

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022819\
 Data File : VF061787.D
 Acq On : 28 Feb 2019 15:01
 Operator : VA/AP
 Sample : VF0228SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Quant Time: Mar 01 00:18:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	302846	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	459952	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	381492	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	233665	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	123498	55.61	ug/l	-0.03
Spiked Amount			Recovery	=	111.22%	
35) Dibromofluoromethane	4.09	113	176598	51.70	ug/l	-0.03
Spiked Amount			Recovery	=	103.40%	
50) Toluene-d8	7.54	98	489892	49.89	ug/l	-0.02
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	11.40	95	206115	51.88	ug/l	-0.02
Spiked Amount			Recovery	=	103.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	94967	27.306	ug/l	96
3) Chloromethane	1.11	50	90795	24.882	ug/l	97
4) Vinyl Chloride	1.14	62	89317	26.330	ug/l	97
5) Bromomethane	1.33	94	57979	24.834	ug/l	81
6) Chloroethane	1.39	64	42244	25.270	ug/l	93
7) Trichlorofluoromethane	1.48	101	84454	20.641	ug/l	98
8) Diethyl Ether	1.63	74	22873	22.183	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.83	101	72544	24.578	ug/l	93
10) Methyl Iodide	1.85	142	27357	4.852	ug/l	95
11) Tert butyl alcohol	2.57	59	16471	128.152	ug/l	96
12) 1,1-Dichloroethene	1.80	96	50801	19.576	ug/l	95
13) Acrolein	1.99	56	13530	83.759	ug/l	92
14) Allyl chloride	2.09	41	72761	22.849	ug/l	96
15) Acrylonitrile	2.93	53	46638	102.301	ug/l	92
16) Acetone	2.23	43	60545	127.065	ug/l #	88
17) Carbon Disulfide	1.76	76	27957	3.427	ug/l	99
18) Methyl Acetate	2.34	43	28575	26.621	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	115375	26.014	ug/l	98
20) Methylene Chloride	2.17	84	28380	9.051	ug/l	96
21) trans-1,2-Dichloroethene	2.30	96	64765	22.958	ug/l	97
22) Diisopropyl ether	2.79	45	184116	24.086	ug/l	95
23) Vinyl Acetate	3.18	43	414919	111.132	ug/l	97
24) 1,1-Dichloroethane	2.86	63	112640	24.350	ug/l	99
25) 2-Butanone	4.32	43	116716	112.141	ug/l	95
26) 2,2-Dichloropropane	3.58	77	49127	25.072	ug/l	93
27) cis-1,2-Dichloroethene	3.46	96	86524	23.367	ug/l	98
28) Bromochloromethane	3.70	49	54799	24.689	ug/l	87
29) Tetrahydrofuran	4.05	42	53394	112.872	ug/l	99
30) Chloroform	3.85	83	127944	24.321	ug/l	100
31) Cyclohexane	3.68	56	64990	12.978	ug/l	92
32) 1,1,1-Trichloroethane	4.08	97	71078	20.626	ug/l	96
36) 1,1-Dichloropropene	4.26	75	96713	21.226	ug/l	90
37) Ethyl Acetate	4.10	43	45510	21.504	ug/l	97
38) Carbon Tetrachloride	3.98	117	70200	22.312	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	116228	21.569	ug/l	98
40) Benzene	4.62	78	274255	23.012	ug/l	99
41) Methacrylonitrile	4.72	41	24887	22.995	ug/l #	89
42) 1,2-Dichloroethane	4.93	62	64744	22.711	ug/l	95
43) Isopropyl Acetate	6.94	43	55534	22.169	ug/l	93
44) Trichloroethene	5.49	130	91038	23.622	ug/l	99
45) 1,2-Dichloropropane	6.22	63	68172	23.664	ug/l	99
46) Dibromomethane	6.08	93	39591	22.321	ug/l	97
47) Bromodichloromethane	6.37	83	90469	23.291	ug/l	92
48) Methyl methacrylate	6.71	41	33387	22.147	ug/l	97
49) 1,4-Dioxane	6.70	88	6506	459.090	ug/l #	76
51) 4-Methyl-2-Pentanone	8.24	43	193370	108.031	ug/l	98
52) Toluene	7.61	92	158857	21.978	ug/l	97
53) t-1,3-Dichloropropene	8.26	75	73876	22.853	ug/l	97
54) cis-1,3-Dichloropropene	7.29	75	100569	23.356	ug/l	96
55) 1,1,2-Trichloroethane	8.48	97	46622	21.953	ug/l	93
56) Ethyl methacrylate	8.61	69	51793	21.905	ug/l	93
57) 1,3-Dichloropropane	8.84	76	80537	22.721	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.28	63	42213	103.477	ug/l	93
59) 2-Hexanone	9.48	43	141498	112.773	ug/l	100
60) Dibromochloromethane	8.70	129	66641	22.545	ug/l	100
61) 1,2-Dibromoethane	8.97	107	49440	21.464	ug/l	99
64) Tetrachloroethene	8.14	164	77400	24.822	ug/l	96
65) Chlorobenzene	9.78	112	180159	23.272	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.92	131	74718	24.631	ug/l	97
67) Ethyl Benzene	9.89	91	303290	23.559	ug/l	98
68) m/p-Xylenes	10.12	106	243690	49.460	ug/l	100
69) o-Xylene	10.70	106	127335	24.220	ug/l	96
70) Styrene	10.78	104	177105	23.813	ug/l	99
71) Bromoform	10.76	173	39274	23.843	ug/l	95
73) Isopropylbenzene	11.11	105	355098	21.344	ug/l	100
74) N-amyl acetate	11.36	43	89923	22.519	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.69	83	59707	20.033	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	41579	20.519	ug/l	98
77) Bromobenzene	11.49	156	85806	20.878	ug/l	97
78) n-propylbenzene	11.59	91	403927	21.158	ug/l	98
79) 2-Chlorotoluene	11.71	91	230106	21.522	ug/l	92
80) 1,3,5-Trimethylbenzene	11.81	105	291347	21.911	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	26181	26.950	ug/l	99
82) 4-Chlorotoluene	11.89	91	231679	20.877	ug/l	99
83) tert-Butylbenzene	12.12	119	325563	22.106	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	288933	21.872	ug/l	99
85) sec-Butylbenzene	12.30	105	415073	21.795	ug/l	99
86) p-Isopropyltoluene	12.46	119	354060	22.152	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	171929	21.458	ug/l	97
88) 1,4-Dichlorobenzene	12.55	146	169937	22.053	ug/l	97
89) n-Butylbenzene	12.83	91	333583	22.102	ug/l	99
90) Hexachloroethane	12.91	117	84276	22.671	ug/l	96
91) 1,2-Dichlorobenzene	12.93	146	168713	22.138	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	9102	19.261	ug/l	85

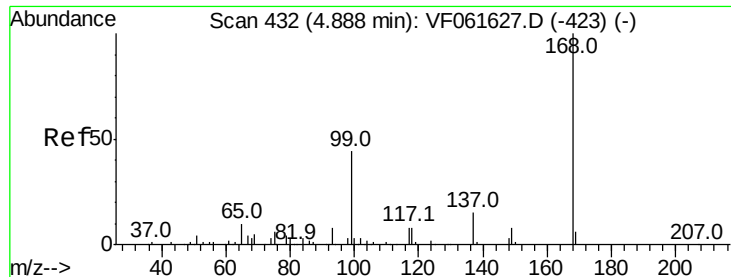
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	115203	21.089	ug/l	98
94) Hexachlorobutadiene	14.18	225	74584	22.108	ug/l	99
95) Naphthalene	14.45	128	199938	20.919	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	108793	21.699	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

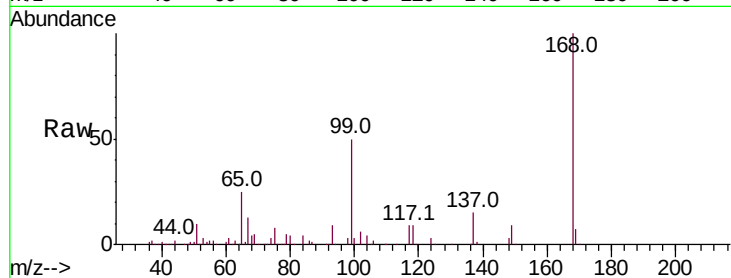
VF0228SBS01

Tot Ion:168 Resp: 302846

Ion Ratio Lower Upper

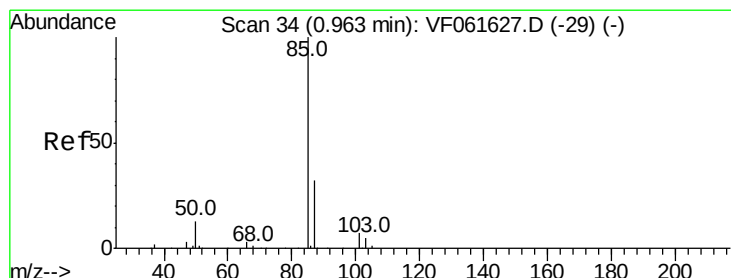
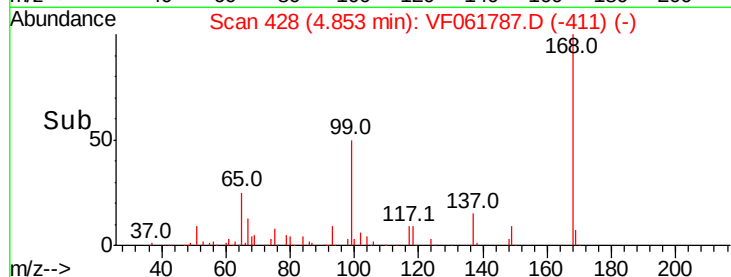
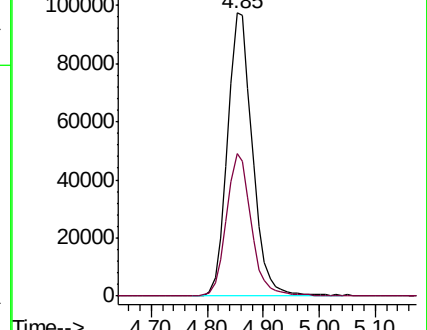
168 100

99 50.4 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 27.306 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061787.D

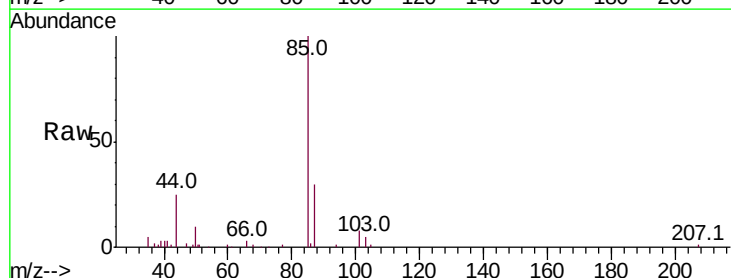
Acq: 28 Feb 2019 15:01

Tgt Ion: 85 Resp: 94967

Ion Ratio Lower Upper

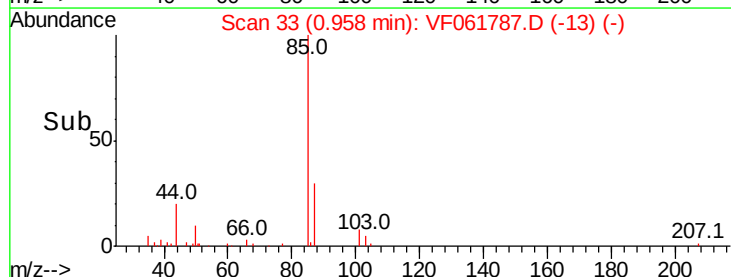
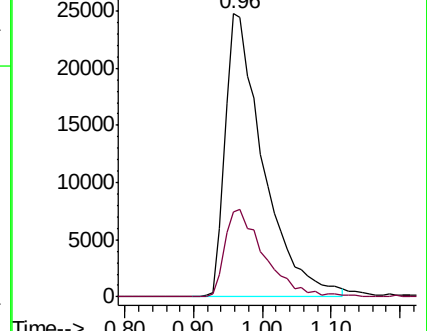
85 100

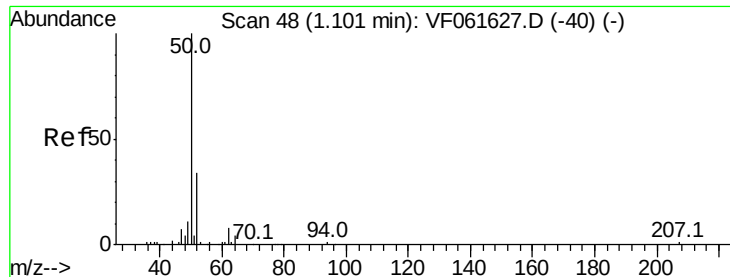
87 30.1 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 24.882 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

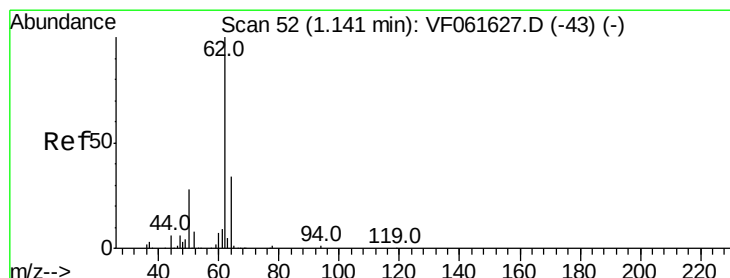
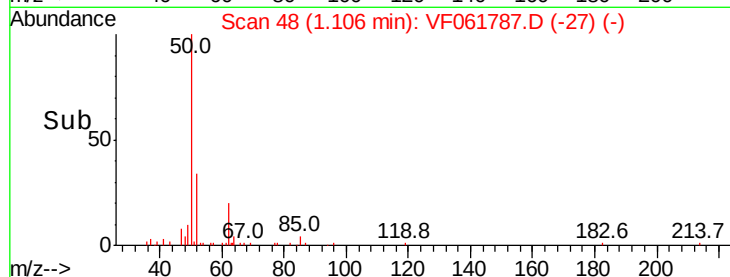
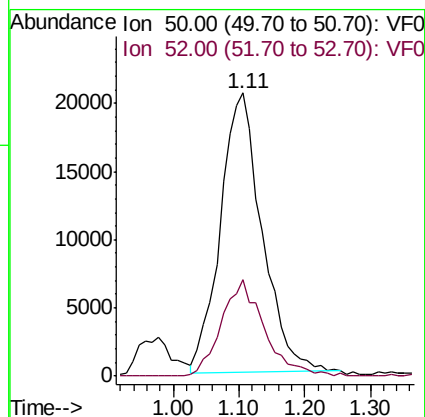
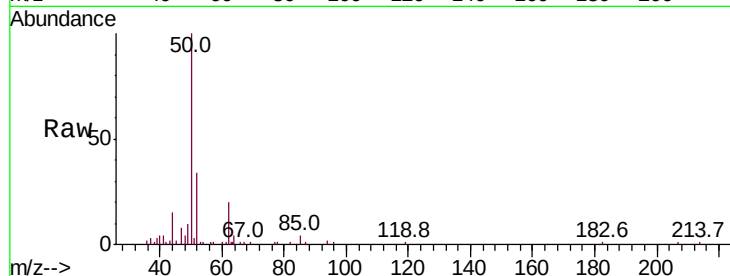
VF0228SBS01

Tot Ion: 50 Resp: 90795

Ion Ratio Lower Upper

50 100

52 34.3 26.2 39.4



#4

Vinyl Chloride

Concen: 26.330 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061787.D

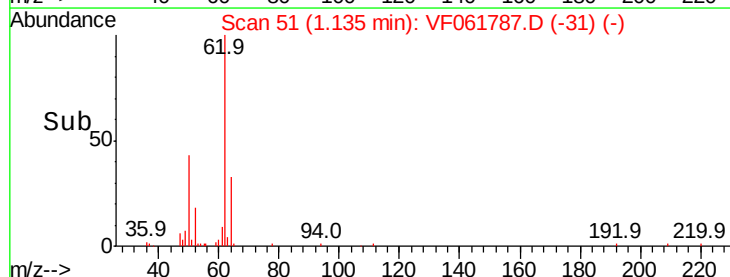
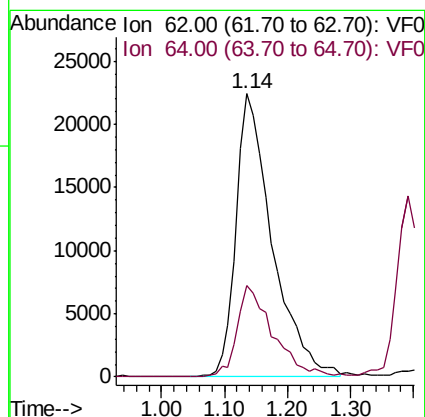
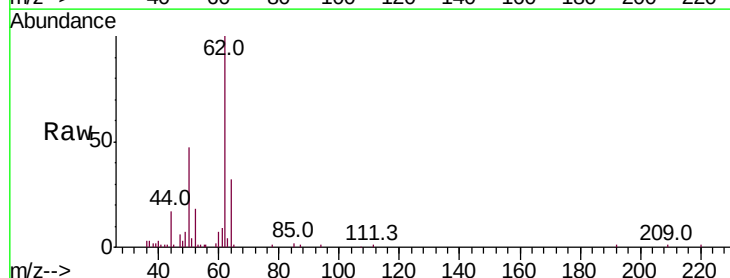
Acq: 28 Feb 2019 15:01

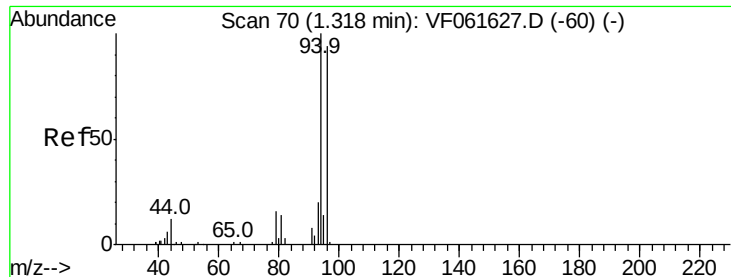
Tgt Ion: 62 Resp: 89317

Ion Ratio Lower Upper

62 100

64 32.4 27.5 41.3





#5

Bromomethane

Concen: 24.834 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

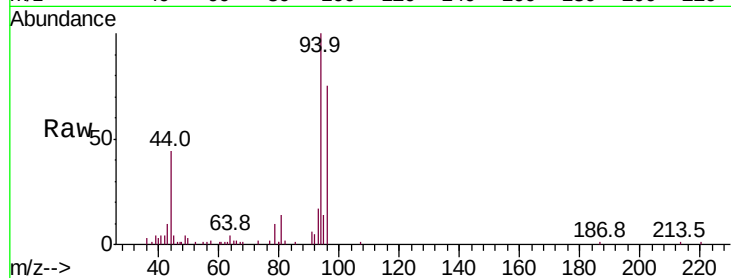
VF0228SBS01

Tot Ion: 94 Resp: 57979

Ion Ratio Lower Upper

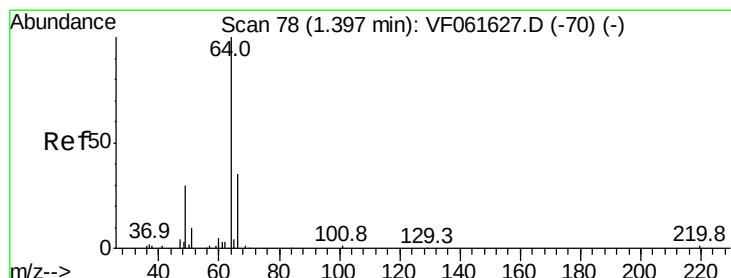
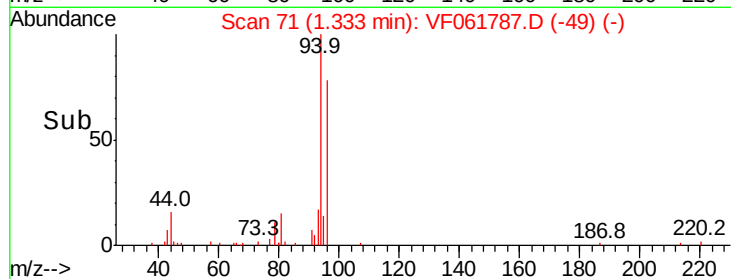
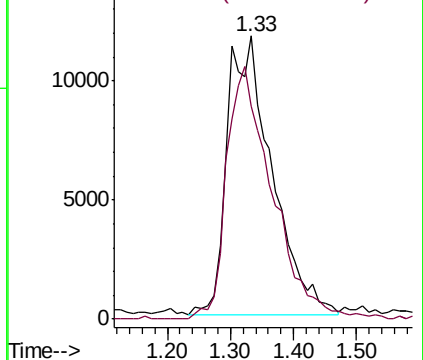
94 100

96 75.2 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 25.270 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061787.D

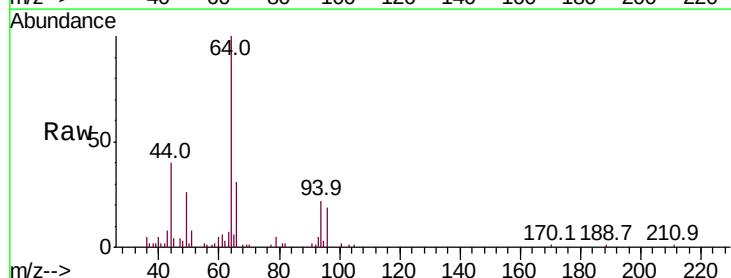
Acq: 28 Feb 2019 15:01

Tgt Ion: 64 Resp: 42244

Ion Ratio Lower Upper

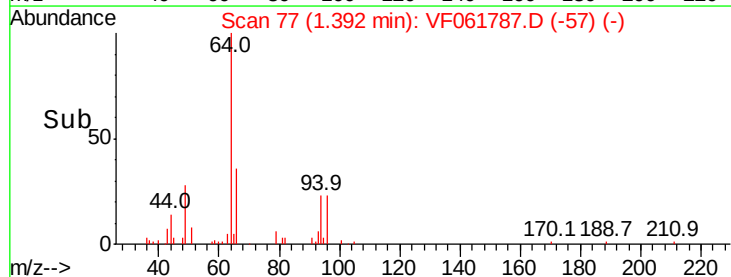
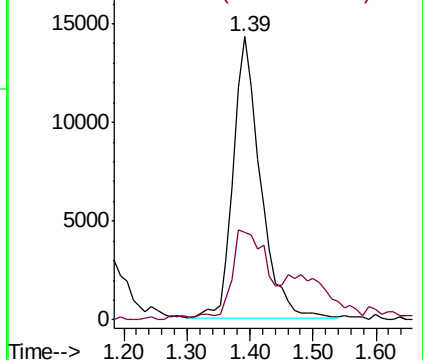
64 100

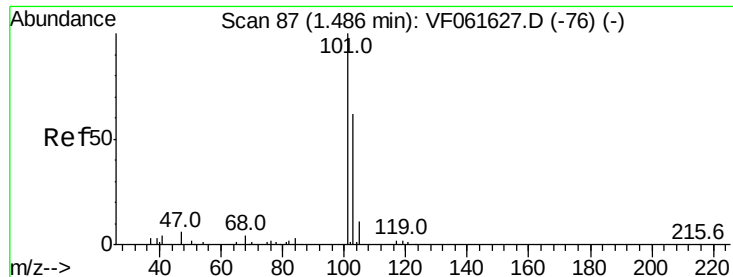
66 31.0 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 20.641 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

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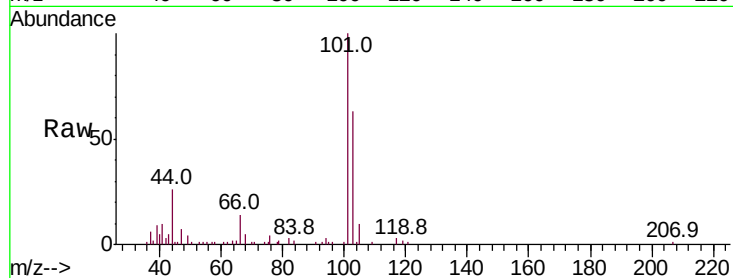
VF0228SBS01

Tot Ion:101 Resp: 84454

Ion Ratio Lower Upper

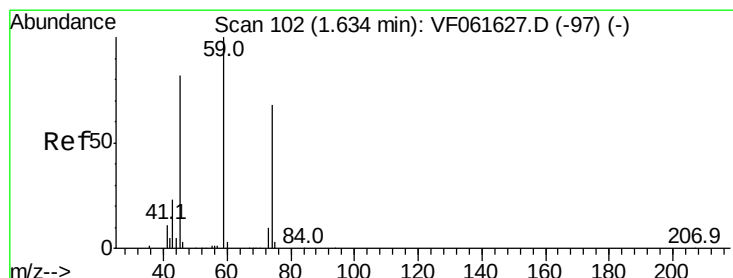
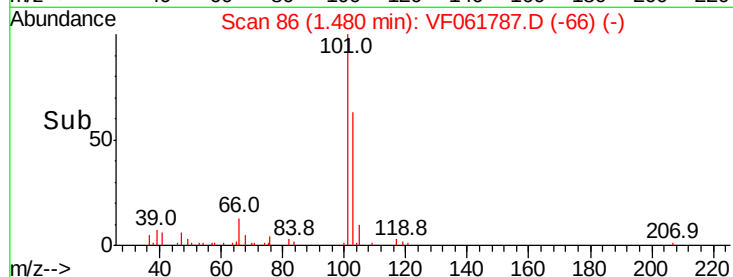
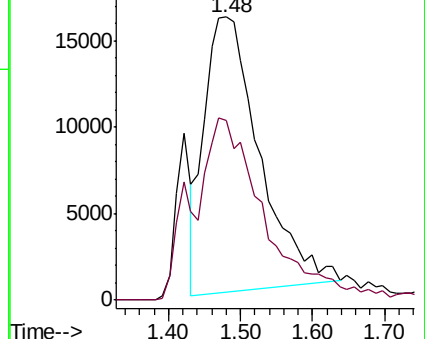
101 100

103 63.5 49.3 73.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 22.183 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061787.D

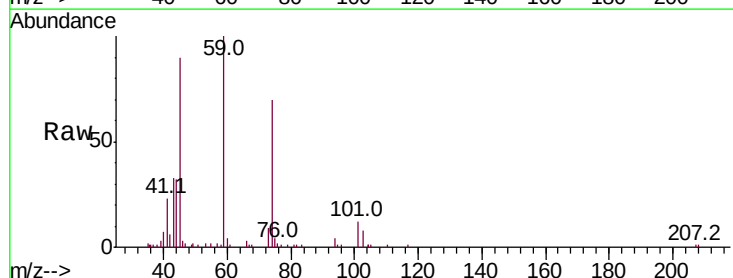
Acq: 28 Feb 2019 15:01

Tgt Ion: 74 Resp: 22873

Ion Ratio Lower Upper

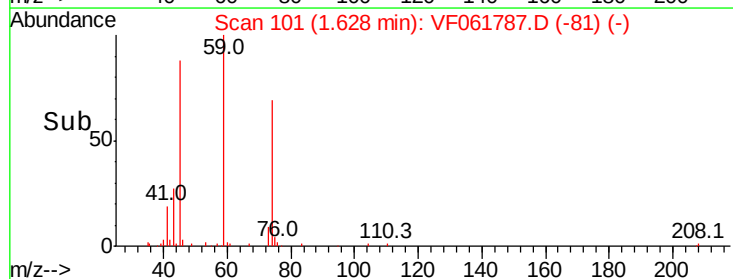
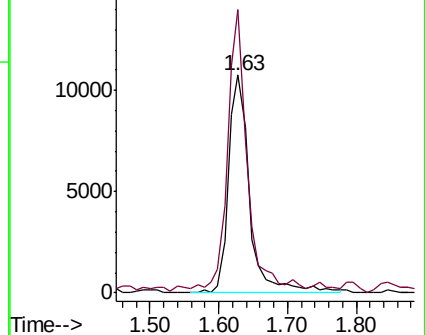
74 100

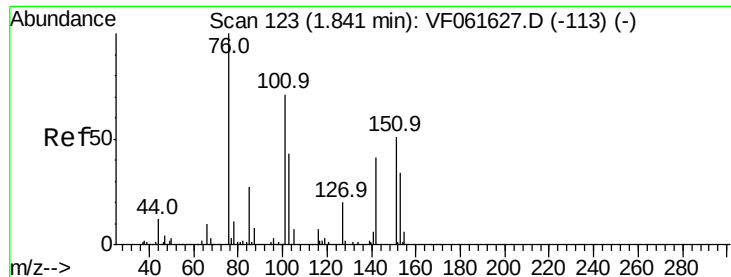
45 129.9 60.8 182.3



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: 24.578 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

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ClientSampleId :

VF0228SBS01

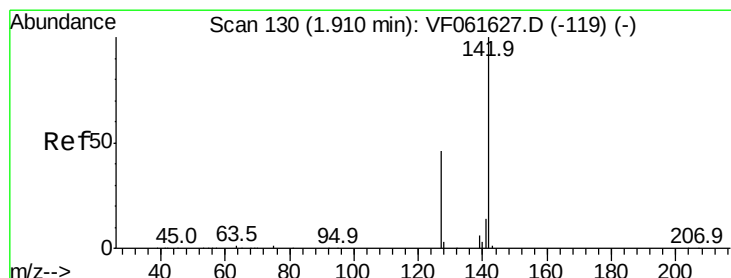
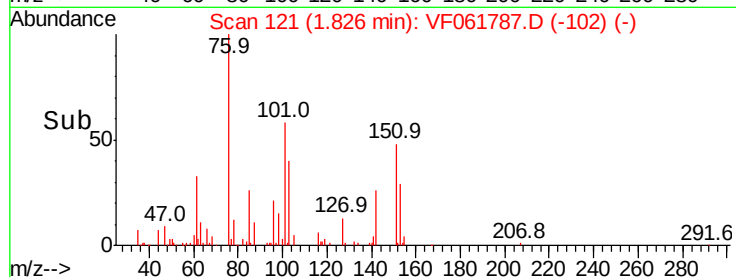
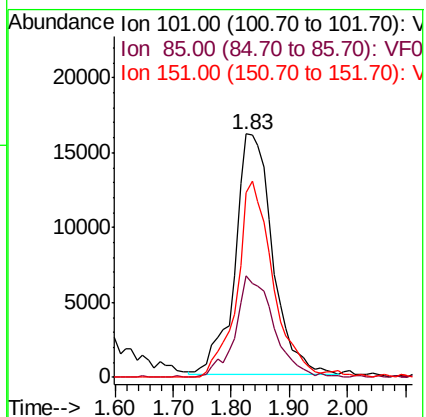
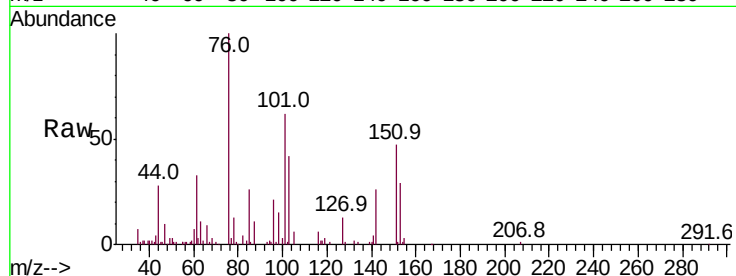
Tot Ion:101 Resp: 72544

Ion Ratio Lower Upper

101 100

85 41.5 29.8 44.6

151 76.0 56.3 84.5



#10

Methyl Iodide

Concen: 4.852 ug/l

RT: 1.85 min Scan# 123

Delta R.T. -0.06 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

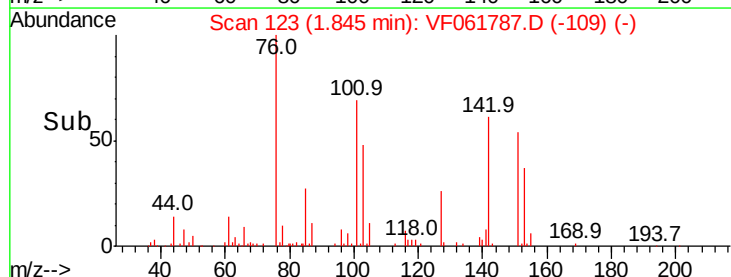
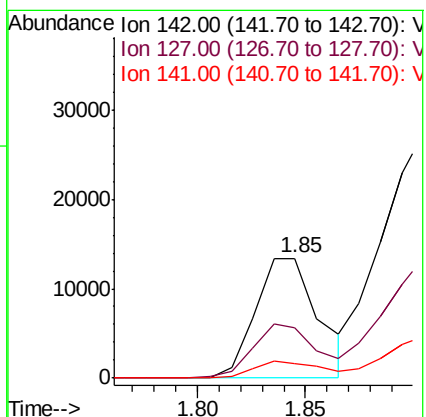
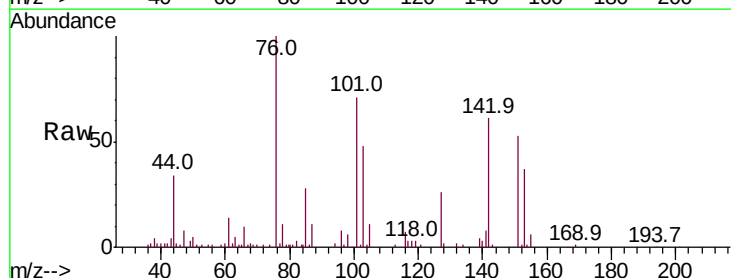
Tgt Ion:142 Resp: 27357

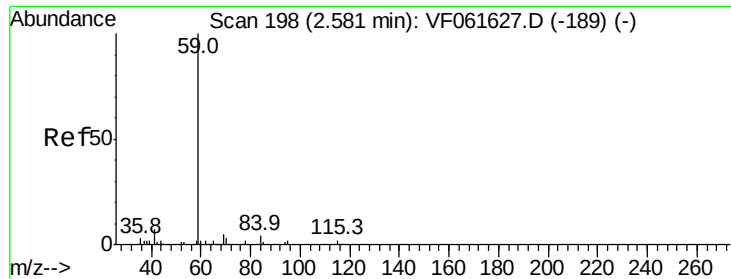
Ion Ratio Lower Upper

142 100

127 42.6 36.6 55.0

141 12.3 11.0 16.6

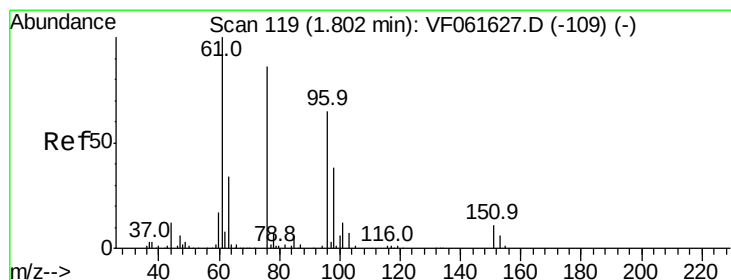
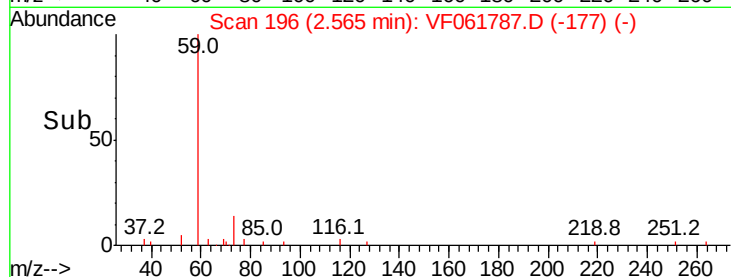
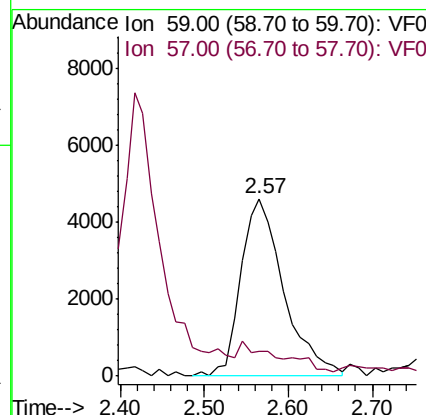
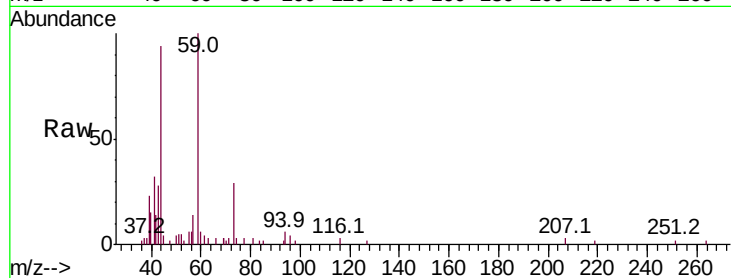




#11
Tert butyl alcohol
Concen: 128.152 ug/l
RT: 2.57 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

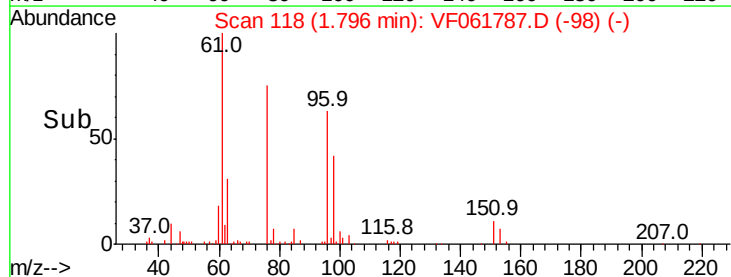
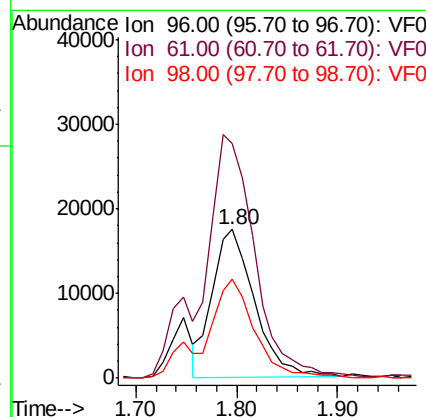
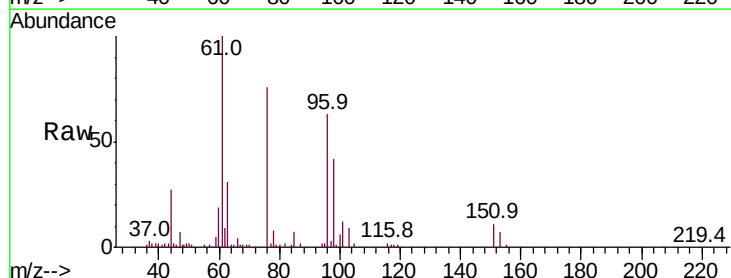
Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

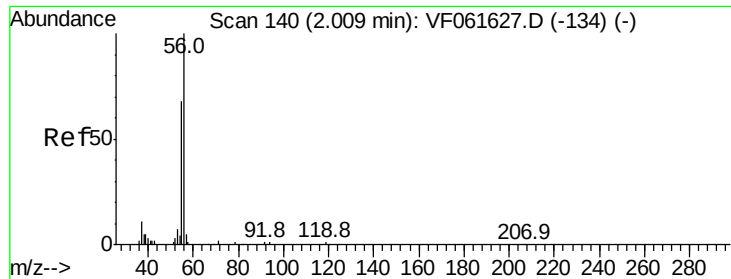
Tot Ion: 59 Resp: 16471
Ion Ratio Lower Upper
59 100
57 13.9 12.5 18.7



#12
1,1-Dichloroethene
Concen: 19.576 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion: 96 Resp: 50801
Ion Ratio Lower Upper
96 100
61 157.6 122.6 184.0
98 66.2 47.2 70.8





#13

Acrolein

Concen: 83.759 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

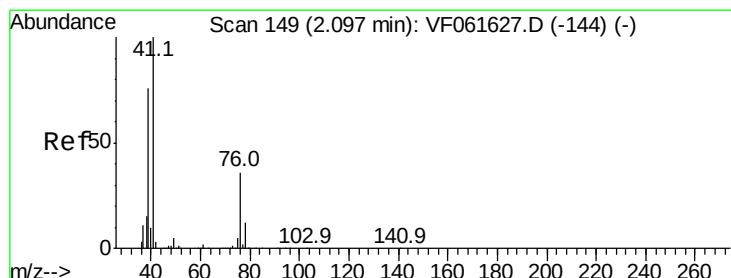
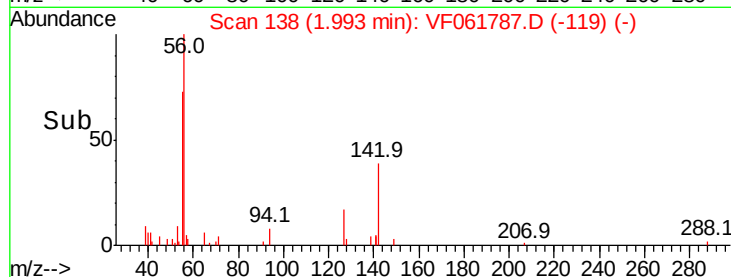
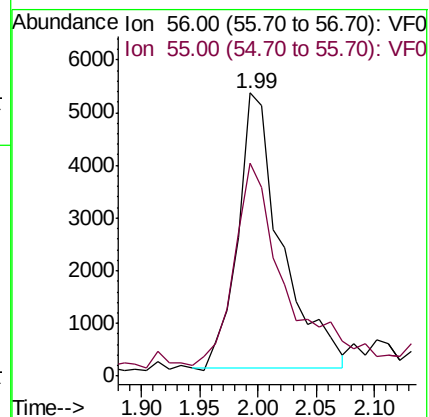
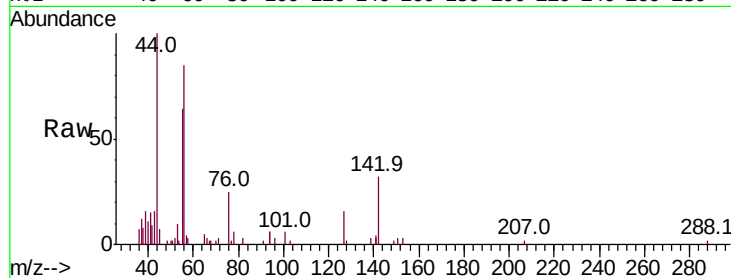
VF0228SBS01

Tot Ion: 56 Resp: 13530

Ion Ratio Lower Upper

56 100

55 75.2 55.0 82.6



#14

Allyl chloride

Concen: 22.849 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

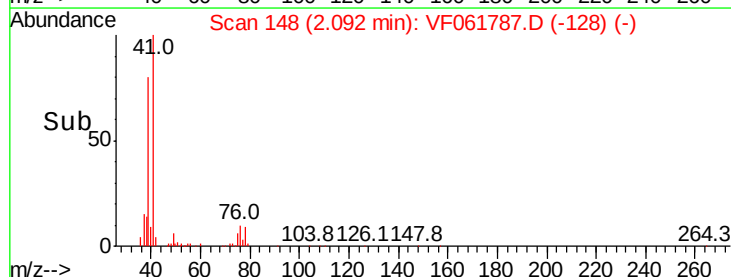
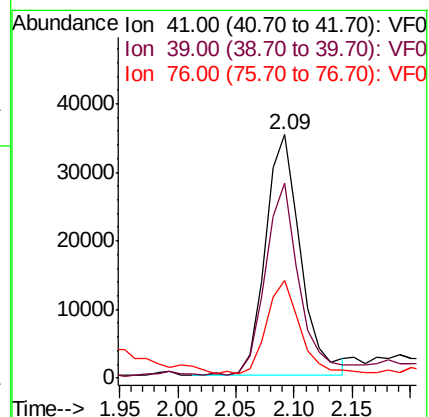
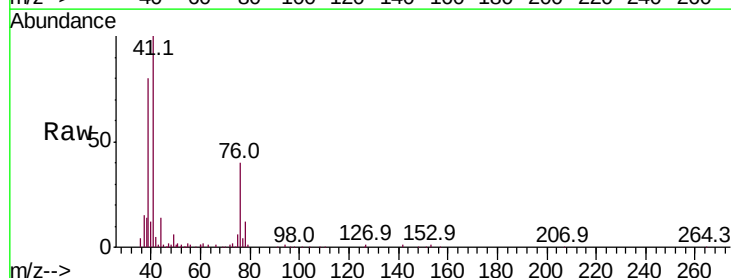
Tgt Ion: 41 Resp: 72761

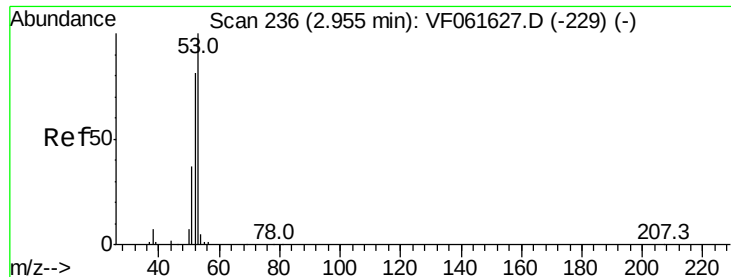
Ion Ratio Lower Upper

41 100

39 80.2 61.6 92.4

76 40.0 30.3 45.5





#15

Acrylonitrile

Concen: 102.301 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

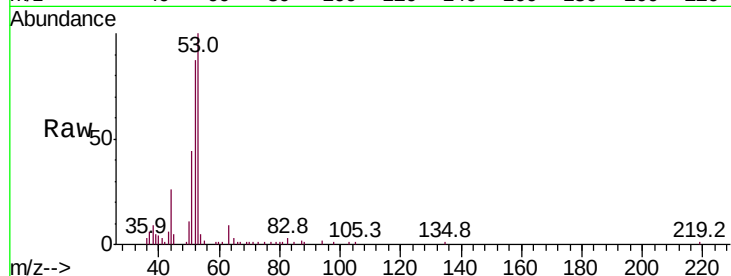
Tot Ion: 53 Resp: 46638

Ion Ratio Lower Upper

53 100

52 87.2 64.6 97.0

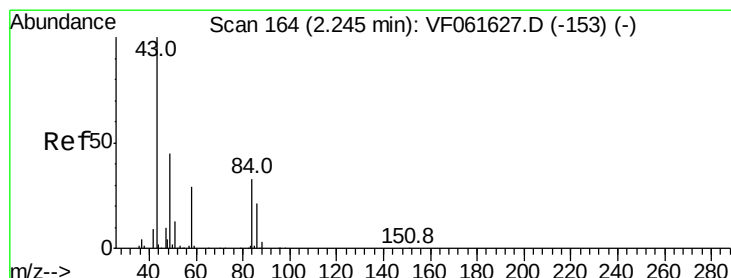
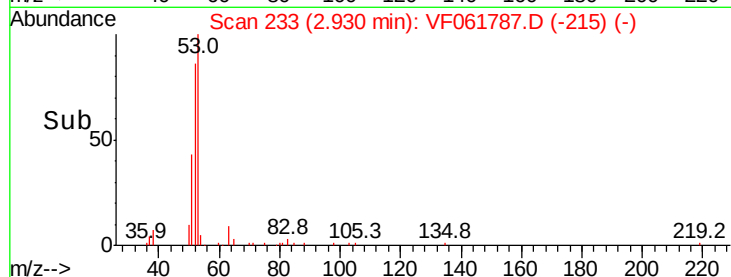
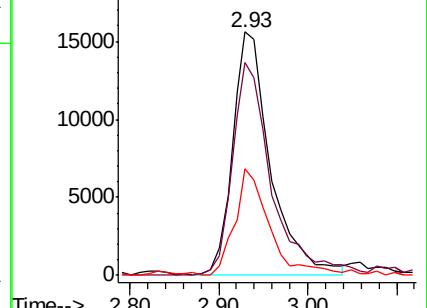
51 43.7 29.8 44.8



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: 127.065 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061787.D

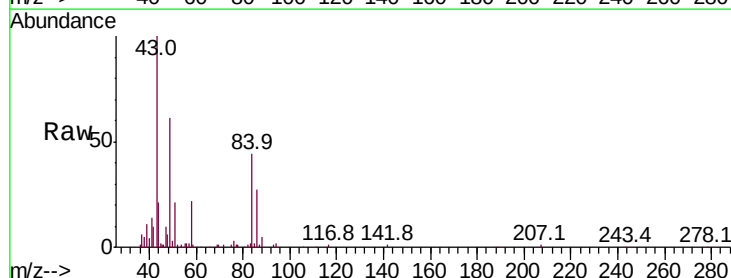
Acq: 28 Feb 2019 15:01

Tgt Ion: 43 Resp: 60545

Ion Ratio Lower Upper

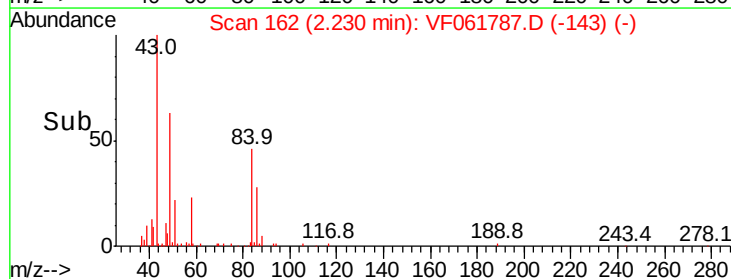
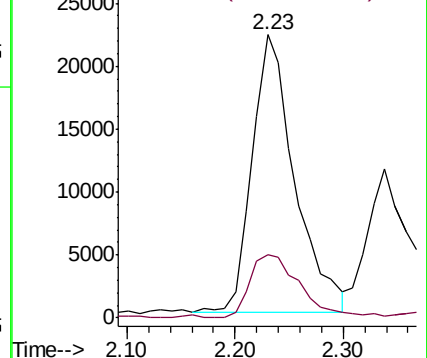
43 100

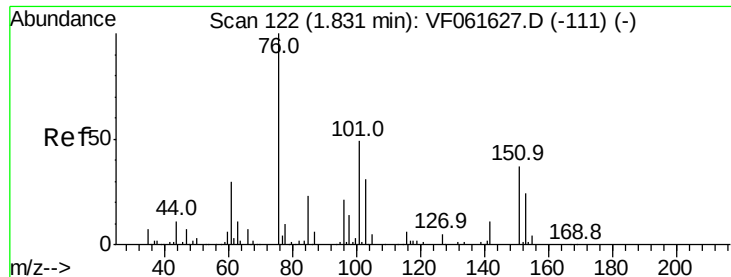
58 22.5 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

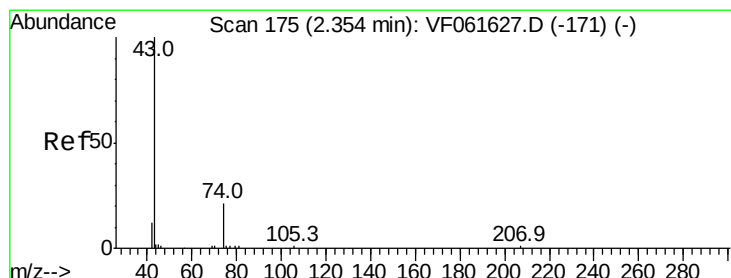
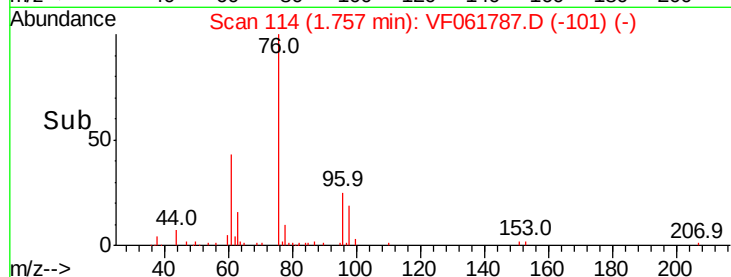
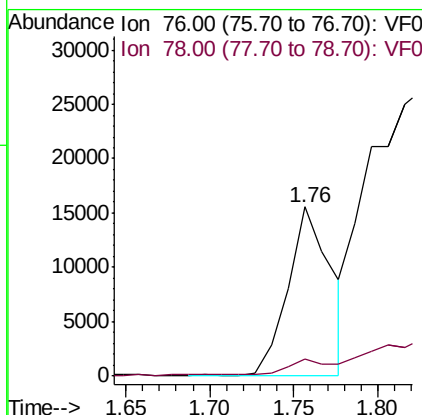
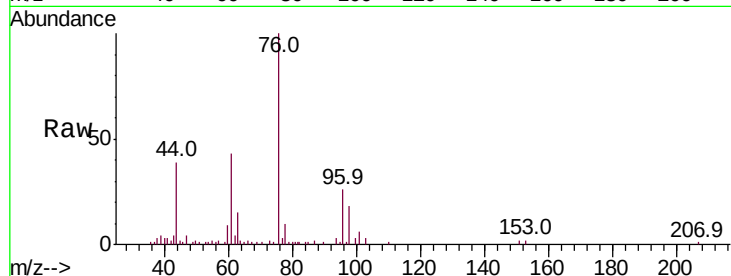




#17
Carbon Disulfide
Concen: 3.427 ug/l
RT: 1.76 min Scan# 114
Delta R.T. -0.07 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

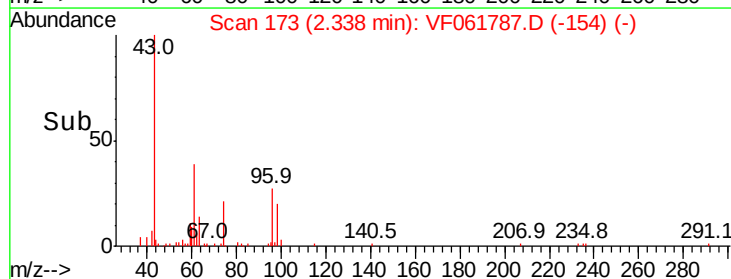
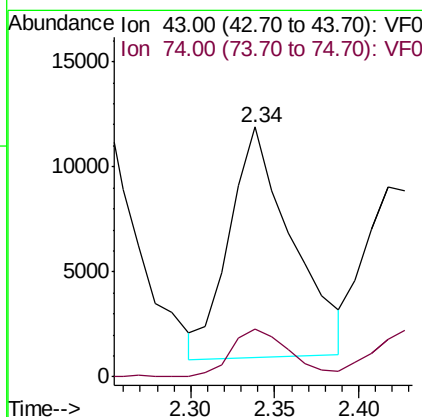
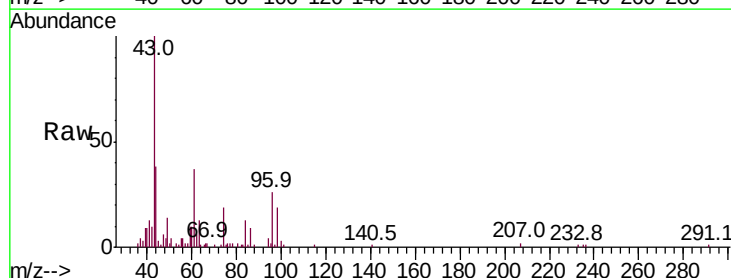
Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

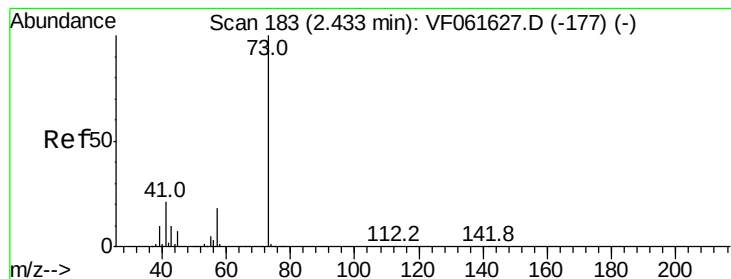
Tot Ion: 76 Resp: 27957
Ion Ratio Lower Upper
76 100
78 10.2 7.9 11.9



#18
Methyl Acetate
Concen: 26.621 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion: 43 Resp: 28575
Ion Ratio Lower Upper
43 100
74 19.4 14.6 21.8



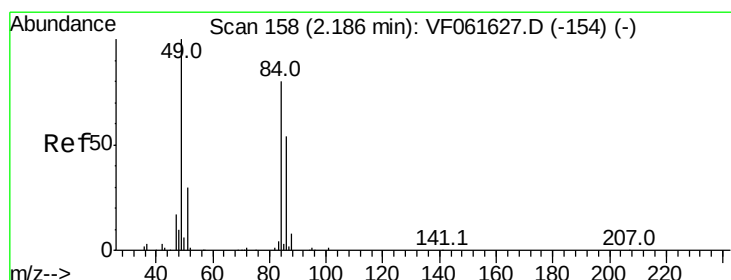
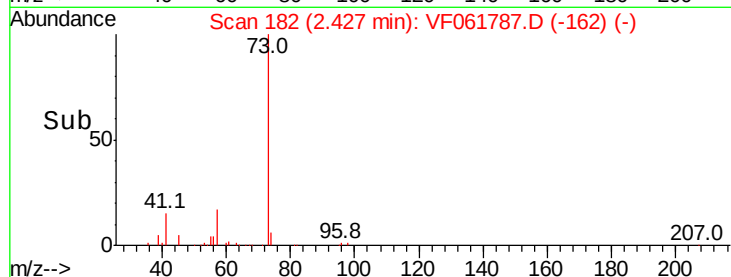
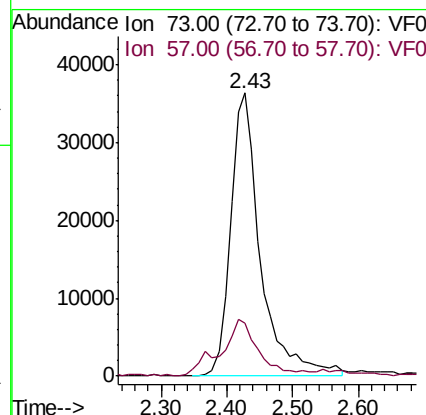
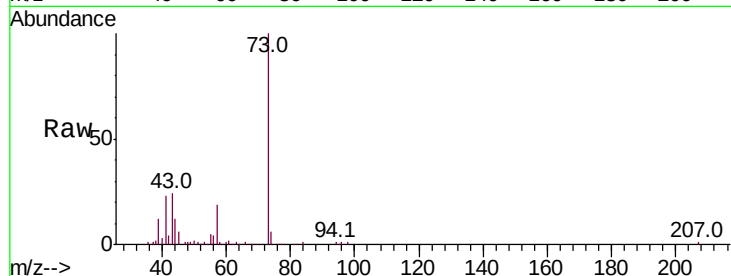


#19

Methyl tert-butyl Ether
 Concen: 26.014 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

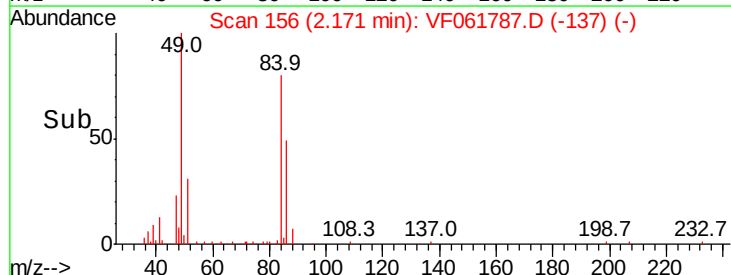
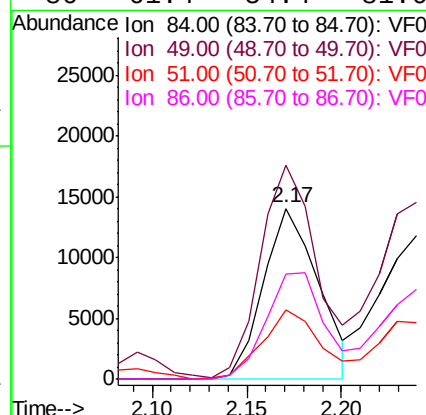
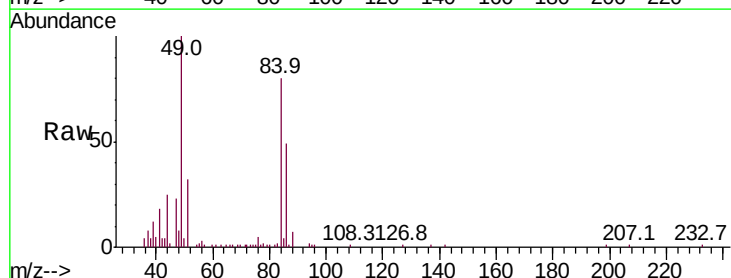
Tot Ion: 73 Resp: 115375
 Ion Ratio Lower Upper
 73 100
 57 18.8 15.8 23.8

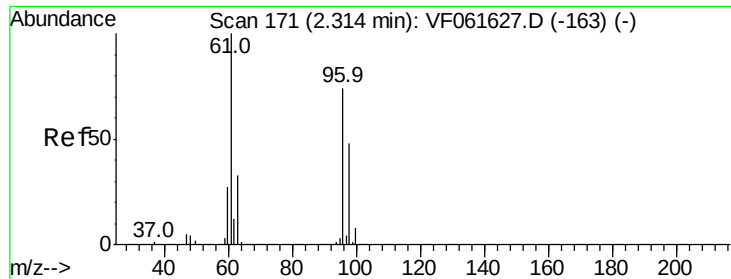


#20

Methylene Chloride
 Concen: 9.051 ug/l
 RT: 2.17 min Scan# 156
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion: 84 Resp: 28380
 Ion Ratio Lower Upper
 84 100
 49 125.4 101.8 152.8
 51 40.7 31.1 46.7
 86 61.4 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 22.958 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

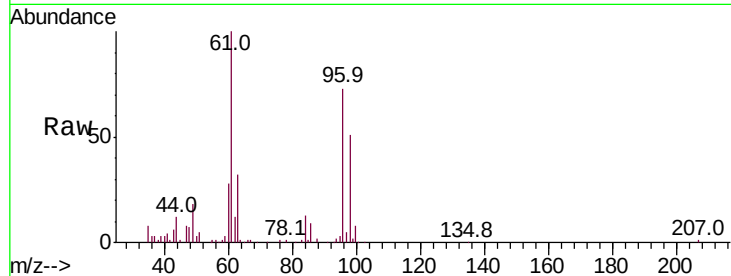
Tot Ion: 96 Resp: 64765

Ion Ratio Lower Upper

96 100

61 136.5 108.2 162.4

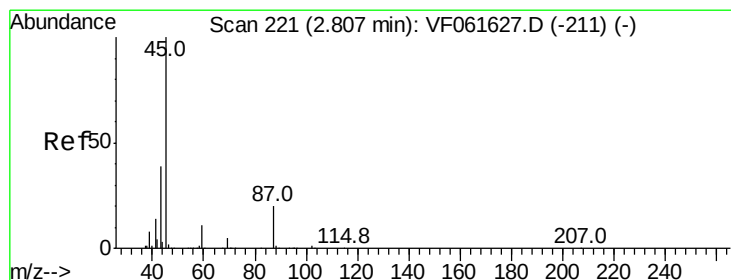
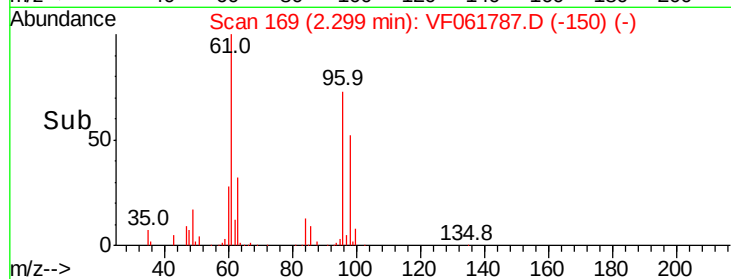
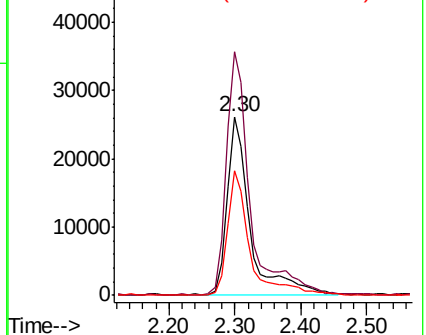
98 70.2 52.2 78.2



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: 24.086 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion: 45 Resp: 184116

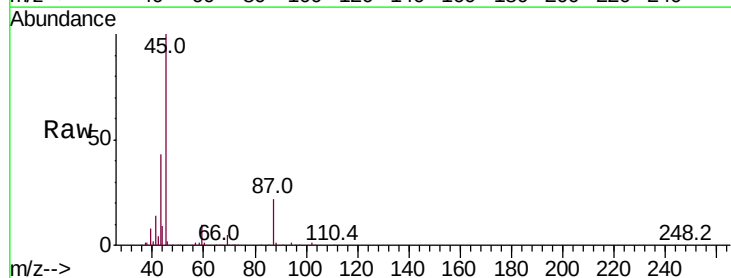
Ion Ratio Lower Upper

45 100

43 43.0 31.4 47.2

87 22.1 16.3 24.5

59 10.3 8.7 13.1

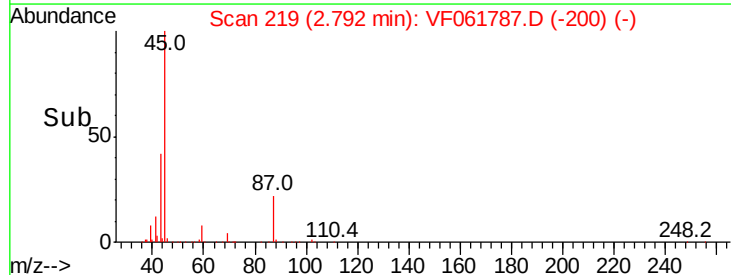
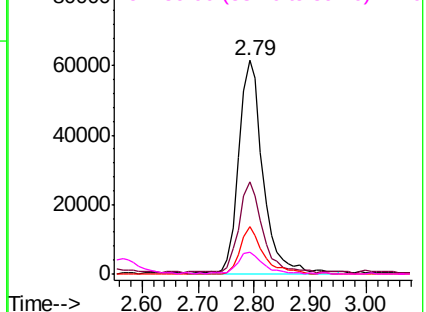


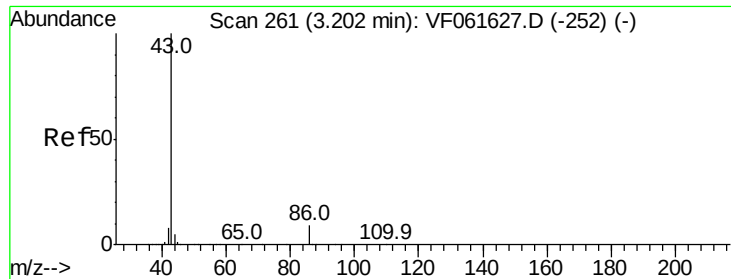
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 111.132 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

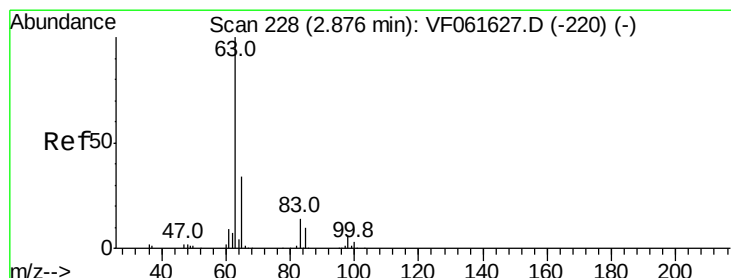
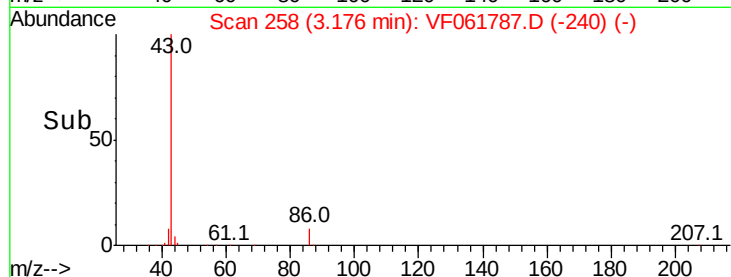
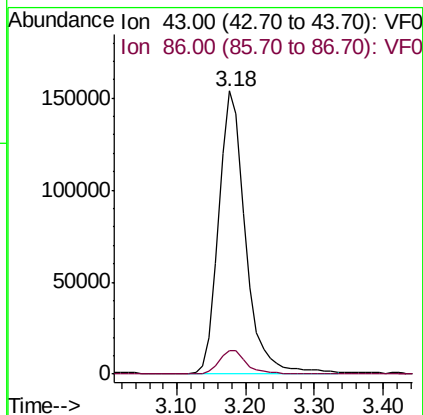
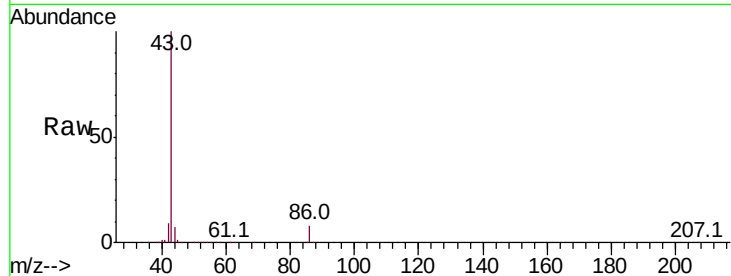
VF0228SBS01

Tot Ion: 43 Resp: 414919

Ion Ratio Lower Upper

43 100

86 8.4 7.5 11.3



#24

1,1-Dichloroethane

Concen: 24.350 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

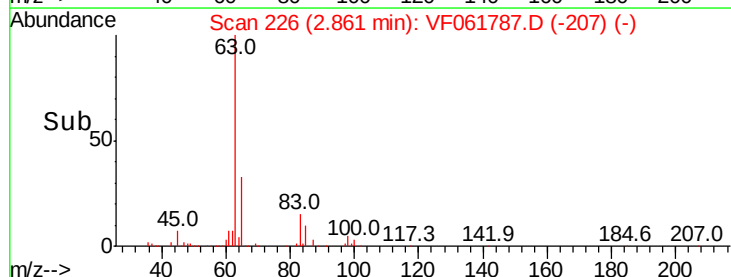
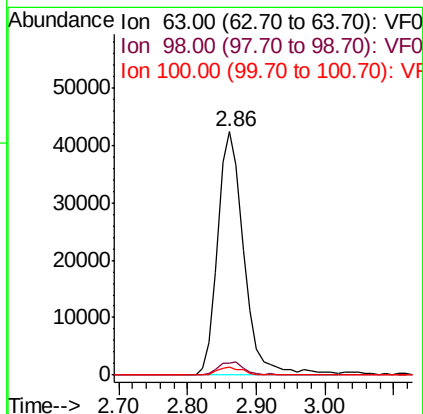
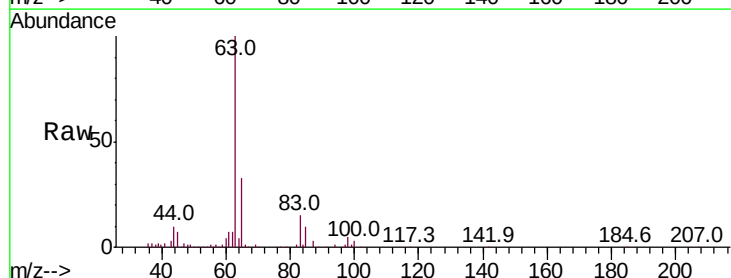
Tgt Ion: 63 Resp: 112640

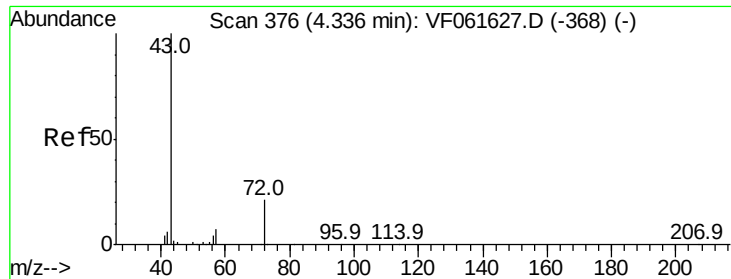
Ion Ratio Lower Upper

63 100

98 5.1 2.8 8.3

100 3.3 1.8 5.4





#25

2-Butanone

Concen: 112.141 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

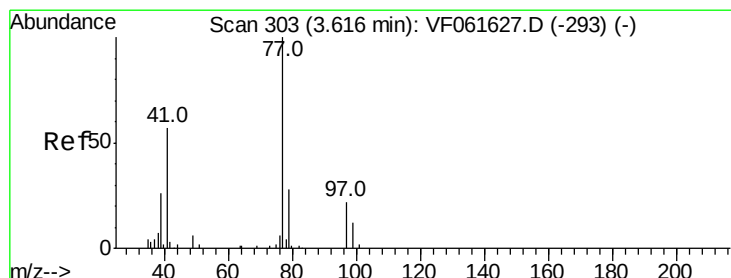
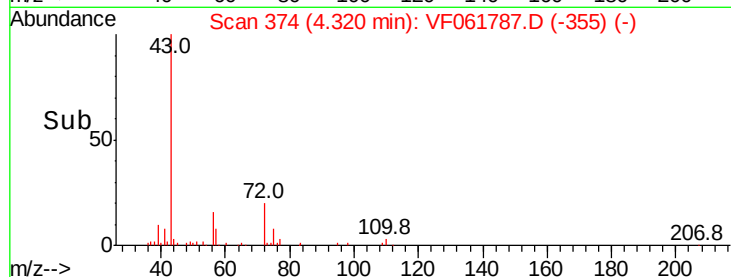
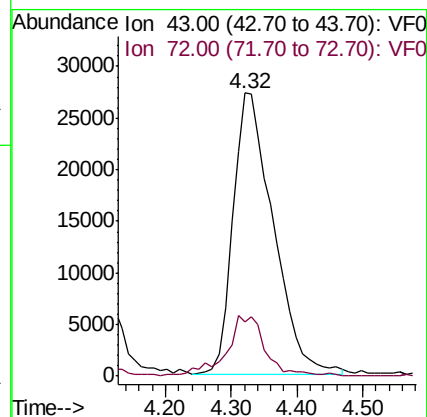
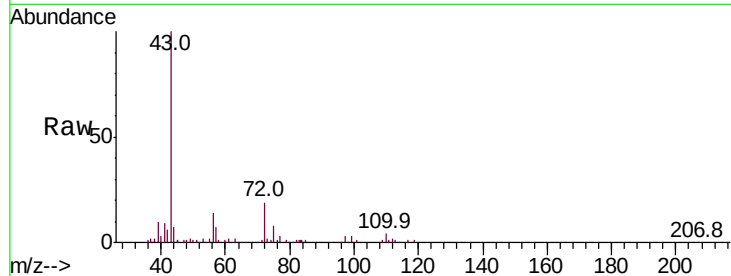
VF0228SBS01

Tot Ion: 43 Resp: 116716

Ion Ratio Lower Upper

43 100

72 19.2 17.1 25.7



#26

2,2-Dichloropropane

Concen: 25.072 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF061787.D

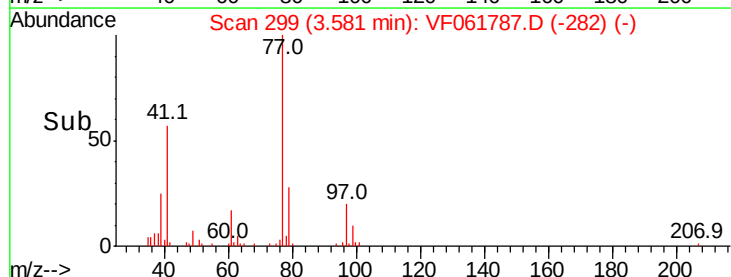
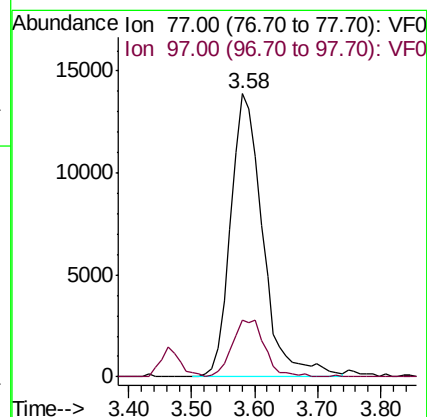
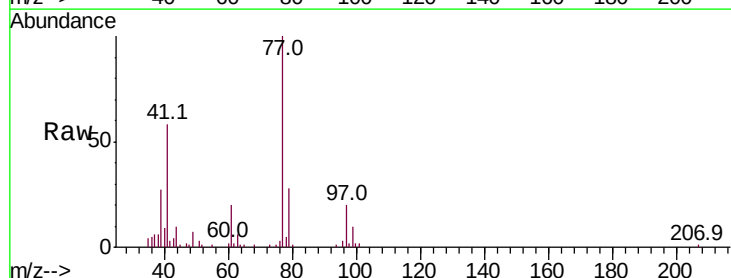
Acq: 28 Feb 2019 15:01

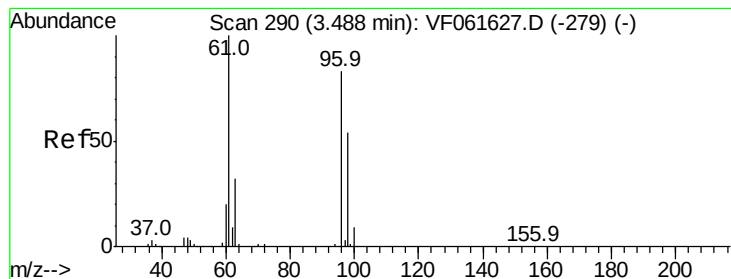
Tgt Ion: 77 Resp: 49127

Ion Ratio Lower Upper

77 100

97 20.0 11.7 35.0



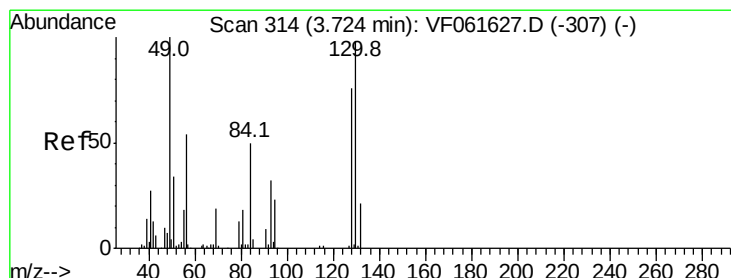
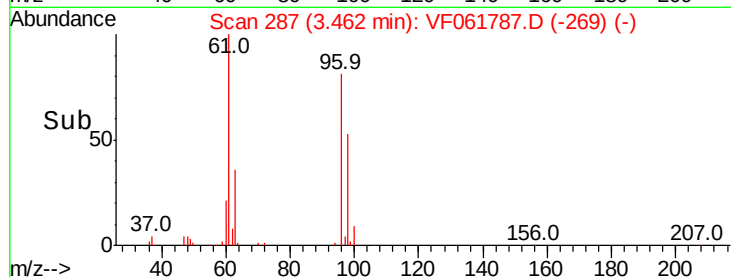
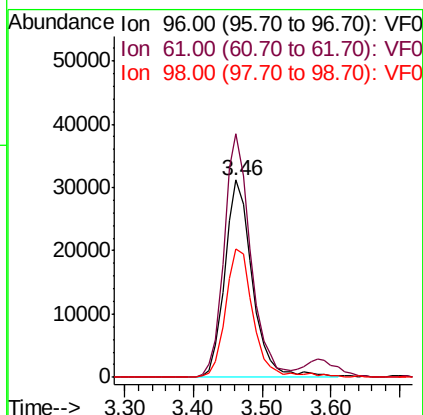
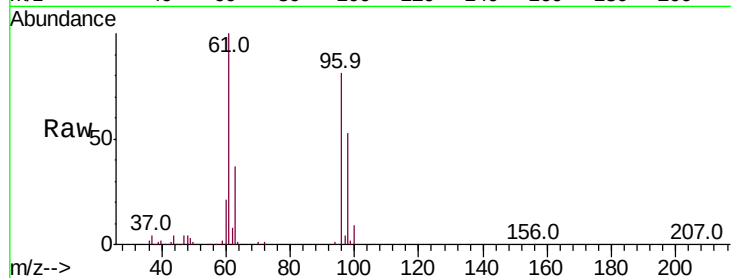


#27

cis-1,2-Dichloroethene
 Concen: 23.367 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.03 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

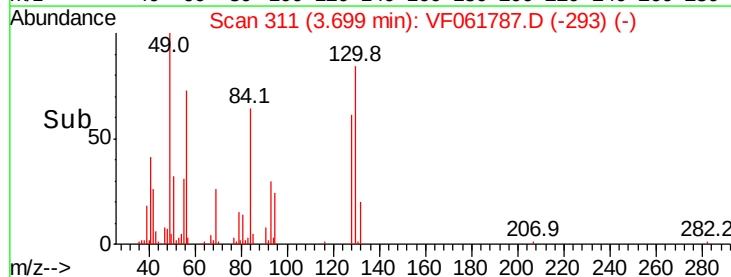
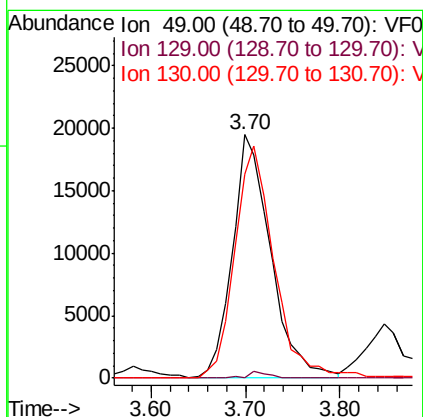
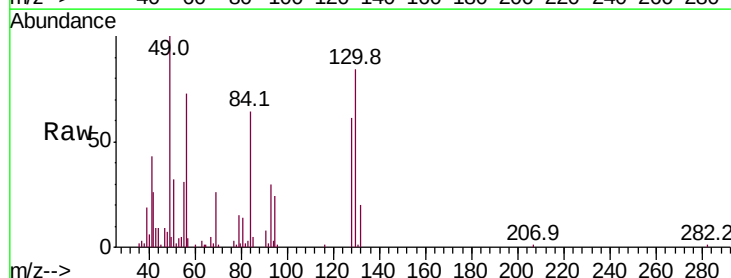
Tot Ion	96	Resp	86524
Ion	Ratio	Lower	Upper
96	100		
61	123.5	0.0	241.6
98	65.5	0.0	130.2

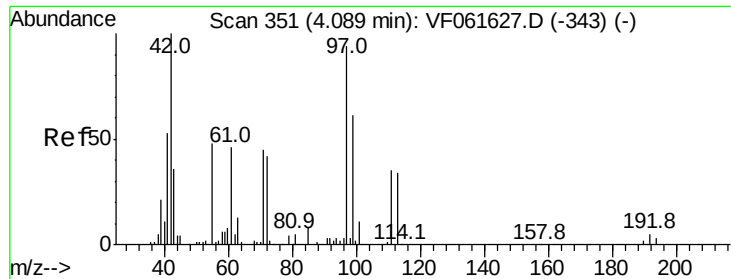


#28

Bromochloromethane
 Concen: 24.689 ug/l
 RT: 3.70 min Scan# 311
 Delta R.T. -0.03 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion	49	Resp	54799
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	83.9	77.7	116.5

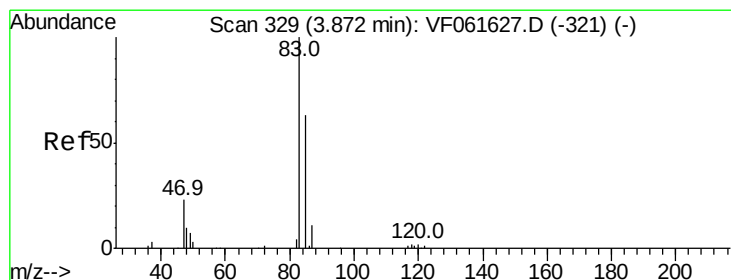
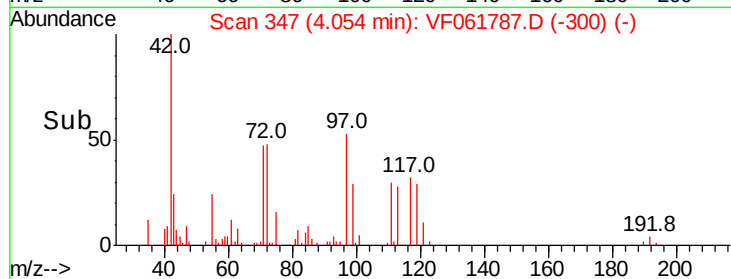
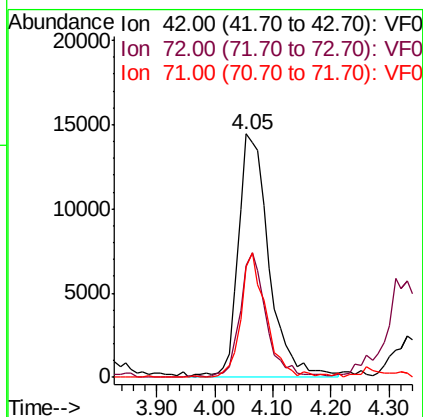
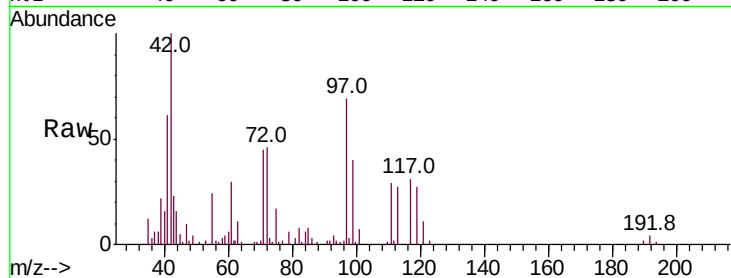




#29
Tetrahydrofuran
Concen: 112.872 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.04 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

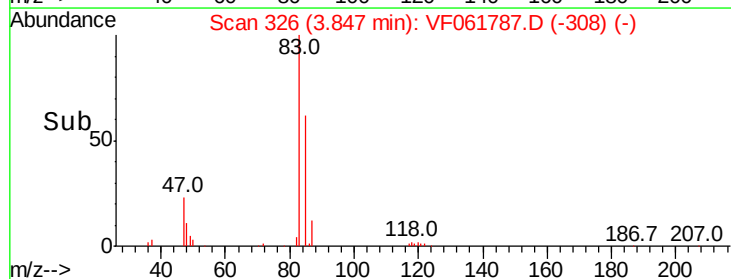
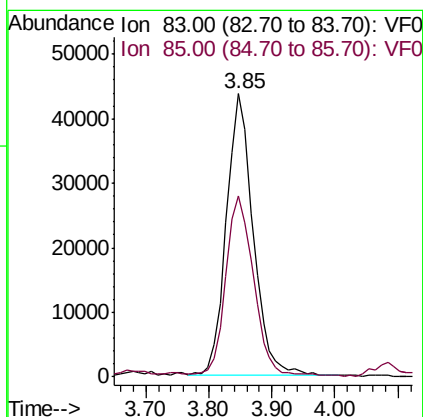
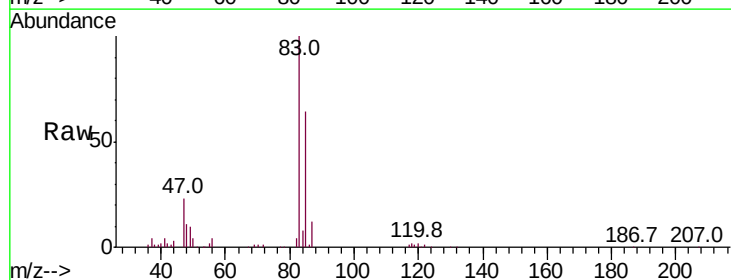
Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

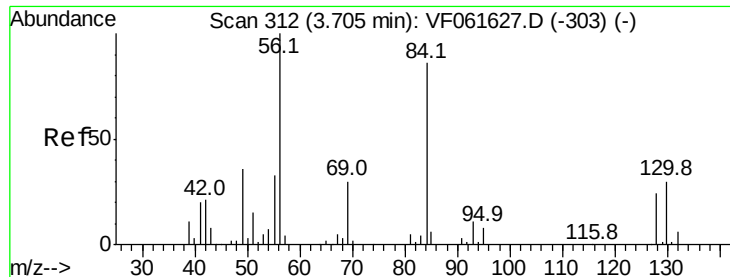
Tot Ion	42	Resp	53394
Ion Ratio	Lower	Upper	
42	100		
72	43.2	35.2	52.8
71	40.9	32.9	49.3



#30
Chloroform
Concen: 24.321 ug/l
RT: 3.85 min Scan# 326
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	83	Resp	127944
Ion Ratio	Lower	Upper	
83	100		
85	63.9	51.1	76.7

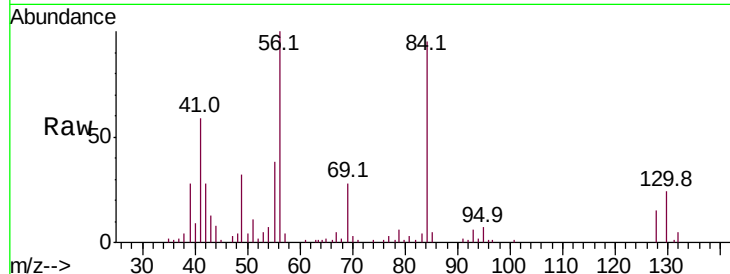




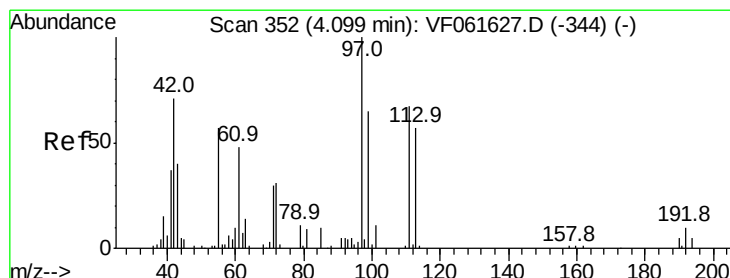
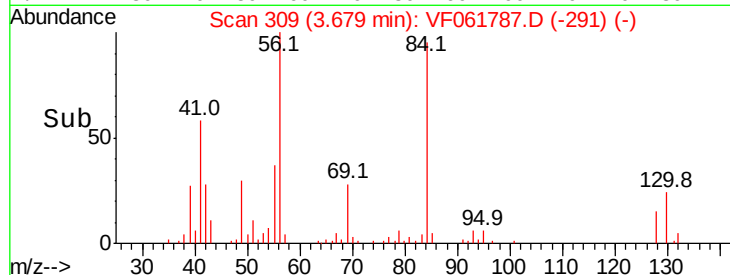
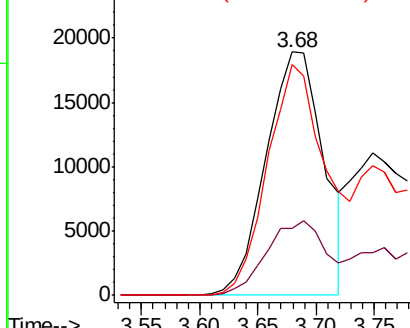
#31
Cyclohexane
Concen: 12.978 ug/l
RT: 3.68 min Scan# 309
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion: 56 Resp: 64990
Ion Ratio Lower Upper
56 100
69 27.6 23.8 35.8
84 94.6 68.6 103.0

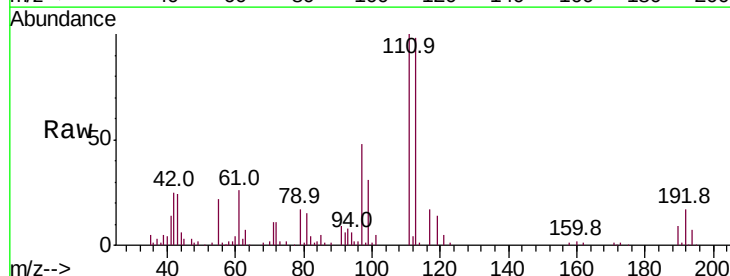


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

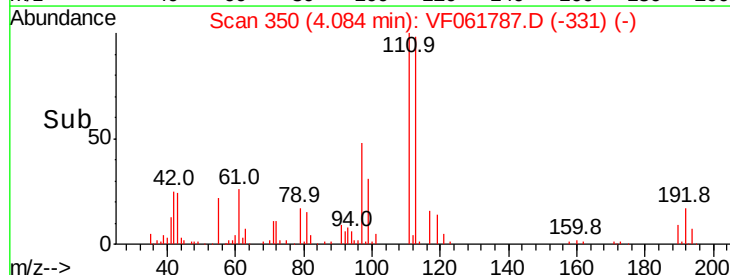
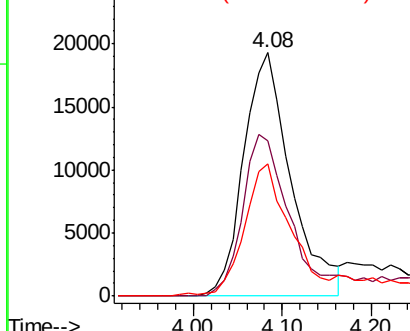


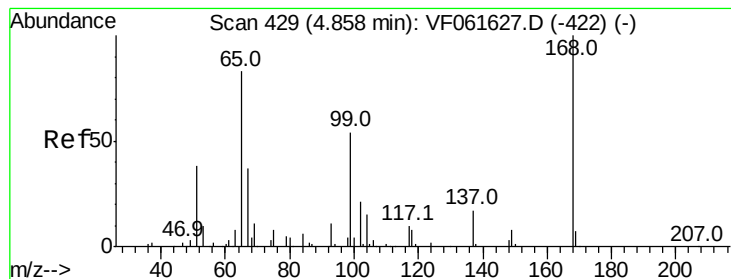
#32
1,1,1-Trichloroethane
Concen: 20.626 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion: 97 Resp: 71078
Ion Ratio Lower Upper
97 100
99 64.0 52.2 78.2
61 54.5 39.2 58.8



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 55.609 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

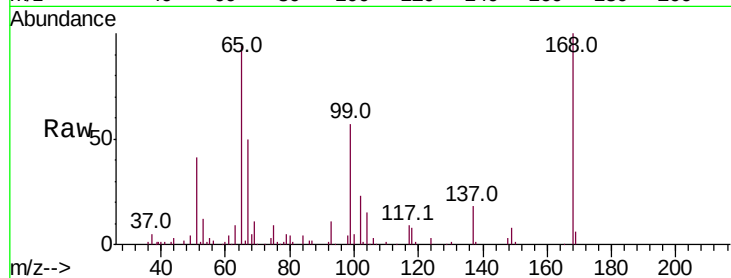
VF0228SBS01

Tot Ion: 65 Resp: 123498

Ion Ratio Lower Upper

65 100

67 53.0 0.0 104.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

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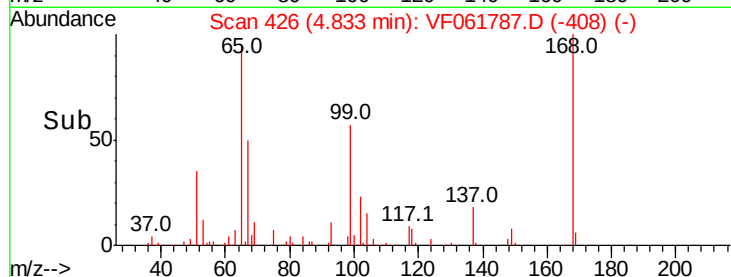
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

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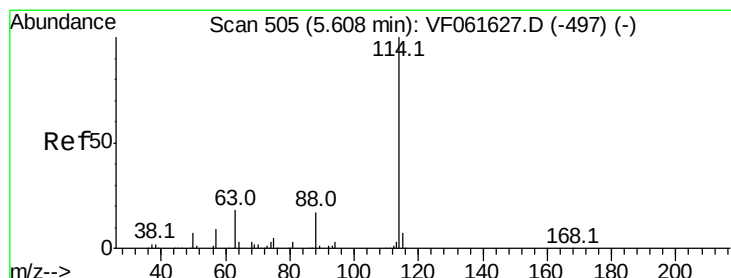
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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

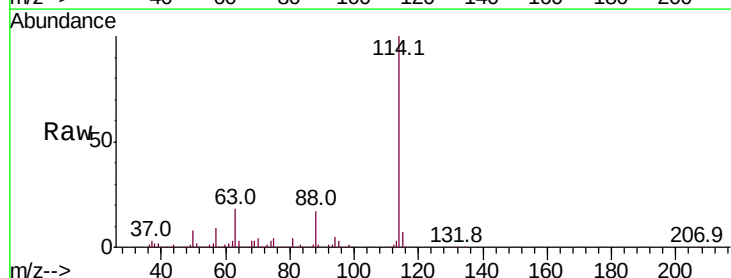
Tgt Ion:114 Resp: 459952

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.6

88 17.0 0.0 34.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

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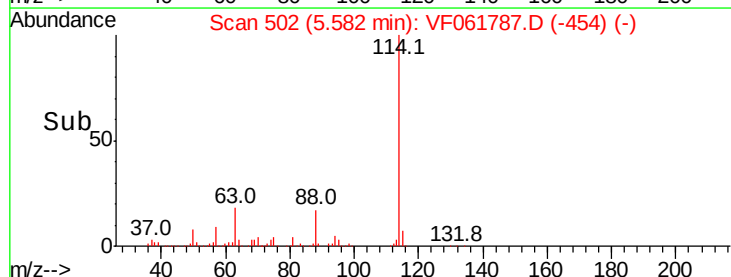
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Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

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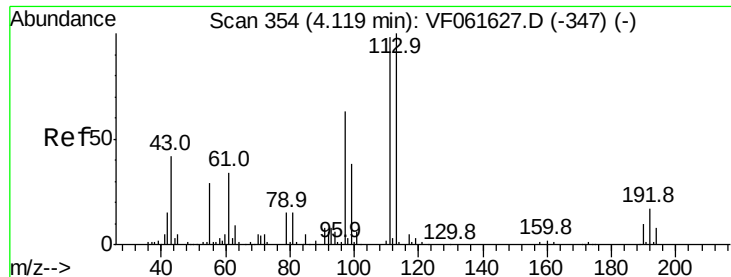
5.58

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#35

Dibromofluoromethane

Concen: 51.703 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

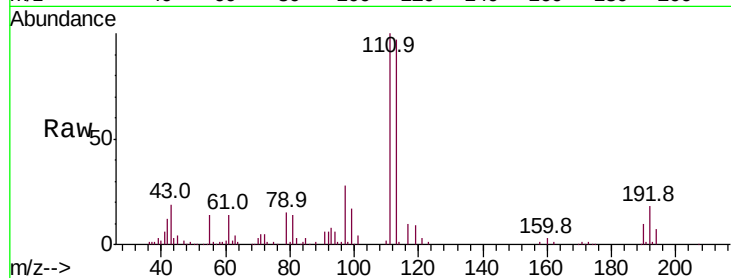
Tot Ion:113 Resp: 176598

Ion Ratio Lower Upper

113 100

111 102.7 78.8 118.2

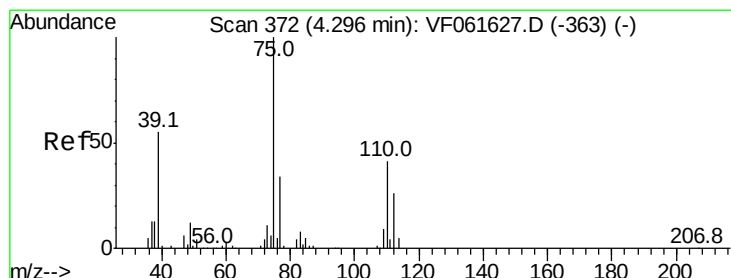
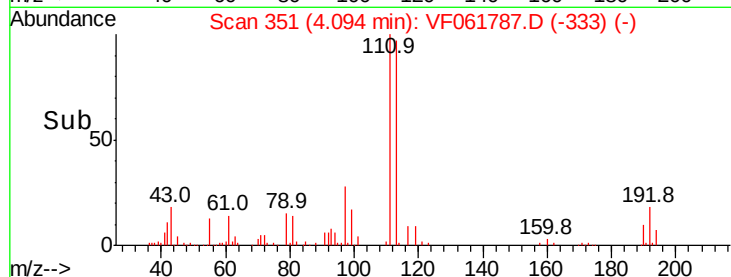
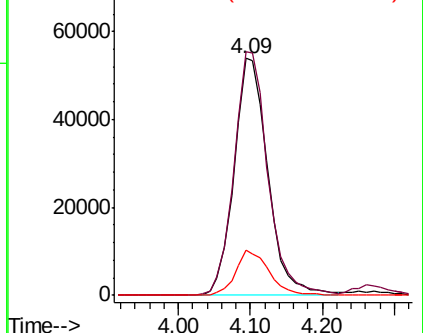
192 18.9 13.4 20.0



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: 21.226 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.04 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

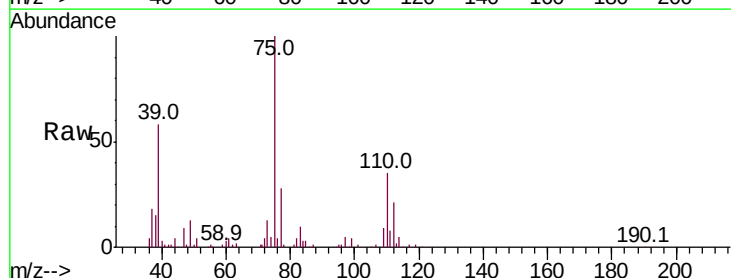
Tgt Ion: 75 Resp: 96713

Ion Ratio Lower Upper

75 100

110 35.1 20.5 61.6

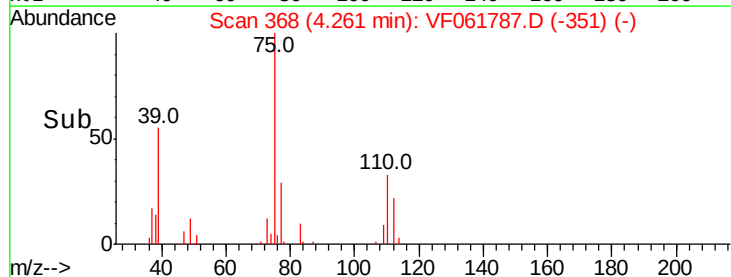
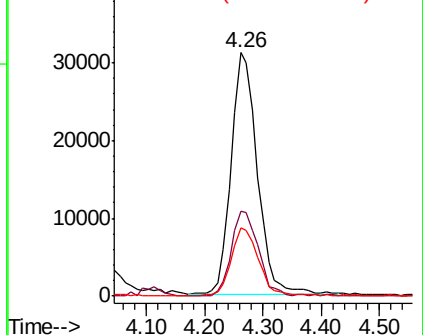
77 28.1 27.0 40.4

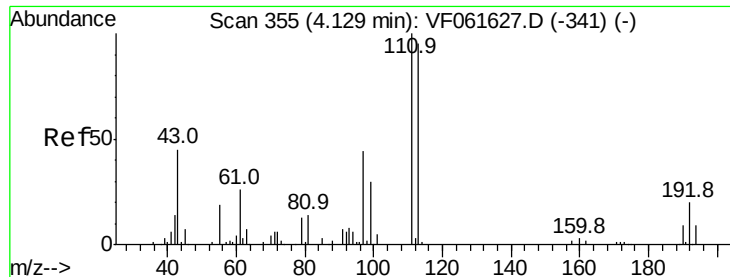


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

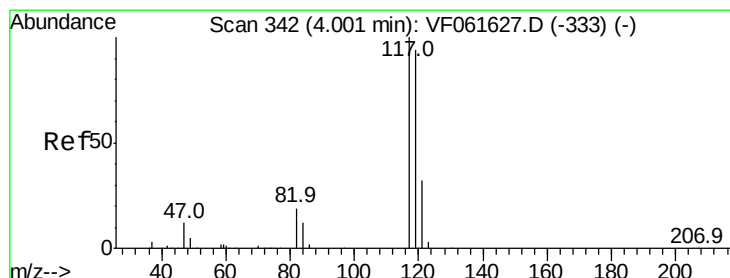
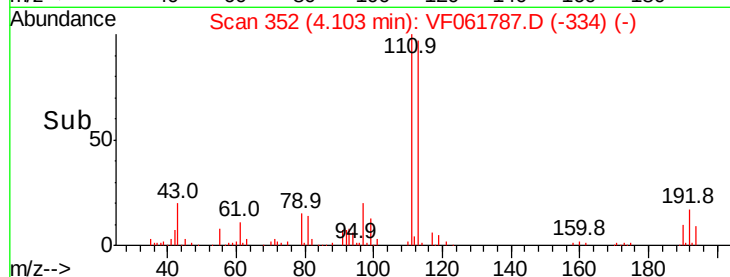
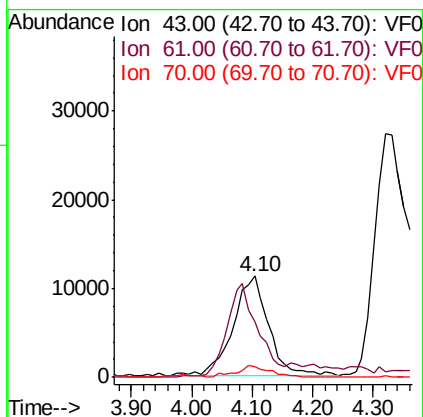
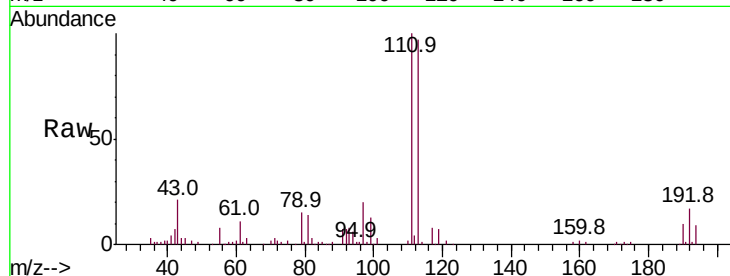




#37
Ethyl Acetate
Concen: 21.504 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

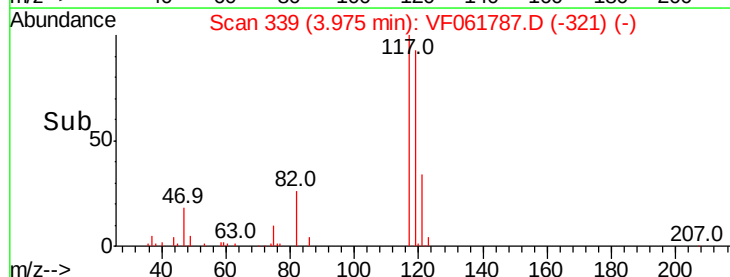
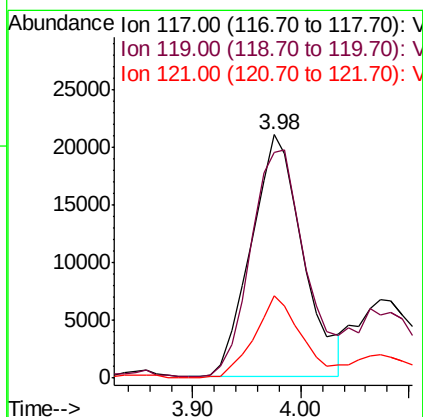
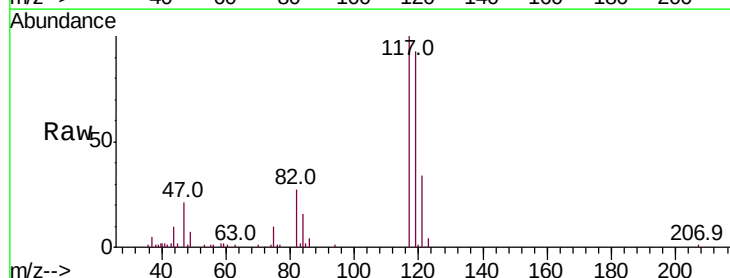
Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

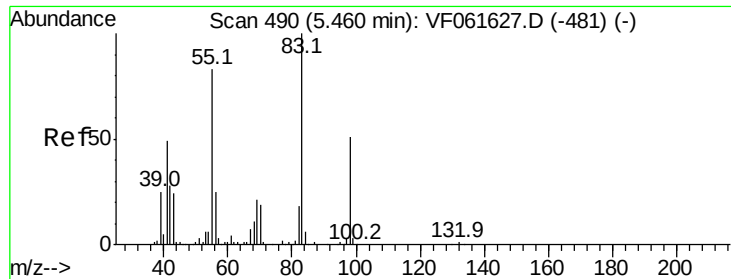
Tot Ion: 43 Resp: 45510
Ion Ratio Lower Upper
43 100
61 54.4 45.7 68.5
70 10.2 8.5 12.7



#38
Carbon Tetrachloride
Concen: 22.312 ug/l
RT: 3.98 min Scan# 339
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion: 117 Resp: 70200
Ion Ratio Lower Upper
117 100
119 92.6 75.6 113.4
121 34.0 25.2 37.8

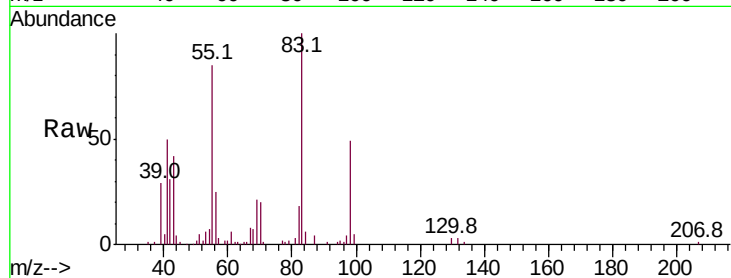




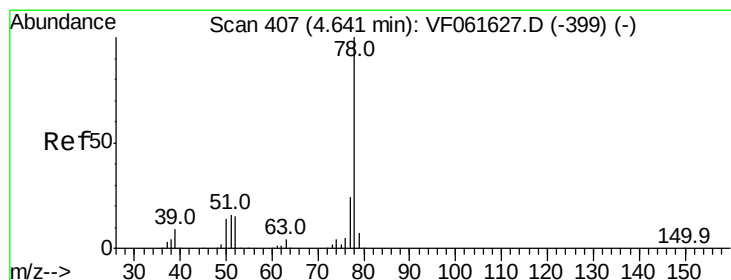
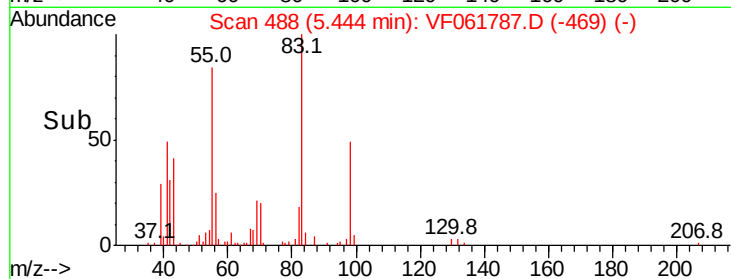
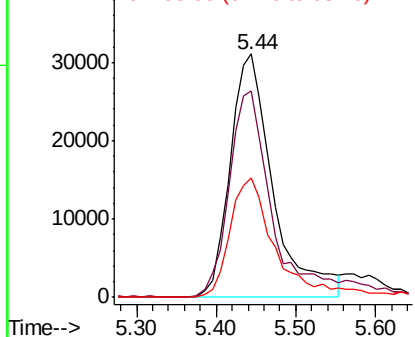
#39
Methylcyclohexane
Concen: 21.569 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion: 83 Resp: 116228
Ion Ratio Lower Upper
83 100
55 84.7 66.6 99.8
98 49.0 40.4 60.6

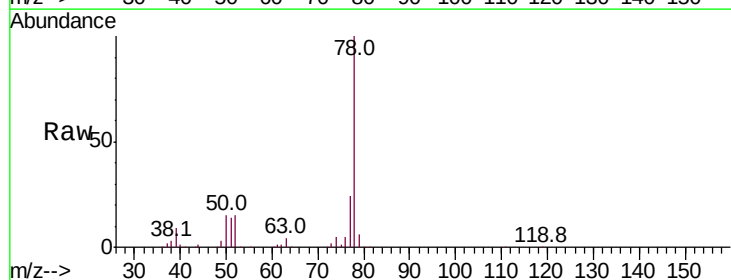


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

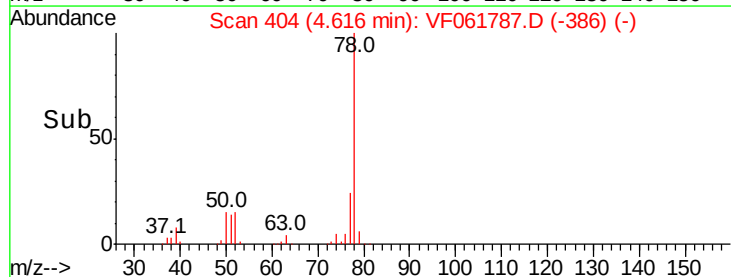
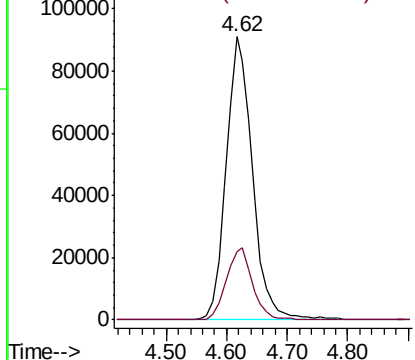


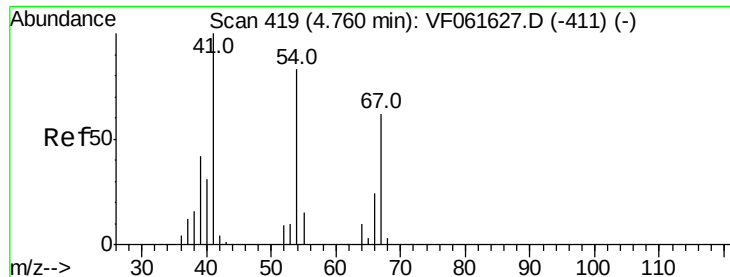
#40
Benzene
Concen: 23.012 ug/l
RT: 4.62 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion: 78 Resp: 274255
Ion Ratio Lower Upper
78 100
77 24.3 19.0 28.6



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





#41

Methacrylonitrile

Concen: 22.995 ug/l

RT: 4.72 min Scan# 415

Delta R.T. -0.04 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 41 Resp: 24887

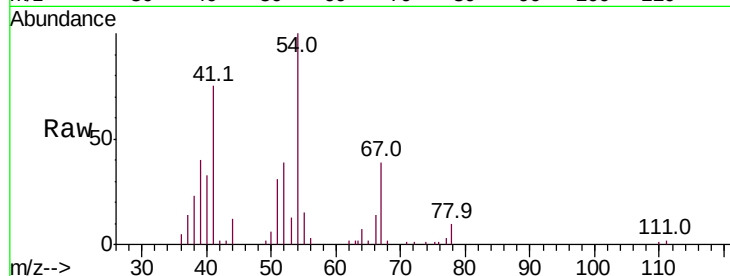
Ion Ratio Lower Upper

41 100

39 53.3 45.3 67.9

67 51.9 49.3 73.9

52 51.9 32.6 49.0#

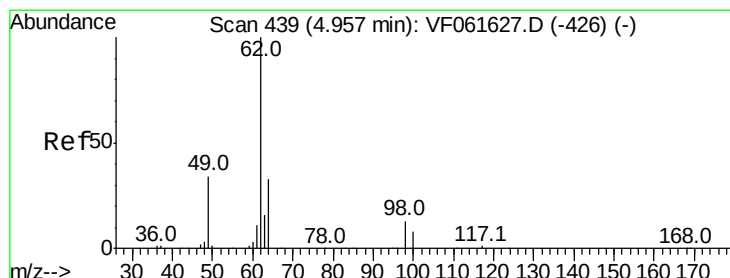
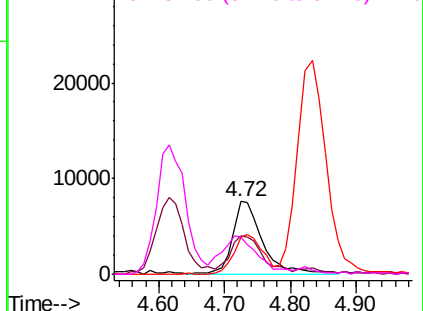
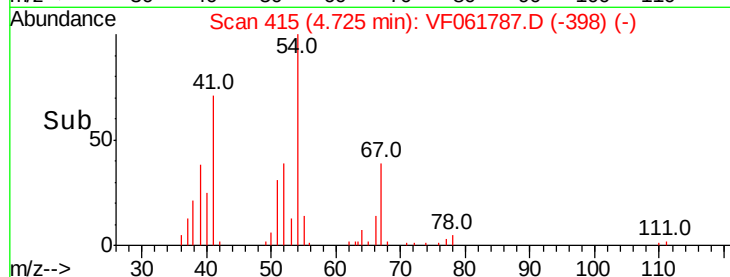


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 22.711 ug/l

RT: 4.93 min Scan# 436

Delta R.T. -0.03 min

Lab File: VF061787.D

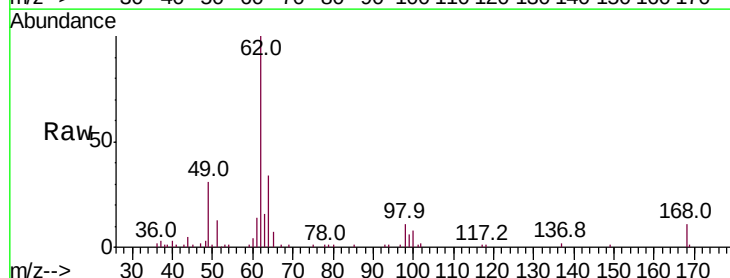
Acq: 28 Feb 2019 15:01

Tgt Ion: 62 Resp: 64744

Ion Ratio Lower Upper

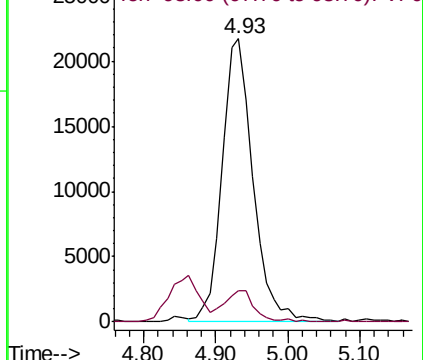
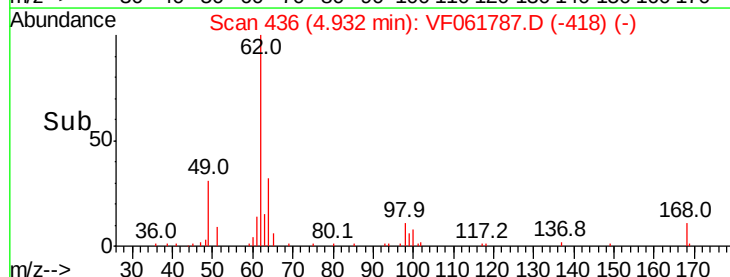
62 100

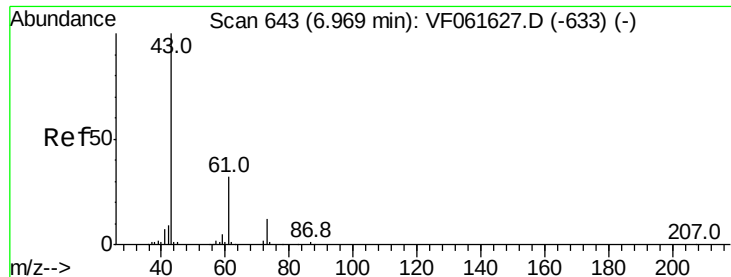
98 10.9 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

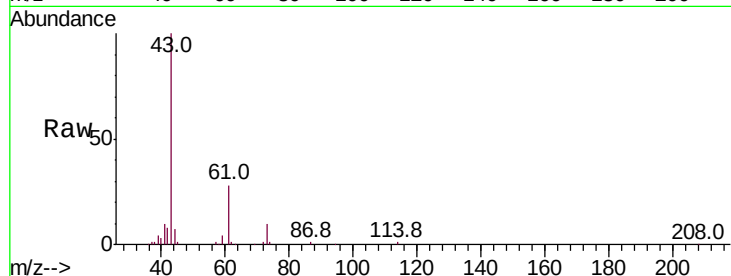




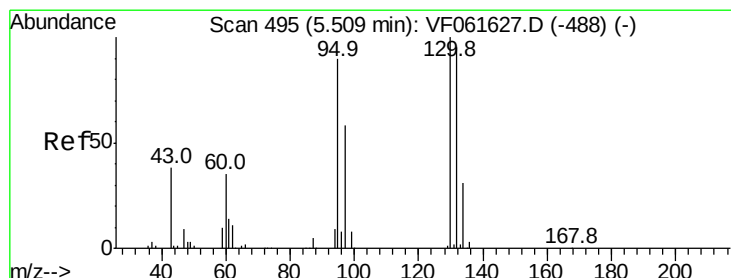
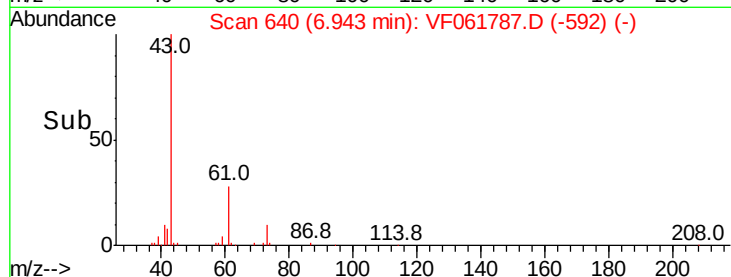
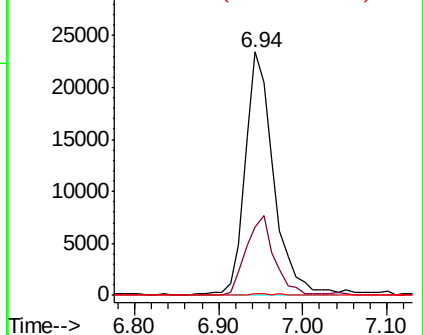
#43
Isopropyl Acetate
Concen: 22.169 ug/l
RT: 6.94 min Scan# 640
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion: 43 Resp: 55534
Ion Ratio Lower Upper
43 100
61 28.0 25.8 38.6
87 0.5 0.4 0.6

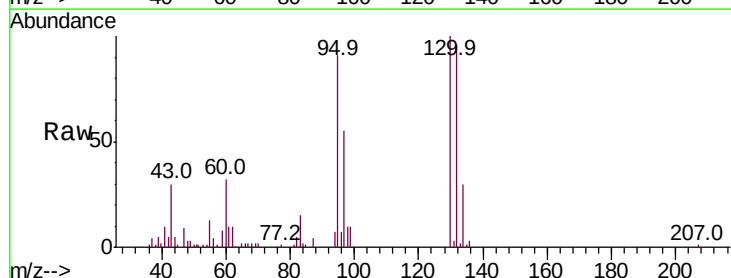


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0

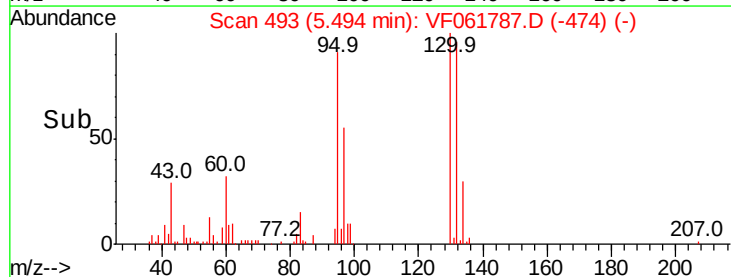
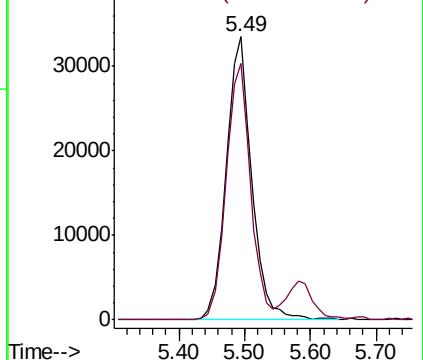


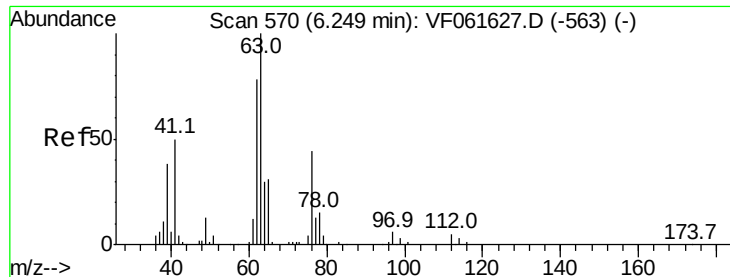
#44
Trichloroethene
Concen: 23.622 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion:130 Resp: 91038
Ion Ratio Lower Upper
130 100
95 90.5 0.0 179.4



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





#45

1,2-Dichloropropane

Concen: 23.664 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

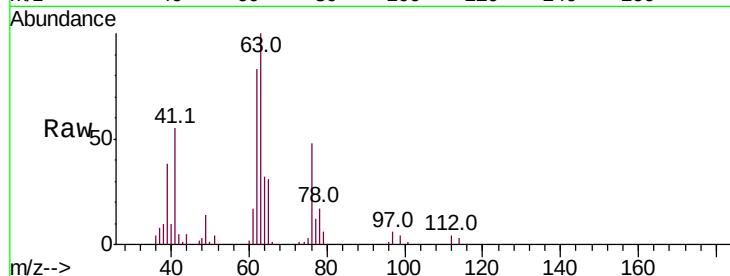
VF0228SBS01

Tot Ion: 63 Resp: 68172

Ion Ratio Lower Upper

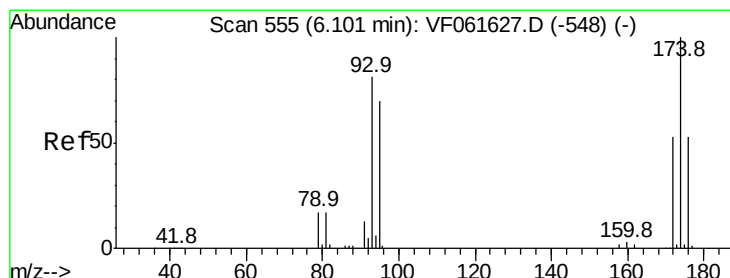
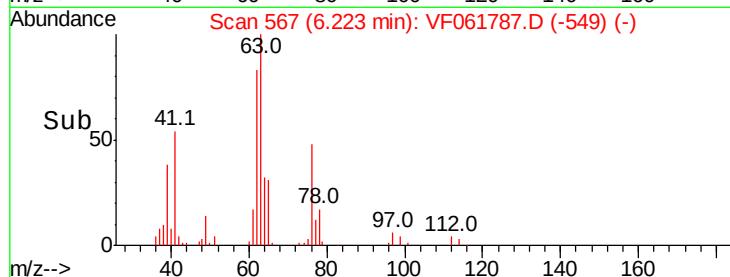
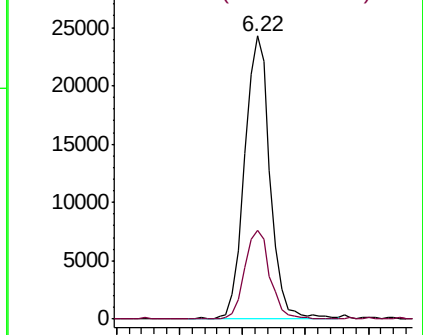
63 100

65 31.4 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 22.321 ug/l

RT: 6.08 min Scan# 552

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

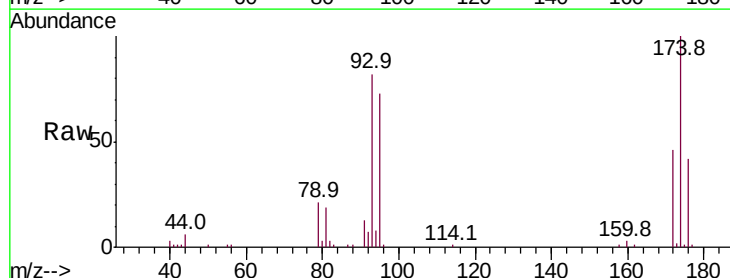
Tgt Ion: 93 Resp: 39591

Ion Ratio Lower Upper

93 100

95 89.3 69.0 103.6

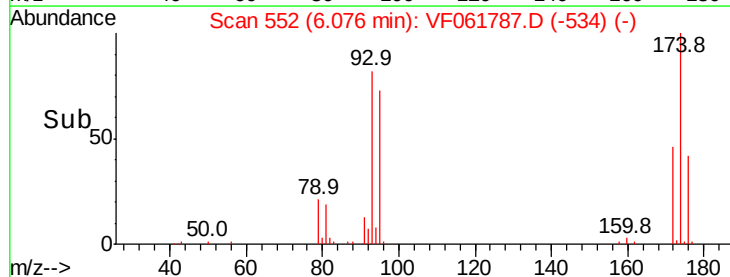
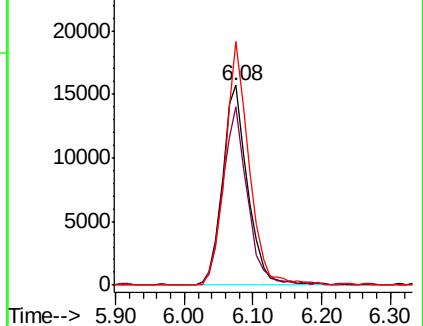
174 121.8 99.3 148.9

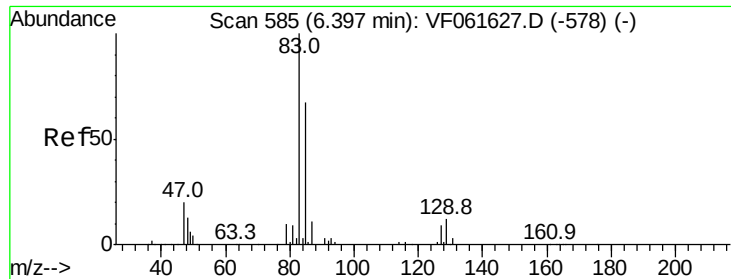


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 23.291 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

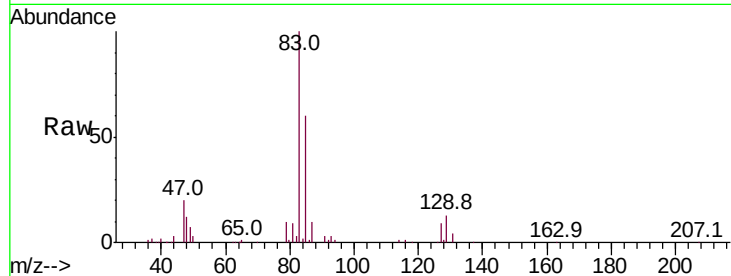
Tot Ion: 83 Resp: 90469

Ion Ratio Lower Upper

83 100

85 59.9 53.4 80.2

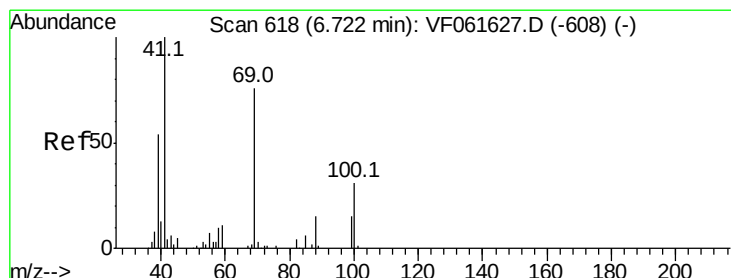
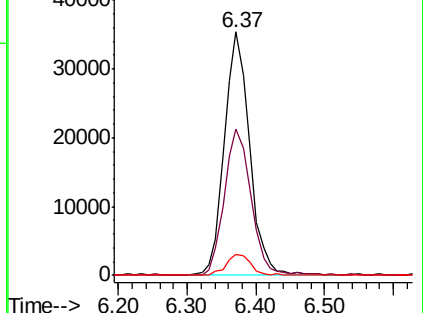
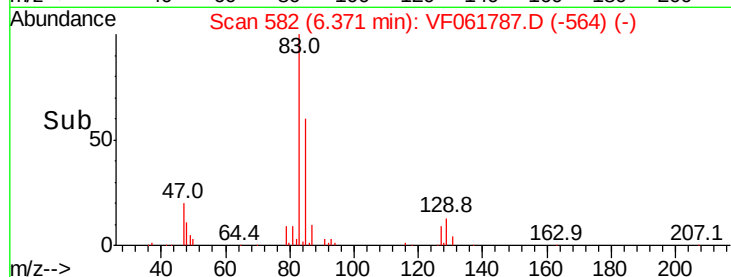
127 8.6 7.5 11.3



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: 22.147 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

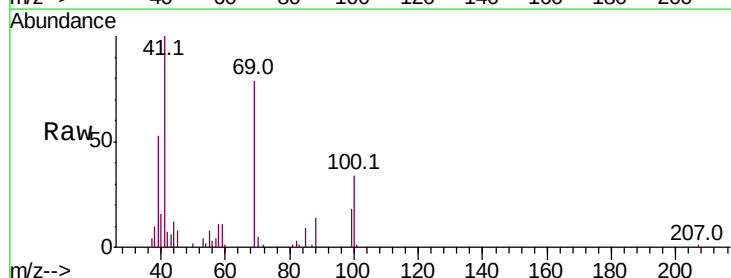
Tgt Ion: 41 Resp: 33387

Ion Ratio Lower Upper

41 100

69 79.0 60.4 90.6

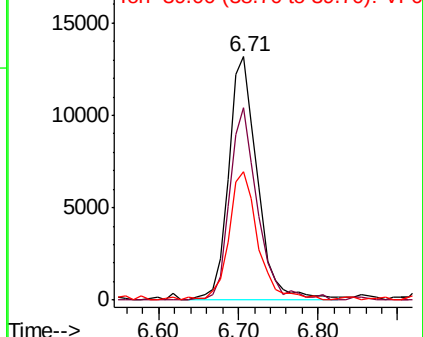
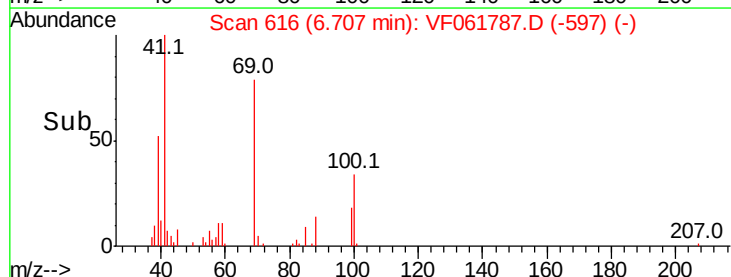
39 52.7 43.7 65.5

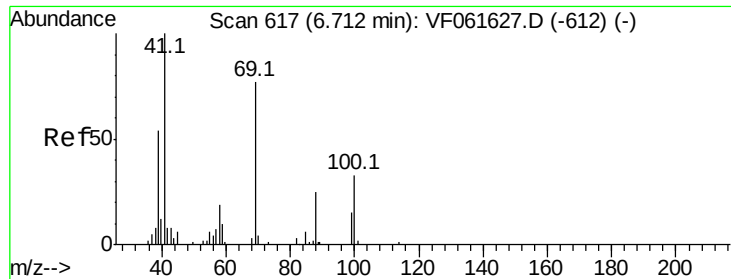


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 459.090 ug/l

RT: 6.70 min Scan# 615

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

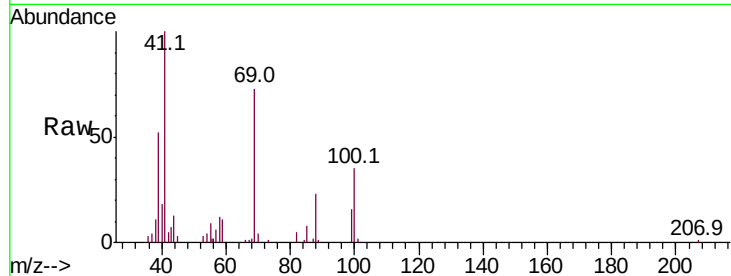
Tot Ion: 88 Resp: 6506

Ion Ratio Lower Upper

88 100

43 29.0 32.3 48.5#

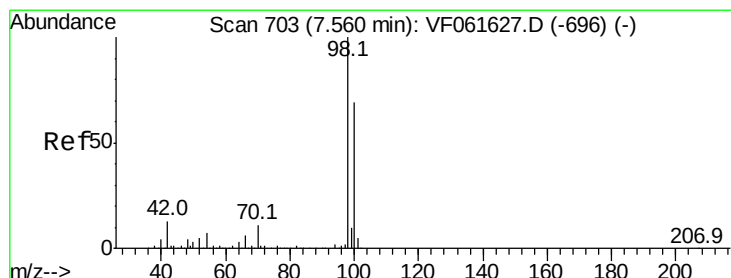
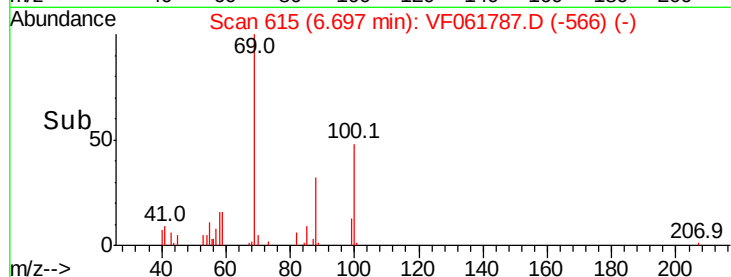
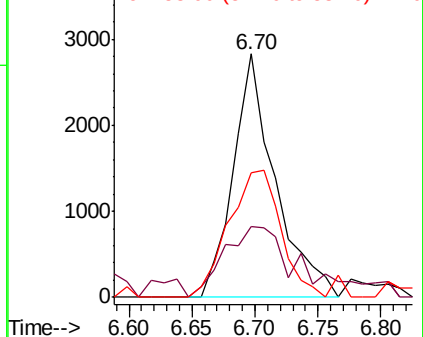
58 51.2 59.4 89.2#



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: 49.892 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061787.D

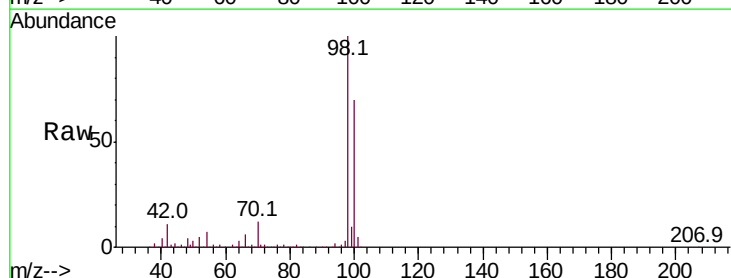
Acq: 28 Feb 2019 15:01

Tgt Ion: 98 Resp: 489892

Ion Ratio Lower Upper

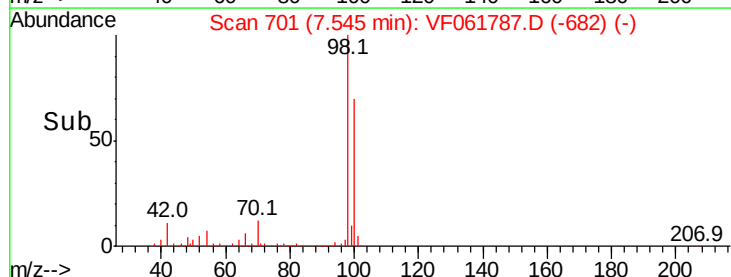
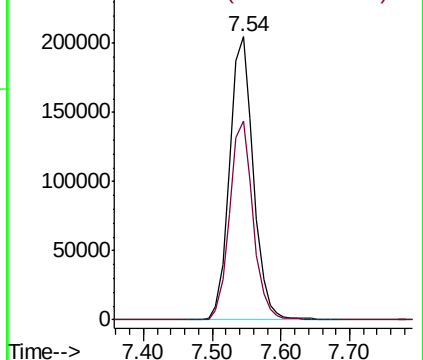
98 100

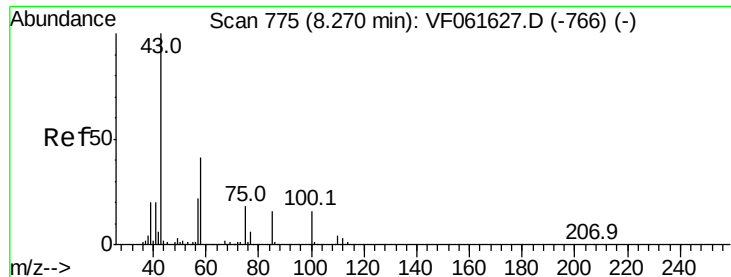
100 70.3 55.4 83.2



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: 108.031 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

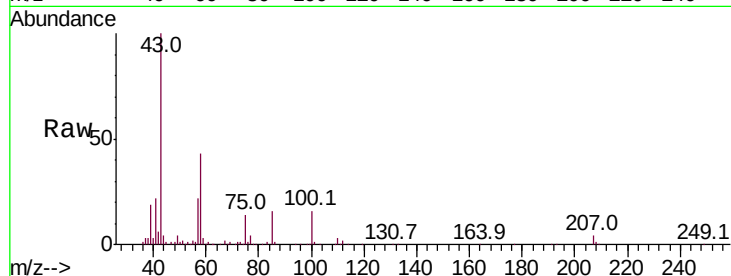
VF0228SBS01

Tot Ion: 43 Resp: 193370

Ion Ratio Lower Upper

43 100

58 42.6 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

80000

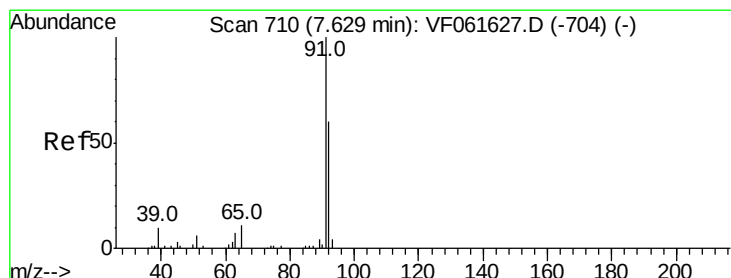
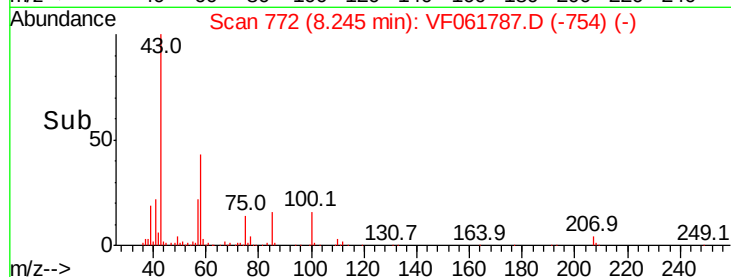
60000

40000

20000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 21.978 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061787.D

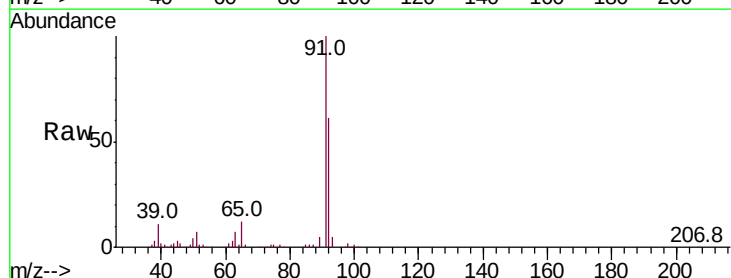
Acq: 28 Feb 2019 15:01

Tgt Ion: 92 Resp: 158857

Ion Ratio Lower Upper

92 100

91 163.4 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

120000

100000

80000

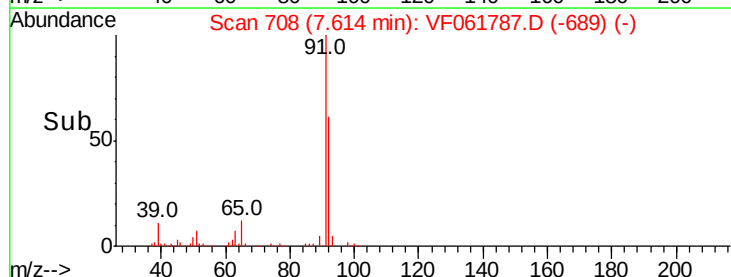
60000

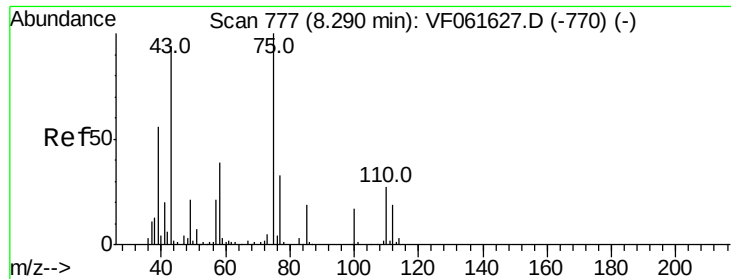
40000

20000

0

Time--> 7.50 7.60 7.70 7.80





#53

t-1,3-Dichloropropene

Concen: 22.853 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

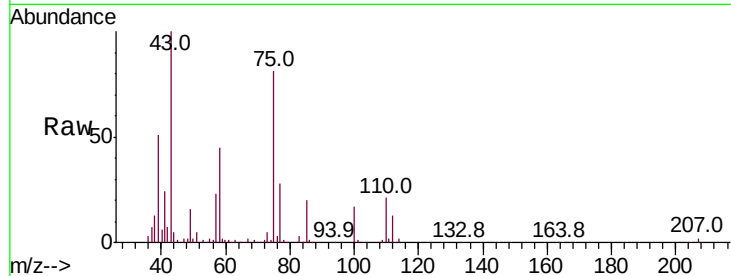
VF0228SBS01

Tot Ion: 75 Resp: 73876

Ion Ratio Lower Upper

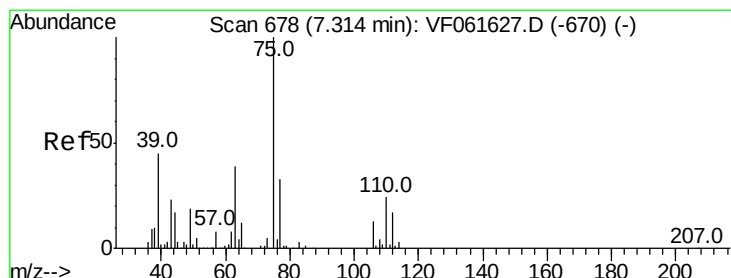
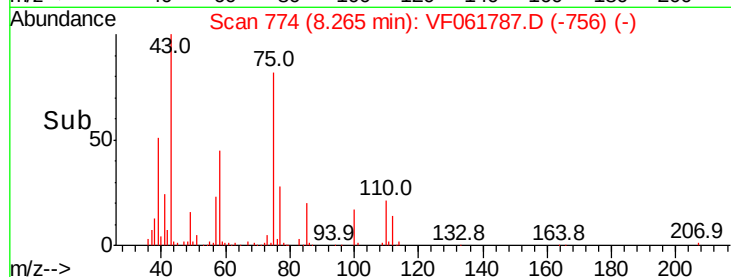
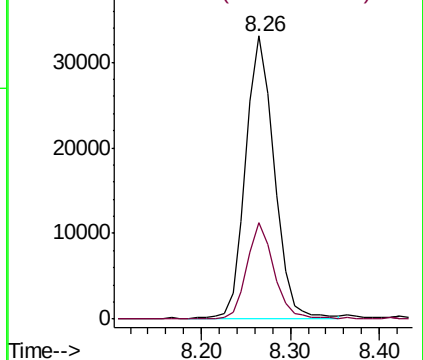
75 100

77 34.3 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 23.356 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

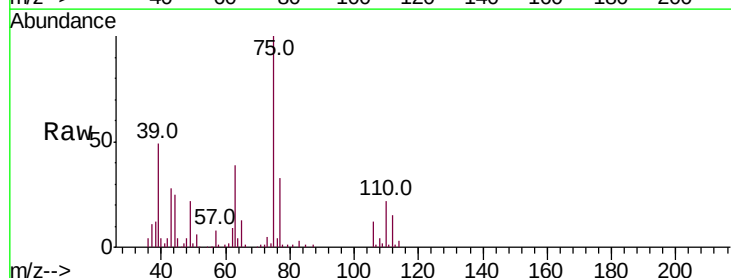
Tgt Ion: 75 Resp: 100569

Ion Ratio Lower Upper

75 100

77 33.1 26.4 39.6

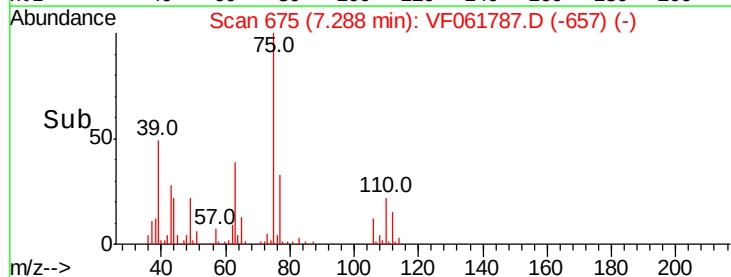
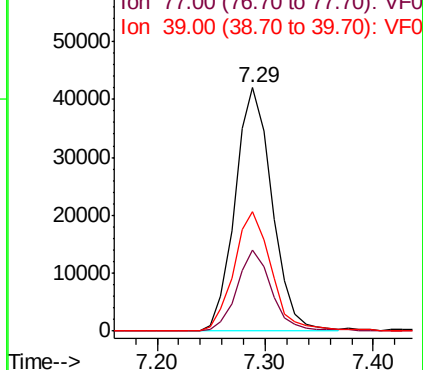
39 49.0 36.0 54.0

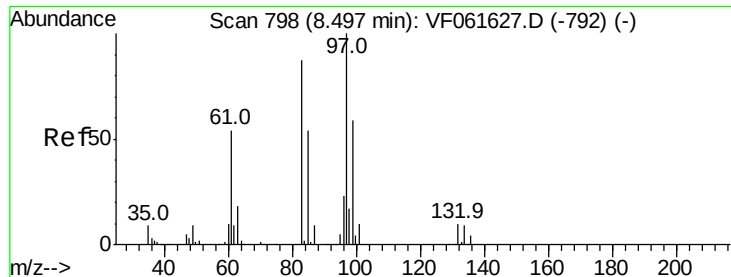


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 21.953 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 97 Resp: 46622

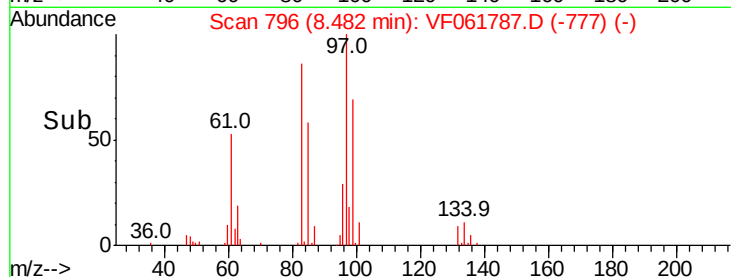
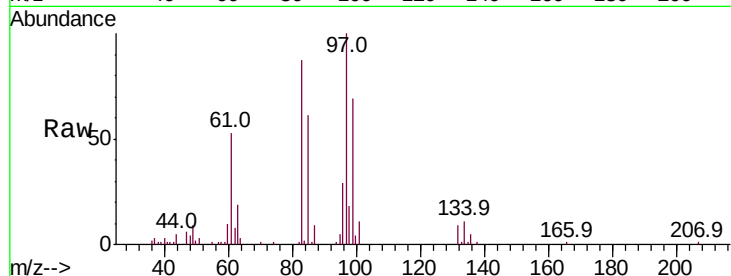
Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.2	103.8
85	60.7	43.0	64.4
99	68.7	47.2	70.8

97 100

83 87.1 69.2 103.8

85 60.7 43.0 64.4

99 68.7 47.2 70.8

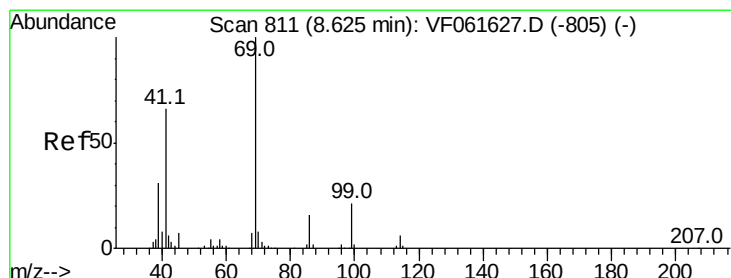
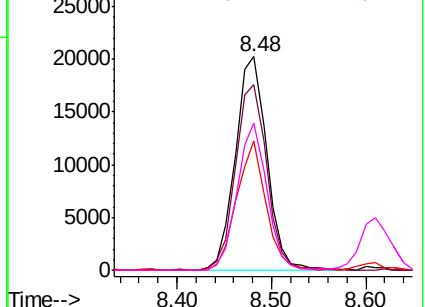


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 21.905 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

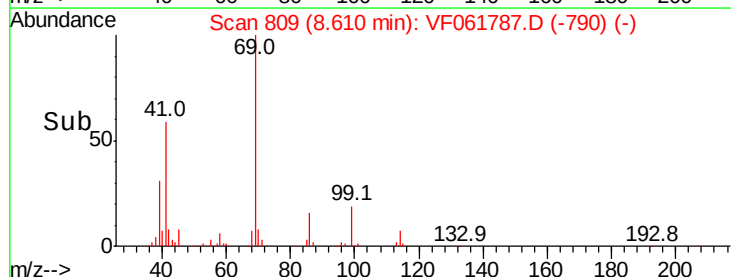
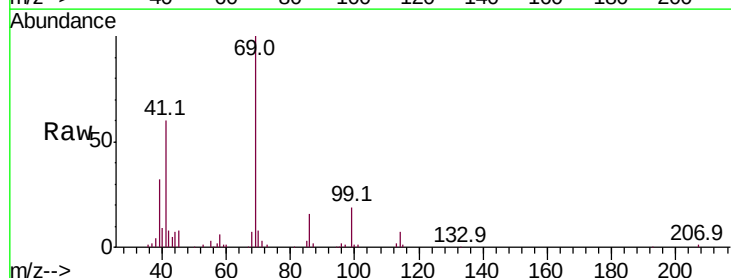
Tgt Ion: 69 Resp: 51793

Ion	Ratio	Lower	Upper
69	100		
41	59.5	52.9	79.3
39	32.3	24.5	36.7

69 100

41 59.5 52.9 79.3

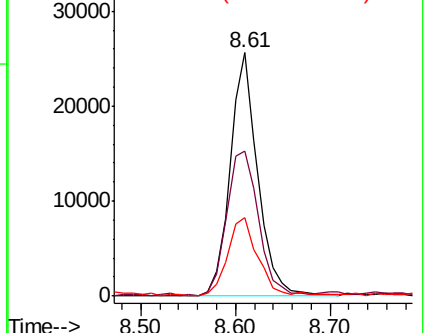
39 32.3 24.5 36.7

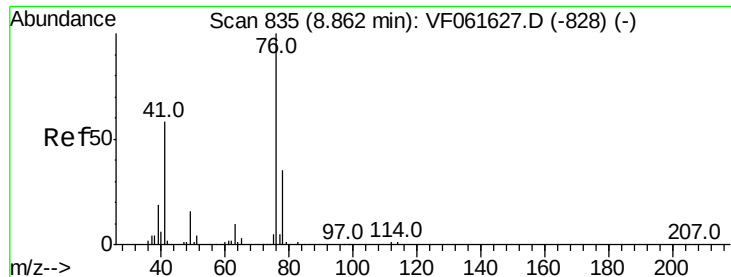


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.721 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

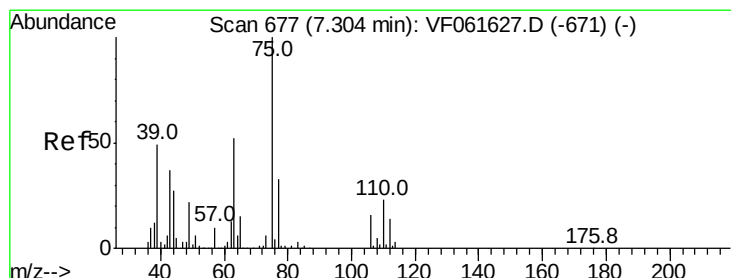
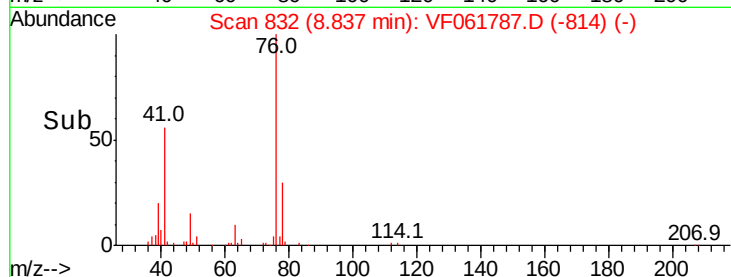
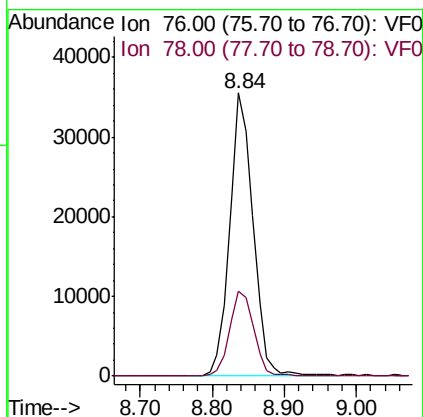
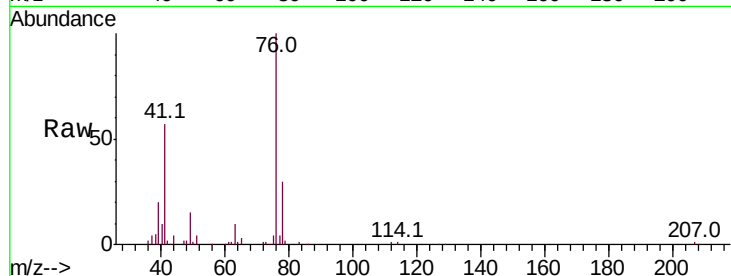
VF0228SBS01

Tot Ion: 76 Resp: 80537

Ion Ratio Lower Upper

76 100

78 30.0 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 103.477 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061787.D

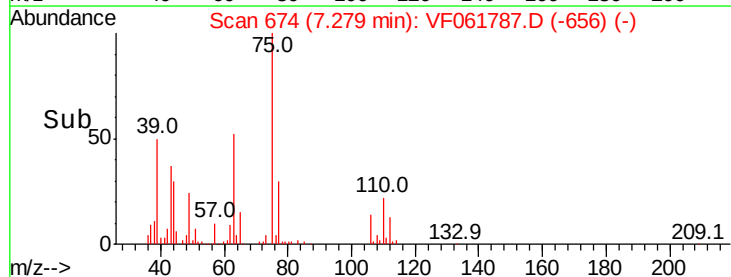
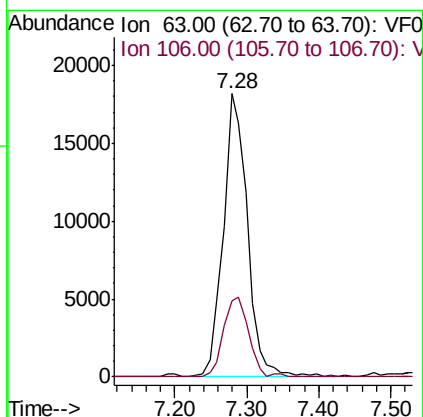
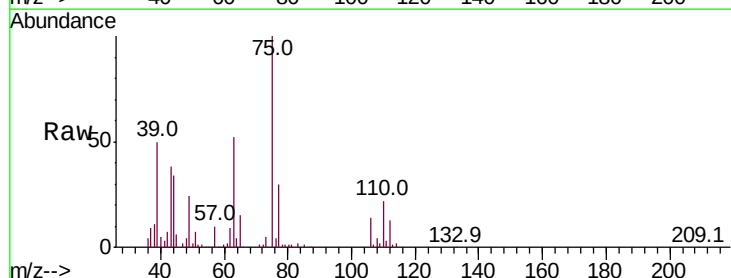
Acq: 28 Feb 2019 15:01

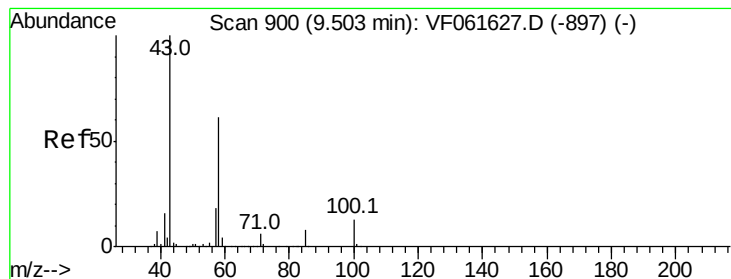
Tgt Ion: 63 Resp: 42213

Ion Ratio Lower Upper

63 100

106 26.9 24.6 36.8





#59

2-Hexanone

Concen: 112.773 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

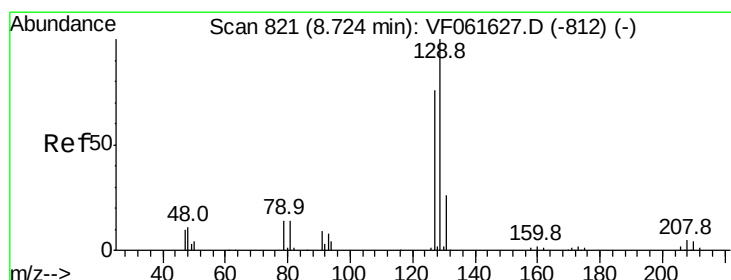
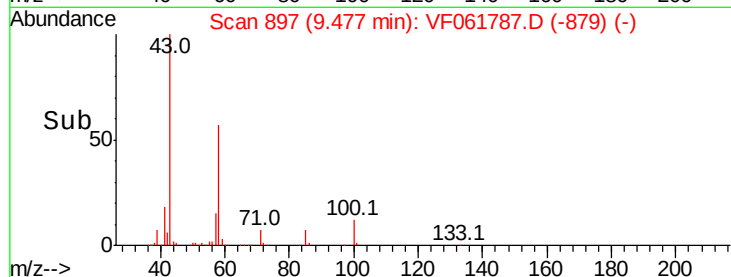
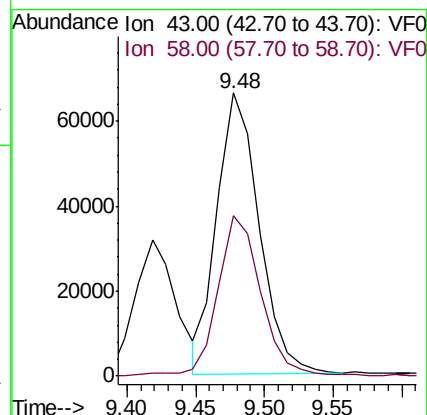
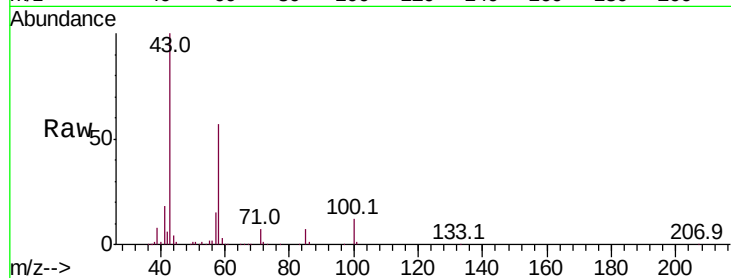
VF0228SBS01

Tot Ion: 43 Resp: 141498

Ion Ratio Lower Upper

43 100

58 56.8 28.5 85.5



#60

Dibromochloromethane

Concen: 22.545 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061787.D

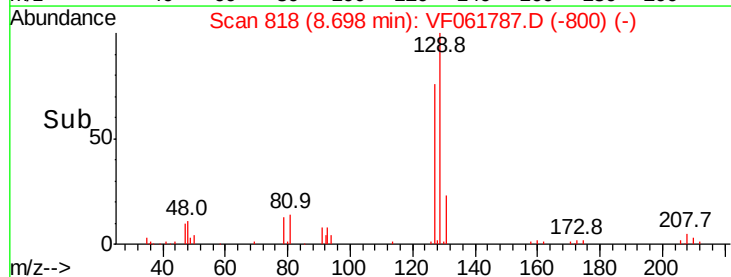
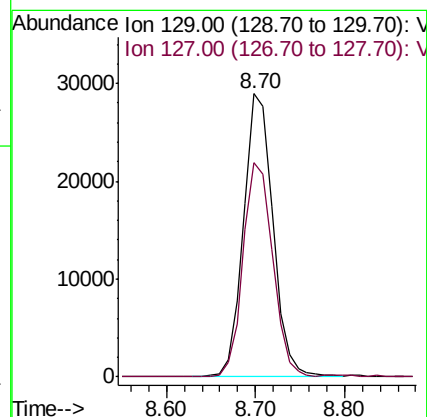
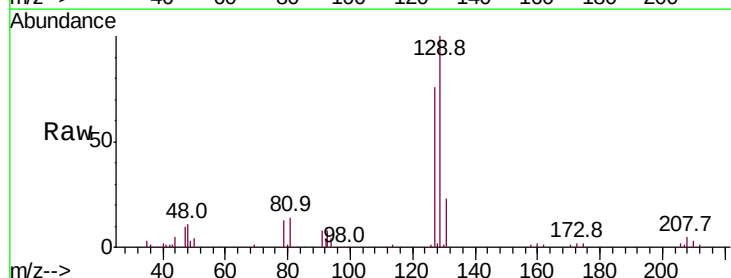
Acq: 28 Feb 2019 15:01

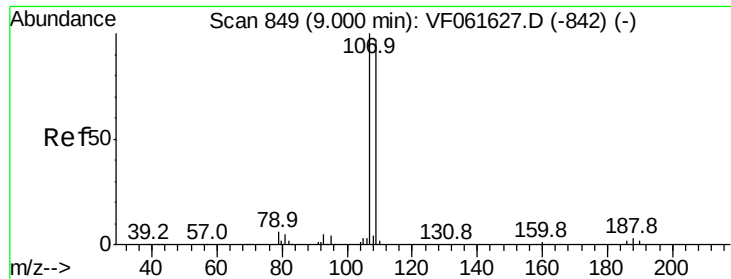
Tgt Ion: 129 Resp: 66641

Ion Ratio Lower Upper

129 100

127 75.6 37.8 113.4

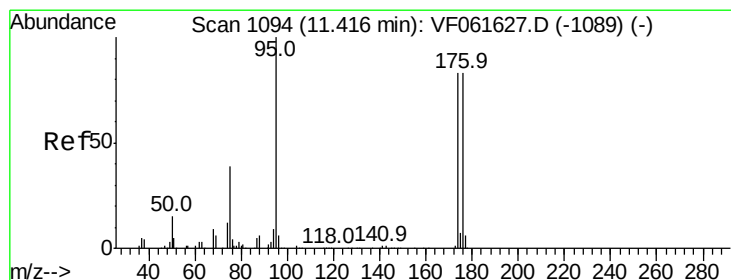
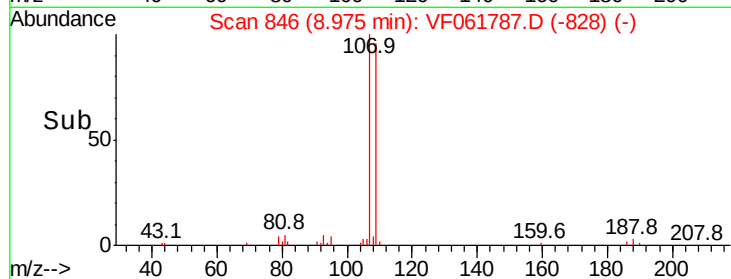
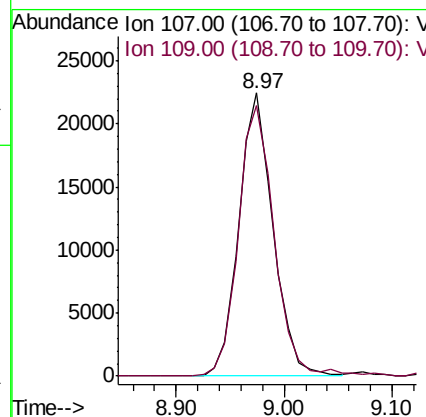
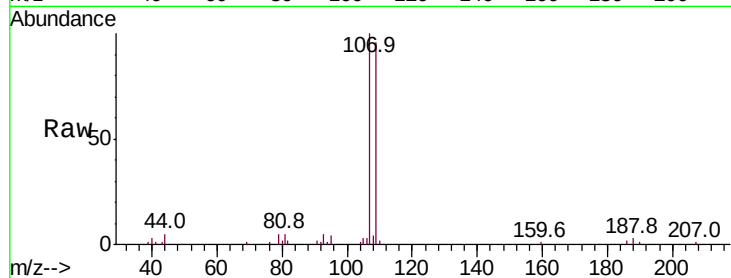




#61
 1,2-Dibromoethane
 Concen: 21.464 ug/l
 RT: 8.97 min Scan# 846
 Delta R.T. -0.03 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

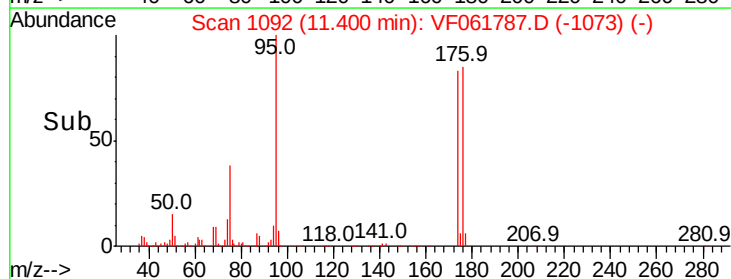
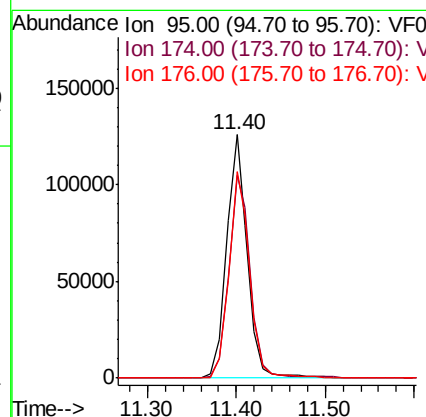
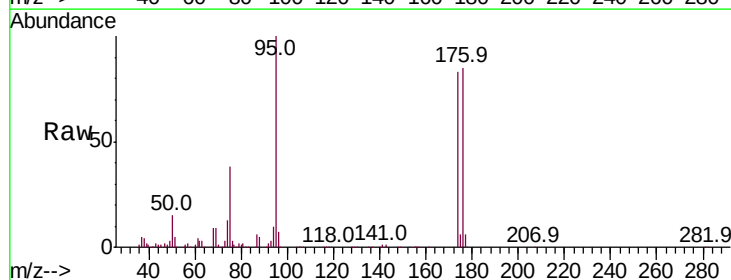
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

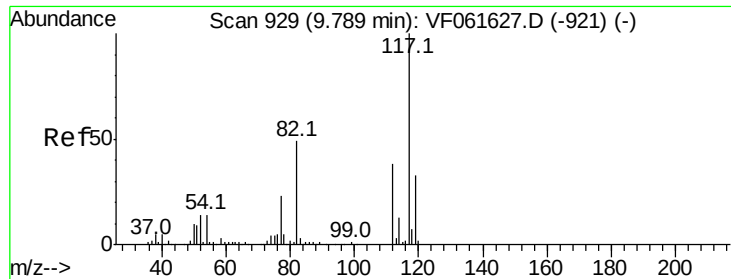
Tot Ion:107 Resp: 49440
 Ion Ratio Lower Upper
 107 100
 109 95.5 77.4 116.0



#62
 4-Bromofluorobenzene
 Concen: 51.880 ug/l
 RT: 11.40 min Scan# 1092
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion: 95 Resp: 206115
 Ion Ratio Lower Upper
 95 100
 174 83.3 0.0 165.8
 176 84.9 0.0 167.0

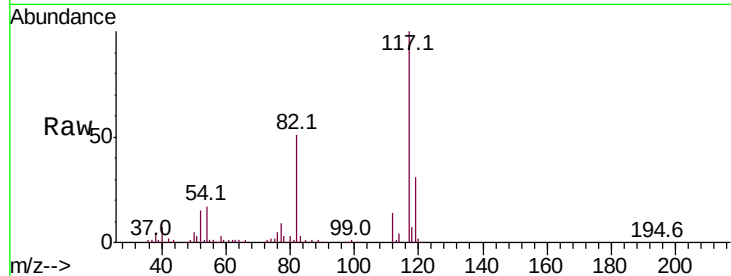




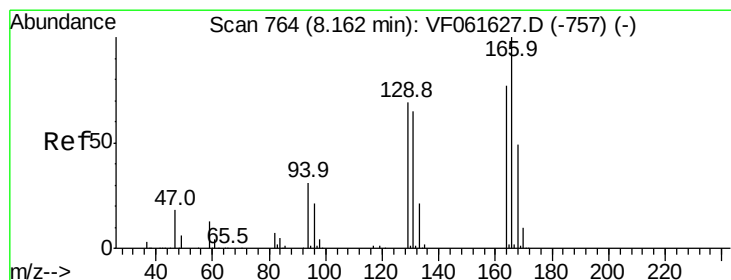
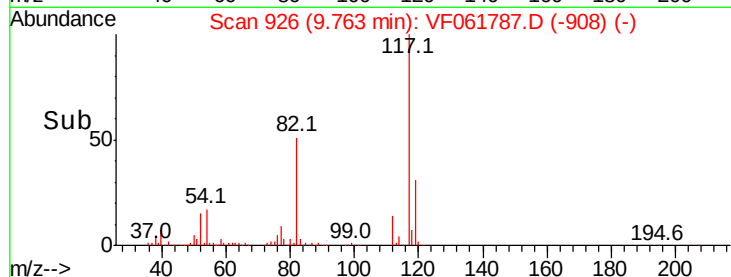
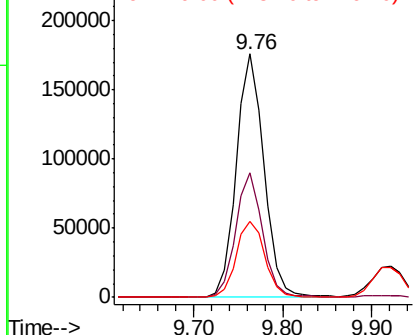
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion:117 Resp: 381492
Ion Ratio Lower Upper
117 100
82 50.9 39.3 58.9
119 31.3 26.6 40.0

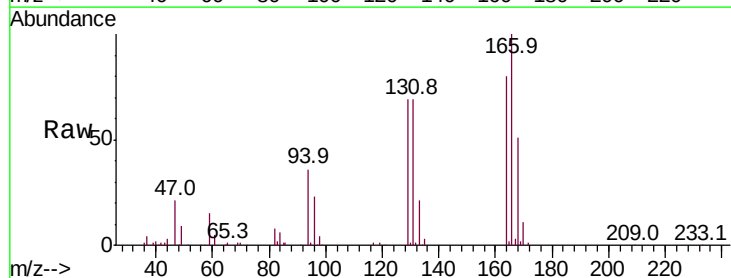


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

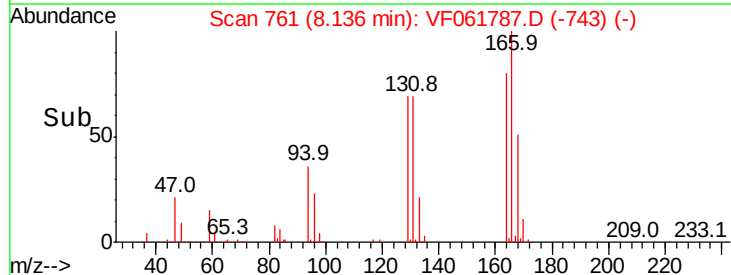
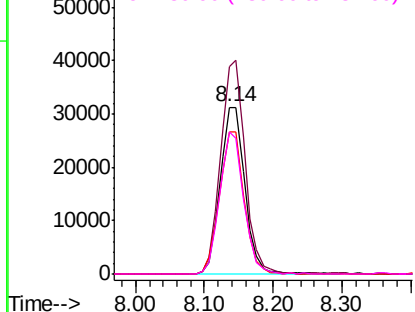


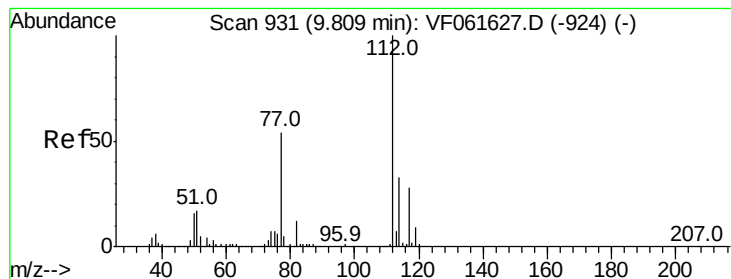
#64
Tetrachloroethene
Concen: 24.822 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion:164 Resp: 77400
Ion Ratio Lower Upper
164 100
166 124.4 103.9 155.9
129 85.4 71.3 106.9
131 85.3 67.1 100.7



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: 23.272 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

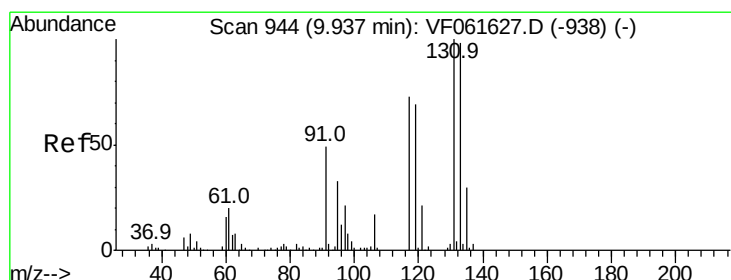
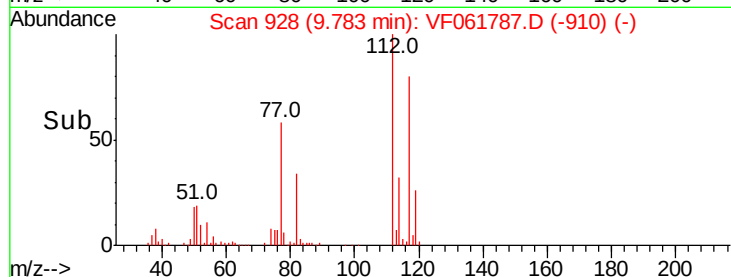
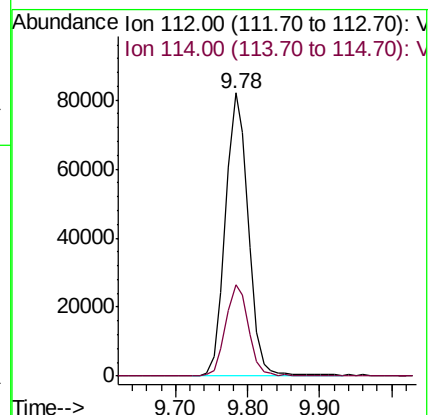
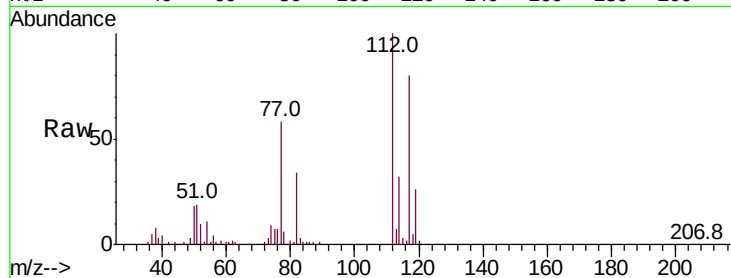
VF0228SBS01

Tot Ion:112 Resp: 180159

Ion Ratio Lower Upper

112 100

114 32.5 26.2 39.2



#66

1,1,1,2-Tetrachloroethane

Concen: 24.631 ug/l

RT: 9.92 min Scan# 942

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

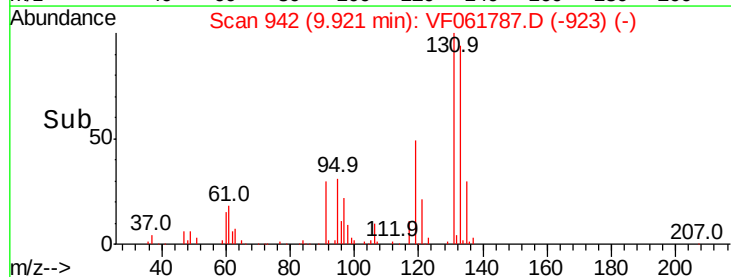
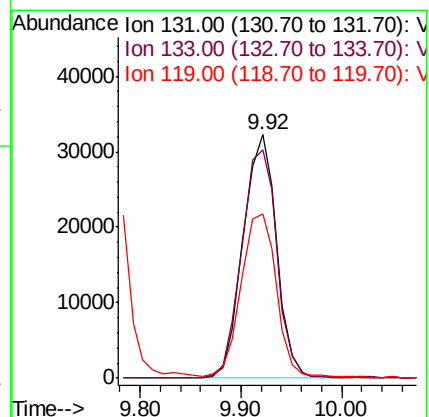
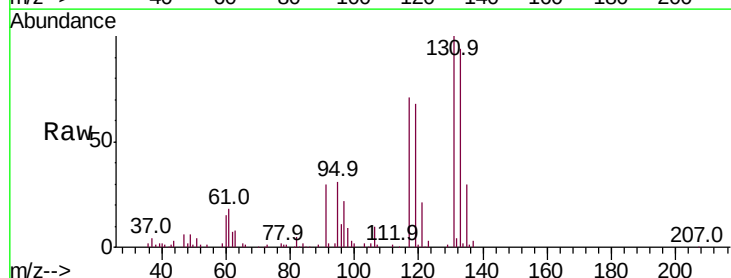
Tgt Ion:131 Resp: 74718

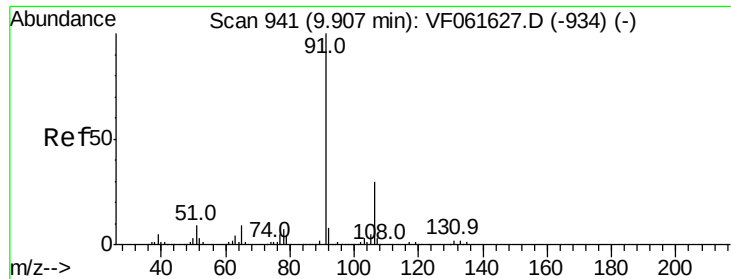
Ion Ratio Lower Upper

131 100

133 93.9 48.9 146.6

119 67.6 34.8 104.3





#67

Ethyl Benzene

Concen: 23.559 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

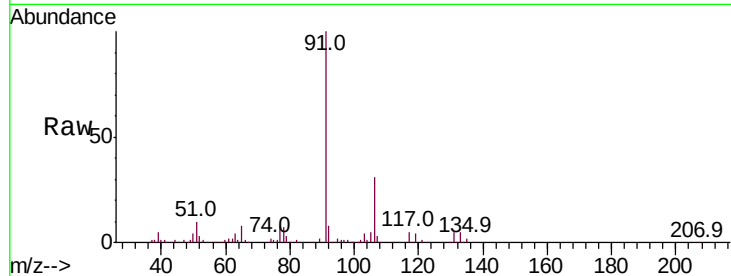
VF0228SBS01

Tot Ion: 91 Resp: 303290

Ion Ratio Lower Upper

91 100

106 31.4 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

9.89

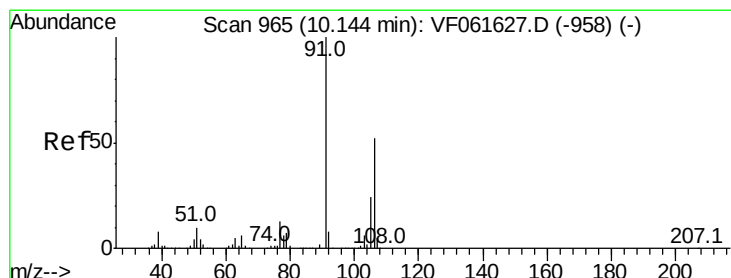
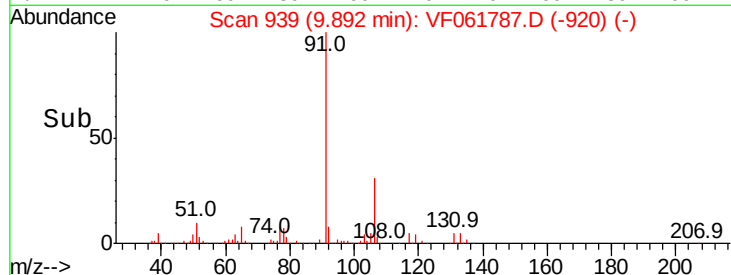
150000

100000

50000

0

Time-->



#68

m/p-Xylenes

Concen: 49.460 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF061787.D

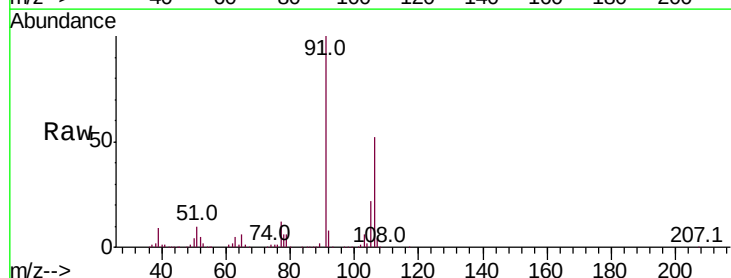
Acq: 28 Feb 2019 15:01

Tgt Ion:106 Resp: 243690

Ion Ratio Lower Upper

106 100

91 191.8 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

10.12

250000

200000

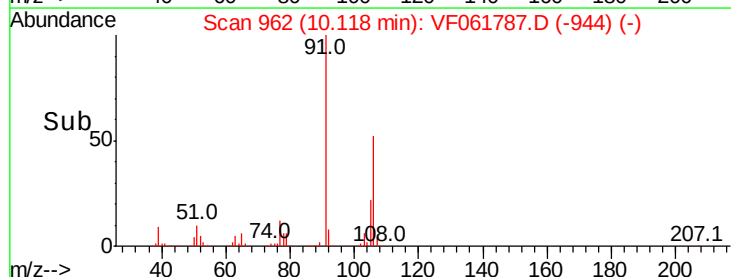
150000

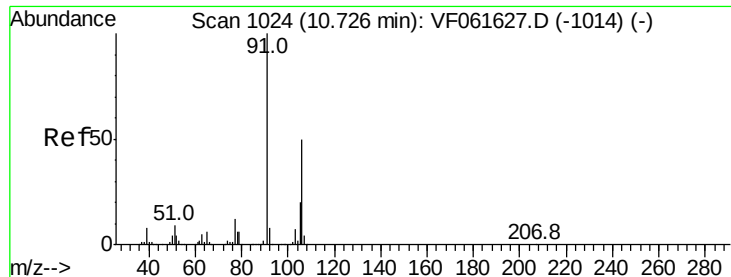
100000

50000

0

Time-->

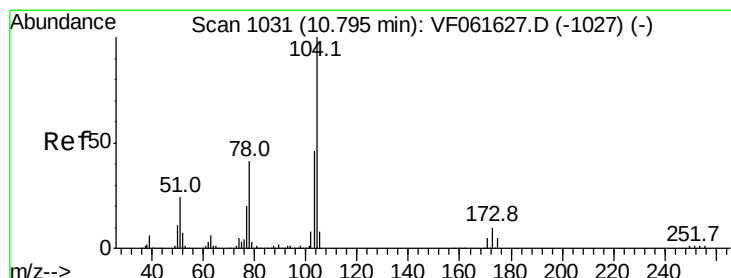
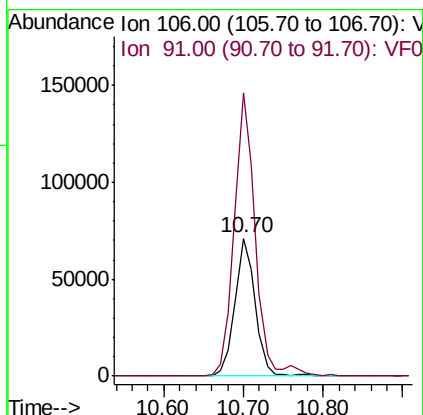
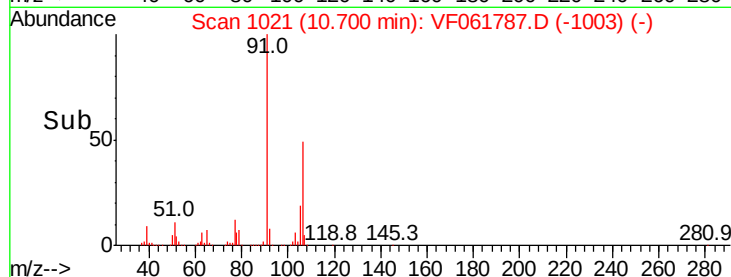
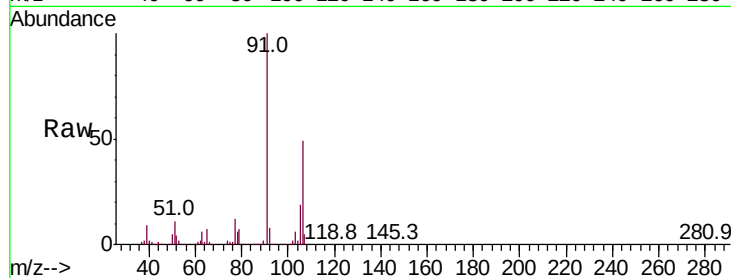




#69
o-Xylene
Concen: 24.220 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

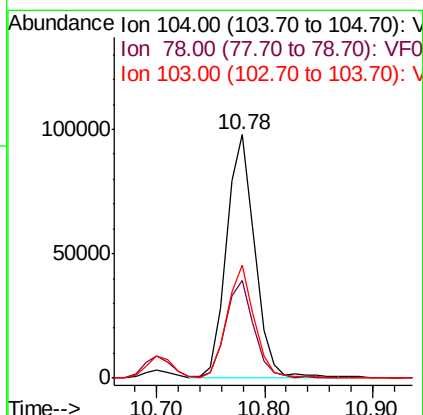
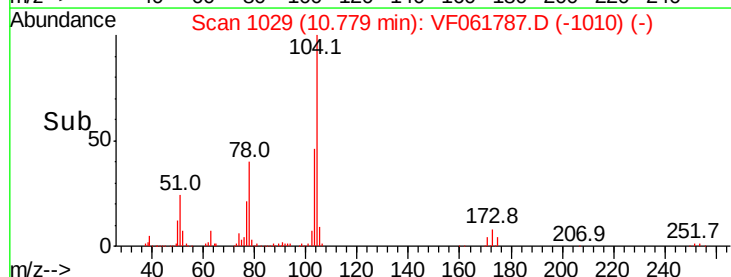
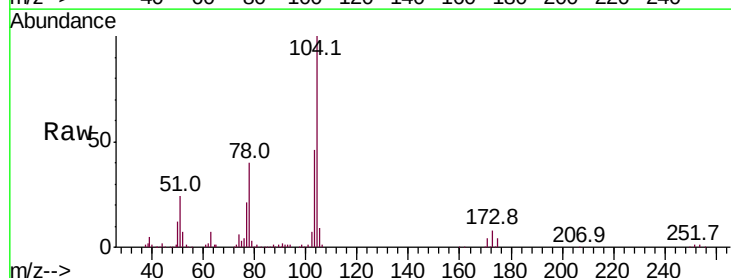
Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

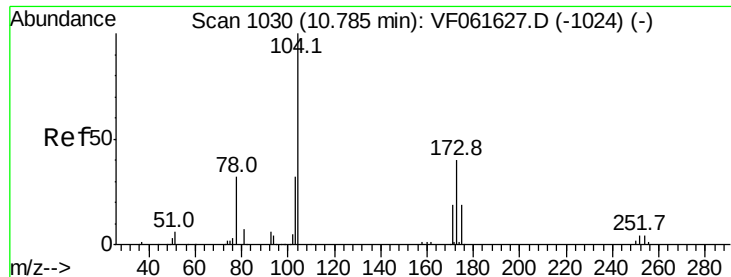
Tot Ion:106 Resp: 127335
Ion Ratio Lower Upper
106 100
91 206.0 100.1 300.1



#70
Styrene
Concen: 23.813 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion:104 Resp: 177105
Ion Ratio Lower Upper
104 100
78 40.4 33.2 49.8
103 46.4 37.2 55.8





#71

Bromoform

Concen: 23.843 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

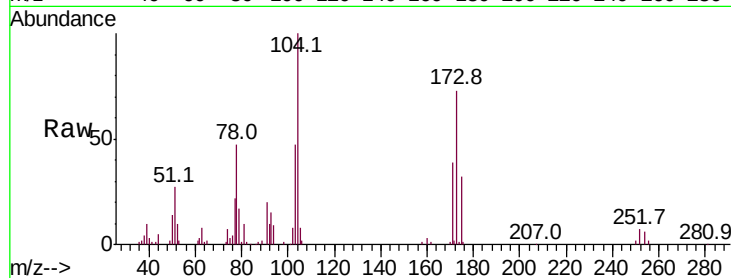
Tot Ion:173 Resp: 39274

Ion Ratio Lower Upper

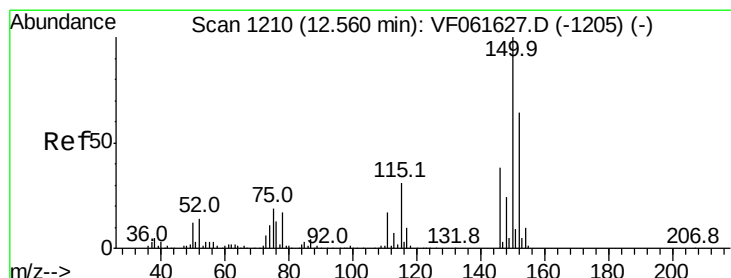
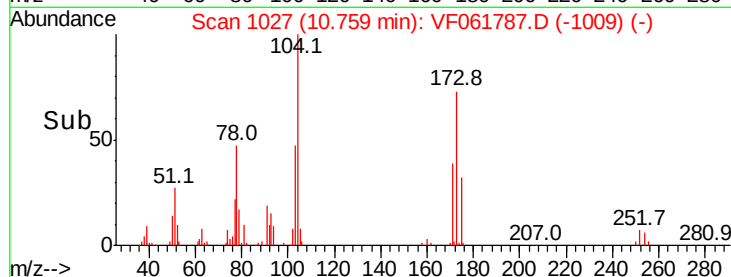
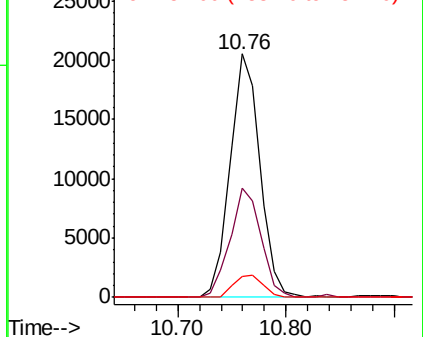
173 100

175 44.6 24.0 72.0

254 8.3 8.2 12.2



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

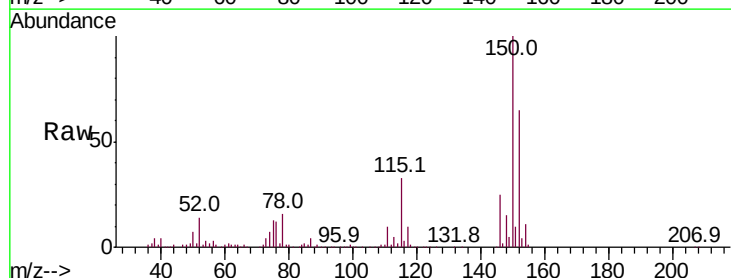
Tgt Ion:152 Resp: 233665

Ion Ratio Lower Upper

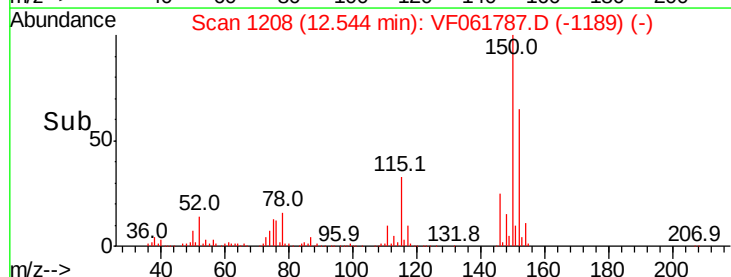
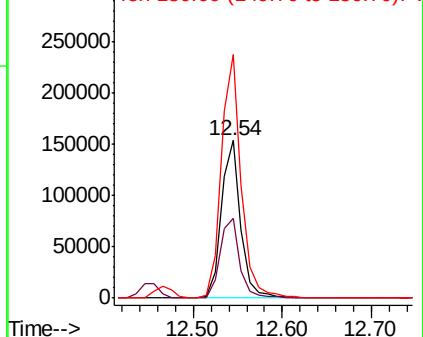
152 100

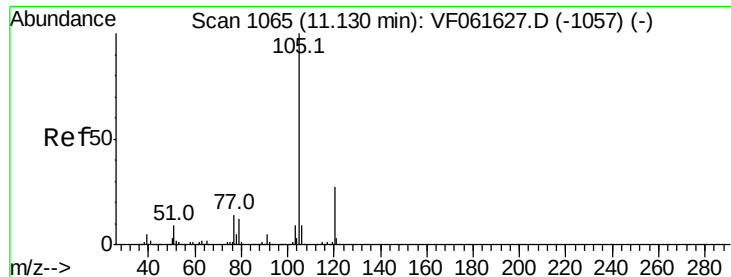
115 50.7 24.3 72.8

150 154.3 0.0 312.0



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





#73

Isopropylbenzene

Concen: 21.344 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

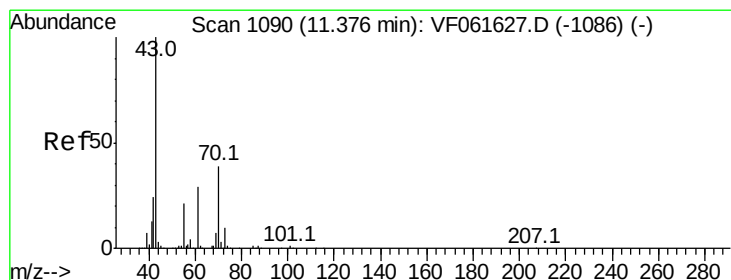
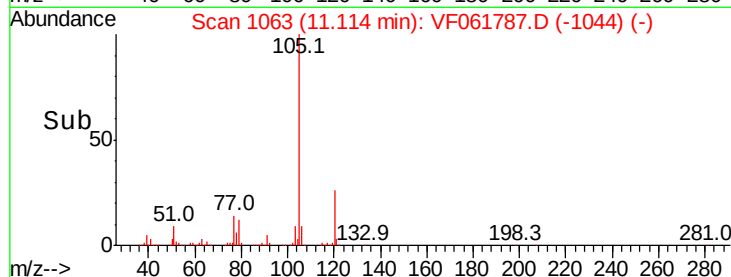
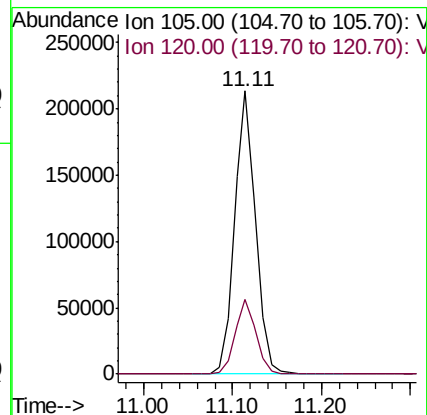
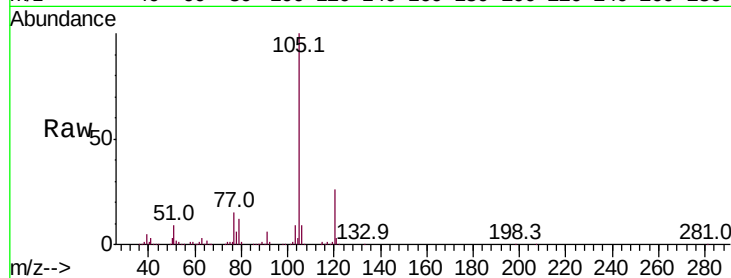
VF0228SBS01

Tot Ion:105 Resp: 355098

Ion Ratio Lower Upper

105 100

120 26.5 13.4 40.1



#74

N-ethyl acetate

Concen: 22.519 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion: 43 Resp: 89923

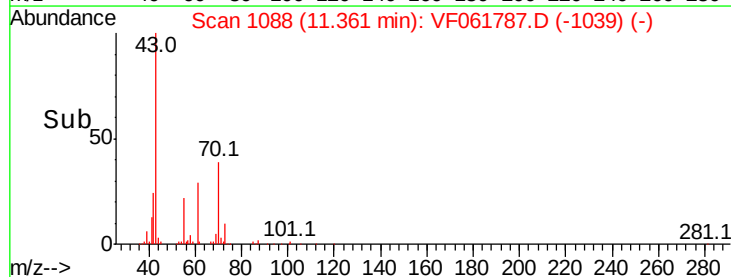
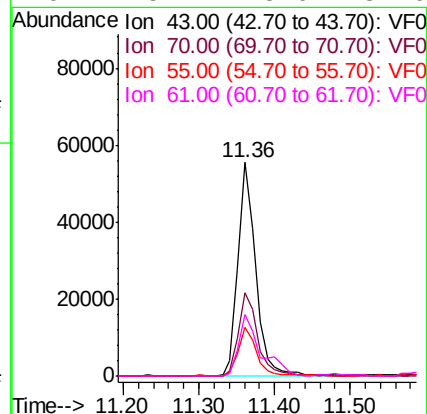
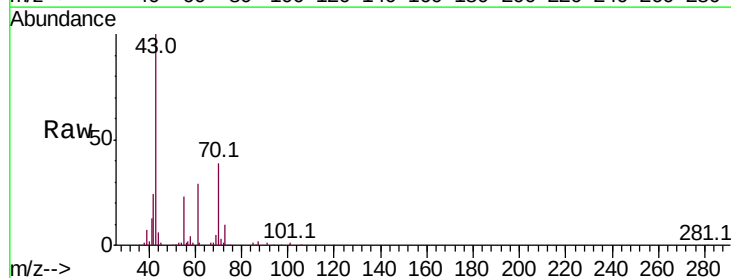
Ion Ratio Lower Upper

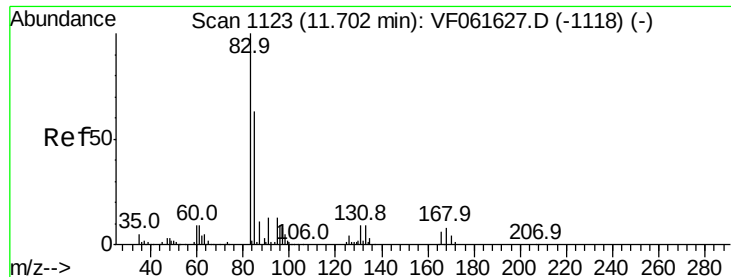
43 100

70 38.9 31.5 47.3

55 22.5 16.7 25.1

61 28.7 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 20.033 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

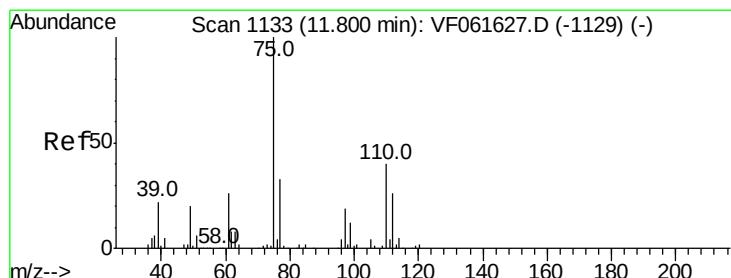
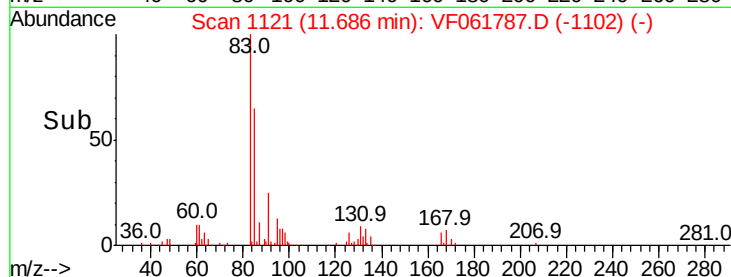
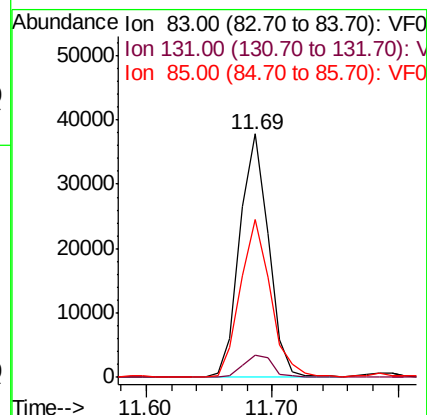
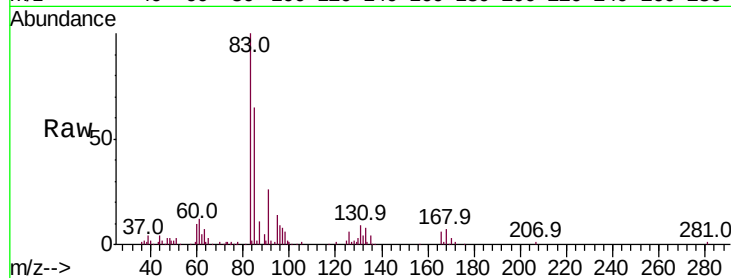
Tot Ion: 83 Resp: 59707

Ion Ratio Lower Upper

83 100

131 9.0 4.4 13.2

85 64.9 31.5 94.5



#76

1,2,3-Trichloropropane

Concen: 20.519 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF061787.D

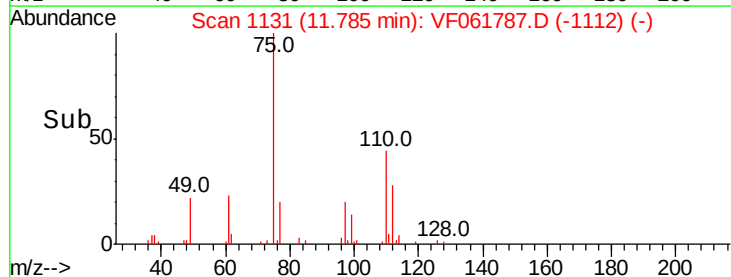
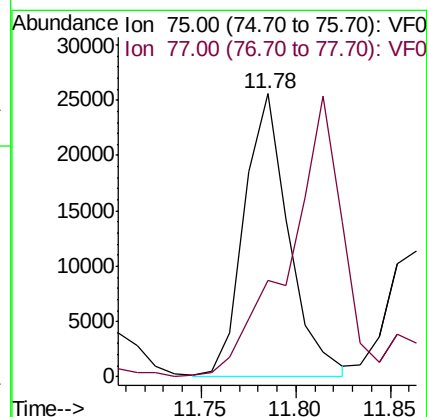
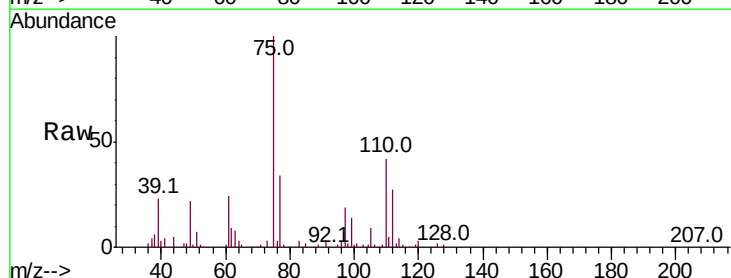
Acq: 28 Feb 2019 15:01

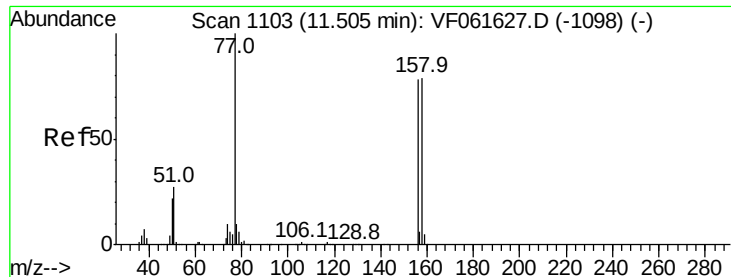
Tgt Ion: 75 Resp: 41579

Ion Ratio Lower Upper

75 100

77 34.2 16.6 49.7





#77

Bromobenzene

Concen: 20.878 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

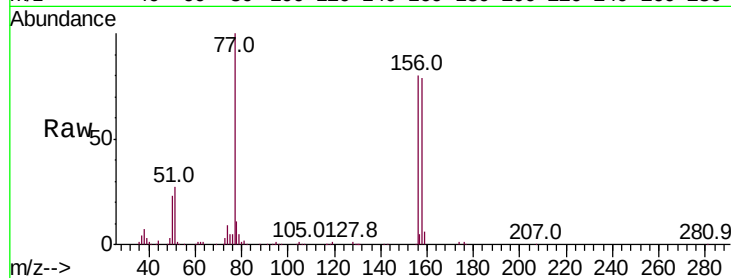
Tot Ion:156 Resp: 85806

Ion Ratio Lower Upper

156 100

77 124.8 64.3 192.7

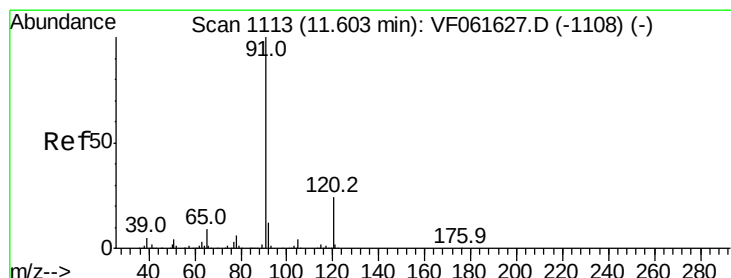
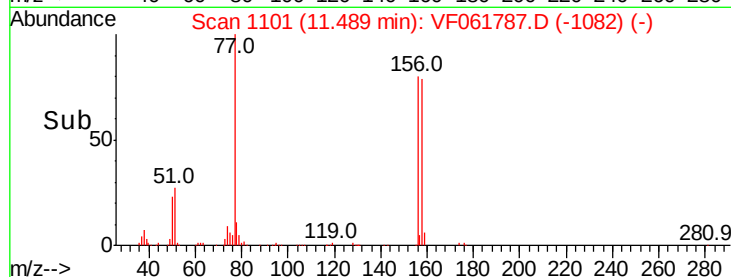
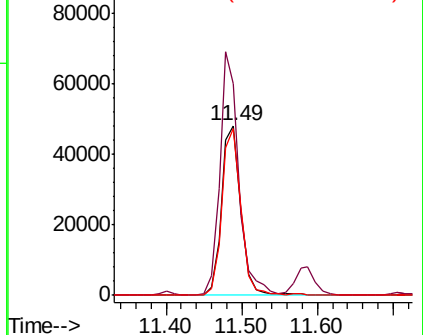
158 98.4 50.9 152.7



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: 21.158 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF061787.D

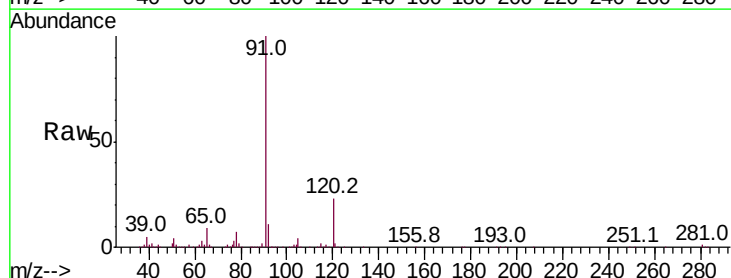
Acq: 28 Feb 2019 15:01

Tgt Ion: 91 Resp: 403927

Ion Ratio Lower Upper

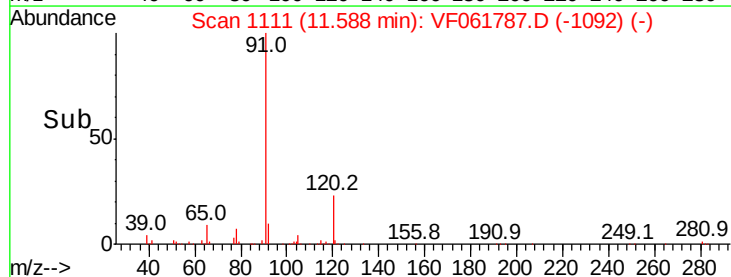
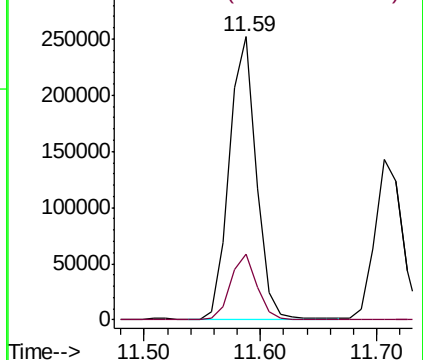
91 100

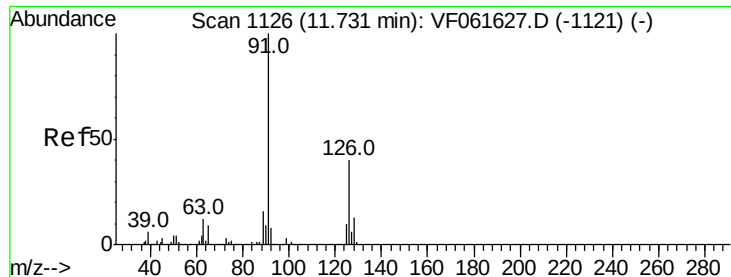
120 23.1 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.522 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

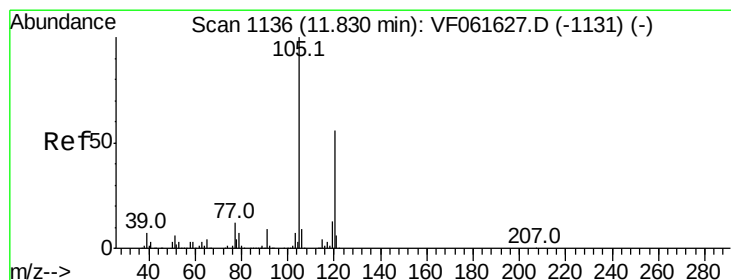
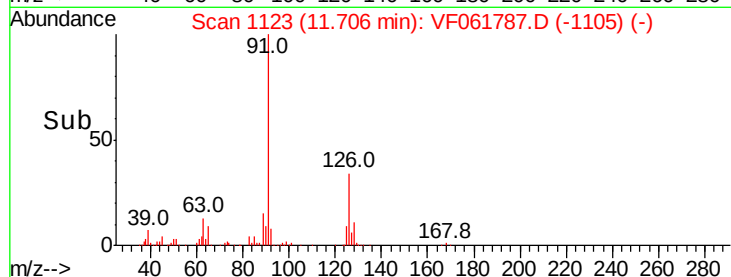
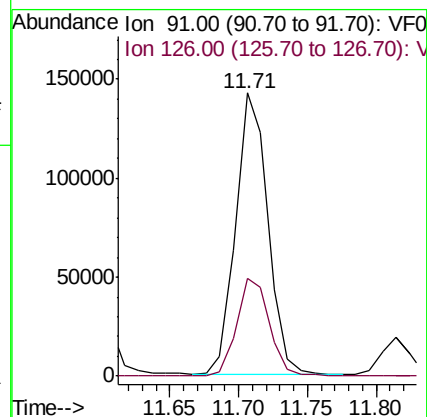
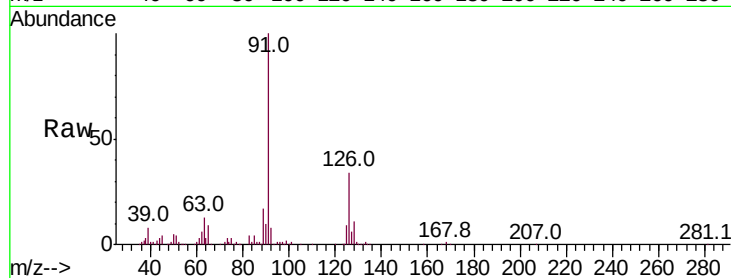
VF0228SBS01

Tot Ion: 91 Resp: 230106

Ion Ratio Lower Upper

91 100

126 34.4 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 21.911 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061787.D

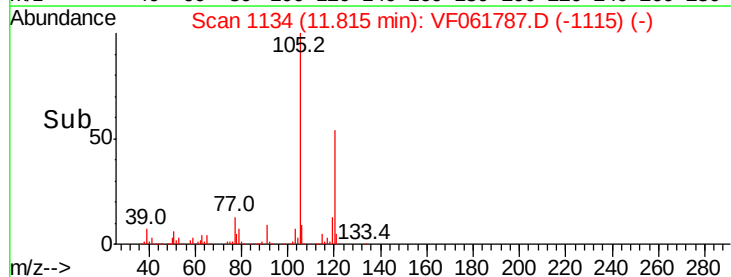
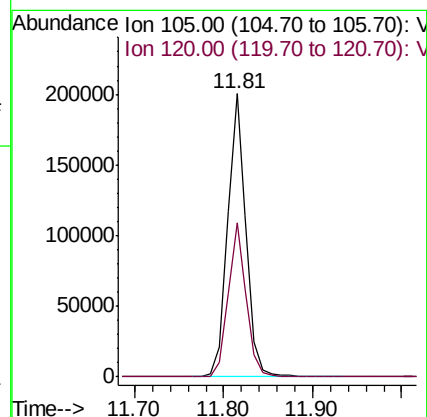
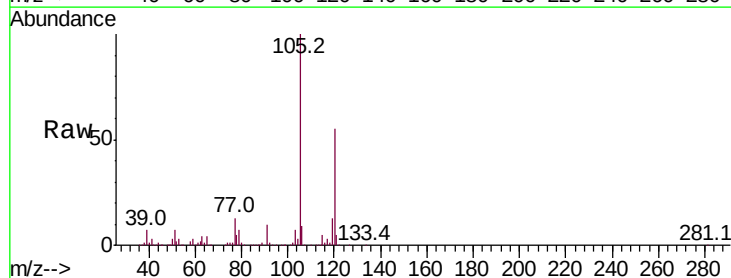
Acq: 28 Feb 2019 15:01

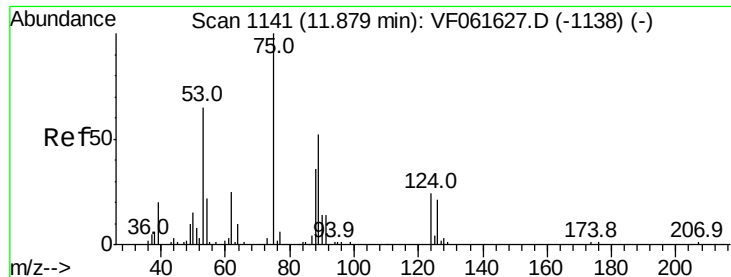
Tgt Ion:105 Resp: 291347

Ion Ratio Lower Upper

105 100

120 54.5 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 26.950 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

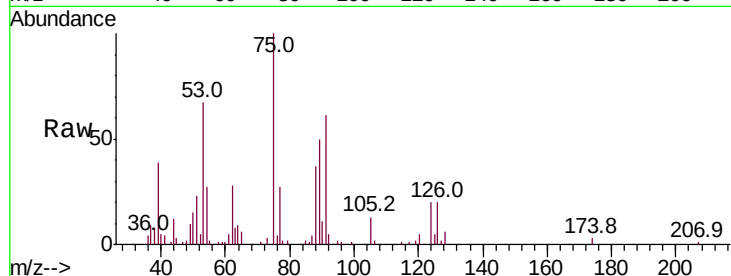
Tot Ion: 75 Resp: 26181

Ion Ratio Lower Upper

75 100

53 66.8 53.7 80.5

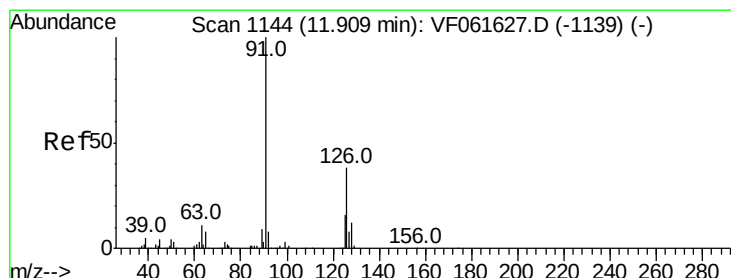
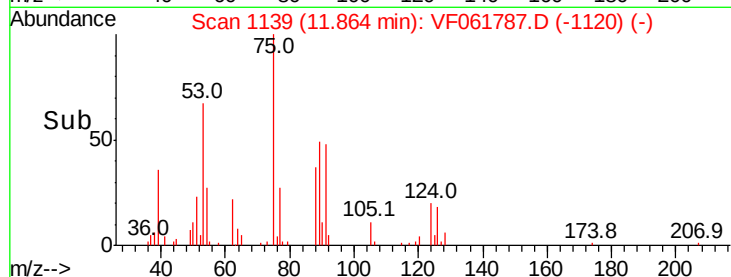
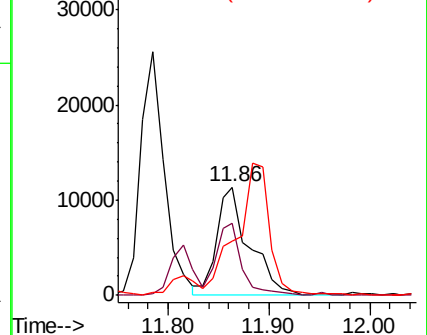
89 50.0 41.6 62.4



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: 20.877 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VF061787.D

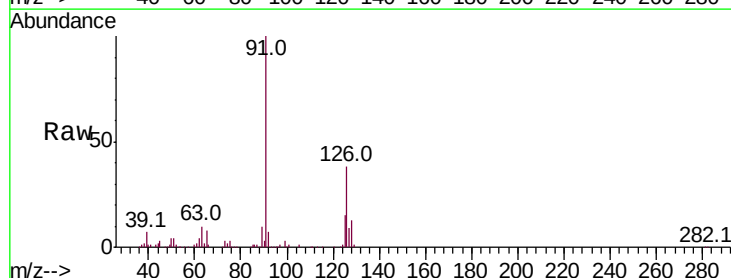
Acq: 28 Feb 2019 15:01

Tgt Ion: 91 Resp: 231679

Ion Ratio Lower Upper

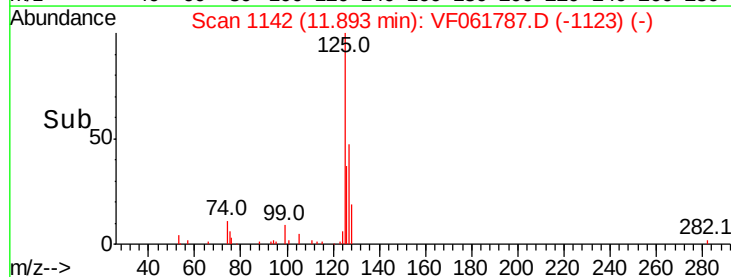
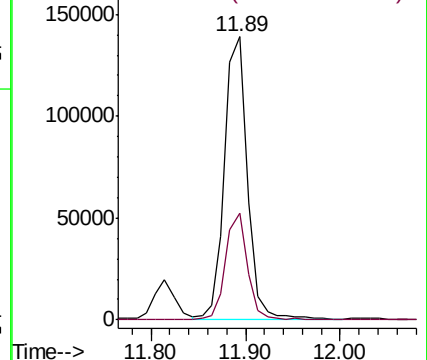
91 100

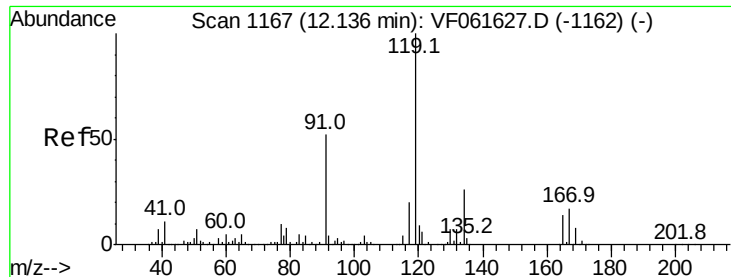
126 37.5 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

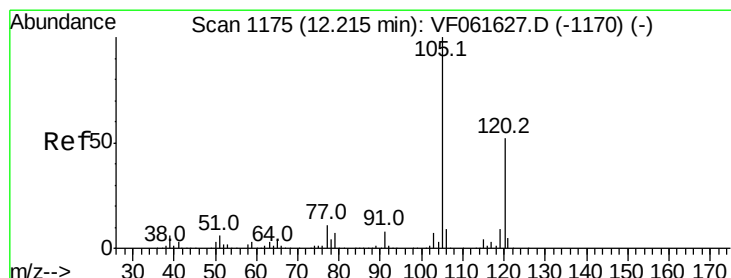
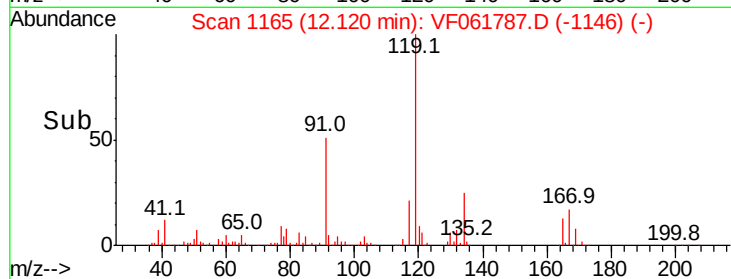
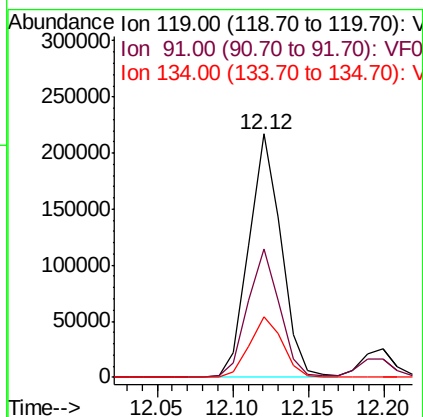
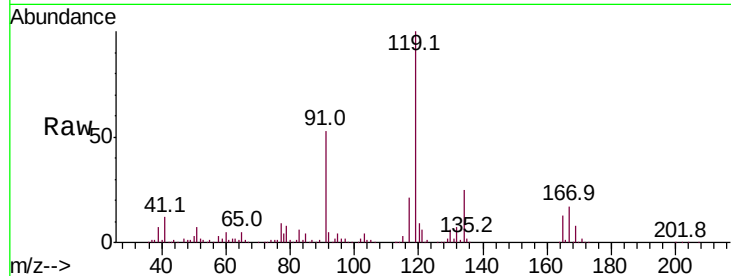




#83
tert-Butylbenzene
Concen: 22.106 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

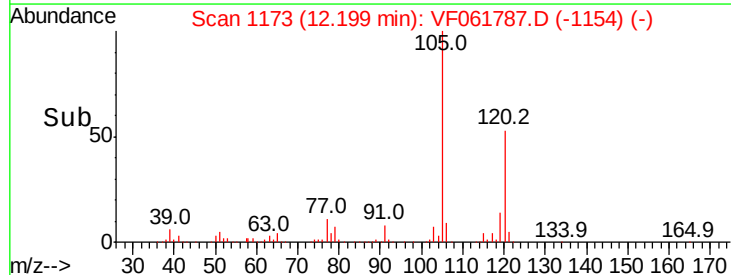
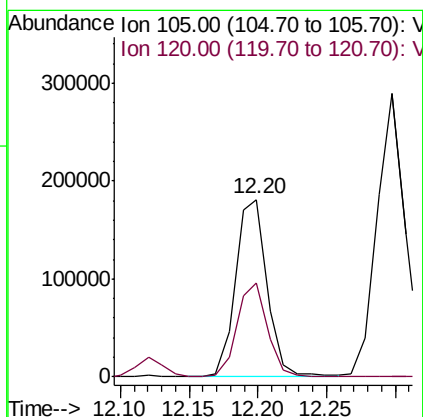
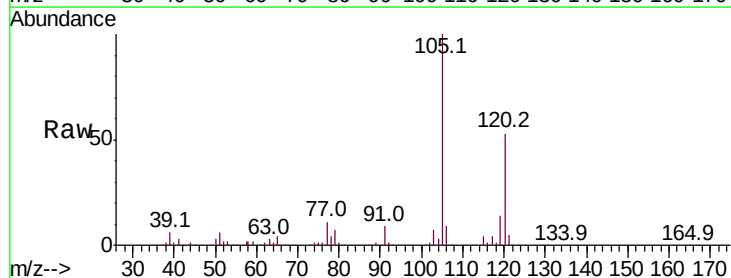
Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

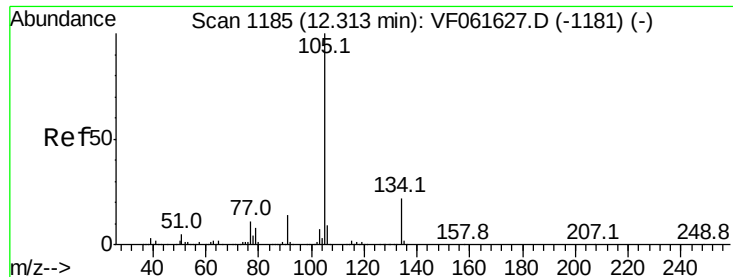
Tot Ion:119 Resp: 325563
Ion Ratio Lower Upper
119 100
91 52.6 26.3 78.8
134 25.0 12.9 38.7



#84
1,2,4-Trimethylbenzene
Concen: 21.872 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion:105 Resp: 288933
Ion Ratio Lower Upper
105 100
120 53.2 26.1 78.3





#85

sec-Butylbenzene

Concen: 21.795 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

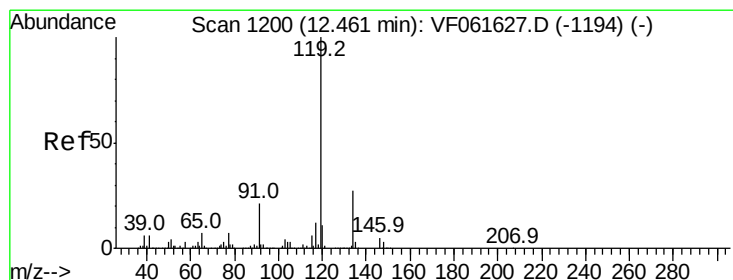
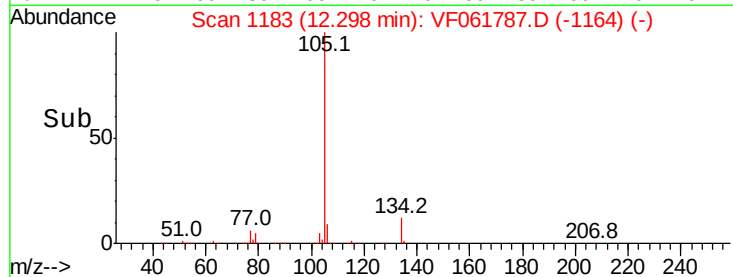
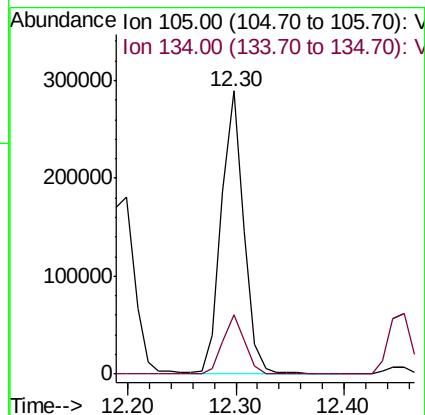
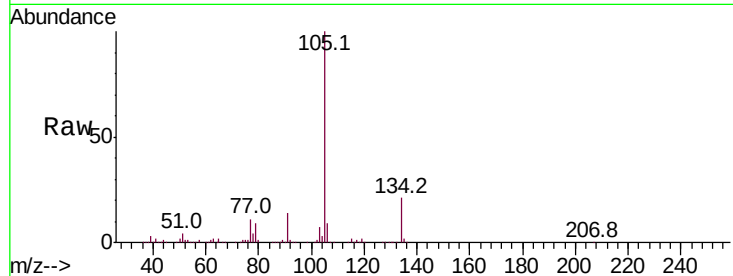
VF0228SBS01

Tot Ion:105 Resp: 415073

Ion Ratio Lower Upper

105 100

134 21.2 10.8 32.4



#86

p-Isopropyltoluene

Concen: 22.152 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

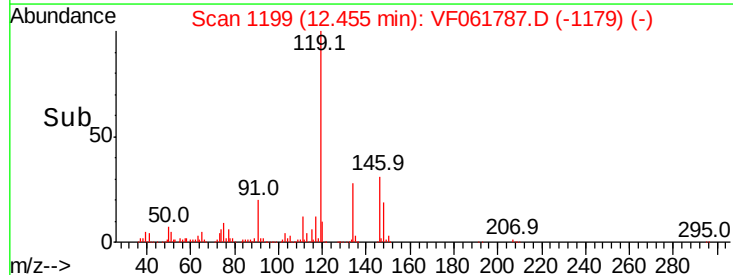
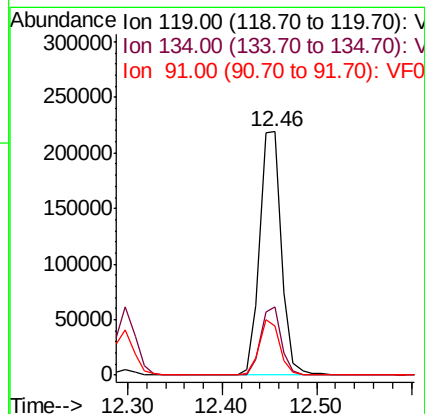
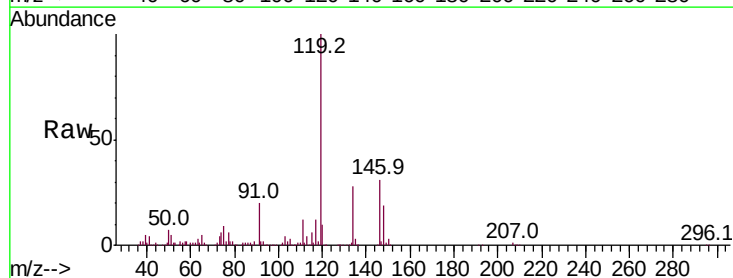
Tgt Ion:119 Resp: 354060

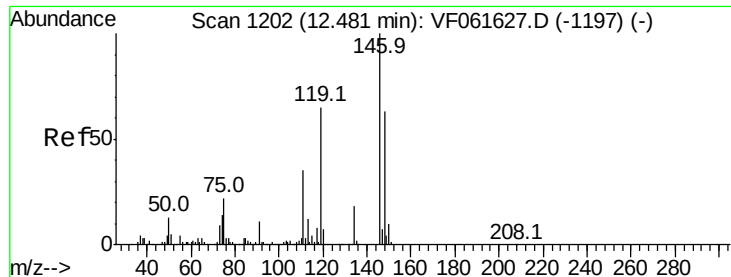
Ion Ratio Lower Upper

119 100

134 28.0 13.7 41.1

91 20.3 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 21.458 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. -0.02 min

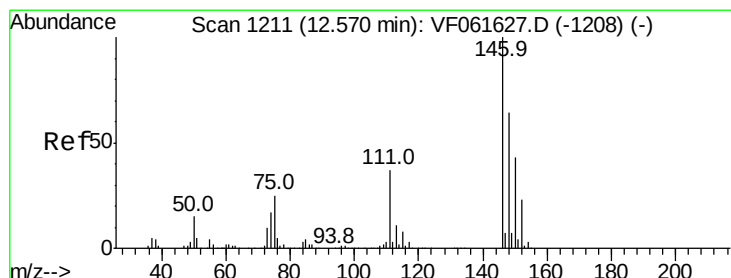
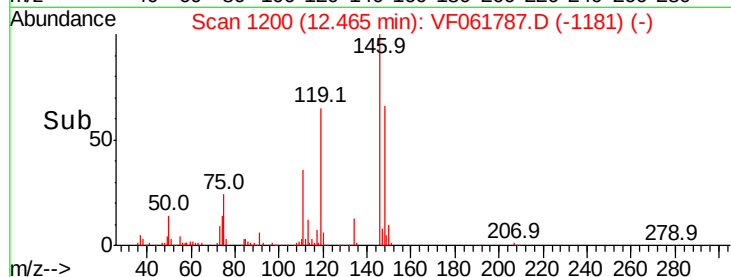
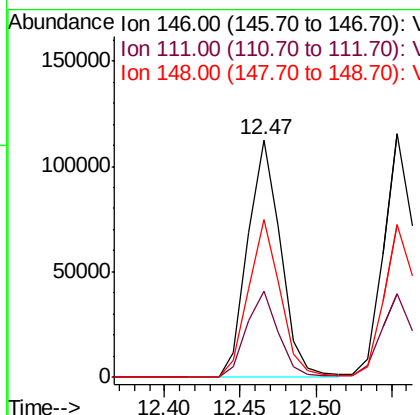
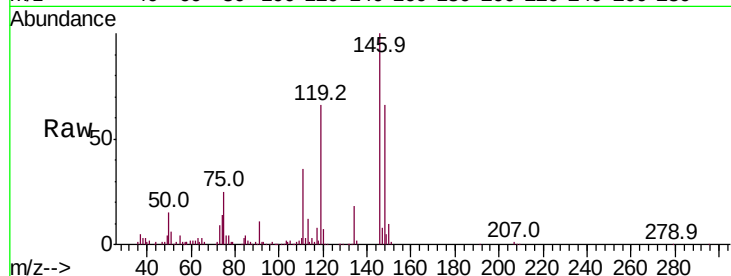
Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion:146 Resp: 171929

Ion	Ratio	Lower	Upper
146	100		
111	36.2	17.5	52.6
148	66.2	31.4	94.3



#88

1,4-Dichlorobenzene

Concen: 22.053 ug/l

RT: 12.55 min Scan# 1209

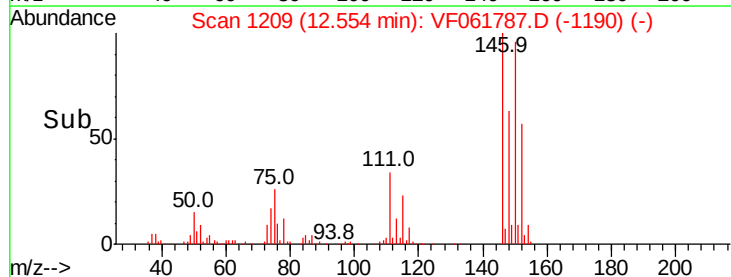
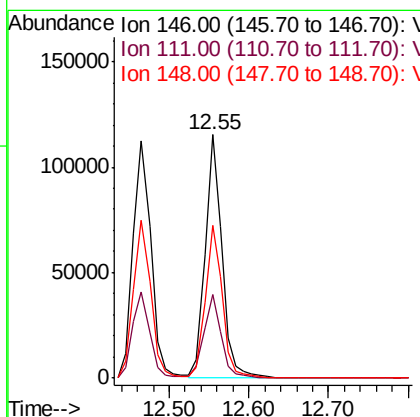
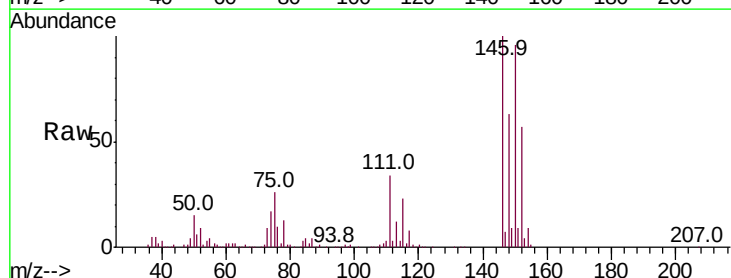
Delta R.T. -0.02 min

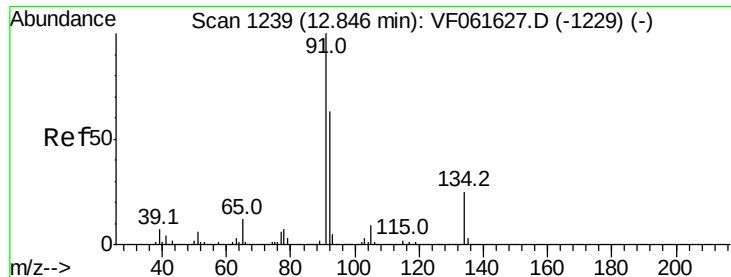
Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion:146 Resp: 169937

Ion	Ratio	Lower	Upper
146	100		
111	34.5	18.4	55.4
148	63.0	32.2	96.6

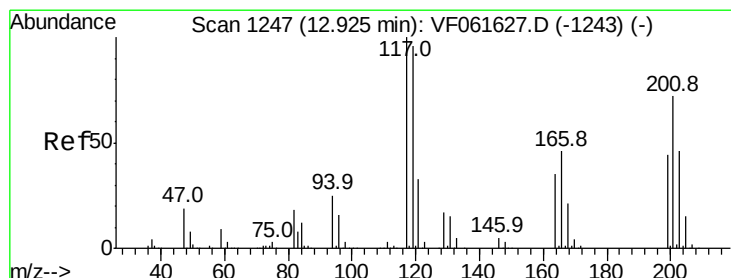
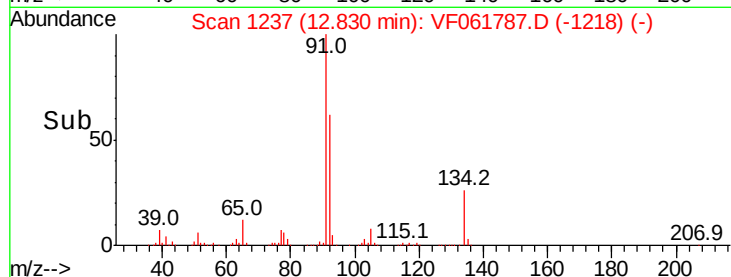
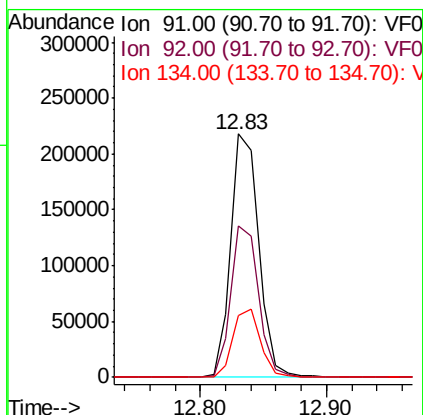
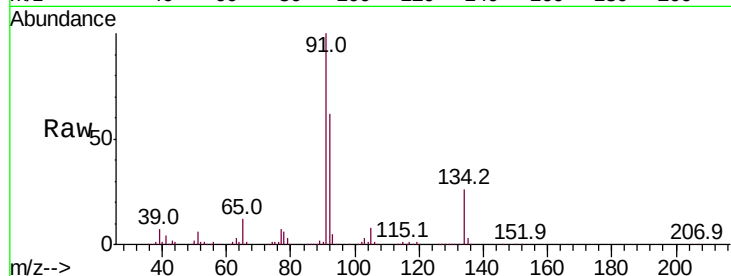




#89
n-Butylbenzene
Concen: 22.102 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

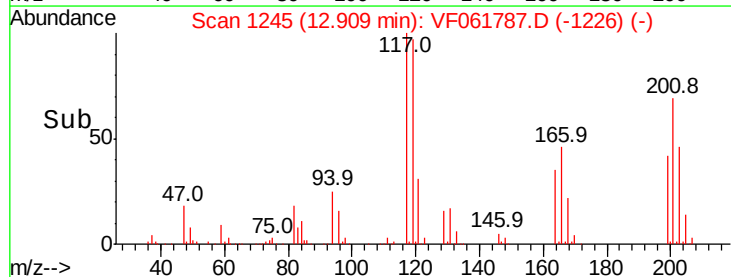
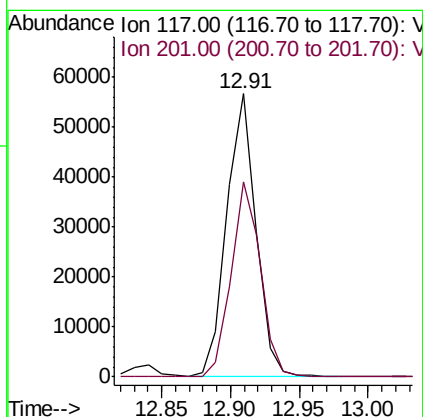
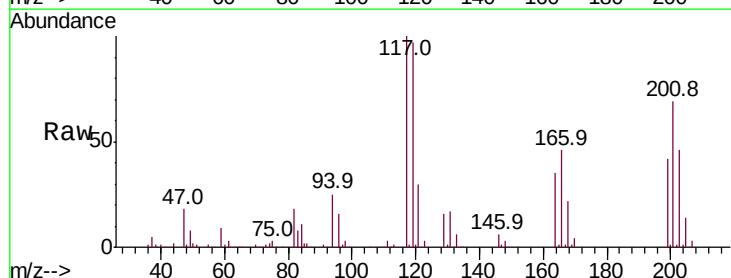
Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

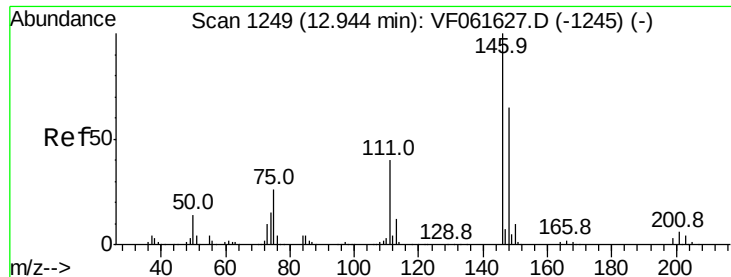
Tot Ion: 91 Resp: 333583
Ion Ratio Lower Upper
91 100
92 62.4 31.4 94.3
134 25.7 12.3 36.9



#90
Hexachloroethane
Concen: 22.671 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion: 117 Resp: 84276
Ion Ratio Lower Upper
117 100
201 69.0 36.2 108.6

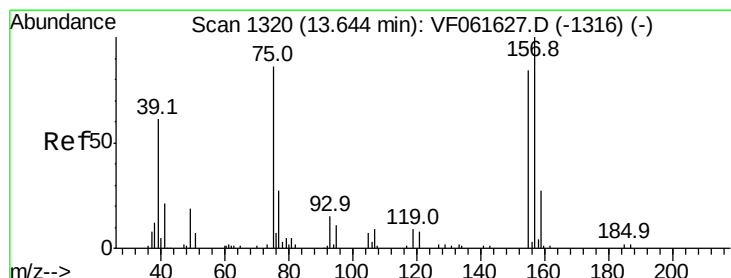
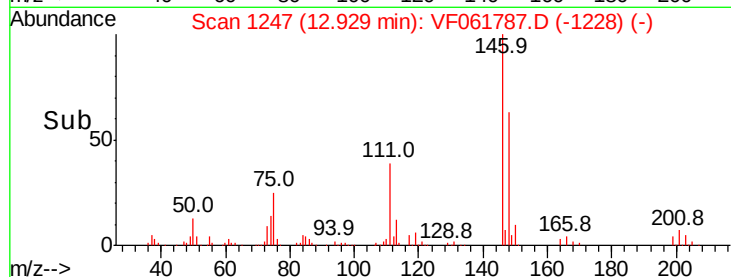
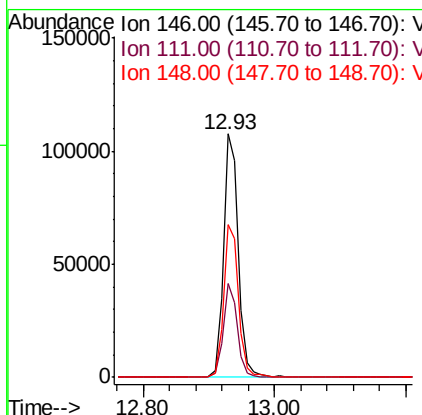
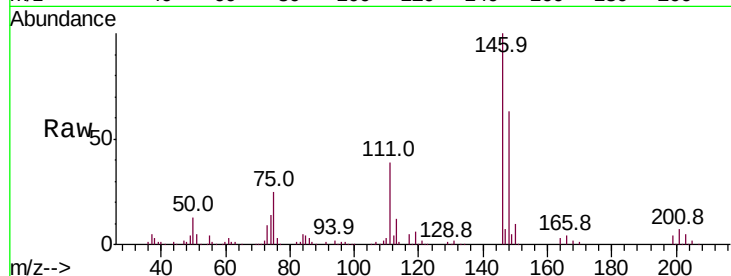




#91
 1,2-Dichlorobenzene
 Concen: 22.138 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

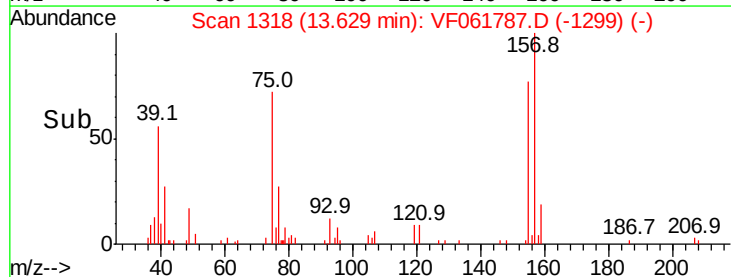
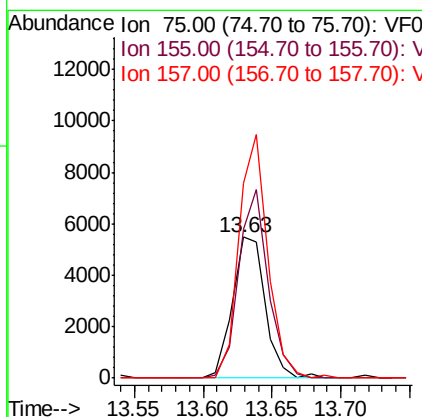
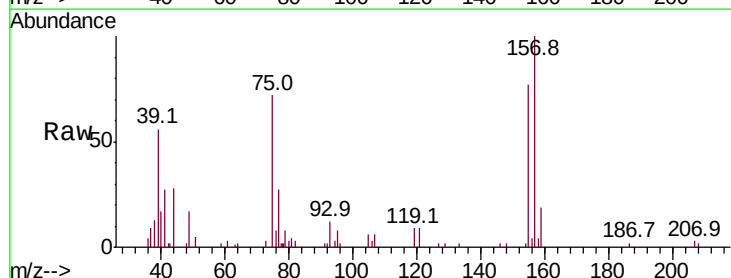
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

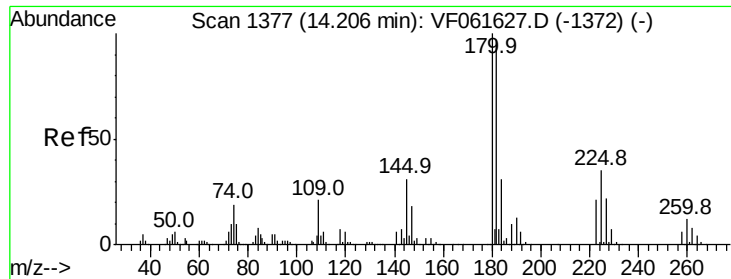
Tot Ion:146 Resp: 168713
 Ion Ratio Lower Upper
 146 100
 111 38.7 20.2 60.5
 148 62.7 32.3 96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.261 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion: 75 Resp: 9102
 Ion Ratio Lower Upper
 75 100
 155 106.0 48.9 146.8
 157 138.3 58.3 174.8

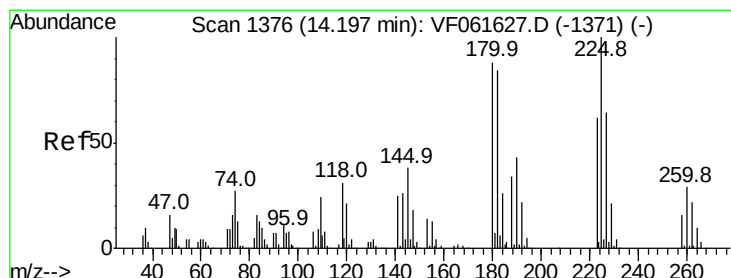
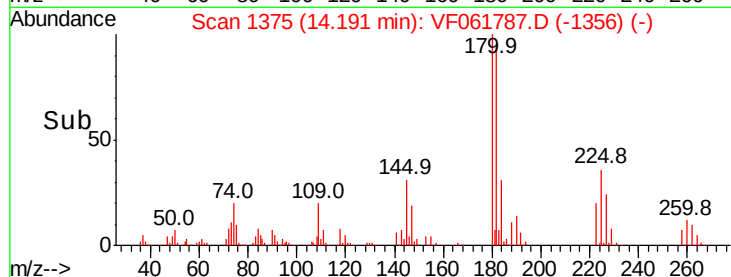
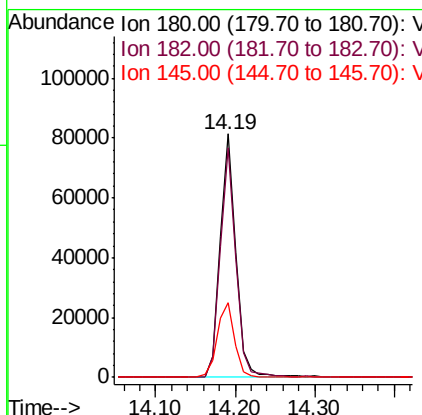
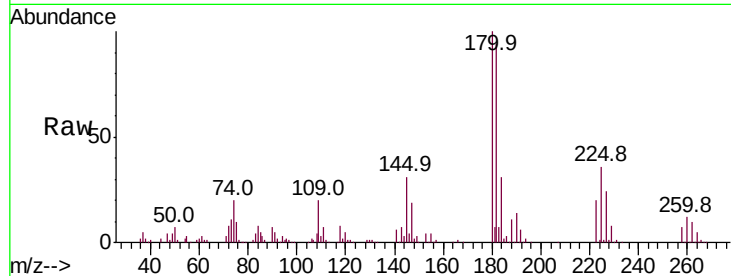




#93
 1,2,4-Trichlorobenzene
 Concen: 21.089 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

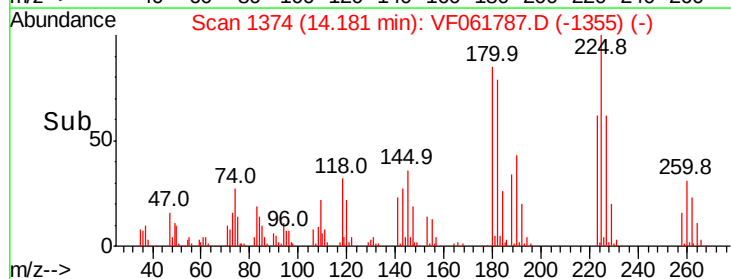
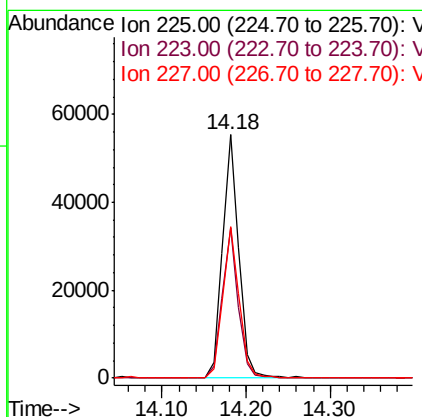
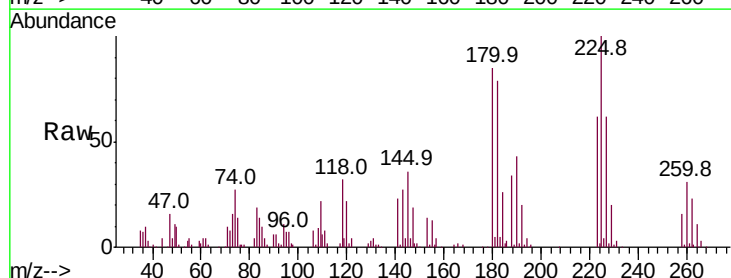
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

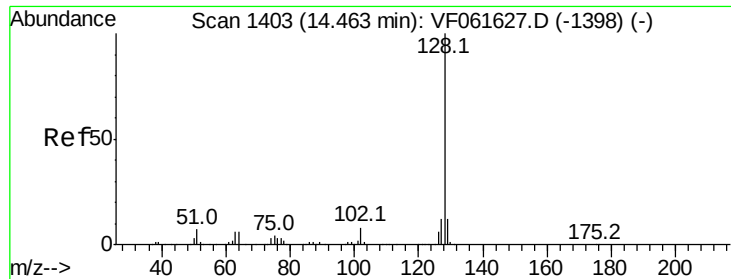
Tot Ion:180 Resp: 115203
 Ion Ratio Lower Upper
 180 100
 182 94.3 48.6 145.9
 145 30.7 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: 22.108 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion:225 Resp: 74584
 Ion Ratio Lower Upper
 225 100
 223 61.6 30.9 92.7
 227 62.3 32.1 96.3





#95

Naphthalene

Concen: 20.919 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

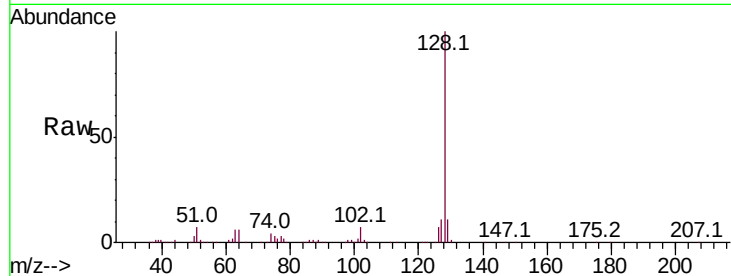
Tot Ion:128 Resp: 199938

Ion Ratio Lower Upper

128 100

127 11.2 9.8 14.6

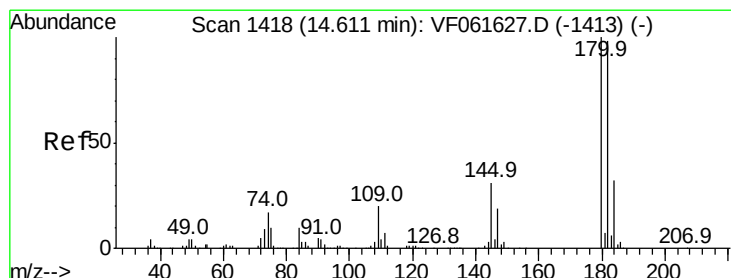
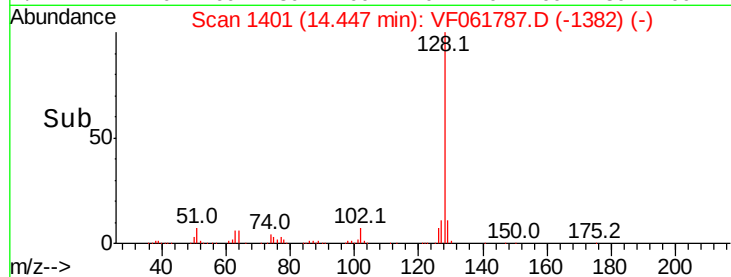
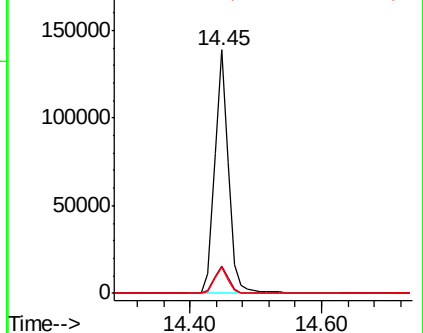
129 10.6 9.4 14.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 21.699 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

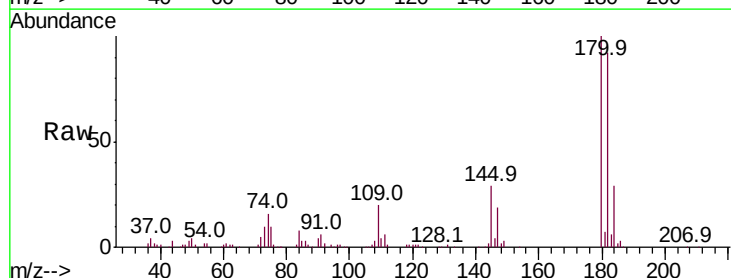
Tgt Ion:180 Resp: 108793

Ion Ratio Lower Upper

180 100

182 91.5 49.0 147.2

145 29.5 15.4 46.1



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

