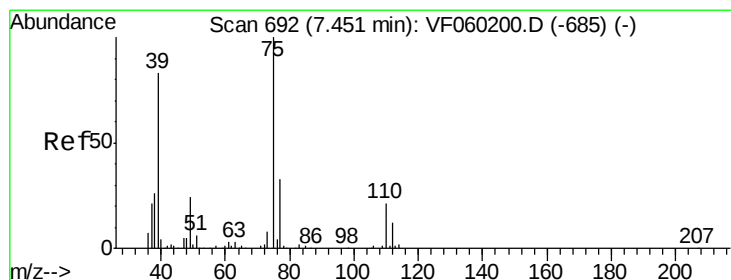
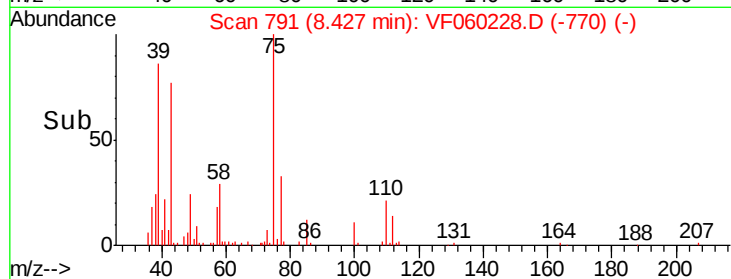
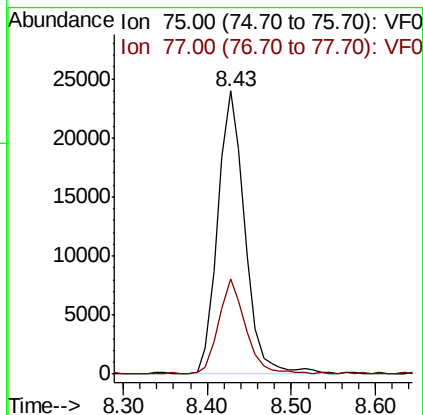
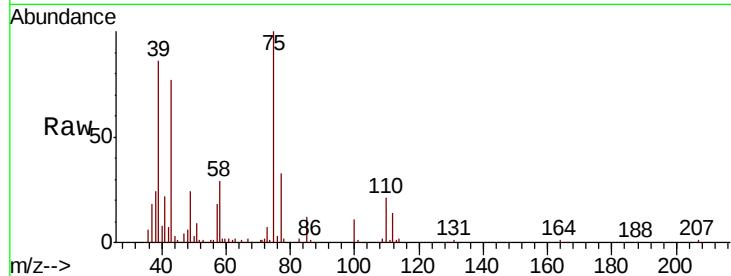
VF0910SBS01

Tot Ion: 75 Resp: 53774

Ion Ratio Lower Upper

75 100

77 33.4 24.3 36.5



#54

cis-1,3-Dichloropropene

Concen: 21.15 ug/l

RT: 7.46 min Scan# 693

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

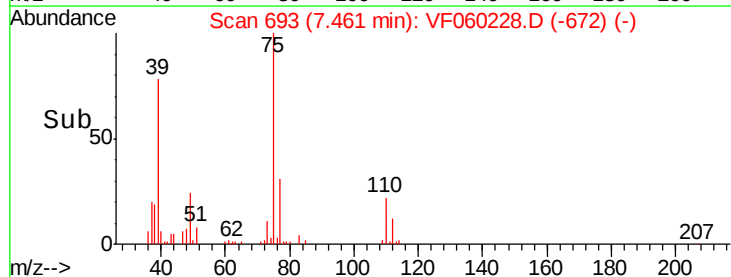
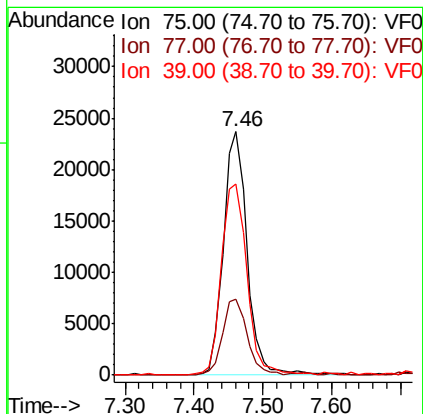
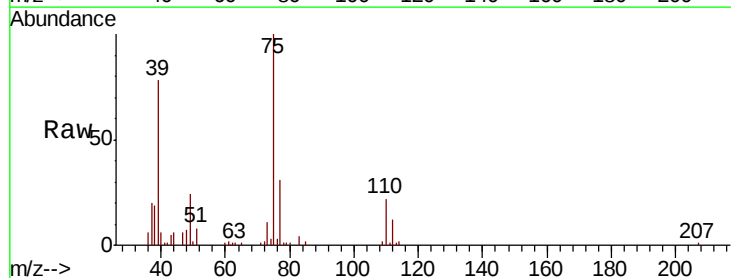
Tgt Ion: 75 Resp: 56622

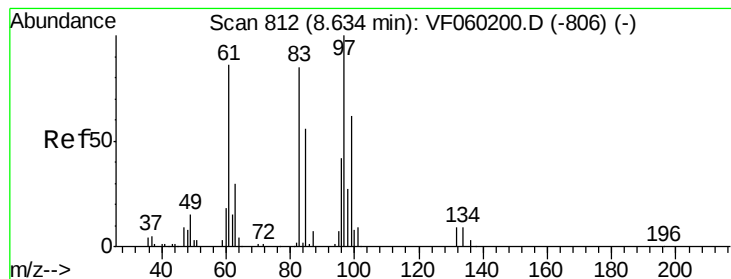
Ion Ratio Lower Upper

75 100

77 31.3 26.6 39.8

39 78.4 66.6 100.0





#55

1,1,2-Trichloroethane

Concen: 20.40 ug/l

RT: 8.63 min Scan# 812

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

Tot Ion: 97 Resp: 26256

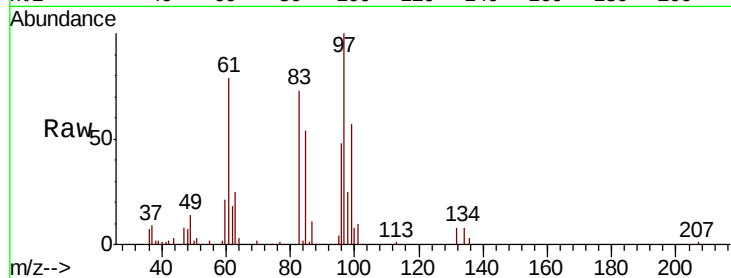
Ion Ratio Lower Upper

97 100

83 73.2 68.1 102.1

85 54.3 44.6 66.8

99 56.7 49.8 74.8

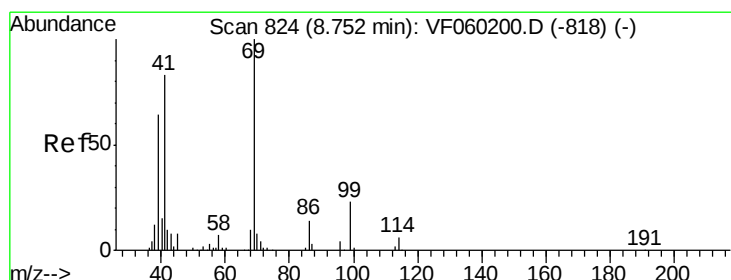
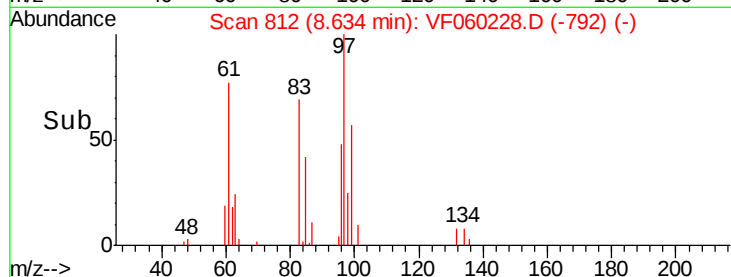
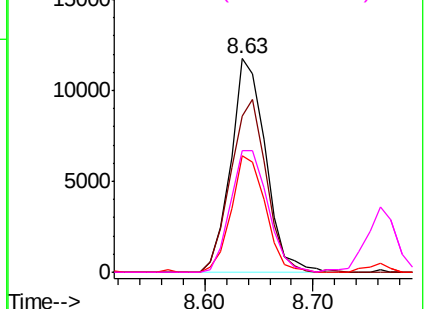


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 19.42 ug/l

RT: 8.76 min Scan# 825

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

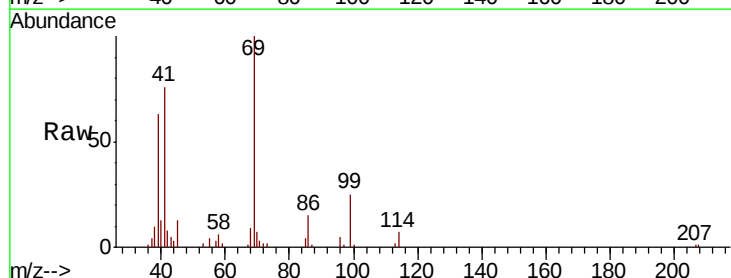
Tgt Ion: 69 Resp: 28572

Ion Ratio Lower Upper

69 100

41 75.8 66.6 100.0

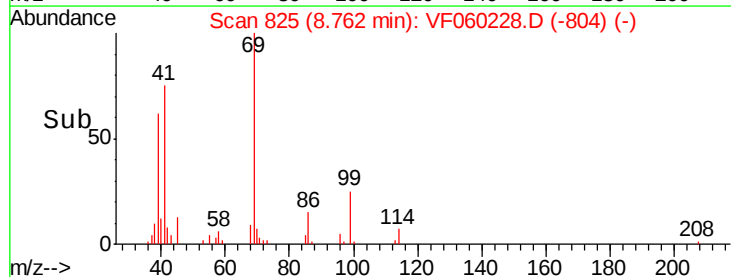
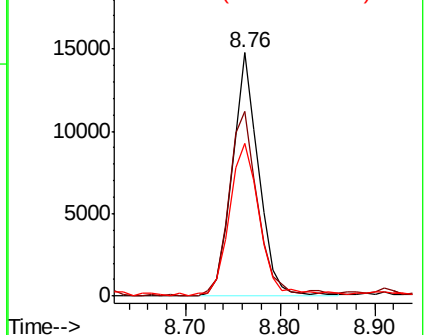
39 62.8 51.5 77.3

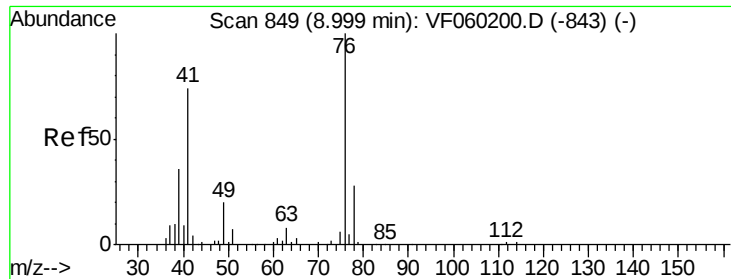


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

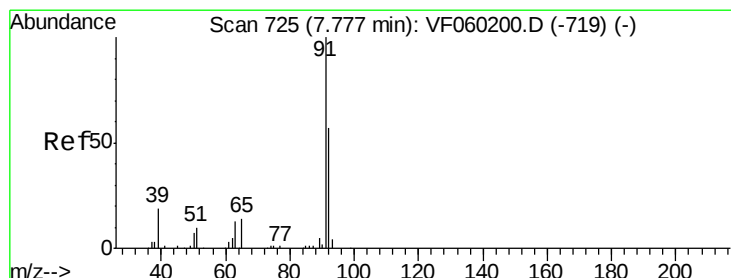
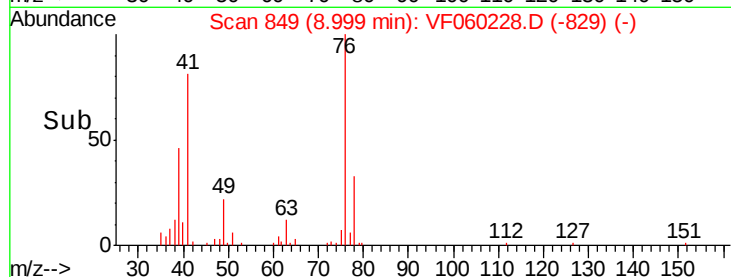
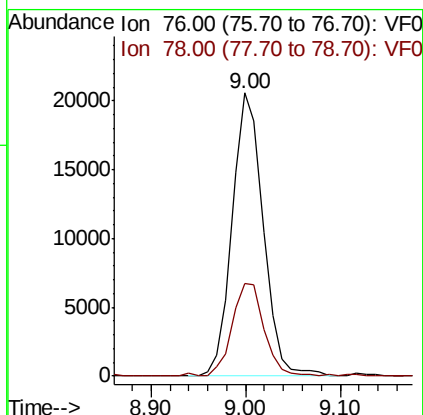
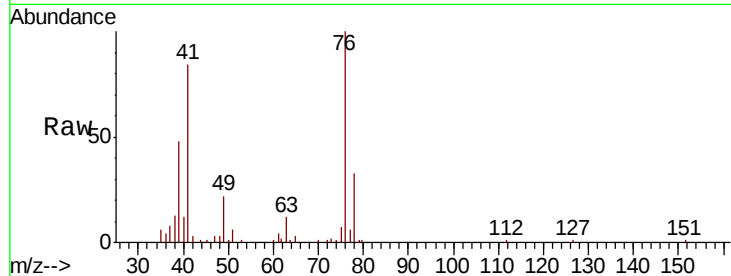




#57
 1,3-Dichloropropane
 Concen: 20.42 ug/l
 RT: 9.00 min Scan# 849
 Delta R.T. 0.00 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

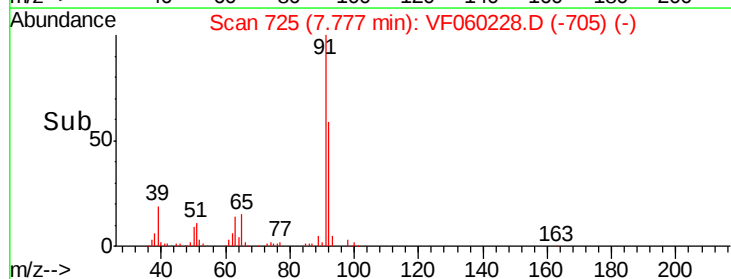
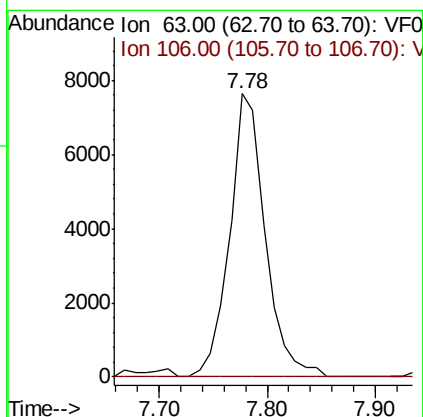
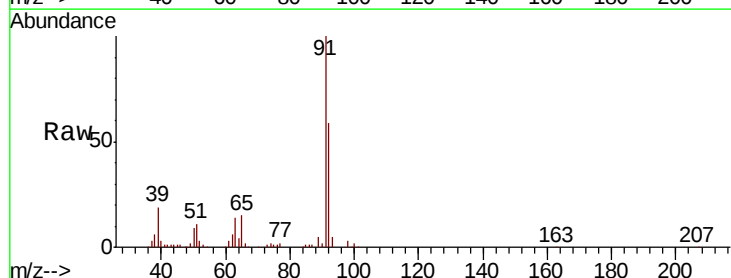
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBS01

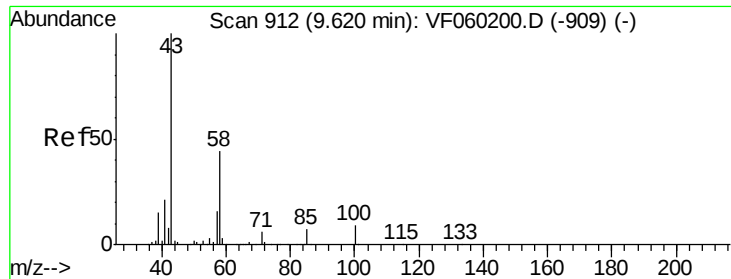
Tot Ion: 76 Resp: 46727
 Ion Ratio Lower Upper
 76 100
 78 32.7 22.8 34.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 110.38 ug/l
 RT: 7.78 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

Tgt Ion: 63 Resp: 17468
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0

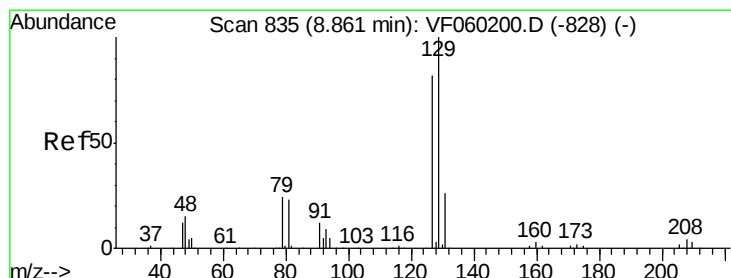
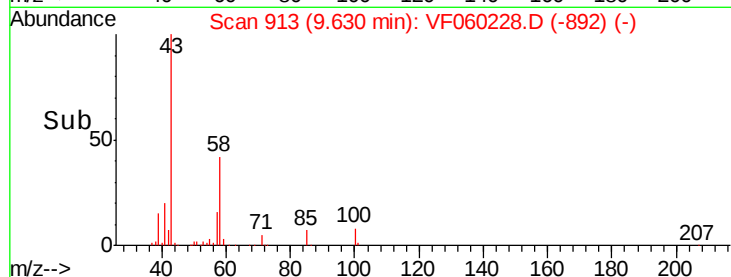
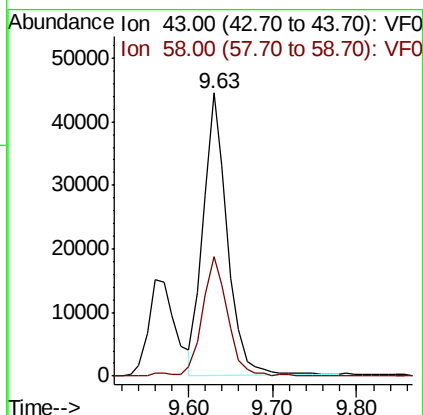
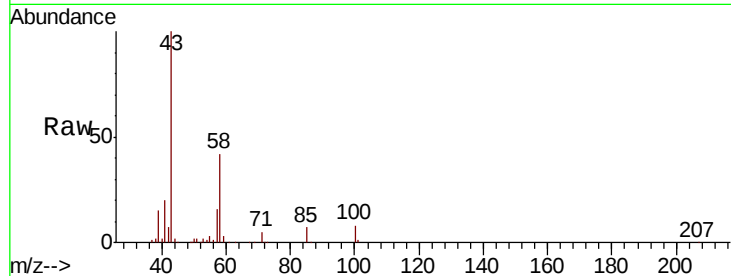




#59
2-Hexanone
Concen: 88.89 ug/l
RT: 9.63 min Scan# 913
Delta R.T. 0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

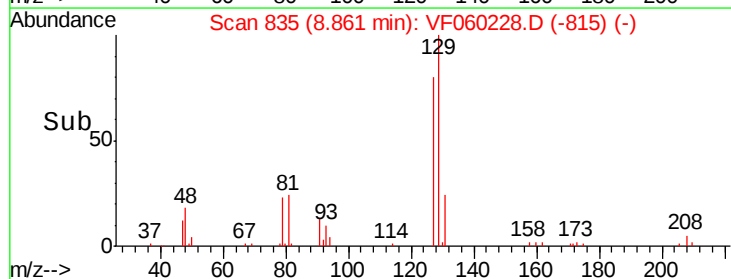
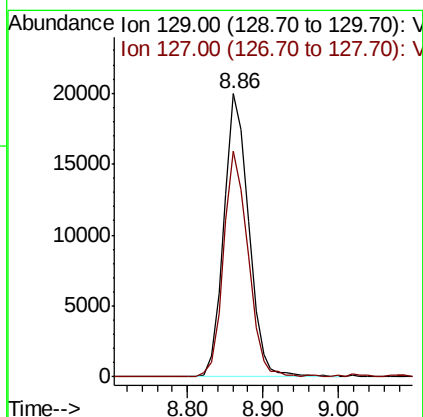
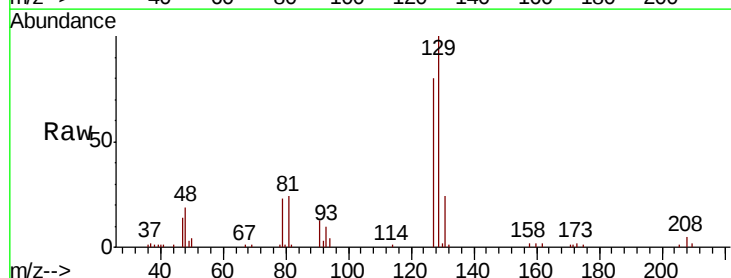
Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

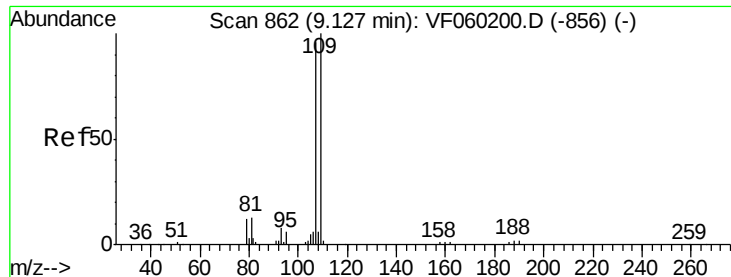
Tot Ion: 43 Resp: 87889
Ion Ratio Lower Upper
43 100
58 42.3 20.8 62.5



#60
Dibromochloromethane
Concen: 21.27 ug/l
RT: 8.86 min Scan# 835
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion: 129 Resp: 45342
Ion Ratio Lower Upper
129 100
127 79.7 40.9 122.8





#61

1,2-Dibromoethane

Concen: 20.31 ug/l

RT: 9.14 min Scan# 863

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

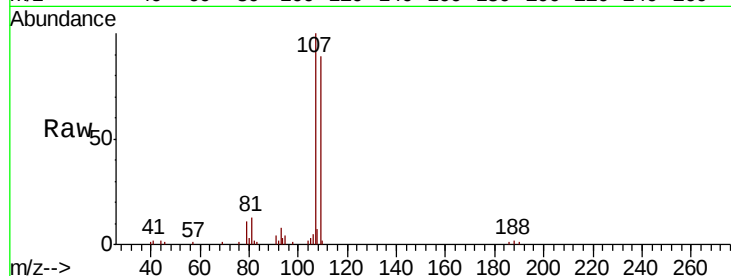
VF0910SBS01

Tot Ion:107 Resp: 31356

Ion Ratio Lower Upper

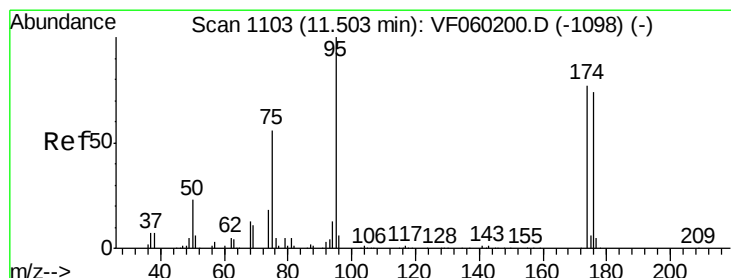
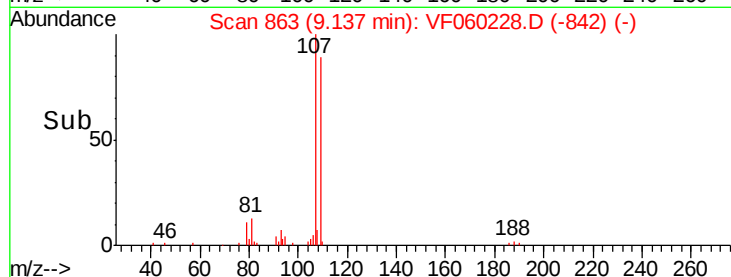
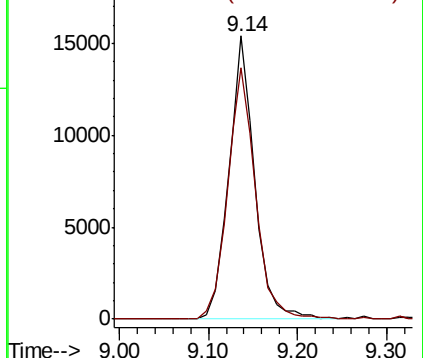
107 100

109 88.8 83.0 124.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 53.14 ug/l

RT: 11.51 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

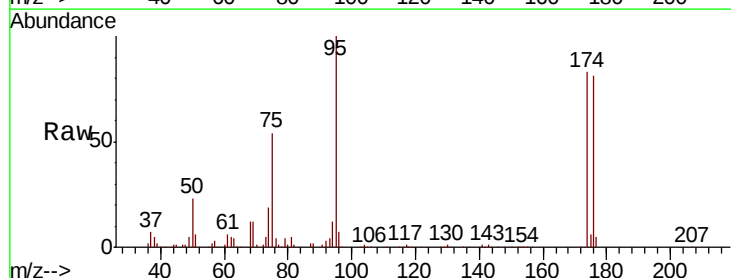
Tgt Ion: 95 Resp: 157980

Ion Ratio Lower Upper

95 100

174 83.3 0.0 153.2

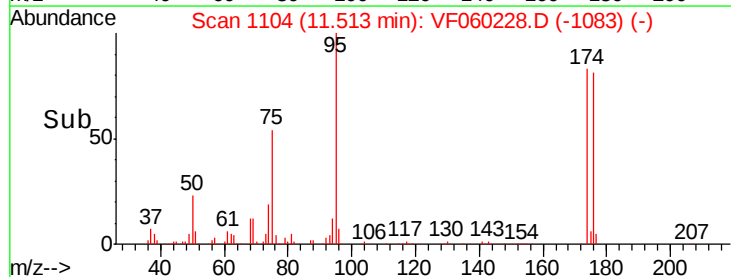
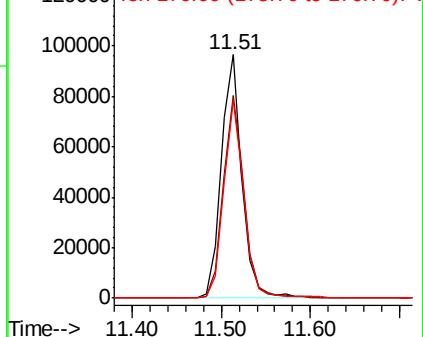
176 81.1 0.0 147.2

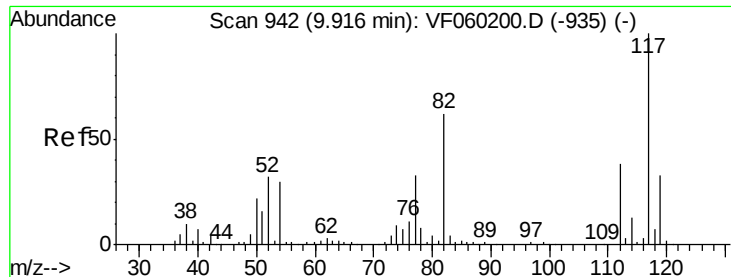


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

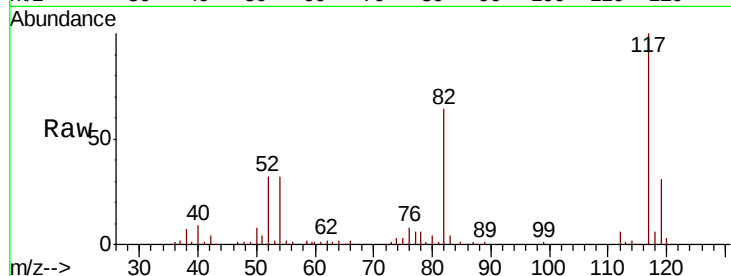




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.9	49.3	73.9
119	31.2	26.5	39.7

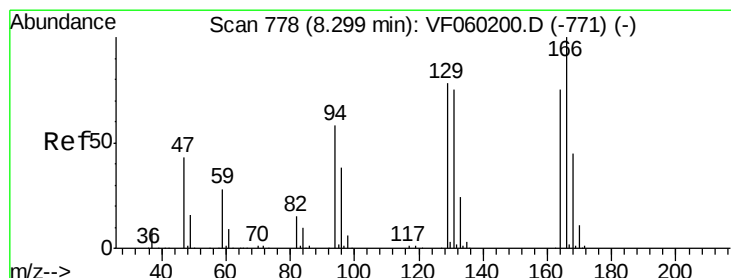
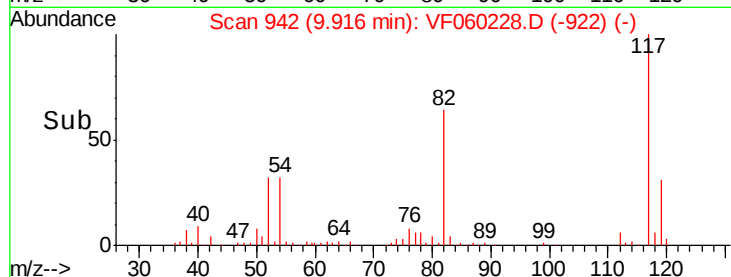
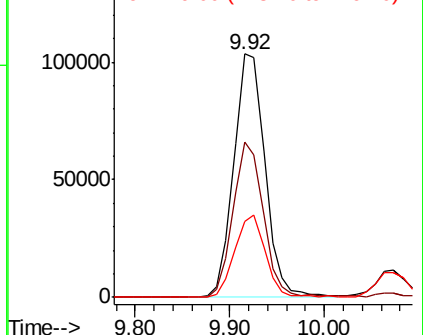


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 19.15 ug/l
RT: 8.31 min Scan# 779
Delta R.T. 0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.5	107.0	160.4
129	94.9	83.0	124.6
131	91.7	79.8	119.8

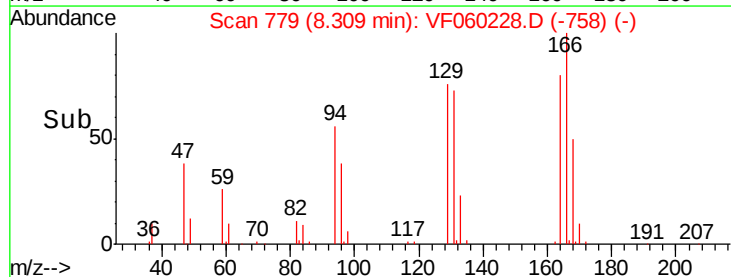
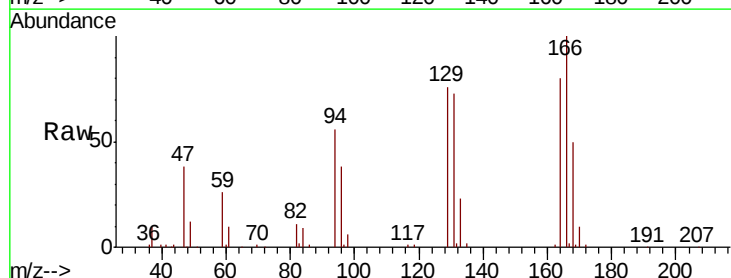
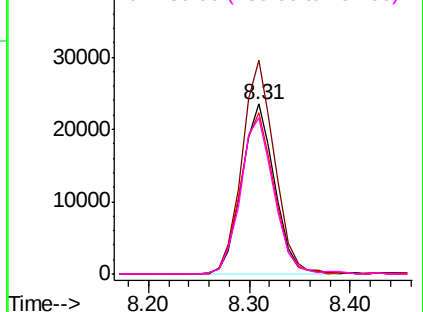
Abundance

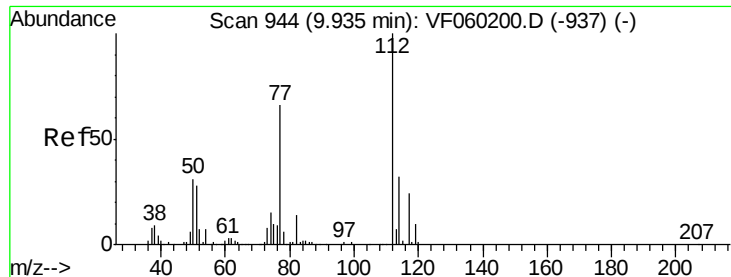
Ion 163.85 (163.55 to 164.55): V

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: 21.15 ug/l

RT: 9.95 min Scan# 945

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

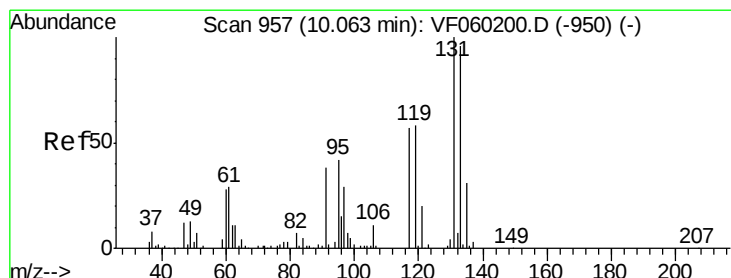
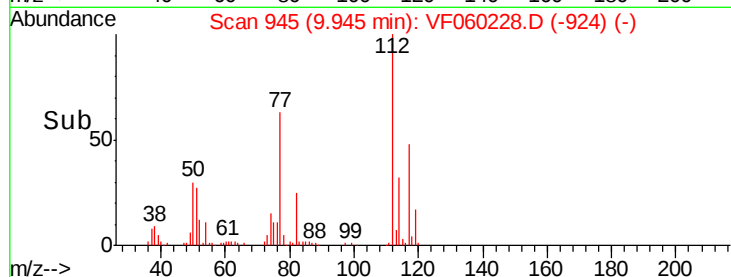
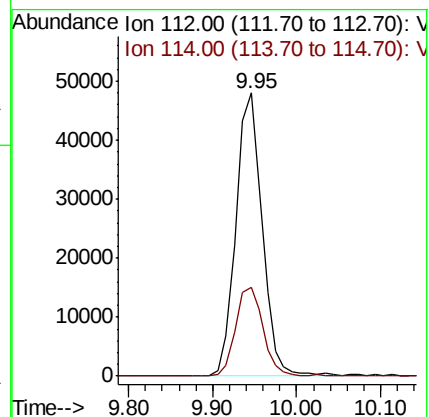
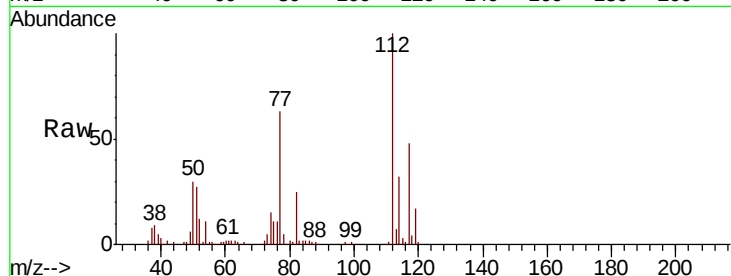
VF0910SBS01

Tot Ion:112 Resp: 104672

Ion Ratio Lower Upper

112 100

114 31.6 25.7 38.5



#66

1,1,1,2-Tetrachloroethane

Concen: 19.07 ug/l

RT: 10.07 min Scan# 958

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

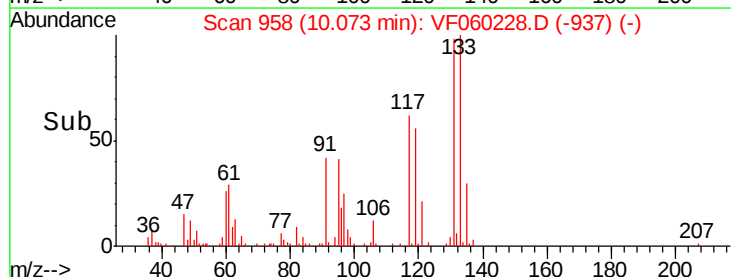
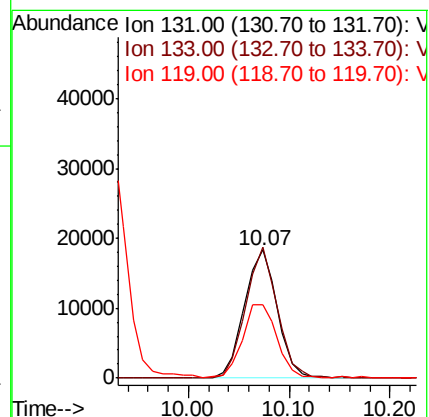
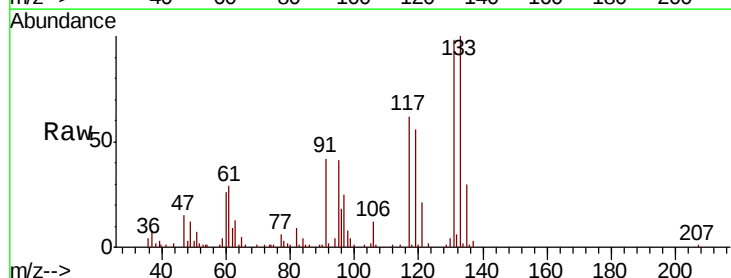
Tgt Ion:131 Resp: 41826

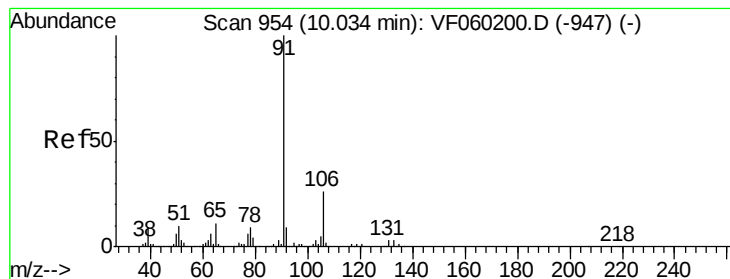
Ion Ratio Lower Upper

131 100

133 102.1 47.9 143.8

119 57.5 29.0 87.0





#67

Ethyl Benzene

Concen: 21.32 ug/l

RT: 10.04 min Scan# 955

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

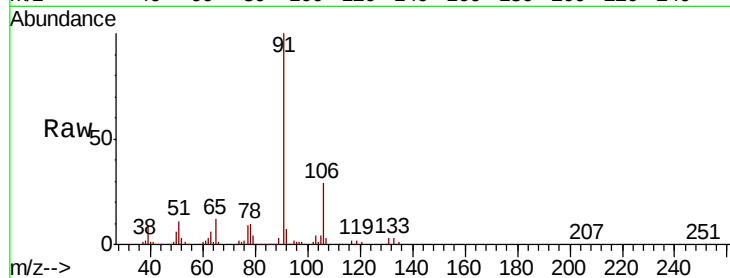
VF0910SBS01

Tot Ion: 91 Resp: 196877

Ion Ratio Lower Upper

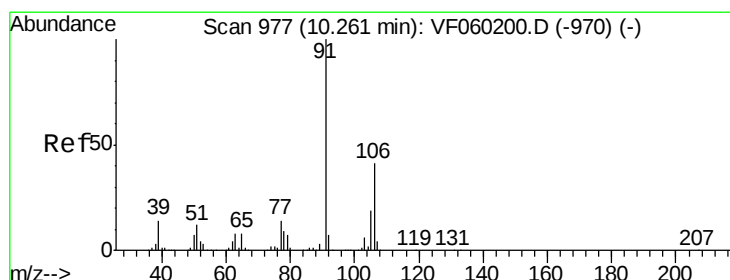
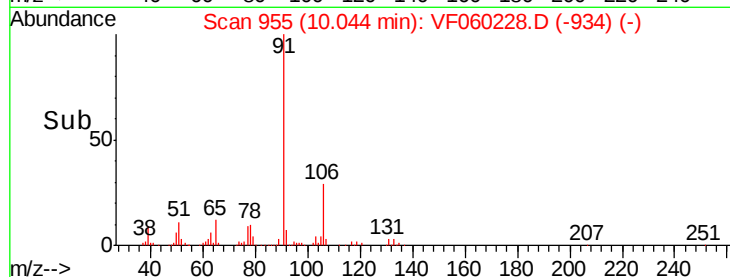
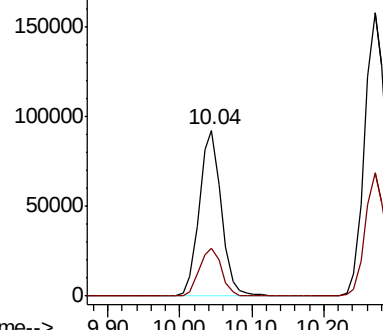
91 100

106 28.7 21.1 31.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 45.78 ug/l

RT: 10.27 min Scan# 978

Delta R.T. 0.01 min

Lab File: VF060228.D

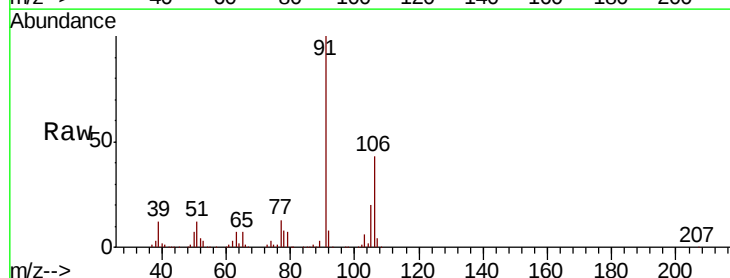
Acq: 10 Sep 2018 12:13

Tgt Ion: 106 Resp: 141832

Ion Ratio Lower Upper

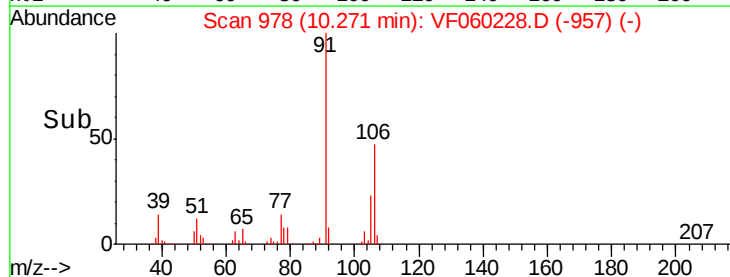
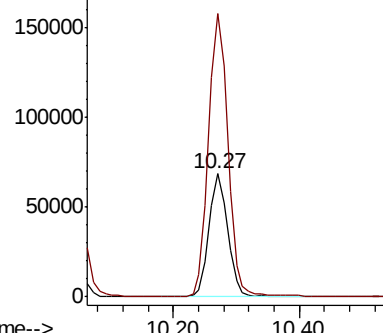
106 100

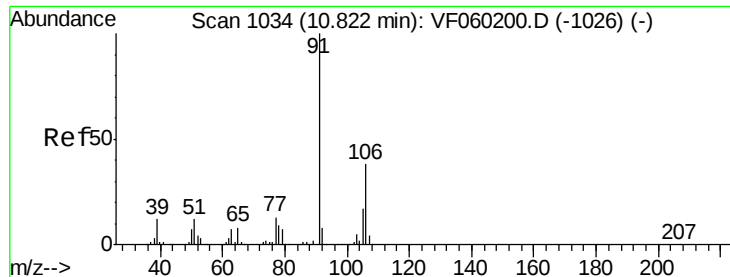
91 230.1 194.6 291.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

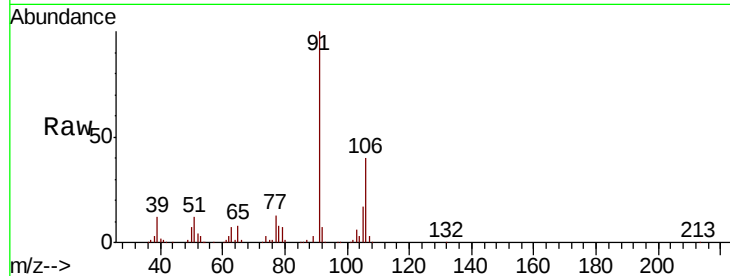




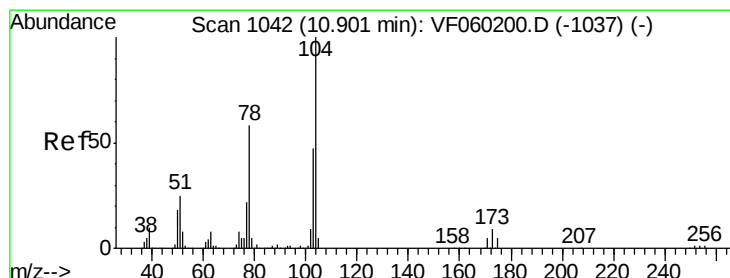
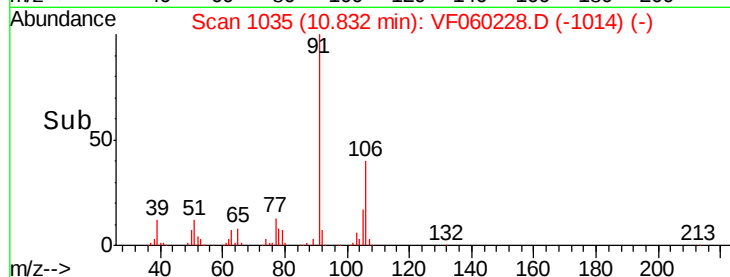
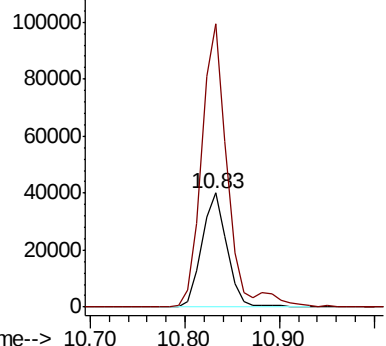
#69
o-Xylene
Concen: 22.22 ug/l
RT: 10.83 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

Tot Ion:106 Resp: 73444
Ion Ratio Lower Upper
106 100
91 248.7 130.5 391.5

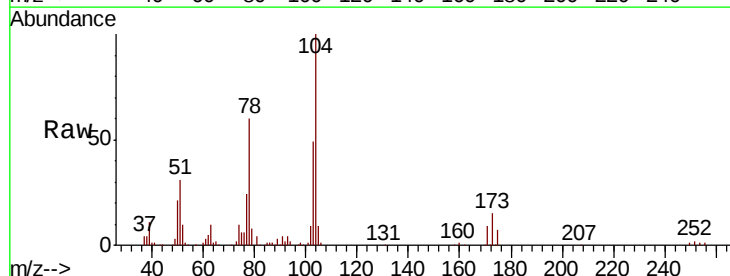


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

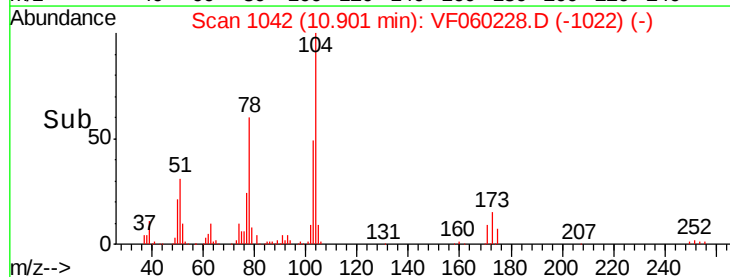
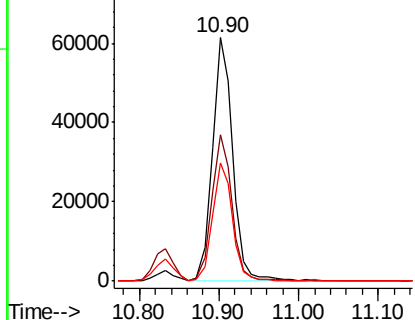


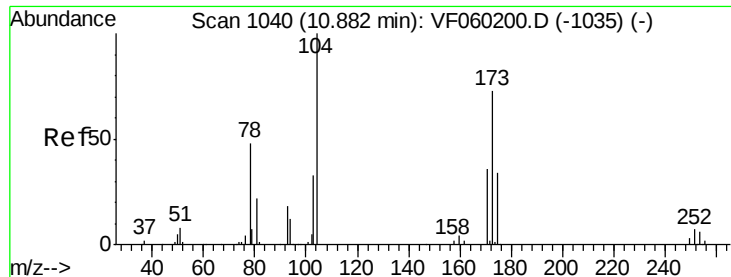
#70
Styrene
Concen: 21.93 ug/l
RT: 10.90 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion:104 Resp: 109832
Ion Ratio Lower Upper
104 100
78 60.3 47.1 70.7
103 48.7 38.6 57.8



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





#71

Bromoform

Concen: 22.23 ug/l

RT: 10.89 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

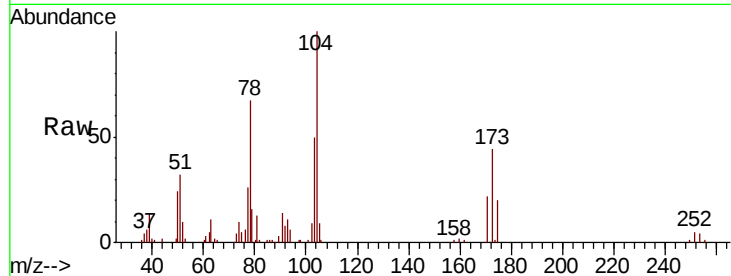
Tot Ion:173 Resp: 28152

Ion Ratio Lower Upper

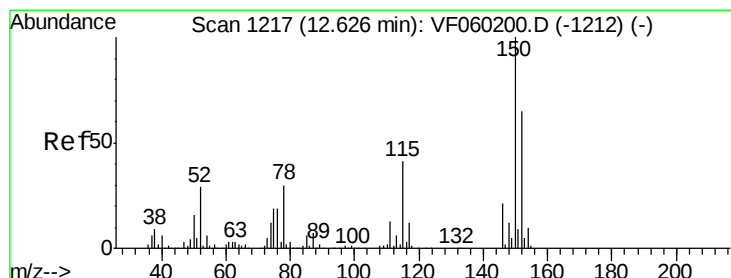
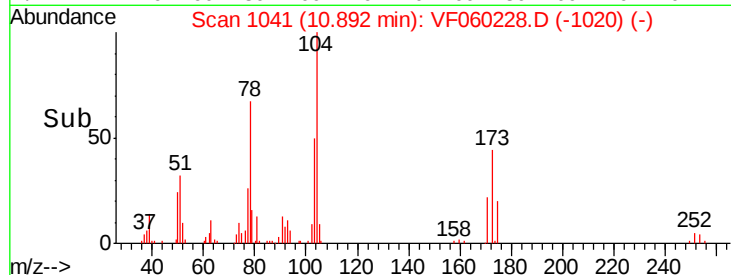
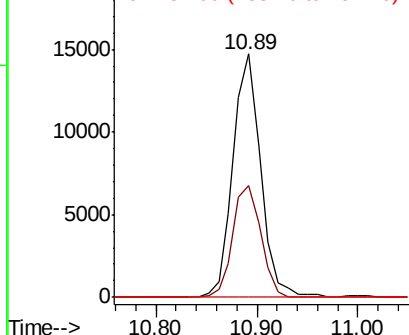
173 100

175 45.8 23.1 69.3

254 0.0 0.2 0.4#



Abundance Ion 173.00 (172.70 to 173.70): V
20000
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.64 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

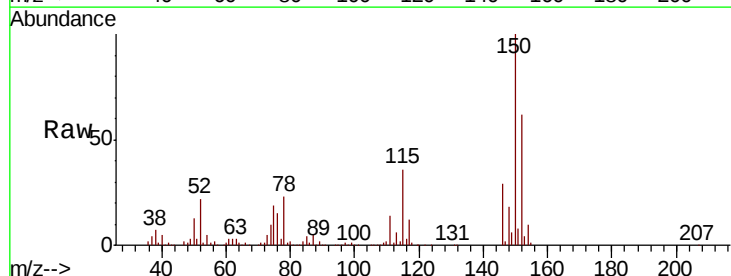
Tgt Ion:152 Resp: 152237

Ion Ratio Lower Upper

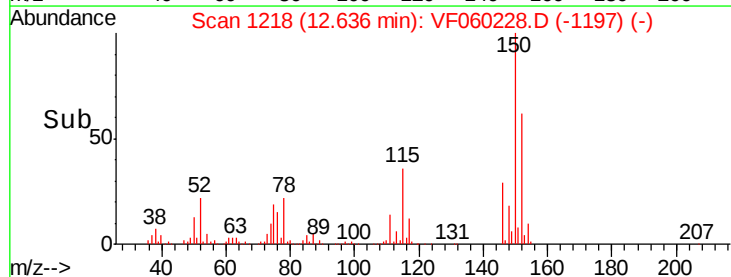
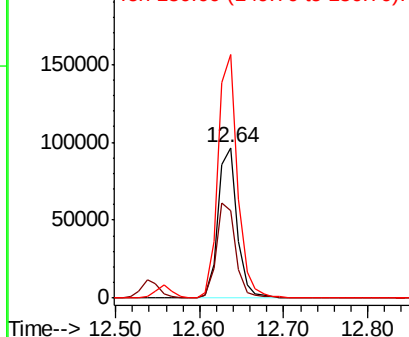
152 100

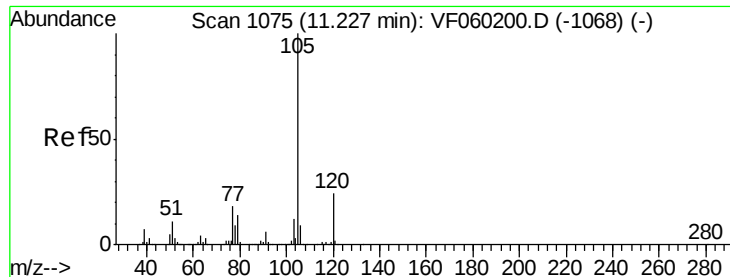
115 57.9 31.5 94.5

150 161.6 0.0 310.4



Abundance Ion 152.00 (151.70 to 152.70): V
200000
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.92 ug/l

RT: 11.23 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

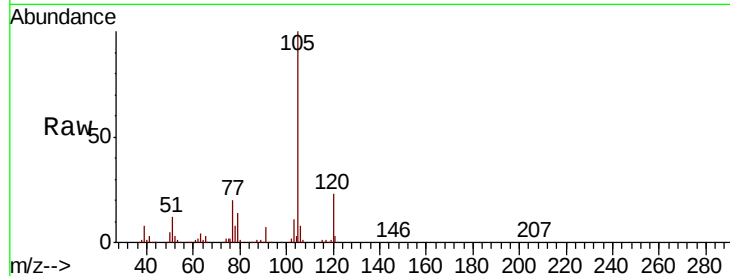
VF0910SBS01

Tot Ion:105 Resp: 230235

Ion Ratio Lower Upper

105 100

120 22.6 11.8 35.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

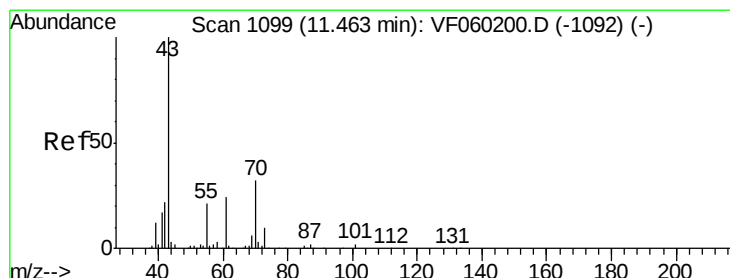
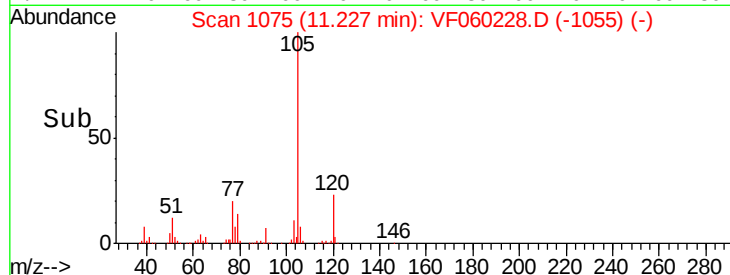
150000

100000

50000

0

Time--> 11.10 11.20 11.30 11.40



#74

N-ethyl acetate

Concen: 17.47 ug/l

RT: 11.46 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Tgt Ion: 43 Resp: 29309

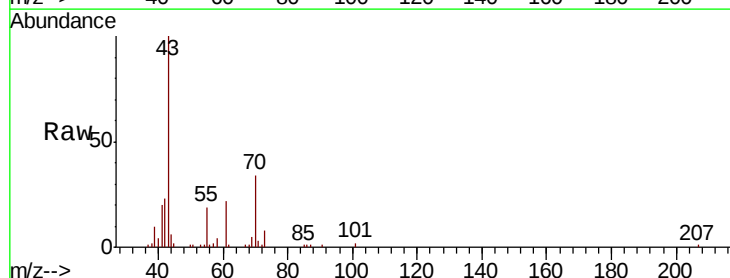
Ion Ratio Lower Upper

43 100

70 34.2 25.8 38.6

55 19.4 16.8 25.2

61 22.0 18.9 28.3



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

30000

25000

20000

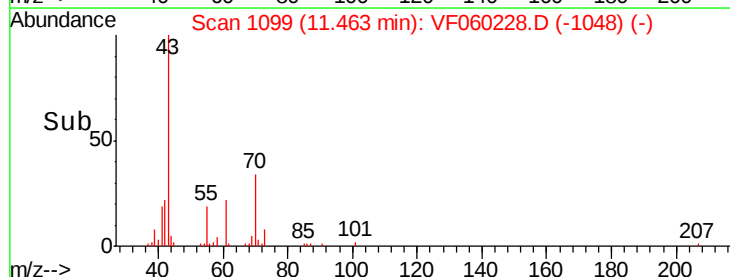
15000

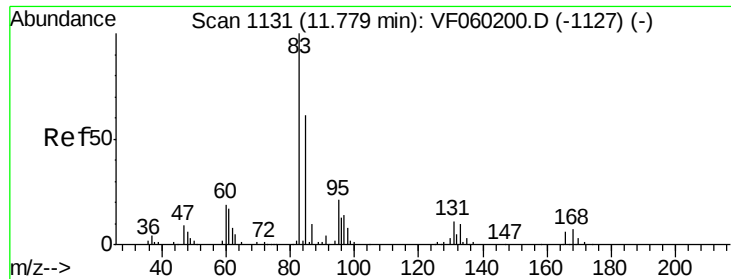
10000

5000

0

Time--> 11.40 11.50 11.60





#75

1,1,2,2-Tetrachloroethane

Concen: 21.23 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

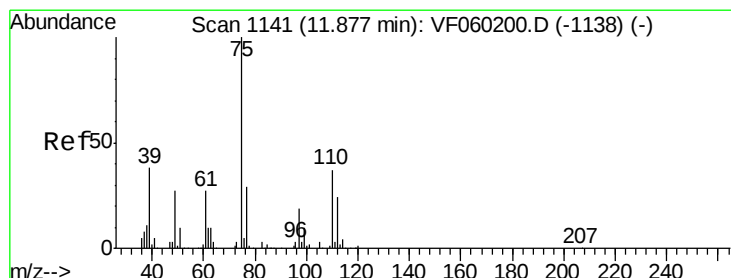
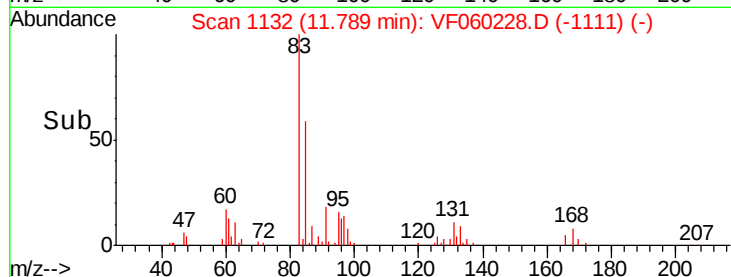
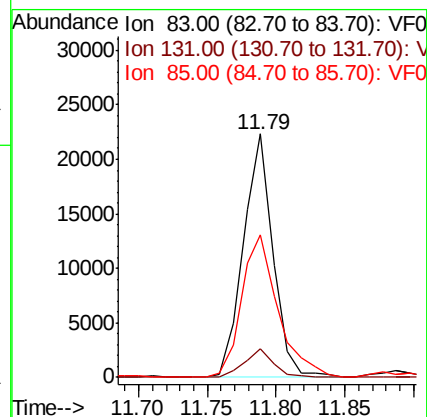
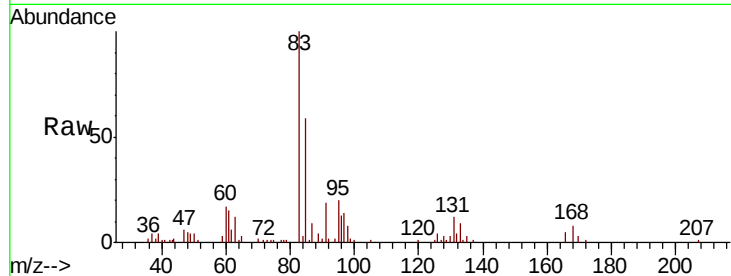
Tot Ion: 83 Resp: 33526

Ion Ratio Lower Upper

83 100

131 11.8 5.5 16.4

85 58.6 31.1 93.5



#76

1,2,3-Trichloropropane

Concen: 19.25 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VF060228.D

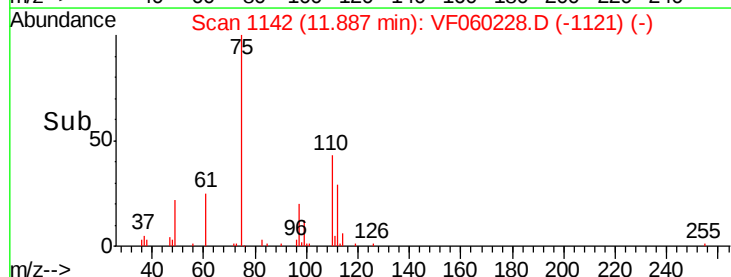
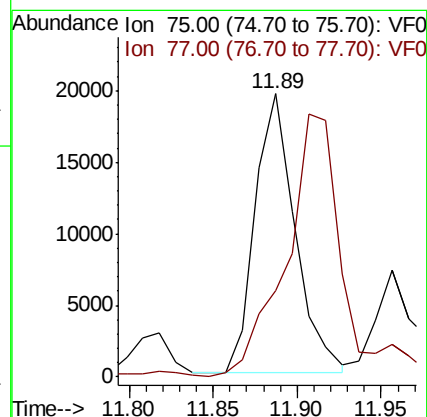
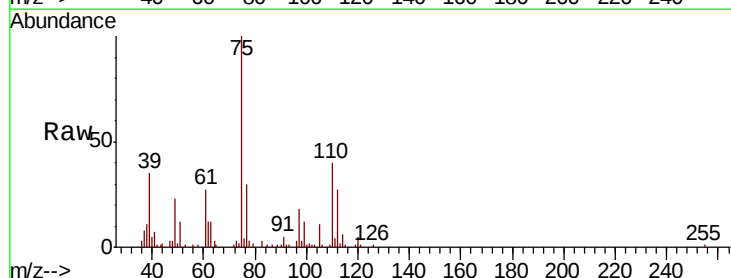
Acq: 10 Sep 2018 12:13

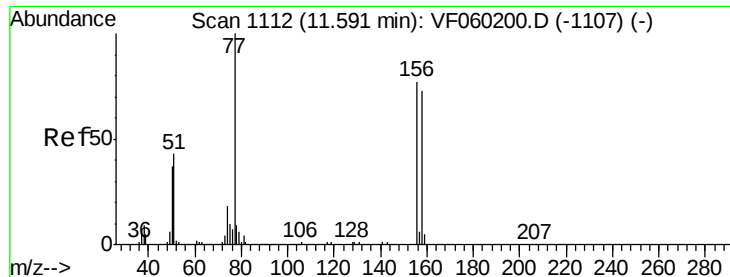
Tgt Ion: 75 Resp: 32216

Ion Ratio Lower Upper

75 100

77 30.4 14.6 43.8





#77

Bromobenzene

Concen: 21.13 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

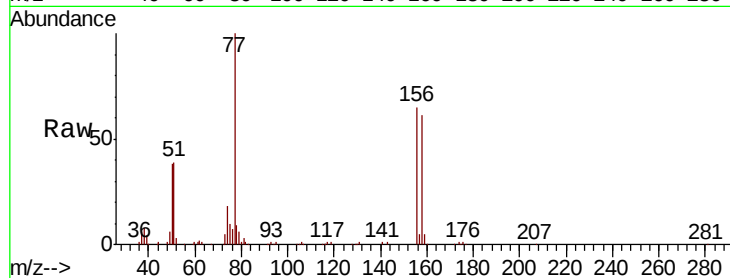
Tot Ion:156 Resp: 58095

Ion Ratio Lower Upper

156 100

77 153.3 64.8 194.3

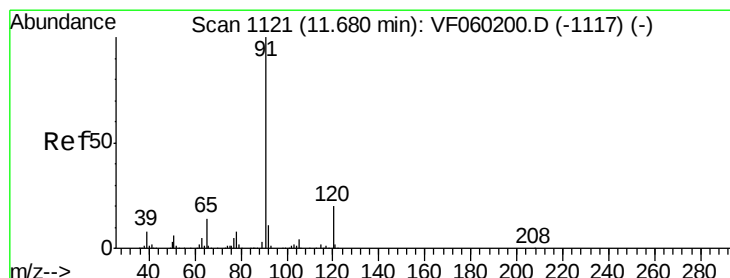
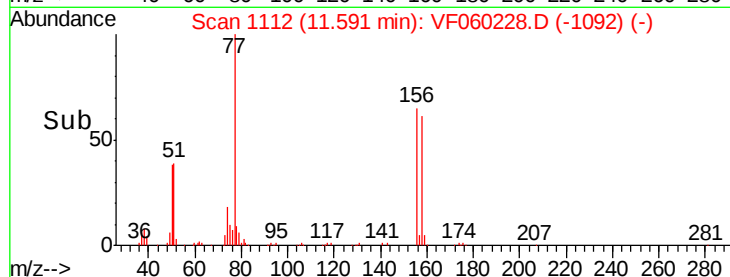
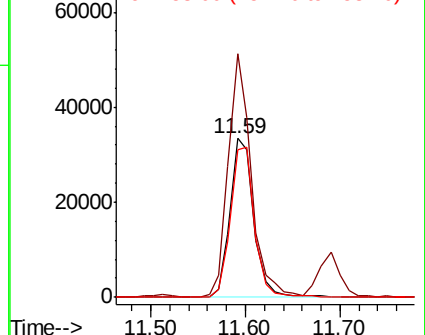
158 93.0 47.3 141.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 22.51 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF060228.D

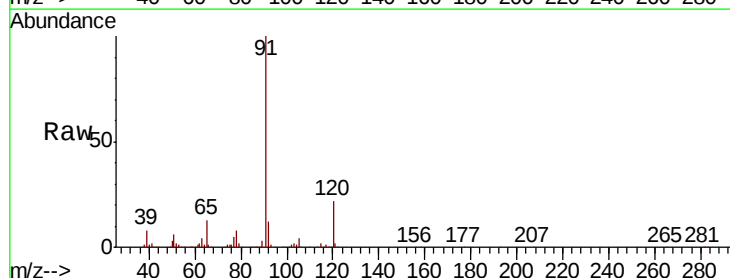
Acq: 10 Sep 2018 12:13

Tgt Ion: 91 Resp: 283207

Ion Ratio Lower Upper

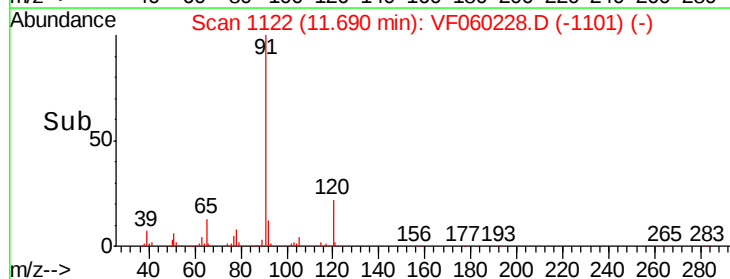
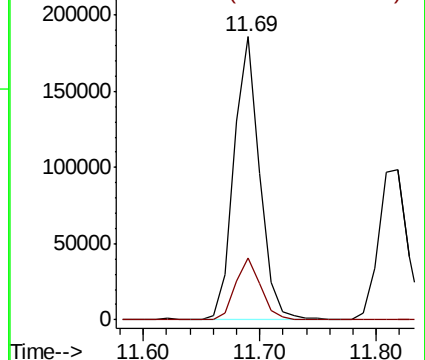
91 100

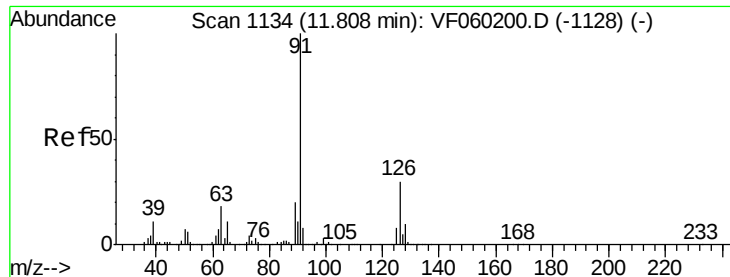
120 21.9 9.8 29.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.94 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

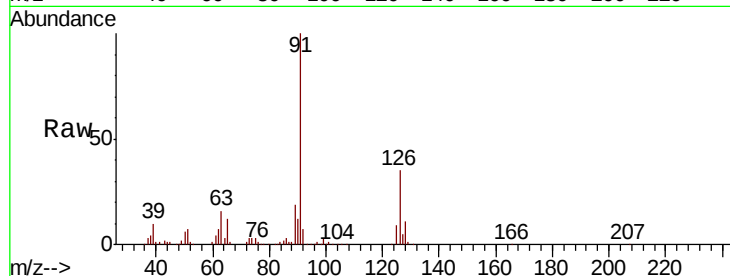
VF0910SBS01

Tot Ion: 91 Resp: 166801

Ion Ratio Lower Upper

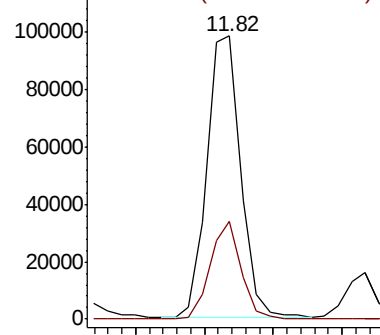
91 100

126 34.6 15.2 45.5

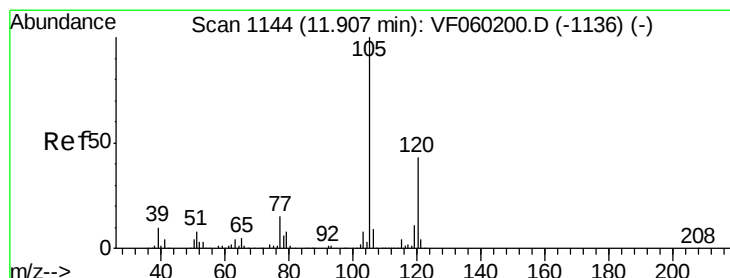
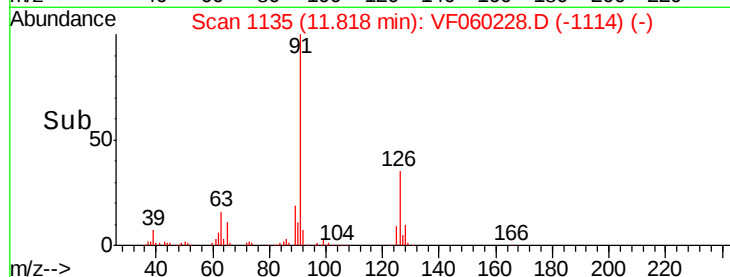


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 22.77 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF060228.D

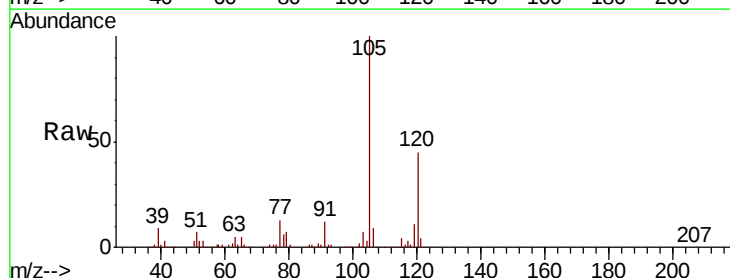
Acq: 10 Sep 2018 12:13

Tgt Ion:105 Resp: 211075

Ion Ratio Lower Upper

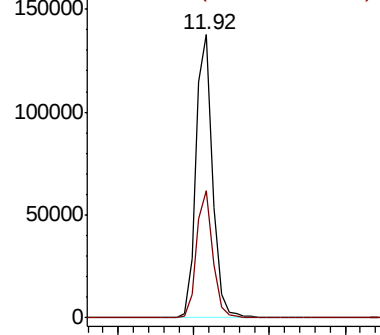
105 100

120 45.1 21.6 64.8

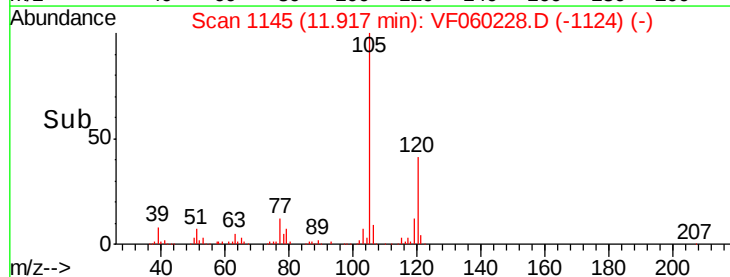


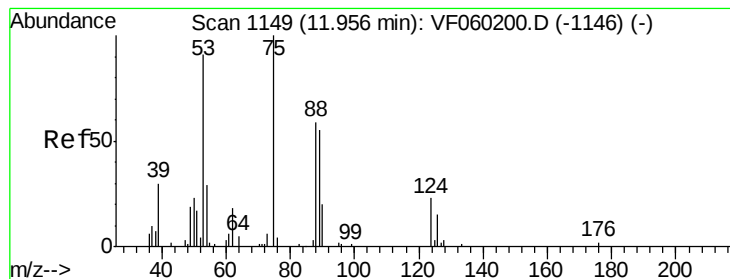
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 24.79 ug/l

RT: 11.96 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

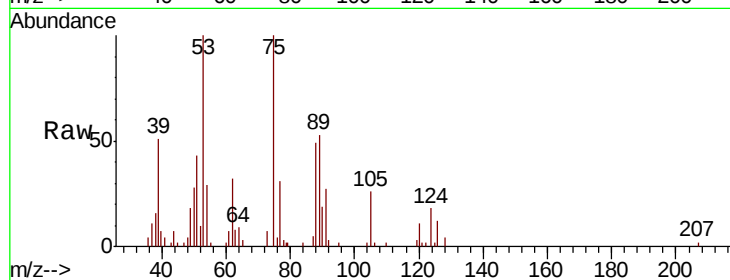
Tot Ion: 75 Resp: 9160

Ion Ratio Lower Upper

75 100

53 100.3 76.5 114.7

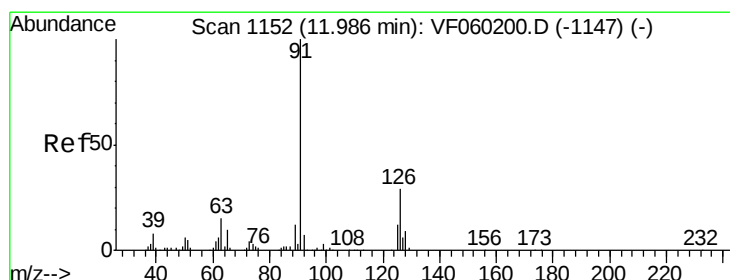
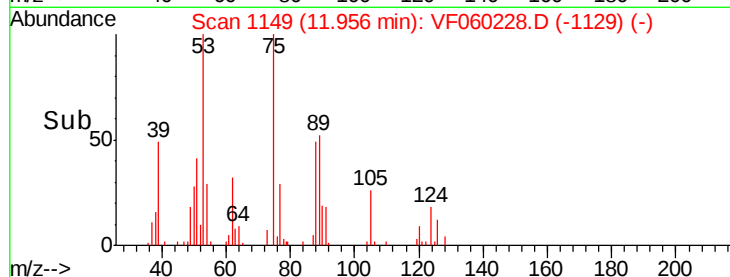
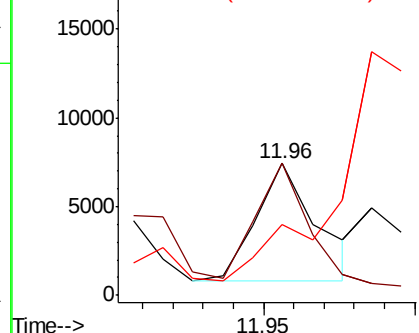
89 53.3 46.5 69.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 21.10 ug/l

RT: 11.99 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF060228.D

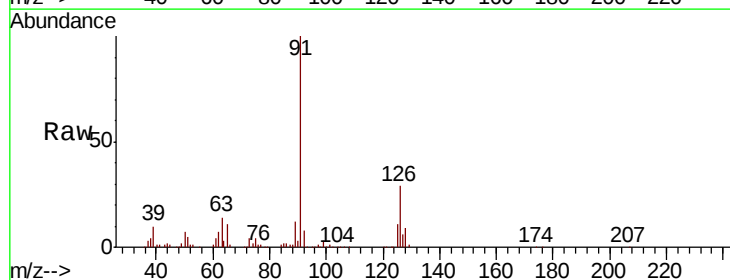
Acq: 10 Sep 2018 12:13

Tgt Ion: 91 Resp: 178010

Ion Ratio Lower Upper

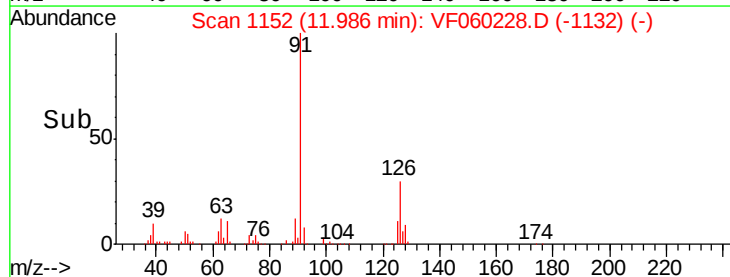
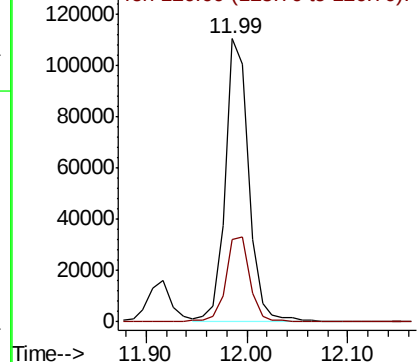
91 100

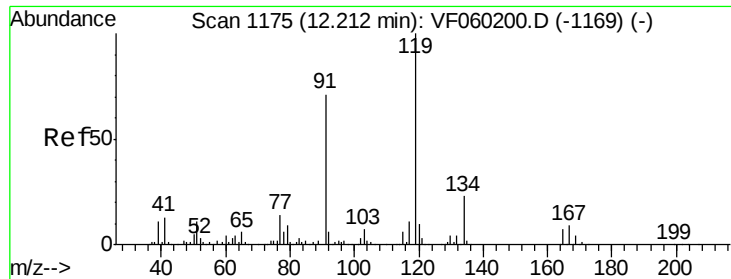
126 29.3 14.4 43.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 22.94 ug/l

RT: 12.21 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

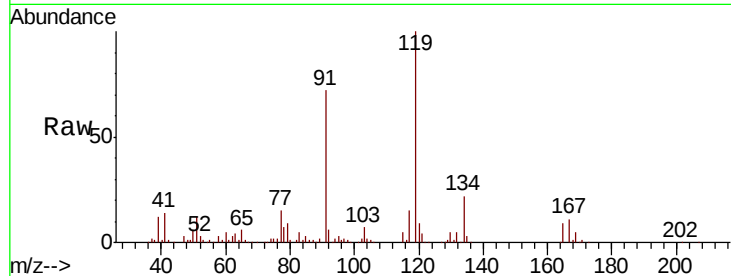
Tot Ion:119 Resp: 193804

Ion Ratio Lower Upper

119 100

91 72.1 35.8 107.4

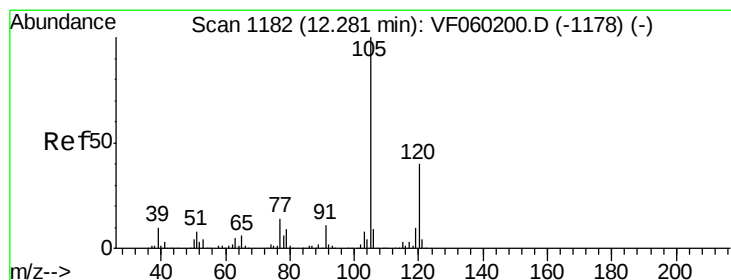
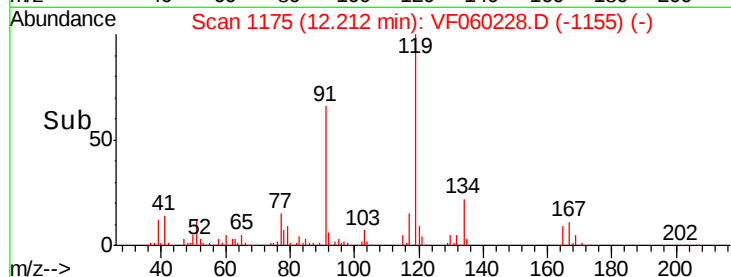
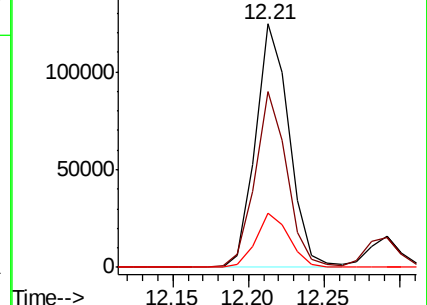
134 22.0 11.6 34.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 22.45 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VF060228.D

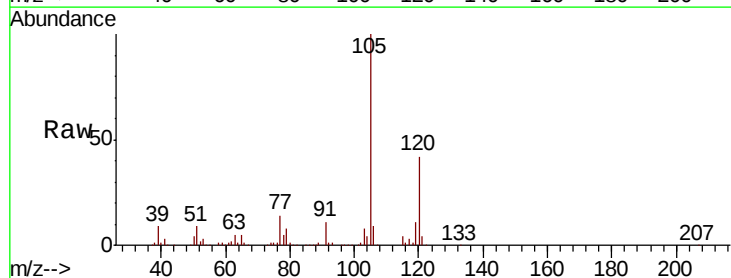
Acq: 10 Sep 2018 12:13

Tgt Ion:105 Resp: 211427

Ion Ratio Lower Upper

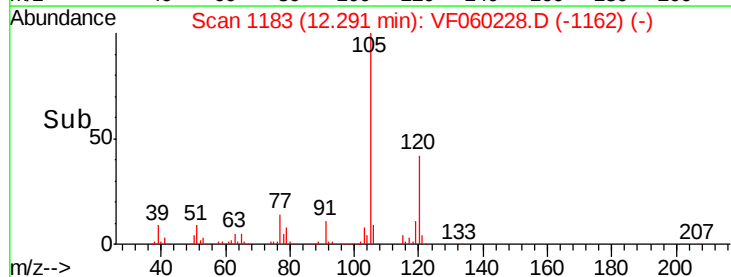
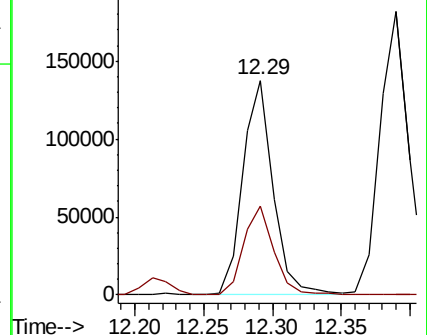
105 100

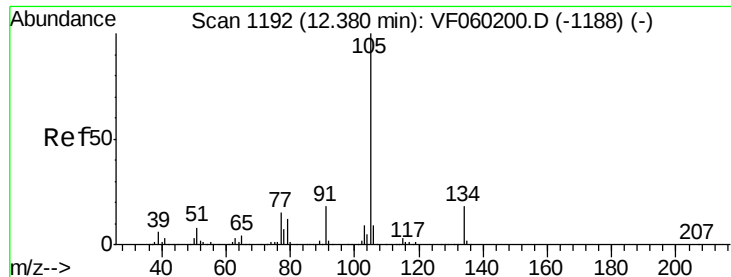
120 41.7 20.2 60.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

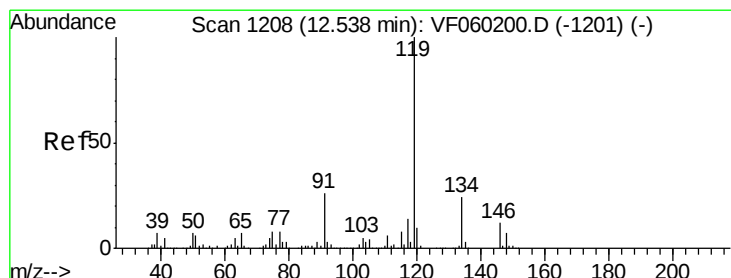
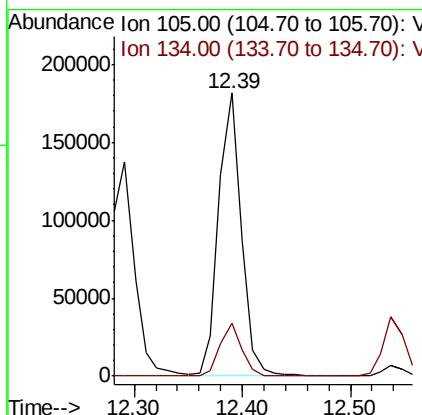
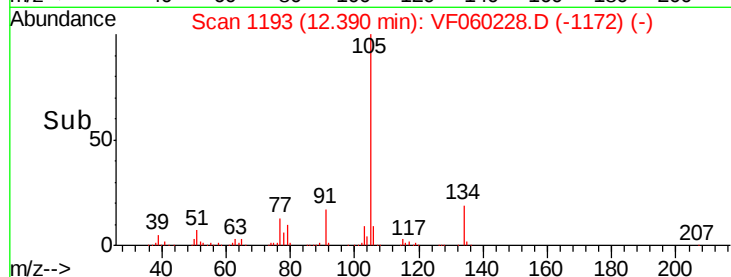
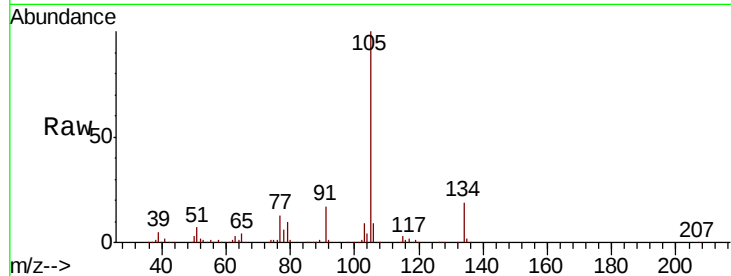




#85
 sec-Butylbenzene
 Concen: 22.82 ug/l
 RT: 12.39 min Scan# 1193
 Delta R.T. 0.01 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

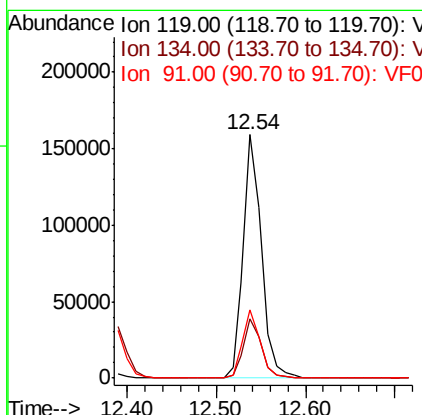
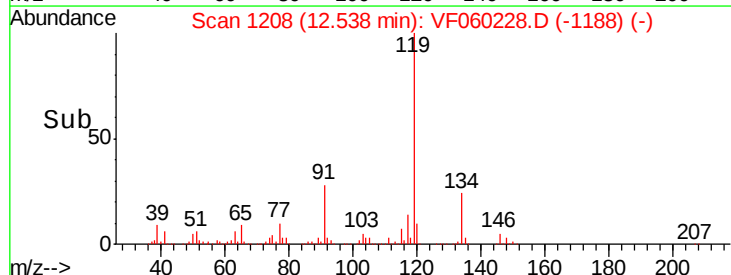
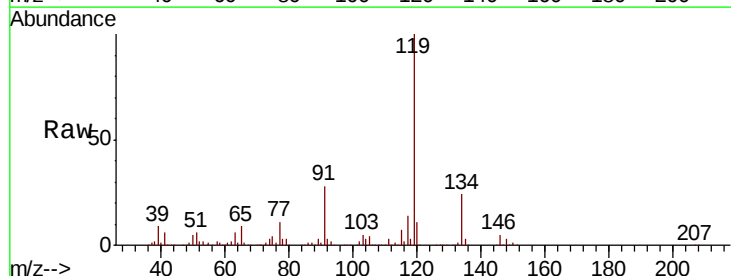
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBS01

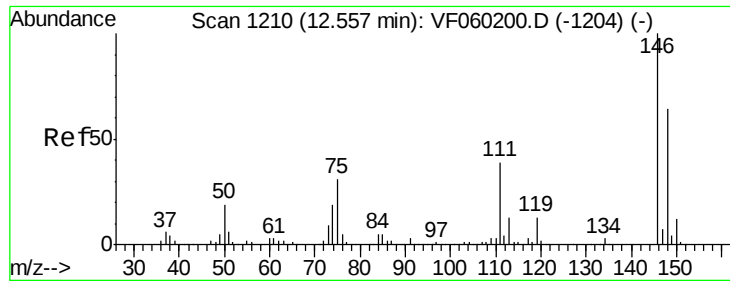
Tot Ion:105 Resp: 265916
 Ion Ratio Lower Upper
 105 100
 134 18.5 8.8 26.5



#86
 p-Isopropyltoluene
 Concen: 22.00 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

Tgt Ion:119 Resp: 227679
 Ion Ratio Lower Upper
 119 100
 134 24.1 12.0 36.0
 91 28.3 12.9 38.7

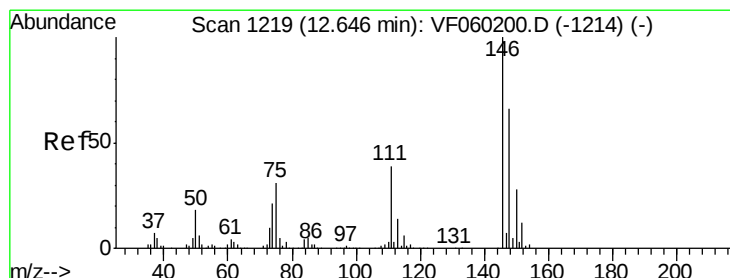
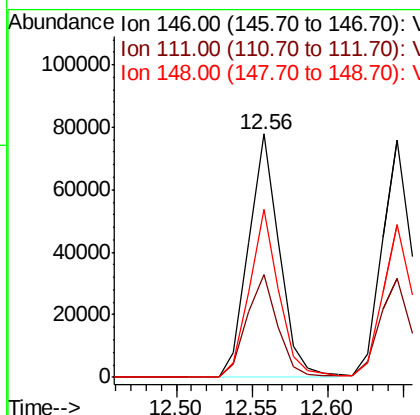
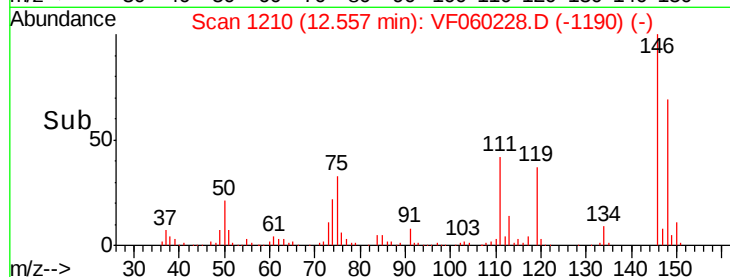
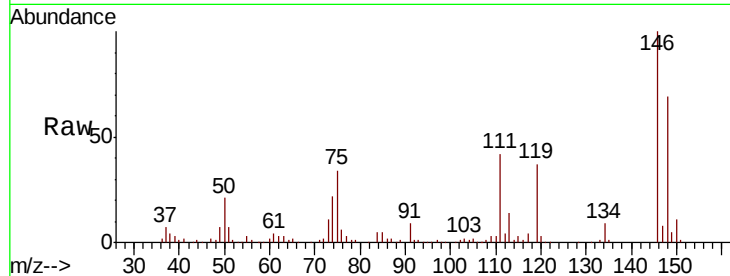




#87
 1,3-Dichlorobenzene
 Concen: 22.17 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. 0.00 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

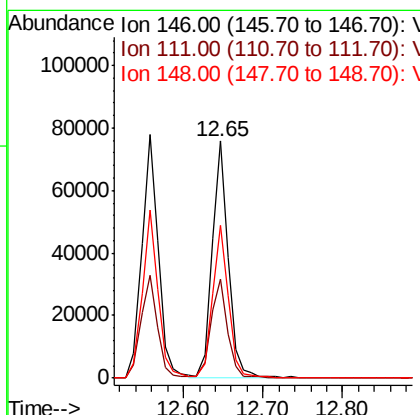
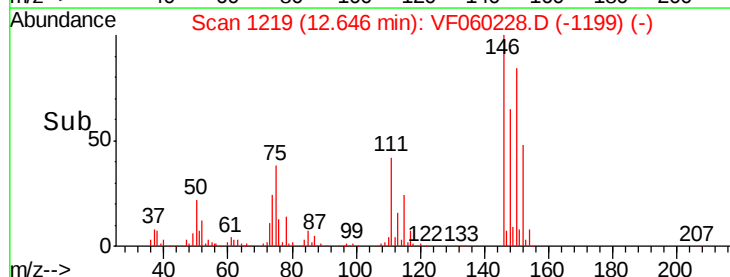
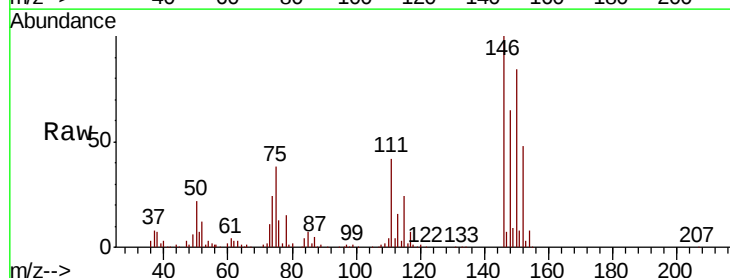
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBS01

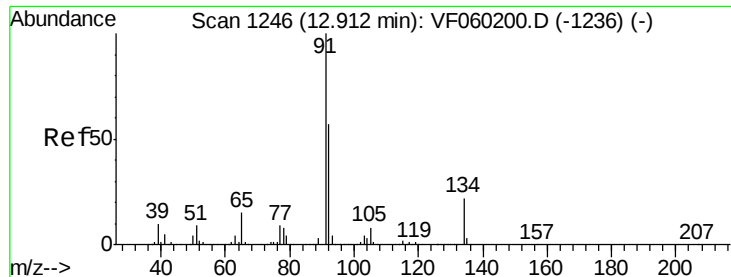
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	19.7	59.1
148	69.0	32.0	96.0



#88
 1,4-Dichlorobenzene
 Concen: 21.84 ug/l
 RT: 12.65 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	19.7	59.1
148	64.6	33.1	99.5

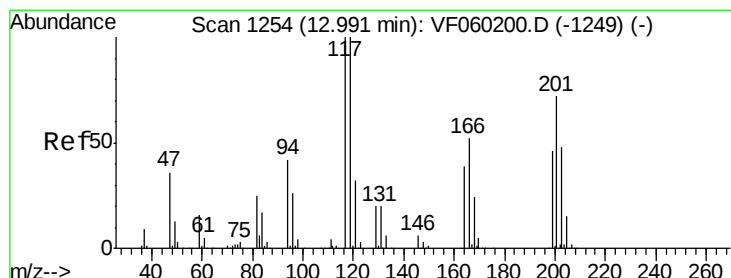
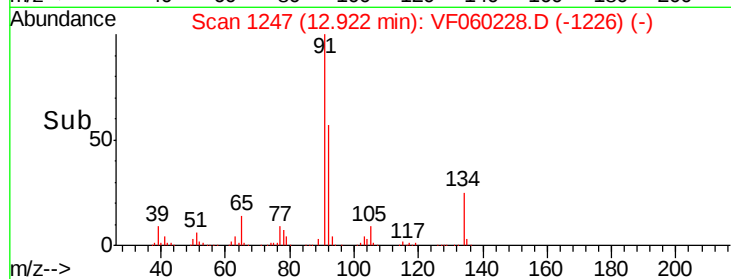
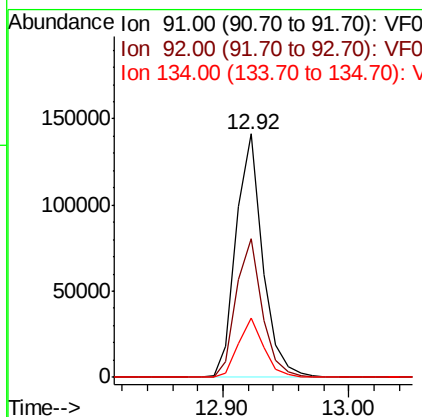
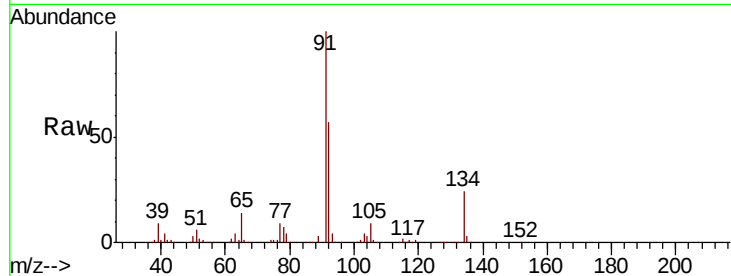




#89
n-Butylbenzene
Concen: 20.49 ug/l
RT: 12.92 min Scan# 1247
Delta R.T. 0.01 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

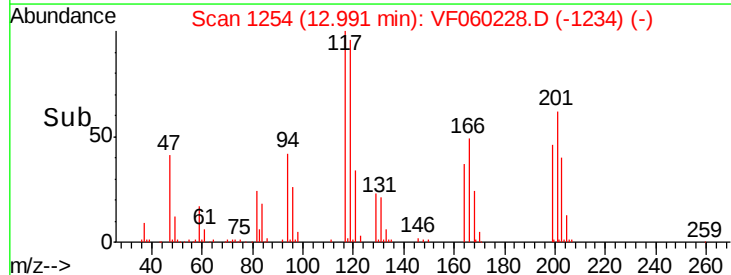
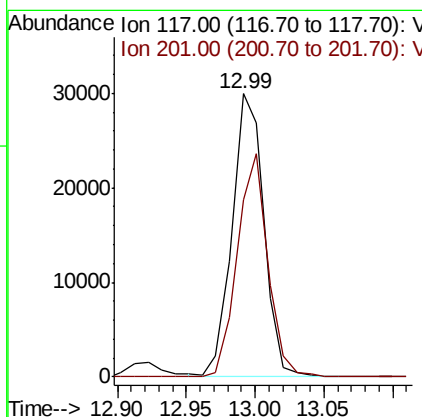
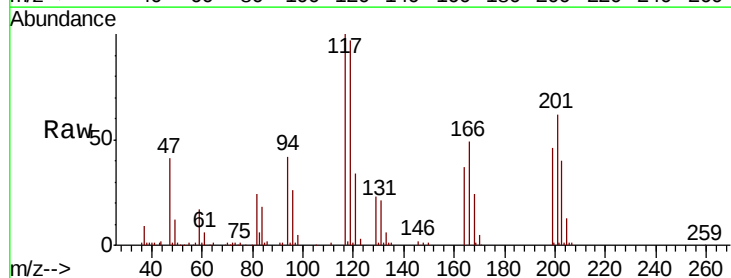
Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

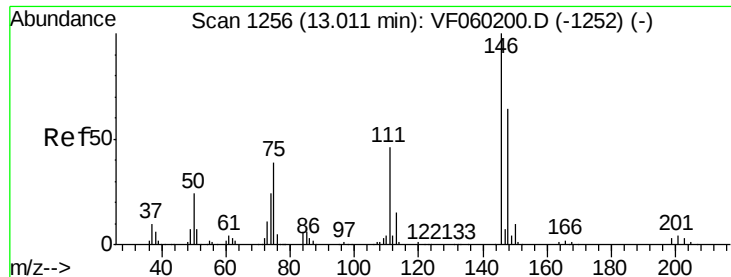
Tot Ion: 91 Resp: 205103
Ion Ratio Lower Upper
91 100
92 56.9 28.4 85.3
134 24.5 11.1 33.3



#90
Hexachloroethane
Concen: 22.95 ug/l
RT: 12.99 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion: 117 Resp: 48137
Ion Ratio Lower Upper
117 100
201 62.7 35.7 107.1





#91

1,2-Dichlorobenzene

Concen: 22.00 ug/l

RT: 13.02 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBS01

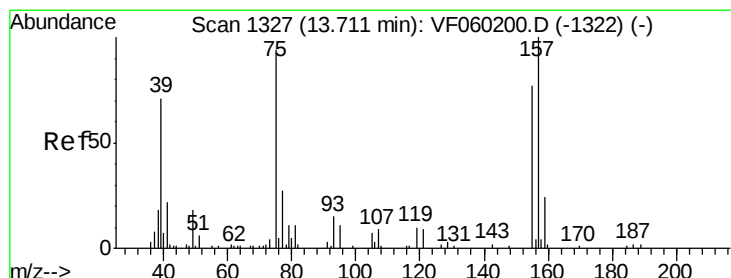
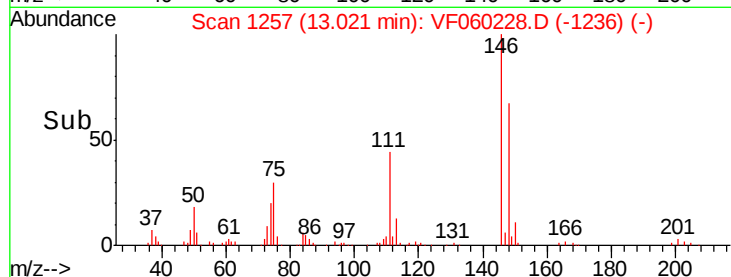
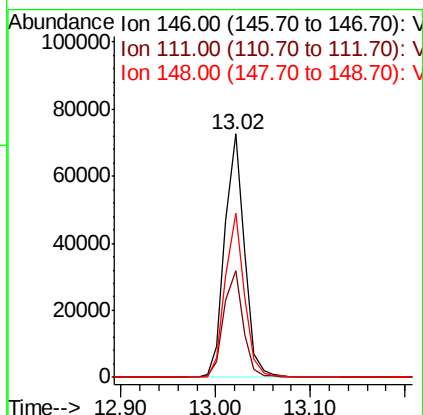
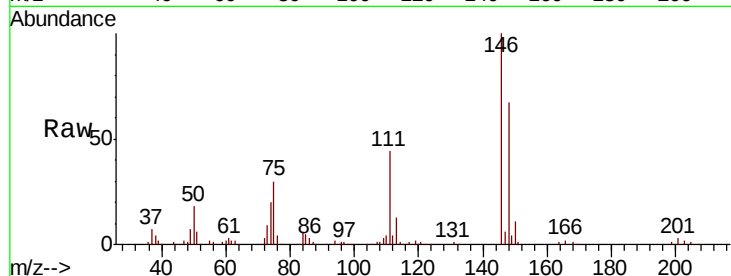
Tot Ion:146 Resp: 104983

Ion Ratio Lower Upper

146 100

111 43.8 23.0 69.0

148 67.4 32.2 96.6



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.14 ug/l

RT: 13.71 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VF060228.D

Acq: 10 Sep 2018 12:13

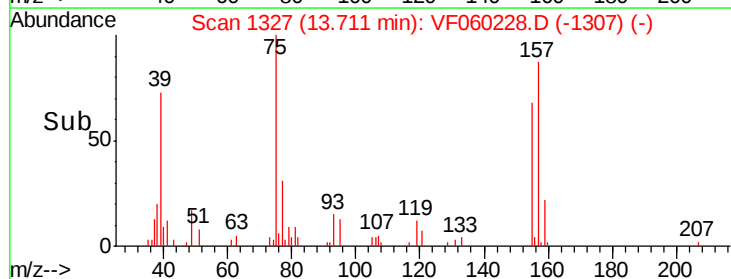
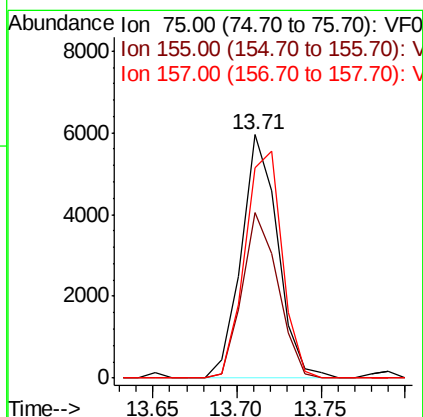
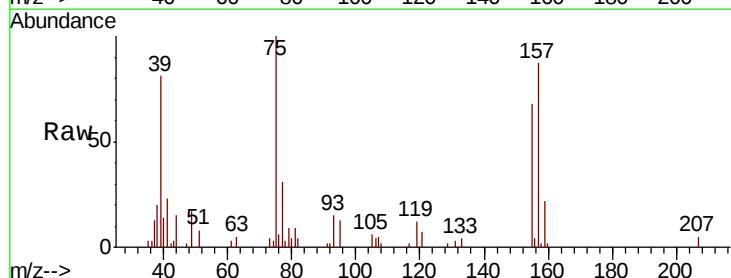
Tgt Ion: 75 Resp: 8923

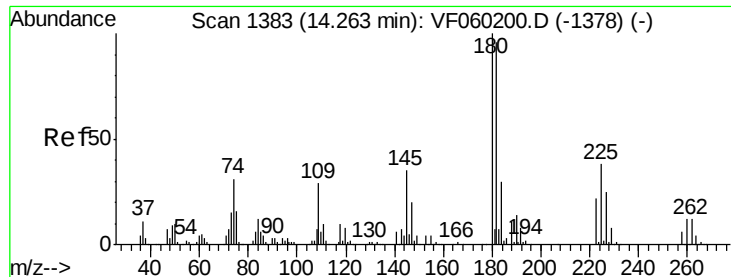
Ion Ratio Lower Upper

75 100

155 68.2 40.8 122.5

157 88.7 53.3 159.9

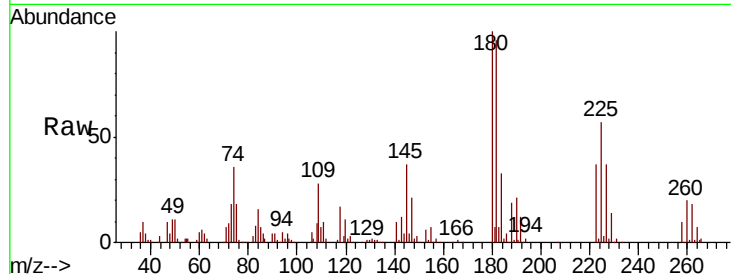




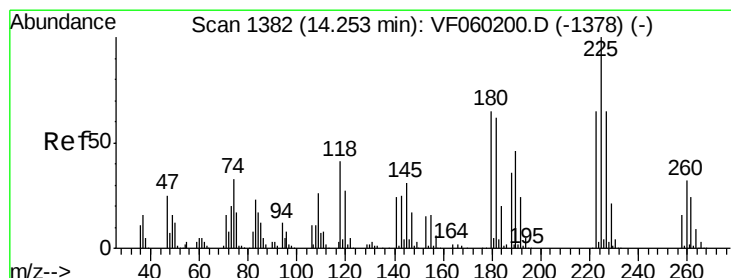
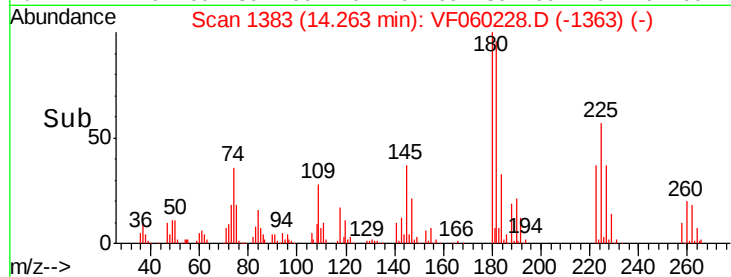
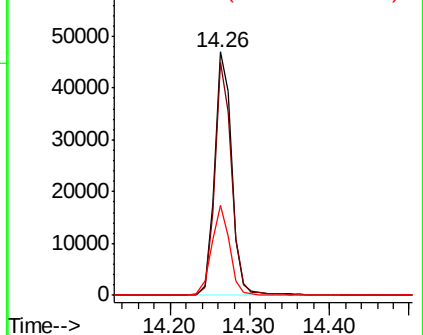
#93
 1,2,4-Trichlorobenzene
 Concen: 19.46 ug/l
 RT: 14.26 min Scan# 1383
 Delta R.T. 0.00 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBS01

Tot Ion:180 Resp: 71742
 Ion Ratio Lower Upper
 180 100
 182 96.0 48.2 144.6
 145 36.9 17.4 52.2

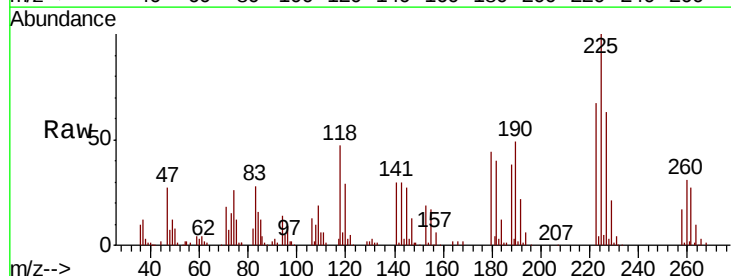


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

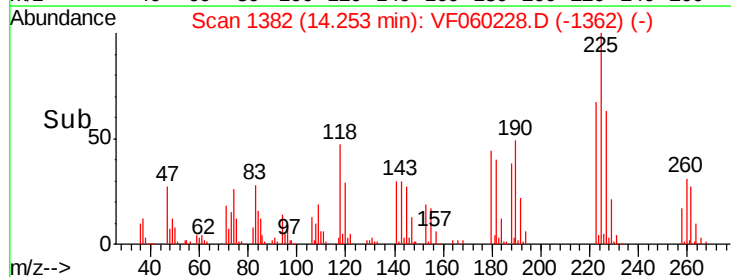
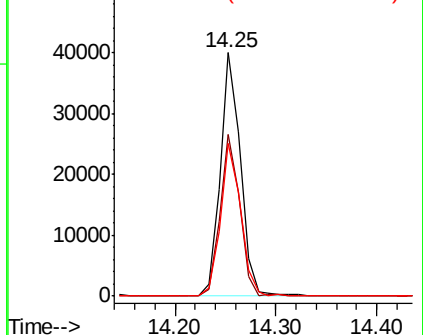


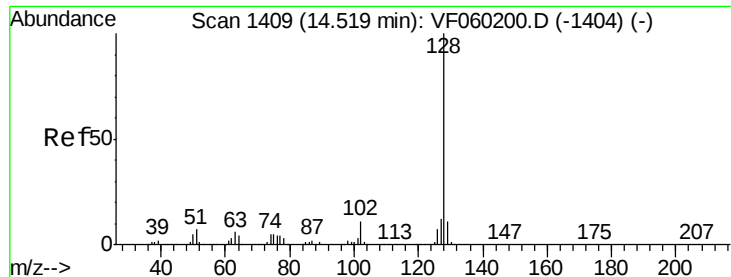
#94
 Hexachlorobutadiene
 Concen: 21.28 ug/l
 RT: 14.25 min Scan# 1382
 Delta R.T. 0.00 min
 Lab File: VF060228.D
 Acq: 10 Sep 2018 12:13

Tgt Ion:225 Resp: 55930
 Ion Ratio Lower Upper
 225 100
 223 66.6 32.3 96.8
 227 63.0 32.4 97.0



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

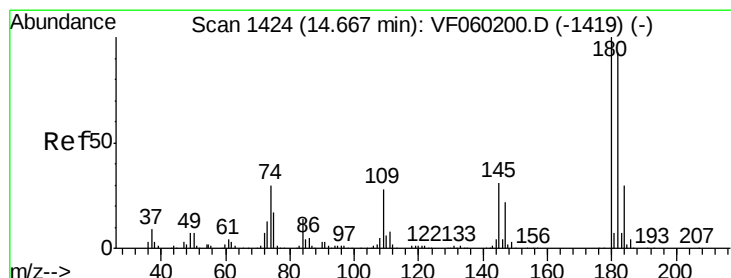
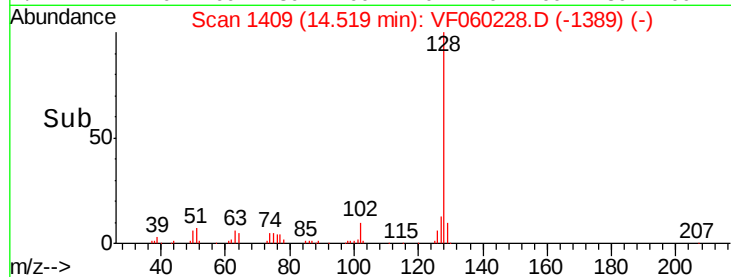
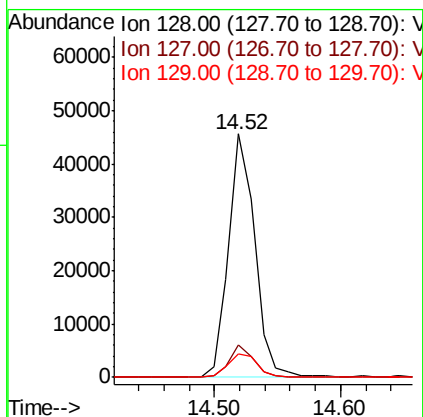
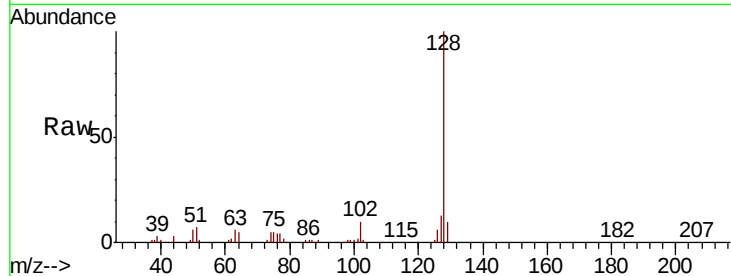




#95
Naphthalene
Concen: 13.44 ug/l
RT: 14.52 min Scan# 1409
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0910SBS01

Tot Ion:128 Resp: 65796
Ion Ratio Lower Upper
128 100
127 13.3 9.9 14.9
129 9.6 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 19.10 ug/l
RT: 14.67 min Scan# 1424
Delta R.T. 0.00 min
Lab File: VF060228.D
Acq: 10 Sep 2018 12:13

Tgt Ion:180 Resp: 66089
Ion Ratio Lower Upper
180 100
182 92.2 46.6 139.7
145 32.6 15.7 47.0

