

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF040419\
 Data File : VF062160.D
 Acq On : 4 Apr 2019 16:37
 Operator : FY/SY
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Quant Time: Apr 05 05:08:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F040419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 04:46:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	211823	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.57	114	329601	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.75	117	266358	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	139613	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	46450	26.62	ug/l	0.00
Spiked Amount			Recovery	=	53.24%	
35) Dibromofluoromethane	4.09	113	48699	21.43	ug/l	0.00
Spiked Amount			Recovery	=	42.86%	
50) Toluene-d8	7.52	98	134850	20.03	ug/l	0.00
Spiked Amount			Recovery	=	40.06%	
62) 4-Bromofluorobenzene	11.39	95	54786	20.89	ug/l	0.00
Spiked Amount			Recovery	=	41.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	67833	24.589	ug/l	97
3) Chloromethane	1.08	50	54545	19.567	ug/l #	68
4) Vinyl Chloride	1.13	62	57018	21.958	ug/l	95
5) Bromomethane	1.34	94	43173	22.783	ug/l	93
6) Chloroethane	1.38	64	28643	21.512	ug/l	90
7) Trichlorofluoromethane	1.48	101	76644	23.631	ug/l	97
8) Diethyl Ether	1.63	74	14663	20.365	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.83	101	47523	22.059	ug/l	96
10) Methyl Iodide	1.90	142	84493m	20.702	ug/l	
11) Tert butyl alcohol	2.55	59	9608	107.230	ug/l #	84
12) 1,1-Dichloroethene	1.79	96	45952	22.519	ug/l	84
13) Acrolein	1.99	56	11986	113.363	ug/l	83
14) Allyl chloride	2.08	41	58815	25.802	ug/l	92
15) Acrylonitrile	2.93	53	29363	96.210	ug/l #	92
16) Acetone	2.23	43	45490	127.016	ug/l	98
17) Carbon Disulfide	1.82	76	144174	23.097	ug/l	96
18) Methyl Acetate	2.33	43	19528	23.688	ug/l	92
19) Methyl tert-butyl Ether	2.41	73	81987	24.603	ug/l	97
20) Methylene Chloride	2.17	84	48752m	21.071	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	39368	19.883	ug/l	95
22) Diisopropyl ether	2.78	45	130264	22.256	ug/l	95
23) Vinyl Acetate	3.16	43	304010	124.365	ug/l	96
24) 1,1-Dichloroethane	2.86	63	81041	23.115	ug/l	99
25) 2-Butanone	4.30	43	84493	119.321	ug/l #	85
26) 2,2-Dichloropropane	3.57	77	41146	27.697	ug/l	94
27) cis-1,2-Dichloroethene	3.45	96	52295	19.973	ug/l	93
28) Bromochloromethane	3.69	49	30946	21.027	ug/l	88
29) Tetrahydrofuran	4.04	42	34807	113.447	ug/l	96
30) Chloroform	3.83	83	96306	25.457	ug/l	90
31) Cyclohexane	3.67	56	78795	21.974	ug/l #	95
32) 1,1,1-Trichloroethane	4.08	97	68368	28.244	ug/l	89
36) 1,1-Dichloropropene	4.25	75	80842	25.182	ug/l	96
37) Ethyl Acetate	4.09	43	33614	24.110	ug/l	86
38) Carbon Tetrachloride	3.96	117	62907	28.159	ug/l	94

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

39) Methylcyclohexane	5.43	83	80258	22.505	ug/l #	83
40) Benzene	4.61	78	171037	20.591	ug/l	97
41) Methacrylonitrile	4.73	41	16785	22.648	ug/l #	82
42) 1,2-Dichloroethane	4.91	62	66632	31.303	ug/l	98
43) Isopropyl Acetate	6.93	43	40140	24.186	ug/l #	99
44) Trichloroethene	5.48	130	53276	20.920	ug/l	83
45) 1,2-Dichloropropane	6.21	63	41387	20.732	ug/l	92
46) Dibromomethane	6.07	93	26661	21.581	ug/l	83
47) Bromodichloromethane	6.35	83	69880	24.735	ug/l	98
48) Methyl methacrylate	6.69	41	29661	29.681	ug/l #	89
49) 1,4-Dioxane	6.67	88	3053	377.548	ug/l #	56
51) 4-Methyl-2-Pentanone	8.23	43	140687	123.746	ug/l	92
52) Toluene	7.60	92	113013	23.070	ug/l	95
53) t-1,3-Dichloropropene	8.25	75	61379	27.445	ug/l	92
54) cis-1,3-Dichloropropene	7.28	75	72788	23.517	ug/l	90
55) 1,1,2-Trichloroethane	8.46	97	29923	21.753	ug/l #	92
56) Ethyl methacrylate	8.60	69	39694	23.719	ug/l	88
57) 1,3-Dichloropropane	8.82	76	50128	21.969	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.27	63	27331	108.753	ug/l	98
59) 2-Hexanone	9.46	43	100146	121.007	ug/l	94
60) Dibromochloromethane	8.70	129	45718	23.590	ug/l	96
61) 1,2-Dibromoethane	8.96	107	30649	20.907	ug/l	91
64) Tetrachloroethene	8.13	164	43661	21.283	ug/l	93
65) Chlorobenzene	9.77	112	108690	21.613	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.91	131	50480	24.598	ug/l	94
67) Ethyl Benzene	9.88	91	217383	24.300	ug/l	99
68) m/p-Xylenes	10.10	106	158069	47.486	ug/l	93
69) o-Xylene	10.70	106	78148	22.919	ug/l	97
70) Styrene	10.76	104	116541	22.139	ug/l	99
71) Bromoform	10.75	173	25546	24.243	ug/l	90
73) Isopropylbenzene	11.11	105	244056	24.452	ug/l	94
74) N-amyl acetate	11.36	43	58597	24.197	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.68	83	36989	22.050	ug/l	93
76) 1,2,3-Trichloropropane	11.78	75	27606	22.610	ug/l	81
77) Bromobenzene	11.47	156	51534	21.426	ug/l	94
78) n-propylbenzene	11.57	91	272361	23.213	ug/l	97
79) 2-Chlorotoluene	11.70	91	163427	25.129	ug/l	96
80) 1,3,5-Trimethylbenzene	11.81	105	200777	24.059	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.85	75	11504m	22.966	ug/l	
82) 4-Chlorotoluene	11.88	91	167610	24.828	ug/l	97
83) tert-Butylbenzene	12.11	119	199393	23.038	ug/l	98
84) 1,2,4-Trimethylbenzene	12.18	105	208125	25.500	ug/l	98
85) sec-Butylbenzene	12.29	105	254674	22.841	ug/l	100
86) p-Isopropyltoluene	12.44	119	234921	23.907	ug/l	95
87) 1,3-Dichlorobenzene	12.46	146	92509	20.382	ug/l	92
88) 1,4-Dichlorobenzene	12.55	146	102624	23.467	ug/l	96
89) n-Butylbenzene	12.82	91	234095	25.115	ug/l	97
90) Hexachloroethane	12.90	117	54655	23.824	ug/l	97
91) 1,2-Dichlorobenzene	12.92	146	90740	21.582	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7675	28.759	ug/l	84

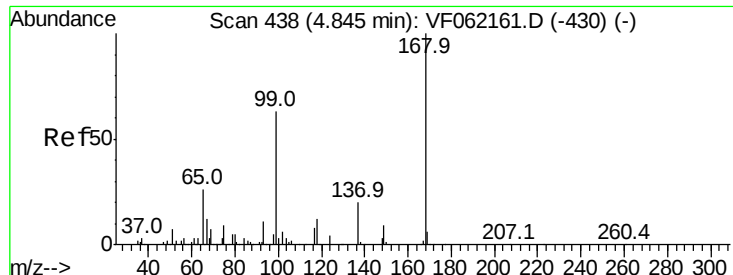
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	64449	21.762	ug/l	99
94) Hexachlorobutadiene	14.17	225	42862	21.911	ug/l	93
95) Naphthalene	14.44	128	103894	20.505	ug/l	96
96) 1,2,3-Trichlorobenzene	14.59	180	55623	20.484	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 438

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

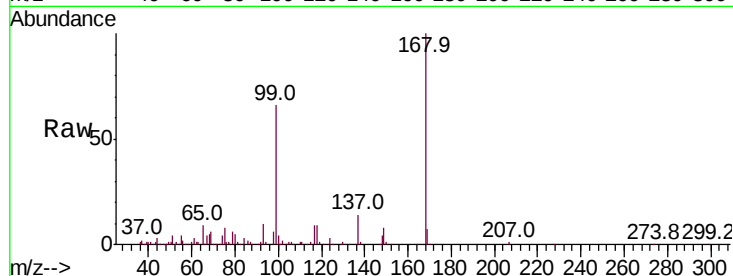
VSTDIC020

Tot Ion:168 Resp: 211823

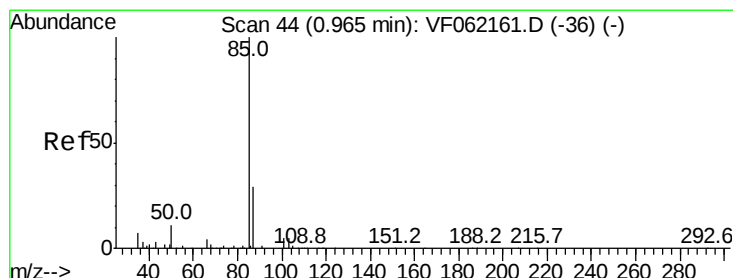
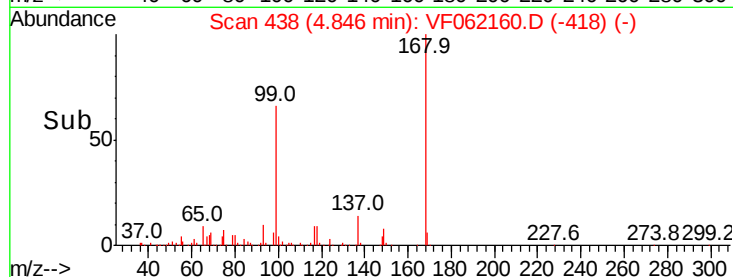
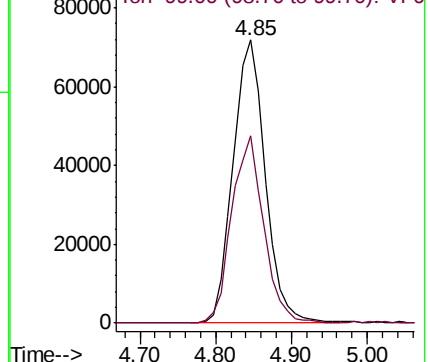
Ion Ratio Lower Upper

168 100

99 66.2 50.5 75.7



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 24.589 ug/l

RT: 0.96 min Scan# 43

Delta R.T. -0.01 min

Lab File: VF062160.D

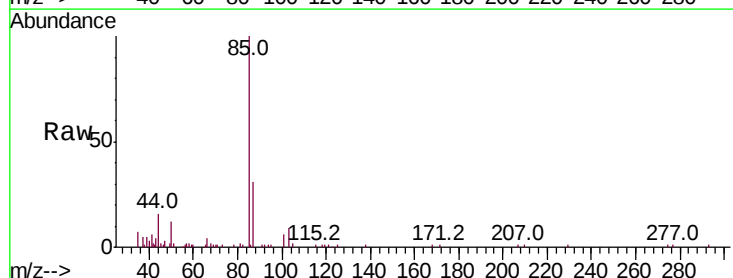
Acq: 4 Apr 2019 16:37

Tgt Ion: 85 Resp: 67833

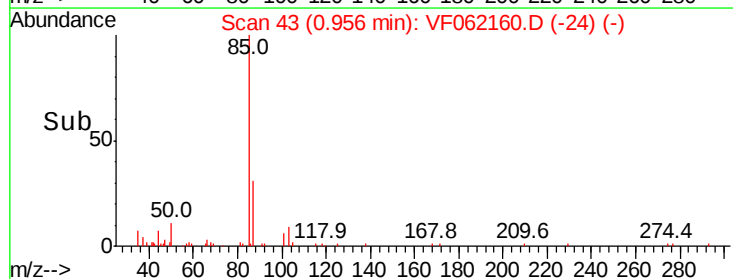
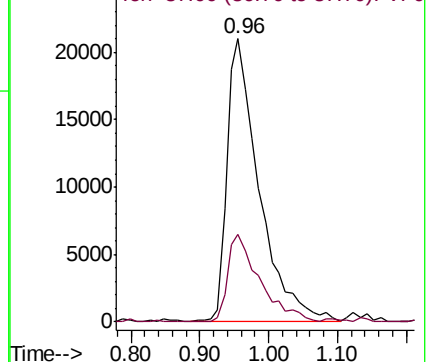
Ion Ratio Lower Upper

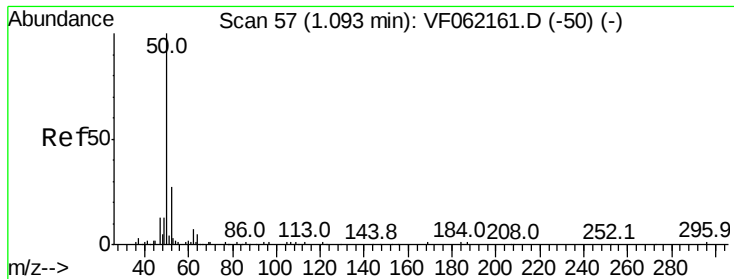
85 100

87 31.0 14.9 44.5



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 19.567 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

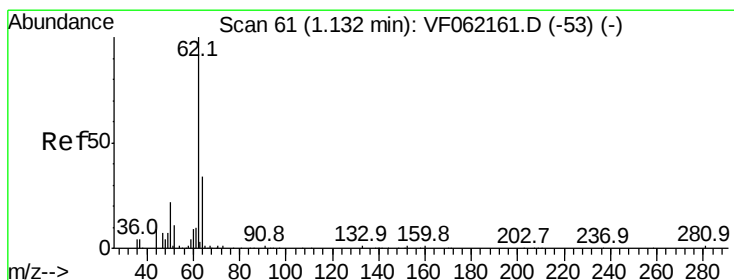
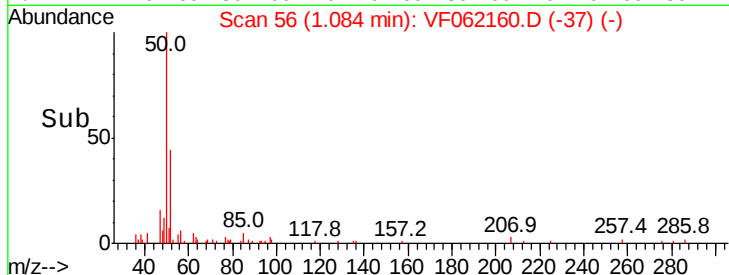
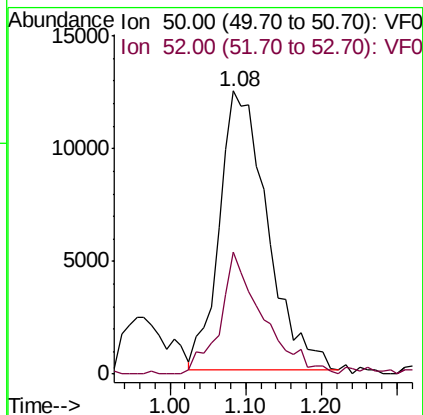
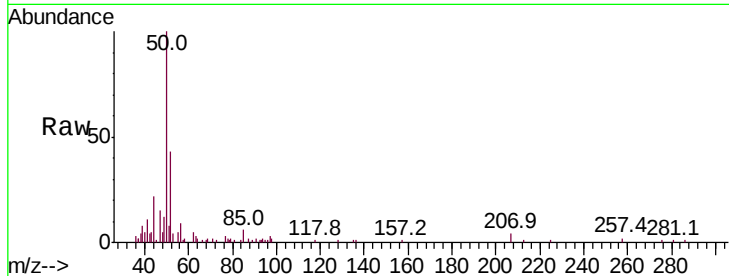
VSTDIC020

Tot Ion: 50 Resp: 54545

Ion Ratio Lower Upper

50 100

52 43.1 21.4 32.0#



#4

Vinyl Chloride

Concen: 21.958 ug/l

RT: 1.13 min Scan# 61

Delta R.T. 0.00 min

Lab File: VF062160.D

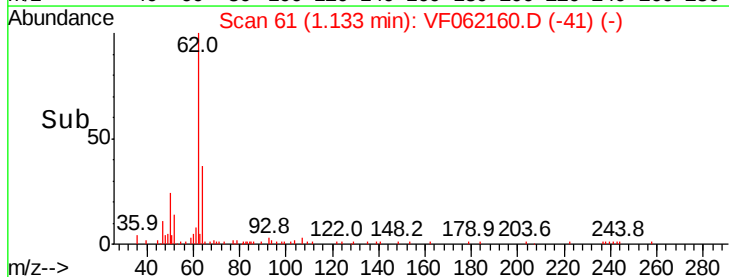
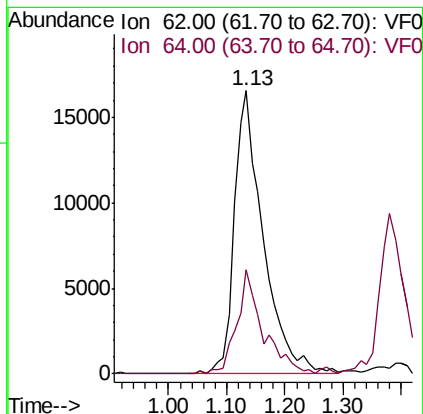
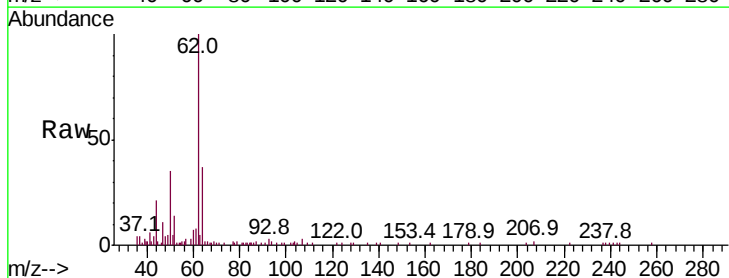
Acq: 4 Apr 2019 16:37

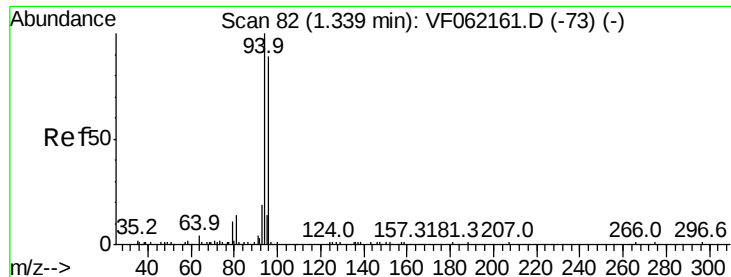
Tgt Ion: 62 Resp: 57018

Ion Ratio Lower Upper

62 100

64 36.7 27.0 40.4





#5

Bromomethane

Concen: 22.783 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

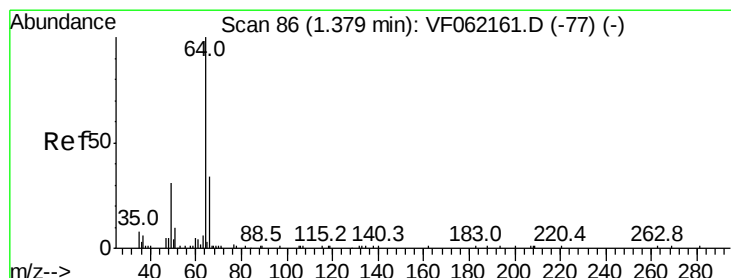
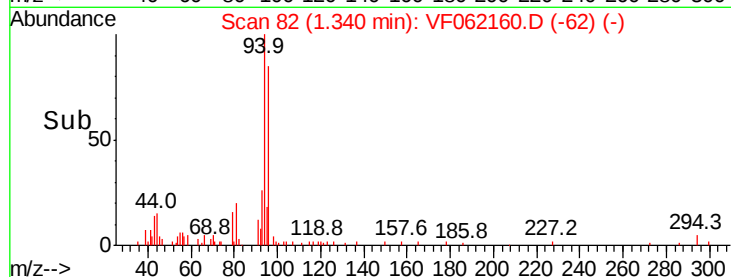
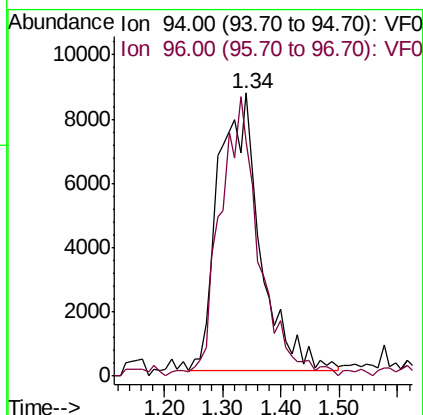
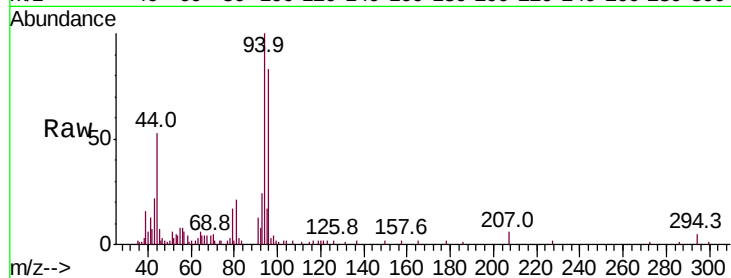
VSTDIC020

Tot Ion: 94 Resp: 43173

Ion Ratio Lower Upper

94 100

96 83.0 71.3 106.9



#6

Chloroethane

Concen: 21.512 ug/l

RT: 1.38 min Scan# 86

Delta R.T. 0.00 min

Lab File: VF062160.D

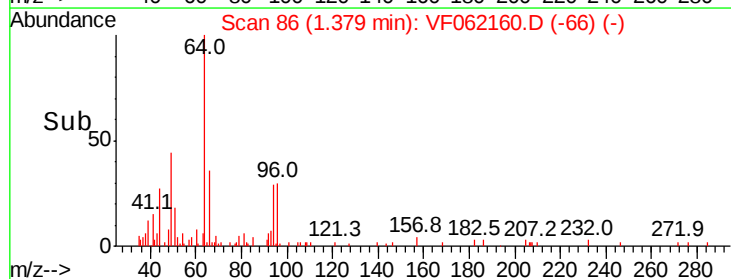
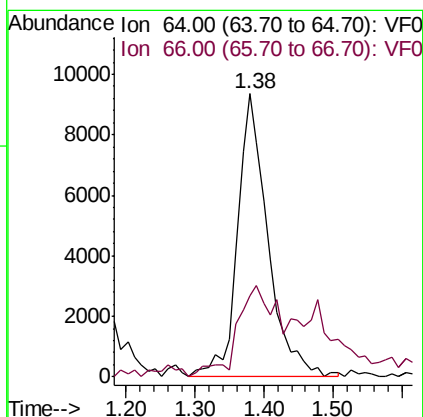
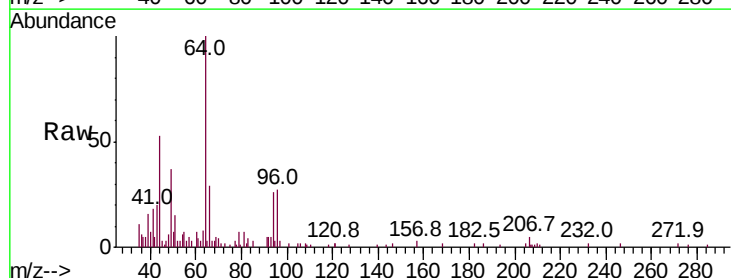
Acq: 4 Apr 2019 16:37

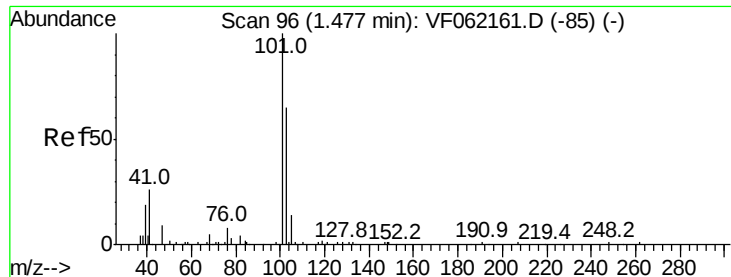
Tgt Ion: 64 Resp: 28643

Ion Ratio Lower Upper

64 100

66 28.8 27.8 41.6





#7

Trichlorofluoromethane

Concen: 23.631 ug/l

RT: 1.48 min Scan# 96

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

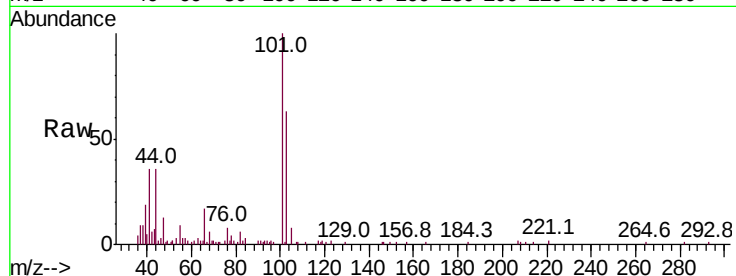
VSTDIC020

Tot Ion:101 Resp: 76644

Ion Ratio Lower Upper

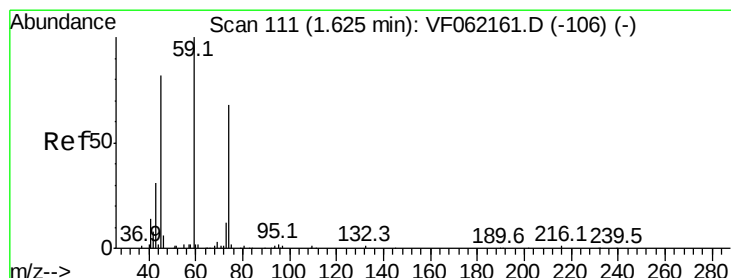
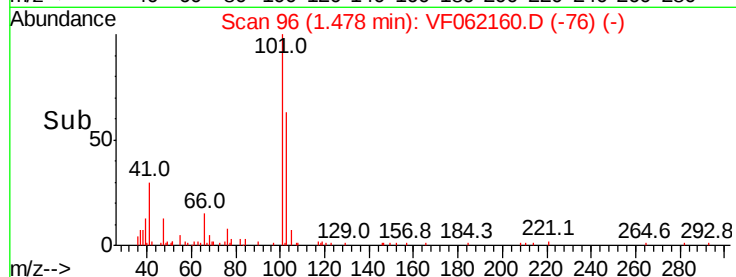
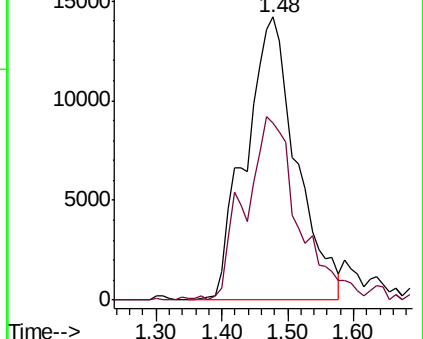
101 100

103 62.7 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 20.365 ug/l

RT: 1.63 min Scan# 111

Delta R.T. 0.00 min

Lab File: VF062160.D

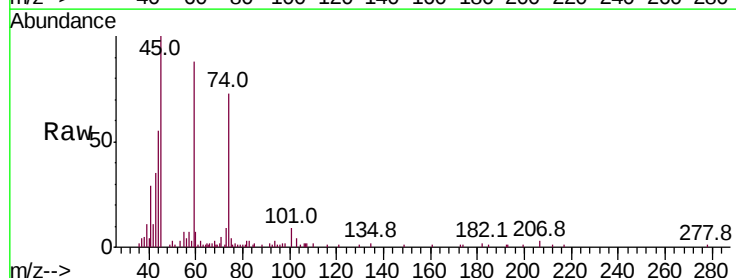
Acq: 4 Apr 2019 16:37

Tgt Ion: 74 Resp: 14663

Ion Ratio Lower Upper

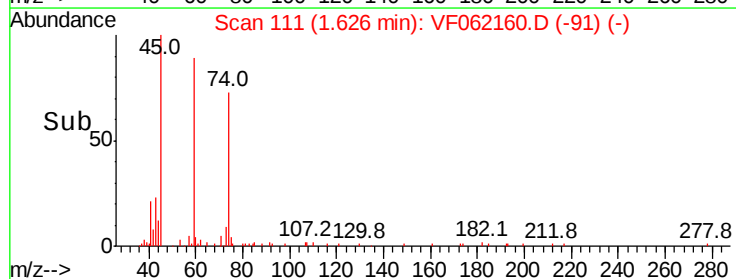
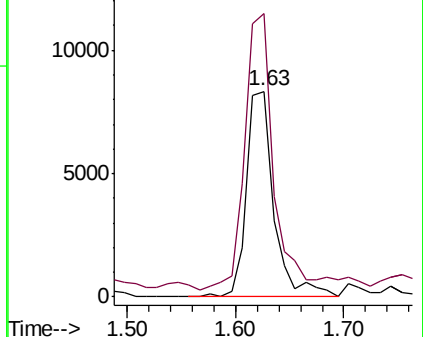
74 100

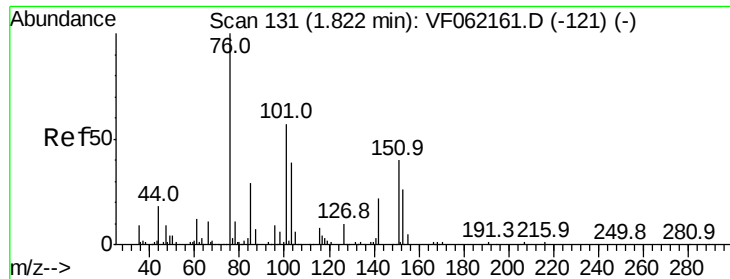
45 137.8 61.9 185.6



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: 22.059 ug/l

RT: 1.83 min Scan# 132

Delta R.T. 0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

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VSTDIC020

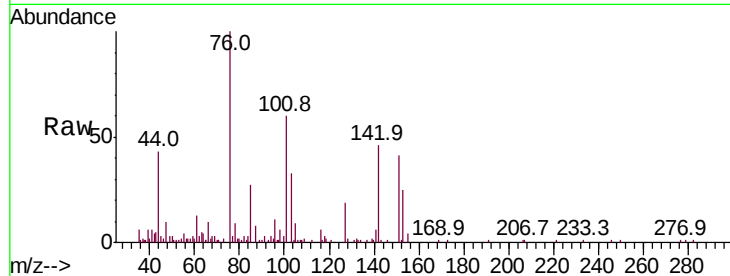
Tot Ion:101 Resp: 47523

Ion Ratio Lower Upper

101 100

85 45.9 41.0 61.6

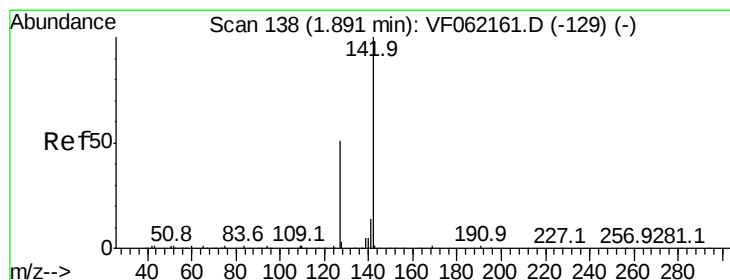
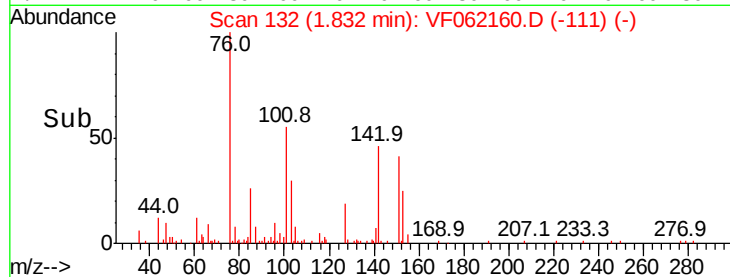
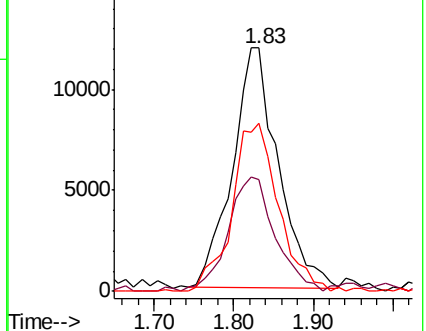
151 68.9 56.5 84.7



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: 20.702 ug/l m

RT: 1.90 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

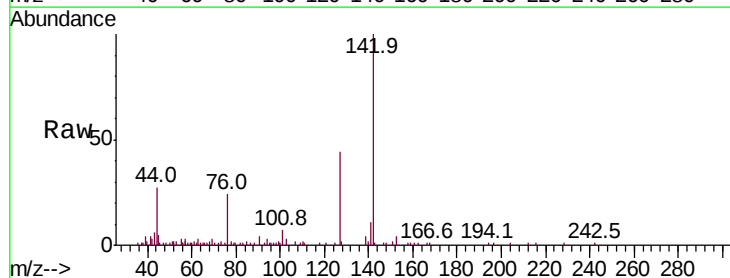
Tgt Ion:142 Resp: 84493

Ion Ratio Lower Upper

142 100

127 44.1 40.7 61.1

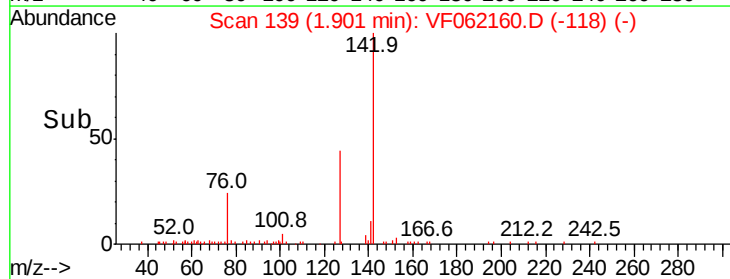
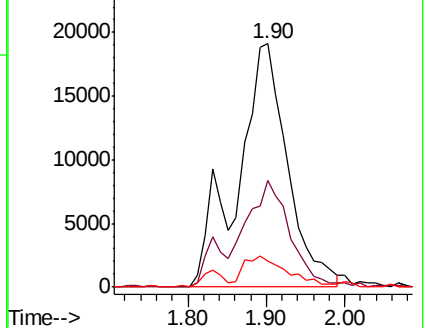
141 10.7 11.1 16.7#

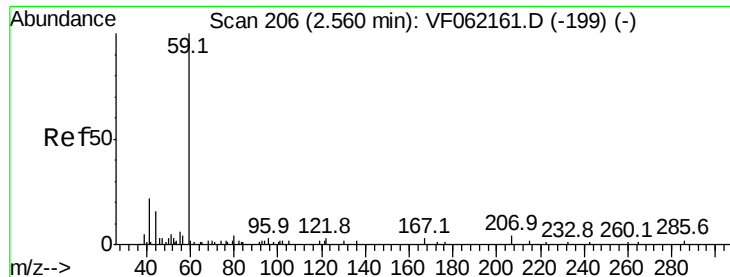


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



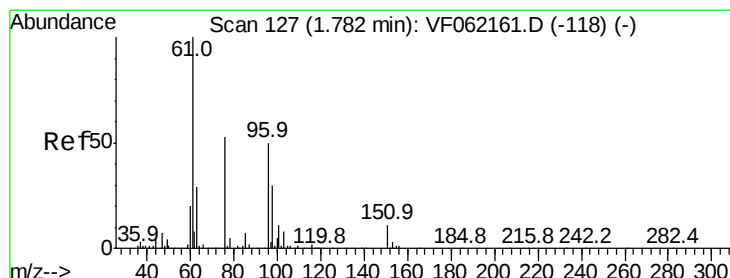
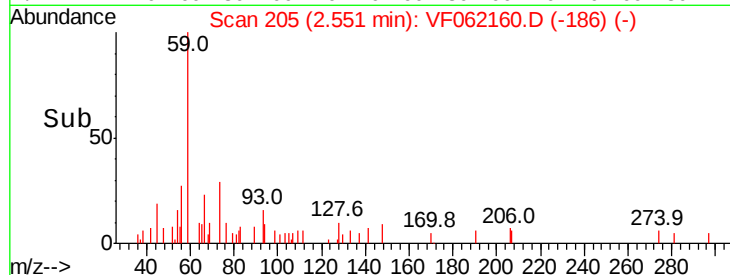
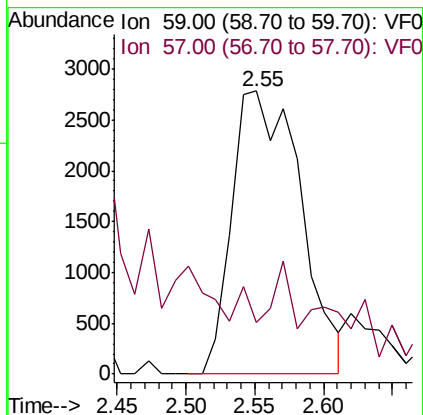
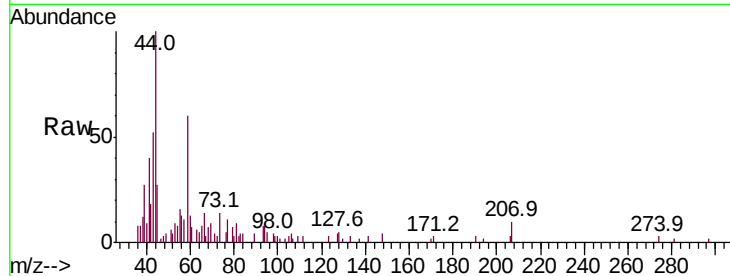


#11

Tert butyl alcohol
 Concen: 107.230 ug/l
 RT: 2.55 min Scan# 205
 Delta R.T. -0.01 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

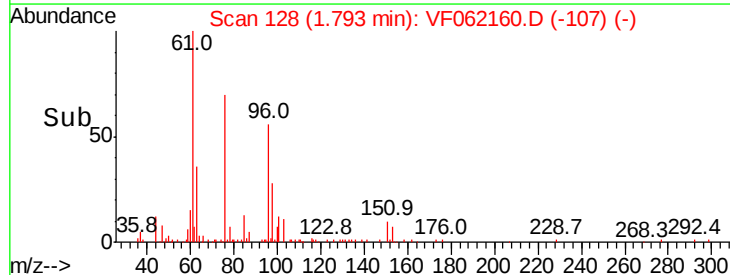
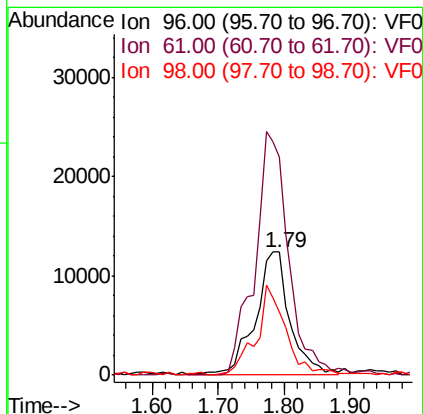
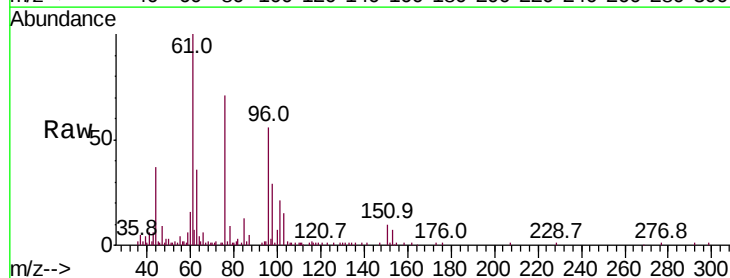
Tot Ion: 59 Resp: 9608
 Ion Ratio Lower Upper
 59 100
 57 18.2 9.5 14.3#

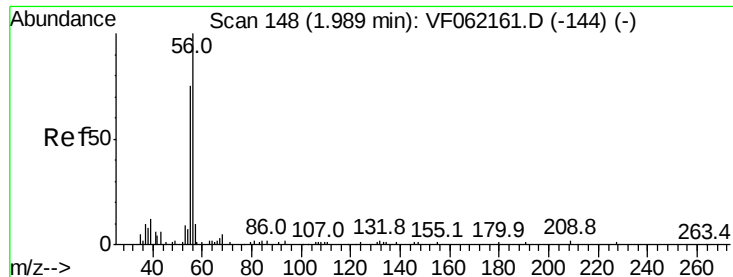


#12

1,1-Dichloroethene
 Concen: 22.519 ug/l
 RT: 1.79 min Scan# 128
 Delta R.T. 0.01 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion: 96 Resp: 45952
 Ion Ratio Lower Upper
 96 100
 61 177.0 161.8 242.6
 98 51.2 49.2 73.8





#13

Acrolein

Concen: 113.363 ug/l

RT: 1.99 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

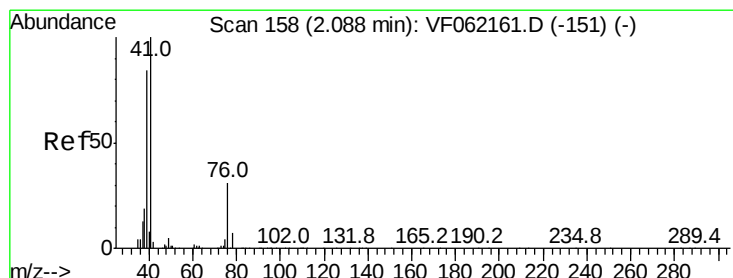
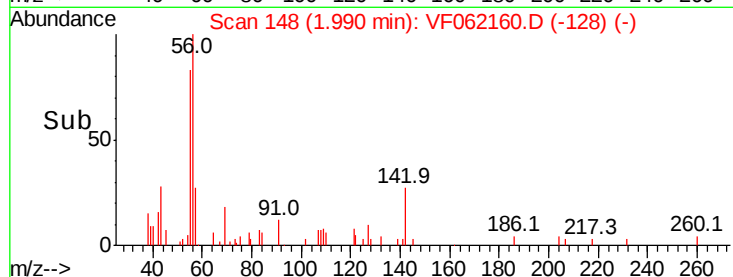
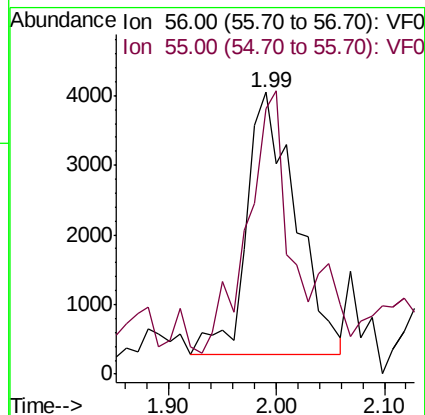
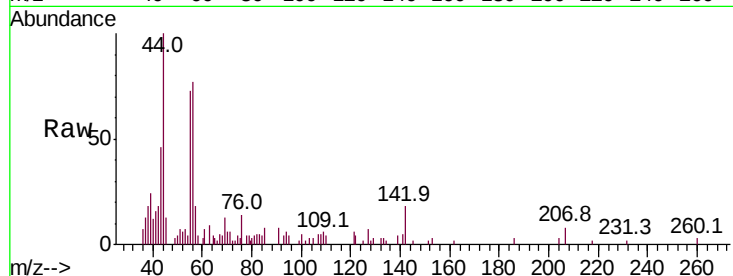
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 56 Resp: 11986

Ion Ratio Lower Upper

56 100

55 94.2 63.5 95.3



#14

Allyl chloride

Concen: 25.802 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

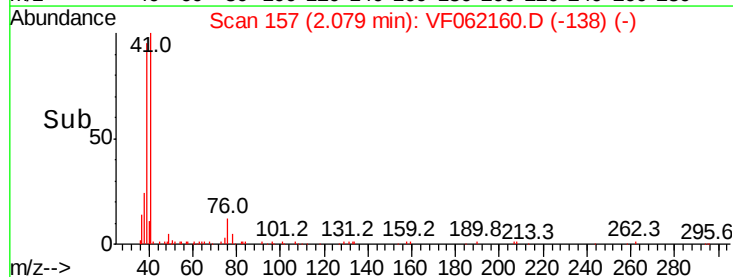
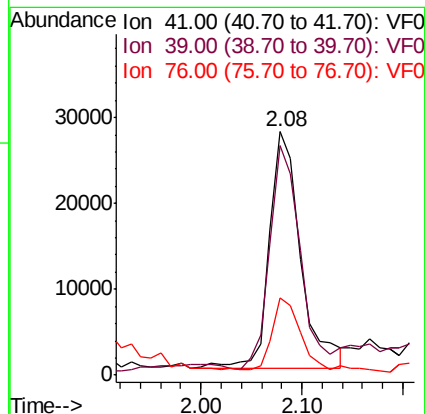
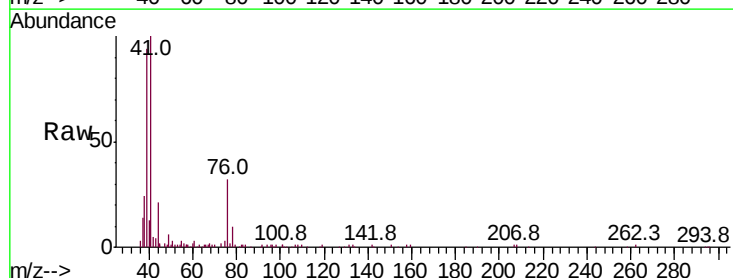
Tgt Ion: 41 Resp: 58815

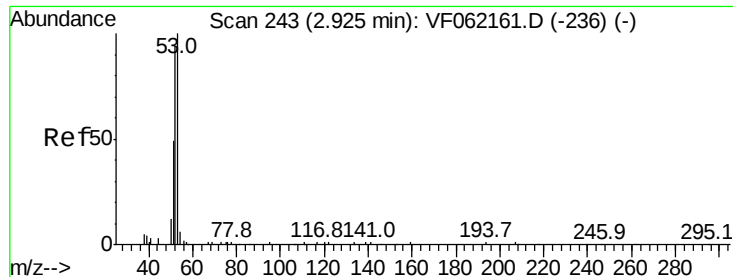
Ion Ratio Lower Upper

41 100

39 94.3 67.6 101.4

76 31.8 25.7 38.5





#15

Acrylonitrile

Concen: 96.210 ug/l

RT: 2.93 min Scan# 243

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

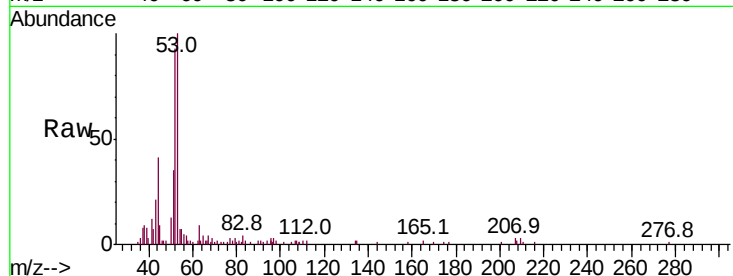
Tot Ion: 53 Resp: 29363

Ion Ratio Lower Upper

53 100

52 93.4 75.5 113.3

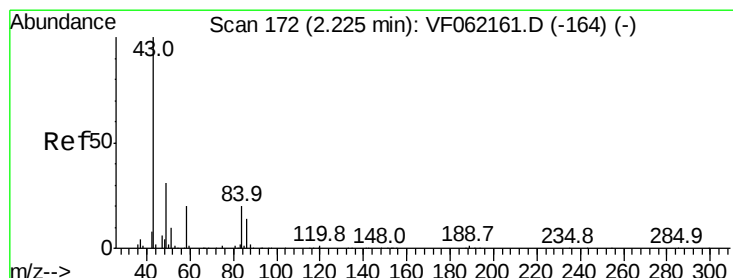
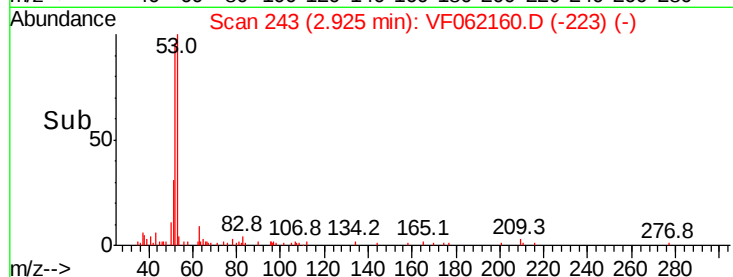
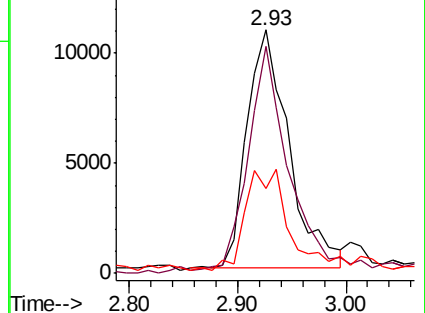
51 34.6 39.7 59.5#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 127.016 ug/l

RT: 2.23 min Scan# 172

Delta R.T. 0.00 min

Lab File: VF062160.D

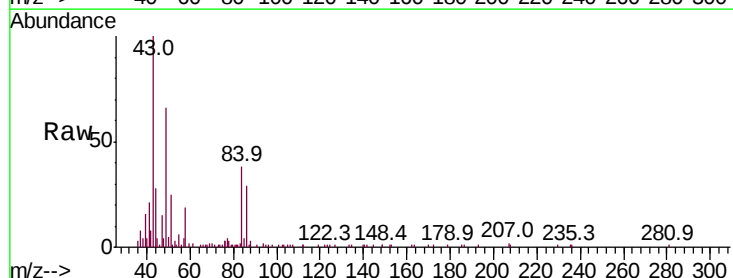
Acq: 4 Apr 2019 16:37

Tgt Ion: 43 Resp: 45490

Ion Ratio Lower Upper

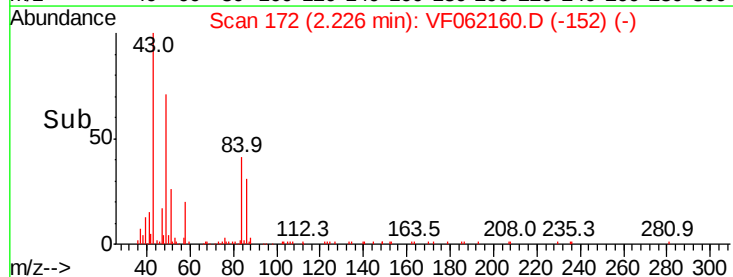
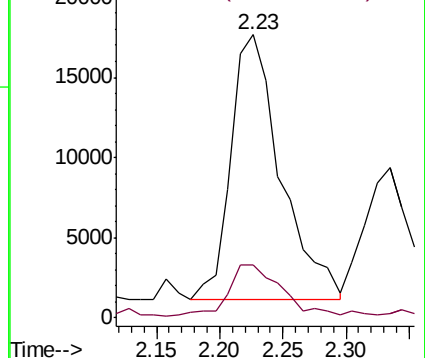
43 100

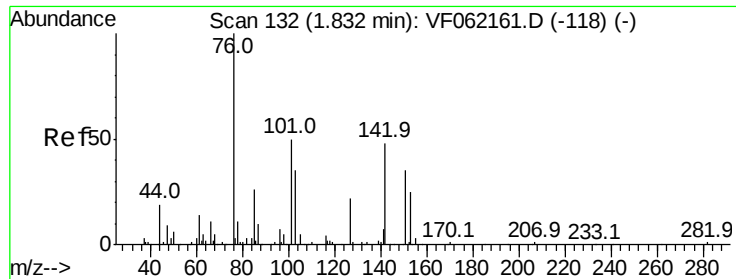
58 18.7 15.7 23.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 23.097 ug/l

RT: 1.82 min Scan# 131

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

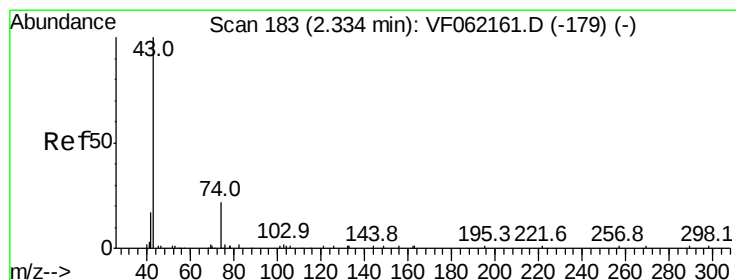
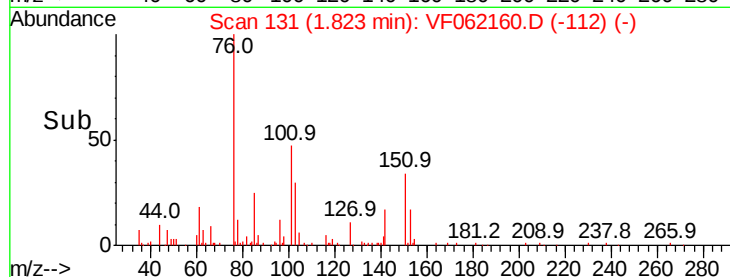
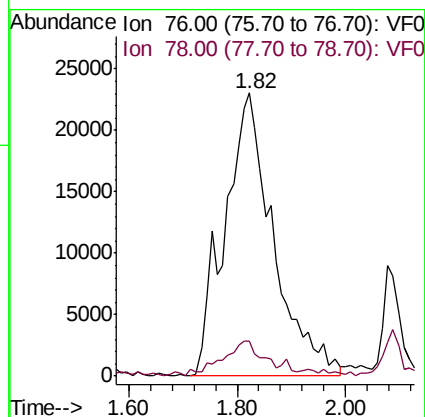
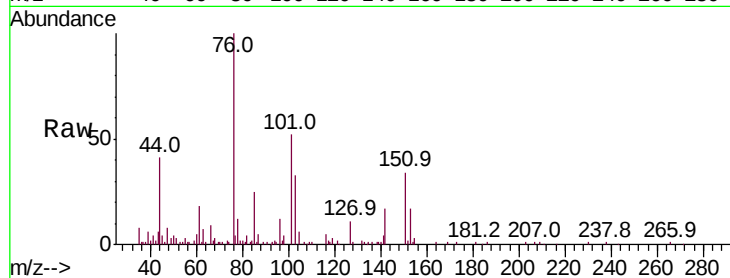
VSTDIC020

Tot Ion: 76 Resp: 144174

Ion Ratio Lower Upper

76 100

78 12.2 8.6 13.0



#18

Methyl Acetate

Concen: 23.688 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF062160.D

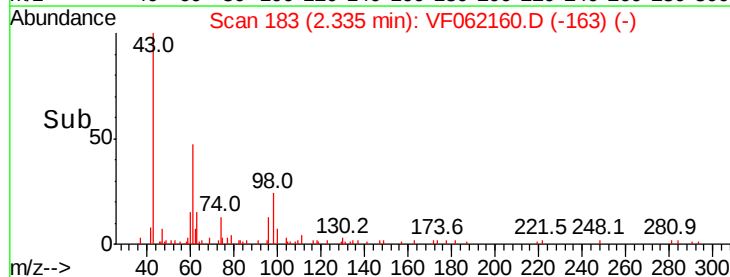
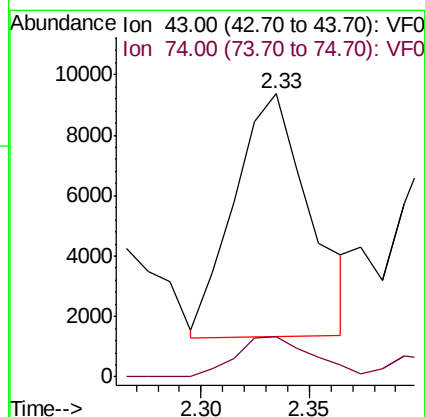
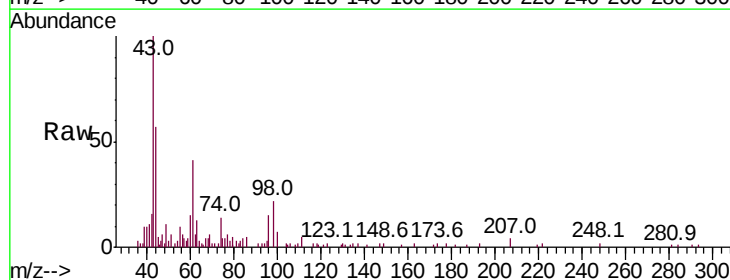
Acq: 4 Apr 2019 16:37

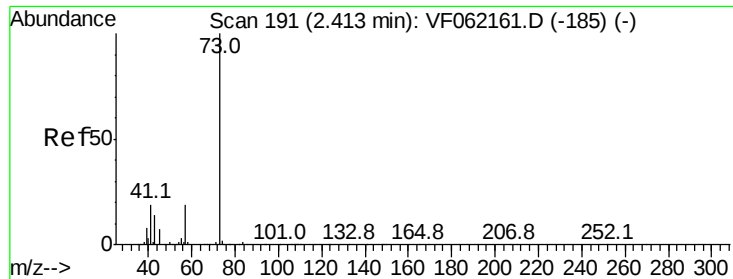
Tgt Ion: 43 Resp: 19528

Ion Ratio Lower Upper

43 100

74 14.3 14.3 21.5



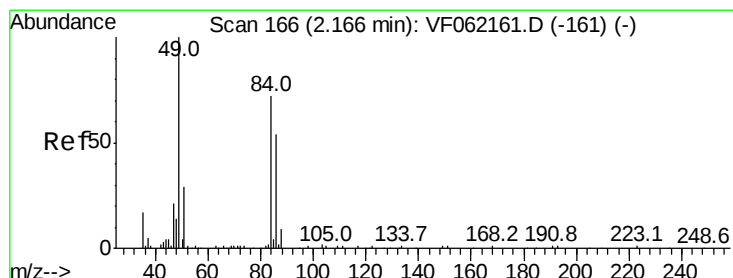
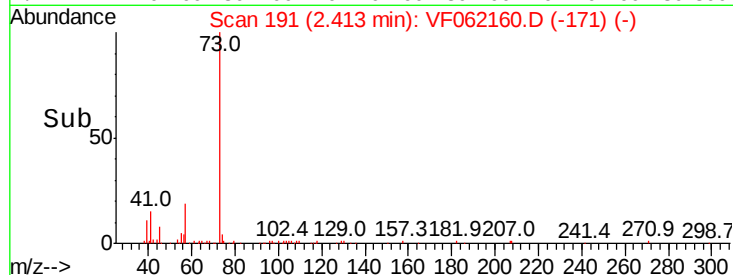
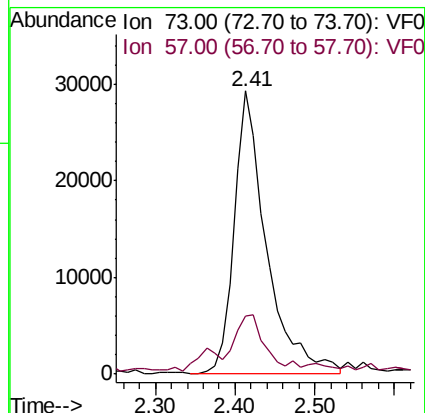
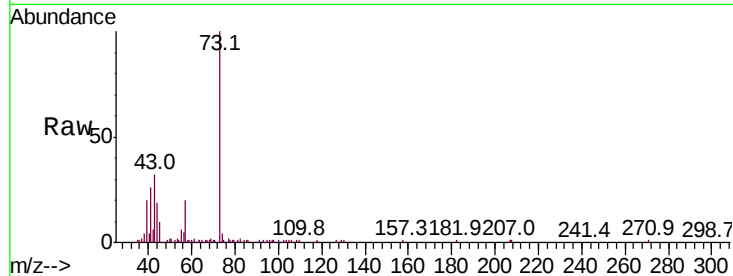


#19

Methyl tert-butyl Ether
 Concen: 24.603 ug/l
 RT: 2.41 min Scan# 191
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

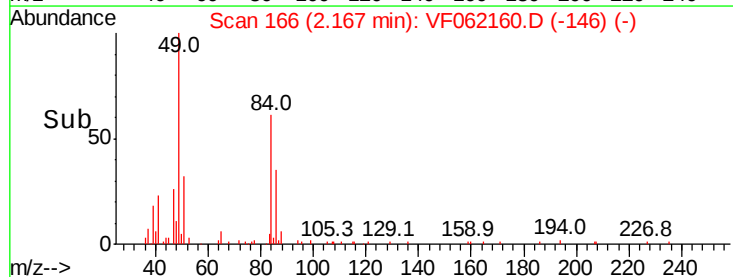
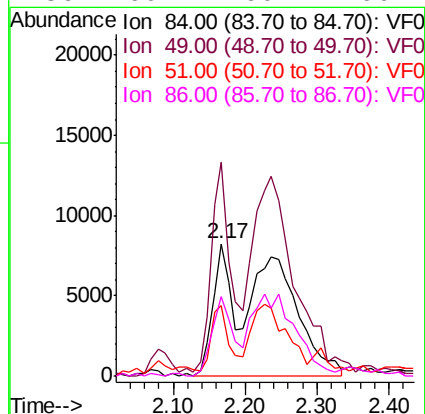
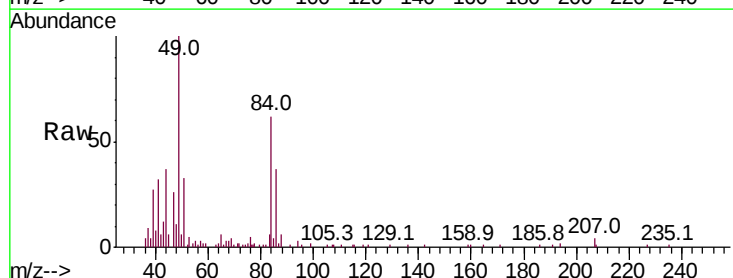
Tot Ion: 73 Resp: 81987
 Ion Ratio Lower Upper
 73 100
 57 20.4 17.4 26.0

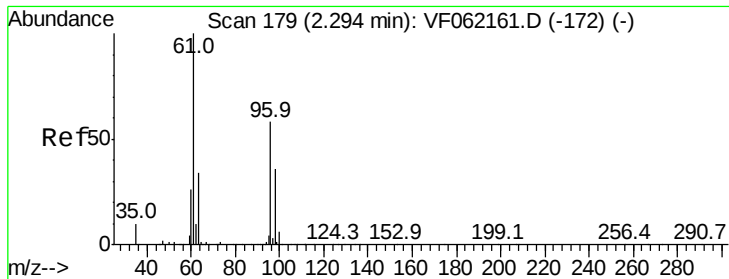


#20

Methylene Chloride
 Concen: 21.071 ug/l m
 RT: 2.17 min Scan# 166
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion: 84 Resp: 48752
 Ion Ratio Lower Upper
 84 100
 49 161.5 112.6 168.8
 51 53.3 33.4 50.2#
 86 60.2 60.1 90.1





#21

trans-1,2-Dichloroethene

Concen: 19.883 ug/l

RT: 2.30 min Scan# 179

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

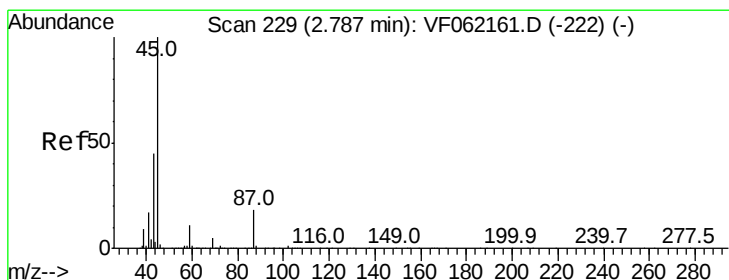
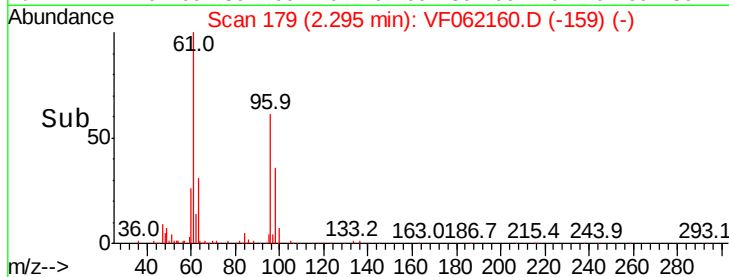
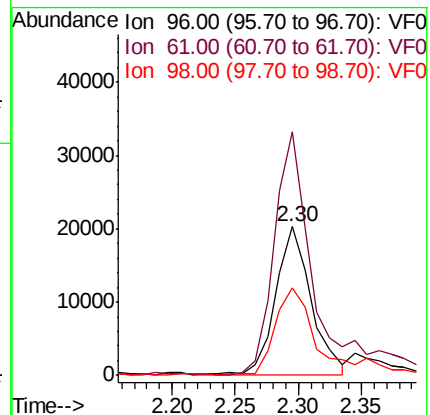
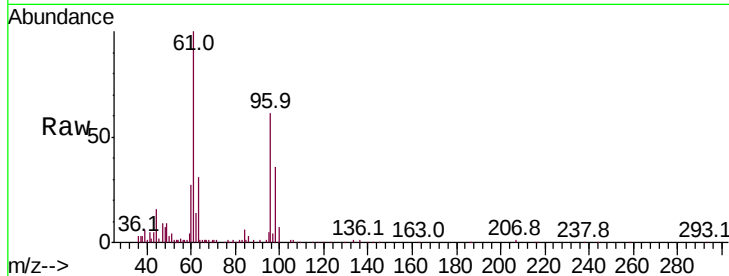
Tot Ion: 96 Resp: 39368

Ion Ratio Lower Upper

96 100

61 163.8 137.4 206.0

98 58.9 49.4 74.0



#22

Diisopropyl ether

Concen: 22.256 ug/l

RT: 2.78 min Scan# 228

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Tgt Ion: 45 Resp: 130264

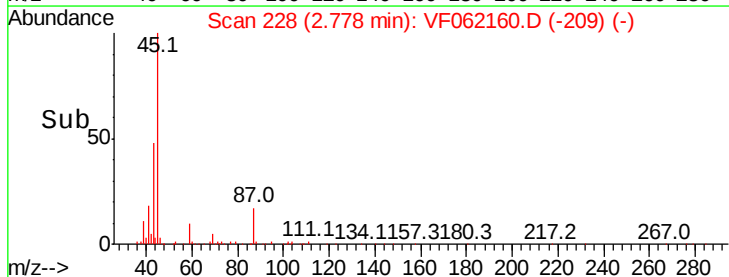
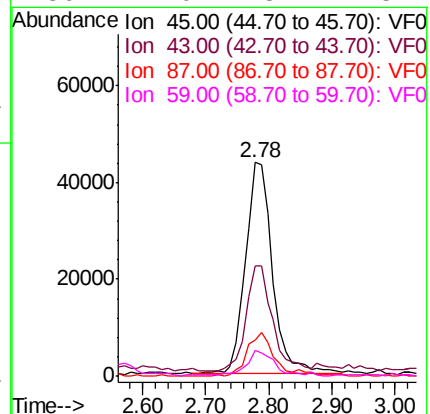
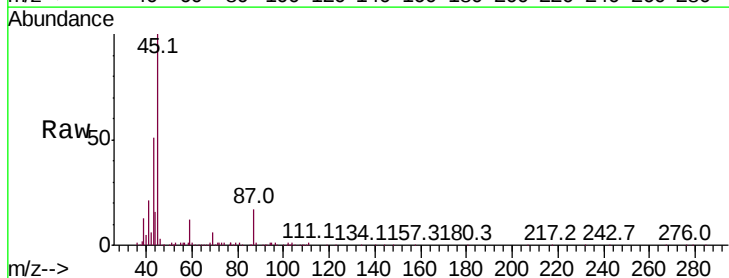
Ion Ratio Lower Upper

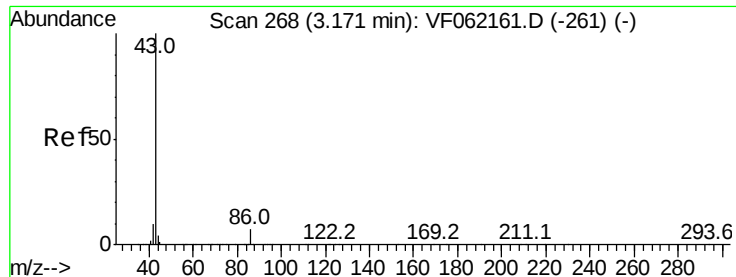
45 100

43 51.4 37.4 56.2

87 16.9 14.3 21.5

59 12.0 8.7 13.1





#23

Vinyl Acetate

Concen: 124.365 ug/l

RT: 3.16 min Scan# 267

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

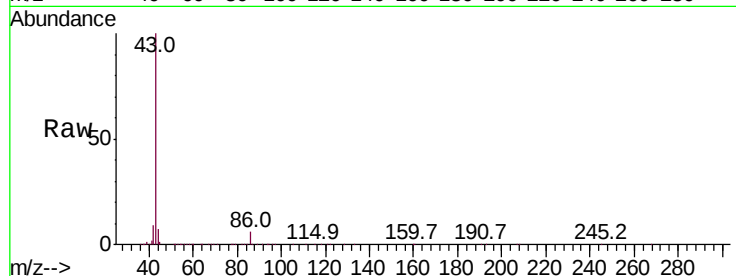
VSTDIC020

Tot Ion: 43 Resp: 304010

Ion Ratio Lower Upper

43 100

86 5.9 5.7 8.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

120000

100000

80000

60000

40000

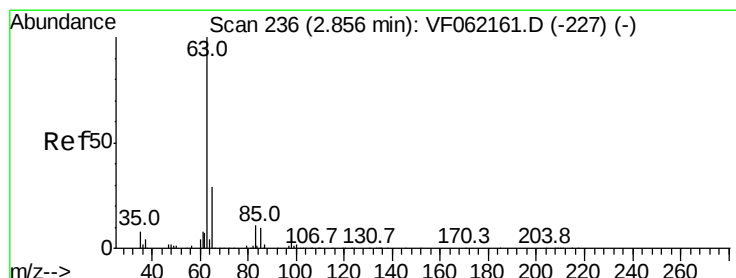
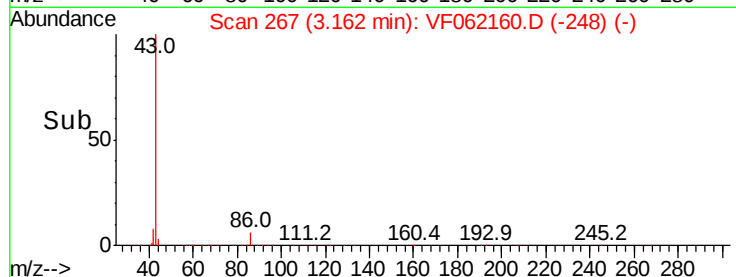
20000

0

3.16

3.00 3.10 3.20 3.30

Time-->



#24

1,1-Dichloroethane

Concen: 23.115 ug/l

RT: 2.86 min Scan# 236

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

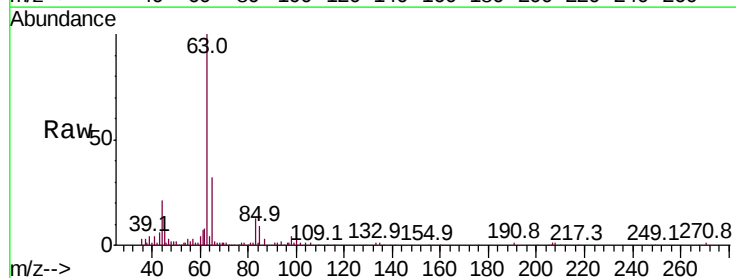
Tgt Ion: 63 Resp: 81041

Ion Ratio Lower Upper

63 100

98 3.8 2.0 6.0

100 2.7 1.0 3.0



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

40000

30000

20000

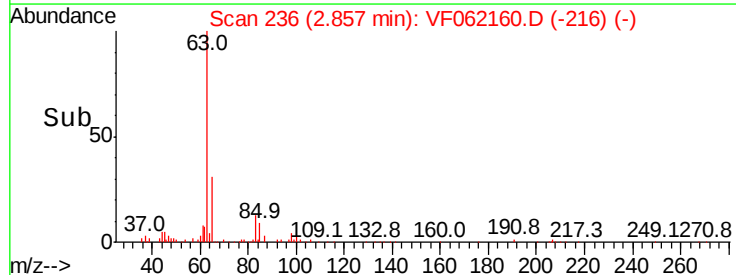
10000

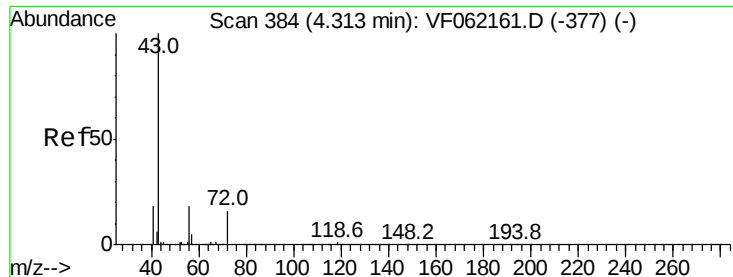
0

2.86

2.80 2.90 3.00

Time-->





#25

2-Butanone

Concen: 119.321 ug/l

RT: 4.30 min Scan# 383

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

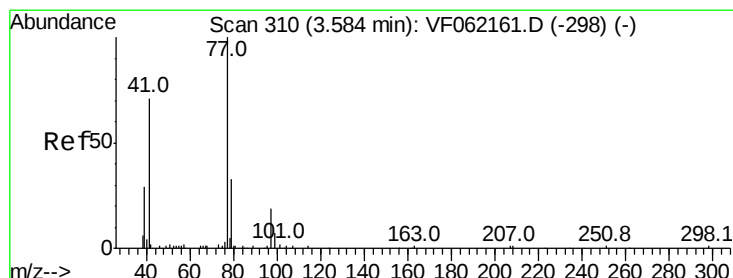
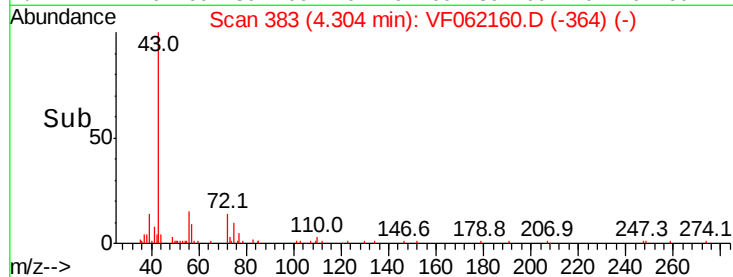
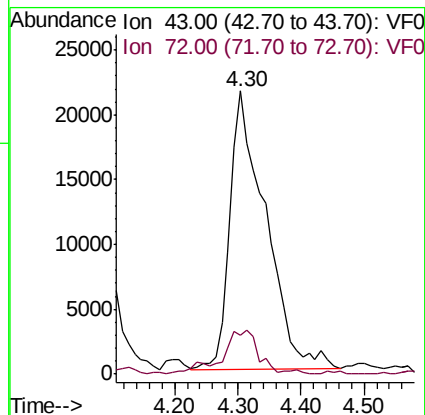
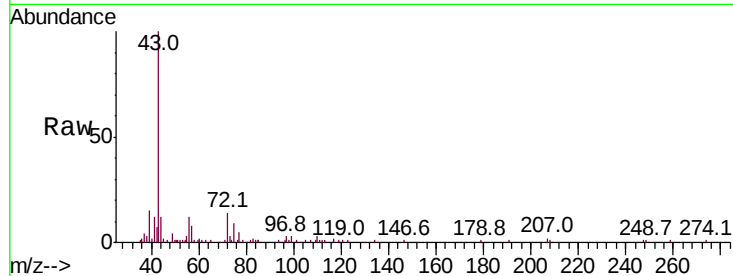
VSTDIC020

Tot Ion: 43 Resp: 84493

Ion Ratio Lower Upper

43 100

72 13.7 16.4 24.6#



#26

2,2-Dichloropropane

Concen: 27.697 ug/l

RT: 3.57 min Scan# 308

Delta R.T. -0.02 min

Lab File: VF062160.D

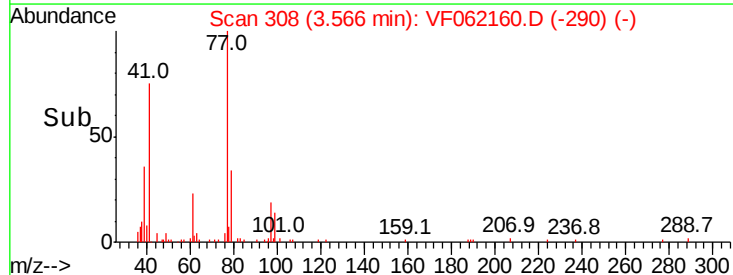
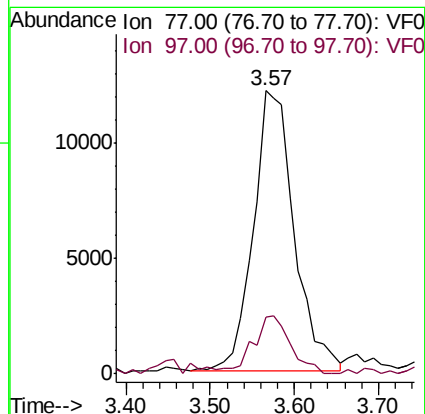
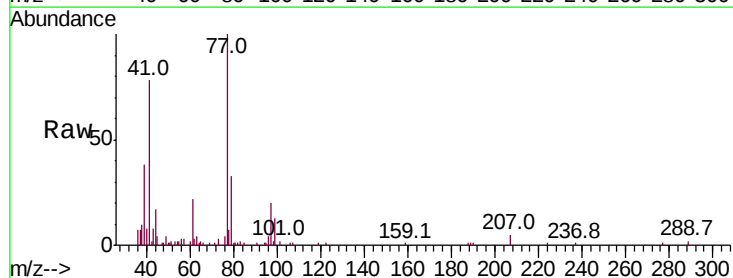
Acq: 4 Apr 2019 16:37

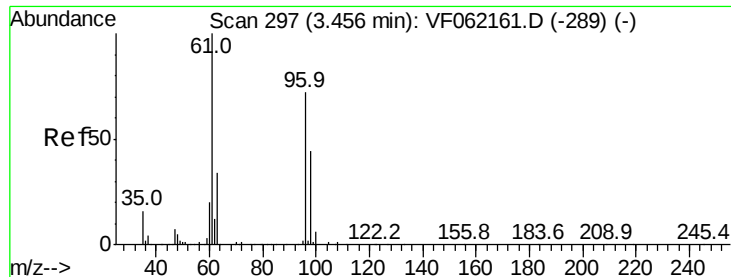
Tgt Ion: 77 Resp: 41146

Ion Ratio Lower Upper

77 100

97 20.1 11.4 34.2



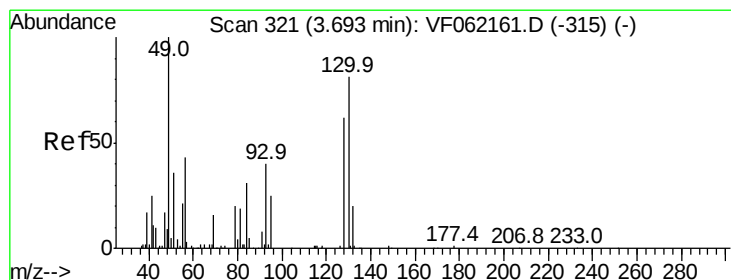
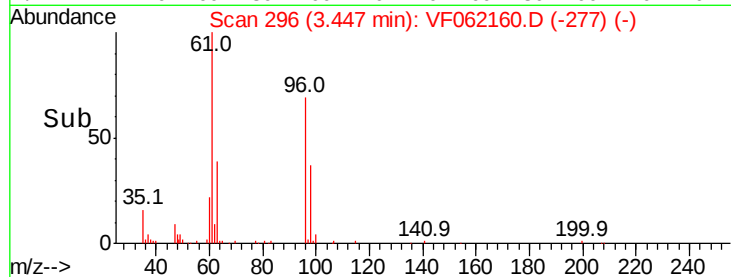
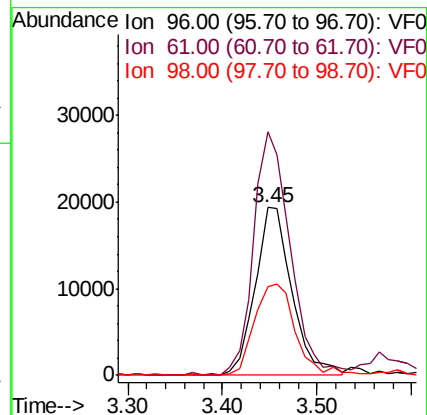
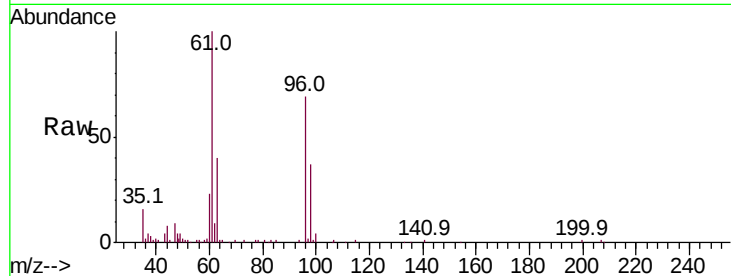


#27

cis-1,2-Dichloroethene
Concen: 19.973 ug/l
RT: 3.45 min Scan# 296
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

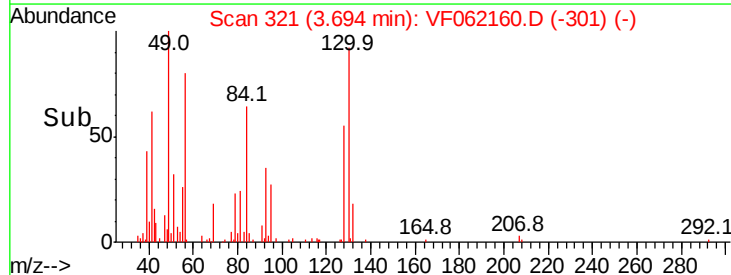
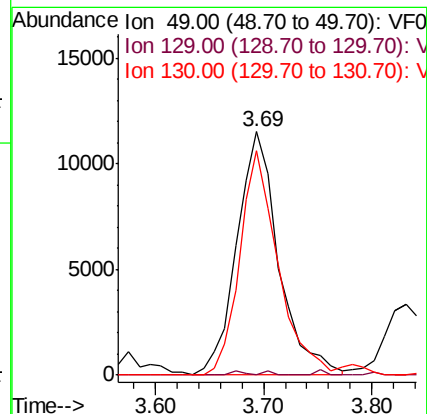
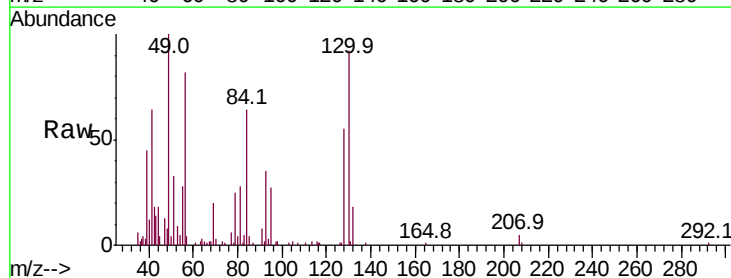
Tot Ion	96	Resp	52295
Ion	Ratio	Lower	Upper
96	100		
61	145.2	0.0	278.2
98	53.1	0.0	122.2

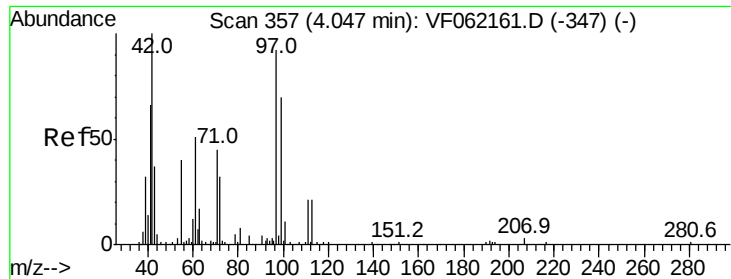


#28

Bromochloromethane
Concen: 21.027 ug/l
RT: 3.69 min Scan# 321
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion	49	Resp	30946
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	92.2	65.0	97.4

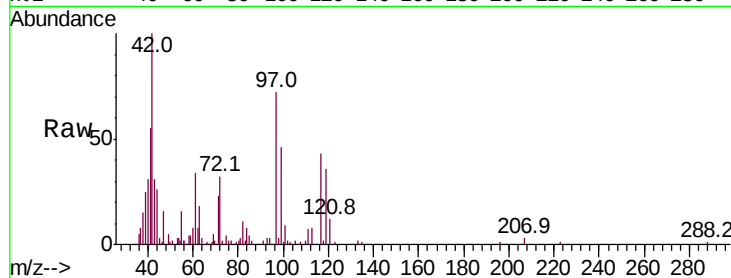




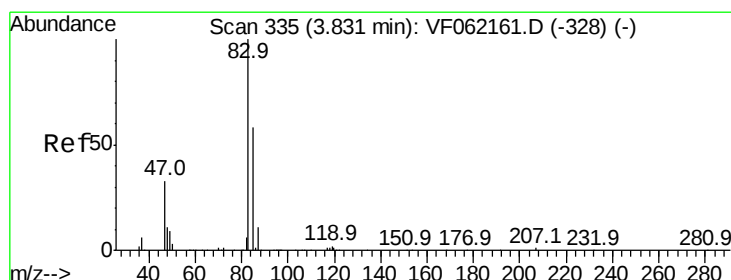
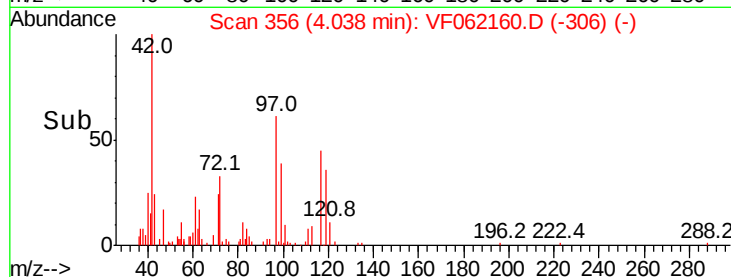
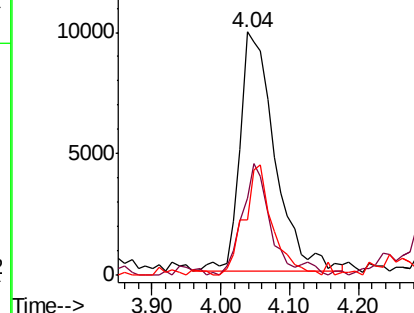
#29
Tetrahydrofuran
Concen: 113.447 ug/l
RT: 4.04 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.2	30.9	46.3
71	37.5	32.0	48.0

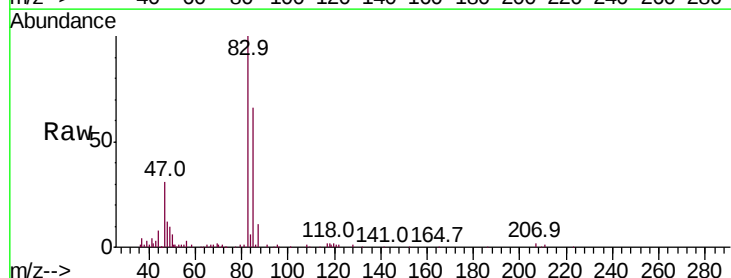


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

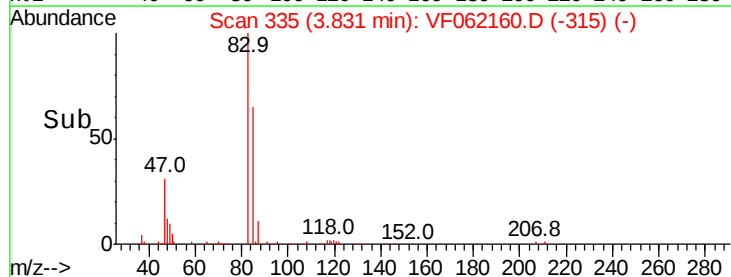
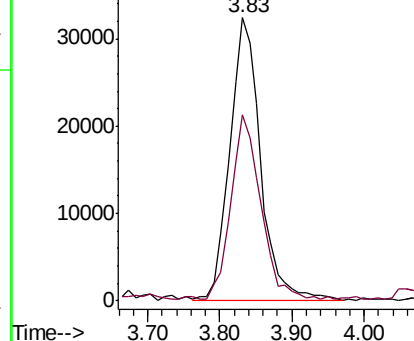


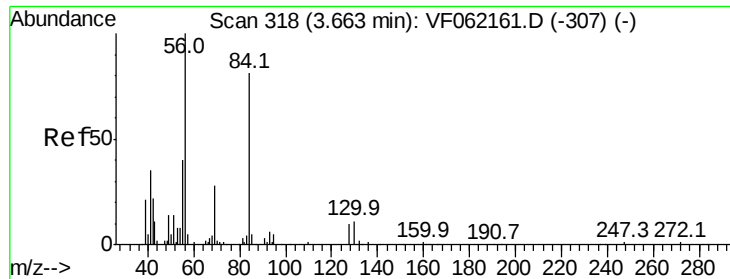
#30
Chloroform
Concen: 25.457 ug/l
RT: 3.83 min Scan# 335
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	46.9	70.3



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 21.974 ug/l

RT: 3.67 min Scan# 319

Delta R.T. 0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

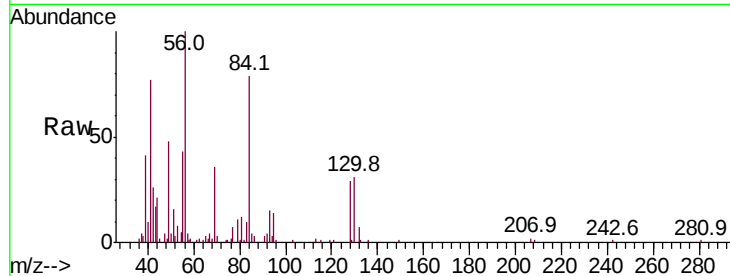
Tot Ion: 56 Resp: 78795

Ion Ratio Lower Upper

56 100

69 35.9 23.0 34.4#

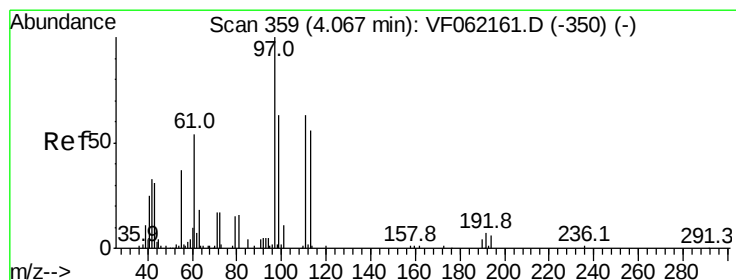
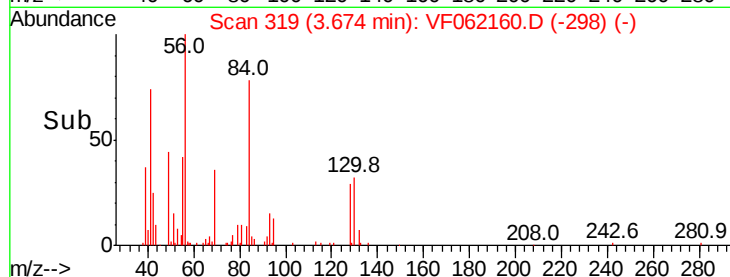
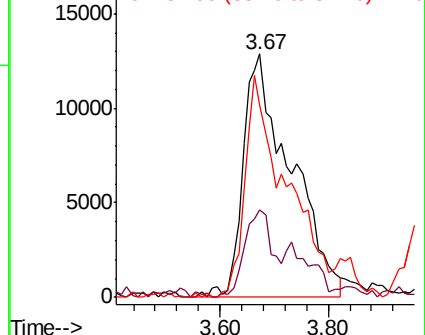
84 78.9 64.4 96.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 28.244 ug/l

RT: 4.08 min Scan# 360

Delta R.T. 0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

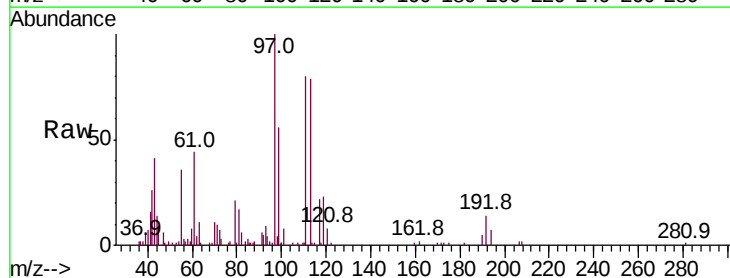
Tgt Ion: 97 Resp: 68368

Ion Ratio Lower Upper

97 100

99 56.8 50.2 75.2

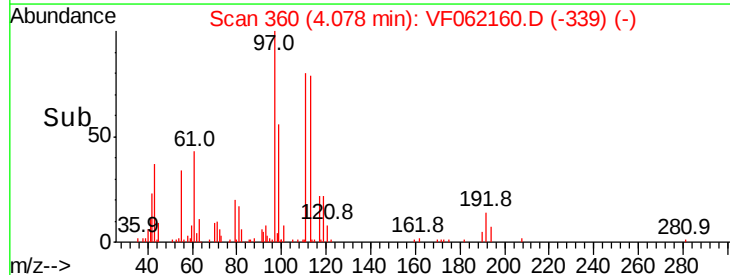
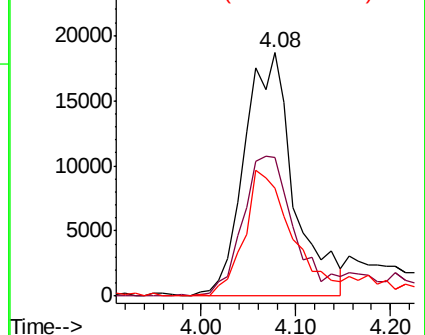
61 44.5 43.5 65.3

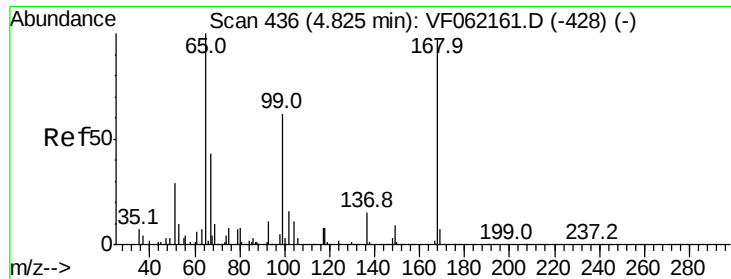


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 26.619 ug/l

RT: 4.82 min Scan# 435

Delta R.T. -0.01 min

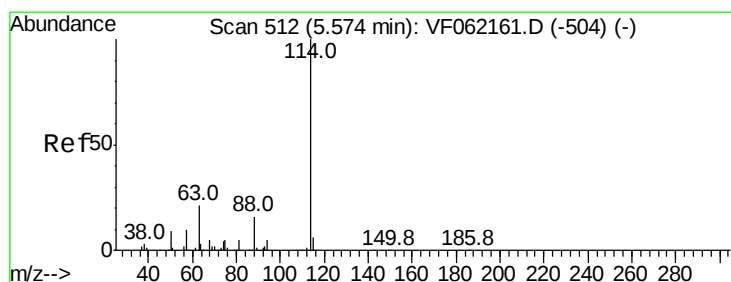
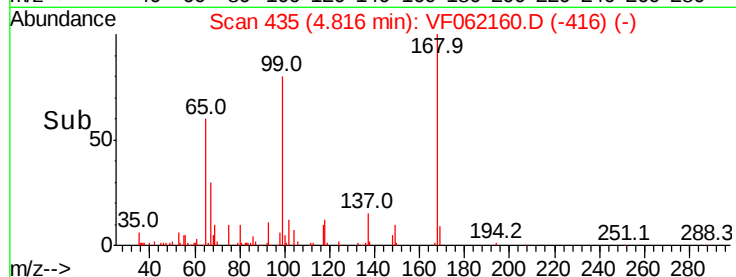
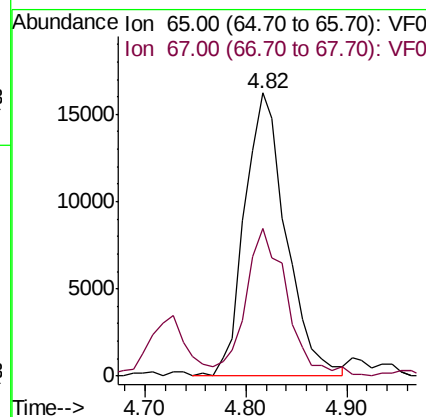
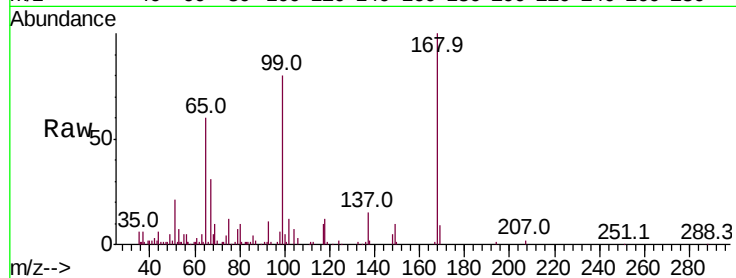
Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 65 Resp: 46450

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	96.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 512

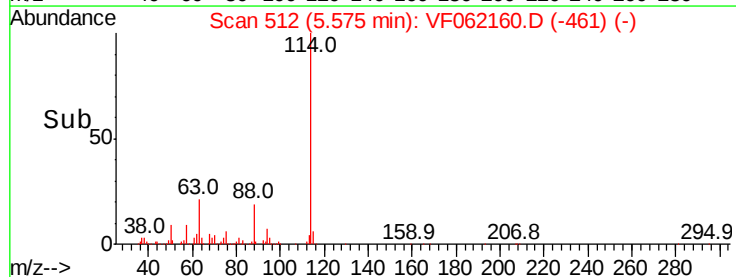
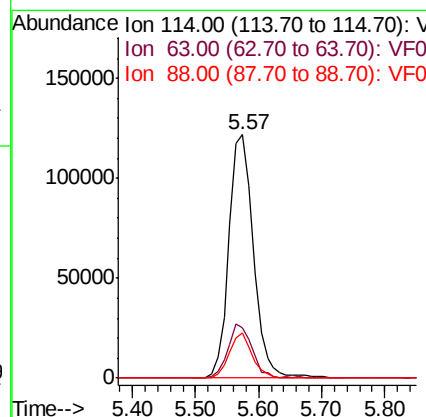
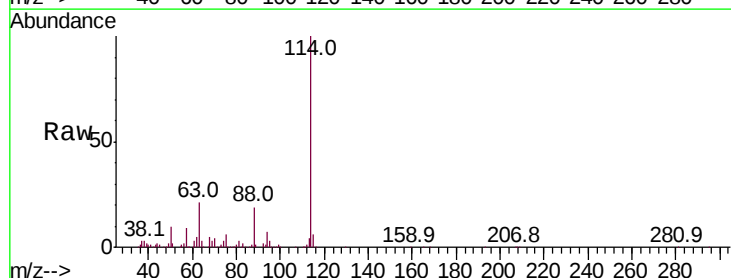
Delta R.T. 0.00 min

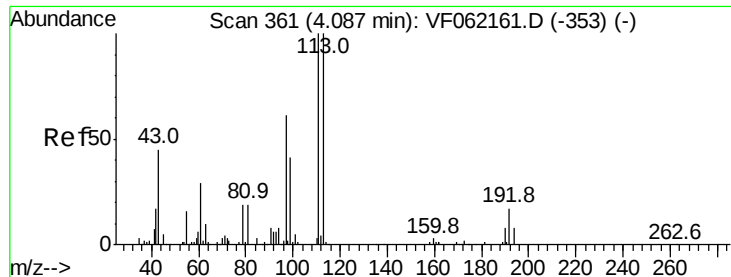
Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Tgt Ion: 114 Resp: 329601

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.8
88	18.7	0.0	31.4





#35

Dibromofluoromethane

Concen: 21.427 ug/l

RT: 4.09 min Scan# 361

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

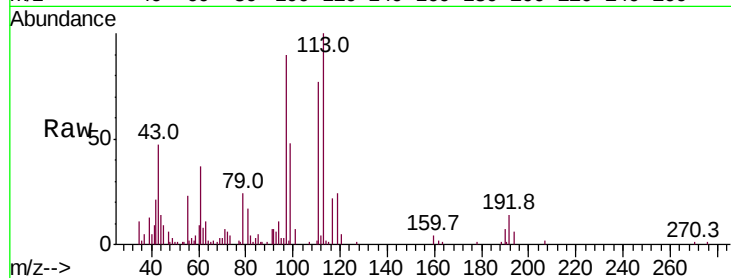
Tot Ion:113 Resp: 48699

Ion Ratio Lower Upper

113 100

111 77.2 79.8 119.6#

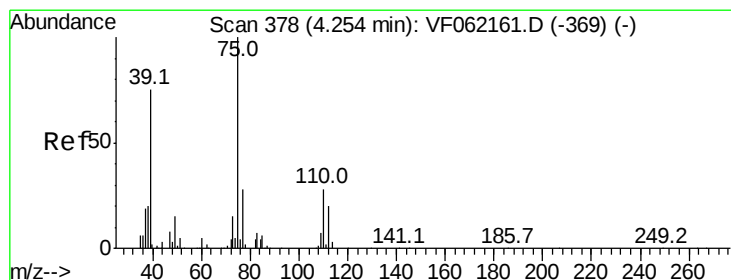
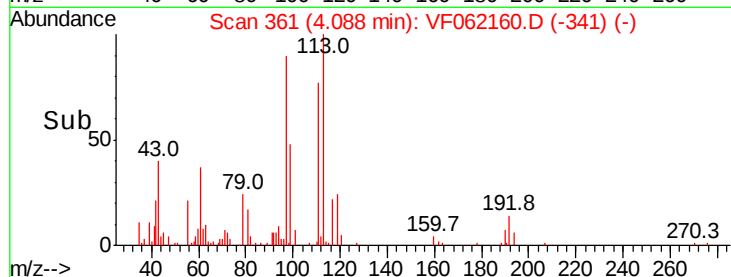
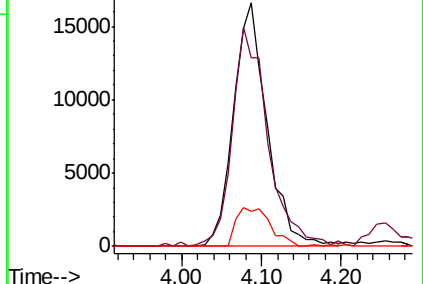
192 14.3 13.8 20.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 25.182 ug/l

RT: 4.25 min Scan# 378

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

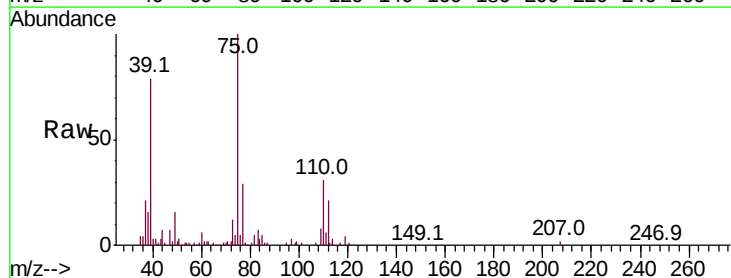
Tgt Ion: 75 Resp: 80842

Ion Ratio Lower Upper

75 100

110 31.4 13.9 41.7

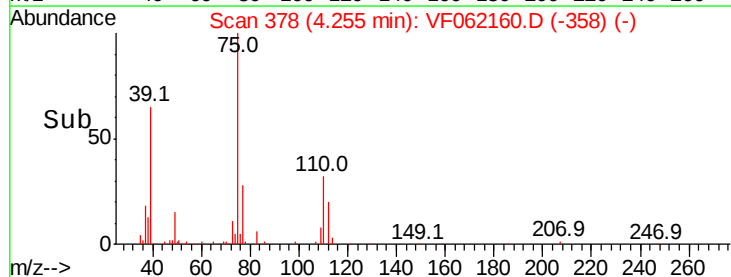
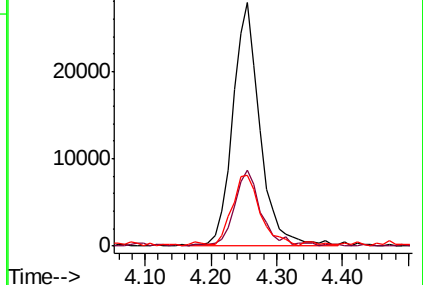
77 29.2 22.6 34.0

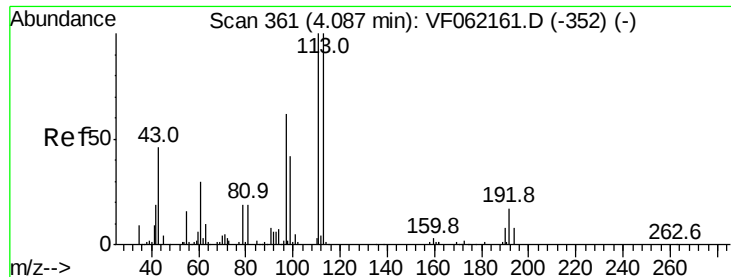


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 24.110 ug/l

RT: 4.09 min Scan# 361

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

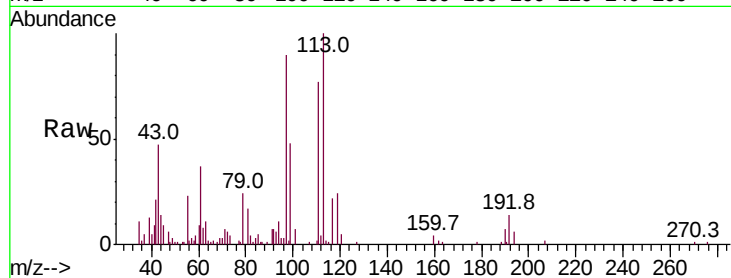
Tot Ion: 43 Resp: 33614

Ion Ratio Lower Upper

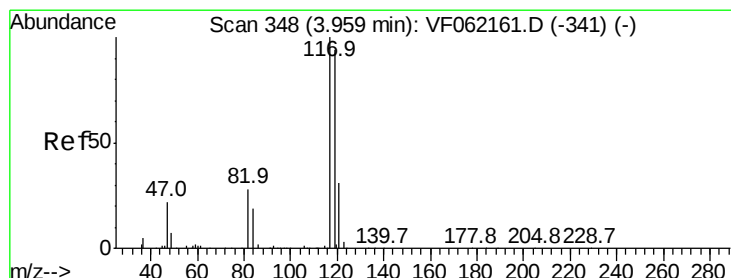
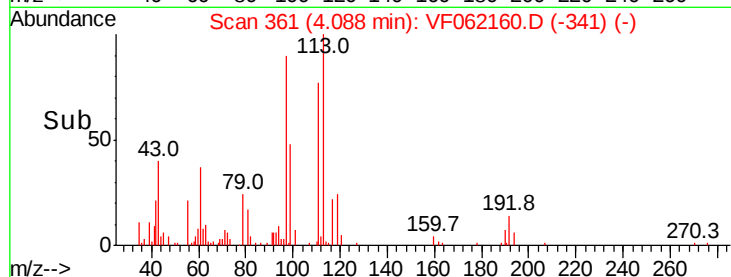
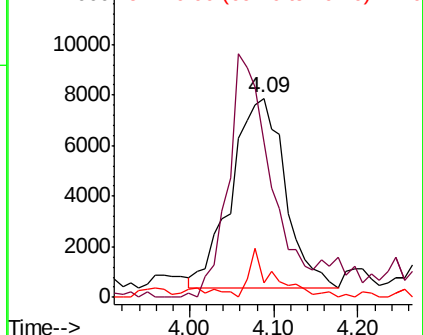
43 100

61 77.7 52.3 78.5

70 7.0 6.4 9.6



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: 28.159 ug/l

RT: 3.96 min Scan# 348

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

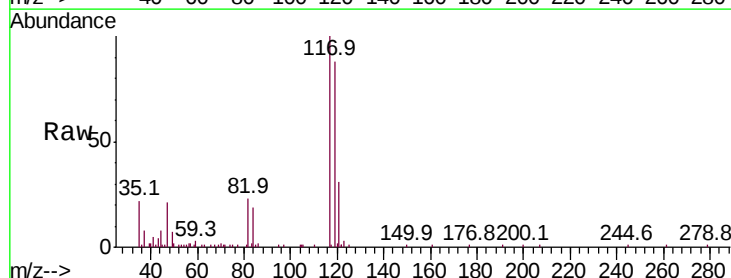
Tgt Ion: 117 Resp: 62907

Ion Ratio Lower Upper

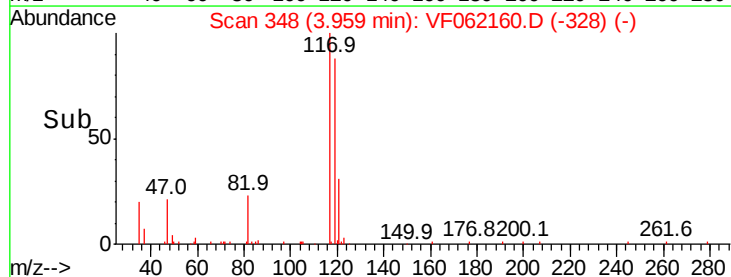
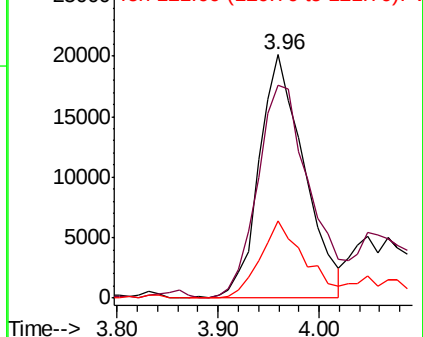
117 100

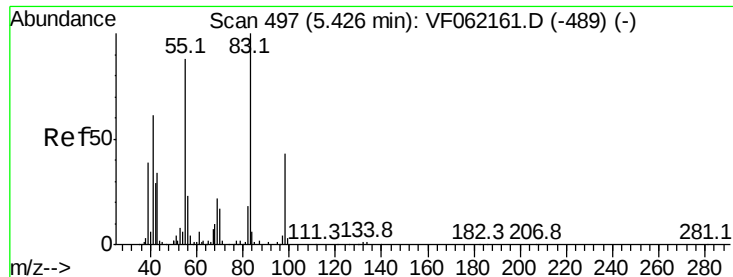
119 87.5 75.5 113.3

121 31.5 24.6 37.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

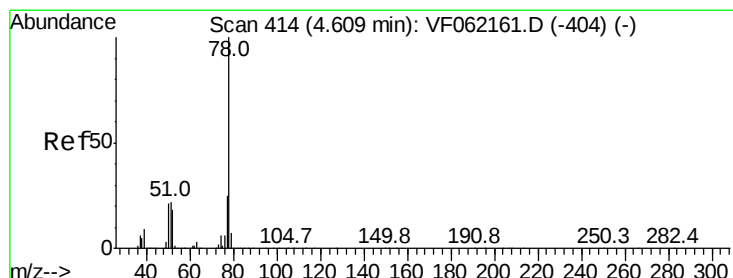
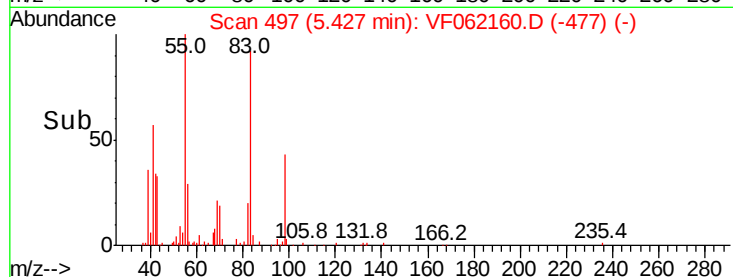
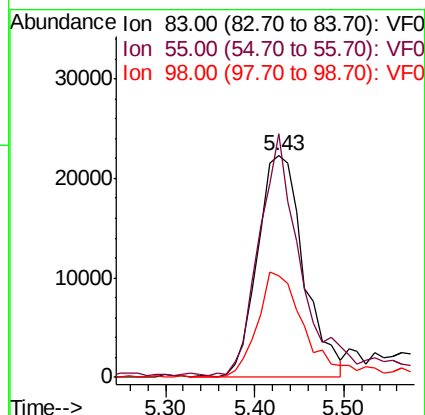
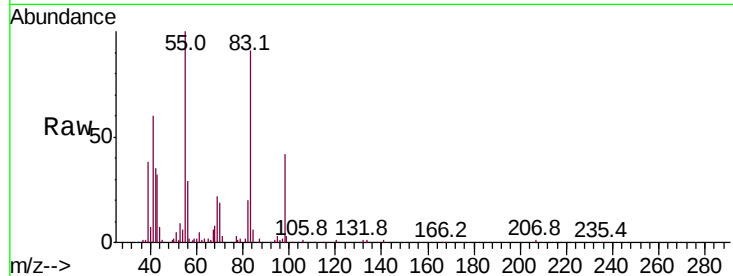




#39
Methvlcvclohexane
Concen: 22.505 ug/l
RT: 5.43 min Scan# 497
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

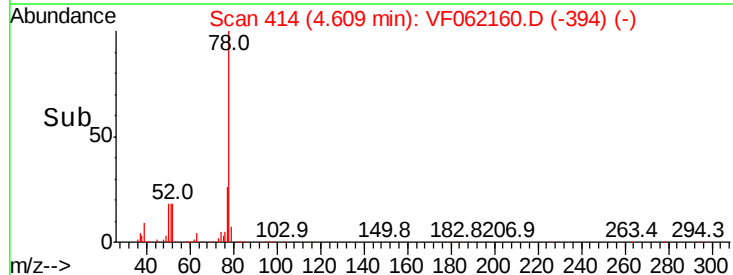
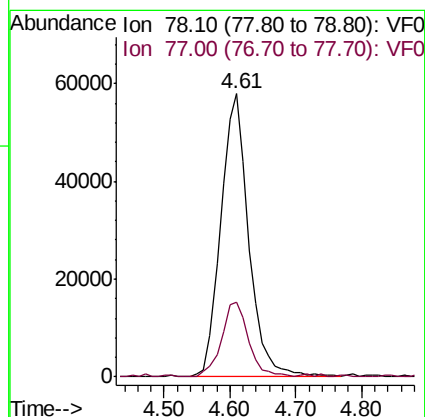
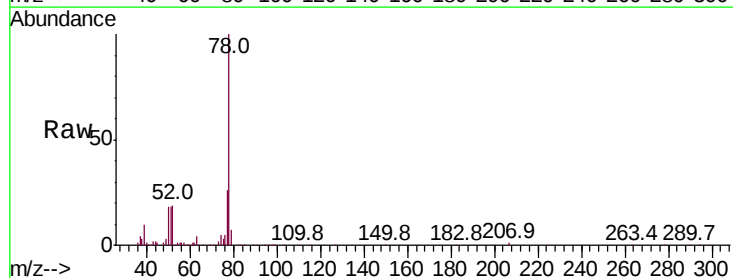
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

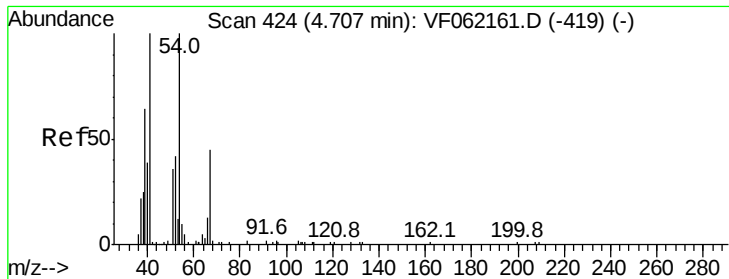
Tot Ion: 83 Resp: 80258
Ion Ratio Lower Upper
83 100
55 109.9 70.7 106.1#
98 45.9 34.6 51.8



#40
Benzene
Concen: 20.591 ug/l
RT: 4.61 min Scan# 414
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 78 Resp: 171037
Ion Ratio Lower Upper
78 100
77 26.3 19.9 29.9

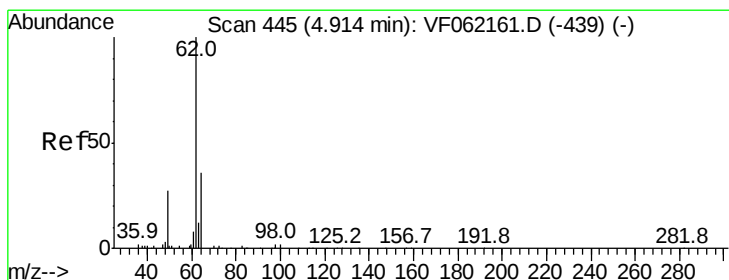
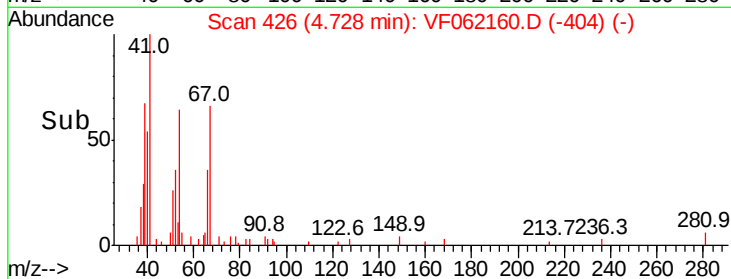
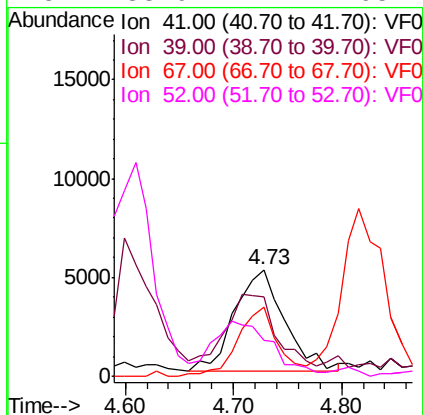
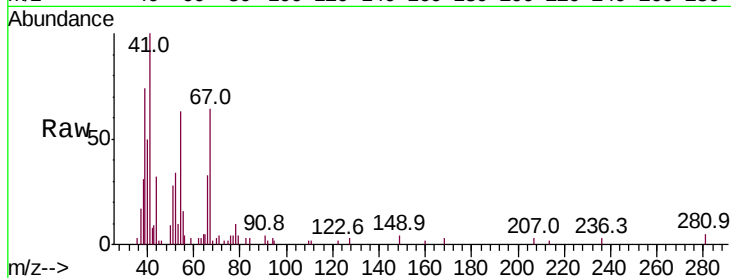




#41
Methacrylonitrile
Concen: 22.648 ug/l
RT: 4.73 min Scan# 426
Delta R.T. 0.02 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

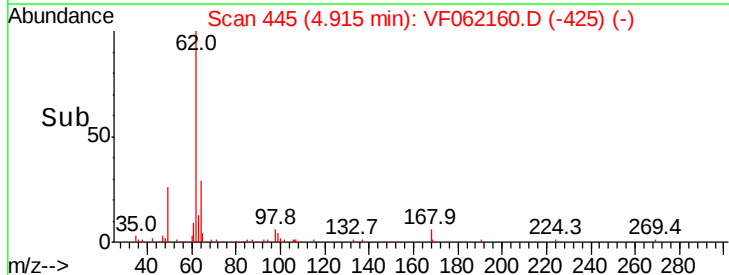
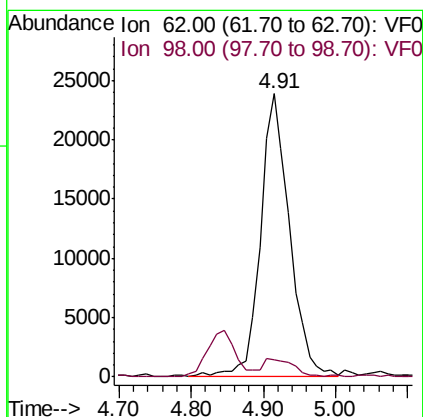
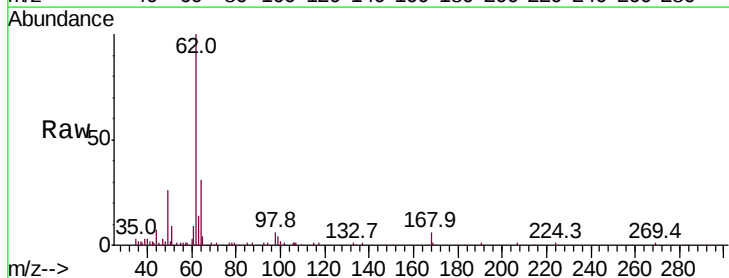
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

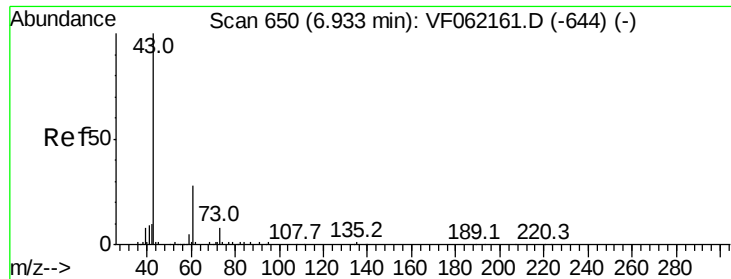
Tot Ion: 41 Resp: 16785
Ion Ratio Lower Upper
41 100
39 74.4 56.5 84.7
67 64.5 35.7 53.5#
52 33.9 42.2 63.4#



#42
1,2-Dichloroethane
Concen: 31.303 ug/l
RT: 4.91 min Scan# 445
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 62 Resp: 66632
Ion Ratio Lower Upper
62 100
98 6.3 0.0 14.2

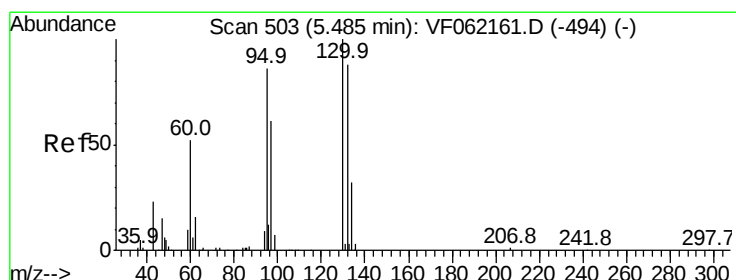
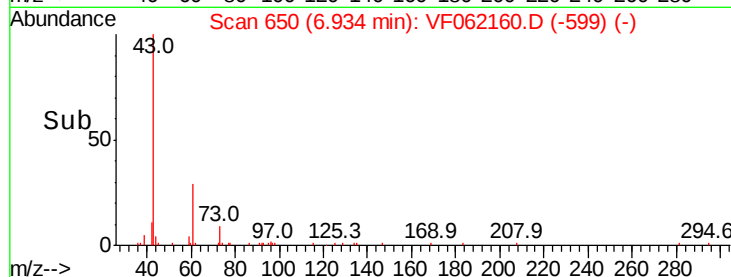
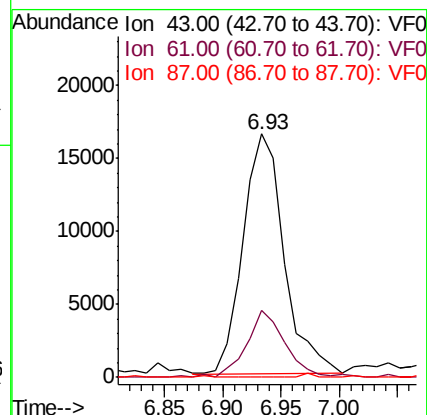
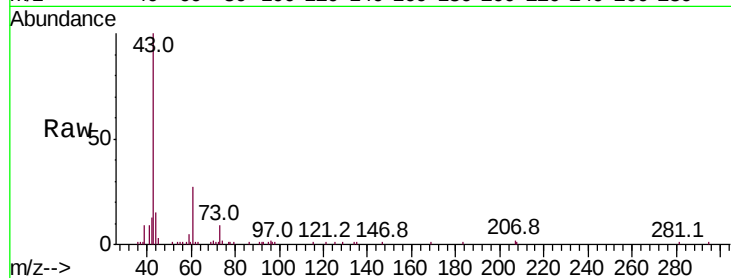




#43
Isopropyl Acetate
Concen: 24.186 ug/l
RT: 6.93 min Scan# 650
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

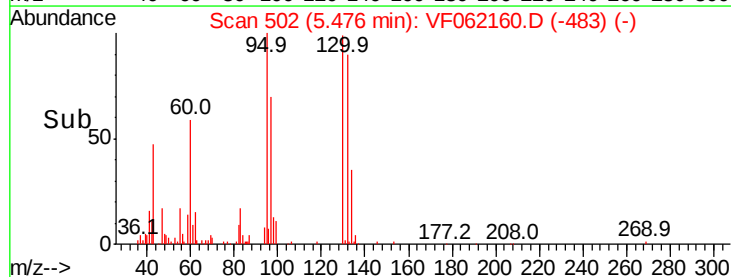
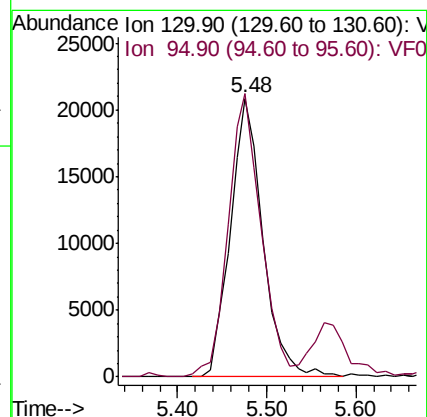
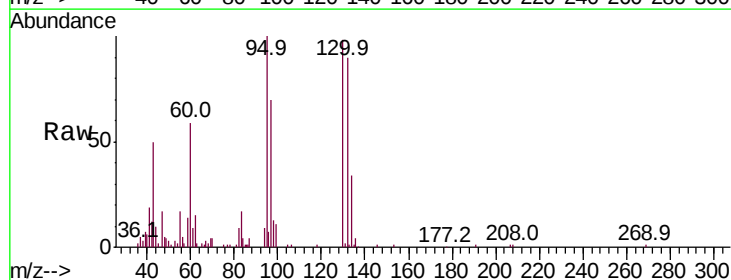
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

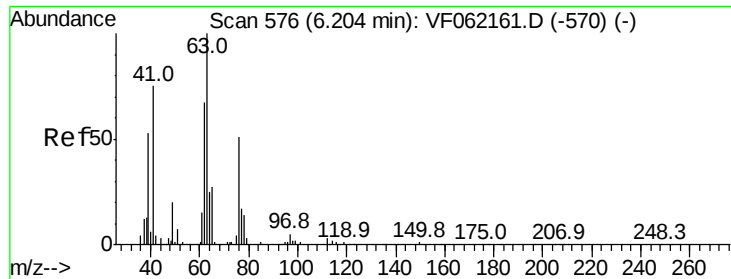
Tot Ion: 43 Resp: 40140
Ion Ratio Lower Upper
43 100
61 27.5 22.5 33.7
87 0.0 0.5 0.7#



#44
Trichloroethene
Concen: 20.920 ug/l
RT: 5.48 min Scan# 502
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion:130 Resp: 53276
Ion Ratio Lower Upper
130 100
95 101.7 0.0 172.2





#45

1,2-Dichloropropane

Concen: 20.732 ug/l

RT: 6.21 min Scan# 577

Delta R.T. 0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

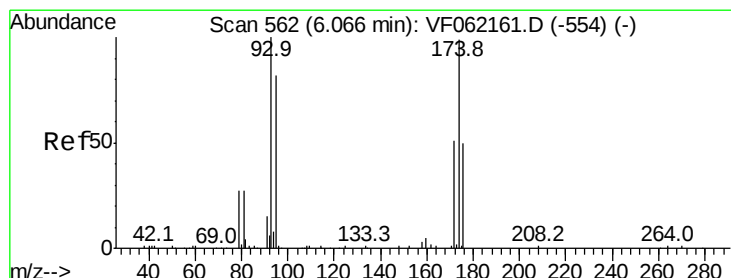
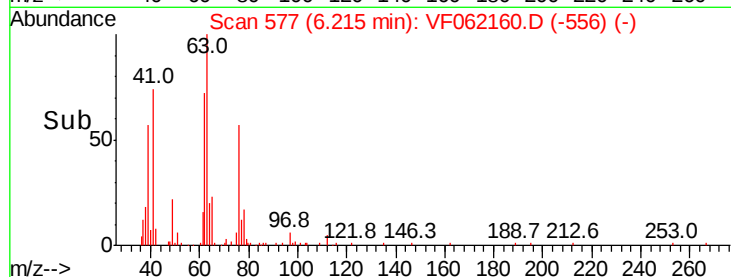
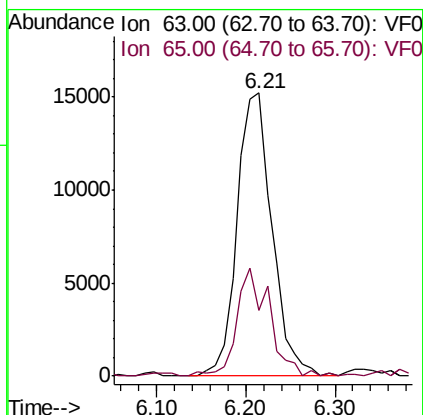
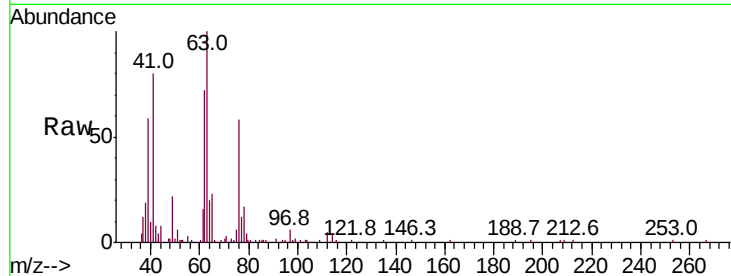
VSTDIC020

Tot Ion: 63 Resp: 41387

Ion Ratio Lower Upper

63 100

65 23.2 21.8 32.6



#46

Dibromomethane

Concen: 21.581 ug/l

RT: 6.07 min Scan# 562

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

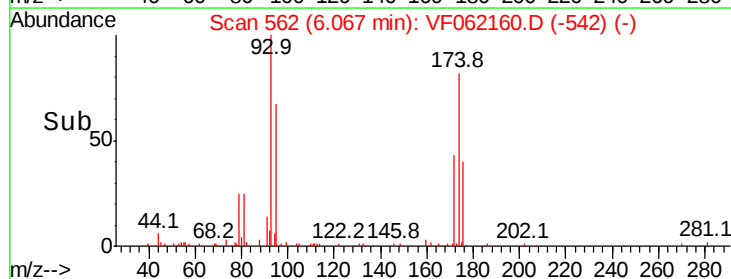
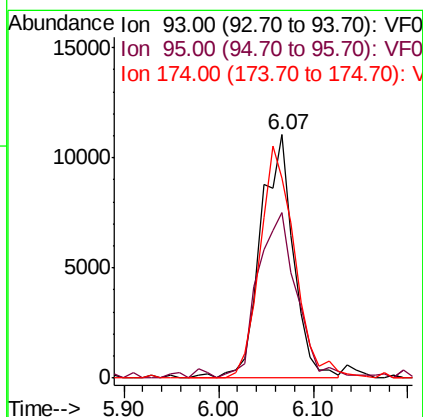
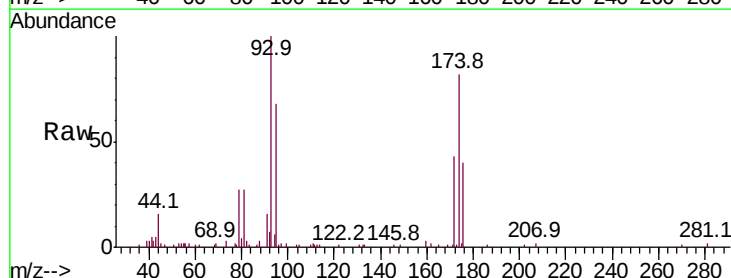
Tgt Ion: 93 Resp: 26661

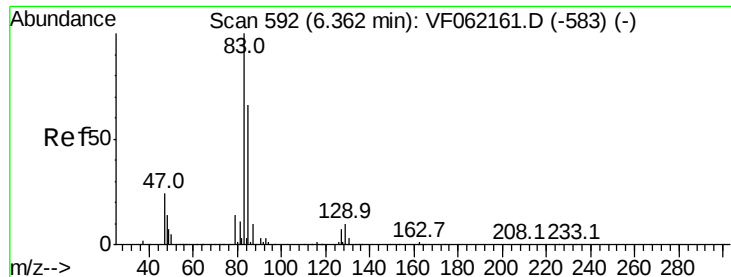
Ion Ratio Lower Upper

93 100

95 67.8 66.5 99.7

174 82.1 79.2 118.8





#47

Bromodichloromethane

Concen: 24.735 ug/l

RT: 6.35 min Scan# 591

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

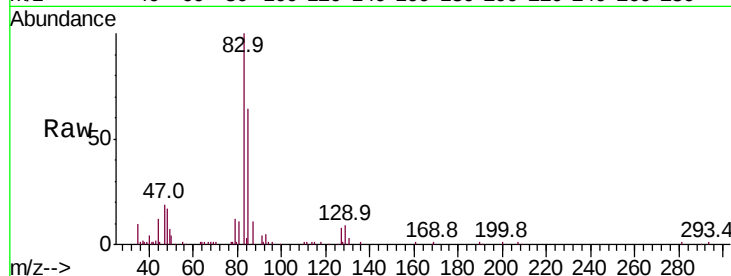
Tot Ion: 83 Resp: 69880

Ion Ratio Lower Upper

83 100

85 64.2 52.9 79.3

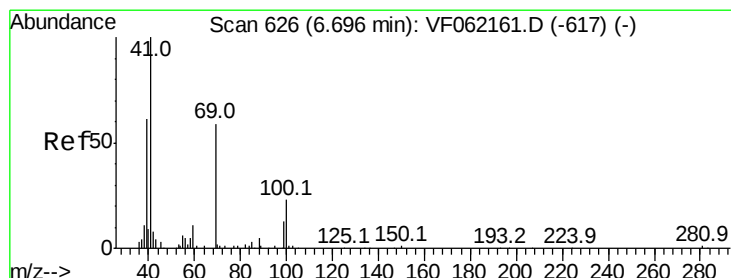
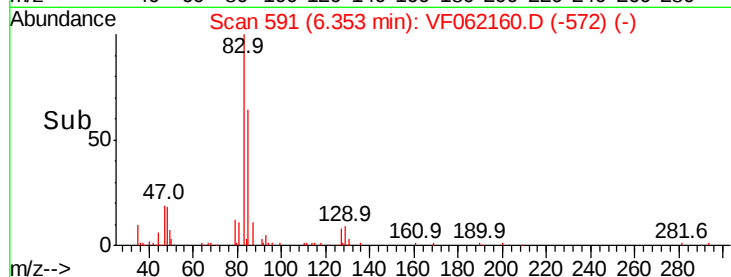
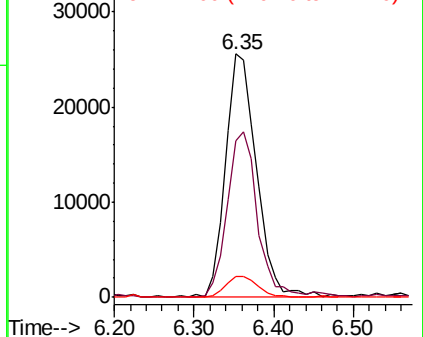
127 8.3 5.9 8.9



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: 29.681 ug/l

RT: 6.69 min Scan# 625

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

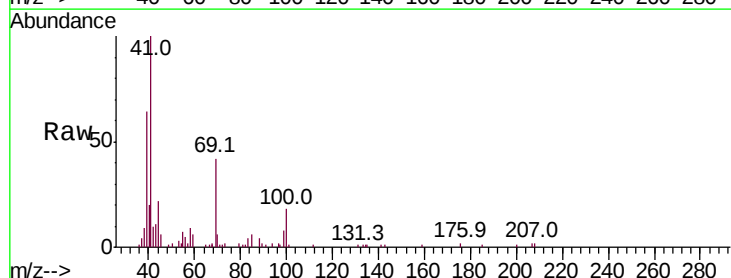
Tgt Ion: 41 Resp: 29661

Ion Ratio Lower Upper

41 100

69 42.1 46.7 70.1#

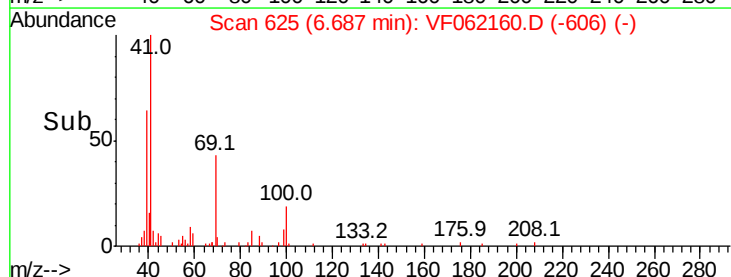
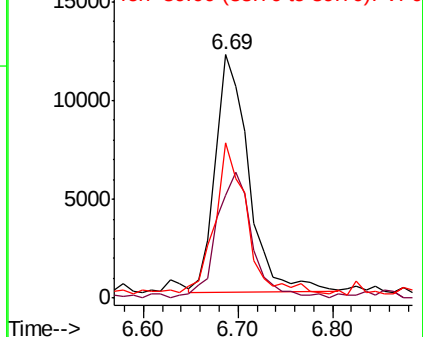
39 63.6 51.4 77.0

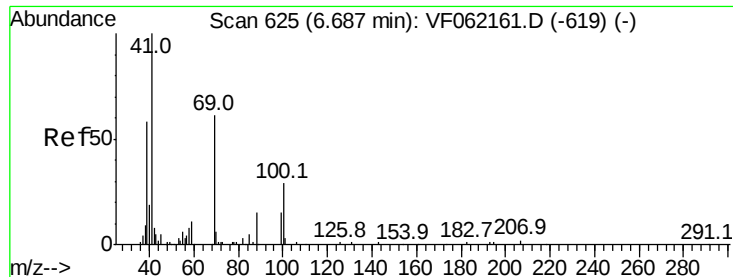


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

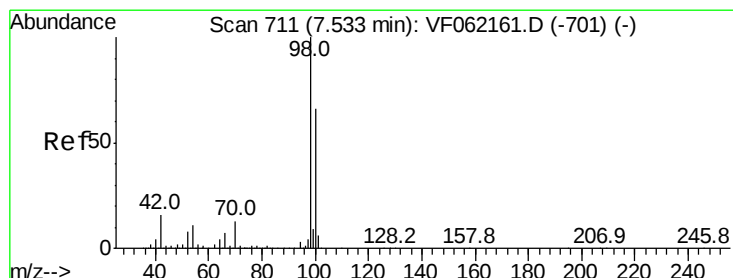
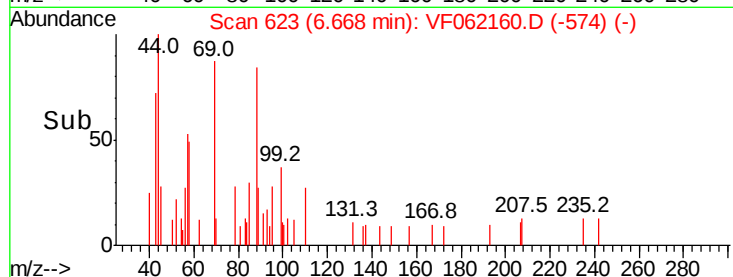
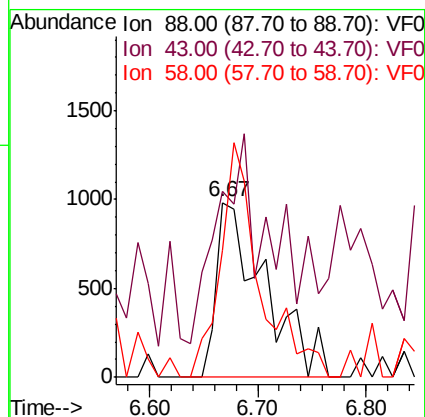
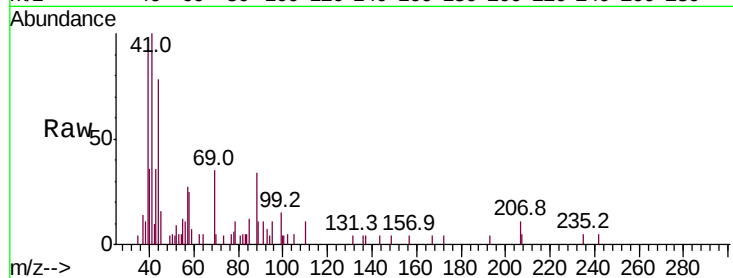




#49
1,4-Dioxane
Concen: 377.548 ug/l
RT: 6.67 min Scan# 623
Delta R.T. -0.02 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

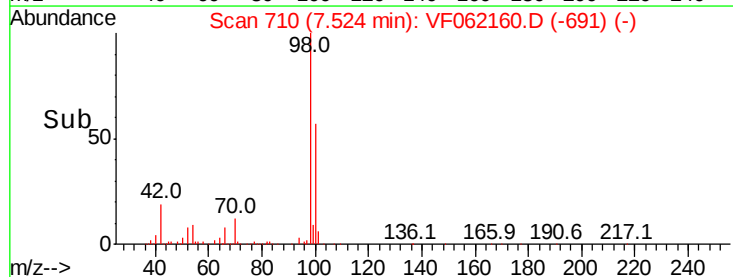
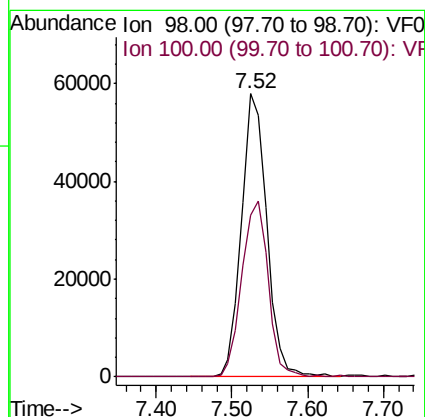
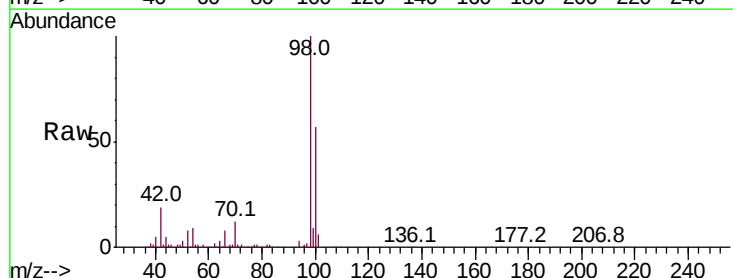
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

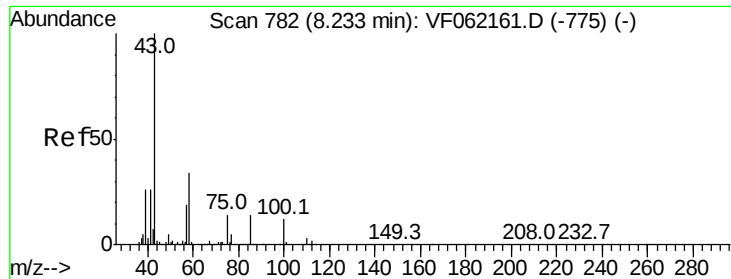
Tot Ion: 88 Resp: 3053
Ion Ratio Lower Upper
88 100
43 106.5 51.0 76.6#
58 72.6 41.3 61.9#



#50
Toluene-d8
Concen: 20.026 ug/l
RT: 7.52 min Scan# 710
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 98 Resp: 134850
Ion Ratio Lower Upper
98 100
100 57.0 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 123.746 ug/l

RT: 8.23 min Scan# 782

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

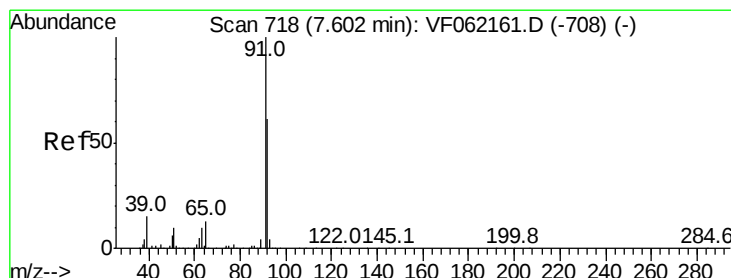
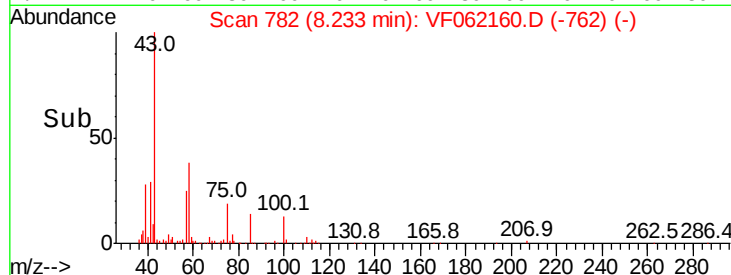
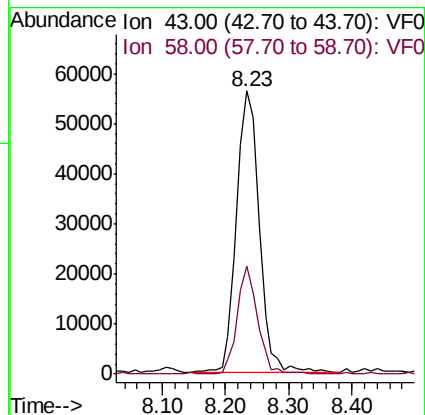
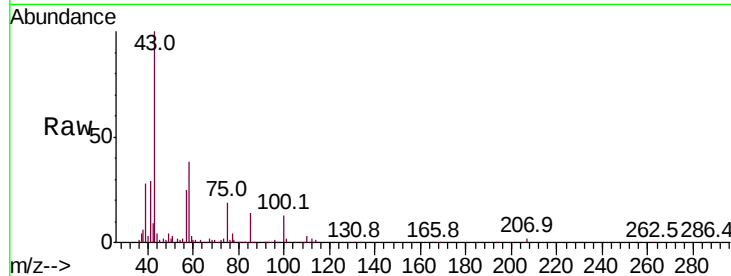
VSTDIC020

Tot Ion: 43 Resp: 140687

Ion Ratio Lower Upper

43 100

58 38.4 27.0 40.4



#52

Toluene

Concen: 23.070 ug/l

RT: 7.60 min Scan# 718

Delta R.T. 0.00 min

Lab File: VF062160.D

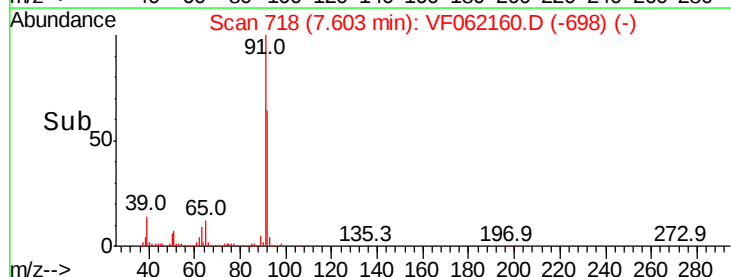
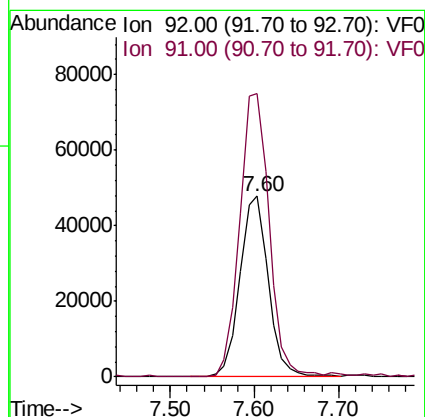
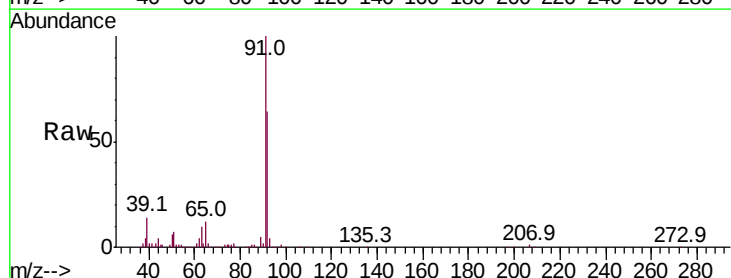
Acq: 4 Apr 2019 16:37

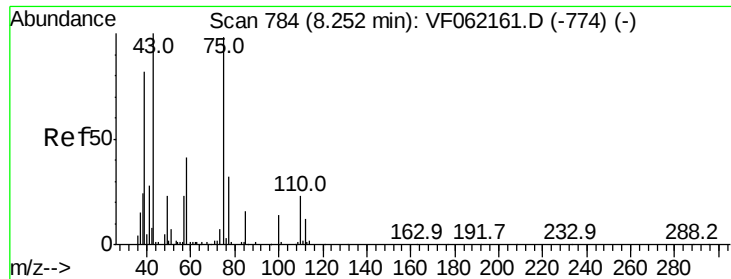
Tgt Ion: 92 Resp: 113013

Ion Ratio Lower Upper

92 100

91 156.8 130.8 196.2





#53

t-1,3-Dichloropropene

Concen: 27.445 ug/l

RT: 8.25 min Scan# 784

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

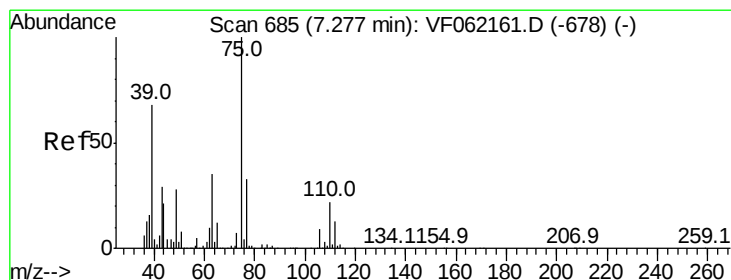
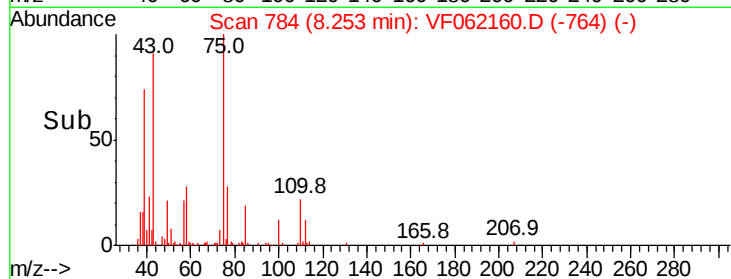
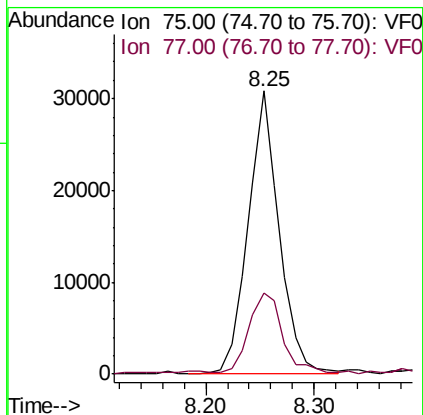
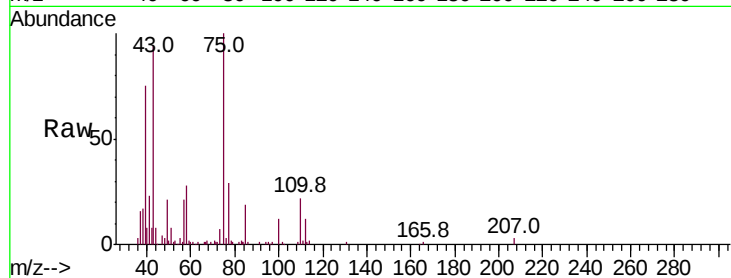
VSTDIC020

Tot Ion: 75 Resp: 61379

Ion Ratio Lower Upper

75 100

77 28.6 26.6 39.8



#54

cis-1,3-Dichloropropene

Concen: 23.517 ug/l

RT: 7.28 min Scan# 685

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

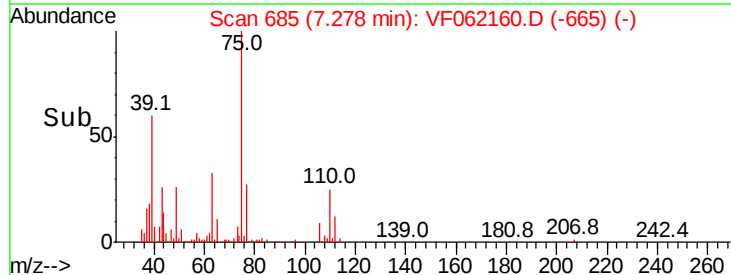
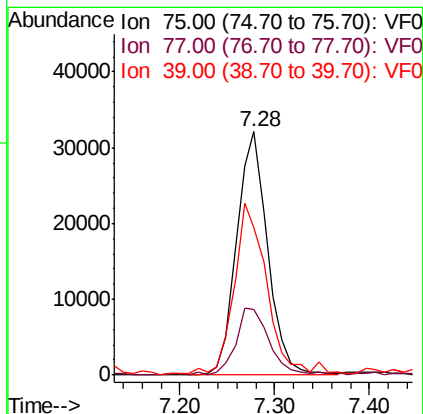
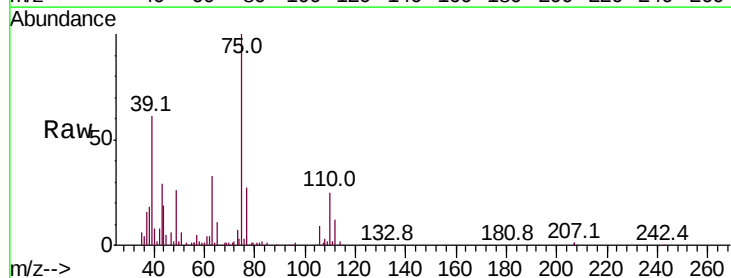
Tgt Ion: 75 Resp: 72788

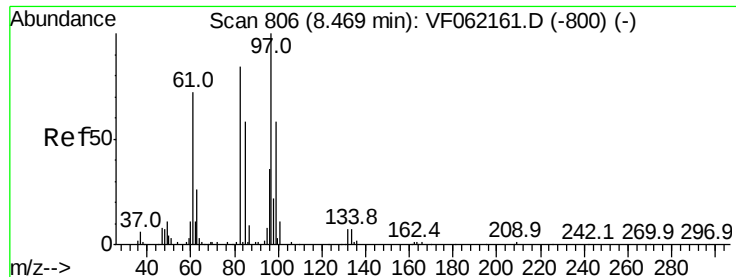
Ion Ratio Lower Upper

75 100

77 27.2 26.7 40.1

39 60.5 55.0 82.4





#55

1,1,2-Trichloroethane

Concen: 21.753 ug/l

RT: 8.46 min Scan# 805

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

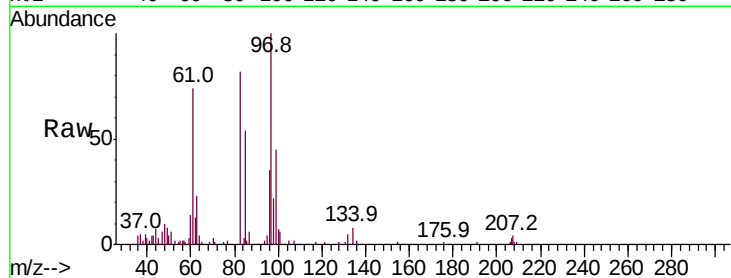
ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 29923

Ion Ratio Lower Upper

97	100		
83	82.0	67.4	101.0
85	53.8	46.6	70.0
99	45.4	46.5	69.7#

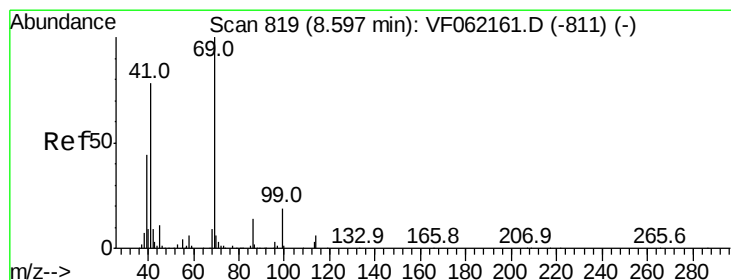
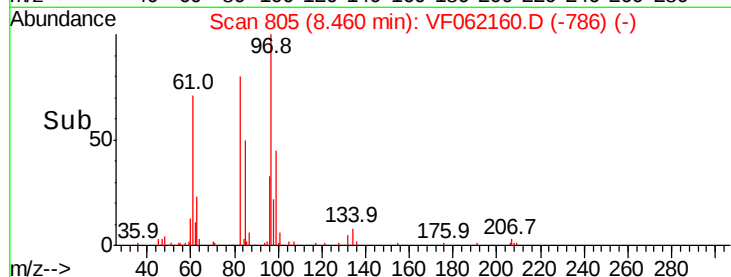
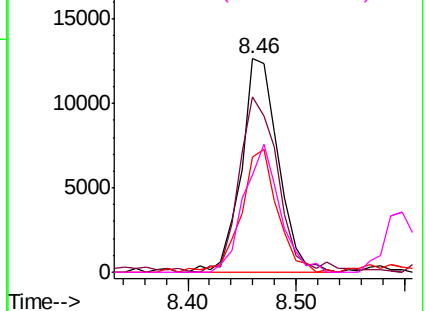


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 23.719 ug/l

RT: 8.60 min Scan# 819

Delta R.T. 0.00 min

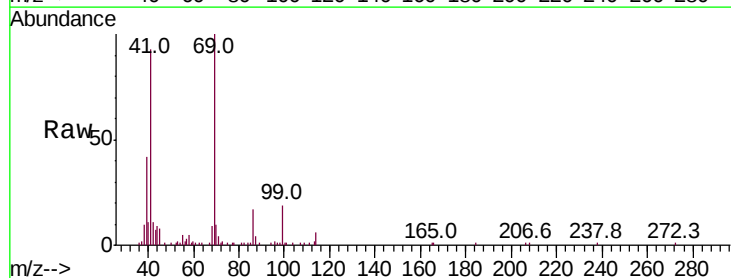
Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Tgt Ion: 69 Resp: 39694

Ion Ratio Lower Upper

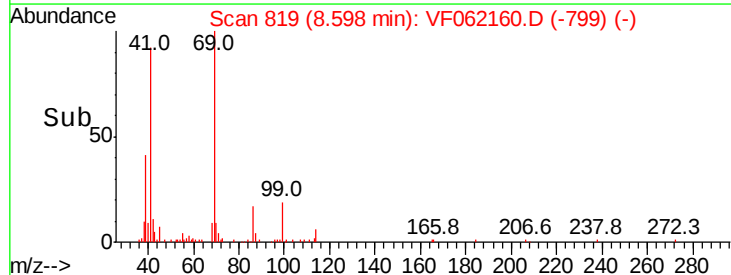
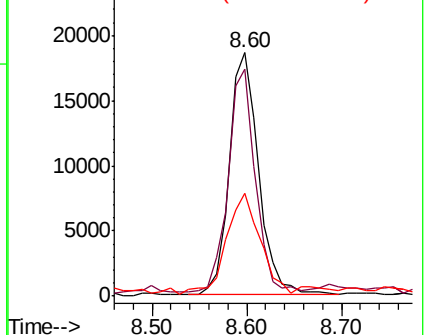
69	100		
41	93.2	63.0	94.4
39	42.1	36.1	54.1

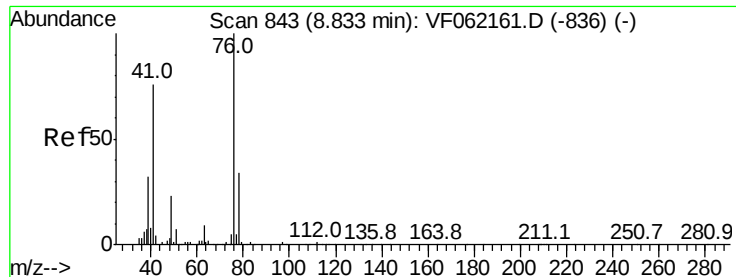


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.969 ug/l

RT: 8.82 min Scan# 842

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

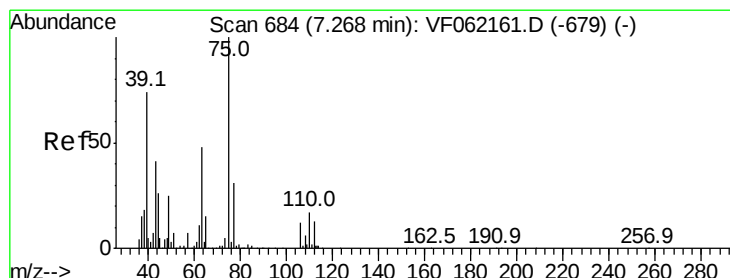
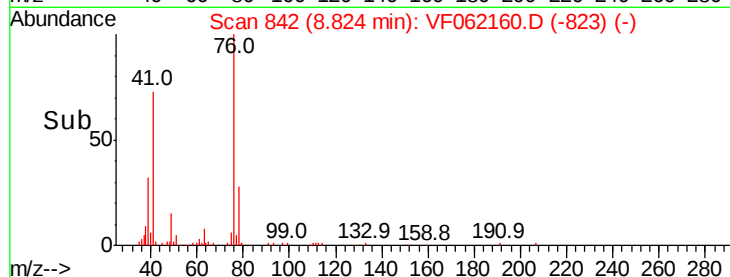
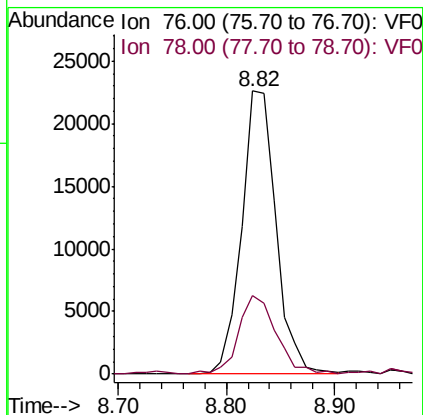
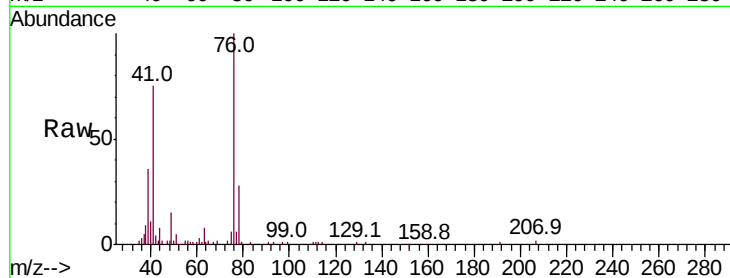
VSTDIC020

Tot Ion: 76 Resp: 50128

Ion Ratio Lower Upper

76 100

78 27.7 27.4 41.2



#58

2-Chloroethyl Vinyl ether

Concen: 108.753 ug/l

RT: 7.27 min Scan# 684

Delta R.T. 0.00 min

Lab File: VF062160.D

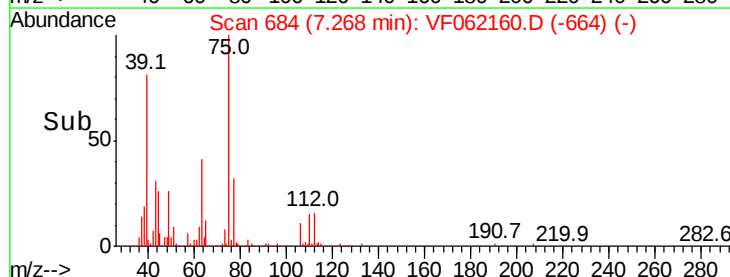
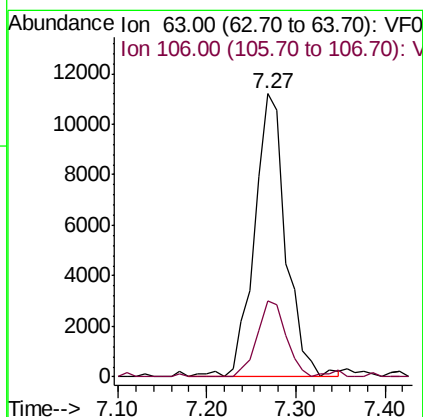
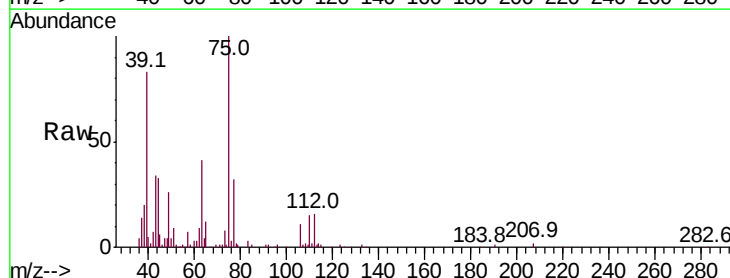
Acq: 4 Apr 2019 16:37

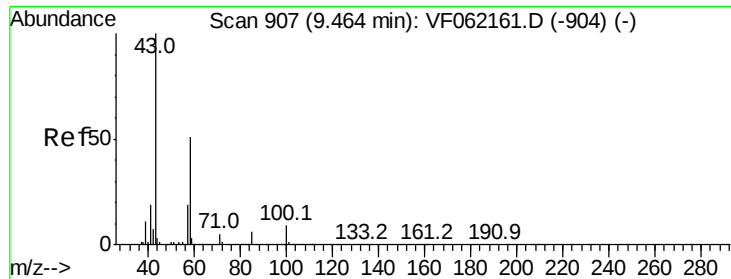
Tgt Ion: 63 Resp: 27331

Ion Ratio Lower Upper

63 100

106 27.1 20.6 31.0





#59

2-Hexanone

Concen: 121.007 ug/l

RT: 9.46 min Scan# 907

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

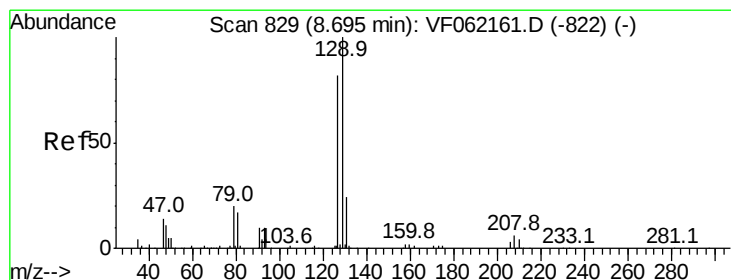
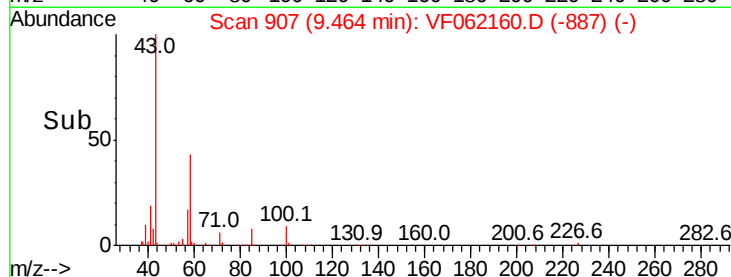
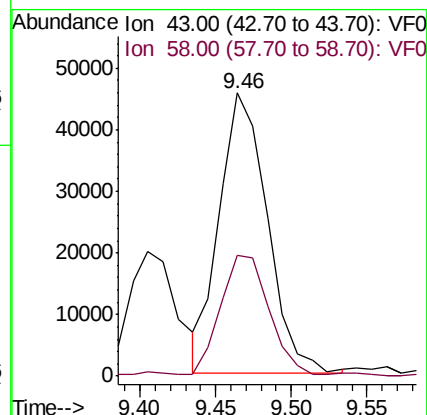
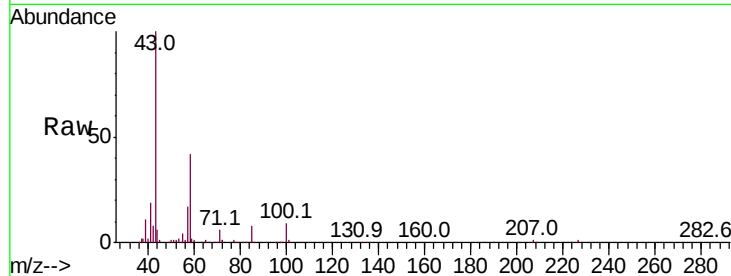
VSTDIC020

Tot Ion: 43 Resp: 100146

Ion Ratio Lower Upper

43 100

58 42.5 23.3 69.9



#60

Dibromochloromethane

Concen: 23.590 ug/l

RT: 8.70 min Scan# 829

Delta R.T. 0.00 min

Lab File: VF062160.D

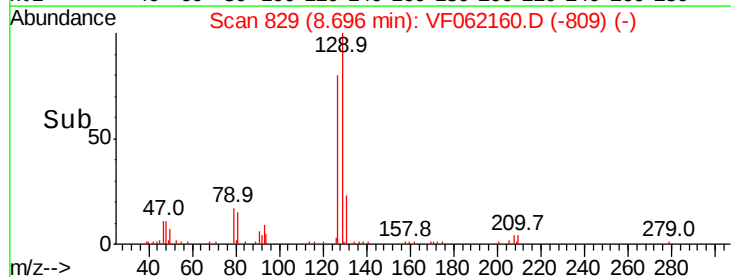
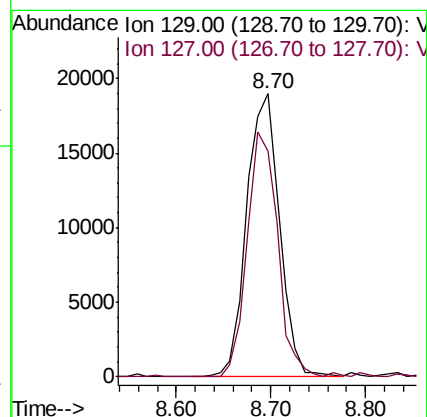
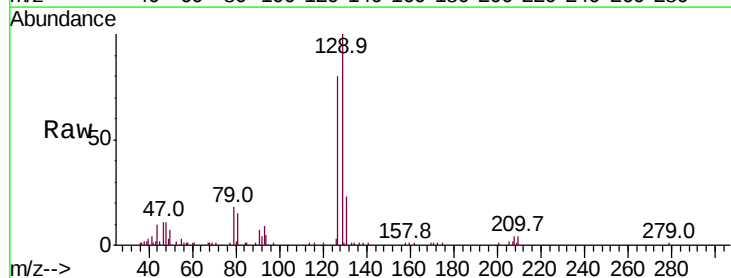
Acq: 4 Apr 2019 16:37

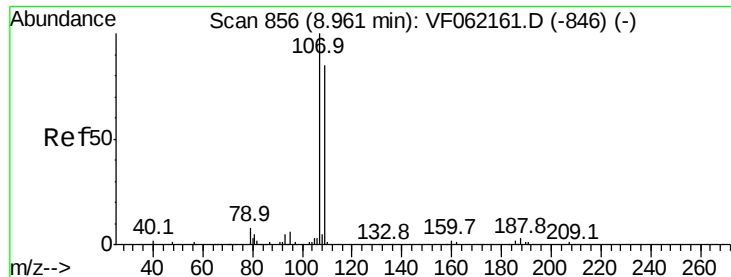
Tgt Ion:129 Resp: 45718

Ion Ratio Lower Upper

129 100

127 78.6 40.9 122.7





#61

1,2-Dibromoethane

Concen: 20.907 ug/l

RT: 8.96 min Scan# 856

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

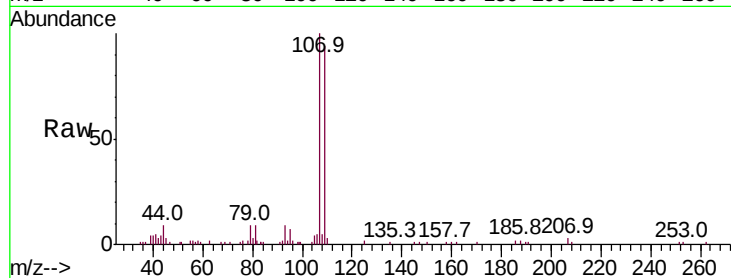
VSTDIC020

Tot Ion:107 Resp: 30649

Ion Ratio Lower Upper

107 100

109 93.6 68.4 102.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.96

15000

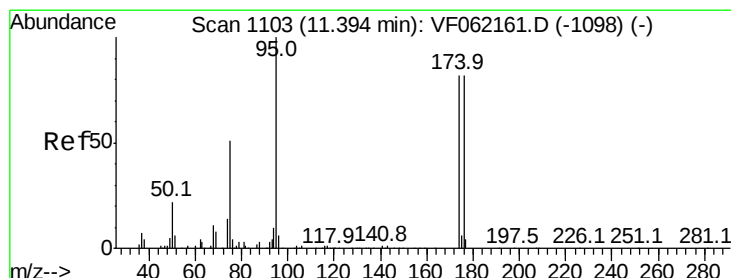
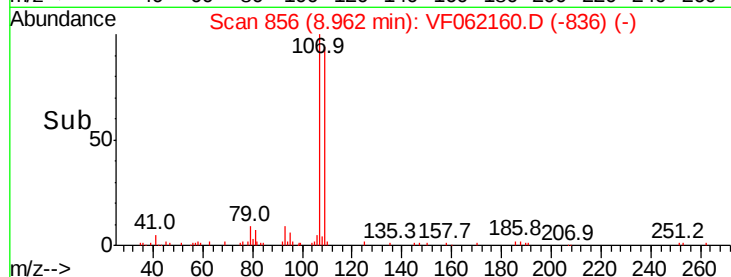
10000

5000

0

Time-->

8.85 8.90 8.95 9.00 9.05



#62

4-Bromofluorobenzene

Concen: 20.895 ug/l

RT: 11.39 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

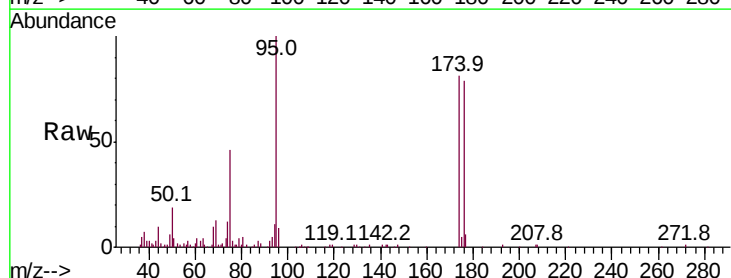
Tgt Ion: 95 Resp: 54786

Ion Ratio Lower Upper

95 100

174 80.7 0.0 164.8

176 78.7 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.39

40000

30000

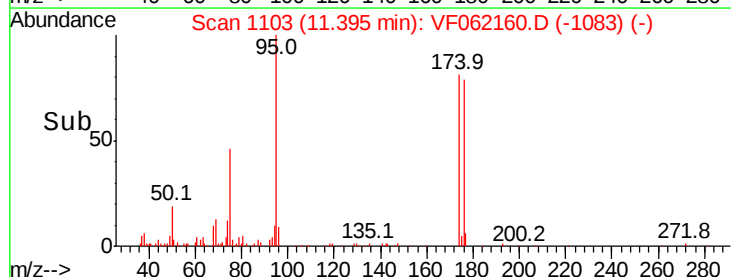
20000

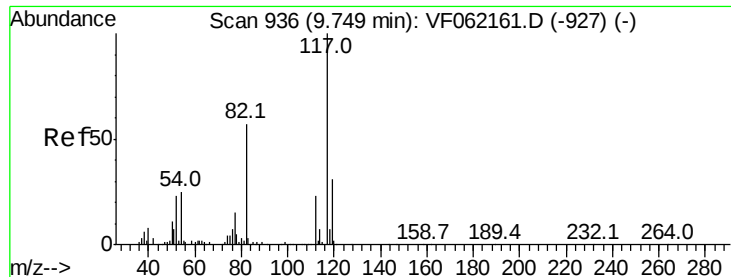
10000

0

Time-->

11.30 11.40 11.50

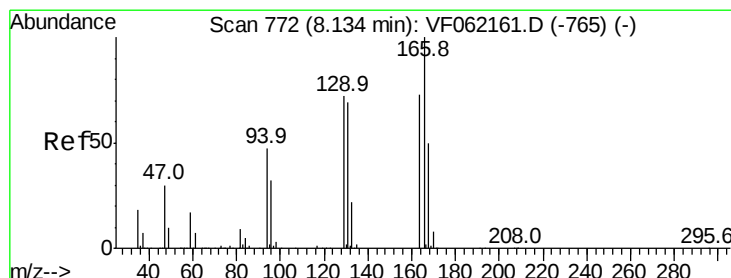
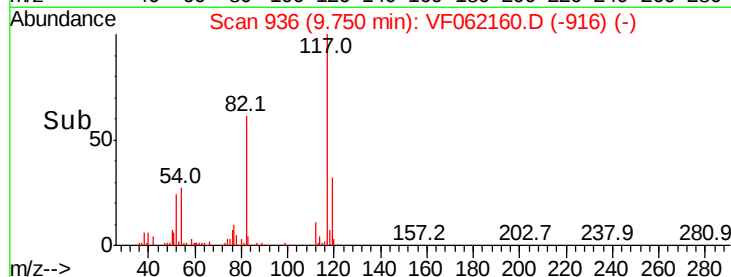
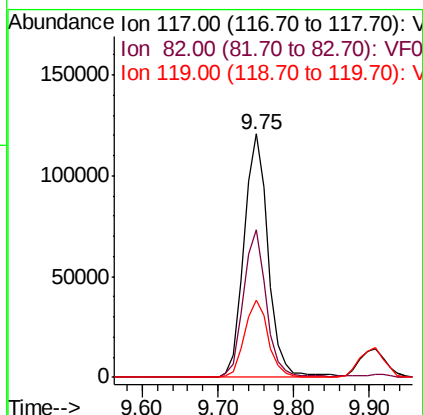
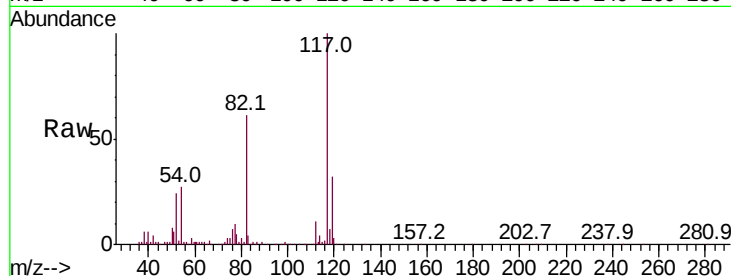




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 936
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

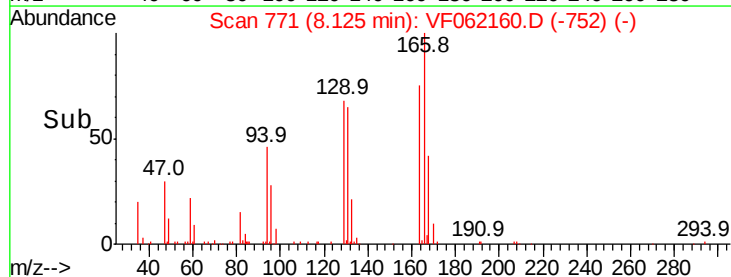
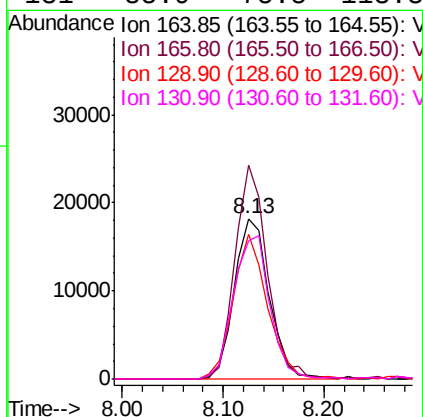
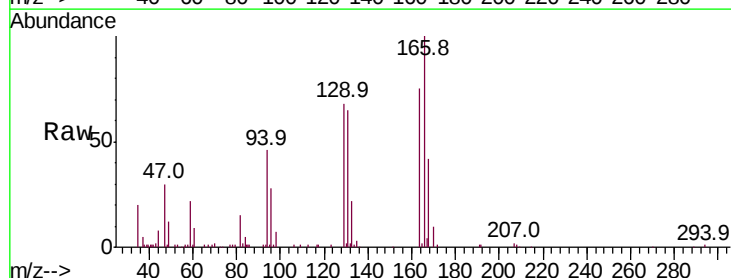
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

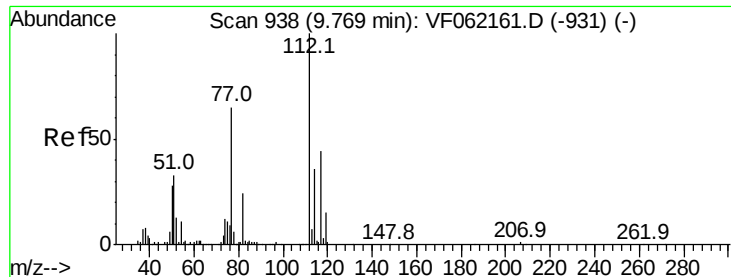
Tot Ion:117 Resp: 266358
Ion Ratio Lower Upper
117 100
82 60.8 45.5 68.3
119 31.8 24.9 37.3



#64
Tetrachloroethene
Concen: 21.283 ug/l
RT: 8.13 min Scan# 771
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion:164 Resp: 43661
Ion Ratio Lower Upper
164 100
166 133.0 110.2 165.2
129 90.3 79.0 118.6
131 85.9 75.5 113.3





#65

Chlorobenzene

Concen: 21.613 ug/l

RT: 9.77 min Scan# 938

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

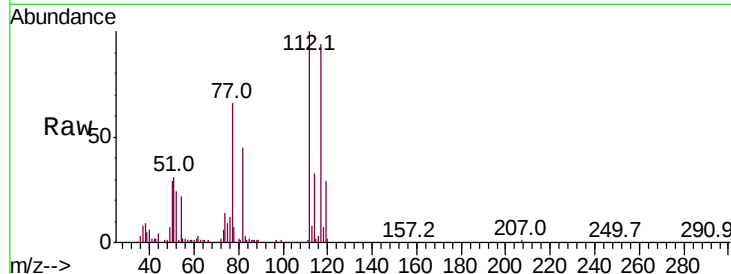
VSTDIC020

Tot Ion:112 Resp: 108690

Ion Ratio Lower Upper

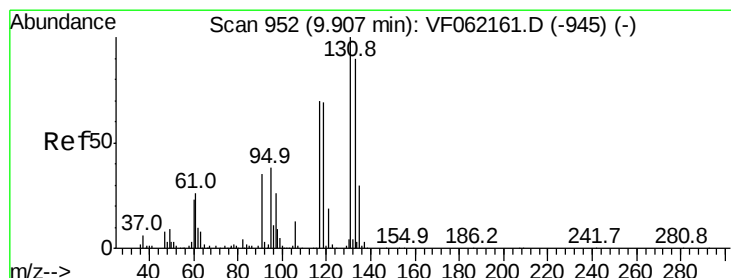
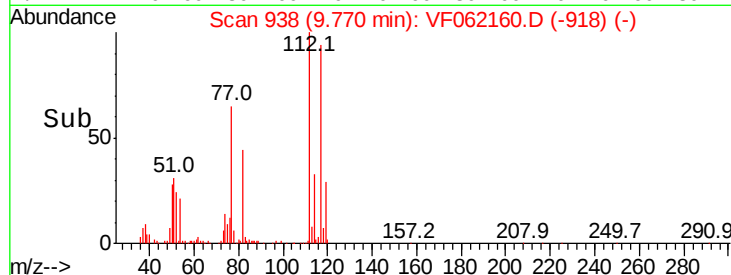
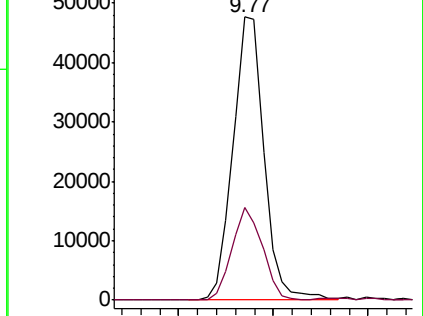
112 100

114 32.6 28.6 43.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 24.598 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

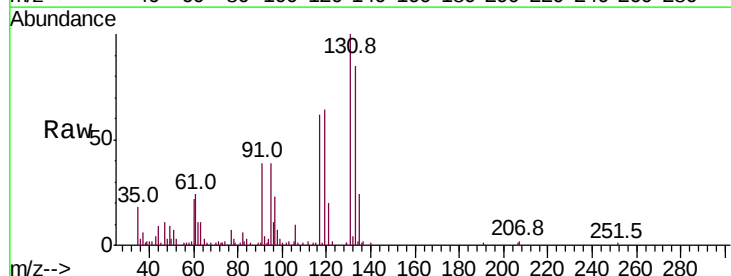
Tgt Ion:131 Resp: 50480

Ion Ratio Lower Upper

131 100

133 85.1 45.1 135.3

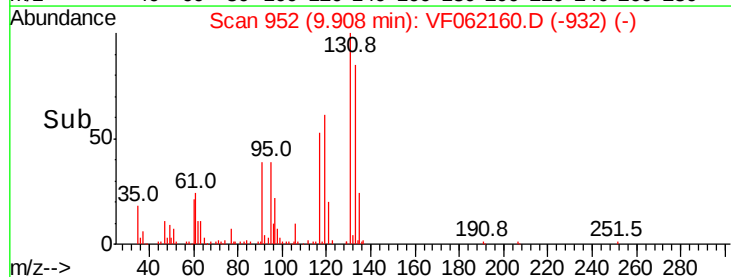
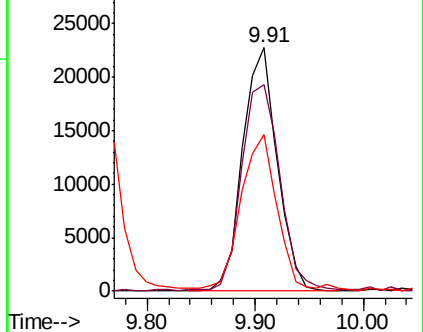
119 64.1 34.9 104.7

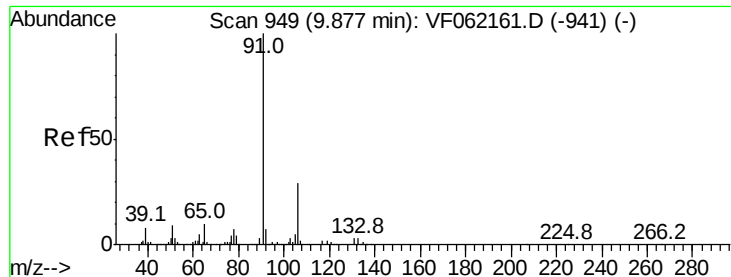


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 24.300 ug/l

RT: 9.88 min Scan# 949

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

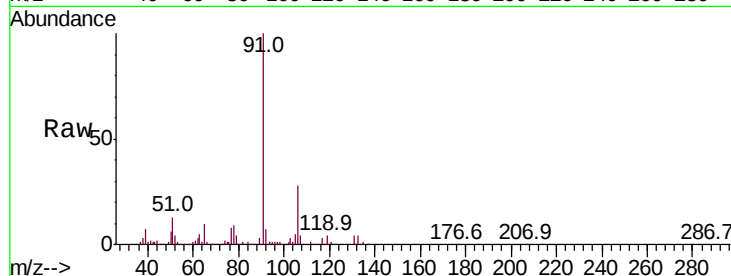
VSTDIC020

Tot Ion: 91 Resp: 217383

Ion Ratio Lower Upper

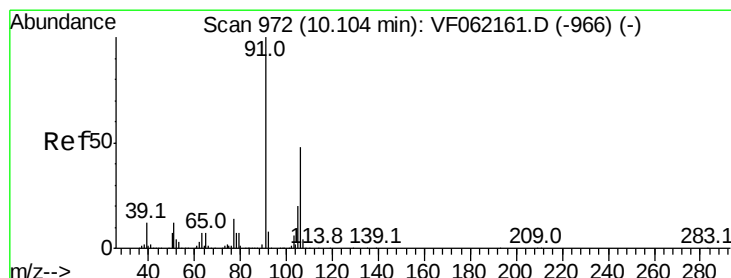
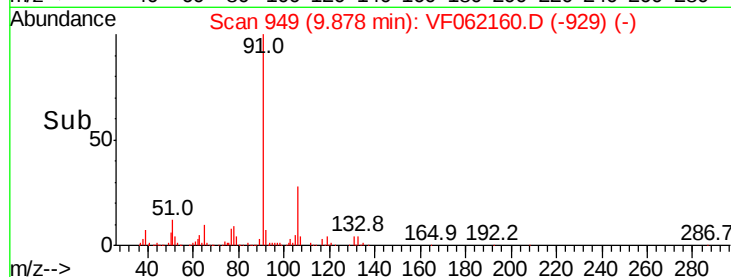
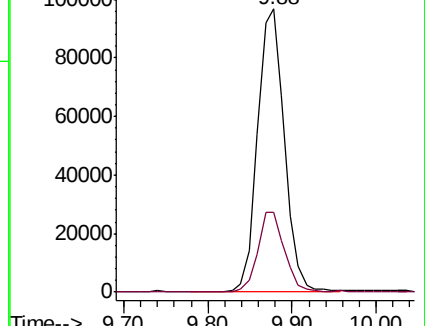
91 100

106 28.4 23.2 34.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 47.486 ug/l

RT: 10.10 min Scan# 972

Delta R.T. 0.00 min

Lab File: VF062160.D

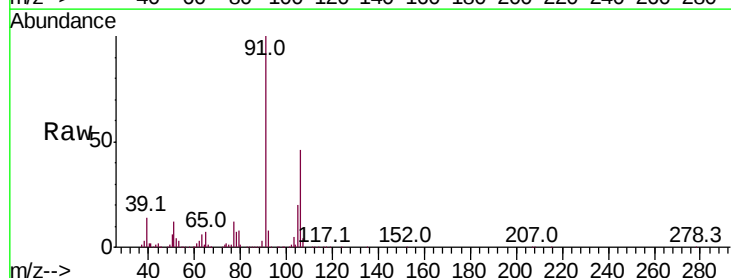
Acq: 4 Apr 2019 16:37

Tgt Ion:106 Resp: 158069

Ion Ratio Lower Upper

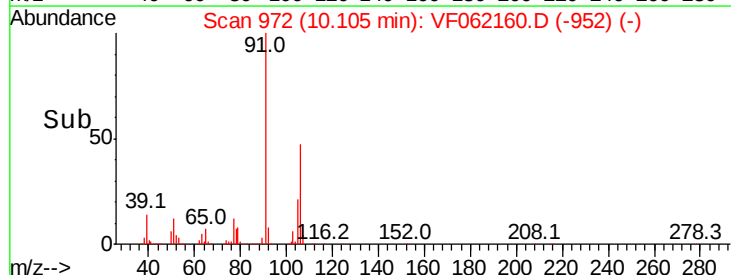
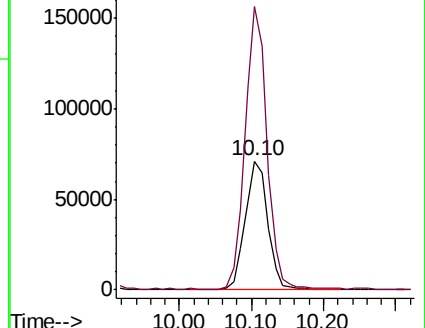
106 100

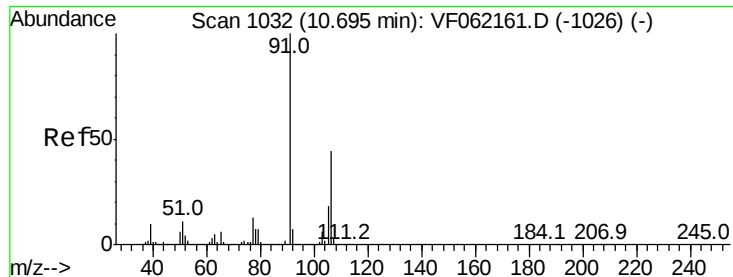
91 219.2 167.3 250.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

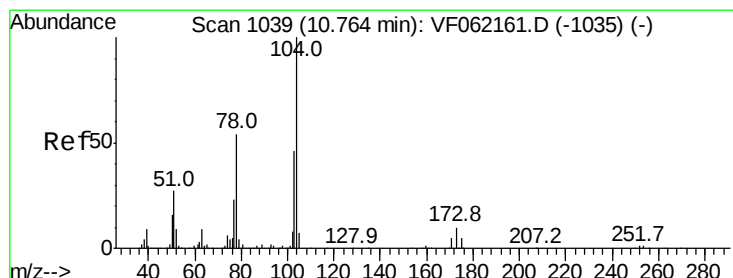
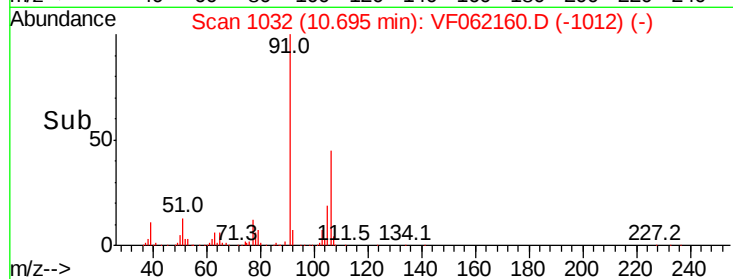
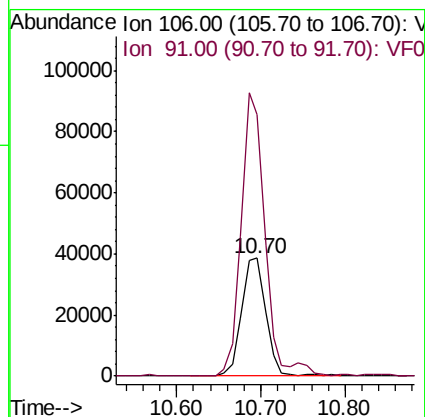
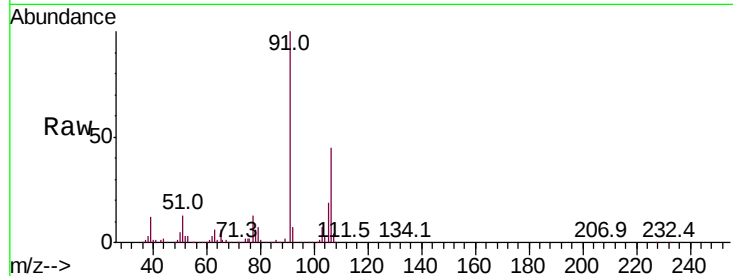




#69
o-Xylene
Concen: 22.919 ug/l
RT: 10.70 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

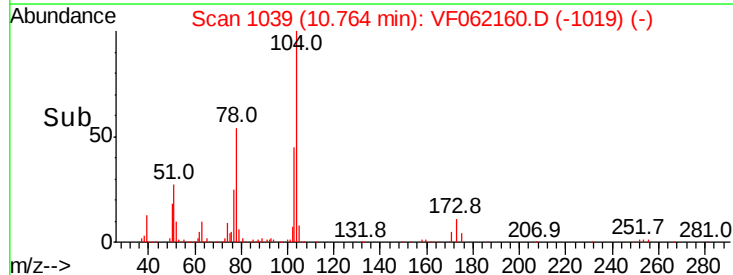
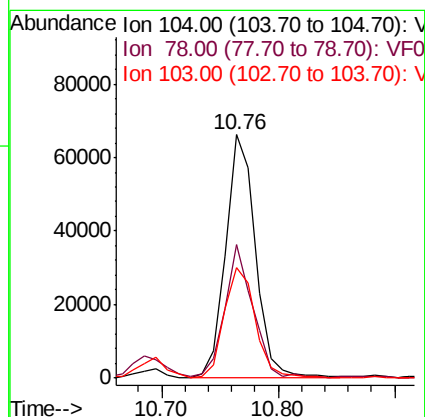
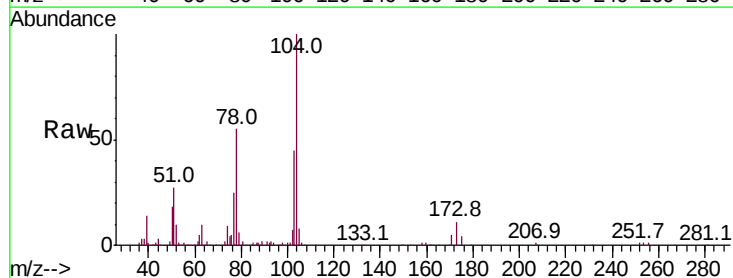
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

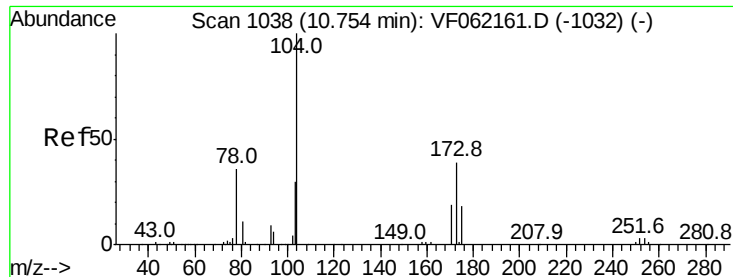
Tot Ion:106 Resp: 78148
Ion Ratio Lower Upper
106 100
91 222.2 113.3 340.1



#70
Styrene
Concen: 22.139 ug/l
RT: 10.76 min Scan# 1039
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion:104 Resp: 116541
Ion Ratio Lower Upper
104 100
78 54.6 43.1 64.7
103 45.2 37.0 55.6





#71

Bromoform

Concen: 24.243 ug/l

RT: 10.75 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

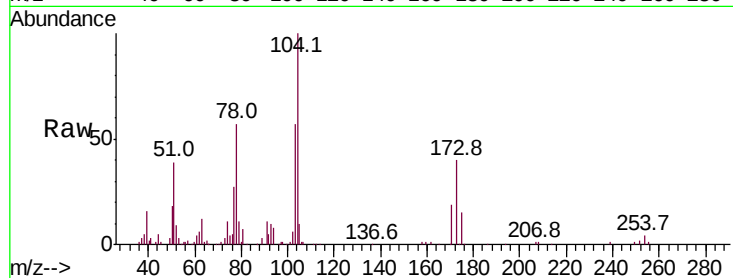
Tot Ion:173 Resp: 25546

Ion Ratio Lower Upper

173 100

175 37.8 22.9 68.7

254 8.9 6.7 10.1

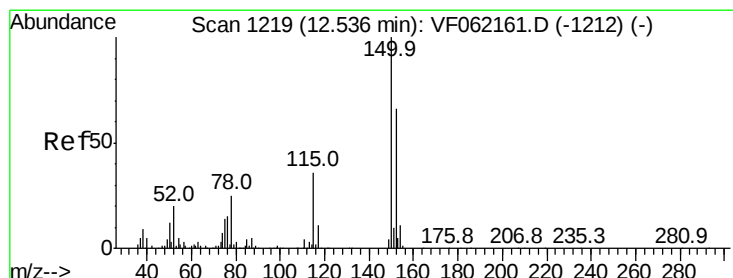
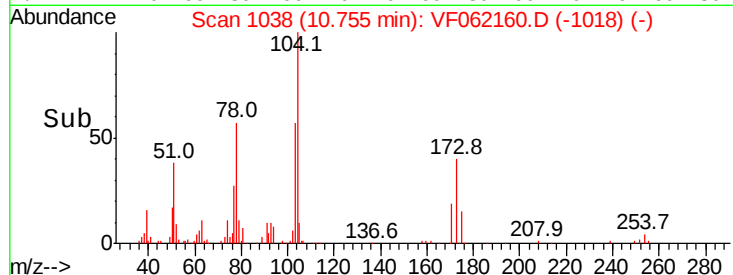
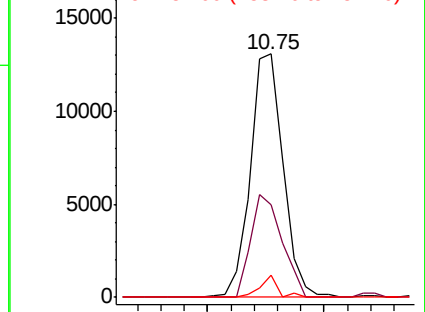


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

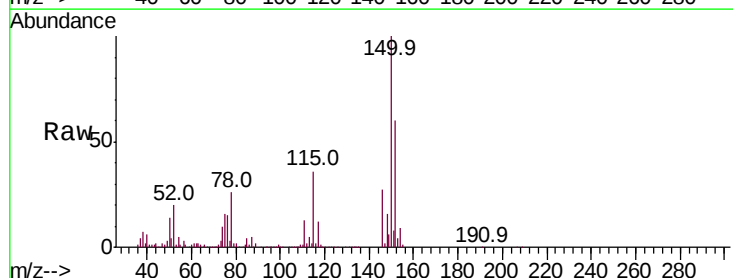
Tgt Ion:152 Resp: 139613

Ion Ratio Lower Upper

152 100

115 60.3 28.3 84.9

150 165.9 0.0 322.6

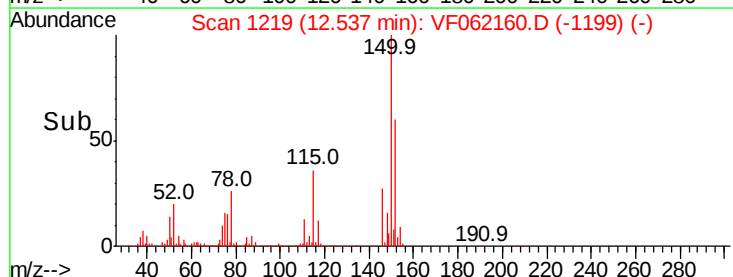
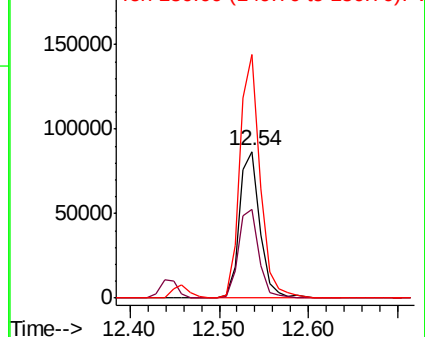


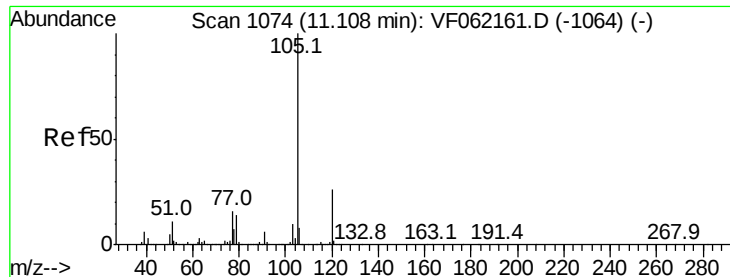
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 24.452 ug/l

RT: 11.11 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

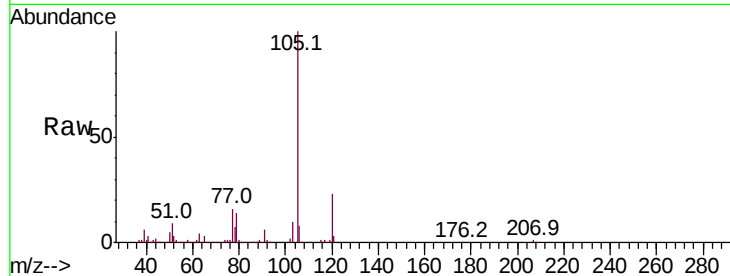
VSTDIC020

Tot Ion:105 Resp: 244056

Ion Ratio Lower Upper

105 100

120 23.1 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

150000

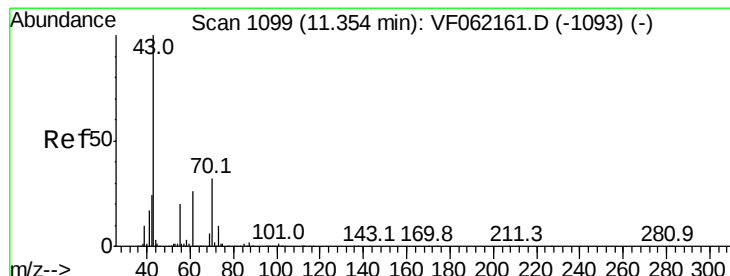
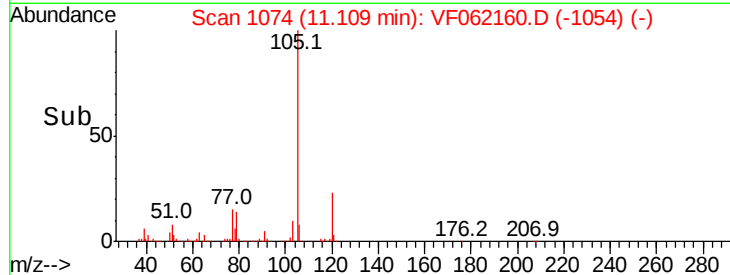
11.11

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 24.197 ug/l

RT: 11.36 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Tgt Ion: 43 Resp: 58597

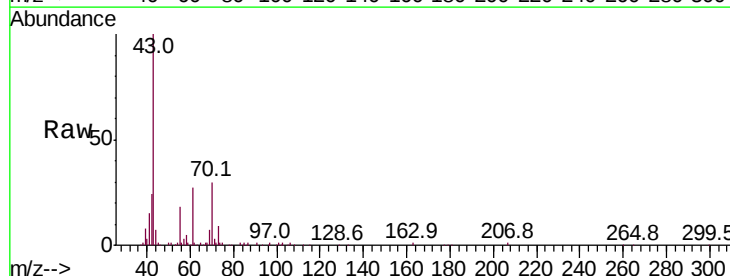
Ion Ratio Lower Upper

43 100

70 30.5 25.9 38.9

55 17.6 16.3 24.5

61 27.0 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

50000

40000

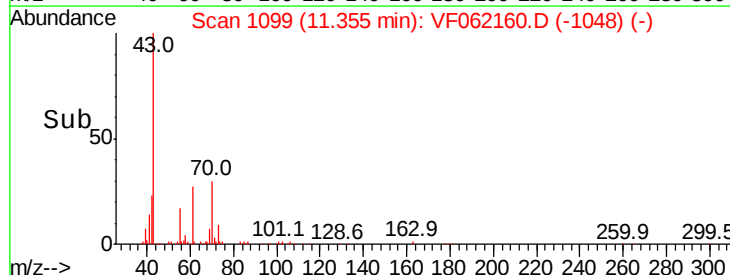
30000

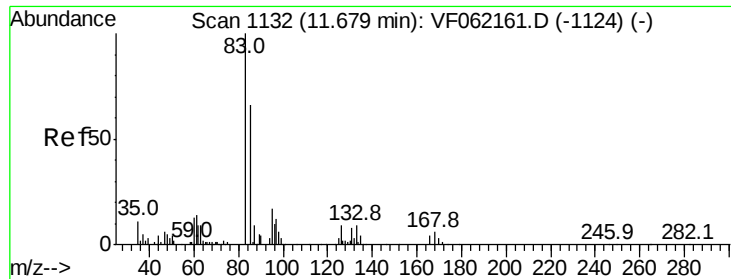
20000

10000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.050 ug/l

RT: 11.68 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

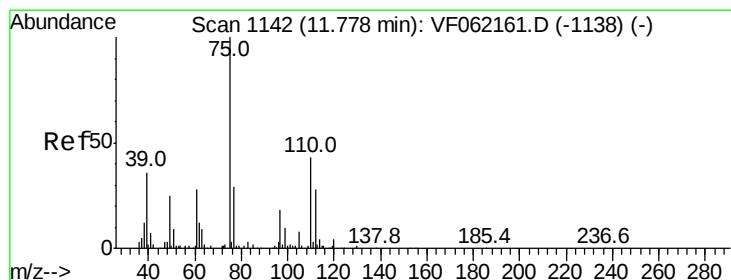
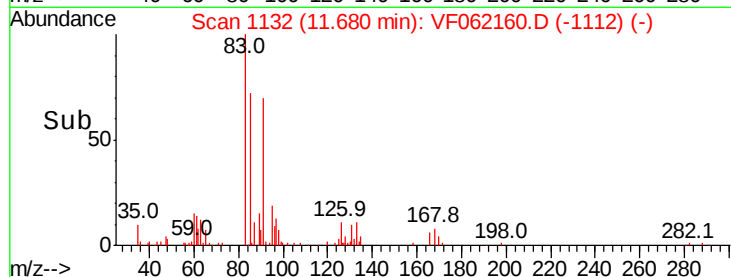
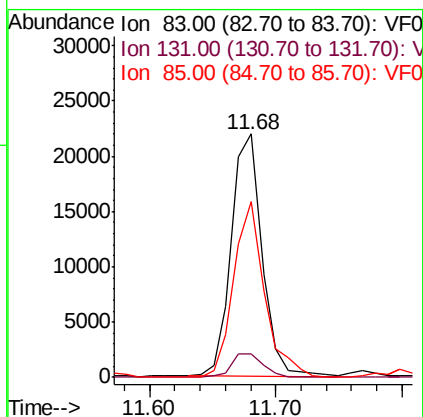
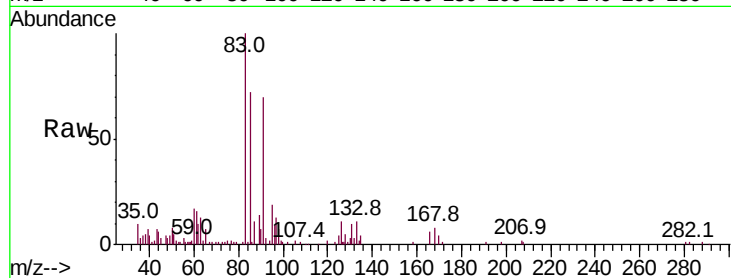
Tot Ion: 83 Resp: 36989

Ion Ratio Lower Upper

83 100

131 9.9 4.3 12.8

85 72.4 33.1 99.2



#76

1,2,3-Trichloropropane

Concen: 22.610 ug/l

RT: 11.78 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF062160.D

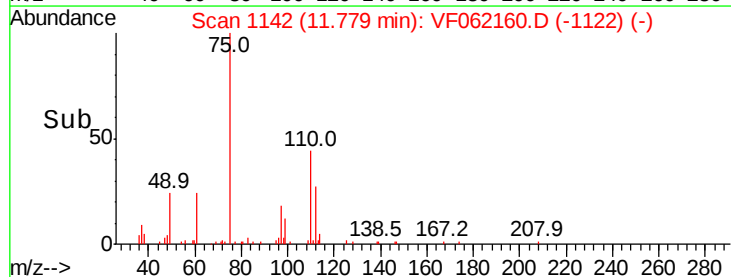
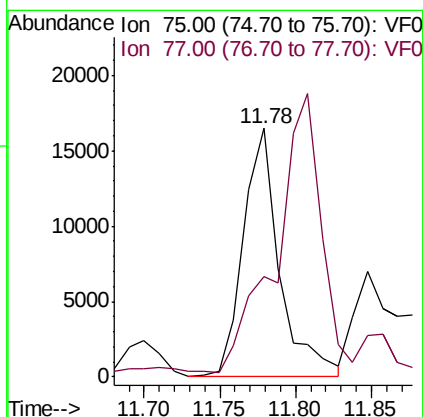
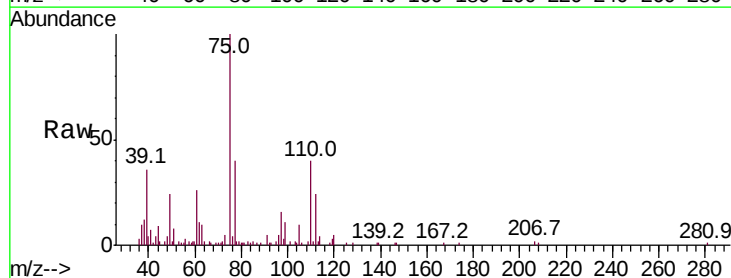
Acq: 4 Apr 2019 16:37

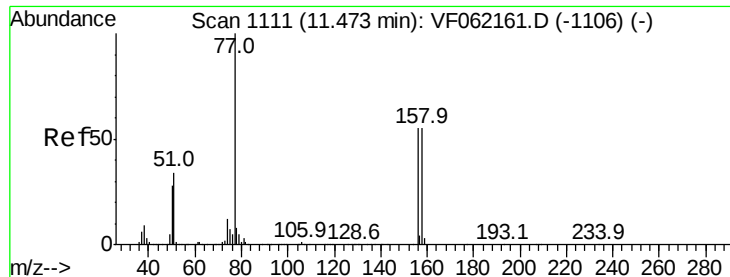
Tgt Ion: 75 Resp: 27606

Ion Ratio Lower Upper

75 100

77 40.2 15.0 45.0





#77

Bromobenzene

Concen: 21.426 ug/l

RT: 11.47 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

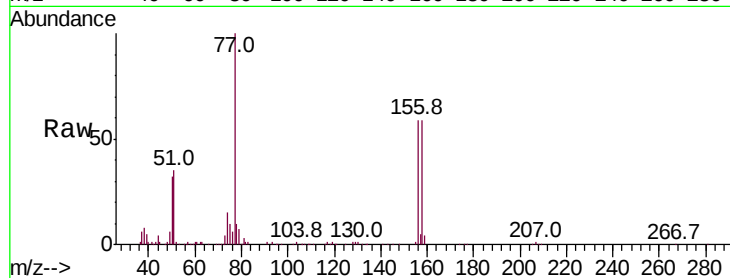
Tot Ion:156 Resp: 51534

Ion Ratio Lower Upper

156 100

77 169.2 91.0 272.8

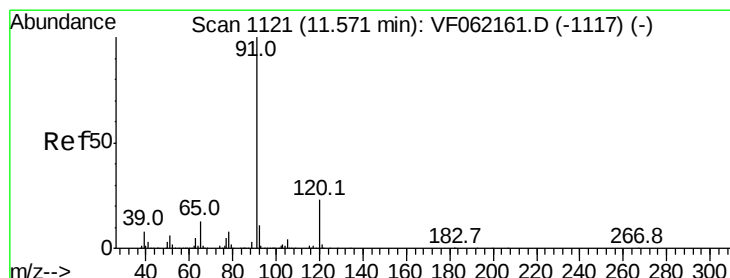
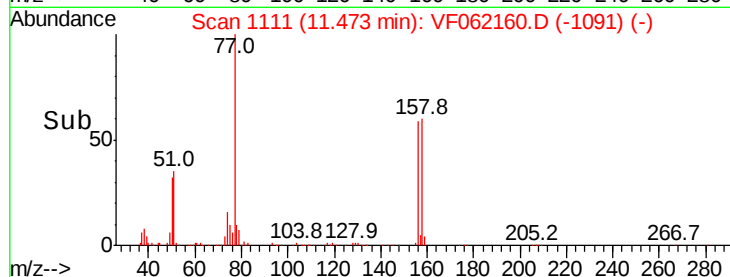
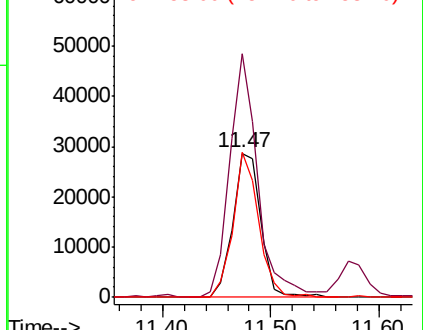
158 100.6 49.7 149.1



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: 23.213 ug/l

RT: 11.57 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062160.D

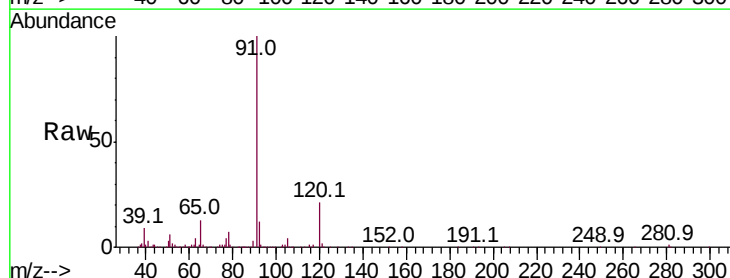
Acq: 4 Apr 2019 16:37

Tgt Ion: 91 Resp: 272361

Ion Ratio Lower Upper

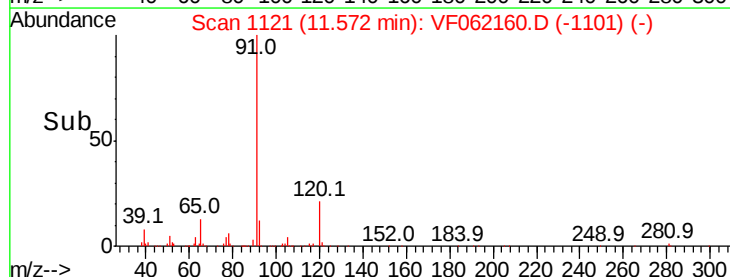
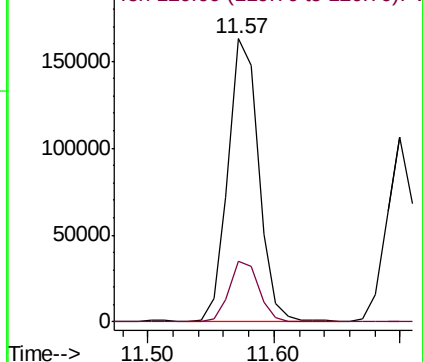
91 100

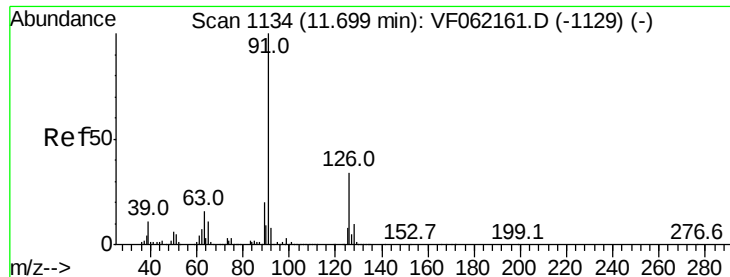
120 21.3 11.4 34.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 25.129 ug/l

RT: 11.70 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

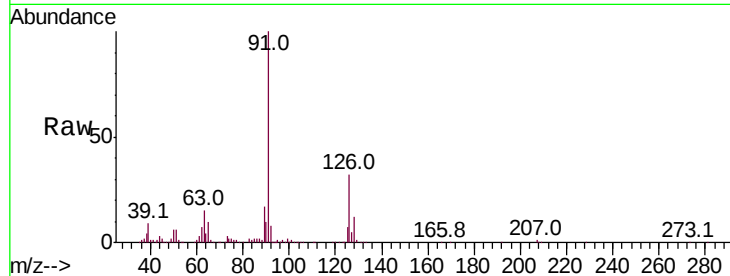
VSTDIC020

Tot Ion: 91 Resp: 163427

Ion Ratio Lower Upper

91 100

126 31.6 17.0 51.0



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.70

120000

100000

80000

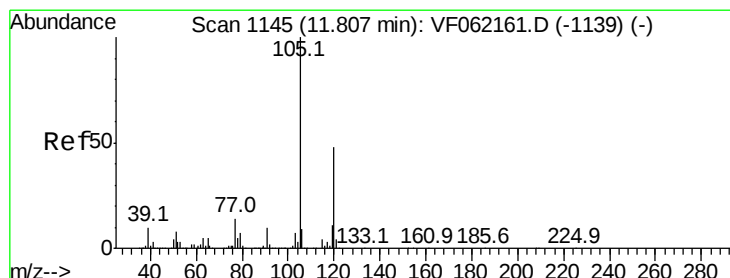
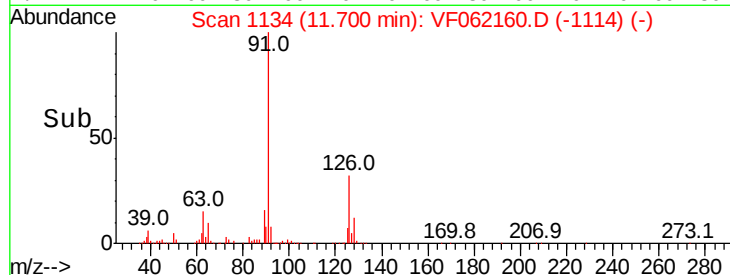
60000

40000

20000

0

Time--> 11.60 11.65 11.70 11.75



#80

1,3,5-Trimethylbenzene

Concen: 24.059 ug/l

RT: 11.81 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VF062160.D

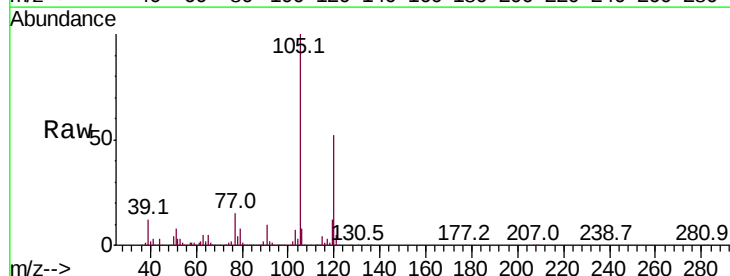
Acq: 4 Apr 2019 16:37

Tgt Ion:105 Resp: 200777

Ion Ratio Lower Upper

105 100

120 52.0 24.2 72.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

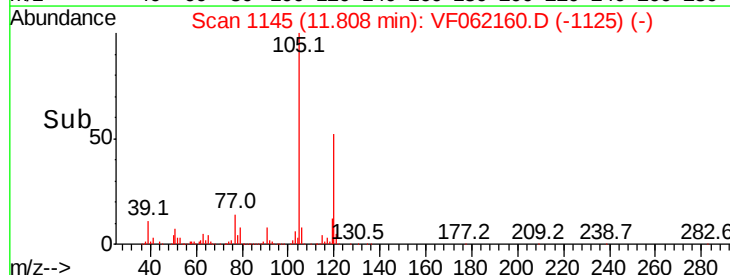
150000

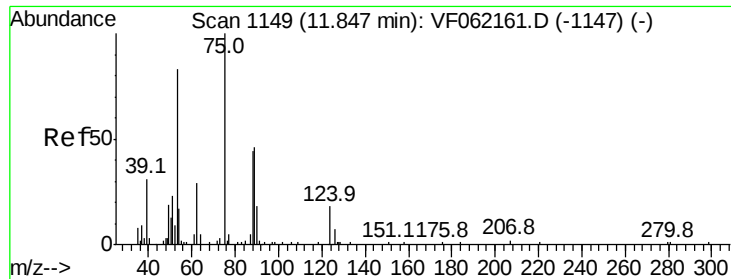
100000

50000

0

Time--> 11.70 11.80 11.90 12.00





#81

trans-1,4-Dichloro-2-butene

Concen: 22.966 ug/l m

RT: 11.85 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

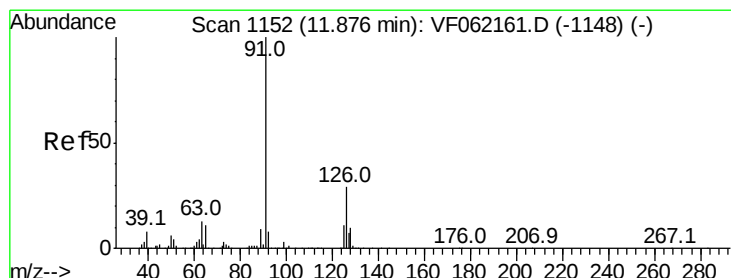
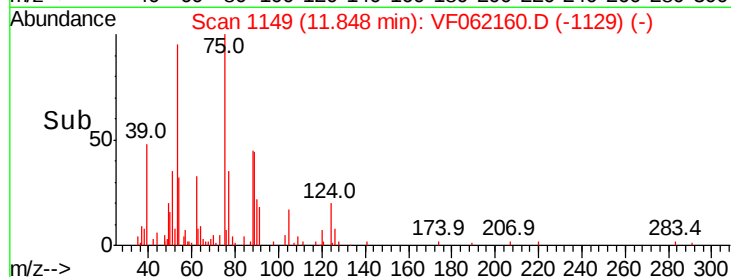
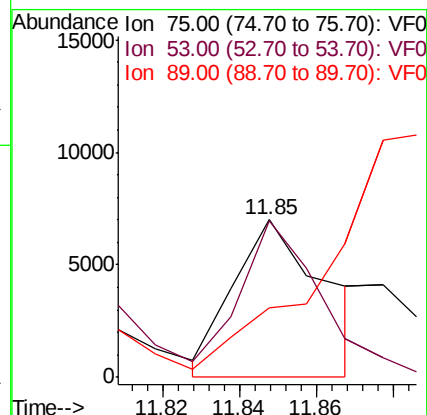
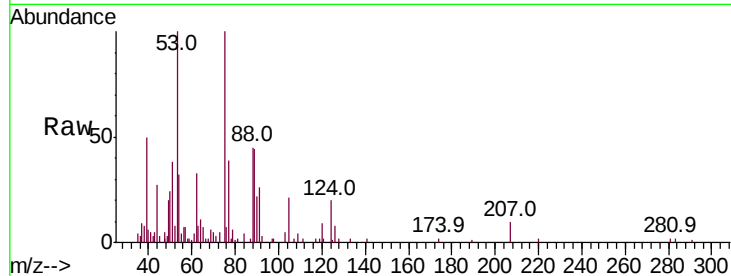
Tot Ion: 75 Resp: 11504

Ion Ratio Lower Upper

75 100

53 99.7 71.4 107.0

89 43.9 37.9 56.9



#82

4-Chlorotoluene

Concen: 24.828 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF062160.D

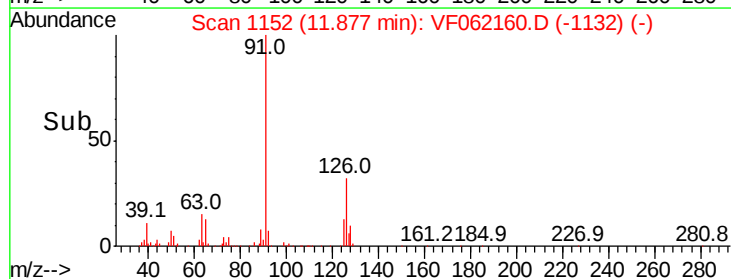
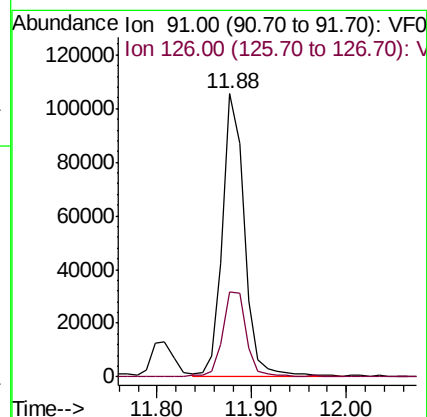
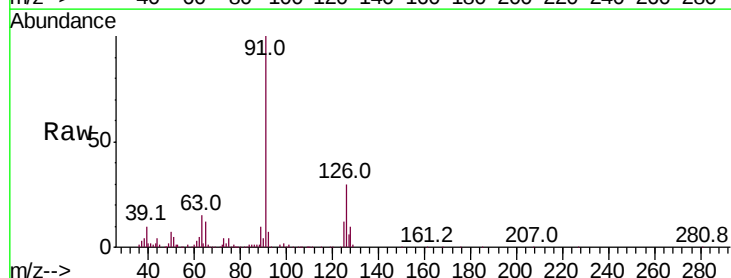
Acq: 4 Apr 2019 16:37

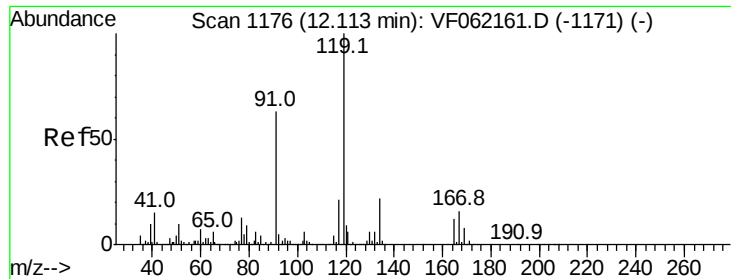
Tgt Ion: 91 Resp: 167610

Ion Ratio Lower Upper

91 100

126 29.9 14.2 42.8





#83

tert-Butylbenzene

Concen: 23.038 ug/l

RT: 12.11 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

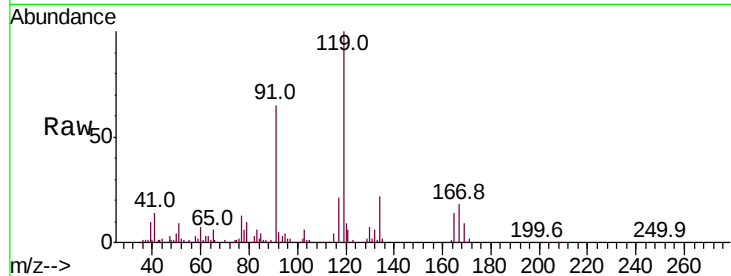
Tot Ion:119 Resp: 199393

Ion Ratio Lower Upper

119 100

91 64.9 31.6 94.7

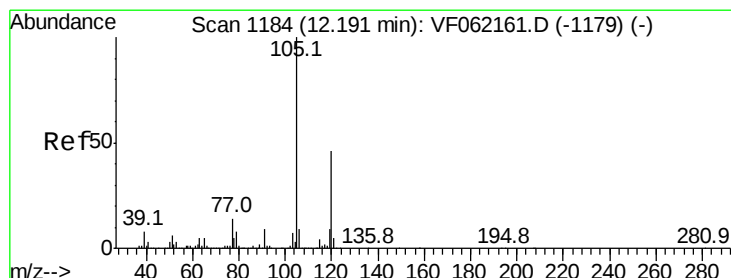
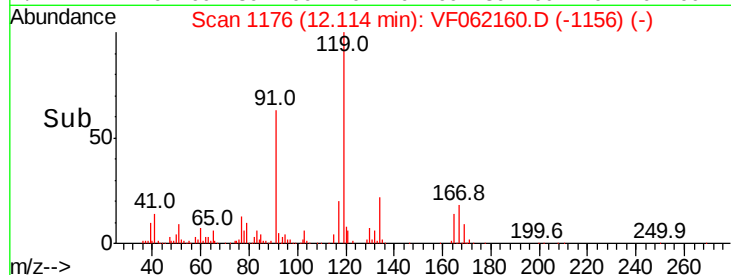
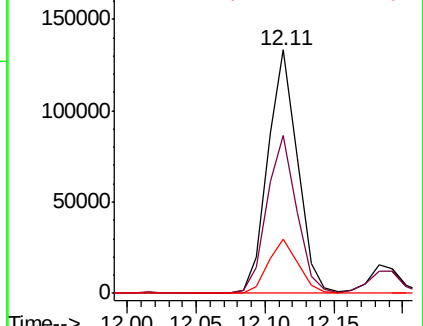
134 22.3 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 25.500 ug/l

RT: 12.18 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF062160.D

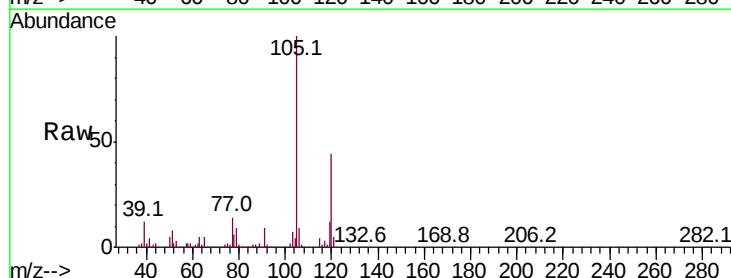
Acq: 4 Apr 2019 16:37

Tgt Ion:105 Resp: 208125

Ion Ratio Lower Upper

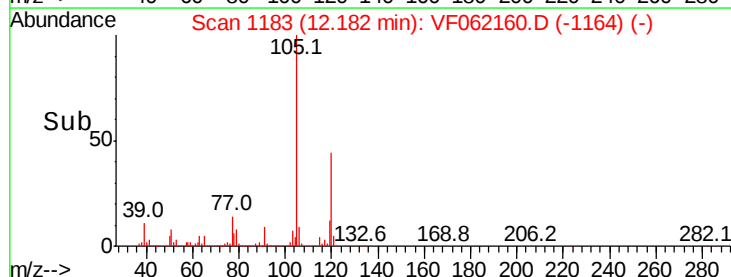
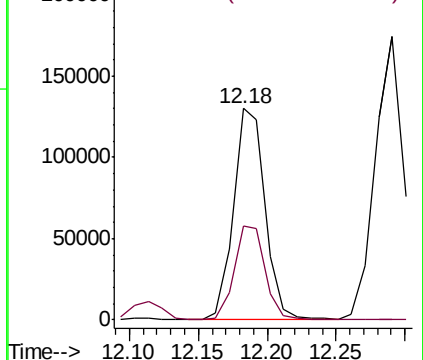
105 100

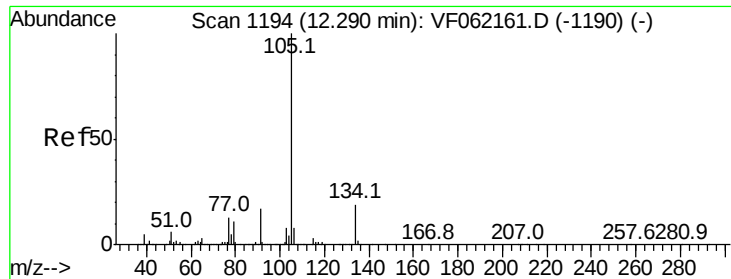
120 44.3 22.9 68.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 22.841 ug/l

RT: 12.29 min Scan# 1194

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

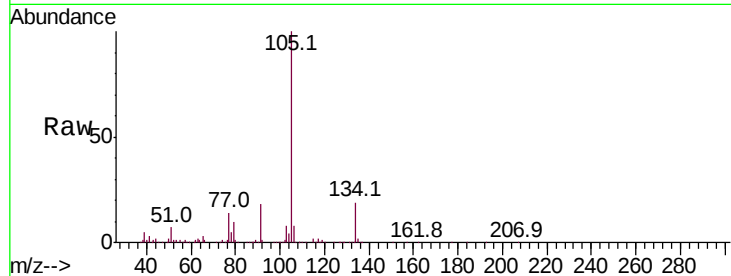
VSTDIC020

Tot Ion:105 Resp: 254674

Ion Ratio Lower Upper

105 100

134 18.9 9.3 28.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

200000

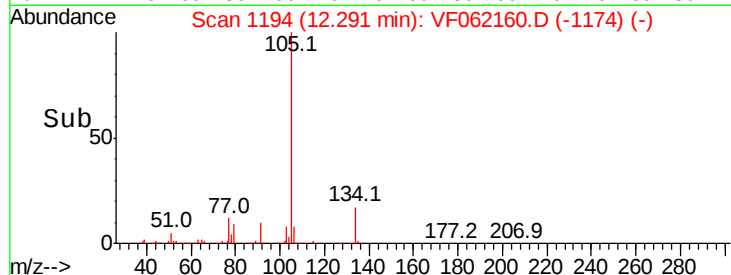
150000

100000

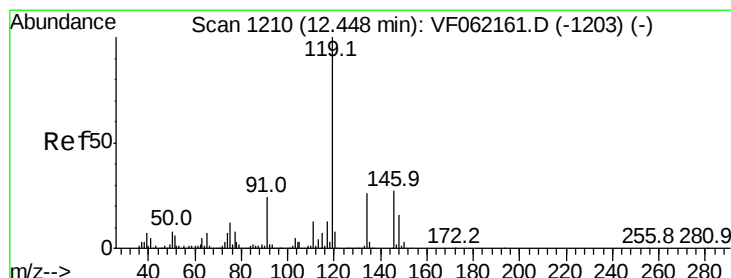
50000

0

12.20 12.30 12.40



Time-->



#86

p-Isopropyltoluene

Concen: 23.907 ug/l

RT: 12.44 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

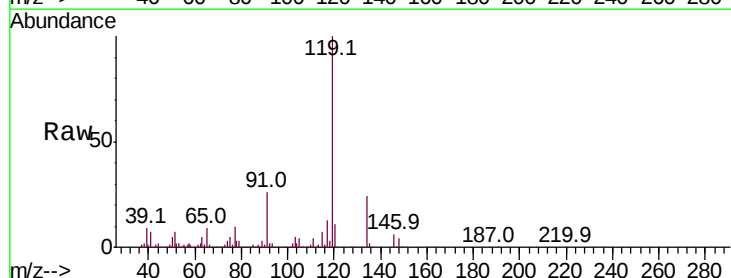
Tgt Ion:119 Resp: 234921

Ion Ratio Lower Upper

119 100

134 23.6 13.2 39.5

91 26.3 12.0 36.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

200000

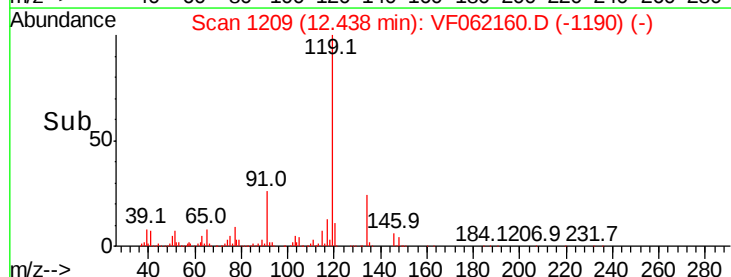
150000

100000

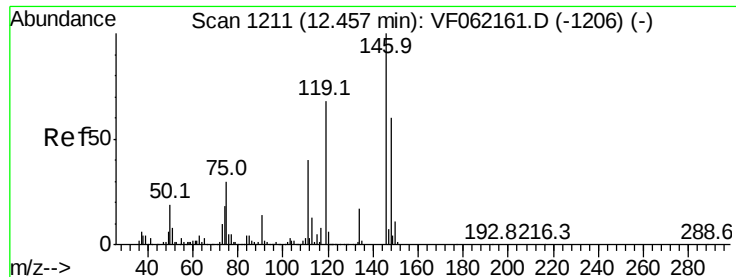
50000

0

12.40 12.50



Time-->



#87

1,3-Dichlorobenzene

Concen: 20.382 ug/l

RT: 12.46 min Scan# 1211

Delta R.T. 0.00 min

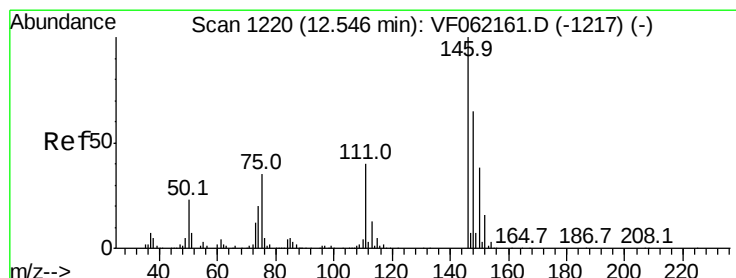
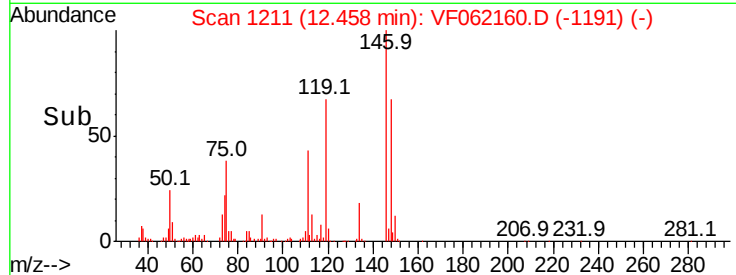
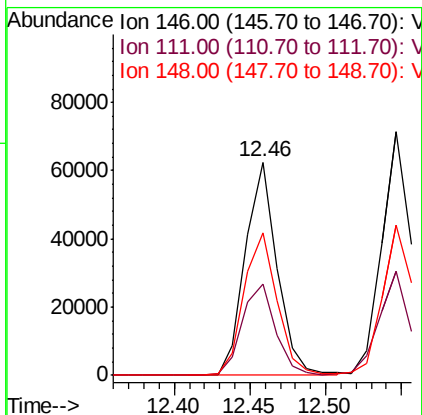
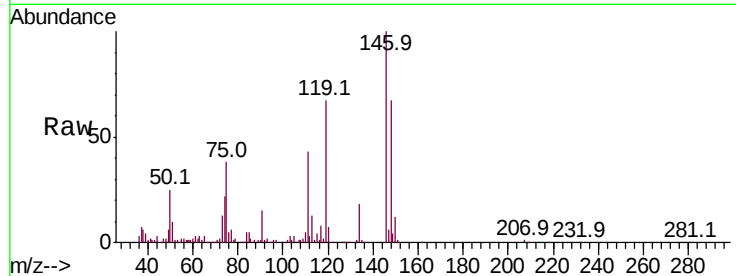
Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion:146 Resp: 92509

Ion	Ratio	Lower	Upper
146	100		
111	43.0	19.9	59.6
148	66.9	30.0	90.0



#88

1,4-Dichlorobenzene

Concen: 23.467 ug/l

RT: 12.55 min Scan# 1220

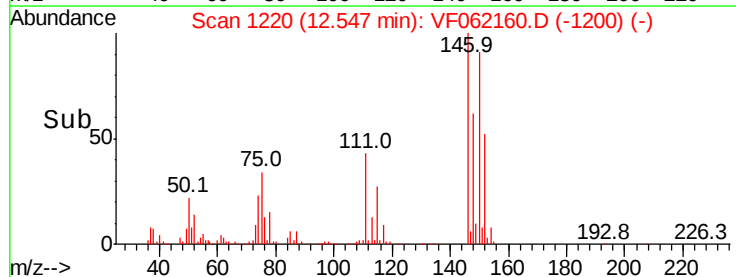
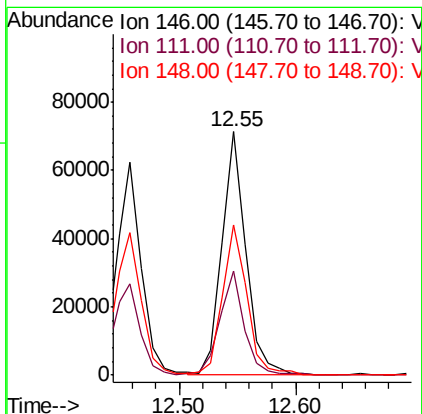
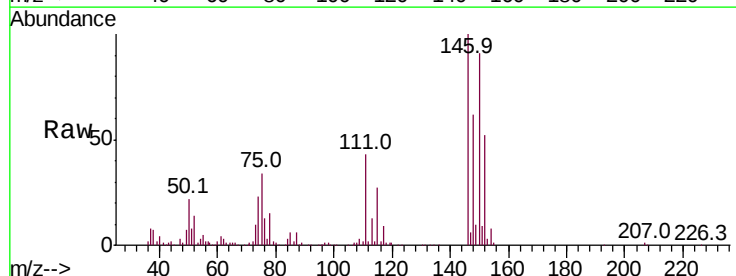
Delta R.T. 0.00 min

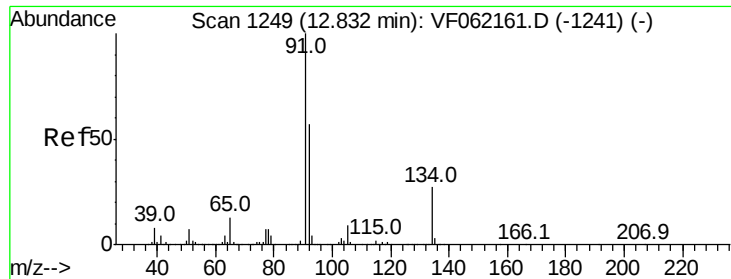
Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Tgt Ion:146 Resp: 102624

Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.1	60.2
148	61.8	32.5	97.4

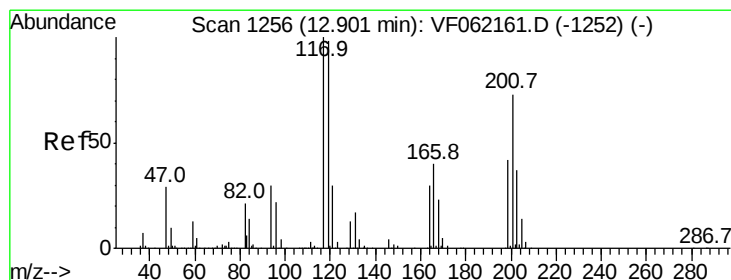
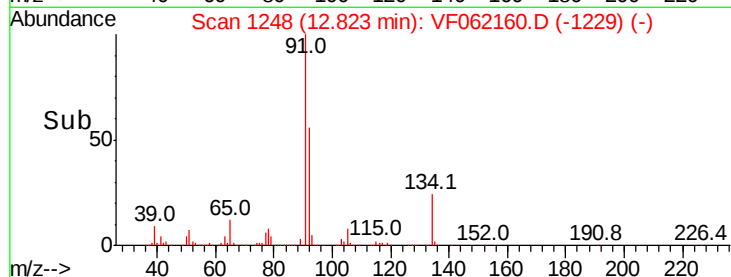
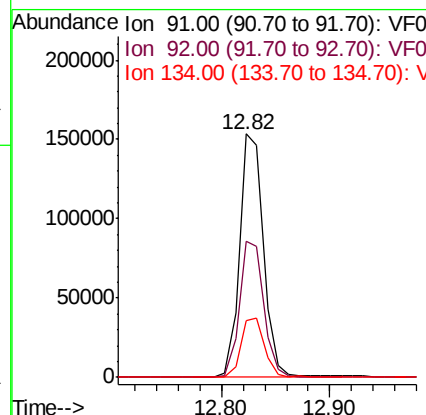
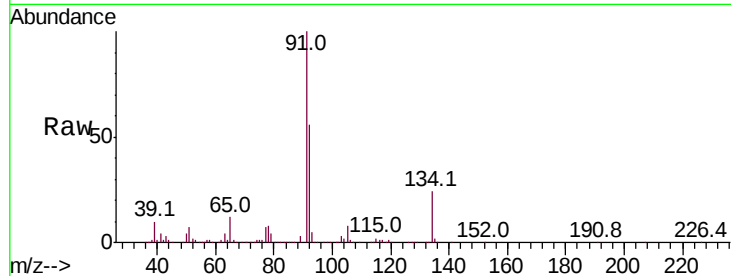




#89
n-Butylbenzene
Concen: 25.115 ug/l
RT: 12.82 min Scan# 1248
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

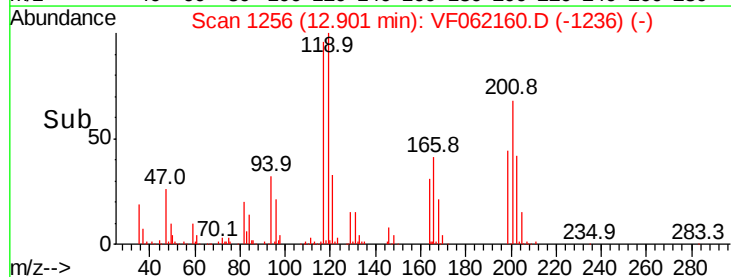
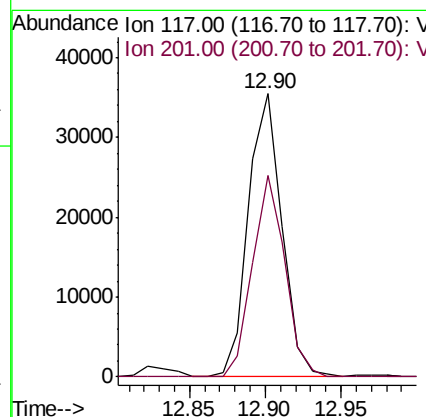
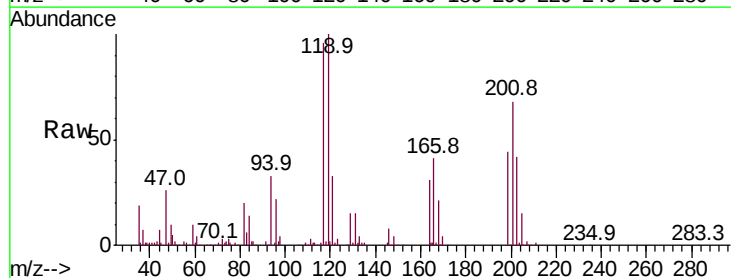
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

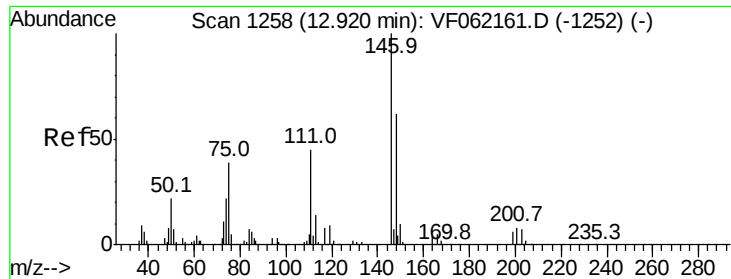
Tot Ion: 91 Resp: 234095
Ion Ratio Lower Upper
91 100
92 56.0 28.3 85.0
134 23.5 13.6 40.8



#90
Hexachloroethane
Concen: 23.824 ug/l
RT: 12.90 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 117 Resp: 54655
Ion Ratio Lower Upper
117 100
201 71.1 36.8 110.4

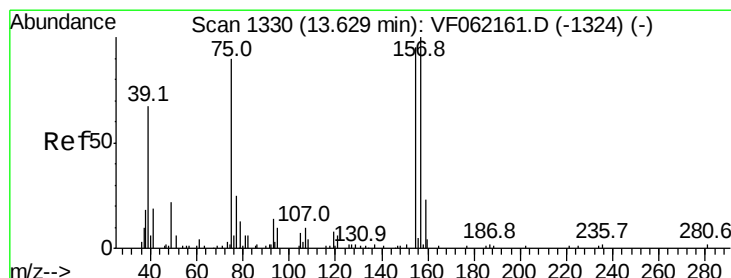
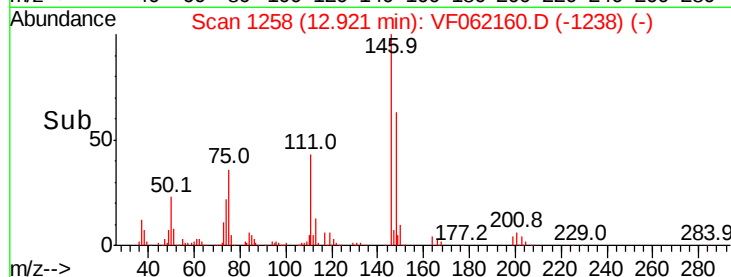
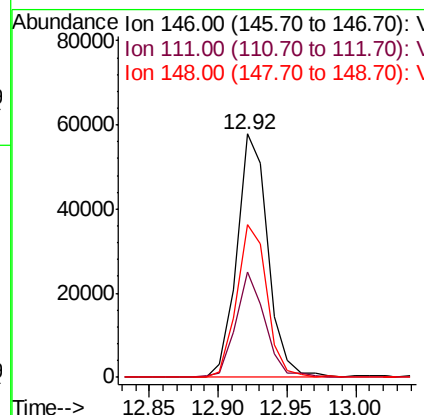
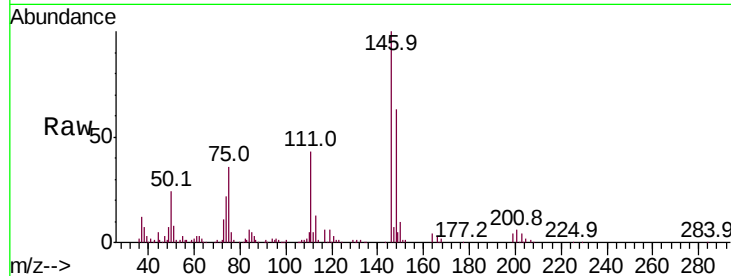




#91
 1,2-Dichlorobenzene
 Concen: 21.582 ug/l
 RT: 12.92 min Scan# 1258
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

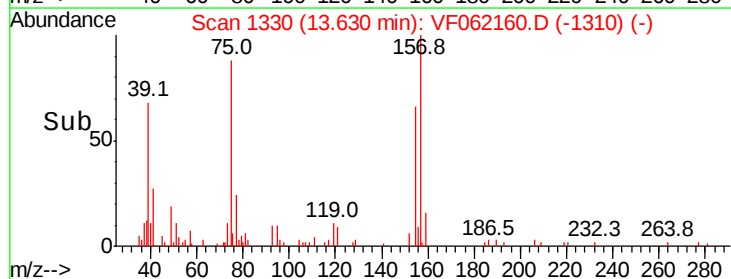
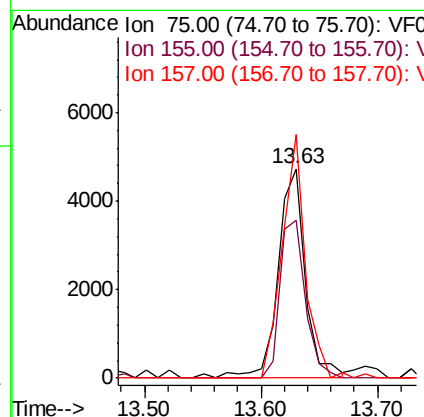
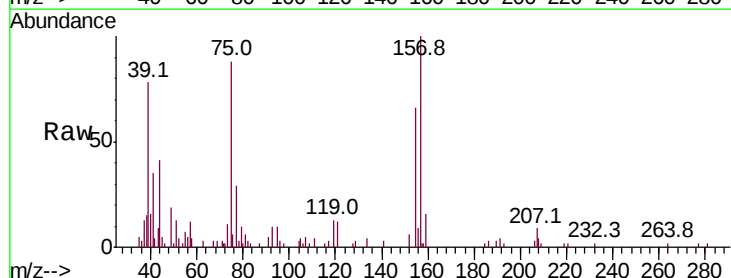
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

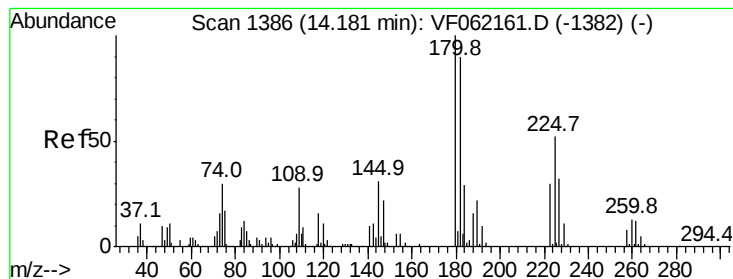
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.4	67.0
148	62.5	30.9	92.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 28.759 ug/l
 RT: 13.63 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.7	52.8	158.3
157	116.4	55.7	167.1





#93

1,2,4-Trichlorobenzene

Concen: 21.762 ug/l

RT: 14.18 min Scan# 1386

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

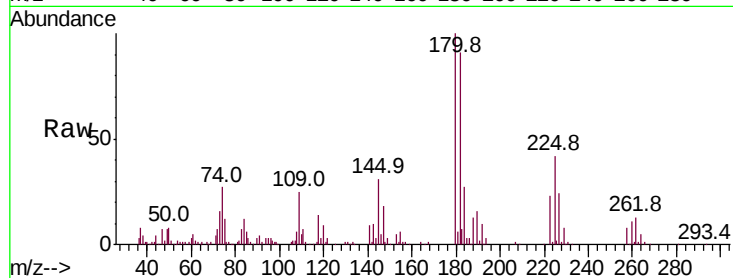
Tot Ion:180 Resp: 64449

Ion Ratio Lower Upper

180 100

182 90.8 45.1 135.2

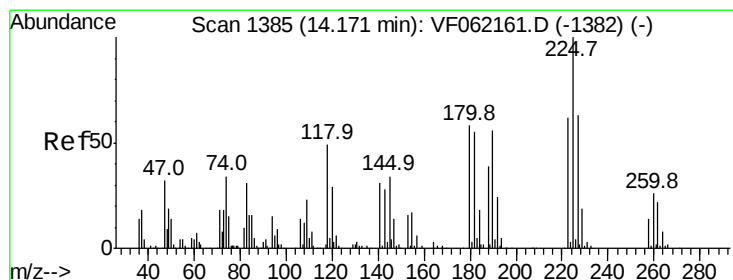
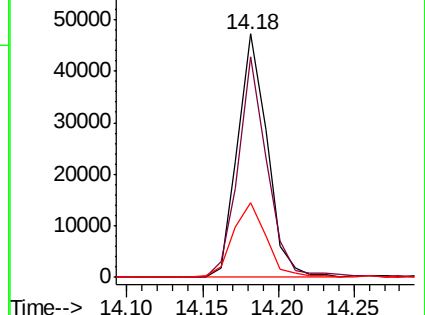
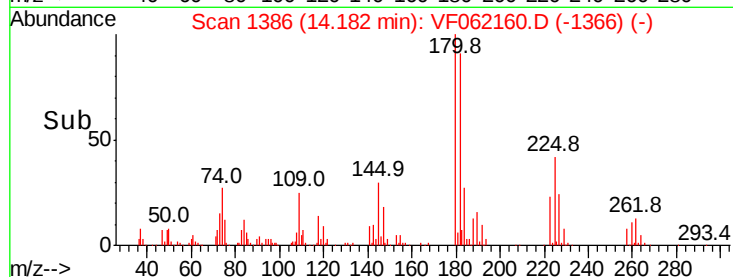
145 30.7 15.4 46.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94

Hexachlorobutadiene

Concen: 21.911 ug/l

RT: 14.17 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

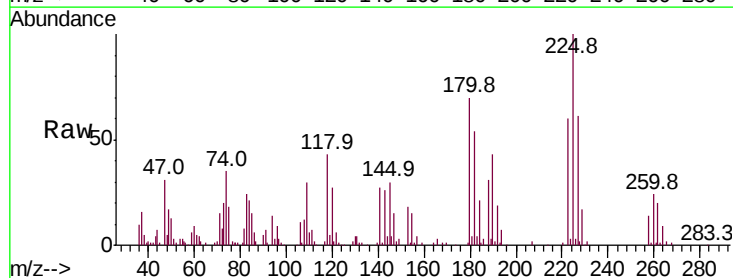
Tgt Ion:225 Resp: 42862

Ion Ratio Lower Upper

225 100

223 58.4 31.0 93.0

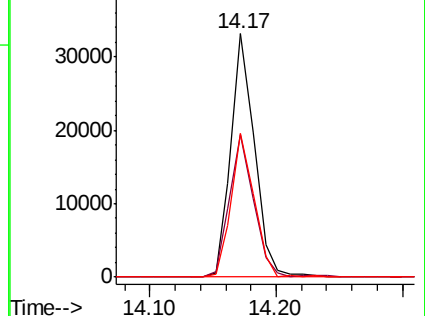
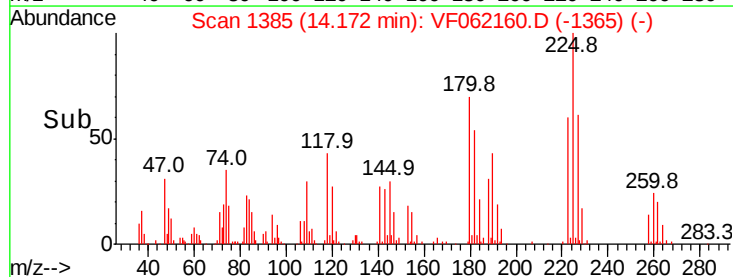
227 58.9 32.8 98.3

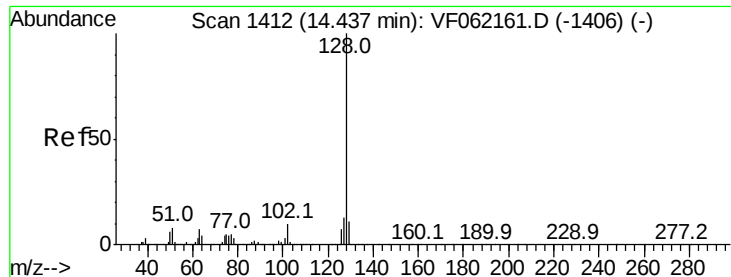


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 20.505 ug/l

RT: 14.44 min Scan# 1412

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

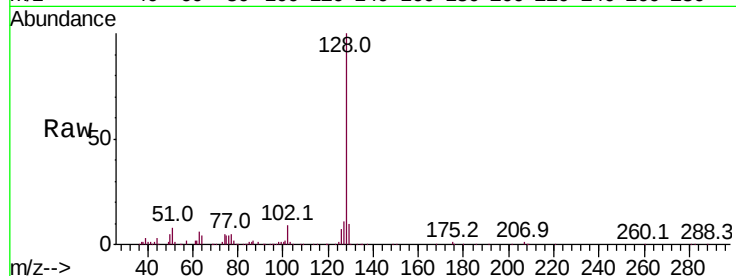
Tot Ion:128 Resp: 103894

Ion Ratio Lower Upper

128 100

127 10.7 10.2 15.2

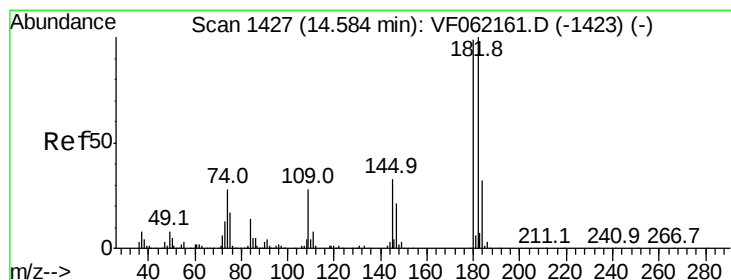
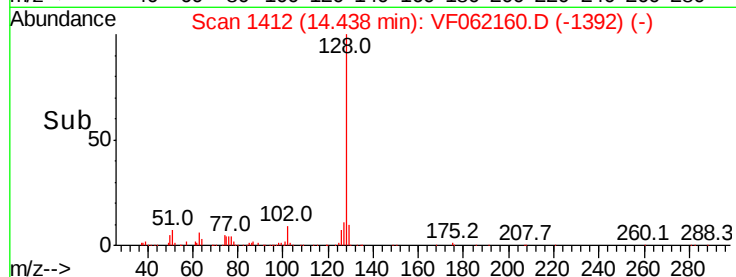
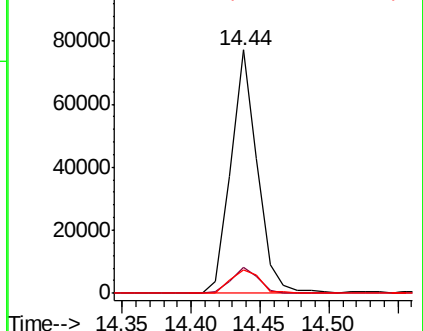
129 9.7 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.484 ug/l

RT: 14.59 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

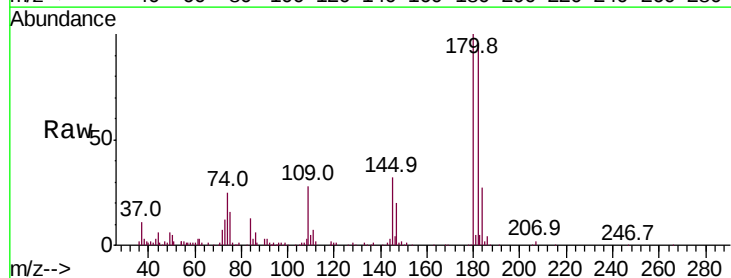
Tgt Ion:180 Resp: 55623

Ion Ratio Lower Upper

180 100

182 96.0 50.4 151.2

145 31.9 16.7 50.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

