

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF032619\
 Data File : VF062145.D
 Acq On : 26 Mar 2019 14:51
 Operator : VA/AP
 Sample : VF0326SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0326SBSD01

Quant Time: Mar 27 05:15:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	244874	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.58	114	375533	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.76	117	328474	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.54	152	172447	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	87287	47.92	ug/l	-0.05
Spiked Amount			Recovery	=	95.84%	
35) Dibromofluoromethane	4.10	113	124818	49.13	ug/l	-0.05
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	7.53	98	360070	47.48	ug/l	-0.06
Spiked Amount			Recovery	=	94.96%	
62) 4-Bromofluorobenzene	11.40	95	144111	49.23	ug/l	-0.04
Spiked Amount			Recovery	=	98.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	71905	22.921	ug/l	95
3) Chloromethane	1.09	50	77383	23.575	ug/l #	88
4) Vinyl Chloride	1.14	62	73535	24.220	ug/l	99
5) Bromomethane	1.31	94	47157	21.607	ug/l	91
6) Chloroethane	1.38	64	36821	24.091	ug/l	99
7) Trichlorofluoromethane	1.48	101	92440	25.209	ug/l	99
8) Diethyl Ether	1.62	74	17672	21.098	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	1.82	101	63740	25.479	ug/l	90
10) Methyl Iodide	1.90	142	84961	17.872	ug/l	98
11) Tert butyl alcohol	2.56	59	10299	102.768	ug/l #	72
12) 1,1-Dichloroethene	1.79	96	57415	24.324	ug/l	93
13) Acrolein	1.99	56	12358	102.547	ug/l	86
14) Allyl chloride	2.09	41	65936	26.164	ug/l	98
15) Acrylonitrile	2.93	53	39023	110.732	ug/l	90
16) Acetone	2.23	43	43991	114.757	ug/l	95
17) Carbon Disulfide	1.81	76	173969	24.170	ug/l	95
18) Methyl Acetate	2.33	43	21388	23.390	ug/l	95
19) Methyl tert-butyl Ether	2.42	73	84057	22.532	ug/l	94
20) Methylene Chloride	2.18	84	29713	10.344	ug/l	99
21) trans-1,2-Dichloroethene	2.30	96	57769	25.437	ug/l	99
22) Diisopropyl ether	2.79	45	154444	23.375	ug/l	94
23) Vinyl Acetate	3.17	43	304104	112.414	ug/l	99
24) 1,1-Dichloroethane	2.86	63	91656	23.132	ug/l	99
25) 2-Butanone	4.32	43	86617	108.234	ug/l	100
26) 2,2-Dichloropropane	3.59	77	43234	26.912	ug/l	95
27) cis-1,2-Dichloroethene	3.46	96	68860	22.881	ug/l	91
28) Bromochloromethane	3.70	49	38631	23.863	ug/l	99
29) Tetrahydrofuran	4.06	42	37950	109.068	ug/l	93
30) Chloroform	3.84	83	99638	23.795	ug/l	99
31) Cyclohexane	3.68	56	94667	22.876	ug/l	92
32) 1,1,1-Trichloroethane	4.08	97	62663	24.601	ug/l	97
36) 1,1-Dichloropropene	4.26	75	82703	23.121	ug/l	91
37) Ethyl Acetate	4.09	43	33391	21.360	ug/l #	67
38) Carbon Tetrachloride	3.98	117	60355	24.757	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	99034	23.855	ug/l	96
40) Benzene	4.61	78	218394	22.775	ug/l	96
41) Methacrylonitrile	4.73	41	19105	23.098	ug/l	96
42) 1,2-Dichloroethane	4.93	62	52540	23.170	ug/l	94
43) Isopropyl Acetate	6.94	43	42752	22.582	ug/l #	91
44) Trichloroethene	5.49	130	68726	23.442	ug/l	97
45) 1,2-Dichloropropane	6.22	63	52094	22.777	ug/l	97
46) Dibromomethane	6.07	93	31127	22.259	ug/l	89
47) Bromodichloromethane	6.37	83	71458	23.070	ug/l	95
48) Methyl methacrylate	6.70	41	24748	22.959	ug/l	90
49) 1,4-Dioxane	6.69	88	3913	413.712	ug/l #	77
51) 4-Methyl-2-Pentanone	8.24	43	150941	119.122	ug/l	96
52) Toluene	7.61	92	125591	22.612	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	56786	23.354	ug/l	95
54) cis-1,3-Dichloropropene	7.28	75	79750	22.922	ug/l	96
55) 1,1,2-Trichloroethane	8.48	97	36237	22.970	ug/l	98
56) Ethyl methacrylate	8.61	69	41005	21.794	ug/l	92
57) 1,3-Dichloropropane	8.83	76	59235	22.623	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.27	63	28321	99.198	ug/l	100
59) 2-Hexanone	9.47	43	102138	109.983	ug/l	100
60) Dibromochloromethane	8.69	129	51193	23.342	ug/l	100
61) 1,2-Dibromoethane	8.97	107	39324	23.364	ug/l	95
64) Tetrachloroethene	8.13	164	58757	23.153	ug/l	94
65) Chlorobenzene	9.78	112	141579	23.036	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.91	131	56382	22.838	ug/l	93
67) Ethyl Benzene	9.88	91	245406	22.960	ug/l	98
68) m/p-Xylenes	10.11	106	193190	48.359	ug/l	96
69) o-Xylene	10.70	106	95867	22.913	ug/l	88
70) Styrene	10.77	104	145349	22.928	ug/l	99
71) Bromoform	10.76	173	27682	21.922	ug/l	97
73) Isopropylbenzene	11.11	105	288957	23.813	ug/l	98
74) N-amyl acetate	11.36	43	66186	22.891	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.68	83	43954	21.096	ug/l	98
76) 1,2,3-Trichloropropane	11.86	75	17689	12.064	ug/l	88
77) Bromobenzene	11.48	156	66727	22.508	ug/l	98
78) n-propylbenzene	11.58	91	338455	24.020	ug/l	99
79) 2-Chlorotoluene	11.70	91	185359	23.668	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	231030	23.147	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	17689	29.606	ug/l #	92
82) 4-Chlorotoluene	11.89	91	183906	22.902	ug/l	94
83) tert-Butylbenzene	12.12	119	249466	23.876	ug/l	97
84) 1,2,4-Trimethylbenzene	12.19	105	227888	23.290	ug/l	99
85) sec-Butylbenzene	12.29	105	323349	23.922	ug/l	100
86) p-Isopropyltoluene	12.45	119	281686	24.054	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	132505	24.057	ug/l	96
88) 1,4-Dichlorobenzene	12.55	146	124571	23.178	ug/l	97
89) n-Butylbenzene	12.84	91	271403	24.292	ug/l	98
90) Hexachloroethane	12.90	117	65741	23.576	ug/l	90
91) 1,2-Dichlorobenzene	12.93	146	121523	23.497	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7067	22.386	ug/l	89

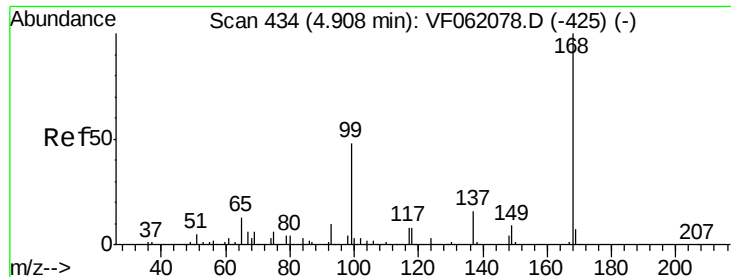
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032619\
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Operator : VA/AP
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	85062	23.598	ug/l	97
94) Hexachlorobutadiene	14.18	225	55915	23.330	ug/l	96
95) Naphthalene	14.44	128	142875	22.619	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	76477	22.666	ug/l	97

(#) = 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. -0.06 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

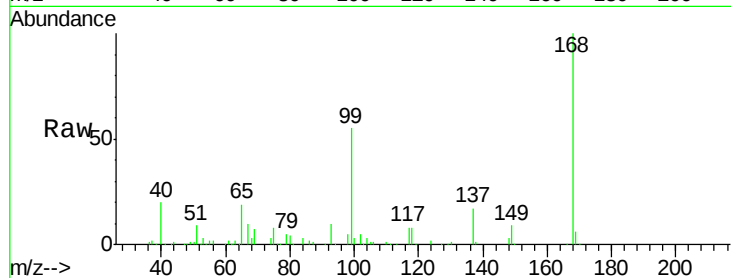
VF0326SBS01

Tot Ion:168 Resp: 244874

Ion Ratio Lower Upper

168 100

99 54.7 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

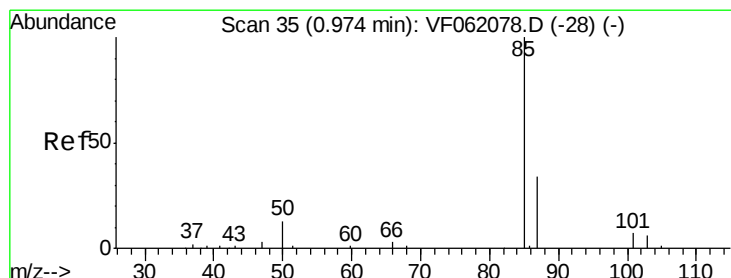
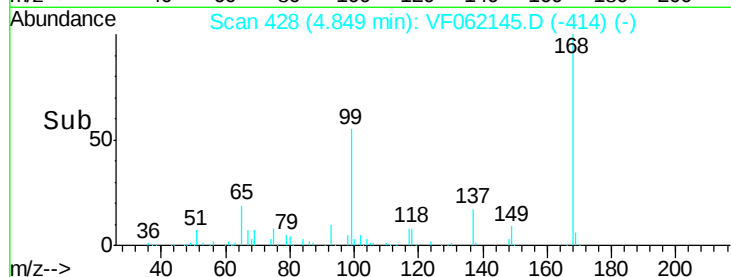
40000

20000

0

4.80 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 22.921 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF062145.D

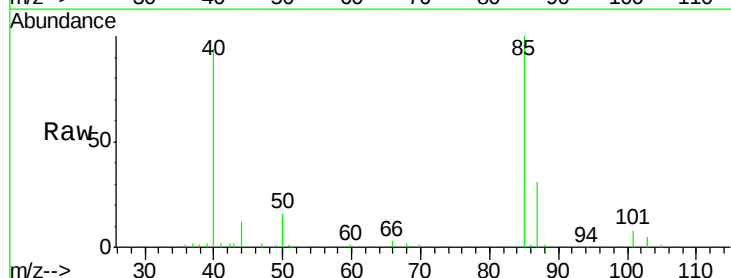
Acq: 26 Mar 2019 14:51

Tgt Ion: 85 Resp: 71905

Ion Ratio Lower Upper

85 100

87 30.9 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

15000

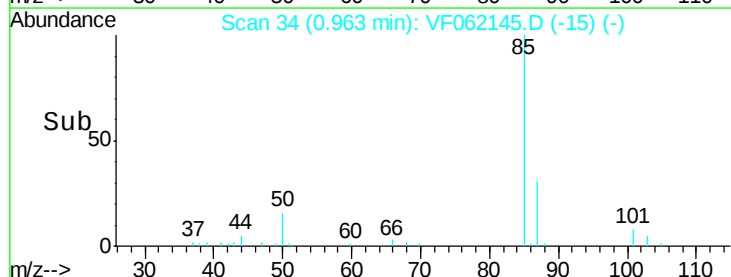
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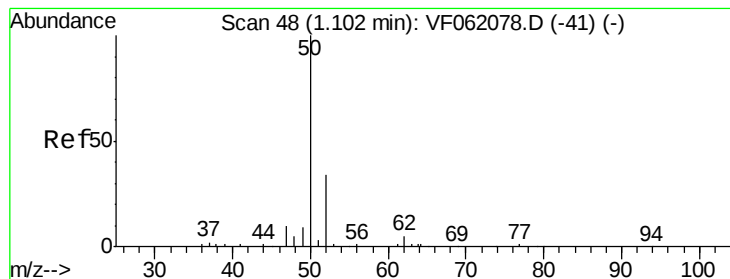
5000

0

0.80 0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 23.575 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

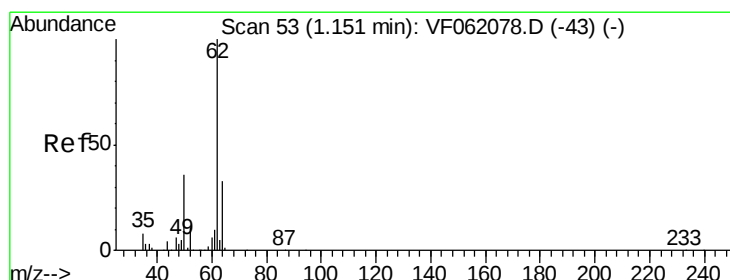
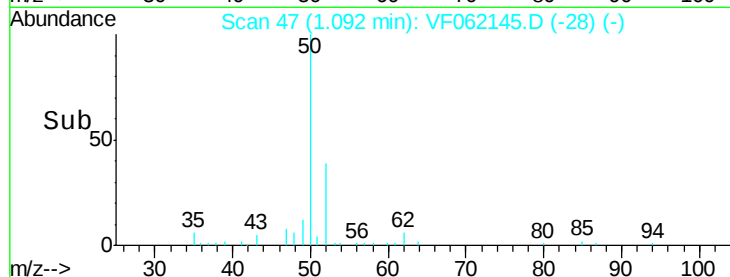
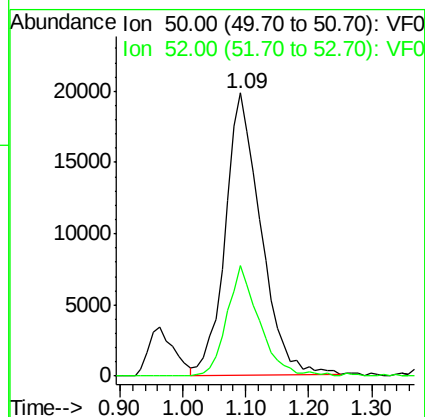
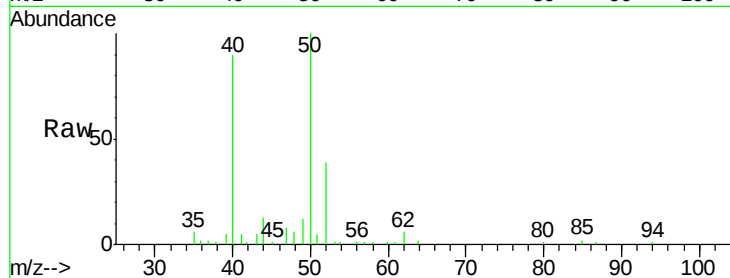
VF0326SBS01

Tot Ion: 50 Resp: 77383

Ion Ratio Lower Upper

50 100

52 39.2 26.1 39.1#



#4

Vinyl Chloride

Concen: 24.220 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062145.D

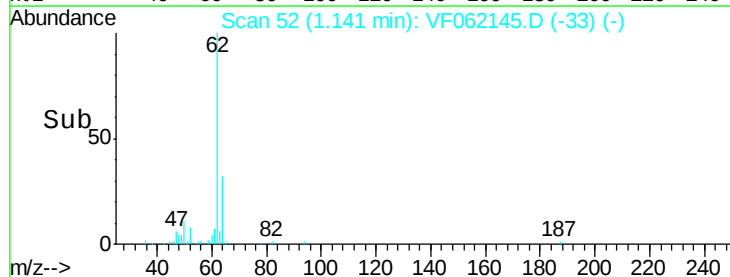
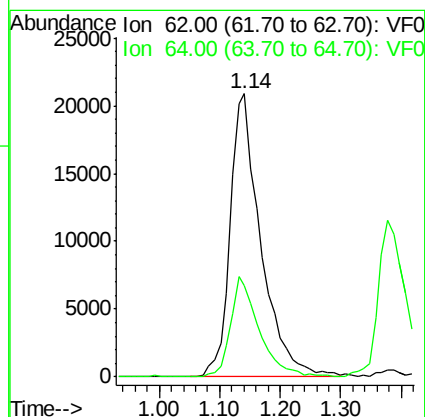
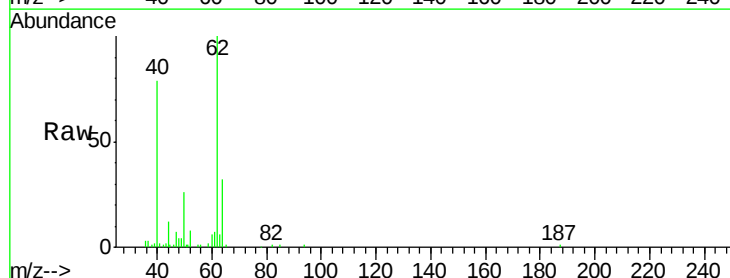
Acq: 26 Mar 2019 14:51

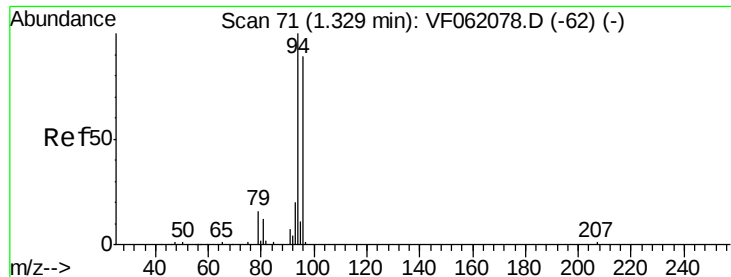
Tgt Ion: 62 Resp: 73535

Ion Ratio Lower Upper

62 100

64 32.3 26.2 39.2





#5

Bromomethane

Concen: 21.607 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

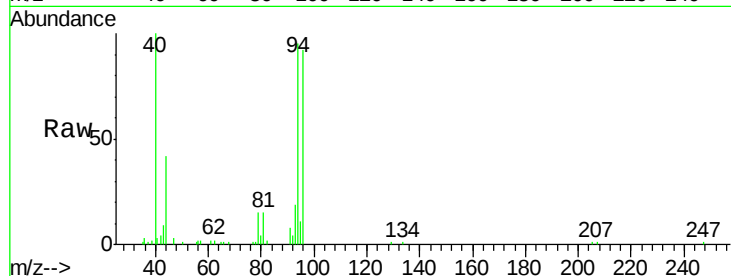
VF0326SBSD01

Tot Ion: 94 Resp: 47157

Ion Ratio Lower Upper

94 100

96 96.9 70.9 106.3



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

12000

10000

8000

6000

4000

2000

0

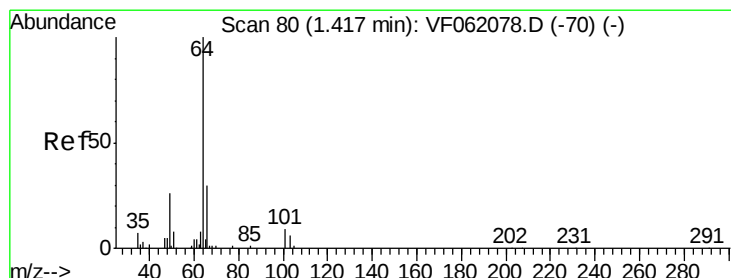
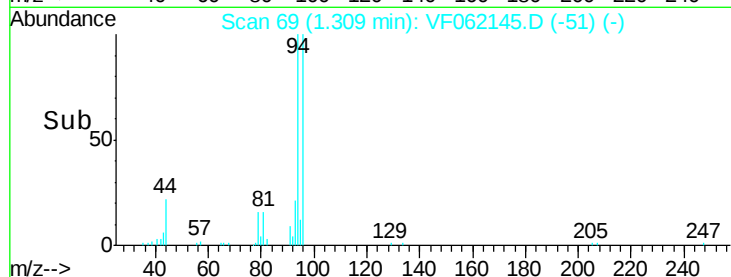
1.20

1.30

1.40

1.50

Time-->



#6

Chloroethane

Concen: 24.091 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.04 min

Lab File: VF062145.D

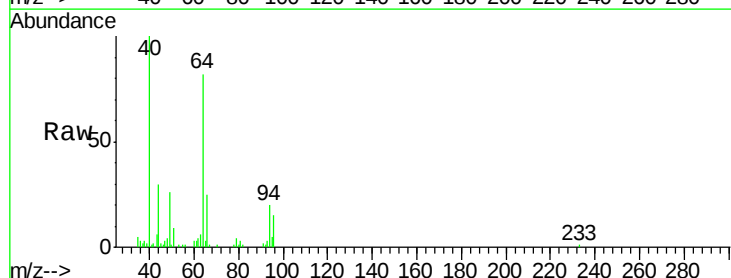
Acq: 26 Mar 2019 14:51

Tgt Ion: 64 Resp: 36821

Ion Ratio Lower Upper

64 100

66 30.3 24.5 36.7



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

10000

5000

0

1.20

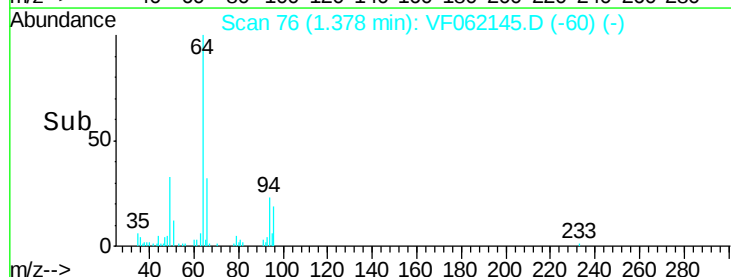
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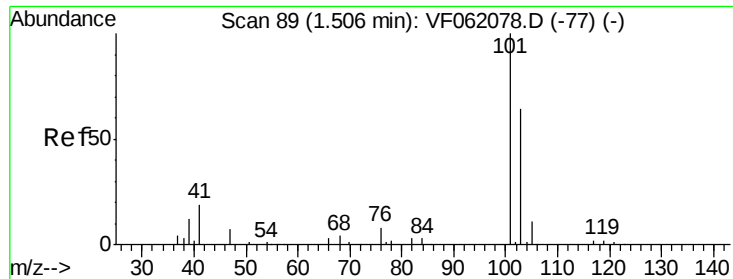
1.40

1.50

1.60

Time-->





#7

Trichlorofluoromethane

Concen: 25.209 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

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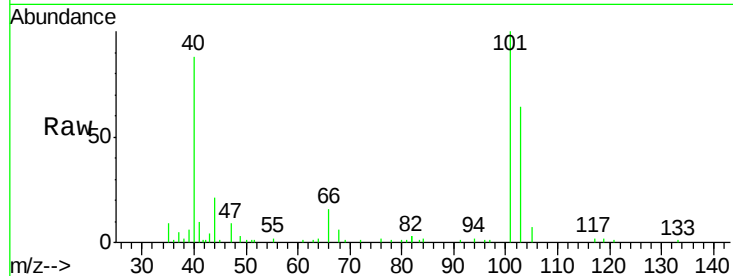
VF0326SBSD01

Tot Ion:101 Resp: 92440

Ion Ratio Lower Upper

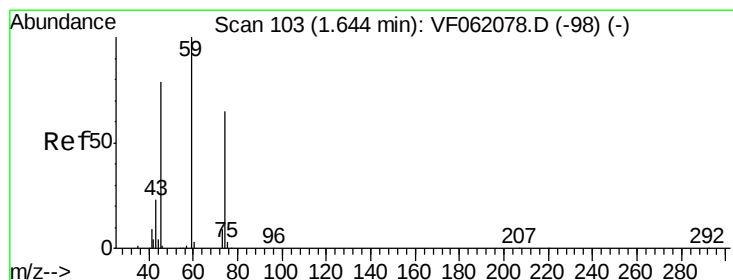
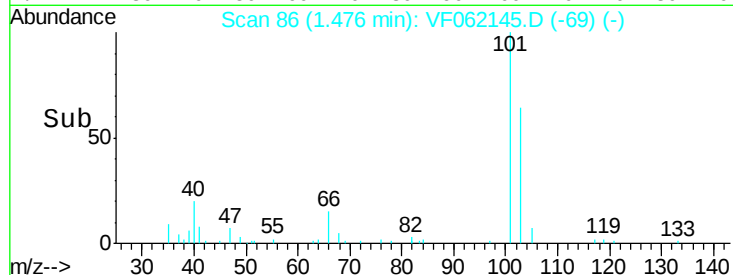
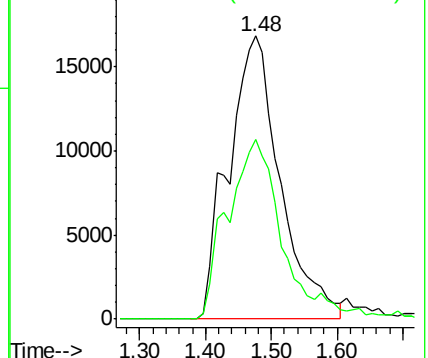
101 100

103 63.6 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 21.098 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF062145.D

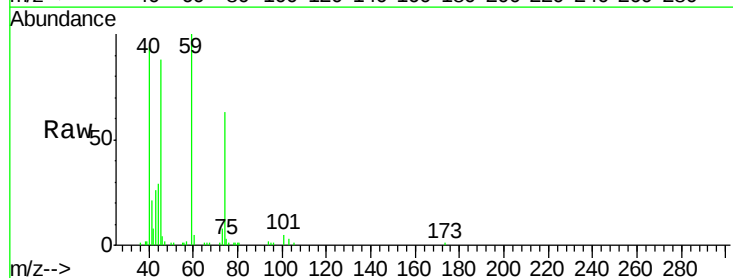
Acq: 26 Mar 2019 14:51

Tgt Ion: 74 Resp: 17672

Ion Ratio Lower Upper

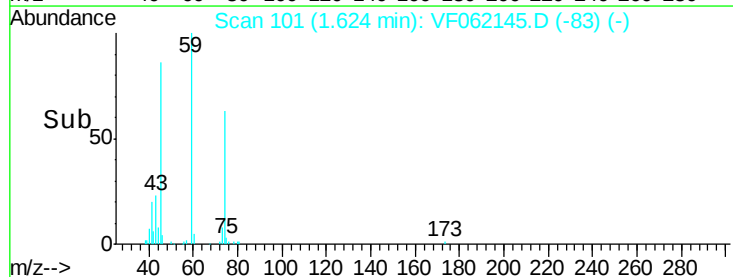
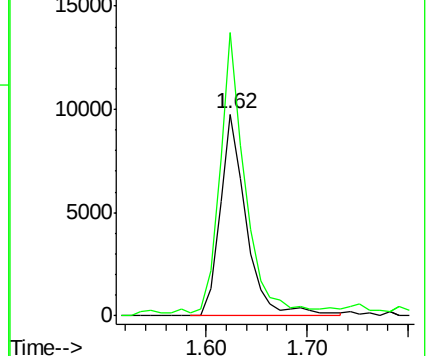
74 100

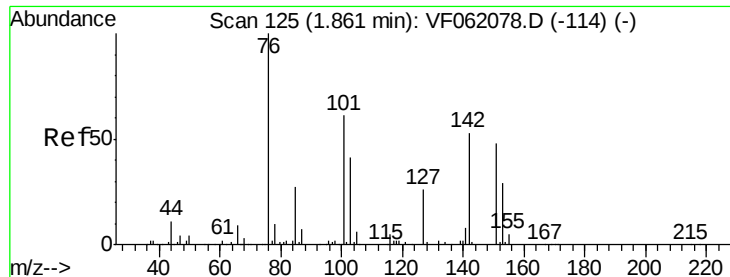
45 140.3 61.4 184.2



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: 25.479 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.04 min

Lab File: VF062145.D

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VF0326SBS01

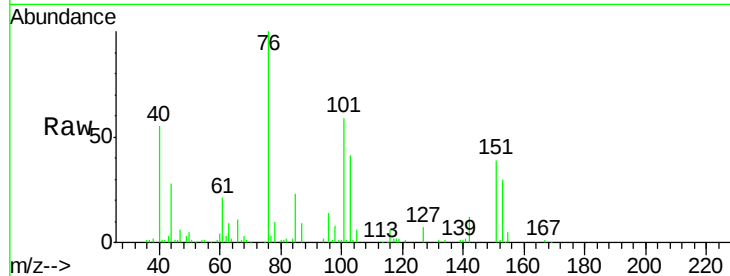
Tot Ion:101 Resp: 63740

Ion Ratio Lower Upper

101 100

85 39.3 34.6 52.0

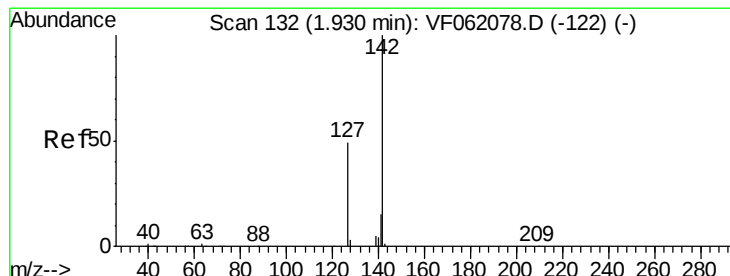
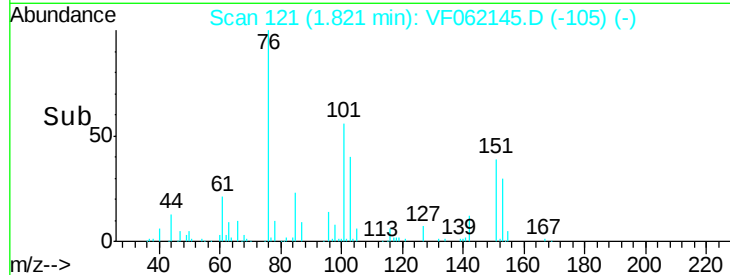
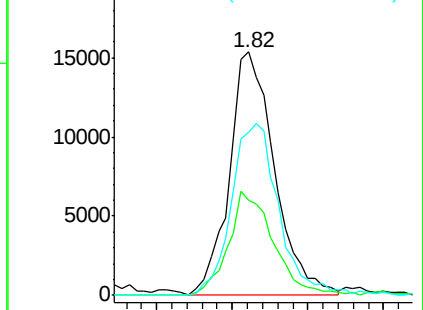
151 67.1 61.7 92.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 17.872 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

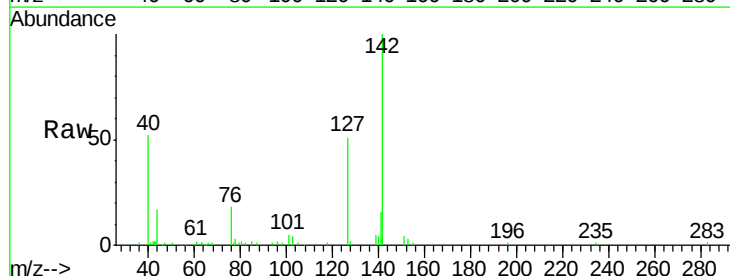
Tgt Ion:142 Resp: 84961

Ion Ratio Lower Upper

142 100

127 50.6 39.1 58.7

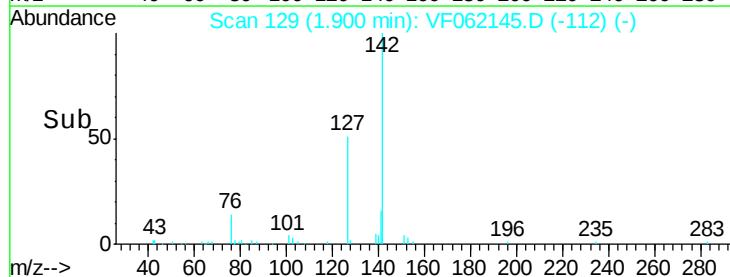
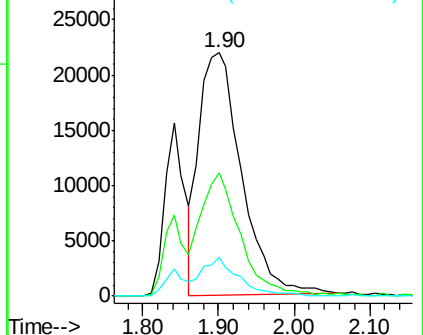
141 15.8 12.2 18.4

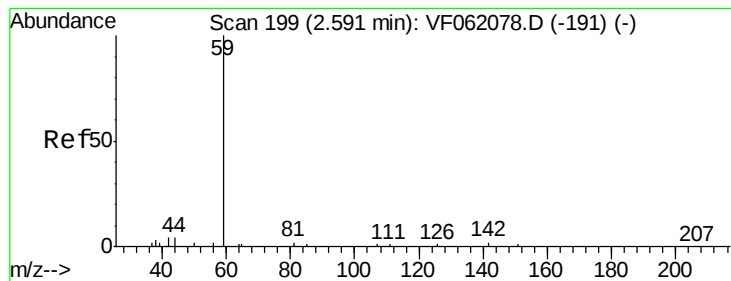


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



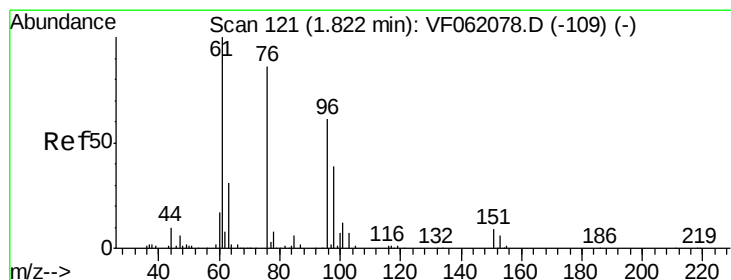
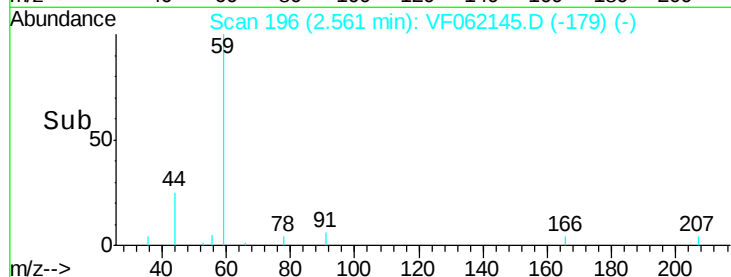
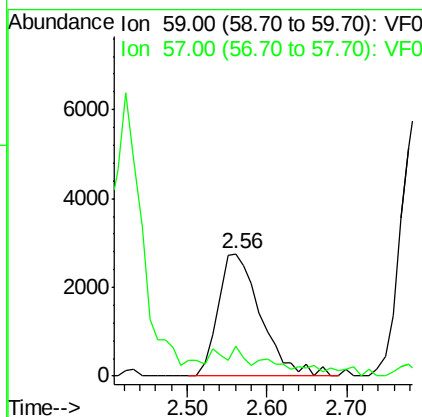
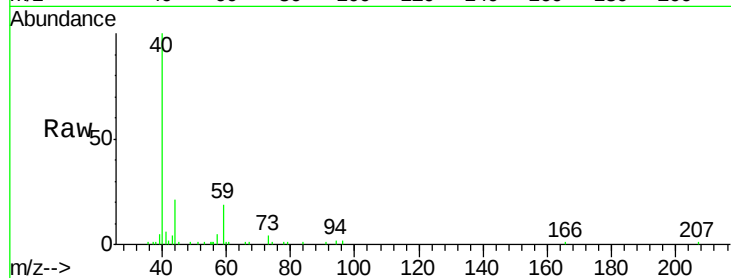


#11

Tert butyl alcohol
Concen: 102.768 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.03 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0326SBS01

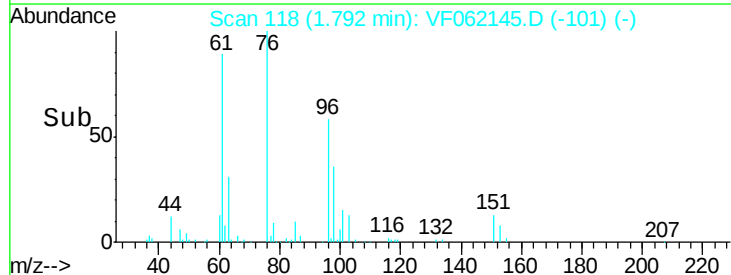
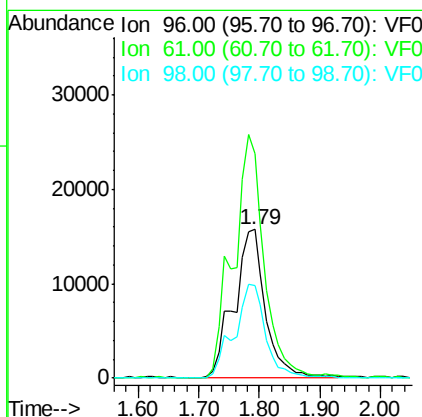
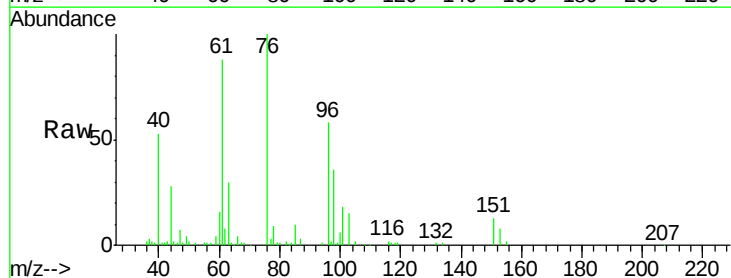
Tot Ion: 59 Resp: 10299
Ion Ratio Lower Upper
59 100
57 25.0 11.0 16.4#

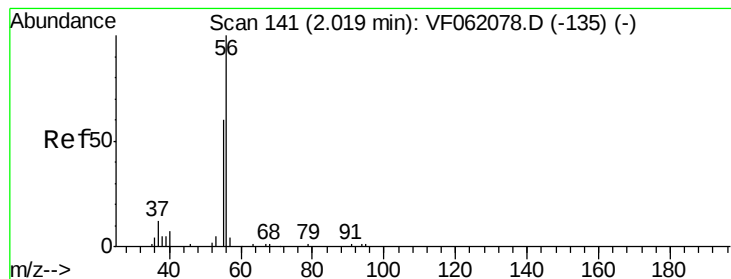


#12

1,1-Dichloroethene
Concen: 24.324 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.03 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Tgt Ion: 96 Resp: 57415
Ion Ratio Lower Upper
96 100
61 151.2 131.0 196.6
98 62.3 51.5 77.3





#13

Acrolein

Concen: 102.547 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

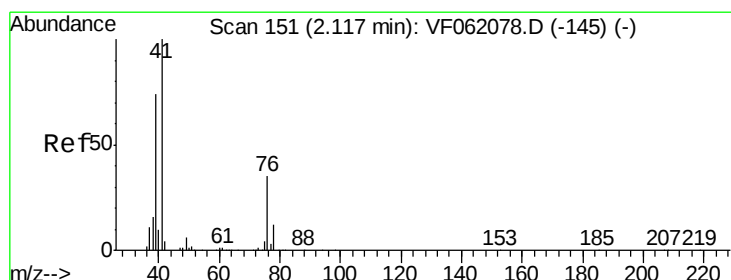
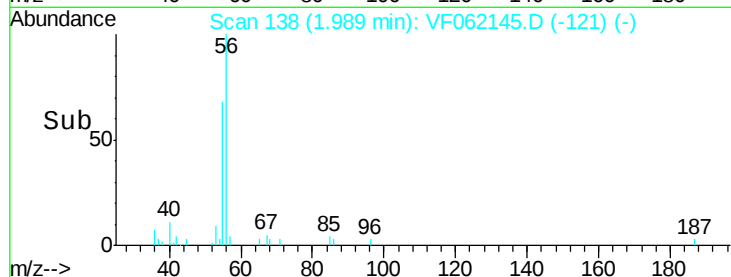
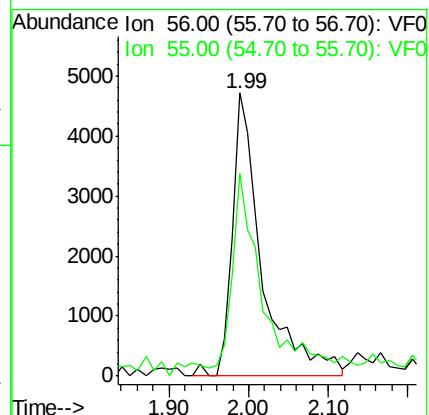
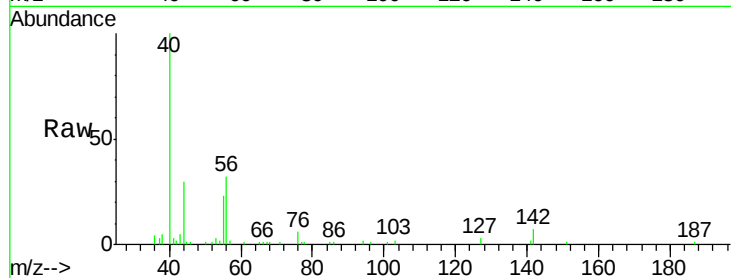
VF0326SBSD01

Tot Ion: 56 Resp: 12358

Ion Ratio Lower Upper

56 100

55 71.6 49.0 73.4



#14

Allyl chloride

Concen: 26.164 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

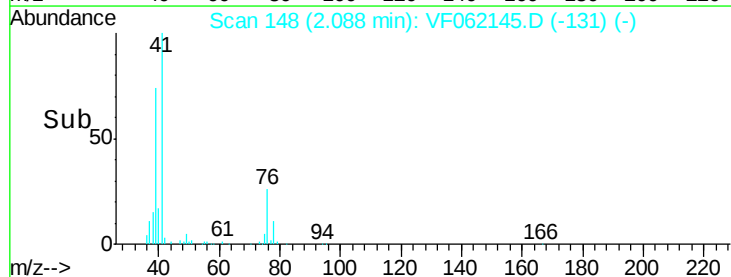
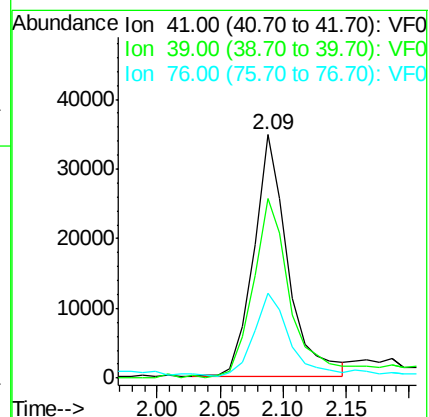
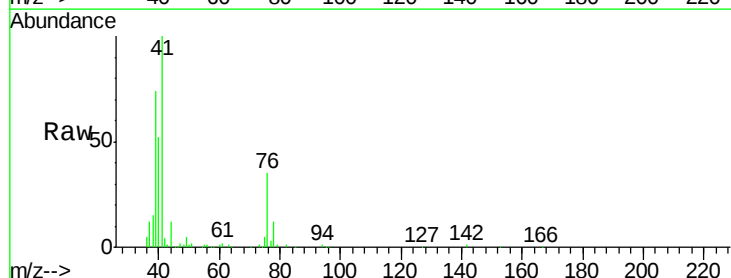
Tgt Ion: 41 Resp: 65936

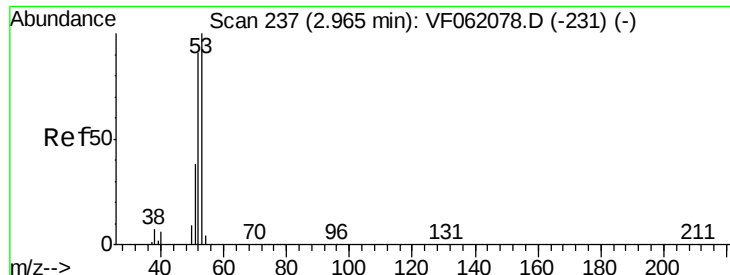
Ion Ratio Lower Upper

41 100

39 73.9 59.8 89.8

76 34.7 30.0 45.0





#15

Acrylonitrile

Concen: 110.732 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

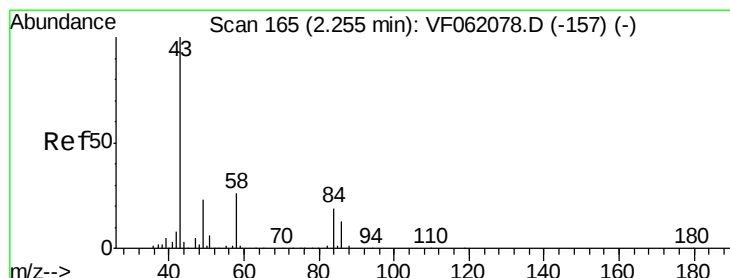
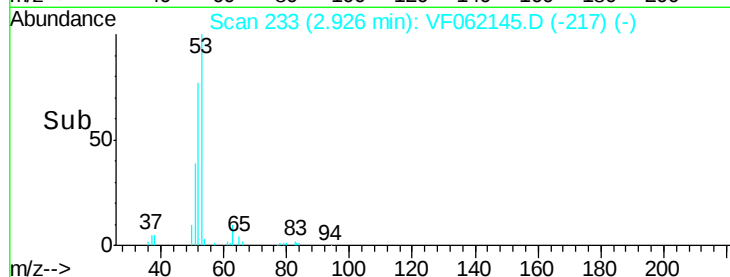
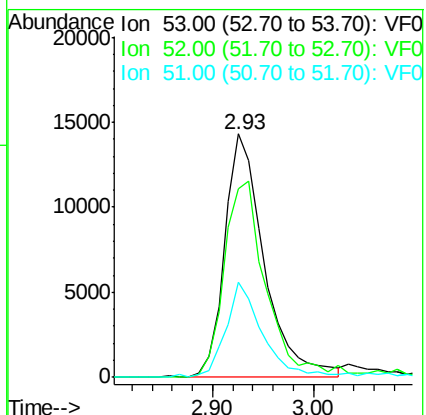
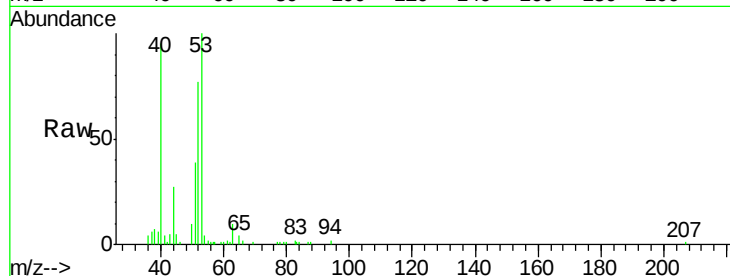
Tot Ion: 53 Resp: 39023

Ion Ratio Lower Upper

53 100

52 77.3 72.3 108.5

51 39.2 30.4 45.6



#16

Acetone

Concen: 114.757 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF062145.D

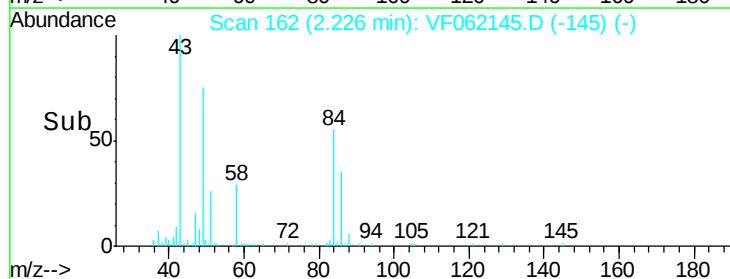
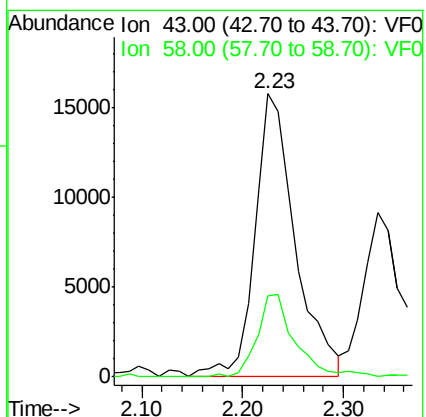
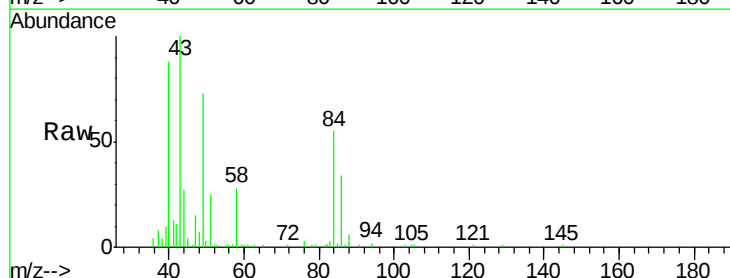
Acq: 26 Mar 2019 14:51

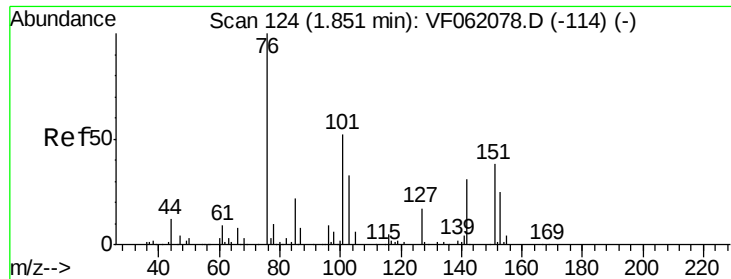
Tgt Ion: 43 Resp: 43991

Ion Ratio Lower Upper

43 100

58 28.5 20.8 31.2

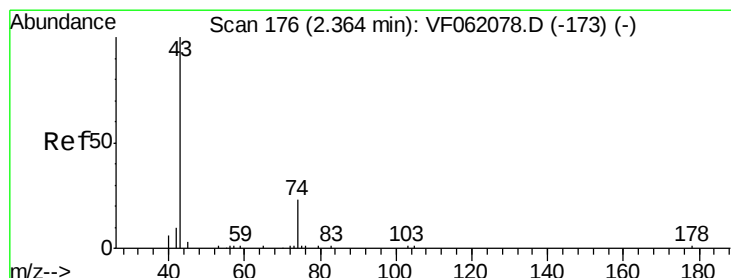
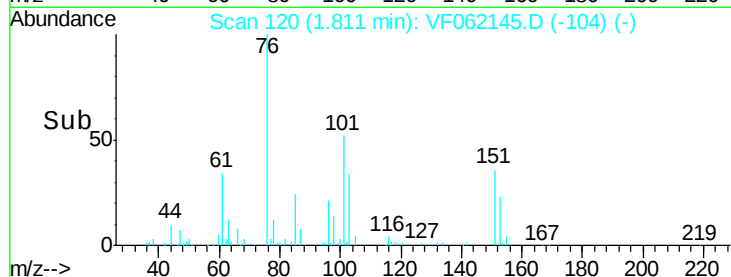
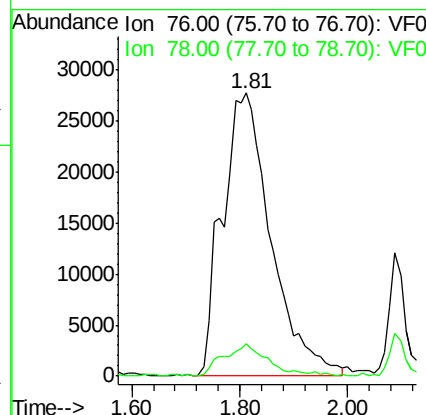
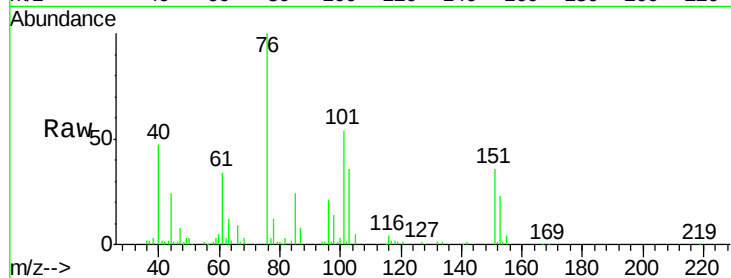




#17
Carbon Disulfide
Concen: 24.170 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.04 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

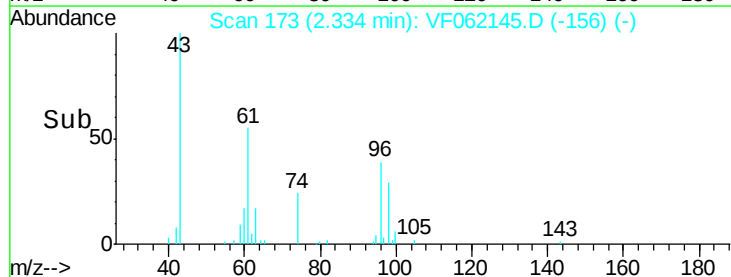
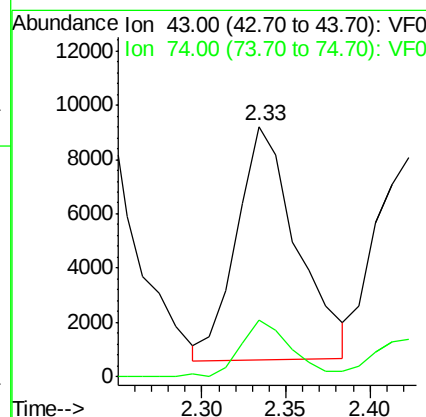
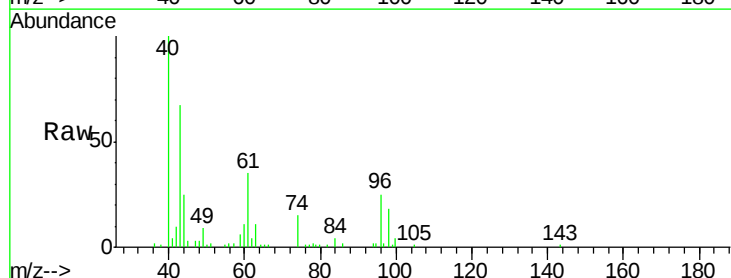
Instrument :
MSVOA_F
ClientSampleId :
VF0326SBSD01

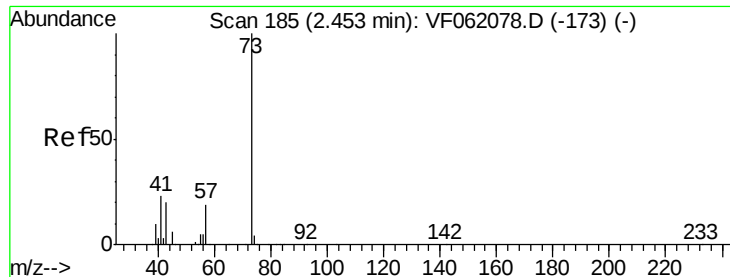
Tot Ion: 76 Resp: 173969
Ion Ratio Lower Upper
76 100
78 11.7 7.9 11.9



#18
Methyl Acetate
Concen: 23.390 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.03 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Tgt Ion: 43 Resp: 21388
Ion Ratio Lower Upper
43 100
74 22.6 16.3 24.5

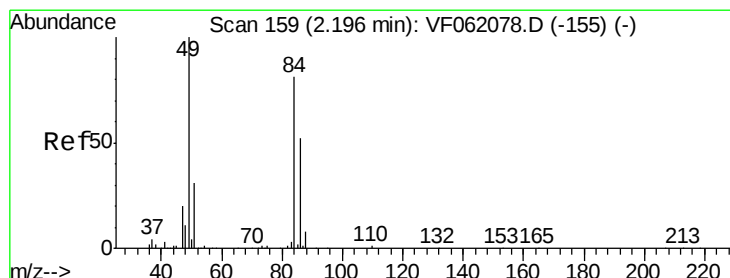
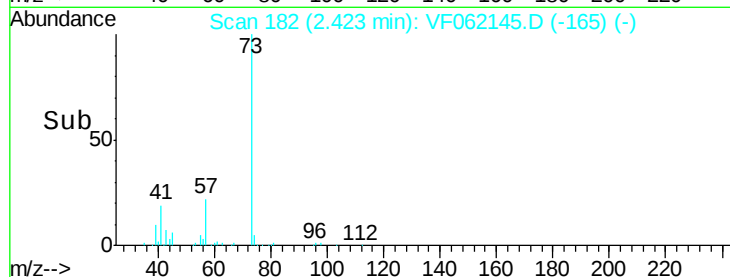
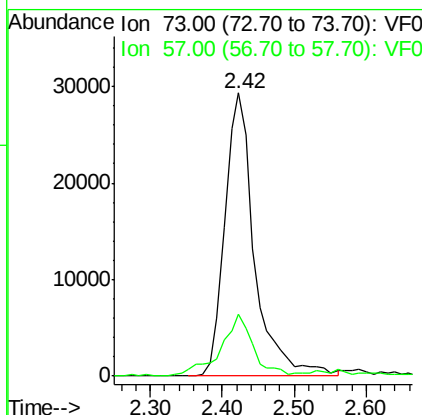
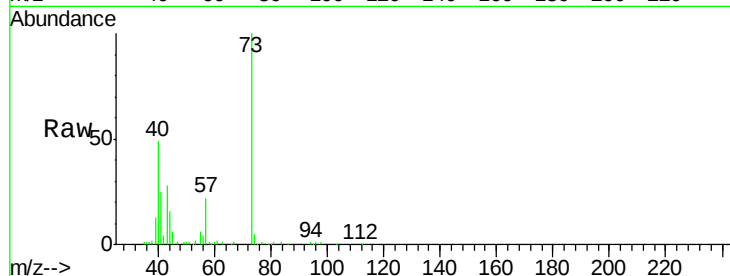




#19
Methyl tert-butyl Ether
Concen: 22.532 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.03 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

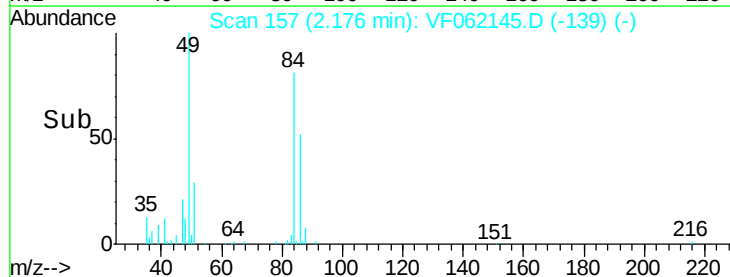
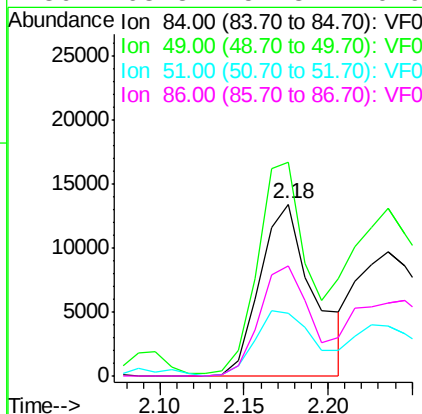
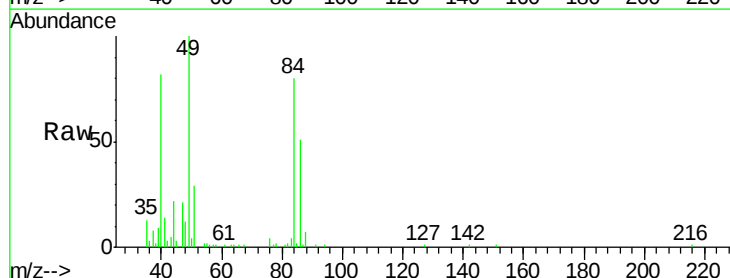
Instrument :
MSVOA_F
ClientSampleId :
VF0326SBS01

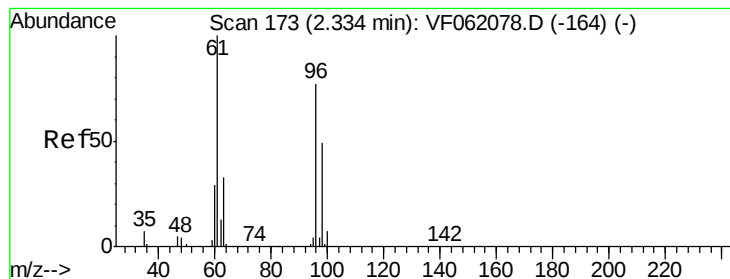
Tot Ion: 73 Resp: 84057
Ion Ratio Lower Upper
73 100
57 21.7 15.1 22.7



#20
Methylene Chloride
Concen: 10.344 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.02 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Tgt Ion: 84 Resp: 29713
Ion Ratio Lower Upper
84 100
49 124.5 100.4 150.6
51 36.5 31.0 46.6
86 63.8 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 25.437 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

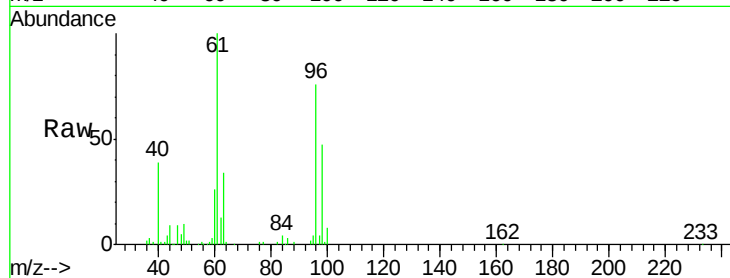
Tot Ion: 96 Resp: 57769

Ion Ratio Lower Upper

96 100

61 131.3 104.5 156.7

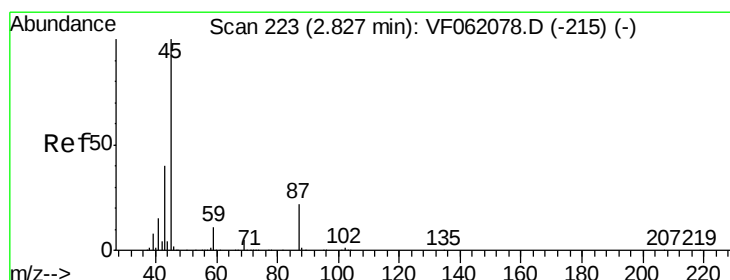
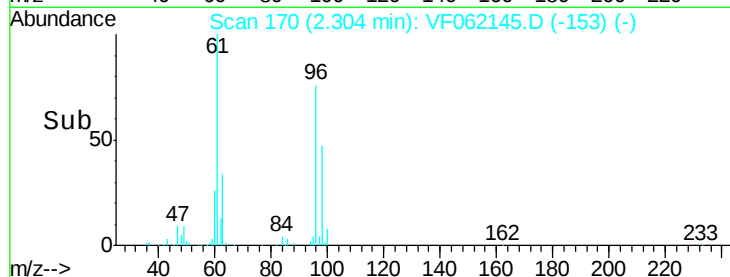
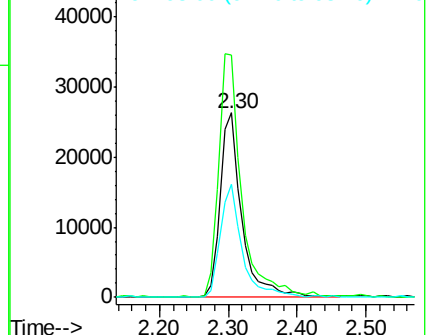
98 61.5 51.2 76.8



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: 23.375 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Tgt Ion: 45 Resp: 154444

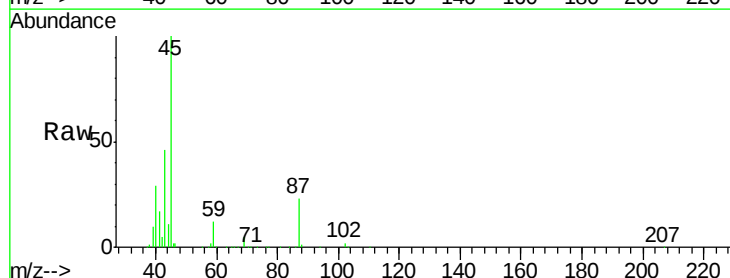
Ion Ratio Lower Upper

45 100

43 45.5 32.5 48.7

87 22.7 17.4 26.2

59 12.3 8.6 12.8

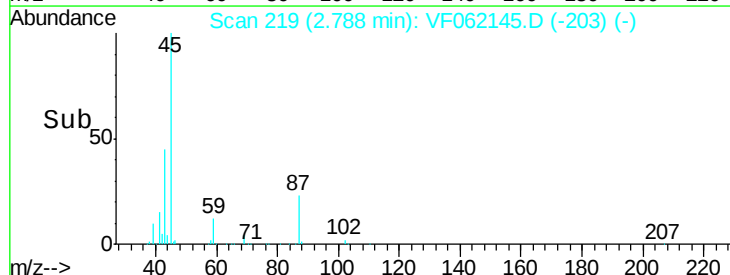
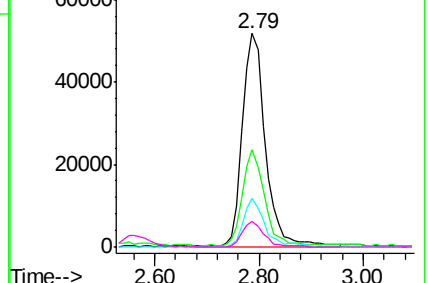


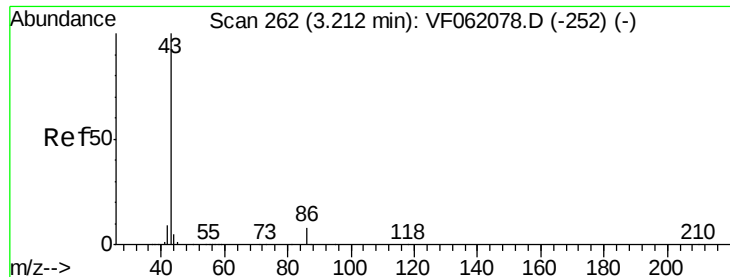
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 112.414 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

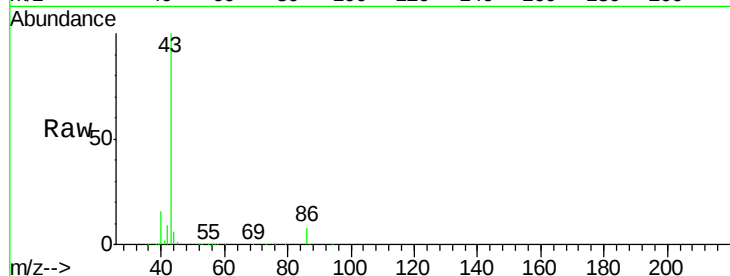
VF0326SBS01

Tot Ion: 43 Resp: 304104

Ion Ratio Lower Upper

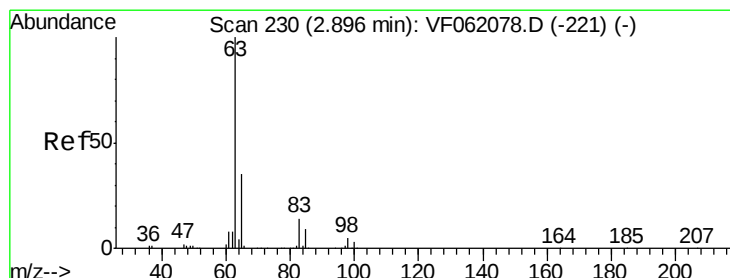
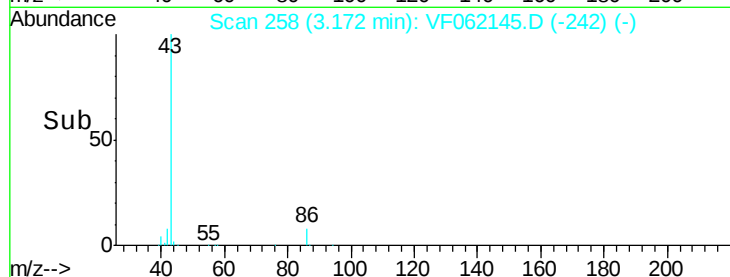
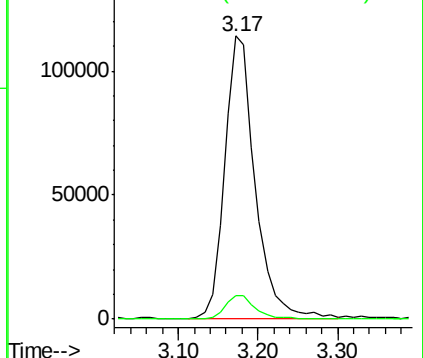
43 100

86 8.2 6.8 10.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 23.132 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

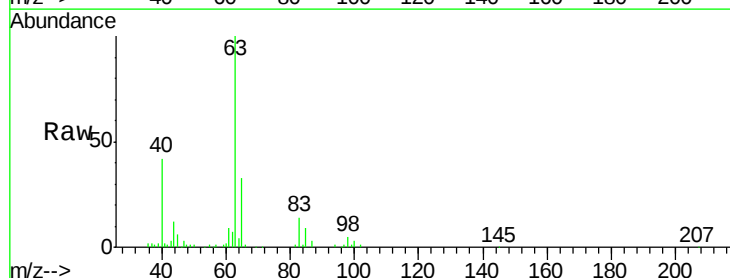
Tgt Ion: 63 Resp: 91656

Ion Ratio Lower Upper

63 100

98 5.0 2.7 8.1

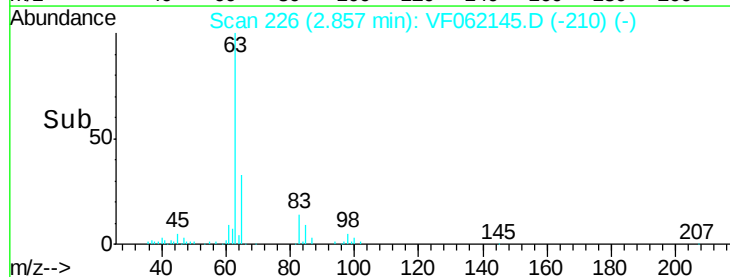
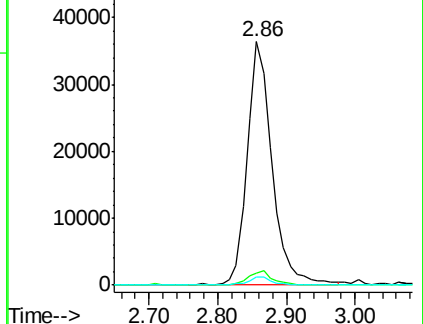
100 3.3 1.7 5.1

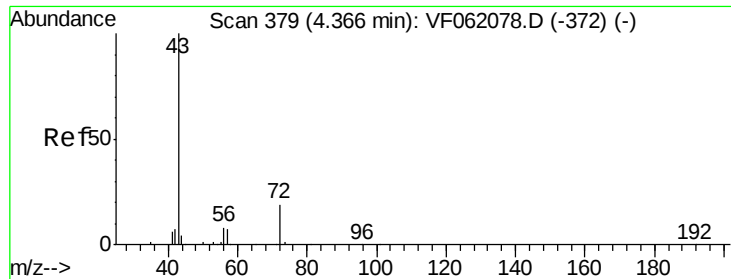


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 108.234 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

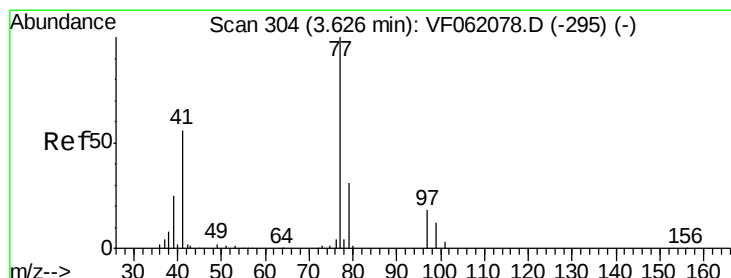
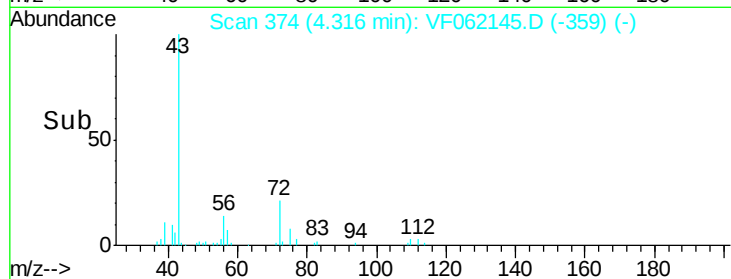
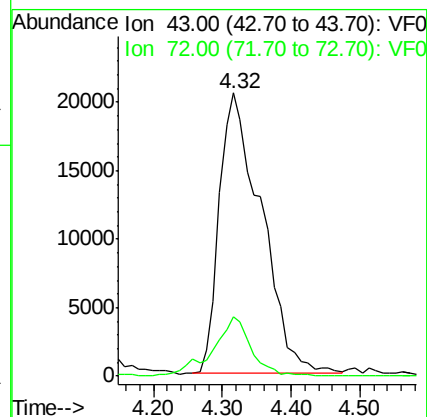
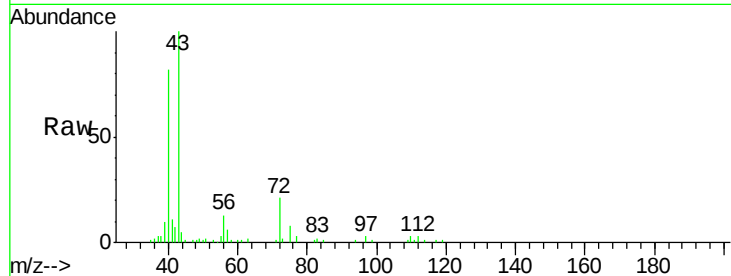
VF0326SBSD01

Tot Ion: 43 Resp: 86617

Ion Ratio Lower Upper

43 100

72 20.8 16.7 25.1



#26

2,2-Dichloropropane

Concen: 26.912 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.04 min

Lab File: VF062145.D

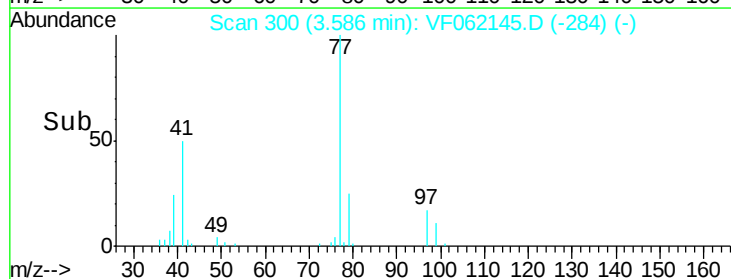
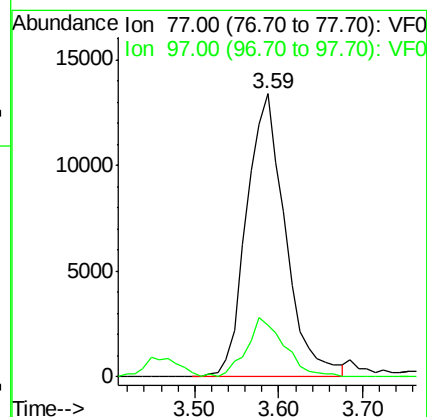
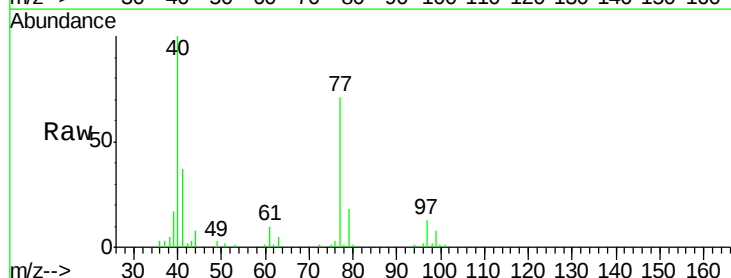
Acq: 26 Mar 2019 14:51

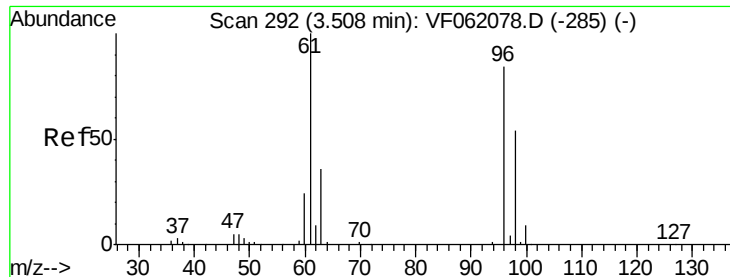
Tgt Ion: 77 Resp: 43234

Ion Ratio Lower Upper

77 100

97 18.1 10.3 30.9



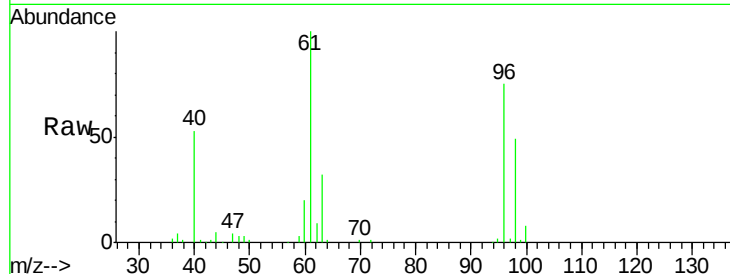


#27

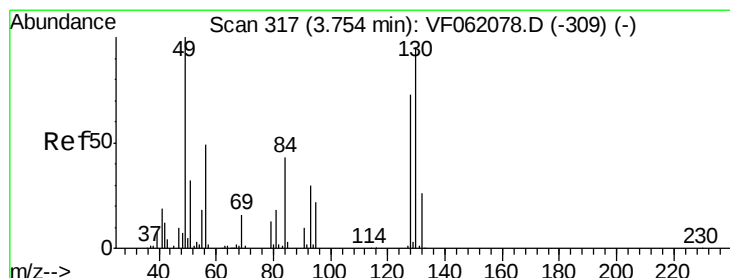
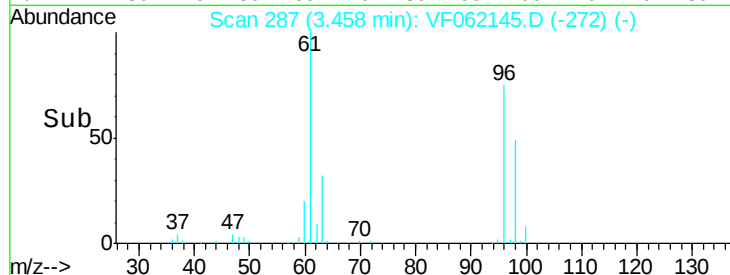
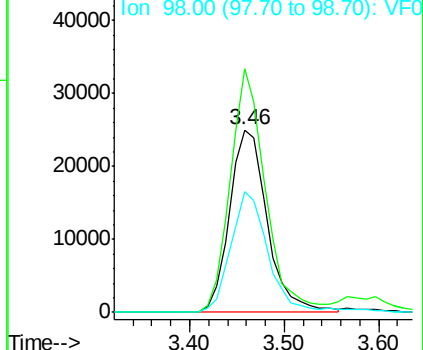
cis-1,2-Dichloroethene
 Concen: 22.881 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.05 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0326SBS01

Tot Ion: 96 Resp: 68860
 Ion Ratio Lower Upper
 96 100
 61 133.2 0.0 239.0
 98 65.8 0.0 128.2



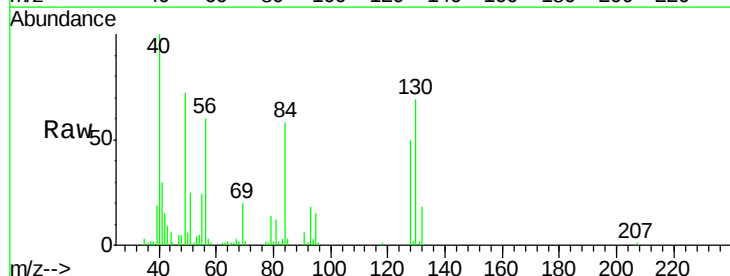
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



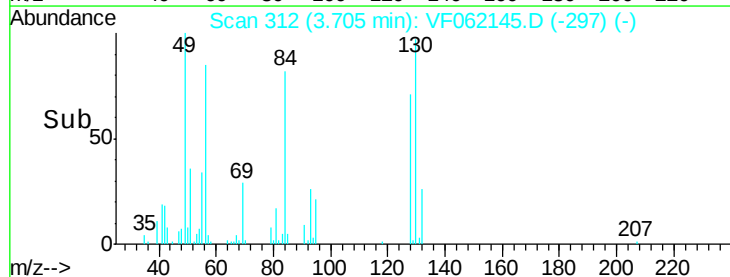
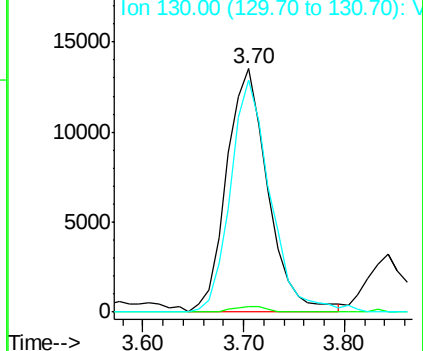
#28

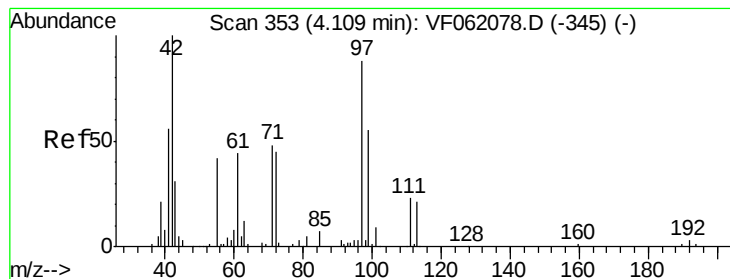
Bromochloromethane
 Concen: 23.863 ug/l
 RT: 3.70 min Scan# 312
 Delta R.T. -0.05 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Tgt Ion: 49 Resp: 38631
 Ion Ratio Lower Upper
 49 100
 129 2.3 0.0 5.6
 130 95.4 75.5 113.3



Abundance Ion 49.00 (48.70 to 49.70): VF0
 Ion 129.00 (128.70 to 129.70): V
 Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 109.068 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

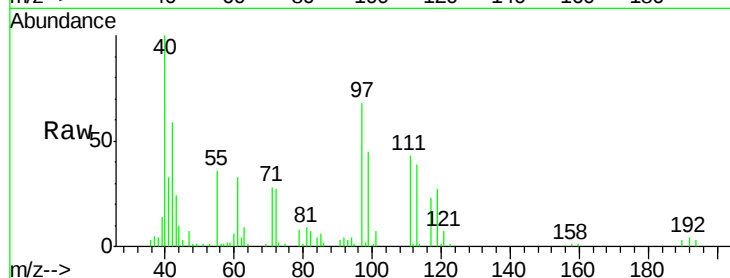
Tot Ion: 42 Resp: 37950

Ion Ratio Lower Upper

42 100

72 38.8 33.3 49.9

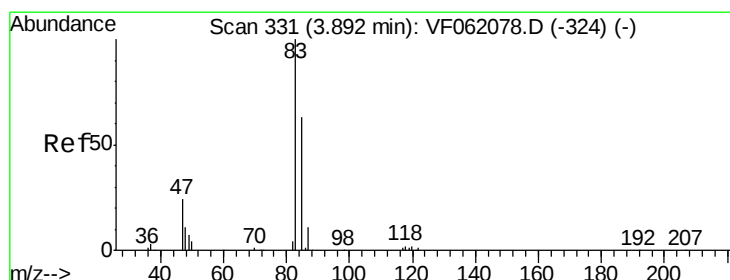
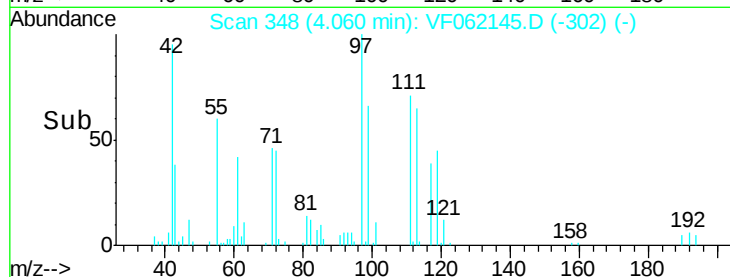
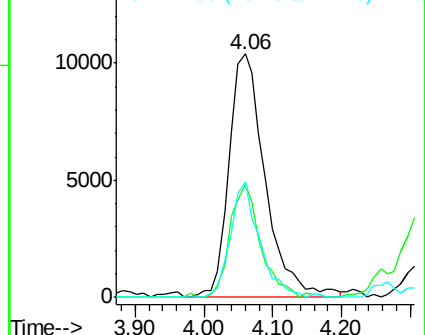
71 38.0 35.0 52.4



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 23.795 ug/l

RT: 3.84 min Scan# 326

Delta R.T. -0.05 min

Lab File: VF062145.D

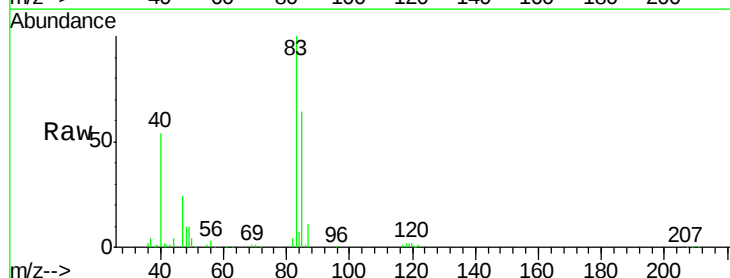
Acq: 26 Mar 2019 14:51

Tgt Ion: 83 Resp: 99638

Ion Ratio Lower Upper

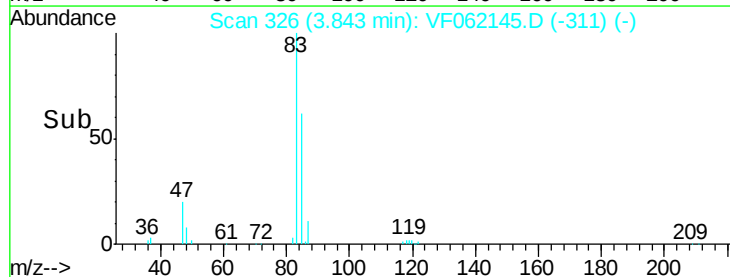
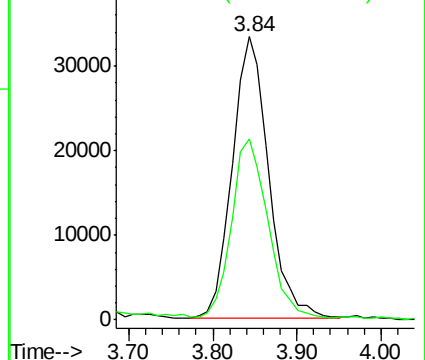
83 100

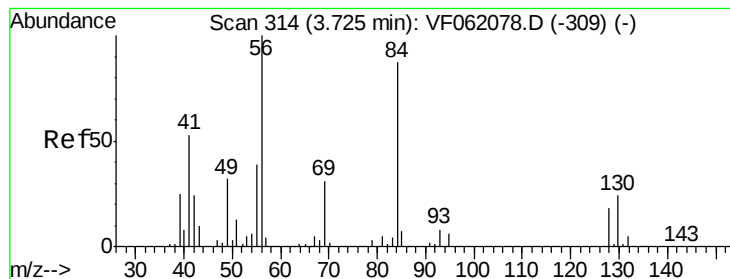
85 64.0 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 22.876 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

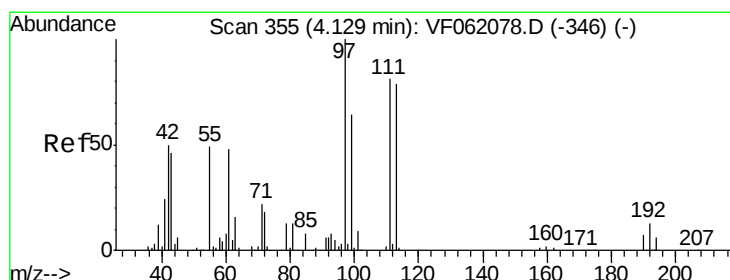
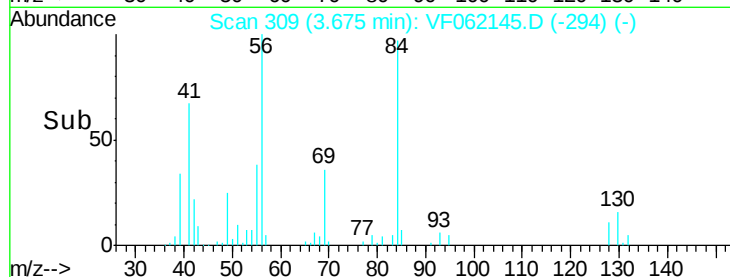
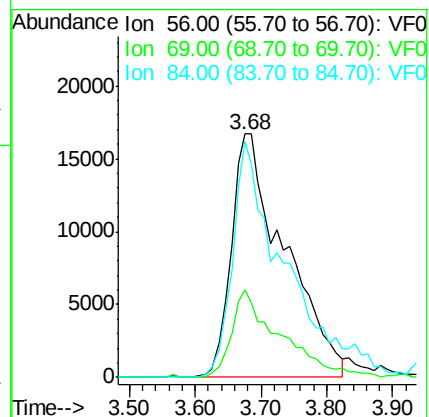
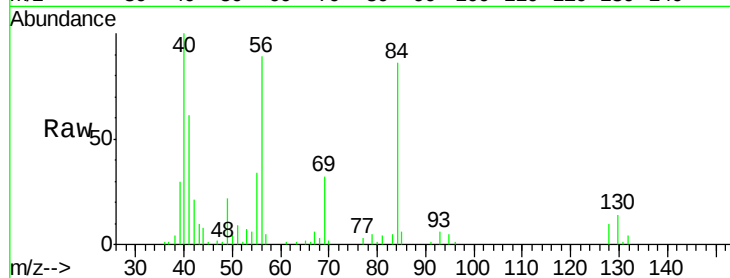
Tot Ion: 56 Resp: 94667

Ion Ratio Lower Upper

56 100

69 35.7 25.9 38.9

84 96.7 71.1 106.7



#32

1,1,1-Trichloroethane

Concen: 24.601 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

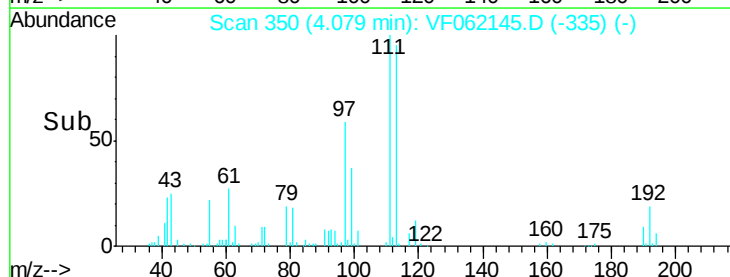
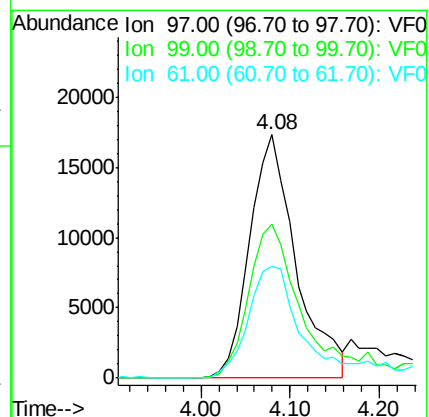
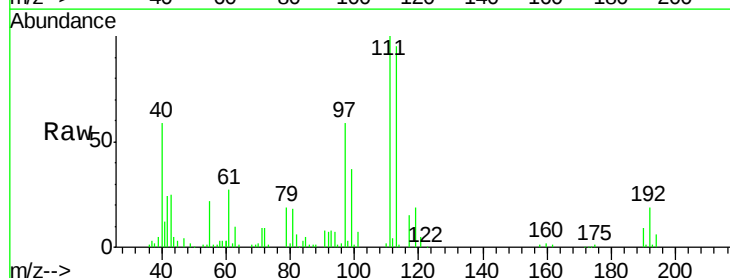
Tgt Ion: 97 Resp: 62663

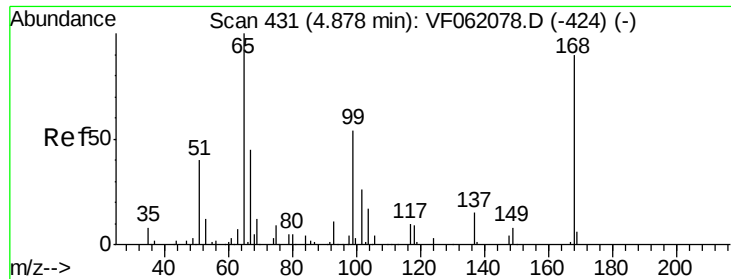
Ion Ratio Lower Upper

97 100

99 63.1 51.3 76.9

61 46.0 39.0 58.6





#33

1,2-Dichloroethane-d4

Concen: 47.923 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

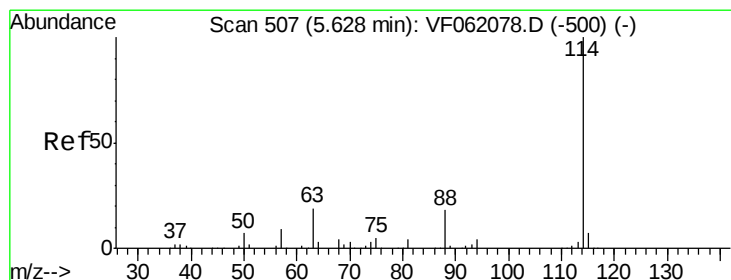
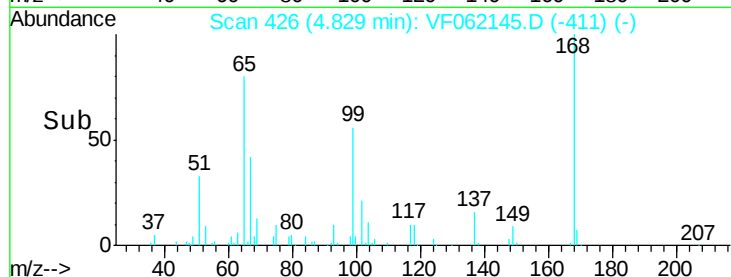
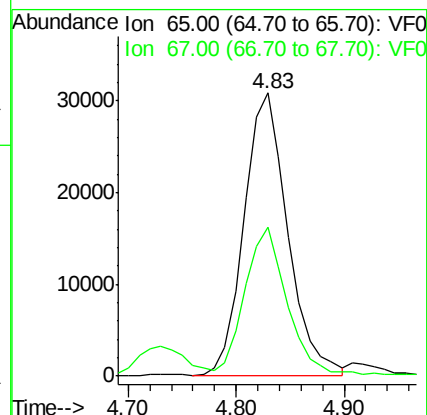
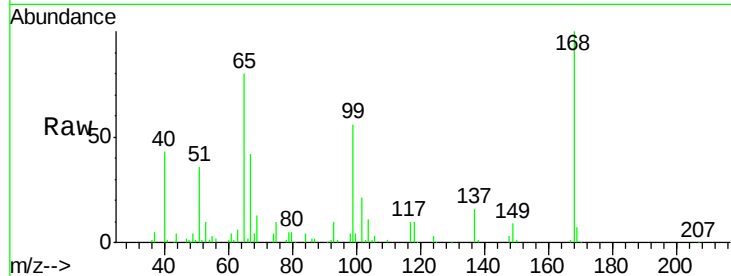
VF0326SBS01

Tot Ion: 65 Resp: 87287

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

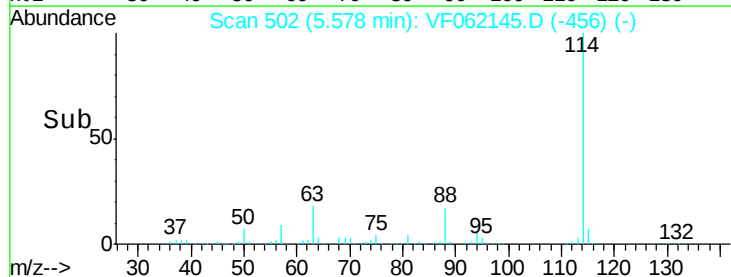
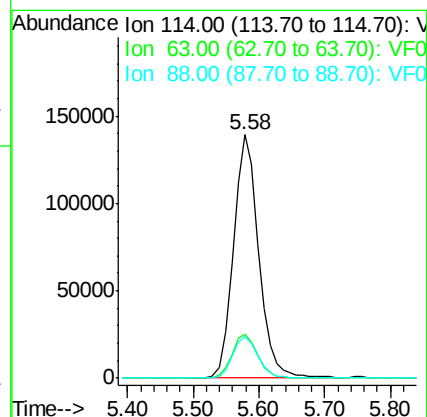
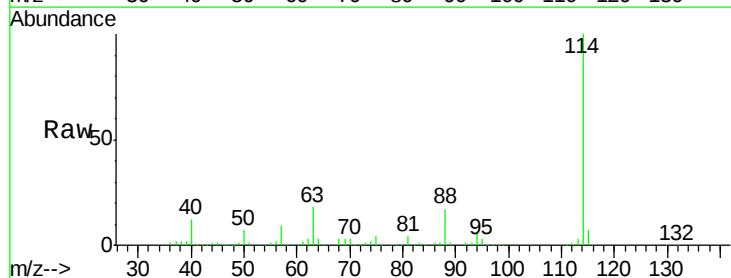
Tgt Ion: 114 Resp: 375533

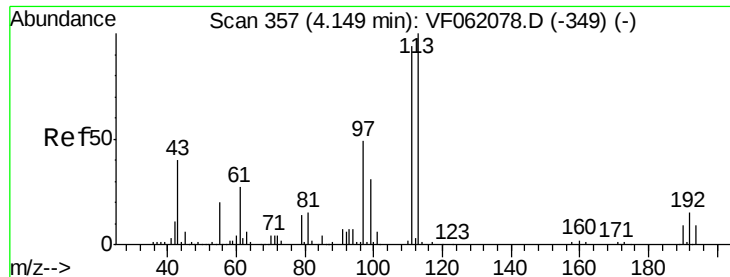
Ion Ratio Lower Upper

114 100

63 18.1 0.0 37.8

88 16.8 0.0 36.4

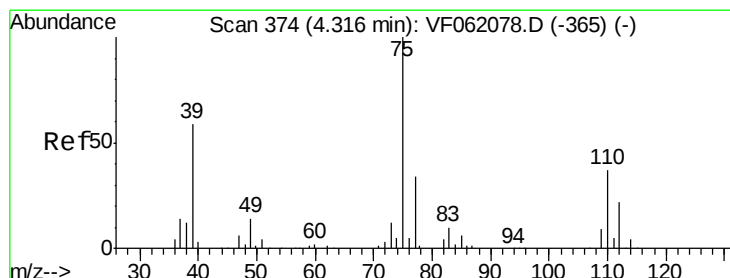
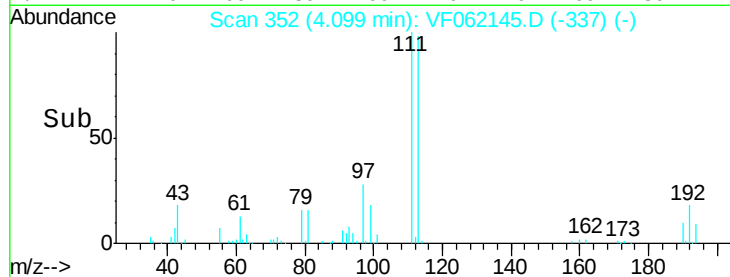
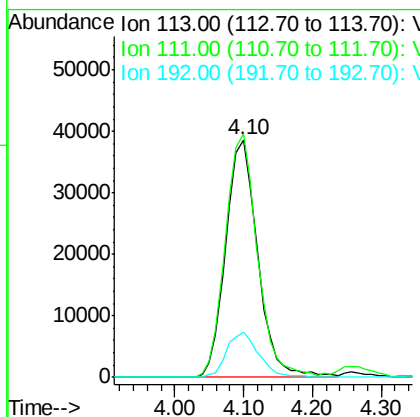
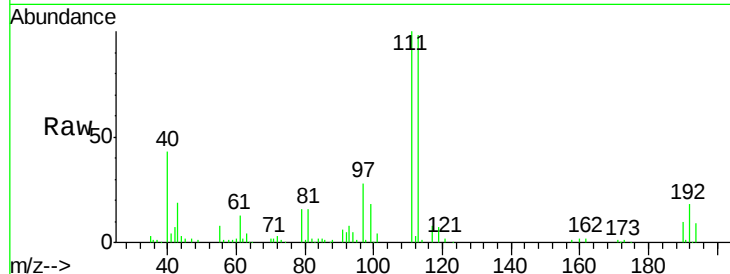




#35
 Dibromofluoromethane
 Concen: 49.135 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.05 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

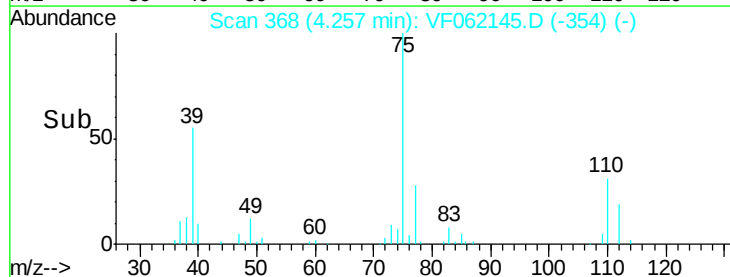
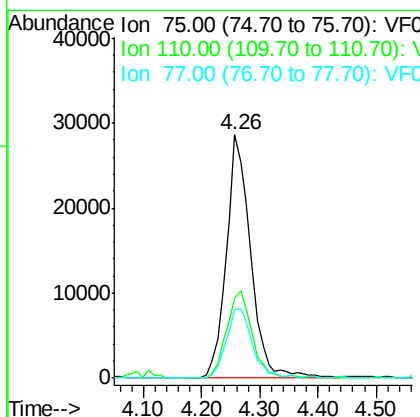
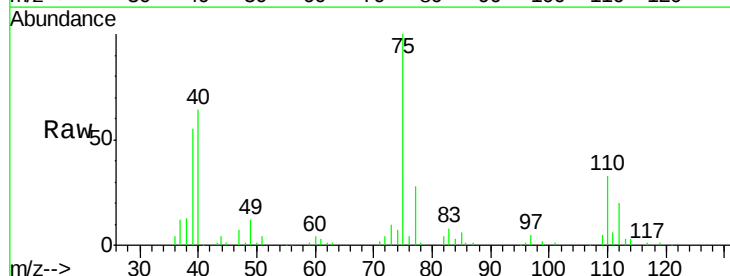
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0326SBS01

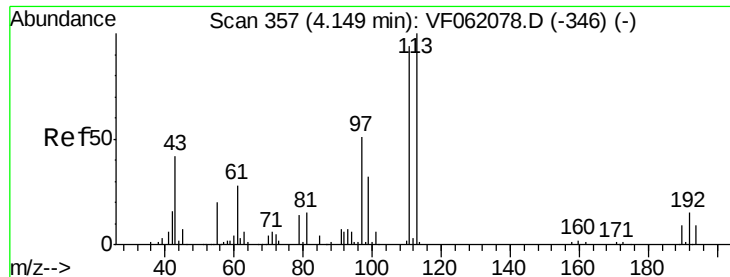
Tot Ion:113 Resp: 124818
 Ion Ratio Lower Upper
 113 100
 111 102.5 75.4 113.0
 192 19.3 12.3 18.5#



#36
 1,1-Dichloropropene
 Concen: 23.121 ug/l
 RT: 4.26 min Scan# 368
 Delta R.T. -0.06 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Tgt Ion: 75 Resp: 82703
 Ion Ratio Lower Upper
 75 100
 110 32.6 18.5 55.5
 77 28.0 27.4 41.0





#37

Ethyl Acetate

Concen: 21.360 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.06 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

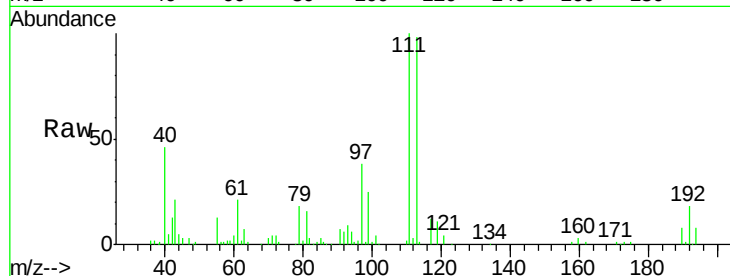
Tot Ion: 43 Resp: 33391

Ion Ratio Lower Upper

43 100

61 97.2 53.6 80.4#

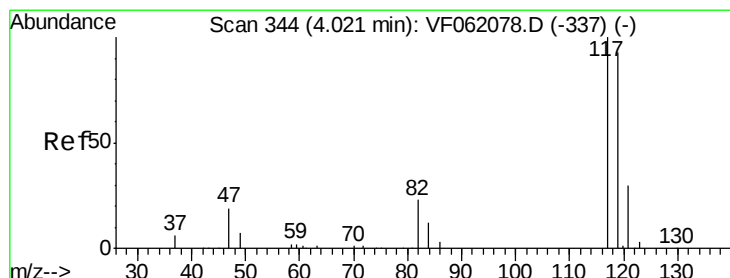
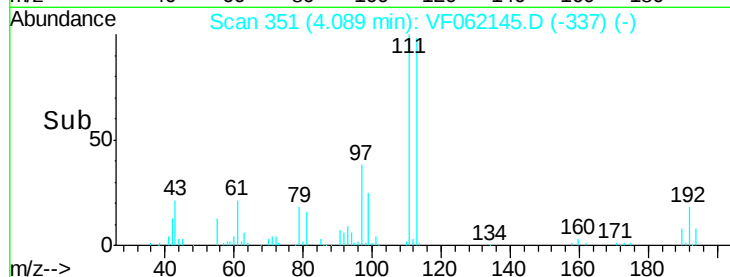
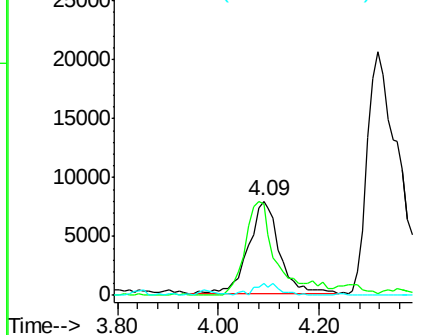
70 13.0 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 24.757 ug/l

RT: 3.98 min Scan# 340

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

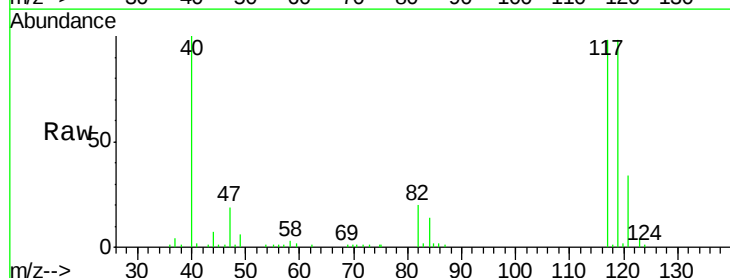
Tgt Ion:117 Resp: 60355

Ion Ratio Lower Upper

117 100

119 100.2 74.7 112.1

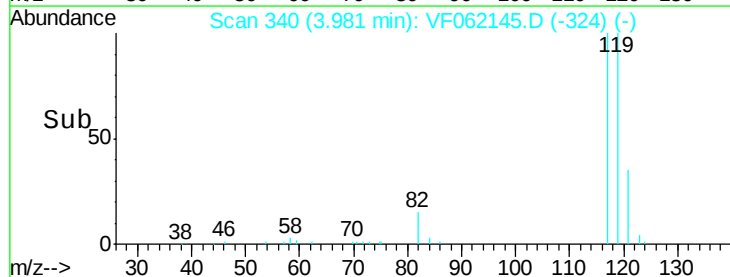
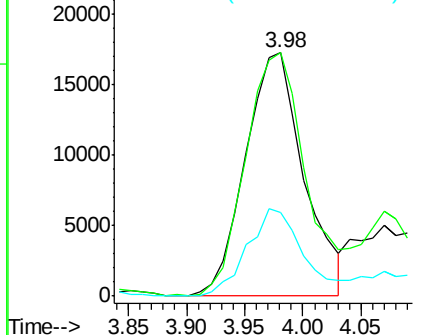
121 34.4 23.6 35.4

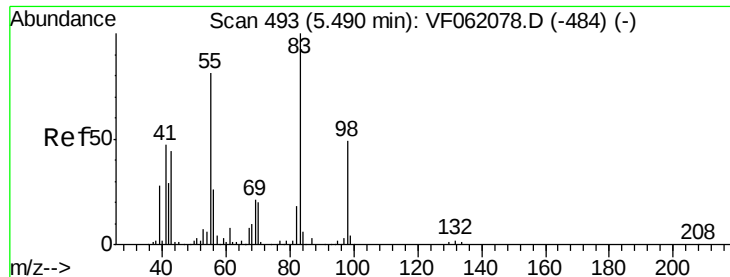


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

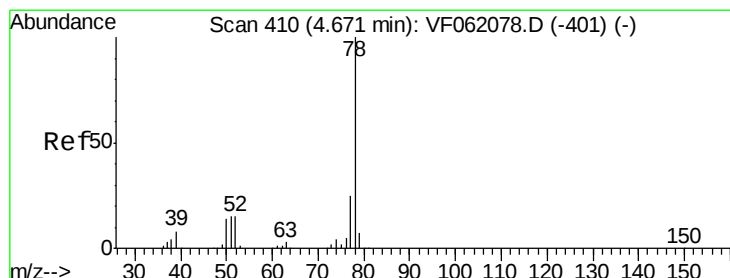
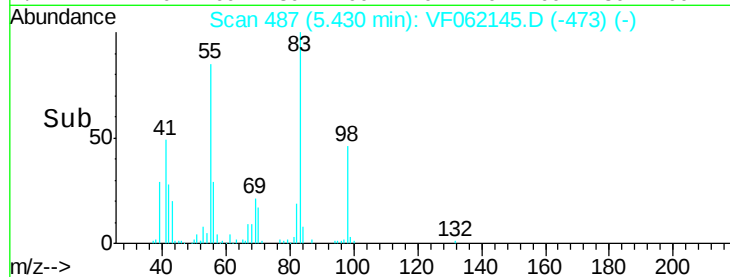
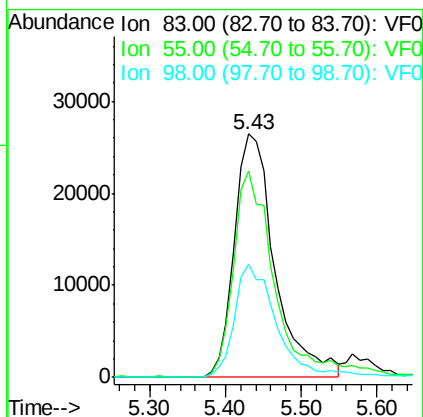
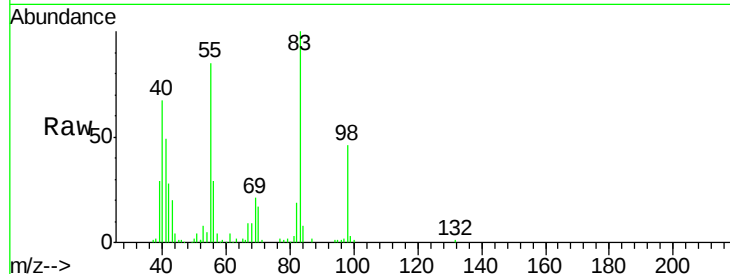




#39
Methvlcvclohexane
Concen: 23.855 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.06 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

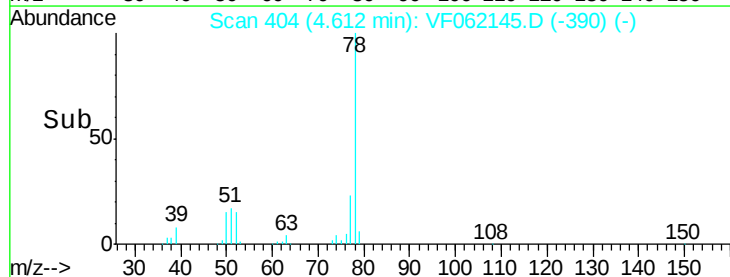
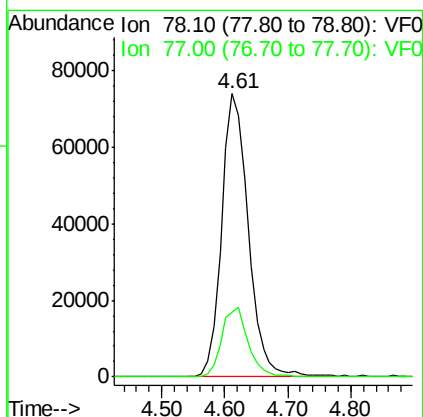
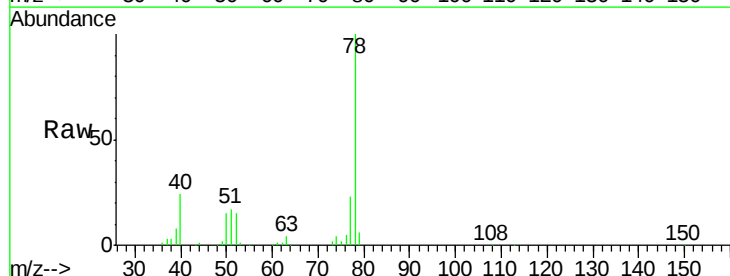
Instrument :
MSVOA_F
ClientSampleId :
VF0326SBS01

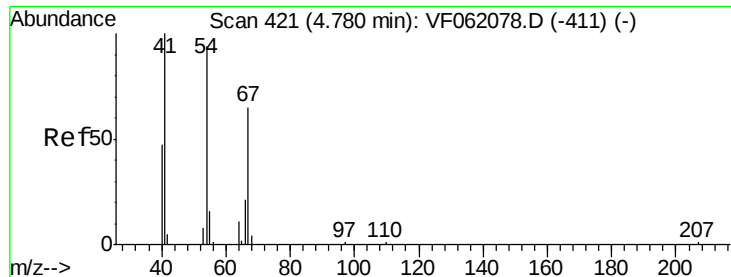
Tot Ion: 83 Resp: 99034
Ion Ratio Lower Upper
83 100
55 84.7 64.5 96.7
98 46.4 39.1 58.7



#40
Benzene
Concen: 22.775 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.06 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Tgt Ion: 78 Resp: 218394
Ion Ratio Lower Upper
78 100
77 22.7 19.8 29.6

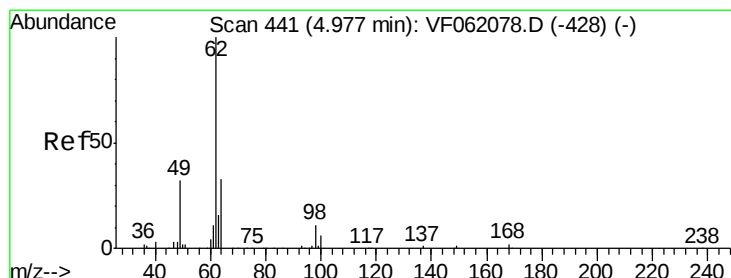
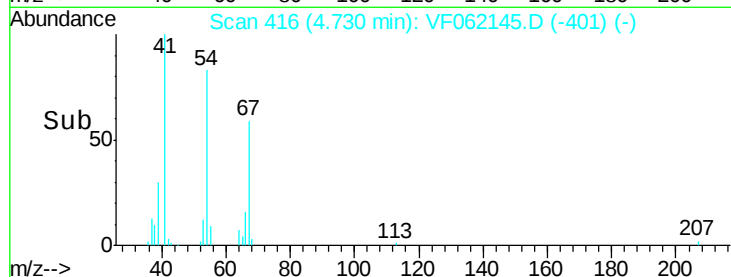
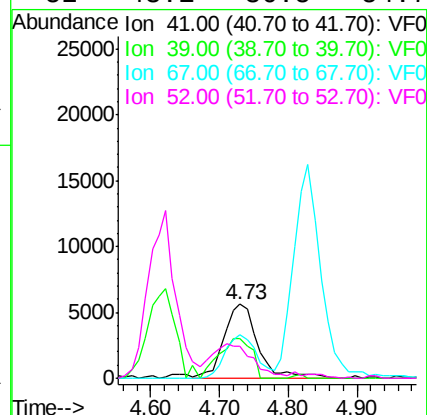
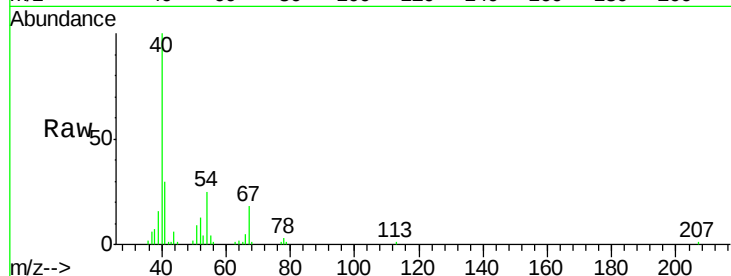




#41
Methacrylonitrile
Concen: 23.098 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.05 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

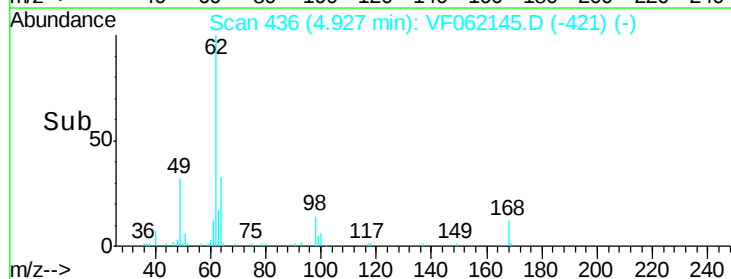
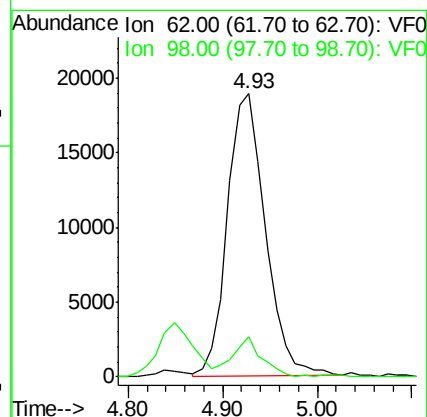
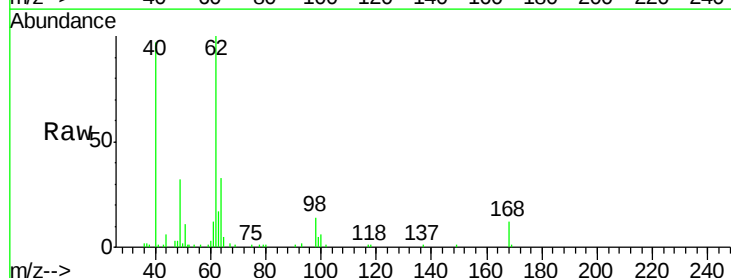
Instrument :
MSVOA_F
ClientSampleId :
VF0326SBS01

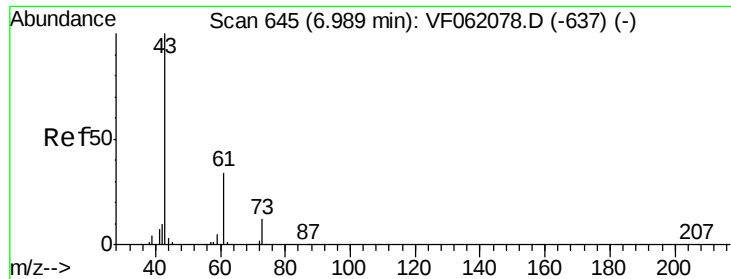
Tot Ion:	41	Resp:	19105
Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.5	65.3
67	58.8	51.6	77.4
52	43.1	36.5	54.7



#42
1,2-Dichloroethane
Concen: 23.170 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.05 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Tgt Ion:	62	Resp:	52540
Ion	Ratio	Lower	Upper
62	100		
98	14.1	0.0	23.2



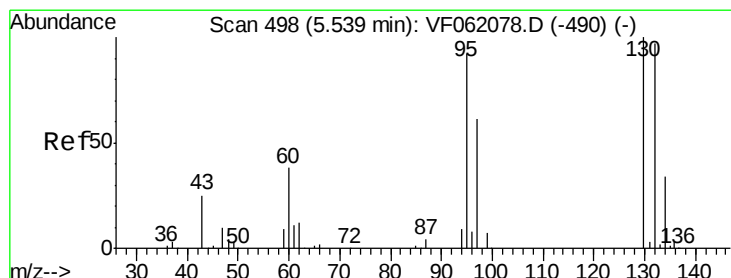
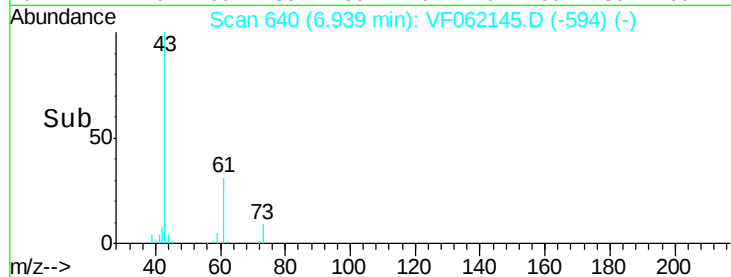
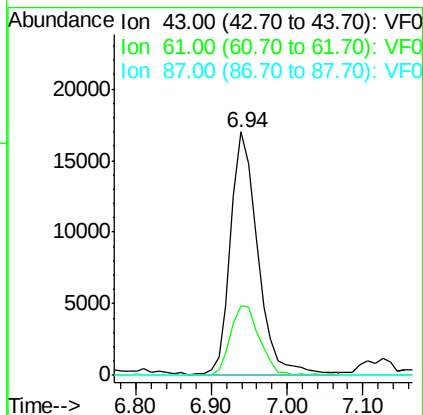
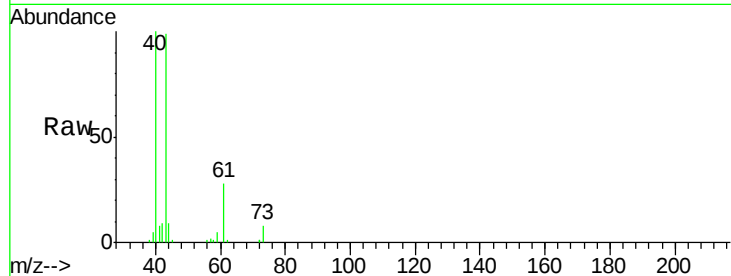


#43

Isopropyl Acetate
 Concen: 22.582 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.05 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0326SBS01

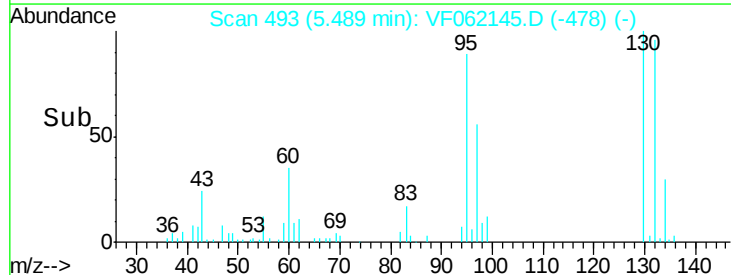
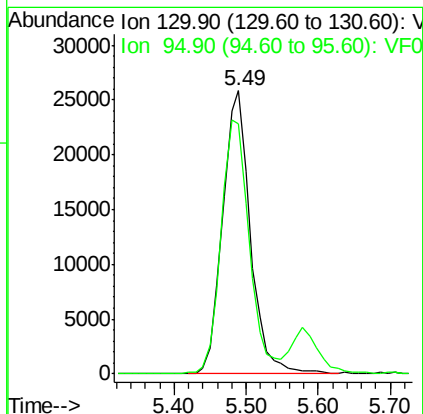
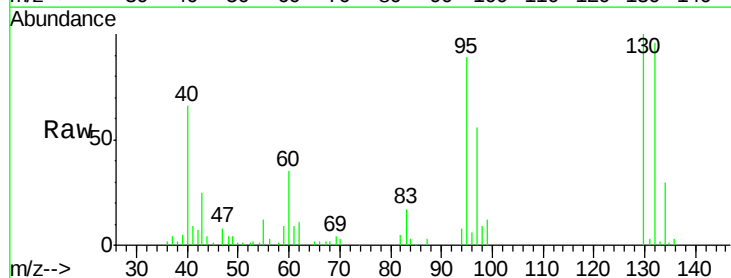
Tot Ion: 43 Resp: 42752
 Ion Ratio Lower Upper
 43 100
 61 28.6 27.0 40.4
 87 0.0 0.4 0.6#

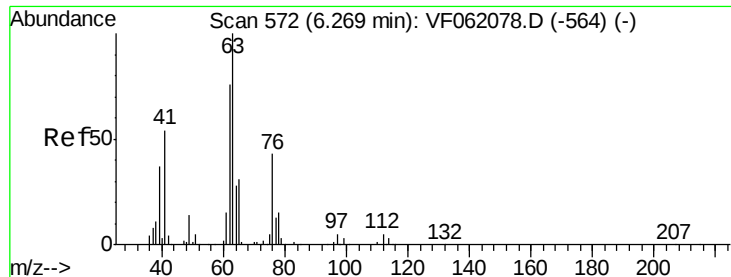


#44

Trichloroethene
 Concen: 23.442 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.05 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Tgt Ion: 130 Resp: 68726
 Ion Ratio Lower Upper
 130 100
 95 88.5 0.0 183.4





#45

1,2-Dichloropropane

Concen: 22.777 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

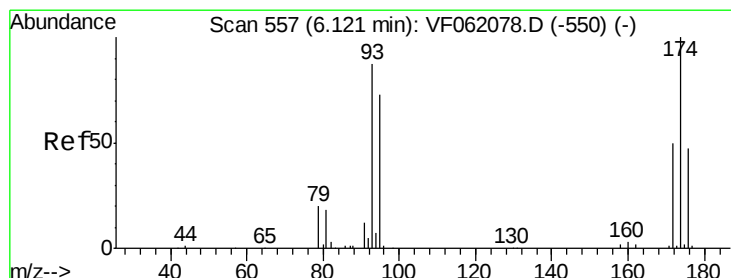
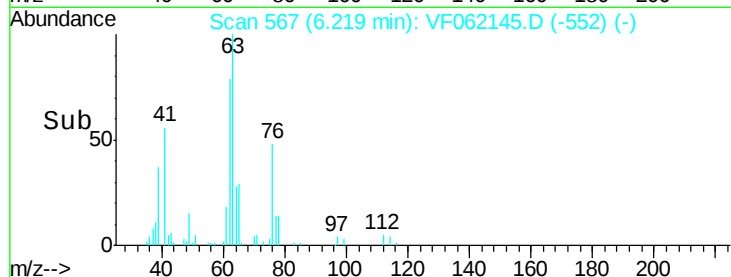
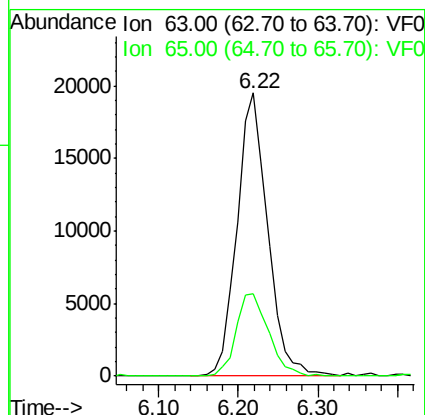
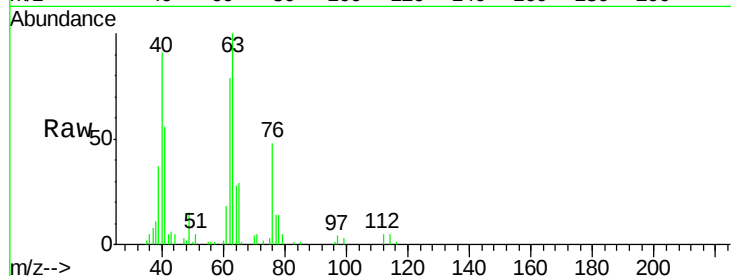
VF0326SBS01

Tot Ion: 63 Resp: 52094

Ion Ratio Lower Upper

63 100

65 29.3 24.9 37.3



#46

Dibromomethane

Concen: 22.259 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

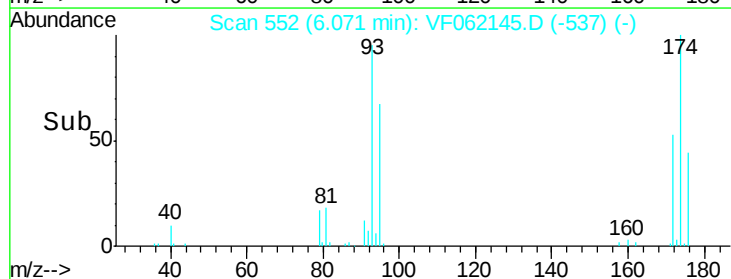
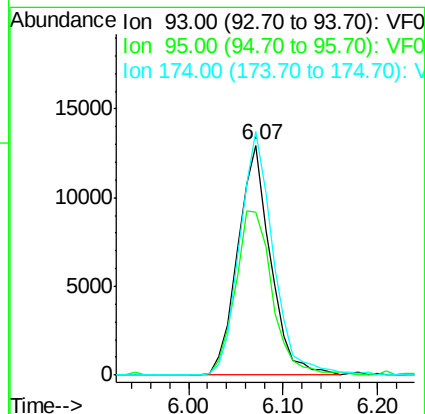
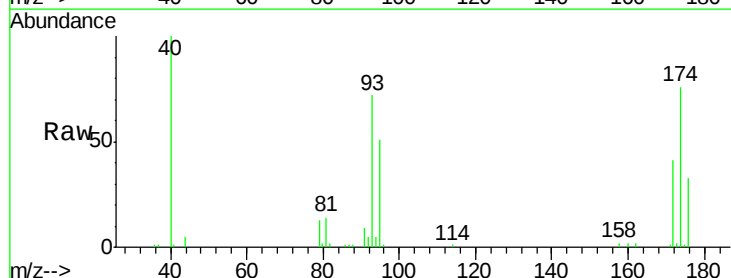
Tgt Ion: 93 Resp: 31127

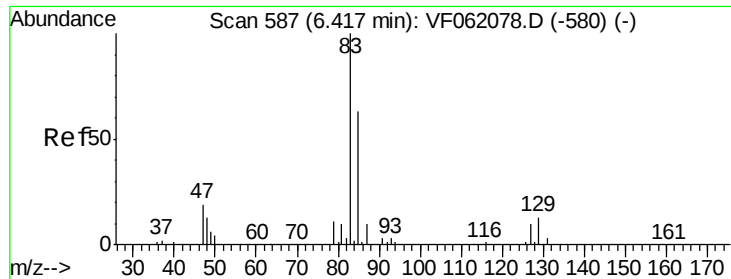
Ion Ratio Lower Upper

93 100

95 70.7 67.4 101.2

174 105.8 92.0 138.0





#47

Bromodichloromethane

Concen: 23.070 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

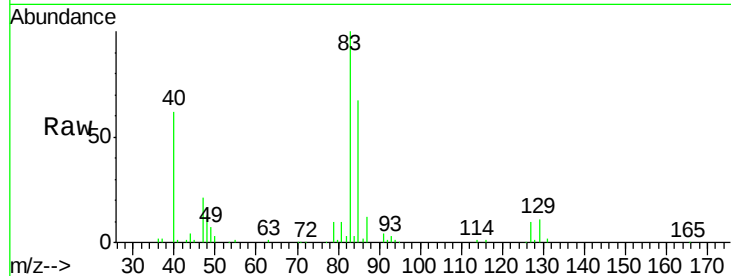
Tot Ion: 83 Resp: 71458

Ion Ratio Lower Upper

83 100

85 67.3 50.7 76.1

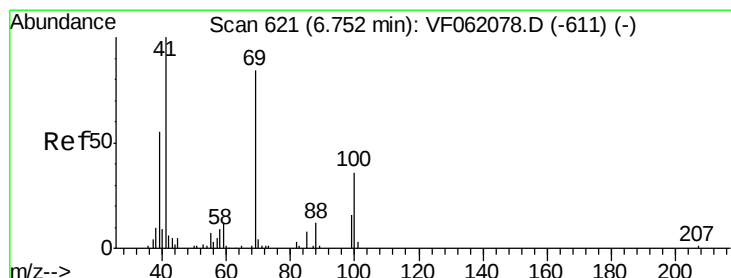
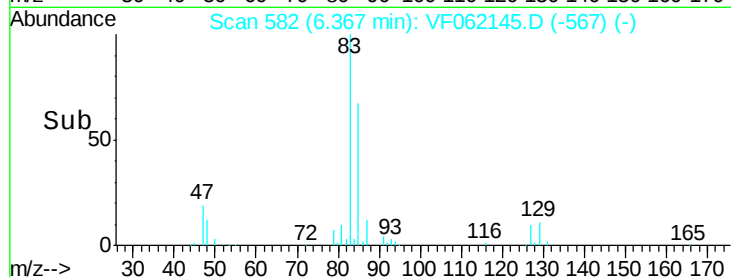
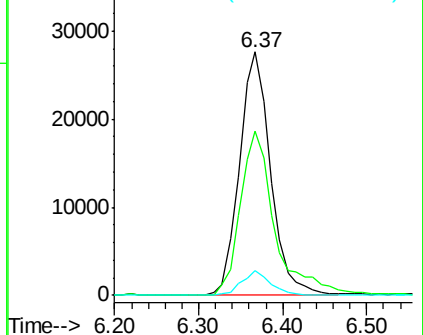
127 10.3 7.8 11.6



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: 22.959 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

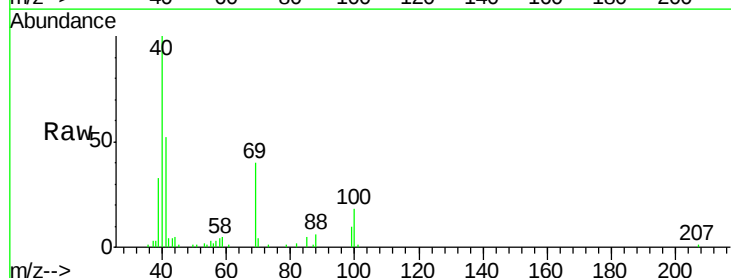
Tgt Ion: 41 Resp: 24748

Ion Ratio Lower Upper

41 100

69 77.3 66.6 100.0

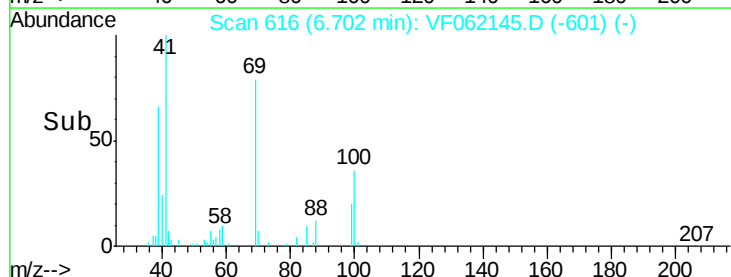
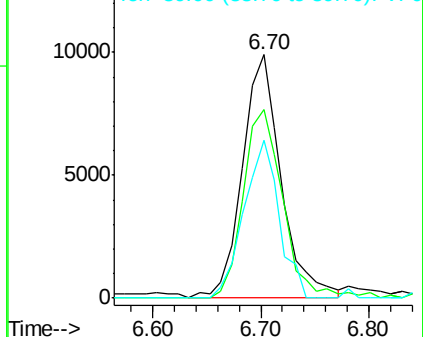
39 64.6 43.6 65.4

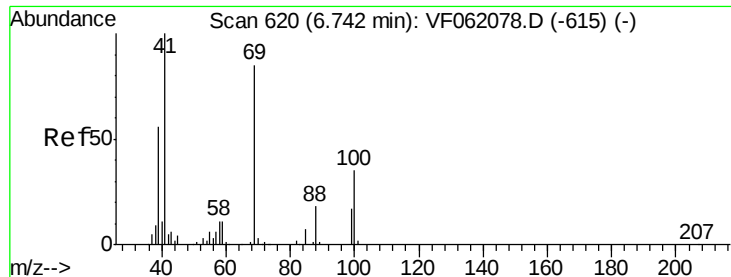


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

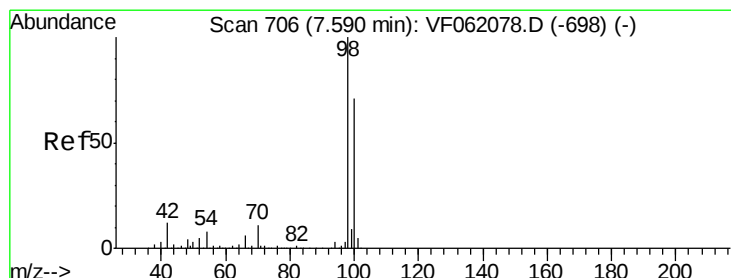
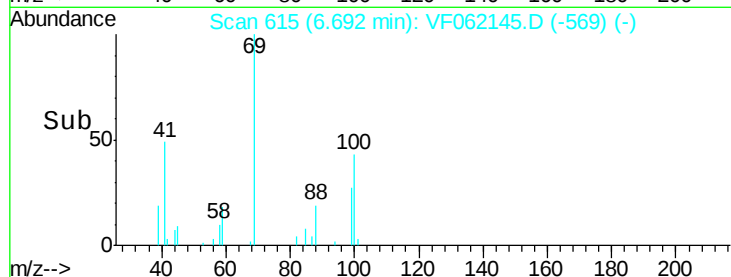
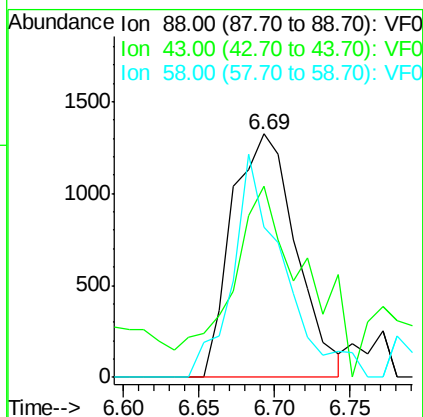
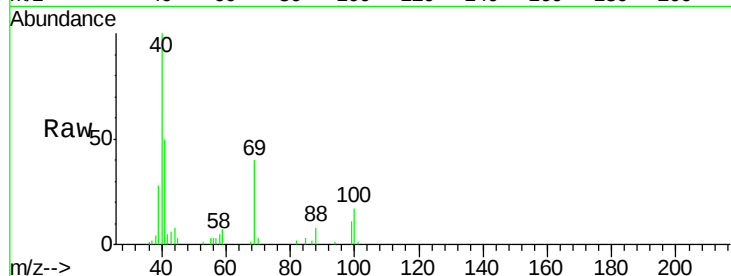




#49
 1,4-Dioxane
 Concen: 413.712 ug/l
 RT: 6.69 min Scan# 615
 Delta R.T. -0.05 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

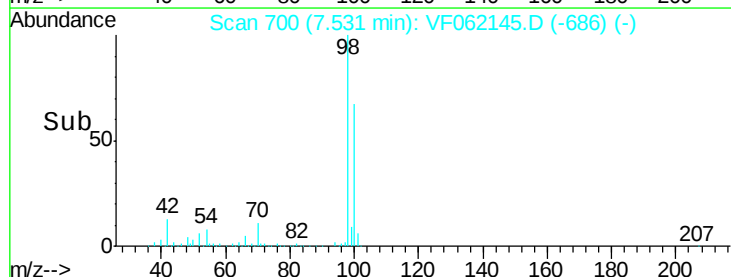
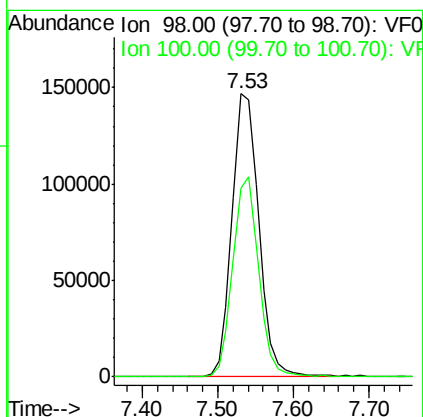
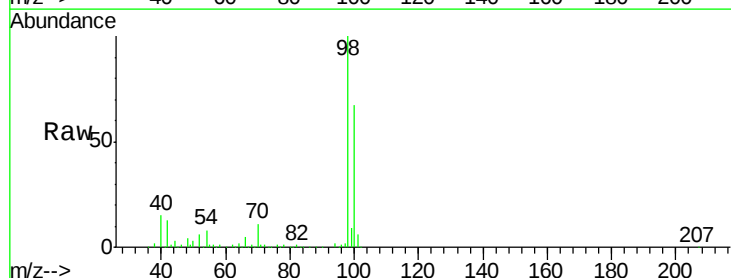
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0326SBSD01

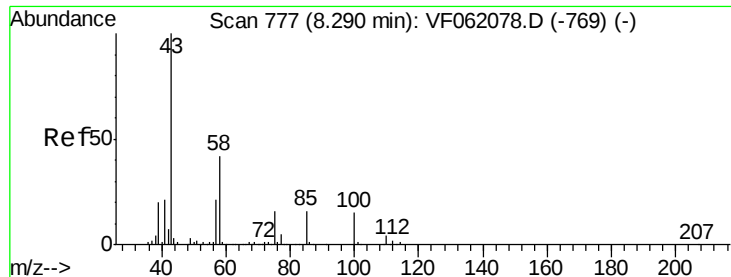
Tot Ion: 88 Resp: 3913
 Ion Ratio Lower Upper
 88 100
 43 78.7 35.0 52.4#
 58 61.7 49.9 74.9



#50
 Toluene-d8
 Concen: 47.484 ug/l
 RT: 7.53 min Scan# 700
 Delta R.T. -0.06 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Tgt Ion: 98 Resp: 360070
 Ion Ratio Lower Upper
 98 100
 100 66.6 57.0 85.6





#51

4-Methyl-2-Pentanone

Concen: 119.122 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

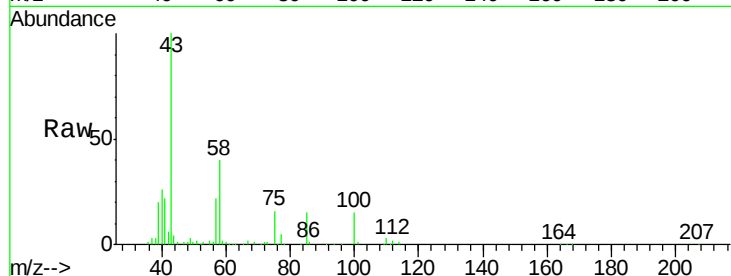
VF0326SBSD01

Tot Ion: 43 Resp: 150941

Ion Ratio Lower Upper

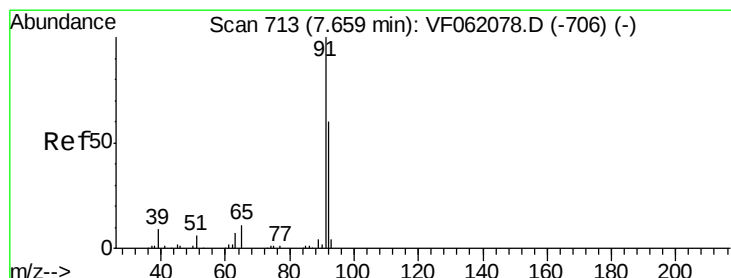
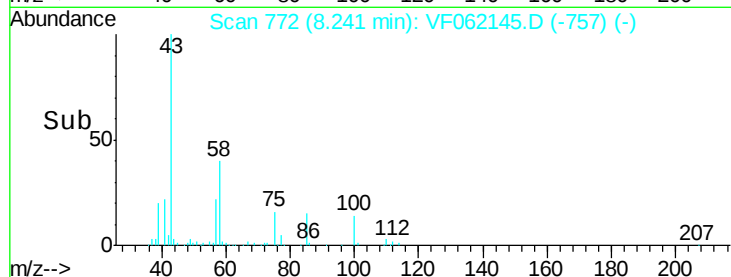
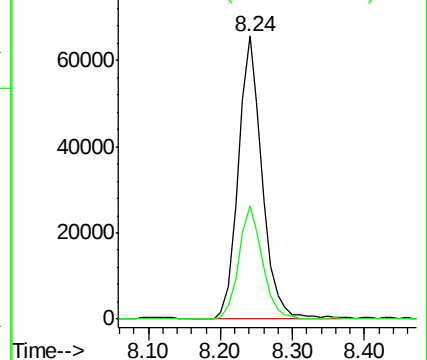
43 100

58 39.9 33.8 50.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.612 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.05 min

Lab File: VF062145.D

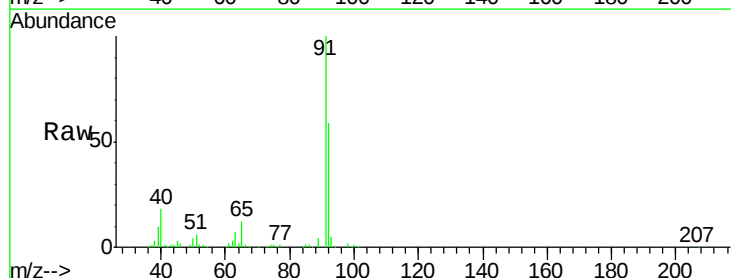
Acq: 26 Mar 2019 14:51

Tgt Ion: 92 Resp: 125591

Ion Ratio Lower Upper

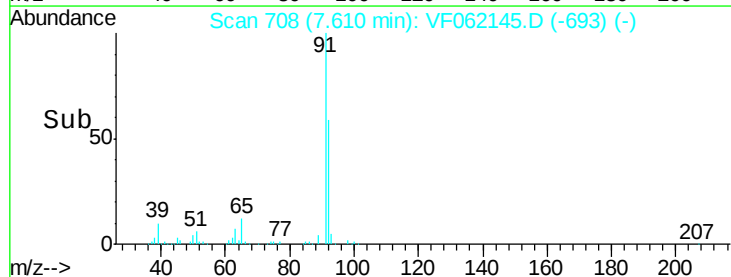
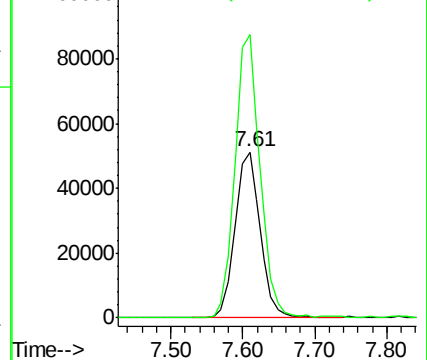
92 100

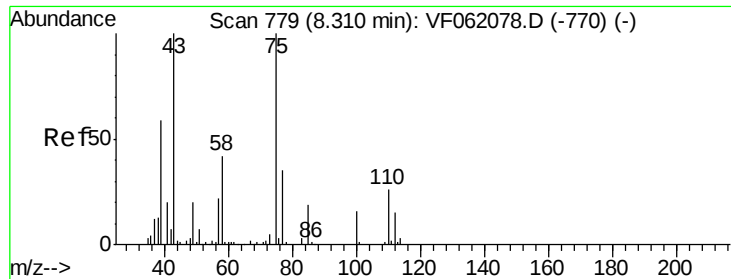
91 170.3 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

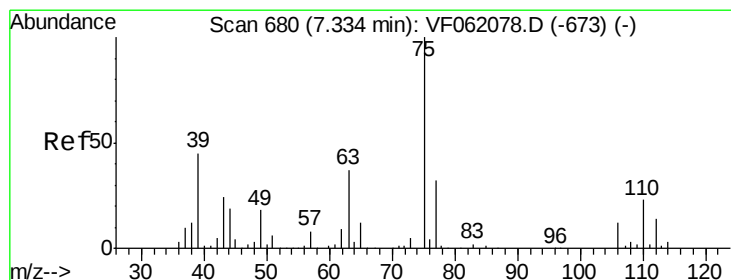
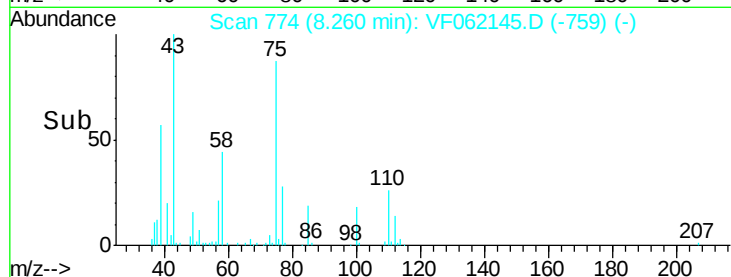
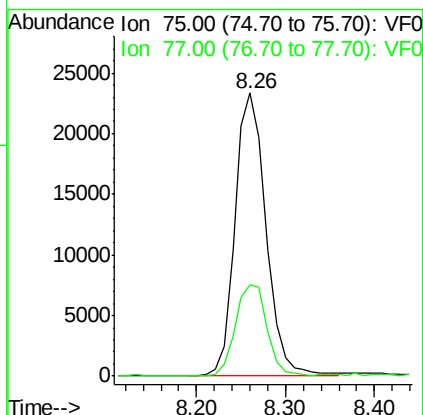
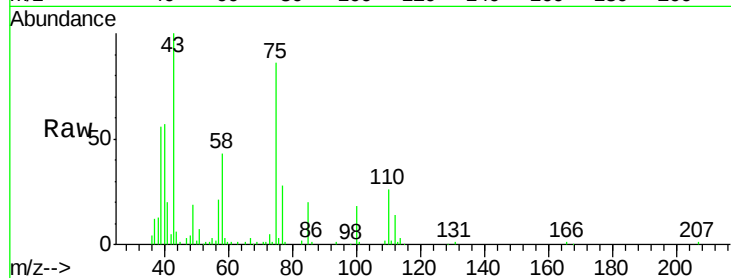




#53
 t-1,3-Dichloropropene
 Concen: 23.354 ug/l
 RT: 8.26 min Scan# 774
 Delta R.T. -0.05 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

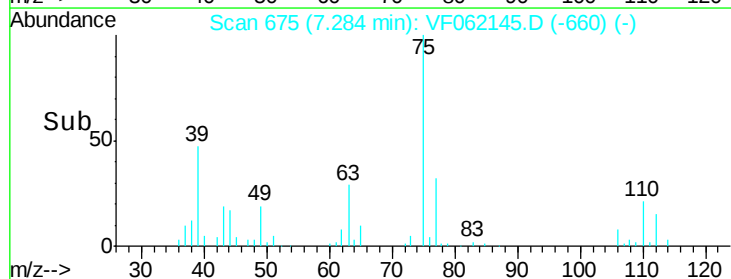
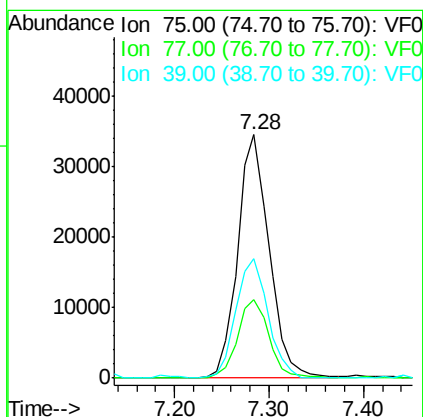
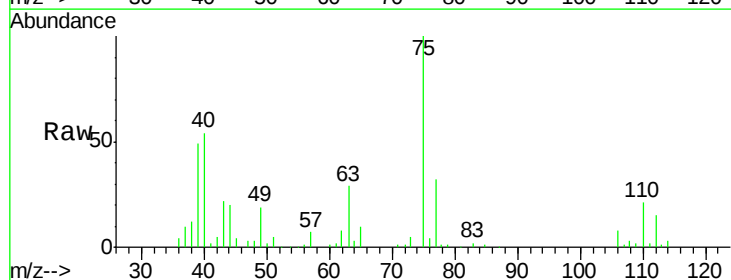
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0326SBSD01

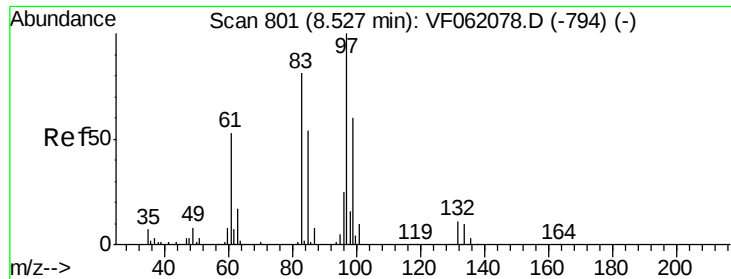
Tot Ion: 75 Resp: 56786
 Ion Ratio Lower Upper
 75 100
 77 32.1 28.0 42.0



#54
 cis-1,3-Dichloropropene
 Concen: 22.922 ug/l
 RT: 7.28 min Scan# 675
 Delta R.T. -0.05 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Tgt Ion: 75 Resp: 79750
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.8 38.6
 39 48.9 35.9 53.9





#55

1,1,2-Trichloroethane

Concen: 22.970 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

Tot Ion: 97 Resp: 36237

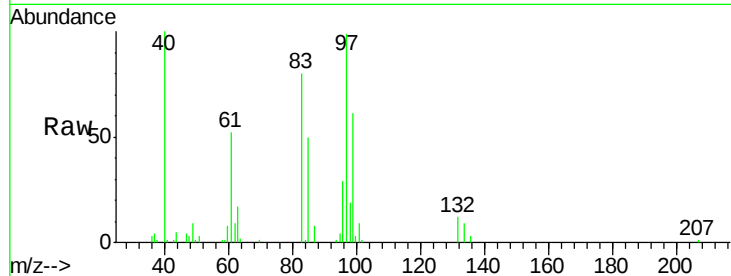
Ion Ratio Lower Upper

97 100

83 80.6 64.6 97.0

85 50.2 43.6 65.4

99 61.4 48.2 72.2

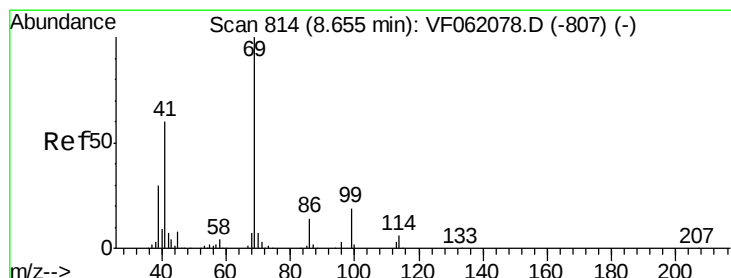
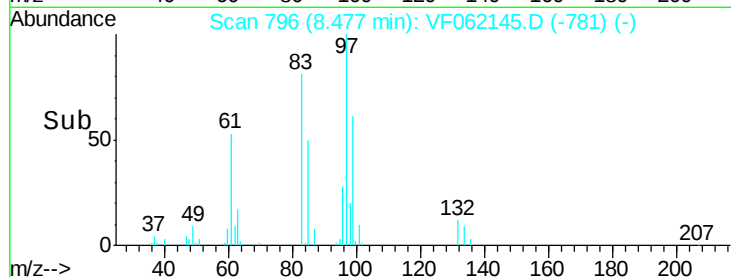
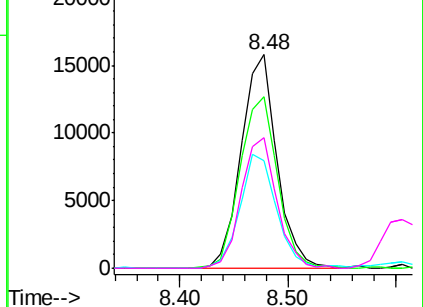


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 21.794 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

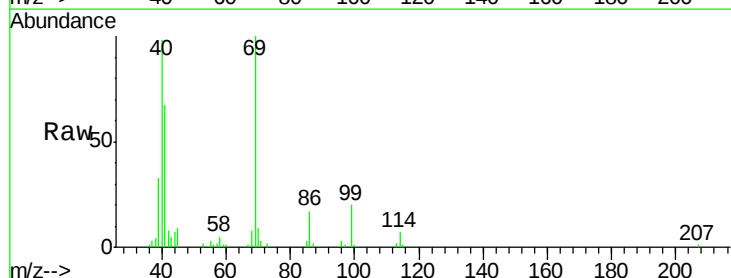
Tgt Ion: 69 Resp: 41005

Ion Ratio Lower Upper

69 100

41 66.9 48.2 72.2

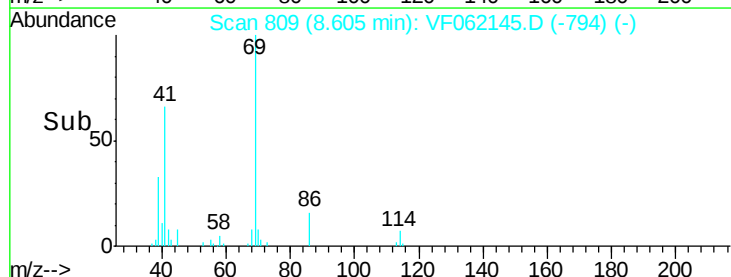
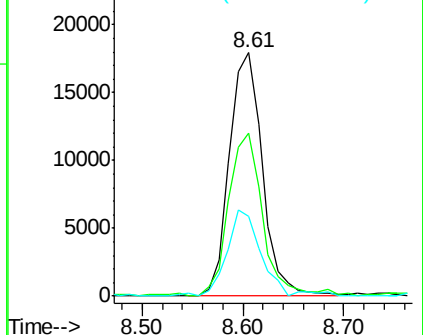
39 32.7 24.0 36.0

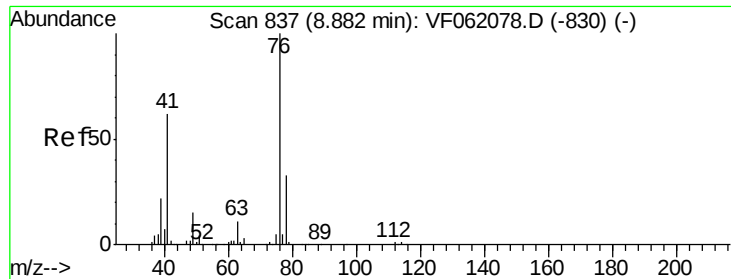


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.623 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

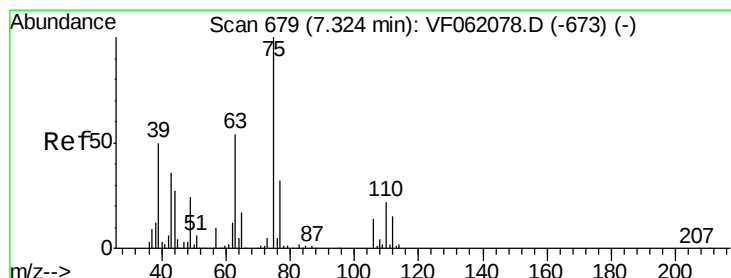
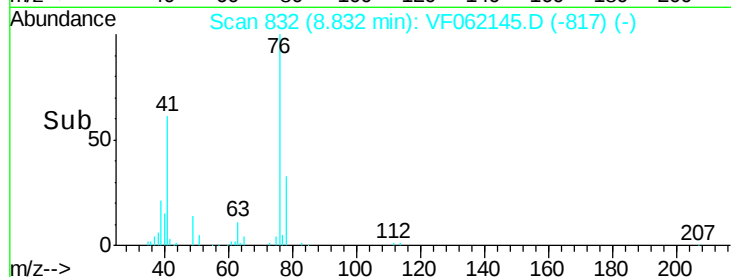
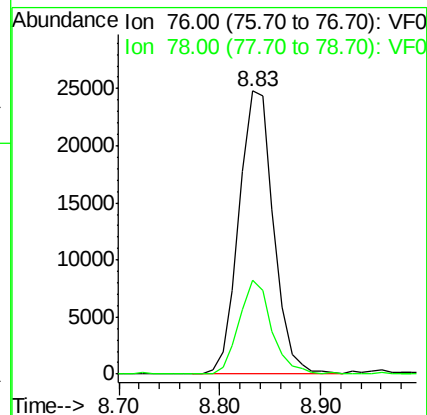
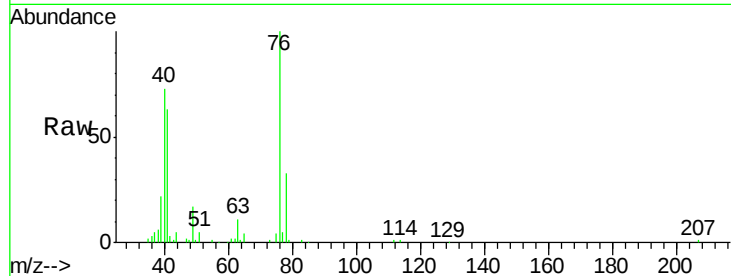
VF0326SBS01

Tot Ion: 76 Resp: 59235

Ion Ratio Lower Upper

76 100

78 33.2 26.6 39.8



#58

2-Chloroethyl Vinyl ether

Concen: 99.198 ug/l

RT: 7.27 min Scan# 674

Delta R.T. -0.05 min

Lab File: VF062145.D

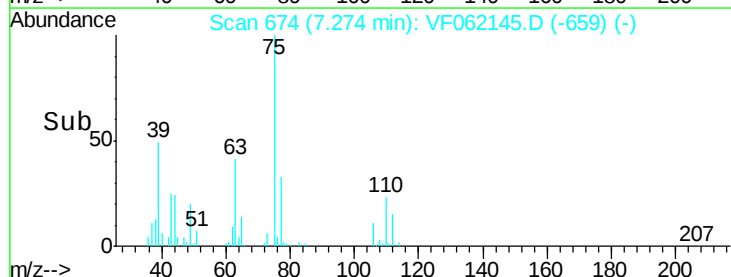
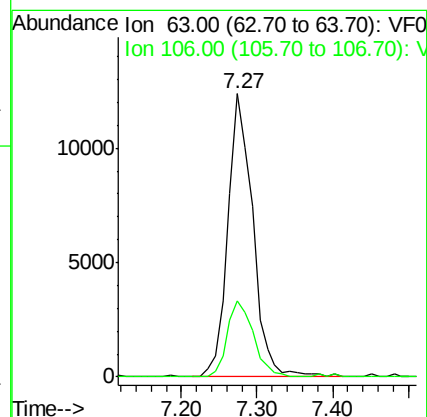
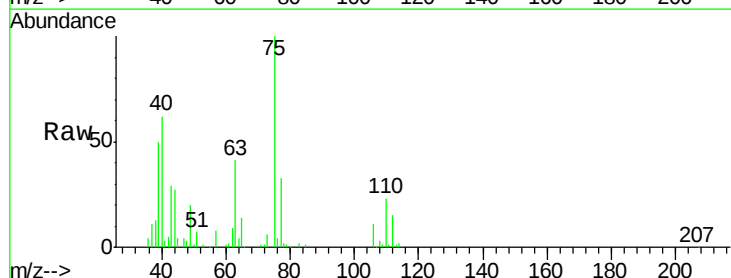
Acq: 26 Mar 2019 14:51

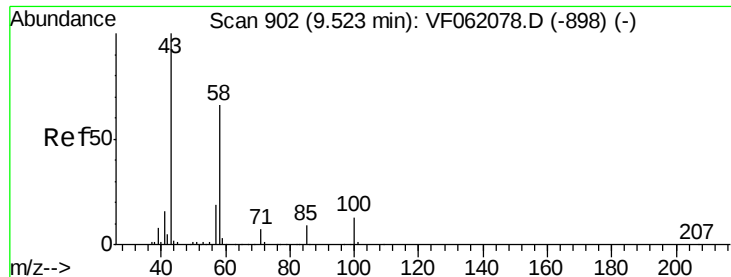
Tgt Ion: 63 Resp: 28321

Ion Ratio Lower Upper

63 100

106 27.0 21.5 32.3

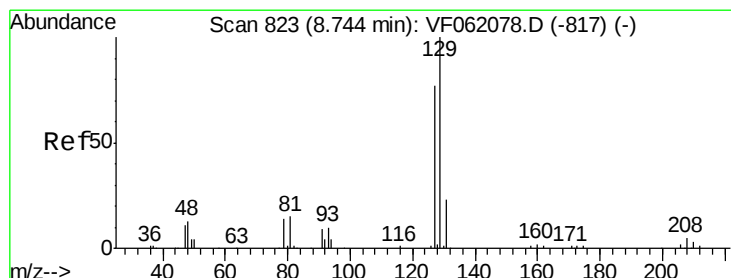
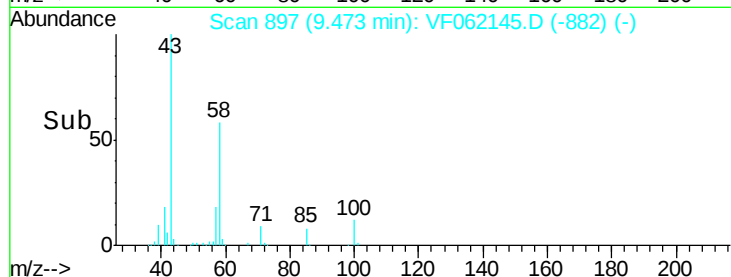
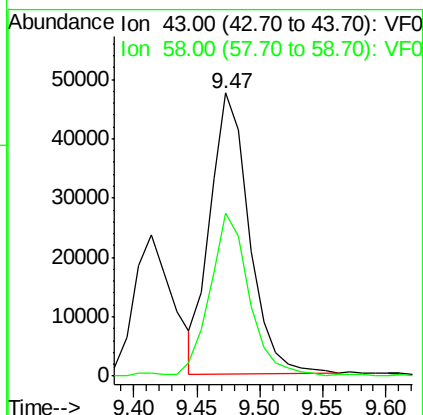
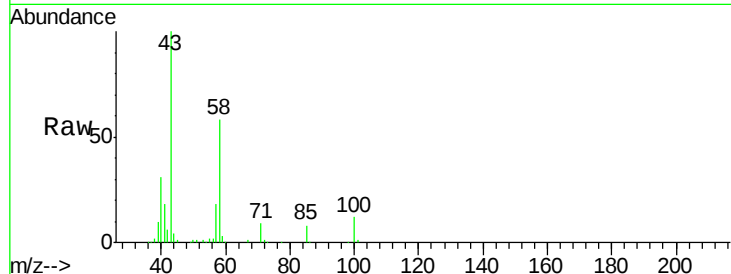




#59
2-Hexanone
Concen: 109.983 ug/l
RT: 9.47 min Scan# 897
Delta R.T. -0.05 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

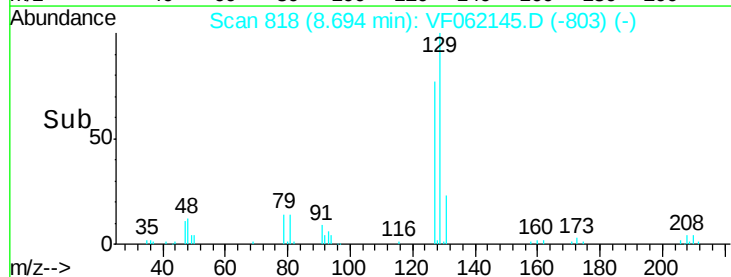
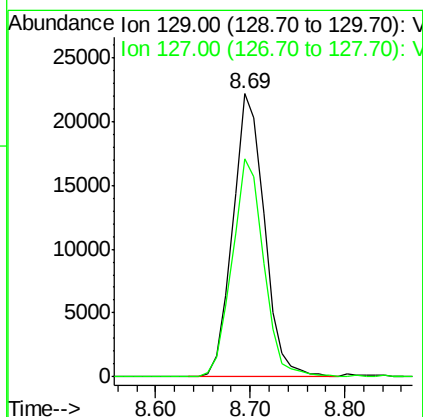
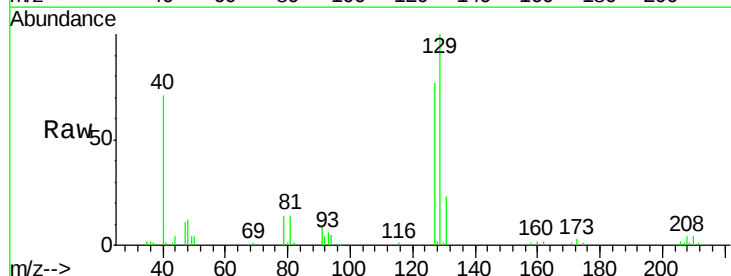
Instrument :
MSVOA_F
ClientSampleId :
VF0326SBSD01

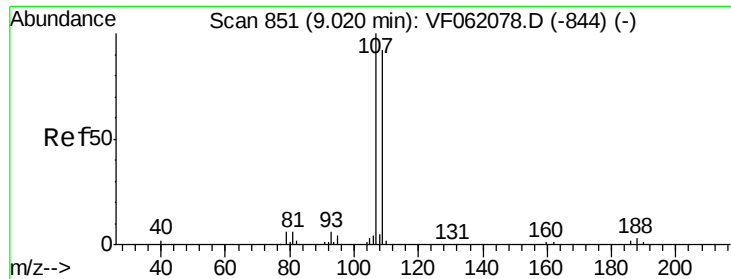
Tot Ion: 43 Resp: 102138
Ion Ratio Lower Upper
43 100
58 57.5 28.8 86.4



#60
Dibromochloromethane
Concen: 23.342 ug/l
RT: 8.69 min Scan# 818
Delta R.T. -0.05 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Tgt Ion: 129 Resp: 51193
Ion Ratio Lower Upper
129 100
127 77.0 38.7 116.1





#61

1,2-Dibromoethane

Concen: 23.364 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

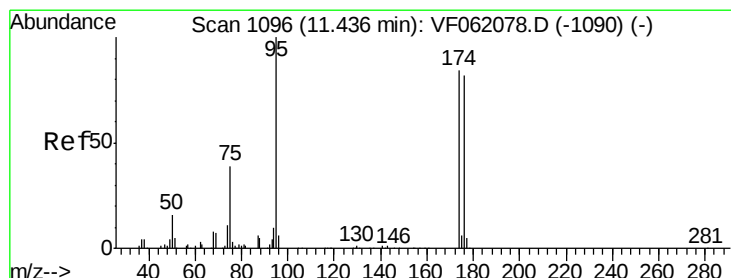
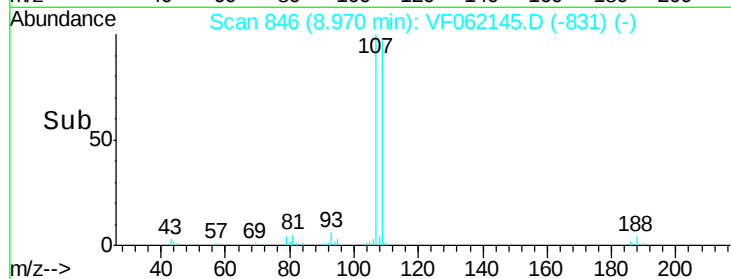
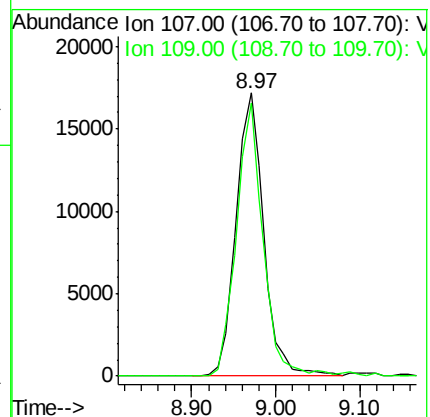
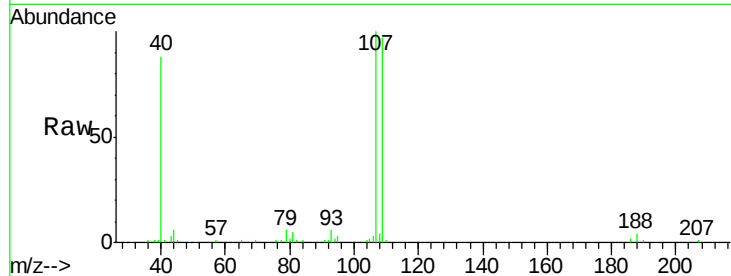
VF0326SBS01

Tot Ion:107 Resp: 39324

Ion Ratio Lower Upper

107 100

109 96.6 73.4 110.0



#62

4-Bromofluorobenzene

Concen: 49.228 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

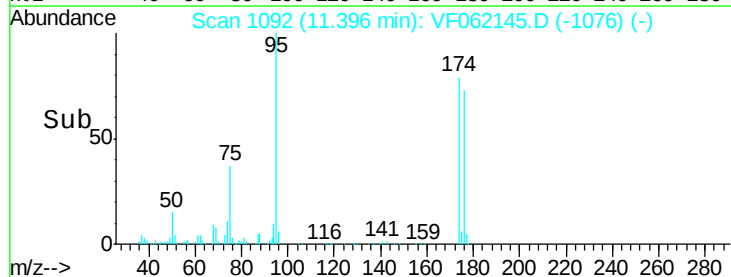
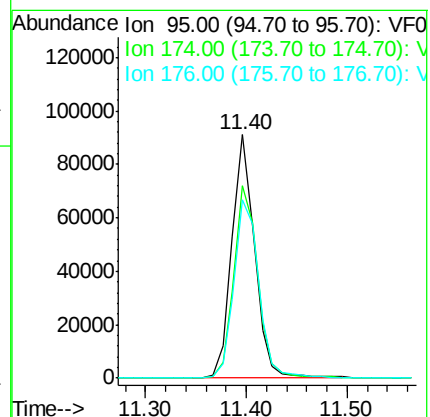
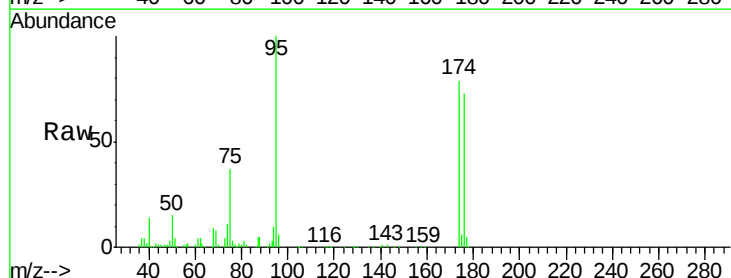
Tgt Ion: 95 Resp: 144111

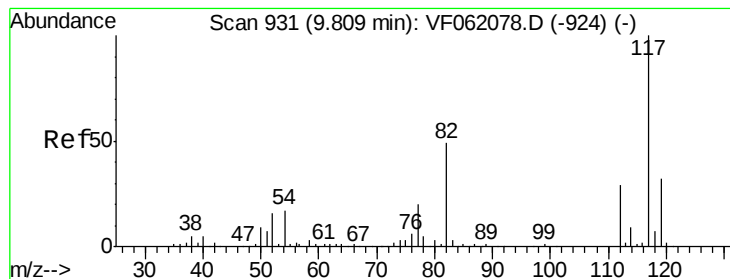
Ion Ratio Lower Upper

95 100

174 78.9 0.0 168.2

176 73.4 0.0 164.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

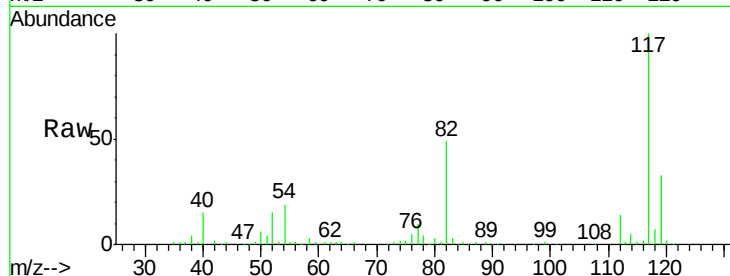
Tot Ion:117 Resp: 328474

Ion Ratio Lower Upper

117 100

82 49.3 39.2 58.8

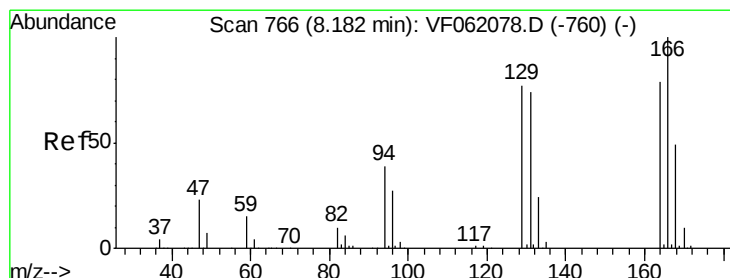
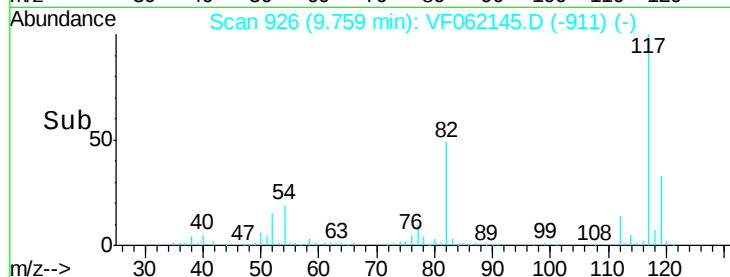
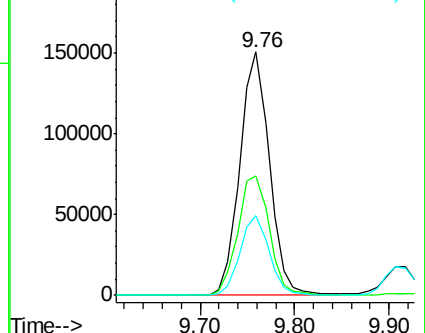
119 32.7 25.4 38.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 23.153 ug/l

RT: 8.13 min Scan# 761

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Tgt Ion:164 Resp: 58757

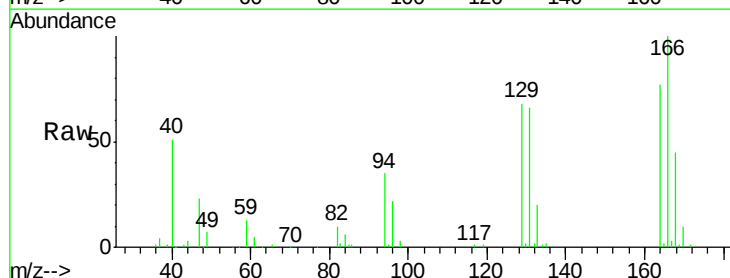
Ion Ratio Lower Upper

164 100

166 129.8 100.9 151.3

129 88.6 77.9 116.9

131 86.0 74.6 112.0

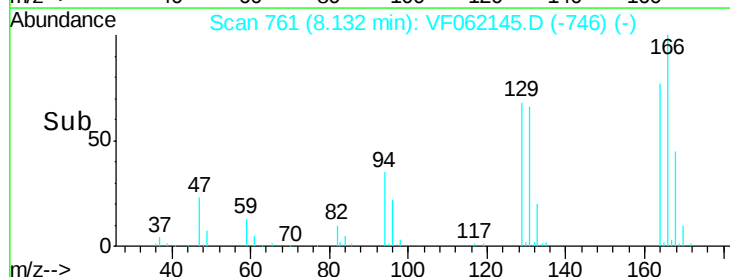
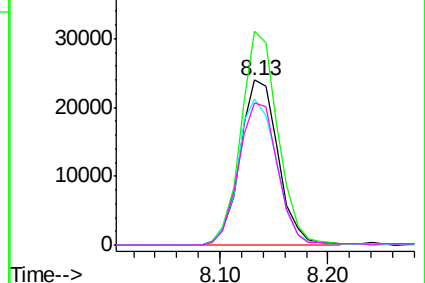


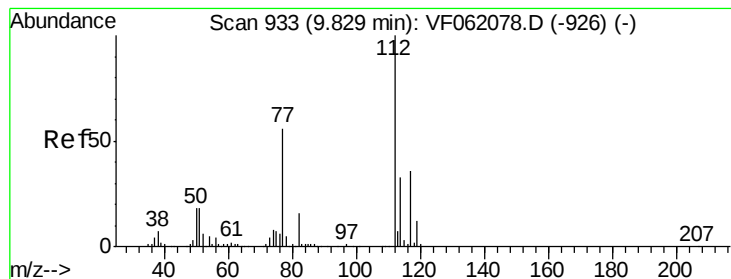
Abundance Ion 163.85 (163.55 to 164.55): V

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: 23.036 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

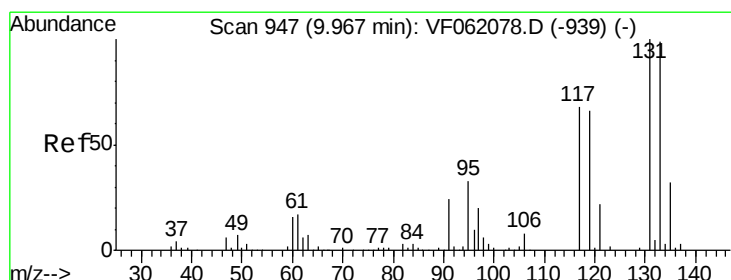
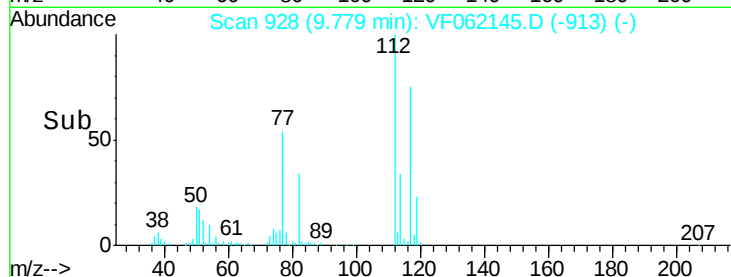
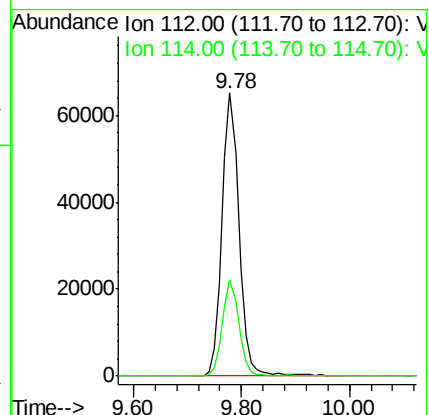
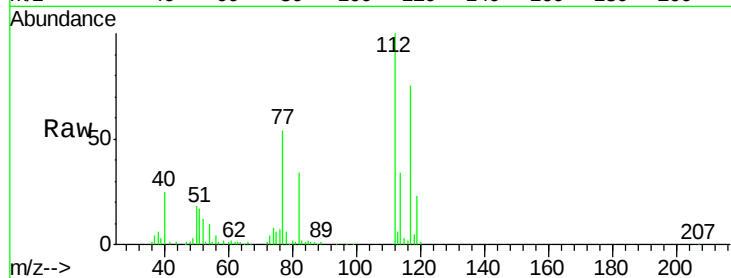
VF0326SBS01

Tot Ion:112 Resp: 141579

Ion Ratio Lower Upper

112 100

114 34.3 26.0 39.0



#66

1,1,1,2-Tetrachloroethane

Concen: 22.838 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.06 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

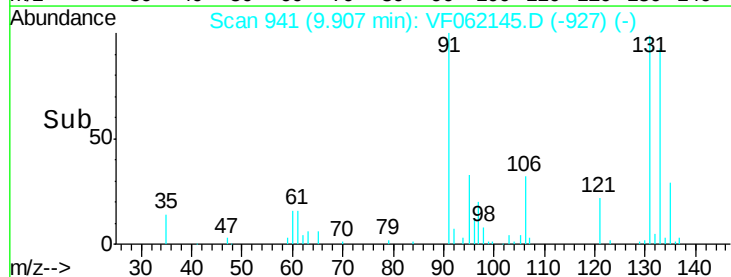
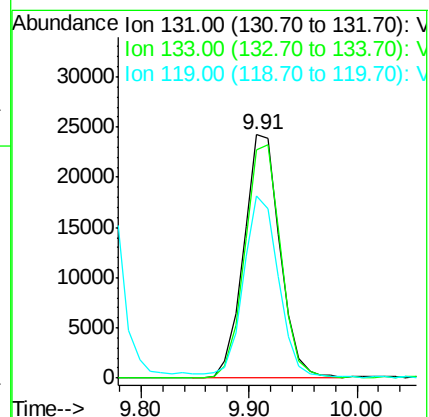
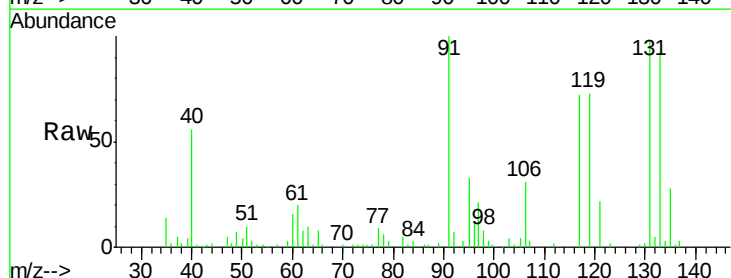
Tgt Ion:131 Resp: 56382

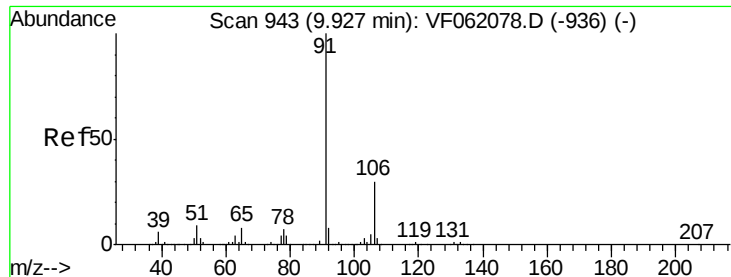
Ion Ratio Lower Upper

131 100

133 93.9 49.3 147.8

119 74.6 33.5 100.4





#67

Ethyl Benzene

Concen: 22.960 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.05 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

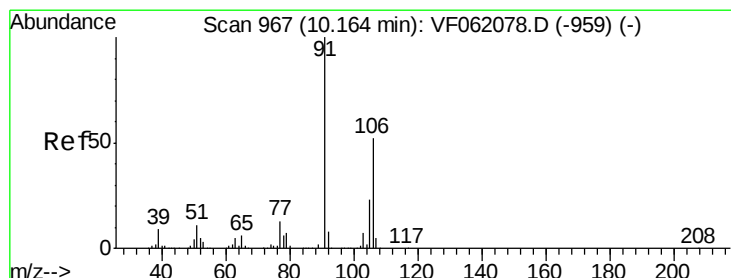
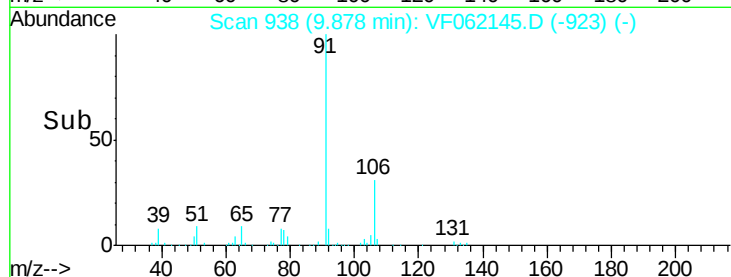
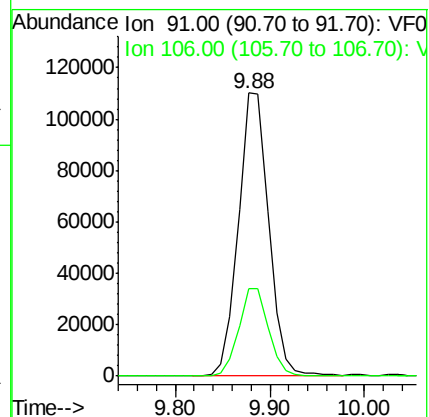
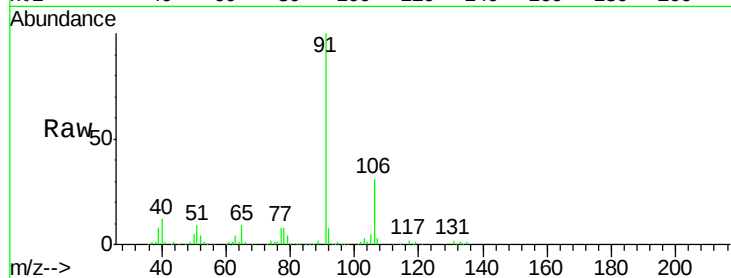
VF0326SBSD01

Tot Ion: 91 Resp: 245406

Ion Ratio Lower Upper

91 100

106 31.1 24.0 36.0



#68

m/p-Xylenes

Concen: 48.359 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.05 min

Lab File: VF062145.D

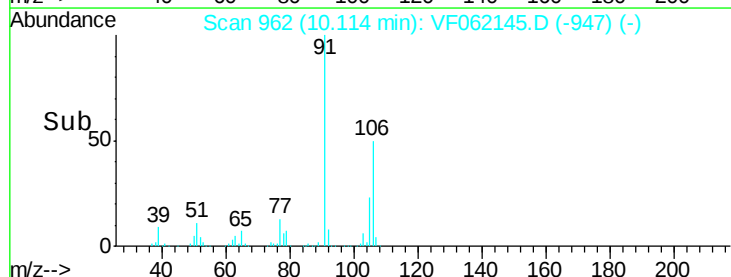
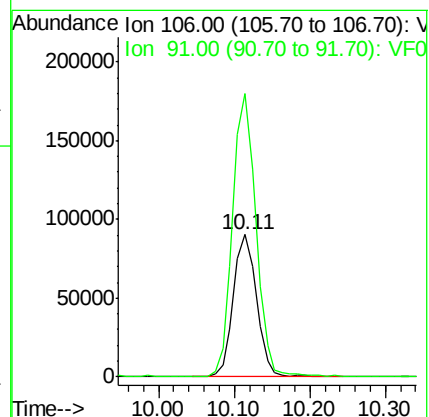
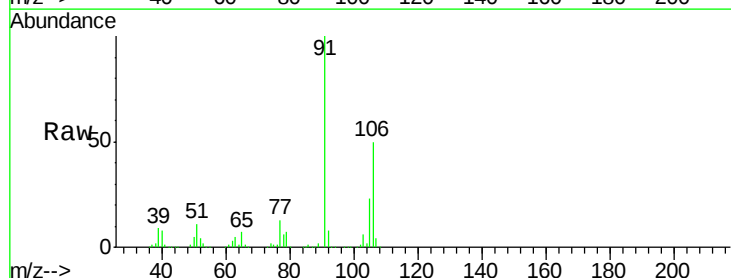
Acq: 26 Mar 2019 14:51

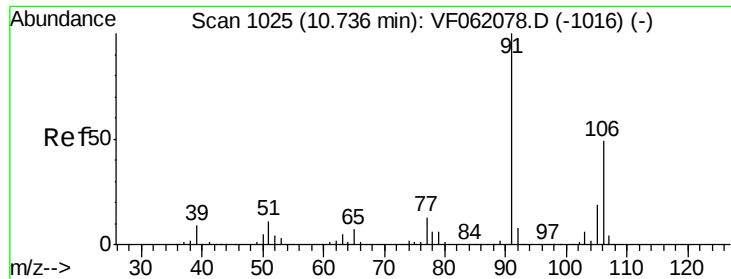
Tgt Ion: 106 Resp: 193190

Ion Ratio Lower Upper

106 100

91 199.3 154.4 231.6

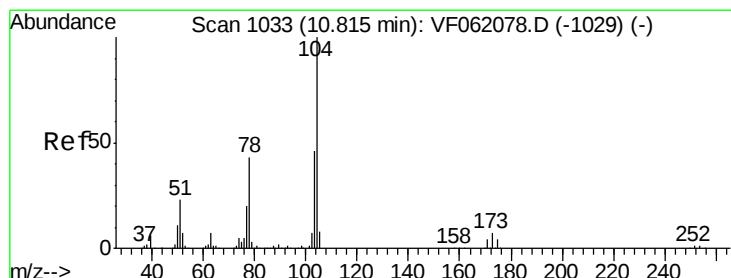
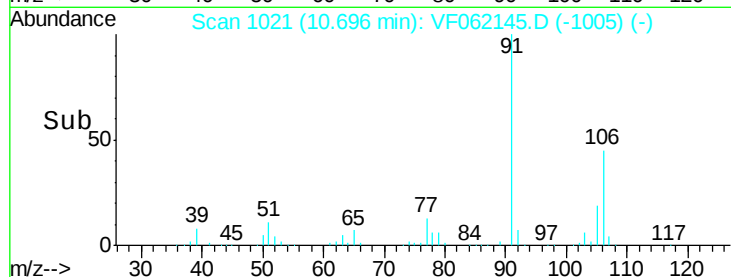
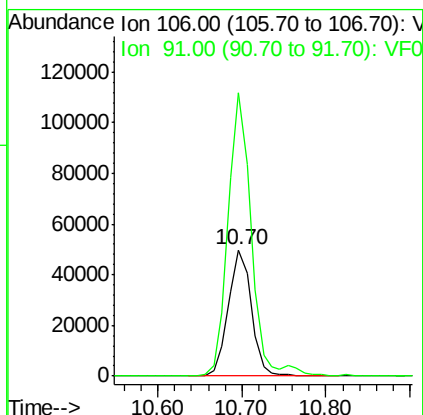
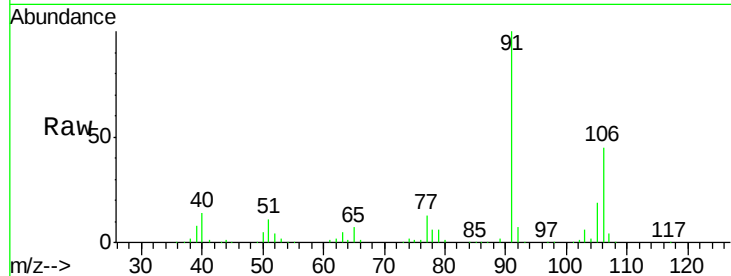




#69
o-Xylene
Concen: 22.913 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.04 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

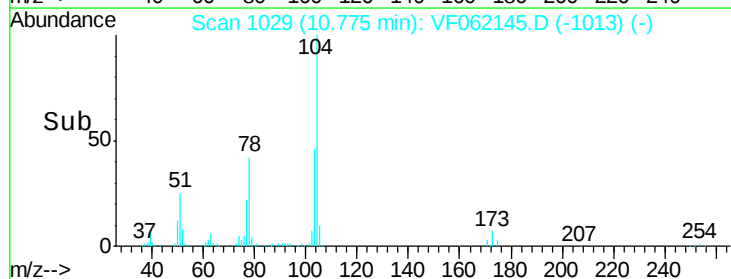
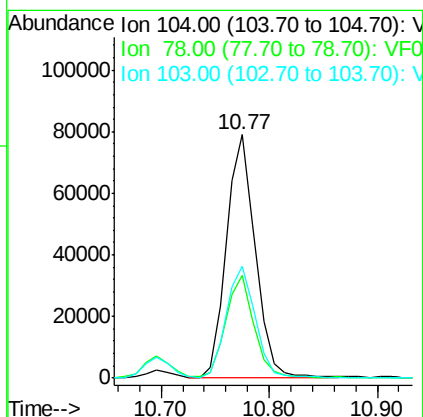
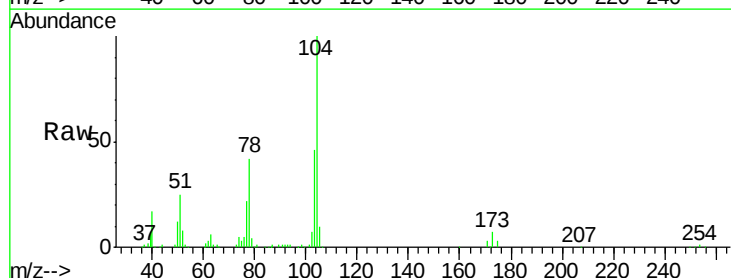
Instrument :
MSVOA_F
ClientSampleId :
VF0326SBSD01

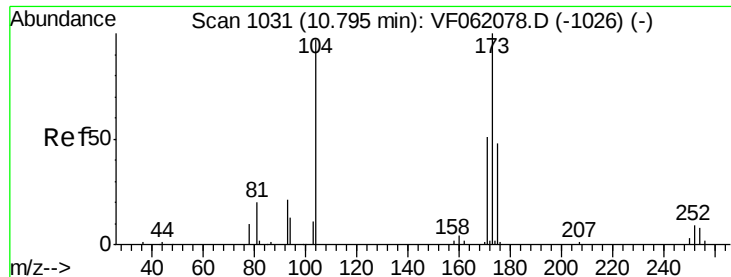
Tot Ion:106 Resp: 95867
Ion Ratio Lower Upper
106 100
91 223.7 102.6 307.8



#70
Styrene
Concen: 22.928 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.04 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Tgt Ion:104 Resp: 145349
Ion Ratio Lower Upper
104 100
78 42.2 34.3 51.5
103 46.0 36.9 55.3





#71

Bromoform

Concen: 21.922 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

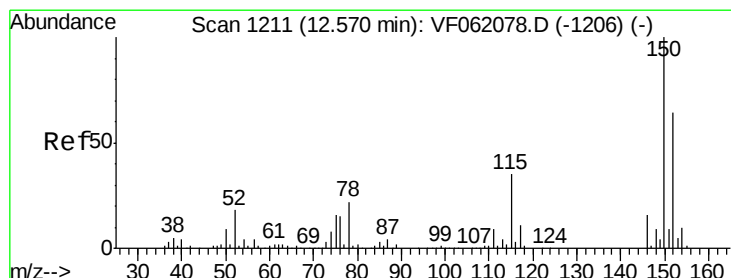
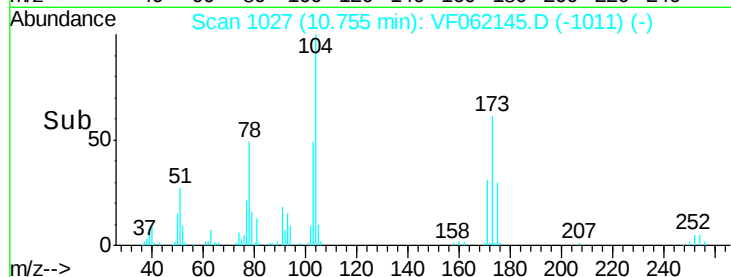
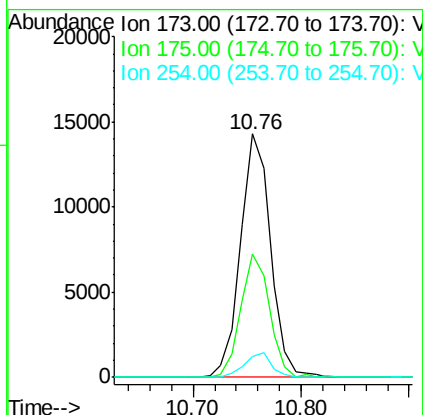
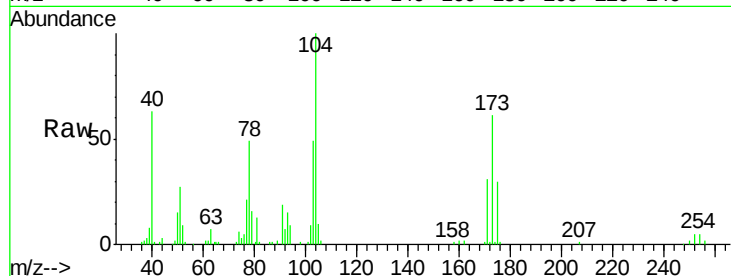
Tot Ion:173 Resp: 27682

Ion Ratio Lower Upper

173 100

175 50.4 24.1 72.4

254 8.8 6.2 9.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

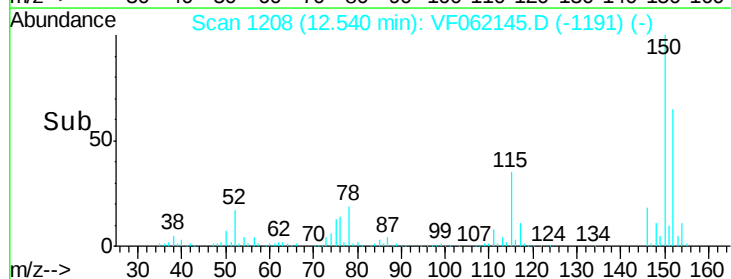
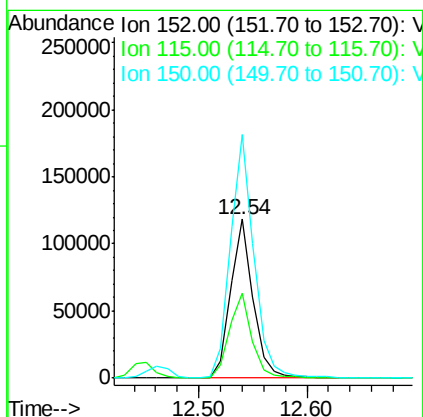
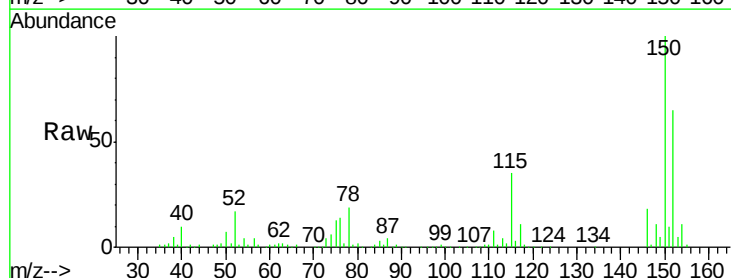
Tgt Ion:152 Resp: 172447

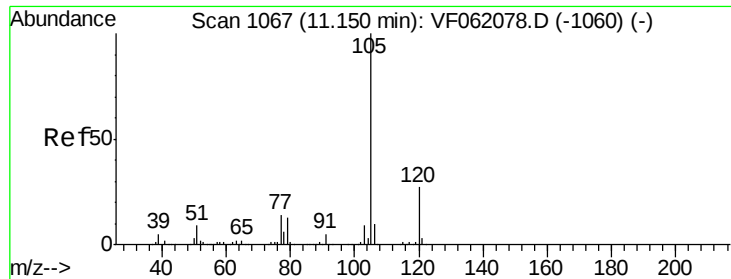
Ion Ratio Lower Upper

152 100

115 53.5 27.7 83.1

150 153.2 0.0 313.2





#73

Isopropylbenzene

Concen: 23.813 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

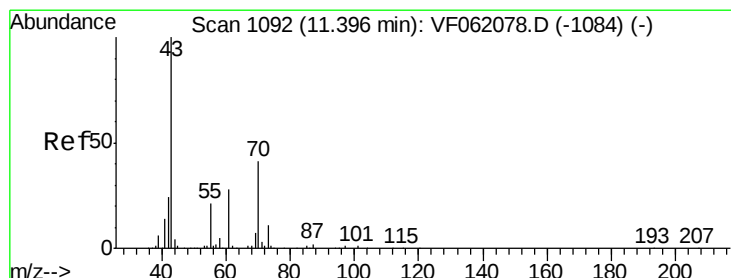
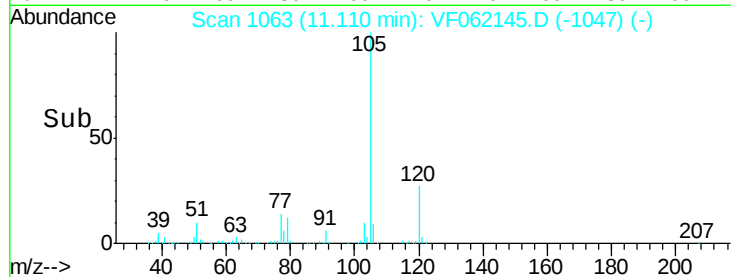
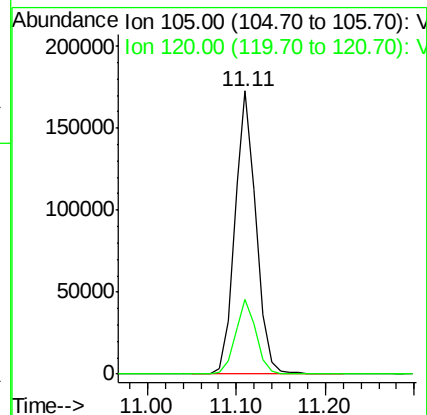
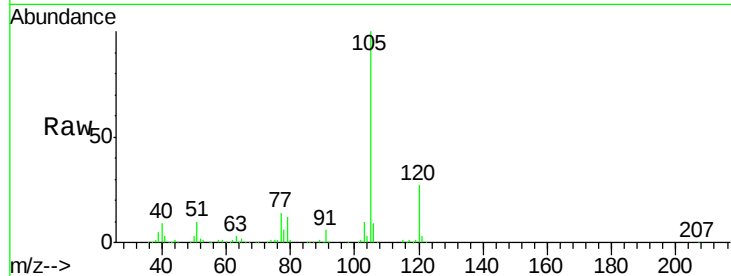
VF0326SBS01

Tot Ion:105 Resp: 288957

Ion Ratio Lower Upper

105 100

120 26.6 13.8 41.3



#74

N-ethyl acetate

Concen: 22.891 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Tgt Ion: 43 Resp: 66186

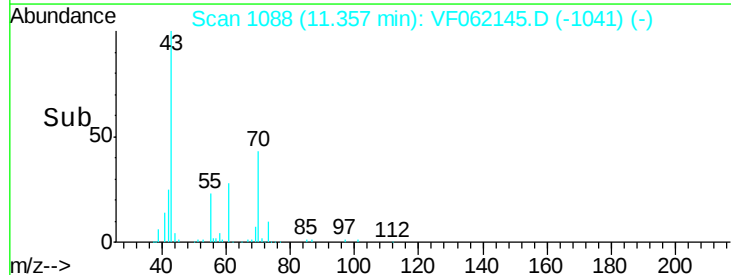
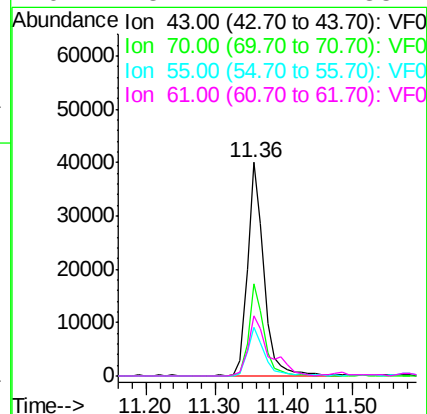
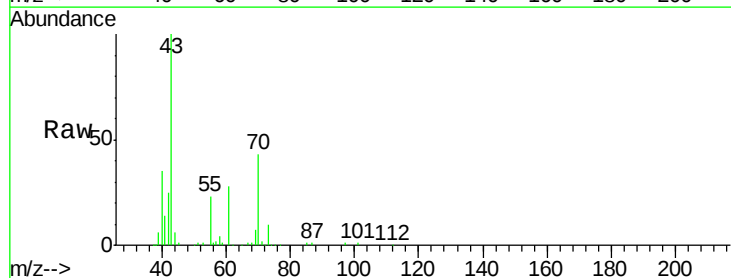
Ion Ratio Lower Upper

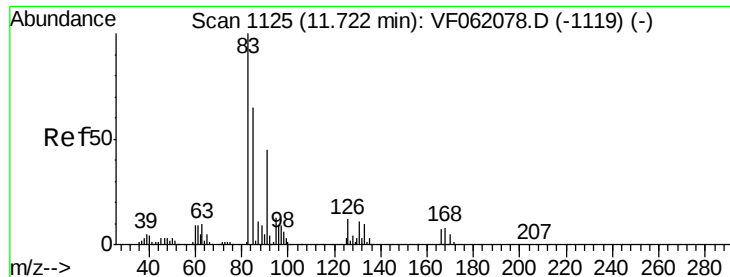
43 100

70 42.9 32.9 49.3

55 23.0 17.1 25.7

61 28.1 22.2 33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.096 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

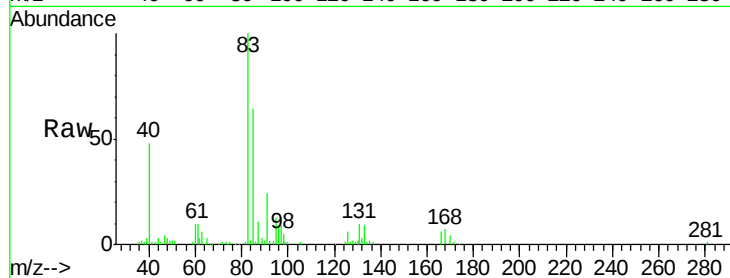
Tot Ion: 83 Resp: 43954

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.3	15.8
85	64.0	32.6	98.0

83 100

131 9.8 5.3 15.8

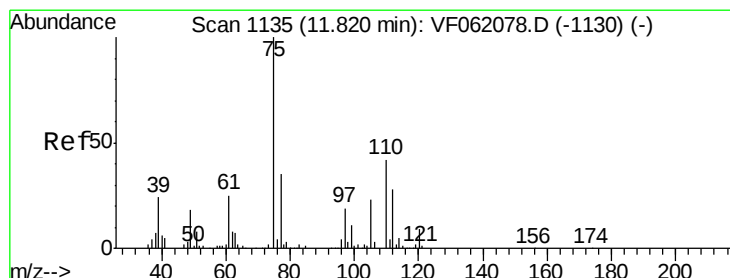
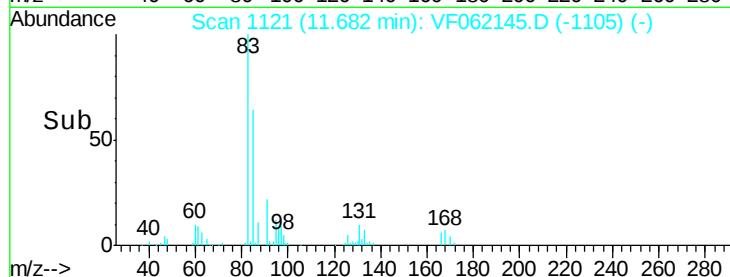
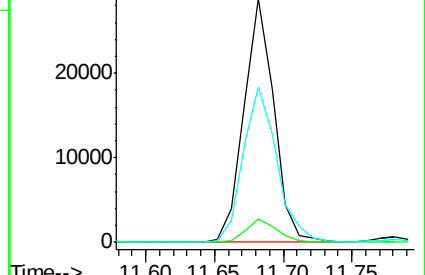
85 64.0 32.6 98.0



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 12.064 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. 0.04 min

Lab File: VF062145.D

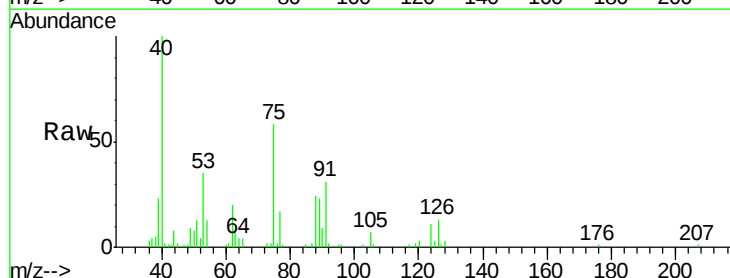
Acq: 26 Mar 2019 14:51

Tgt Ion: 75 Resp: 17689

Ion	Ratio	Lower	Upper
75	100		
77	28.6	17.8	53.3

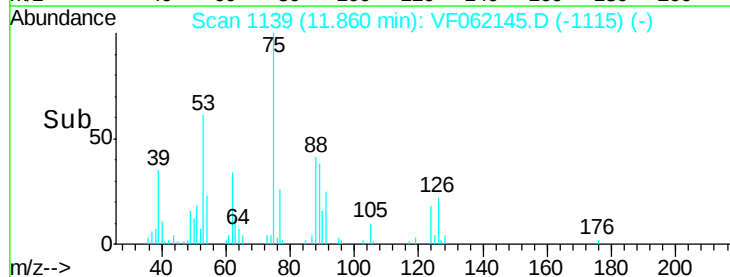
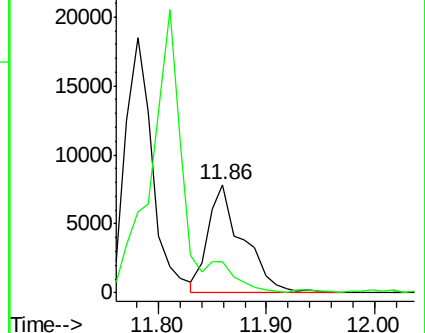
75 100

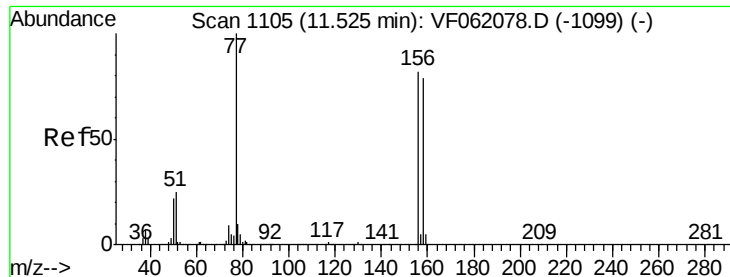
77 28.6 17.8 53.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 22.508 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

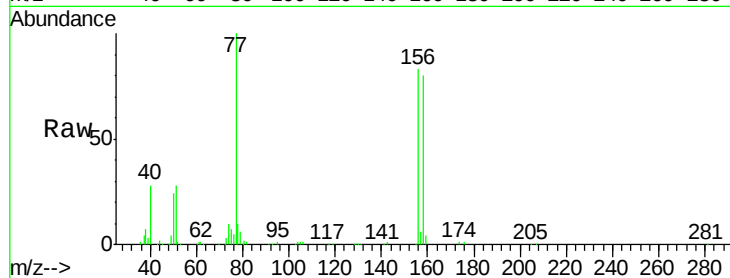
Tot Ion:156 Resp: 66727

Ion Ratio Lower Upper

156 100

77 120.1 61.3 183.9

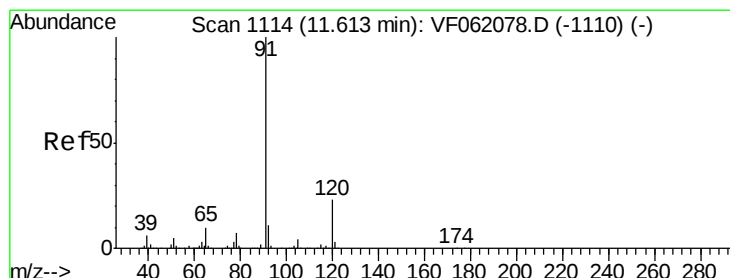
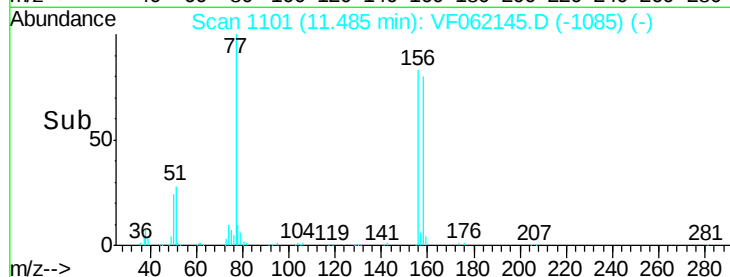
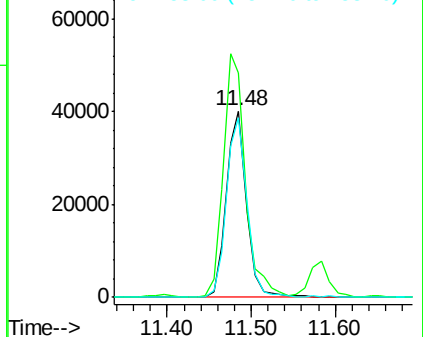
158 96.4 48.6 145.9



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: 24.020 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.03 min

Lab File: VF062145.D

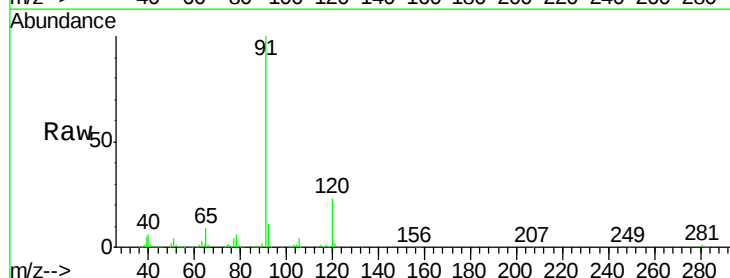
Acq: 26 Mar 2019 14:51

Tgt Ion: 91 Resp: 338455

Ion Ratio Lower Upper

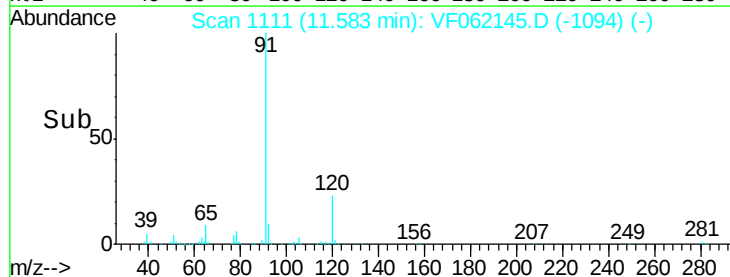
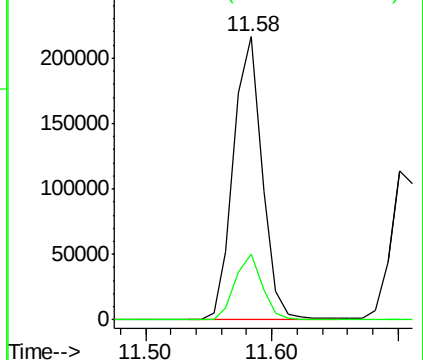
91 100

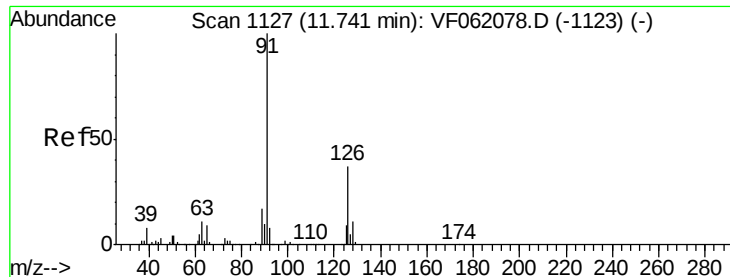
120 23.2 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.668 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.04 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

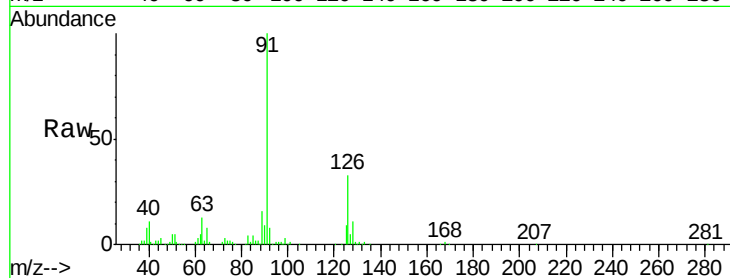
VF0326SBSD01

Tot Ion: 91 Resp: 185359

Ion Ratio Lower Upper

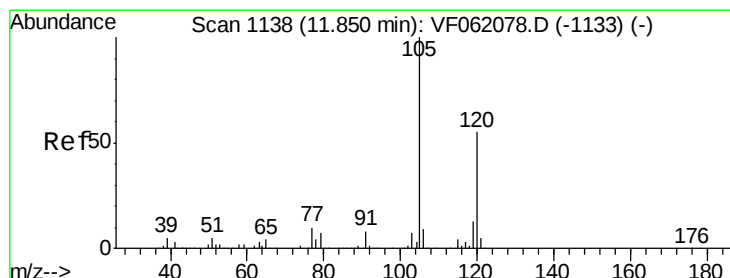
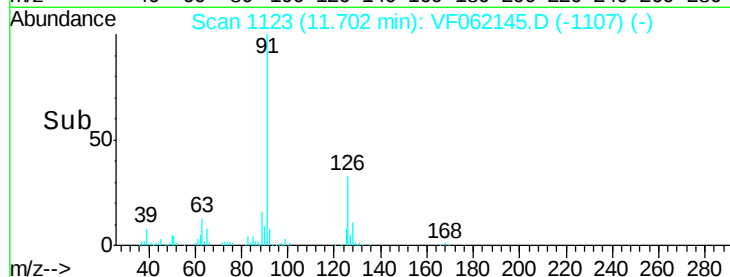
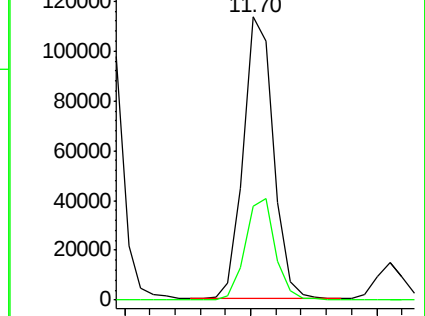
91 100

126 33.3 18.3 54.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 23.147 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.04 min

Lab File: VF062145.D

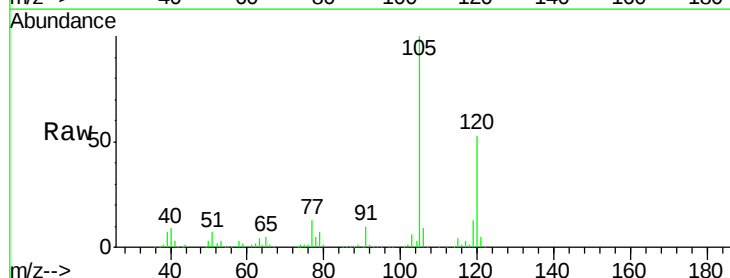
Acq: 26 Mar 2019 14:51

Tgt Ion:105 Resp: 231030

Ion Ratio Lower Upper

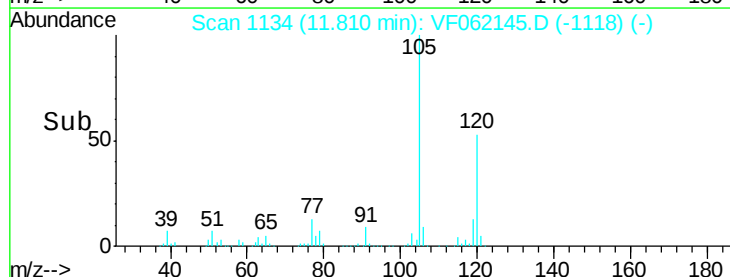
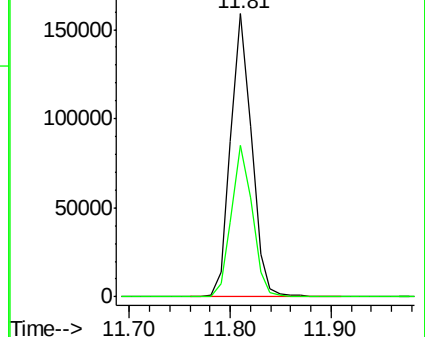
105 100

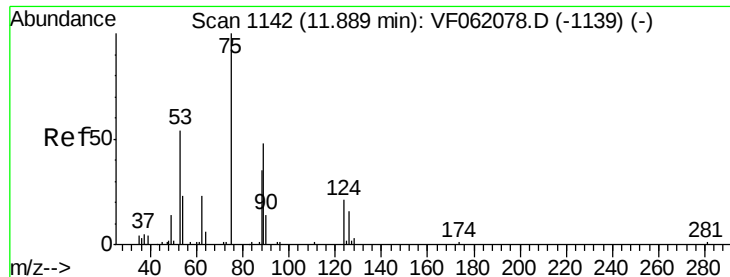
120 53.5 27.8 83.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 29.606 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

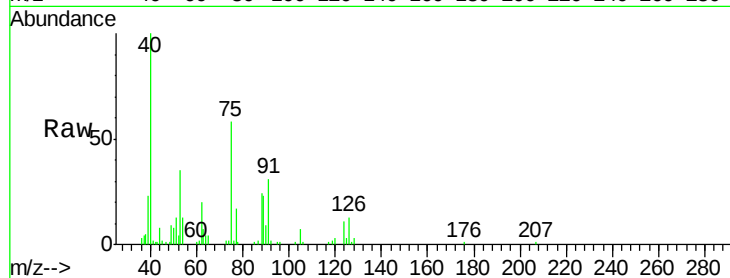
Tot Ion: 75 Resp: 17689

Ion Ratio Lower Upper

75 100

53 60.7 49.4 74.0

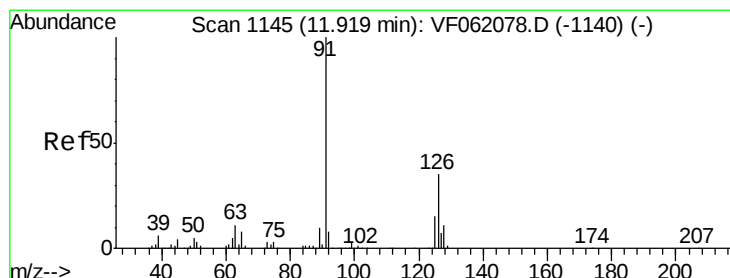
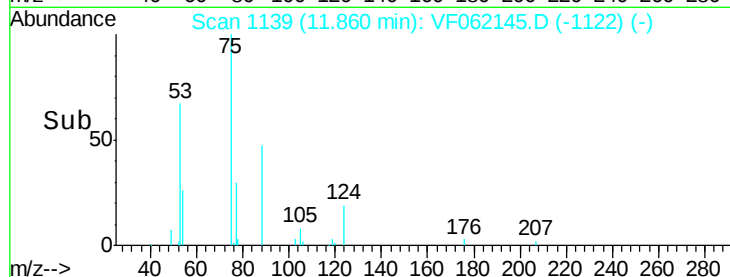
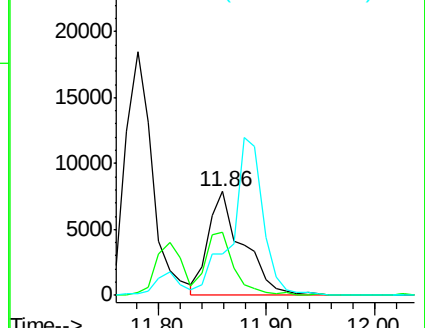
89 39.5 40.6 60.8#



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: 22.902 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.03 min

Lab File: VF062145.D

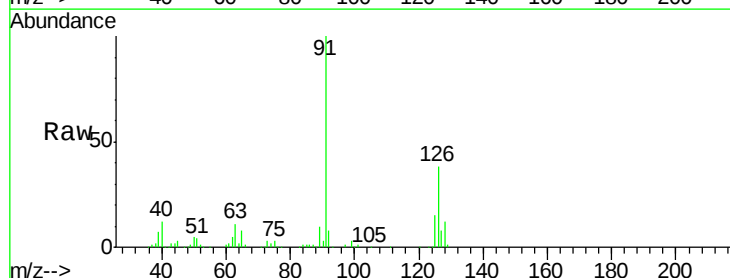
Acq: 26 Mar 2019 14:51

Tgt Ion: 91 Resp: 183906

Ion Ratio Lower Upper

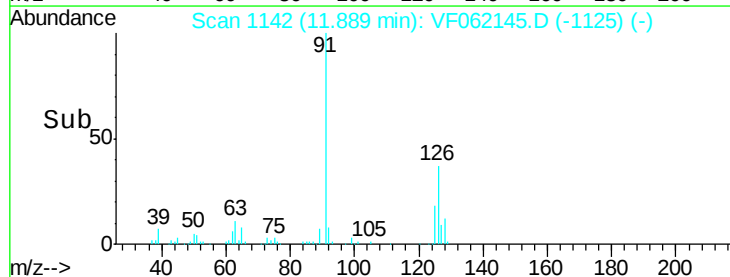
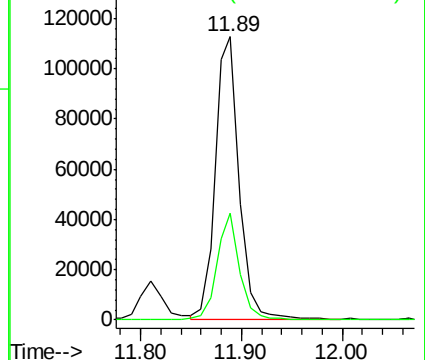
91 100

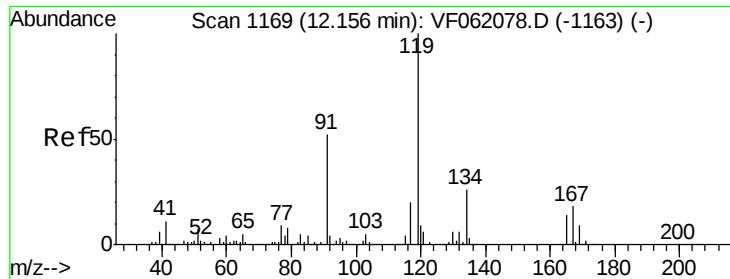
126 37.8 17.2 51.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

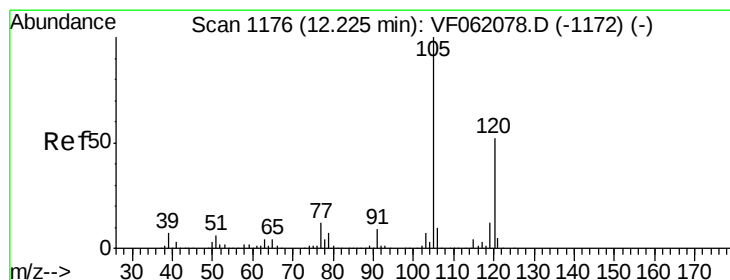
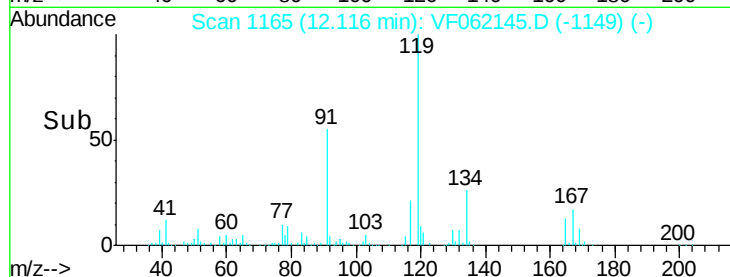
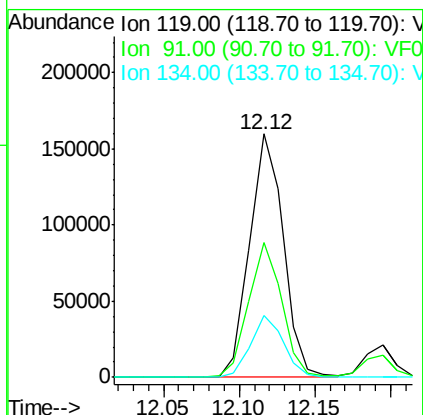
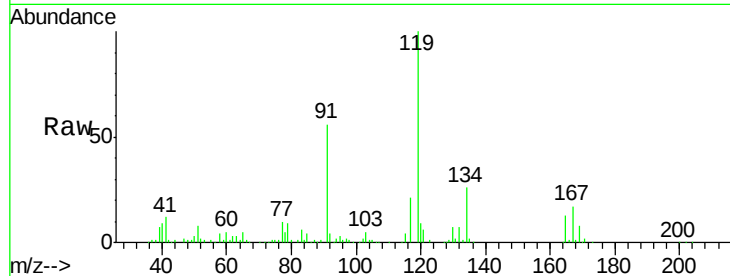




#83
 tert-Butylbenzene
 Concen: 23.876 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.04 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

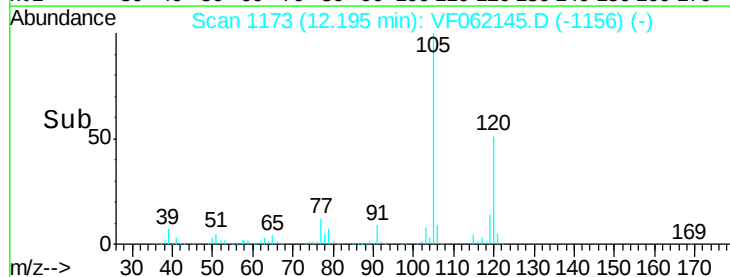
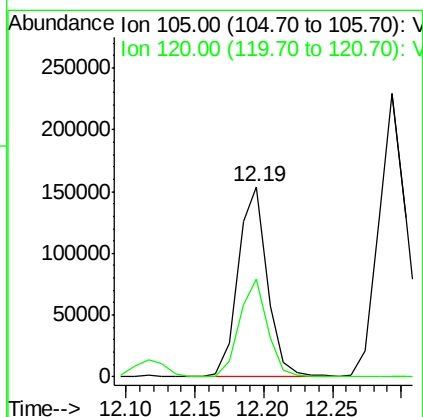
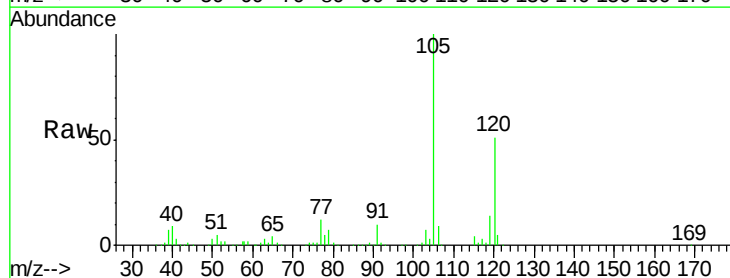
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0326SBS01

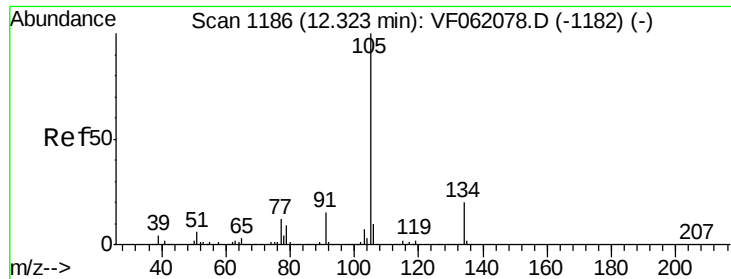
Tot Ion:119 Resp: 249466
 Ion Ratio Lower Upper
 119 100
 91 55.6 26.1 78.2
 134 25.6 12.8 38.4



#84
 1,2,4-Trimethylbenzene
 Concen: 23.290 ug/l
 RT: 12.19 min Scan# 1173
 Delta R.T. -0.03 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Tgt Ion:105 Resp: 227888
 Ion Ratio Lower Upper
 105 100
 120 51.2 26.1 78.2





#85

sec-Butylbenzene

Concen: 23.922 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

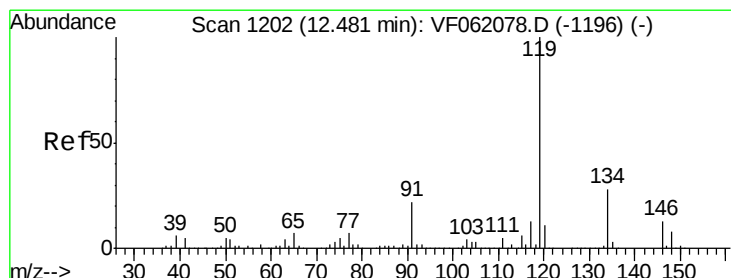
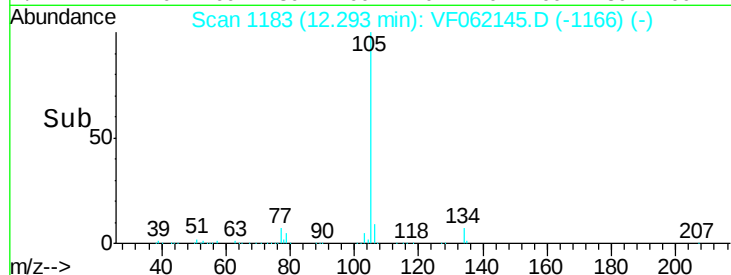
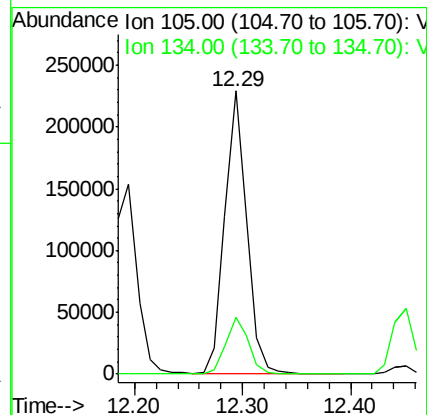
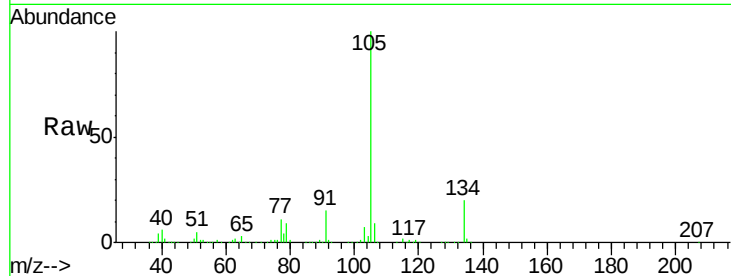
VF0326SBSD01

Tot Ion:105 Resp: 323349

Ion Ratio Lower Upper

105 100

134 20.2 10.2 30.4



#86

p-Isopropyltoluene

Concen: 24.054 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

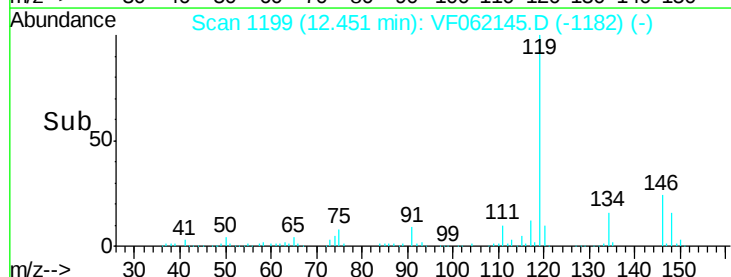
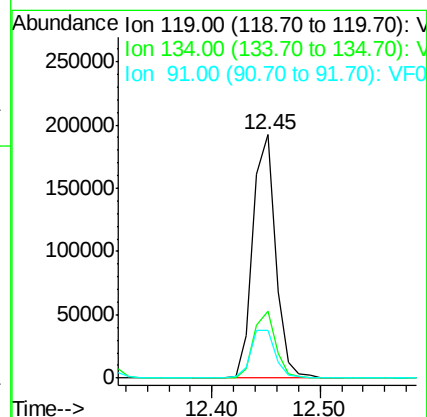
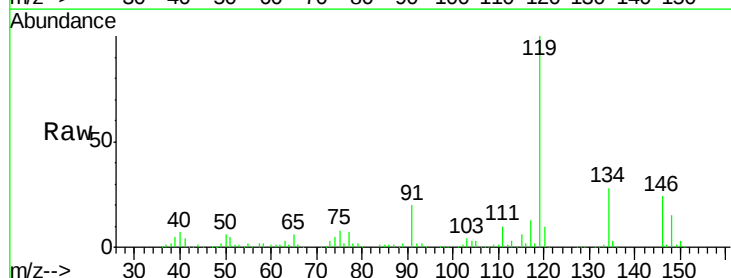
Tgt Ion:119 Resp: 281686

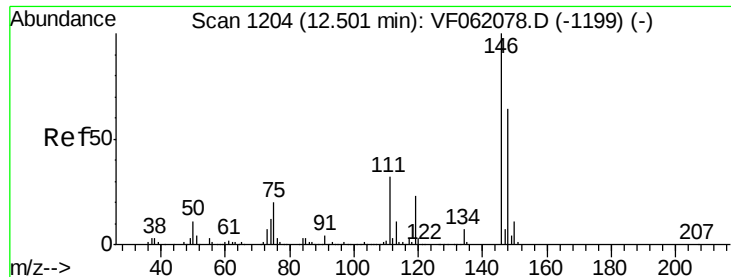
Ion Ratio Lower Upper

119 100

134 27.7 14.0 42.0

91 19.6 10.8 32.4

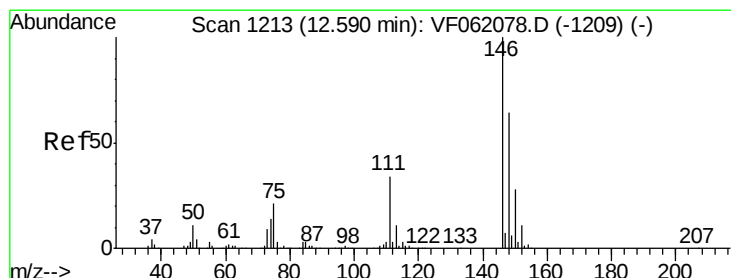
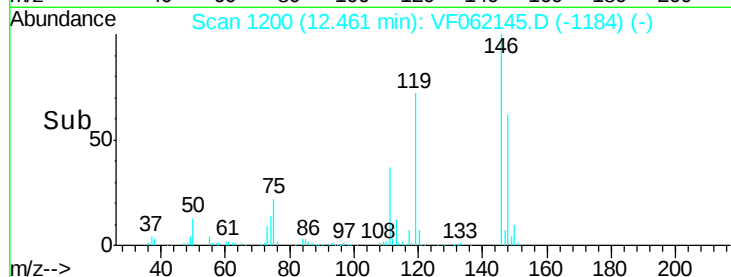
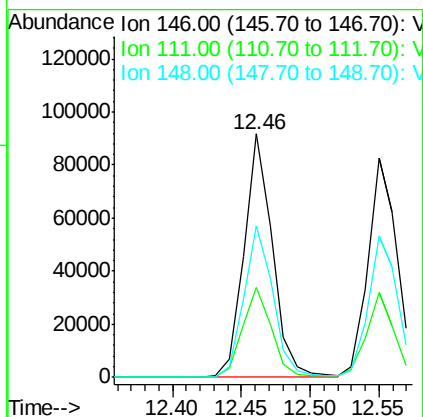
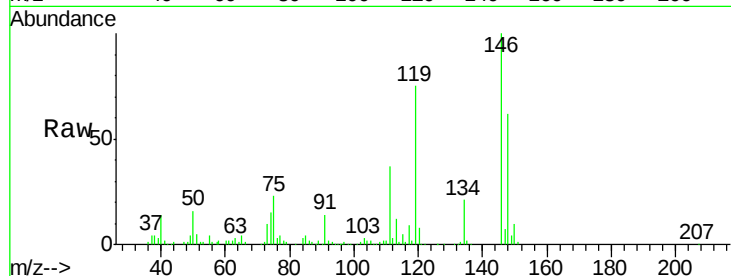




#87
 1,3-Dichlorobenzene
 Concen: 24.057 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.04 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

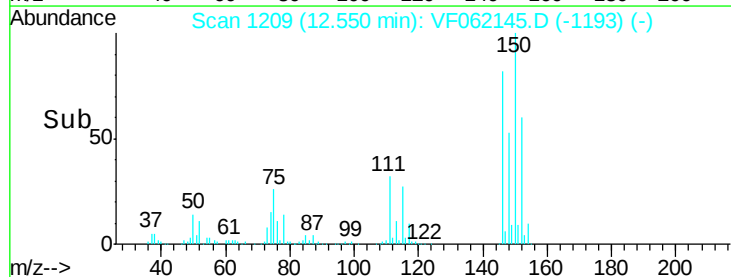
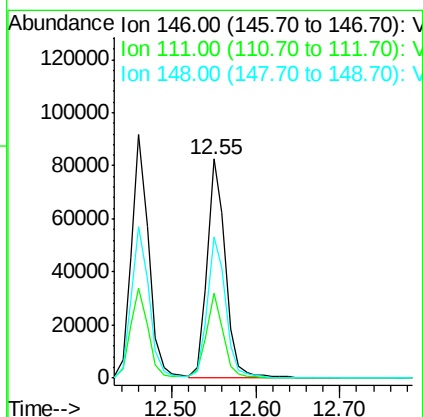
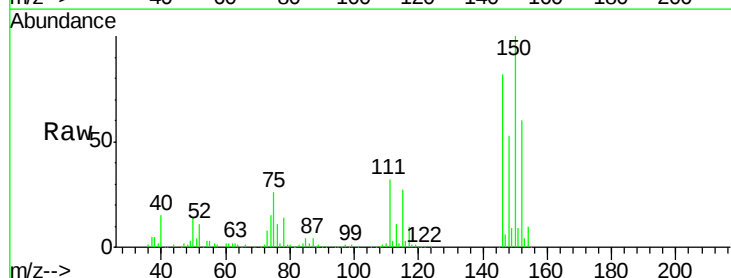
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0326SBS01

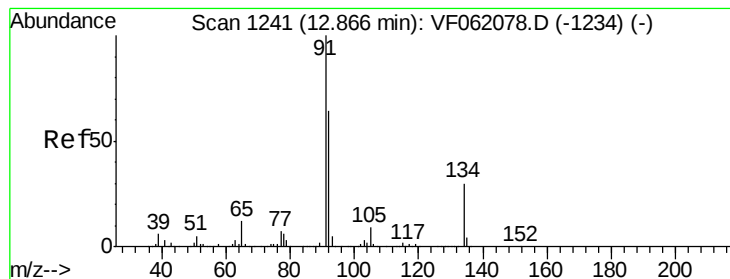
Tot Ion:146 Resp: 132505
 Ion Ratio Lower Upper
 146 100
 111 37.0 16.1 48.3
 148 62.3 31.9 95.7



#88
 1,4-Dichlorobenzene
 Concen: 23.178 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.04 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Tgt Ion:146 Resp: 124571
 Ion Ratio Lower Upper
 146 100
 111 38.7 16.9 50.6
 148 64.3 31.9 95.7





#89

n-Butylbenzene

Concen: 24.292 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBS01

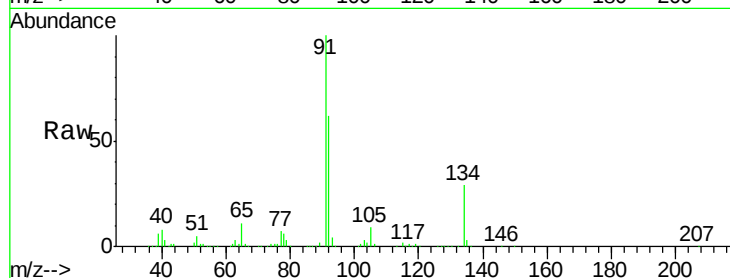
Tot Ion: 91 Resp: 271403

Ion Ratio Lower Upper

91 100

92 61.9 31.9 95.5

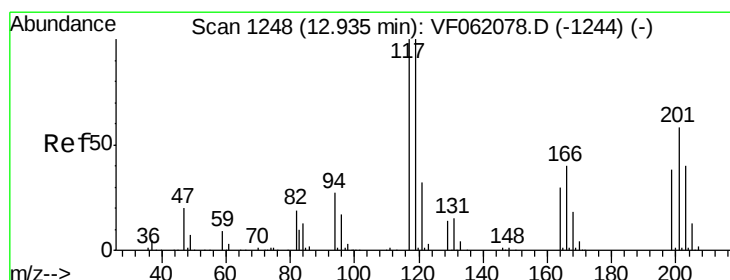
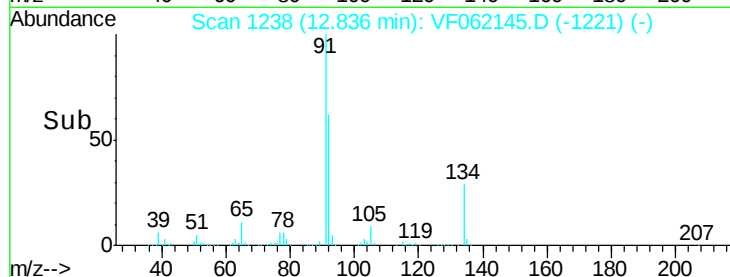
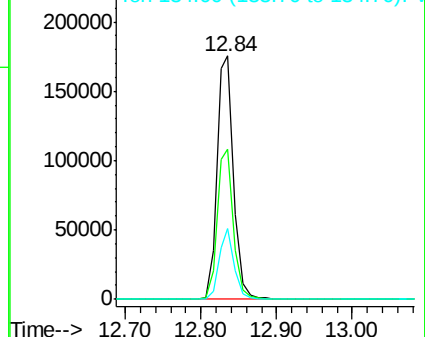
134 29.0 14.9 44.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 23.576 ug/l

RT: 12.90 min Scan# 1245

Delta R.T. -0.03 min

Lab File: VF062145.D

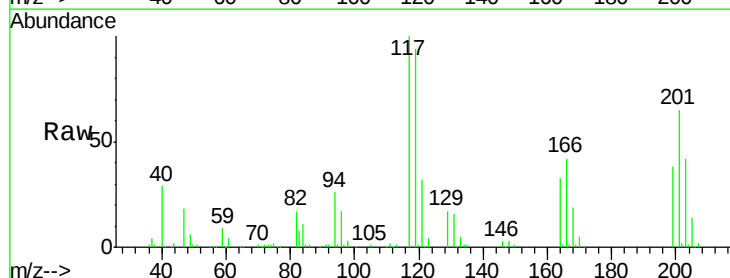
Acq: 26 Mar 2019 14:51

Tgt Ion: 117 Resp: 65741

Ion Ratio Lower Upper

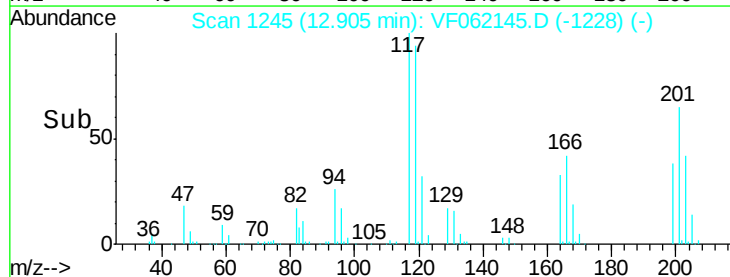
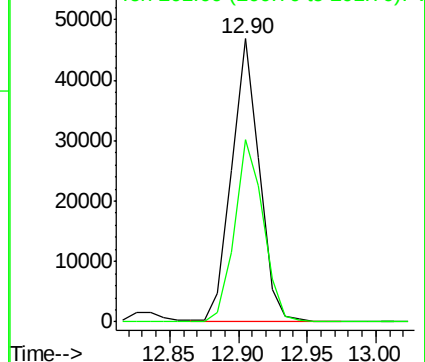
117 100

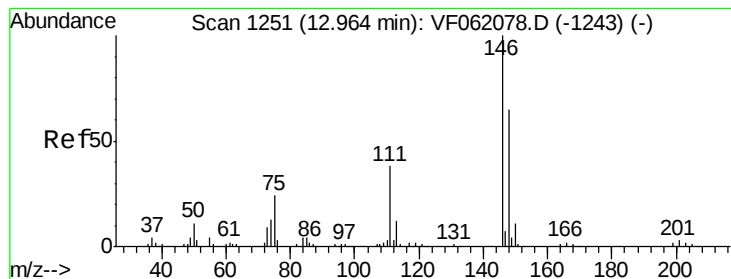
201 64.5 28.7 86.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 23.497 ug/l

RT: 12.93 min Scan# 1248

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0326SBSD01

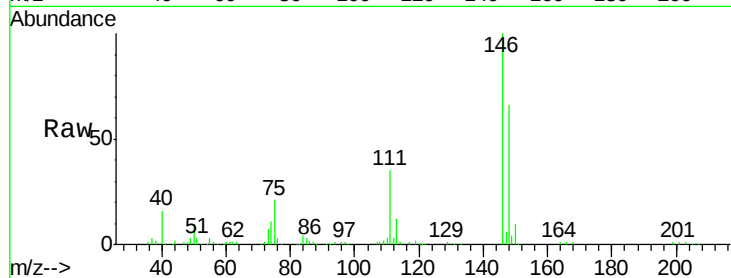
Tot Ion:146 Resp: 121523

Ion Ratio Lower Upper

146 100

111 35.4 19.1 57.3

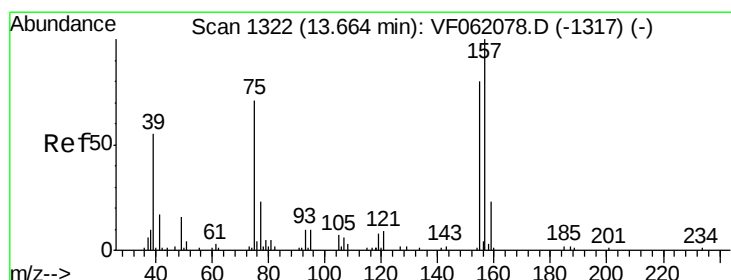
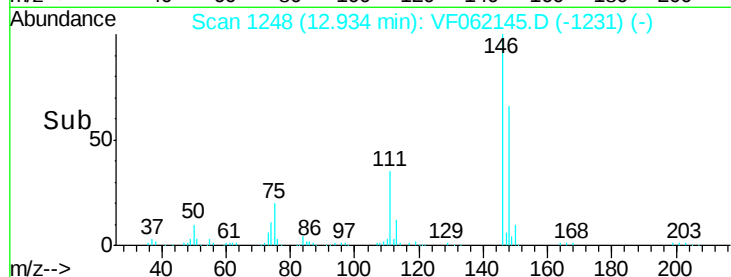
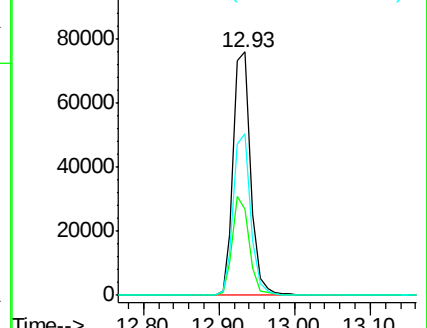
148 66.3 32.8 98.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.386 ug/l

RT: 13.63 min Scan# 1319

Delta R.T. -0.03 min

Lab File: VF062145.D

Acq: 26 Mar 2019 14:51

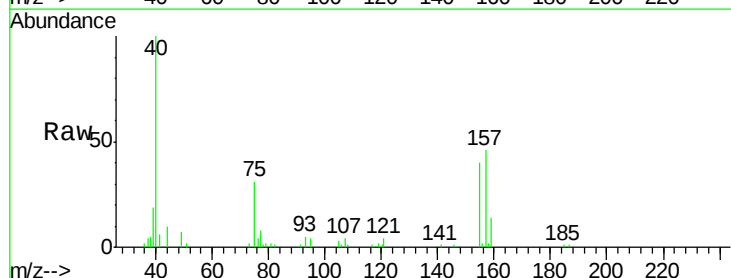
Tgt Ion: 75 Resp: 7067

Ion Ratio Lower Upper

75 100

155 129.0 56.1 168.4

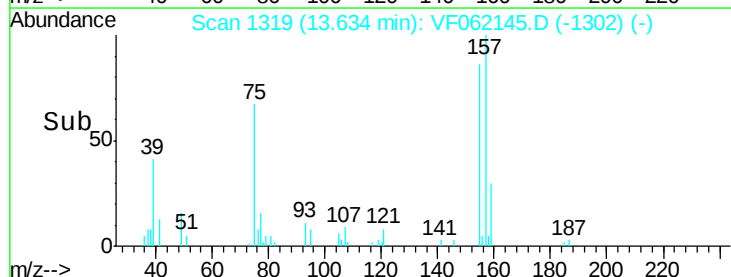
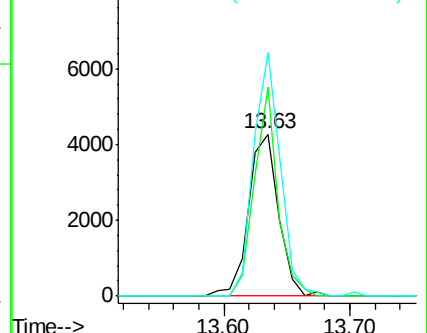
157 150.4 70.4 211.2

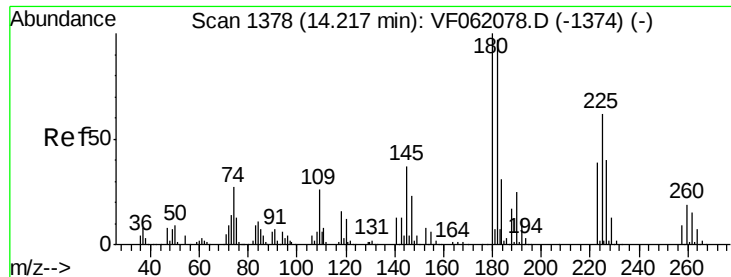


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

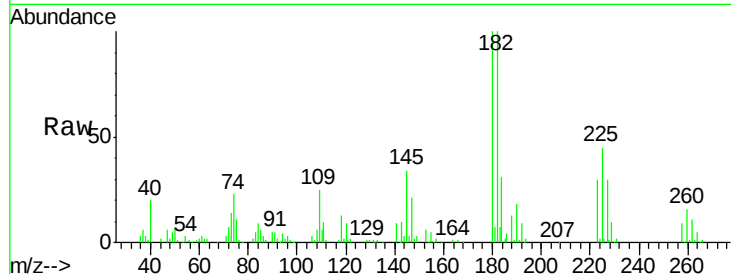




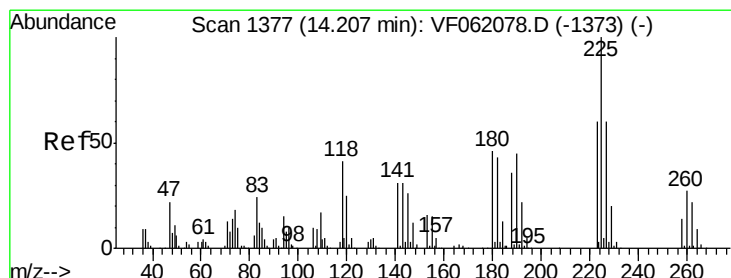
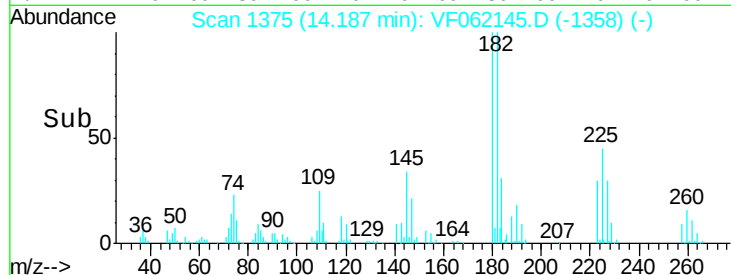
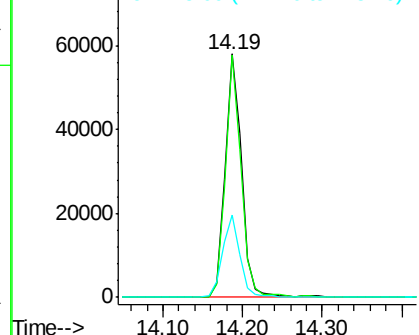
#93
 1,2,4-Trichlorobenzene
 Concen: 23.598 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.03 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0326SBS01

Tot Ion:180 Resp: 85062
 Ion Ratio Lower Upper
 180 100
 182 99.6 48.7 146.1
 145 33.8 18.3 54.8

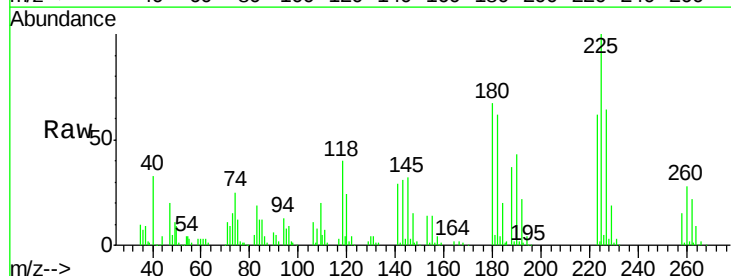


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

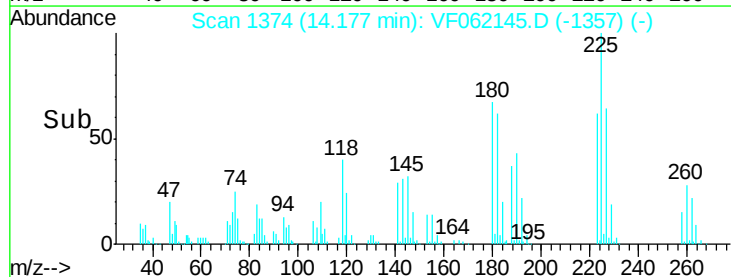
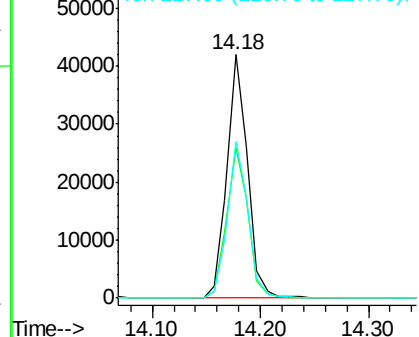


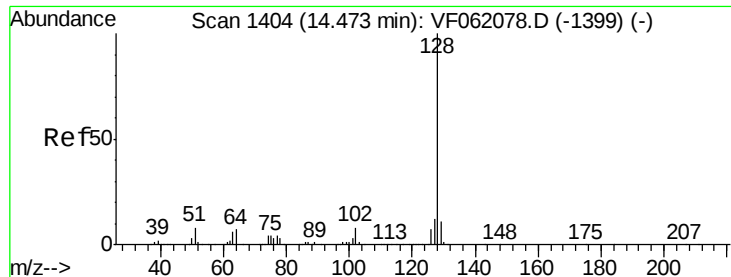
#94
 Hexachlorobutadiene
 Concen: 23.330 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VF062145.D
 Acq: 26 Mar 2019 14:51

Tgt Ion:225 Resp: 55915
 Ion Ratio Lower Upper
 225 100
 223 61.9 30.0 90.0
 227 64.1 30.2 90.6



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V

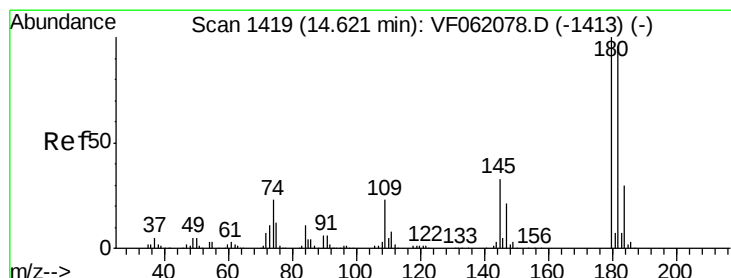
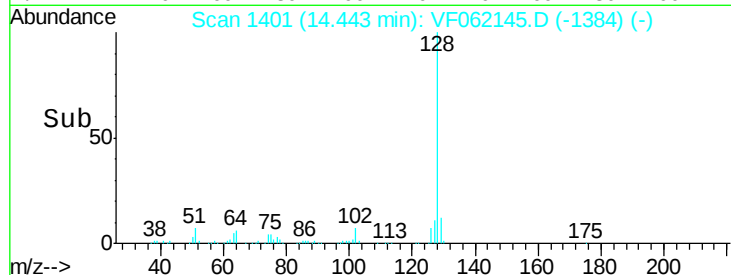
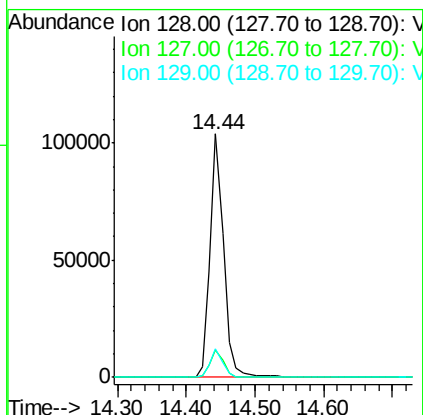
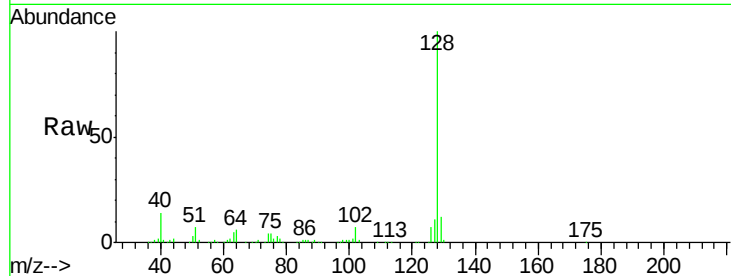




#95
Naphthalene
Concen: 22.619 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0326SBS01

Tot Ion:128 Resp: 142875
Ion Ratio Lower Upper
128 100
127 11.4 9.5 14.3
129 11.7 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 22.666 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.03 min
Lab File: VF062145.D
Acq: 26 Mar 2019 14:51

Tgt Ion:180 Resp: 76477
Ion Ratio Lower Upper
180 100
182 98.8 47.9 143.7
145 31.7 16.6 49.7

