

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF100918\
 Data File : VF060492.D
 Acq On : 9 Oct 2018 15:43
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00/5mL/MSVOA_F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Quant Time: Oct 10 01:50:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 10 01:47:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	243953	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	405099	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	352786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	195139	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	78706	20.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.42%	
35) Dibromofluoromethane	4.26	113	77753	20.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.06%	
50) Toluene-d8	7.68	98	180192	19.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.00%	
62) 4-Bromofluorobenzene	11.49	95	79454	18.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.56%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	117071	21.013	ug/l	98
3) Chloromethane	1.13	50	67821	20.863	ug/l	92
4) Vinyl Chloride	1.17	62	74888	22.012	ug/l	96
5) Bromomethane	1.36	94	53043	20.163	ug/l	91
6) Chloroethane	1.43	64	39235	23.175	ug/l	92
7) Trichlorofluoromethane	1.53	101	106238	13.536	ug/l	92
8) Diethyl Ether	1.68	74	20677	18.814	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	1.88	101	78645	20.729	ug/l	96
10) Methyl Iodide	1.91	142	30159	5.169	ug/l	96
11) Tert butyl alcohol	2.67	59	21365	94.680	ug/l #	75
12) 1,1-Dichloroethene	1.85	96	60900	20.406	ug/l	89
13) Acrolein	2.07	56	15267	90.726	ug/l	99
14) Allyl chloride	2.17	41	92037	19.744	ug/l	95
15) Acrylonitrile	3.05	53	43634	110.113	ug/l	100
16) Acetone	2.33	43	88814	98.100	ug/l	97
17) Carbon Disulfide	1.89	76	187811	21.271	ug/l	100
18) Methyl Acetate	2.43	43	30882	19.323	ug/l	98
19) Methyl tert-butyl Ether	2.52	73	143966	20.060	ug/l	99
20) Methylene Chloride	2.26	84	26214	7.889	ug/l	93
21) trans-1,2-Dichloroethene	2.39	96	58448	19.711	ug/l	93
22) Diisopropyl ether	2.91	45	199352	22.656	ug/l	98
23) Vinyl Acetate	3.30	43	366483	107.794	ug/l #	96
24) 1,1-Dichloroethane	2.98	63	131667	22.229	ug/l	98
25) 2-Butanone	4.47	43	97845	99.972	ug/l #	88
26) 2,2-Dichloropropane	3.73	77	72841	22.172	ug/l	97
27) cis-1,2-Dichloroethene	3.61	96	76802	23.110	ug/l	91
28) Bromochloromethane	3.85	49	43283	20.627	ug/l #	90
29) Tetrahydrofuran	4.22	42	38375	97.007	ug/l	94
30) Chloroform	4.01	83	154012	21.572	ug/l	95
31) Cyclohexane	3.83	56	83327	20.272	ug/l	95
32) 1,1,1-Trichloroethane	4.24	97	120029	20.451	ug/l	96
36) 1,1-Dichloropropene	4.43	75	98331	19.856	ug/l	99
37) Ethyl Acetate	4.25	43	34745	18.363	ug/l	99
38) Carbon Tetrachloride	4.13	117	102719	17.557	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.59	83	92874	18.885	ug/l	93
40) Benzene	4.78	78	204356	20.525	ug/l	99
41) Methacrylonitrile	4.89	41	21511	21.192	ug/l	92
42) 1,2-Dichloroethane	5.09	62	92743	19.664	ug/l	100
43) Isopropyl Acetate	7.08	43	38977	16.976	ug/l #	99
44) Trichloroethene	5.64	130	63496	19.836	ug/l	94
45) 1,2-Dichloropropane	6.38	63	50883	19.466	ug/l	95
46) Dibromomethane	6.22	93	40317	19.145	ug/l	89
47) Bromodichloromethane	6.51	83	103095	19.650	ug/l	99
48) Methyl methacrylate	6.84	41	29095	17.726	ug/l	94
49) 1,4-Dioxane	6.83	88	4467	314.817	ug/l #	57
51) 4-Methyl-2-Pentanone	8.38	43	152970	93.865	ug/l	97
52) Toluene	7.76	92	127619	19.072	ug/l	97
53) t-1,3-Dichloropropene	8.40	75	79832	19.434	ug/l	96
54) cis-1,3-Dichloropropene	7.43	75	89053	18.728	ug/l	93
55) 1,1,2-Trichloroethane	8.61	97	38094	17.972	ug/l	95
56) Ethyl methacrylate	8.73	69	42415	17.676	ug/l	92
57) 1,3-Dichloropropane	8.97	76	67013	18.741	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.76	63	22758	92.224	ug/l	100
59) 2-Hexanone	9.61	43	109996	92.224	ug/l	99
60) Dibromochloromethane	8.83	129	61611	19.366	ug/l	97
61) 1,2-Dibromoethane	9.11	107	43453	18.738	ug/l	100
64) Tetrachloroethene	8.28	164	58331	20.593	ug/l	96
65) Chlorobenzene	9.92	112	144326	19.965	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.04	131	66282	20.947	ug/l	99
67) Ethyl Benzene	10.01	91	279472	20.286	ug/l	95
68) m/p-Xylenes	10.24	106	180871	38.379	ug/l	85
69) o-Xylene	10.80	106	108862	21.173	ug/l	100
70) Styrene	10.88	104	147417	20.197	ug/l	96
71) Bromoform	10.86	173	32303	19.235	ug/l #	95
73) Isopropylbenzene	11.21	105	314843	20.335	ug/l	99
74) N-amyl acetate	11.44	43	64557	18.370	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.77	83	51943	18.723	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	41136	19.951	ug/l	94
77) Bromobenzene	11.57	156	69606	20.147	ug/l	95
78) n-propylbenzene	11.67	91	375458	20.193	ug/l	95
79) 2-Chlorotoluene	11.80	91	220985	20.271	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	261620	20.021	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.94	75	26168	29.028	ug/l	98
82) 4-Chlorotoluene	11.98	91	223053	19.859	ug/l	99
83) tert-Butylbenzene	12.20	119	273608	21.226	ug/l	94
84) 1,2,4-Trimethylbenzene	12.27	105	272084	20.903	ug/l	100
85) sec-Butylbenzene	12.37	105	372340	20.880	ug/l	98
86) p-Isopropyltoluene	12.53	119	295748	20.296	ug/l	96
87) 1,3-Dichlorobenzene	12.54	146	128693	19.806	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	127022	19.873	ug/l	97
89) n-Butylbenzene	12.90	91	313270	20.393	ug/l	97
90) Hexachloroethane	12.98	117	71771	19.292	ug/l	100
91) 1,2-Dichlorobenzene	13.00	146	128680	20.651	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	13.70	75	11011	19.915	ug/l	90

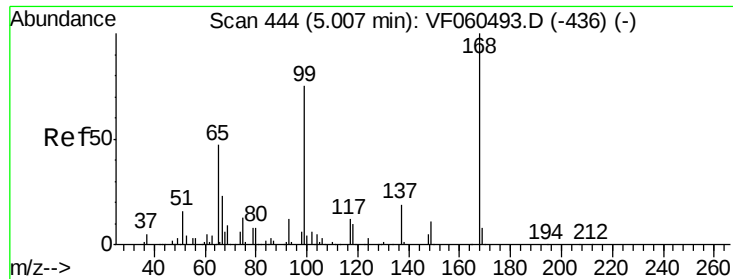
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF100918\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	104311	22.381	ug/l	100
94) Hexachlorobutadiene	14.24	225	66714	20.355	ug/l	99
95) Naphthalene	14.51	128	164929	19.818	ug/l	97
96) 1,2,3-Trichlorobenzene	14.66	180	96532	21.987	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

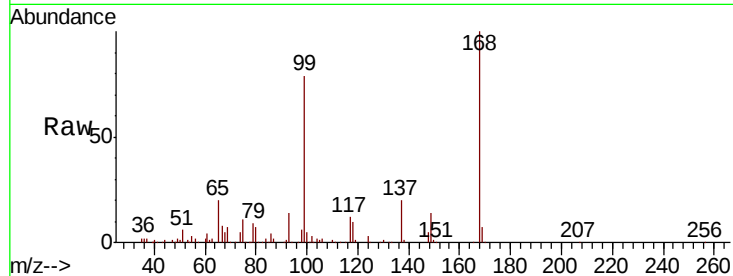
VSTDIC020

Tgt Ion:168 Resp: 243953

Ion Ratio Lower Upper

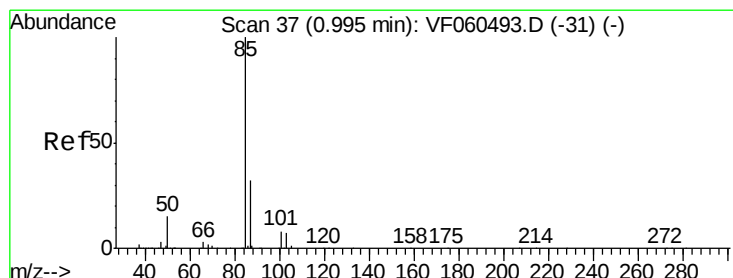
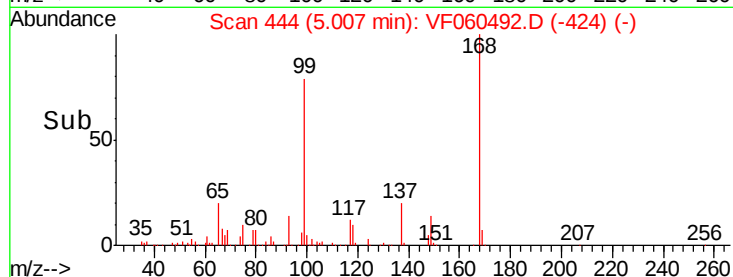
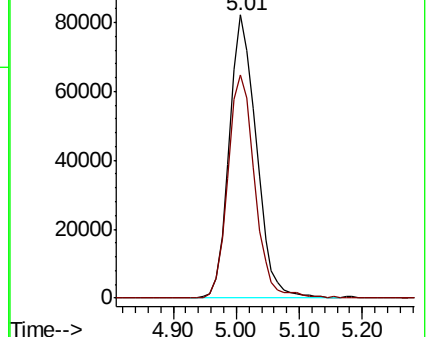
168 100

99 78.7 60.3 90.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 21.013 ug/l

RT: 0.99 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060492.D

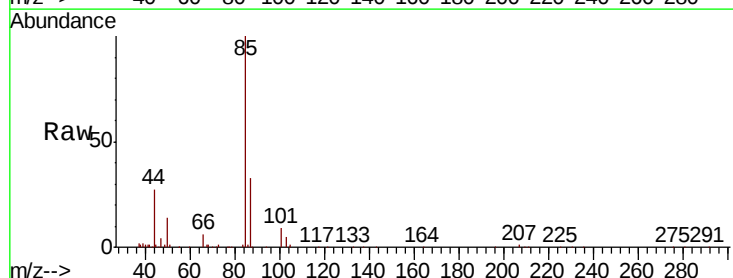
Acq: 9 Oct 2018 15:43

Tgt Ion: 85 Resp: 117071

Ion Ratio Lower Upper

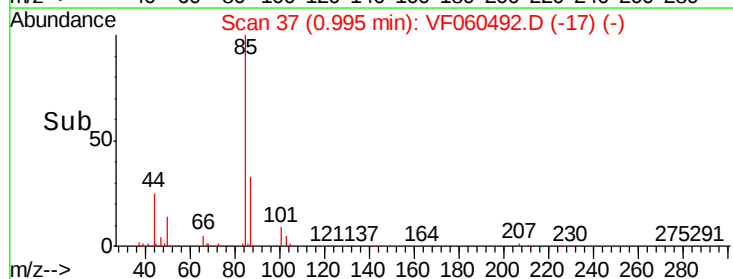
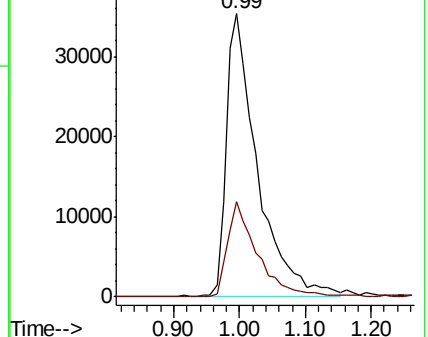
85 100

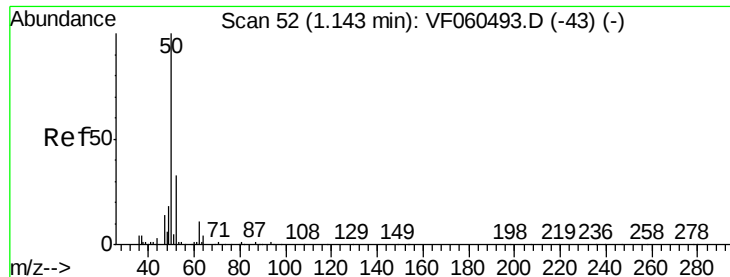
87 33.7 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 20.863 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

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ClientSampleId :

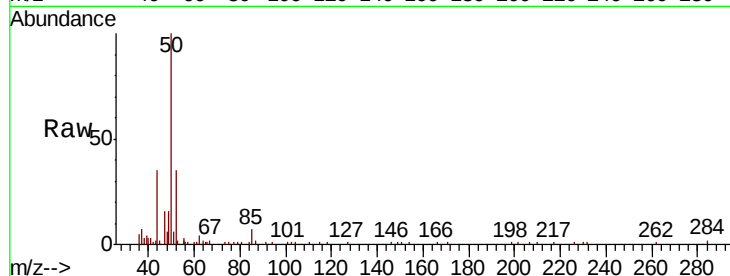
VSTDIC020

Tgt Ion: 50 Resp: 67821

Ion Ratio Lower Upper

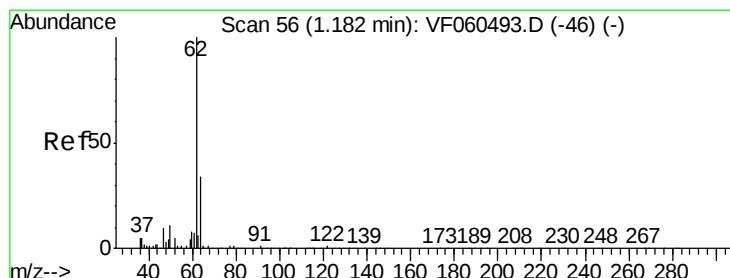
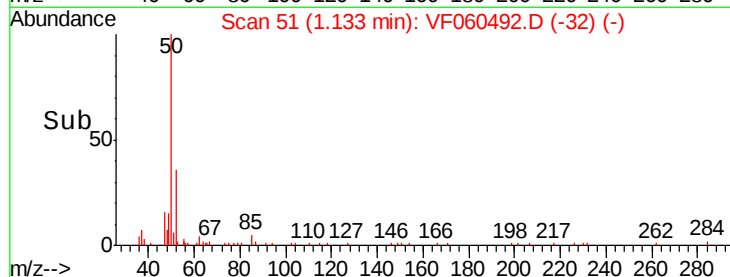
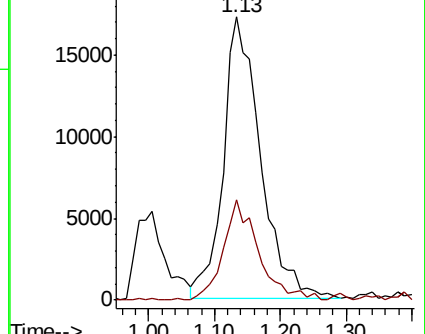
50 100

52 35.5 25.0 37.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 22.012 ug/l

RT: 1.17 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF060492.D

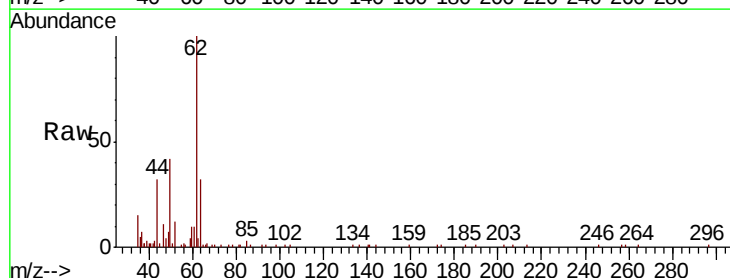
Acq: 9 Oct 2018 15:43

Tgt Ion: 62 Resp: 74888

Ion Ratio Lower Upper

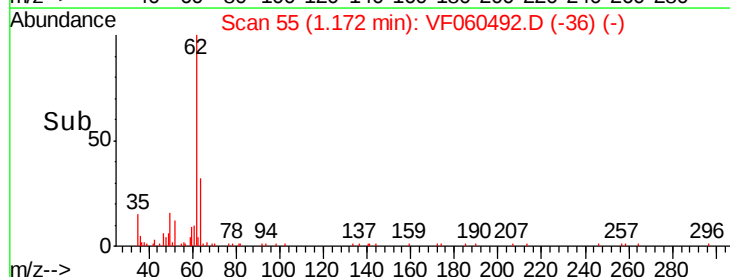
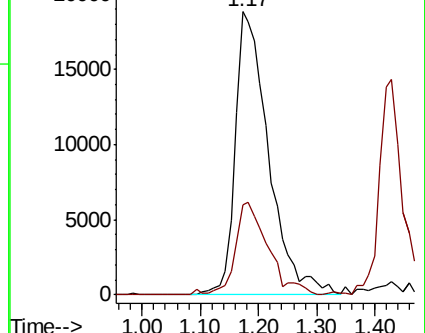
62 100

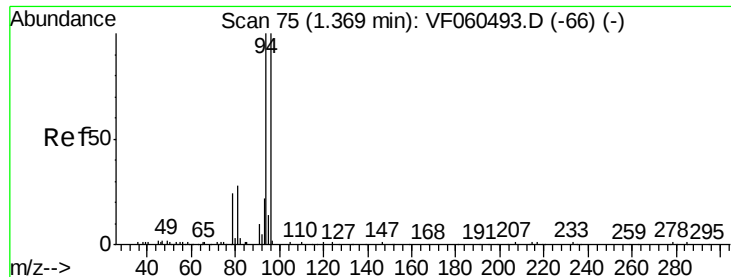
64 32.0 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 20.163 ug/l

RT: 1.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

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ClientSampleId :

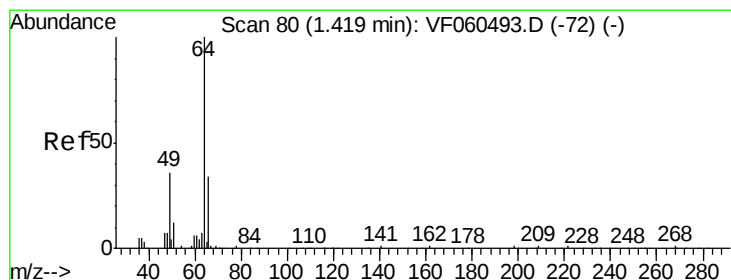
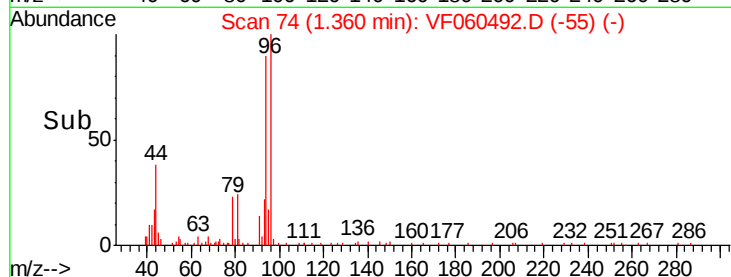
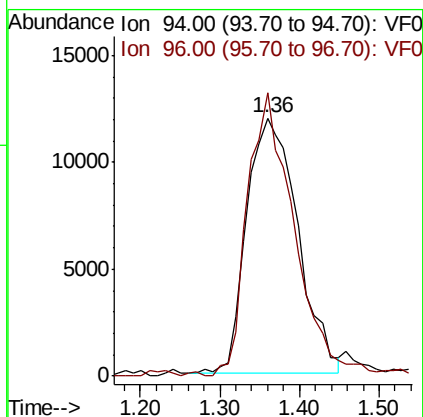
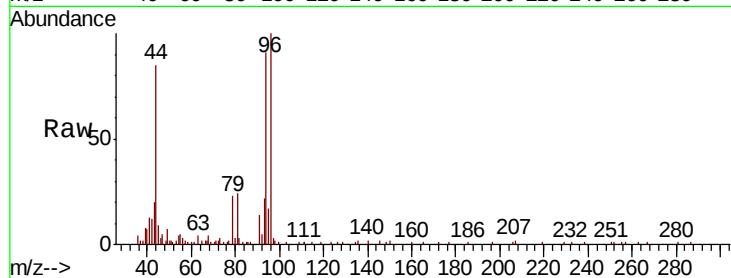
VSTDIC020

Tgt Ion: 94 Resp: 53043

Ion Ratio Lower Upper

94 100

96 109.8 80.6 120.8



#6

Chloroethane

Concen: 23.175 ug/l

RT: 1.43 min Scan# 81

Delta R.T. 0.01 min

Lab File: VF060492.D

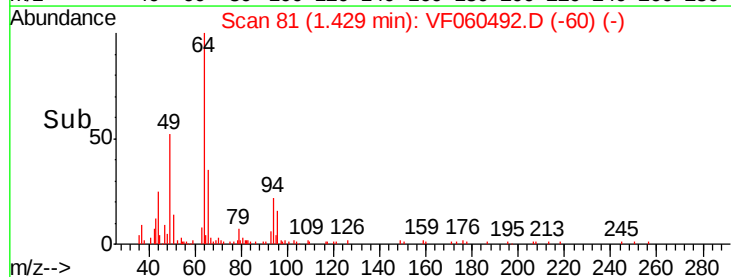
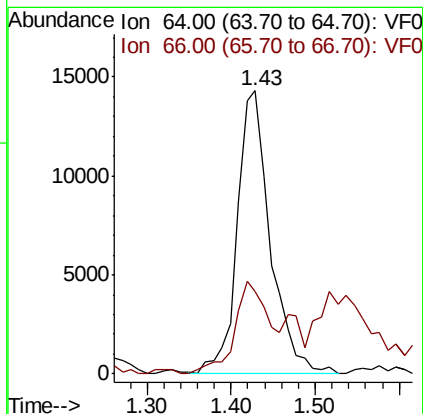
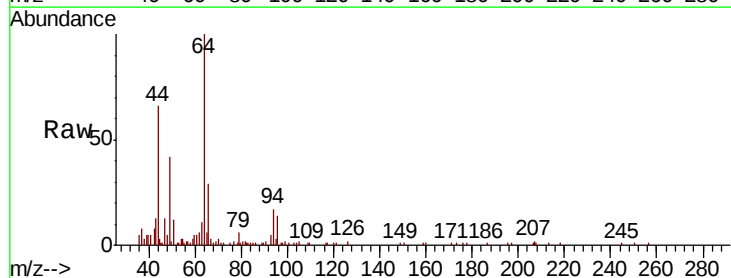
Acq: 9 Oct 2018 15:43

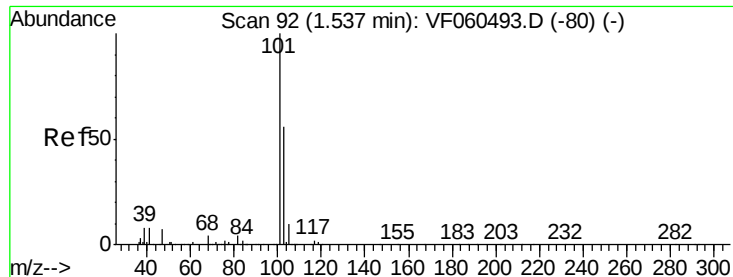
Tgt Ion: 64 Resp: 39235

Ion Ratio Lower Upper

64 100

66 29.2 27.0 40.6





#7

Trichlorofluoromethane

Concen: 13.536 ug/l

RT: 1.53 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

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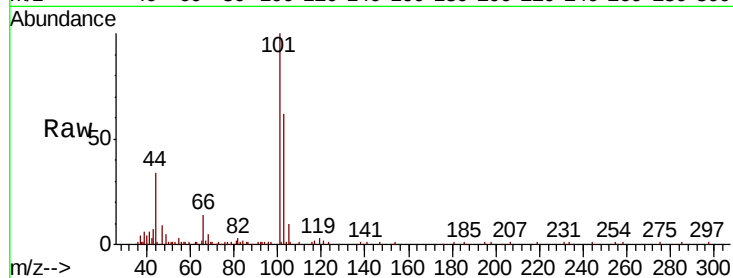
VSTDIC020

Tgt Ion:101 Resp: 106238

Ion Ratio Lower Upper

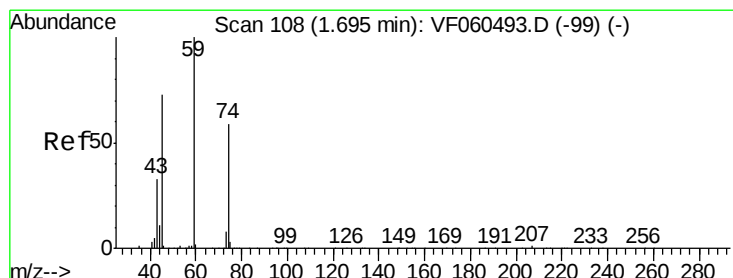
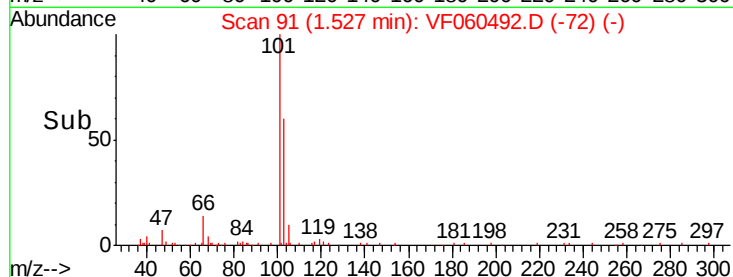
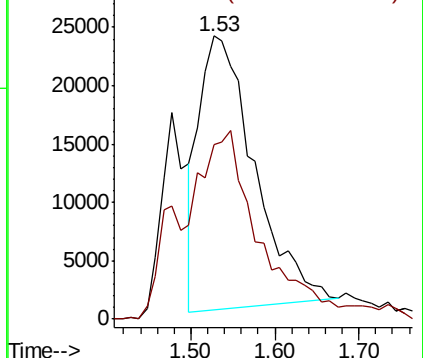
101 100

103 61.5 44.6 66.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 18.814 ug/l

RT: 1.68 min Scan# 107

Delta R.T. -0.01 min

Lab File: VF060492.D

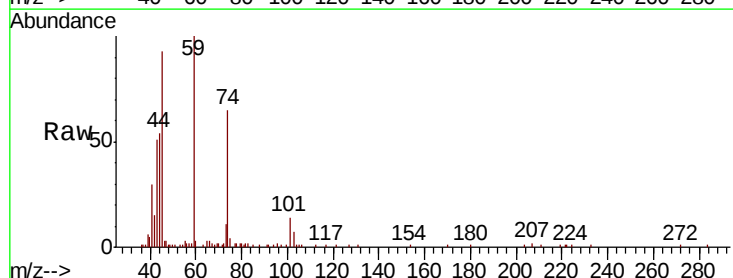
Acq: 9 Oct 2018 15:43

Tgt Ion: 74 Resp: 20677

Ion Ratio Lower Upper

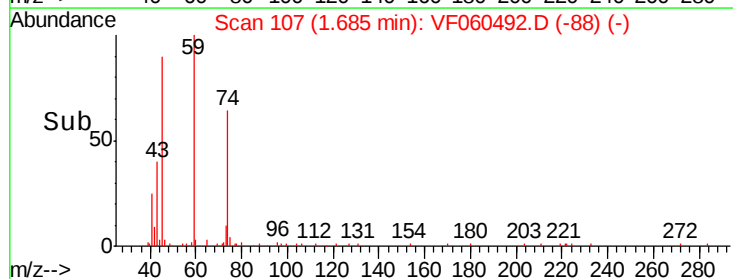
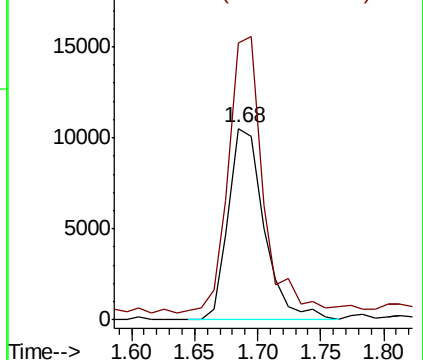
74 100

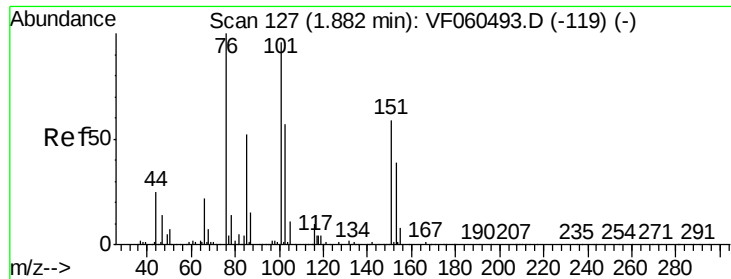
45 144.4 62.7 188.1



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: 20.729 ug/l

RT: 1.88 min Scan# 127

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

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VSTDIC020

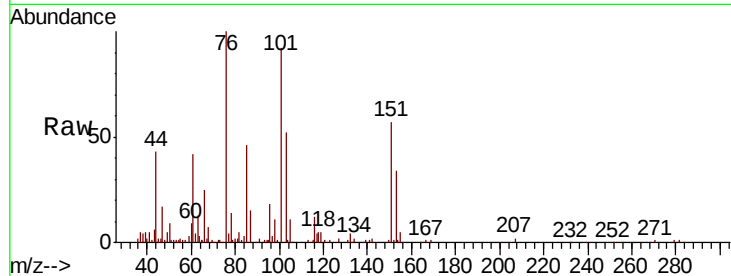
Tgt Ion:101 Resp: 78645

Ion Ratio Lower Upper

101 100

85 49.6 41.8 62.6

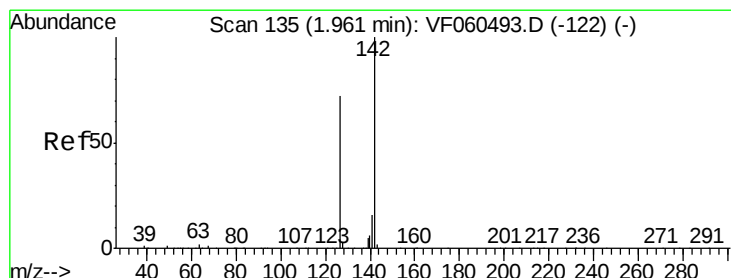
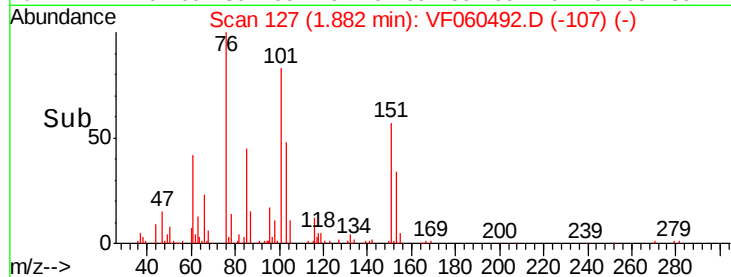
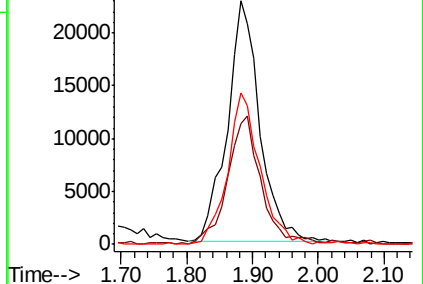
151 62.2 47.4 71.0



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: 5.169 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.05 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

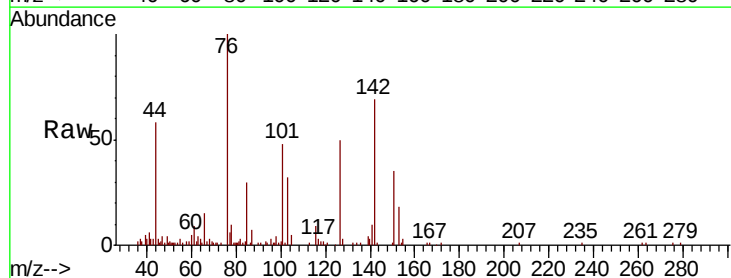
Tgt Ion:142 Resp: 30159

Ion Ratio Lower Upper

142 100

127 76.4 57.9 86.9

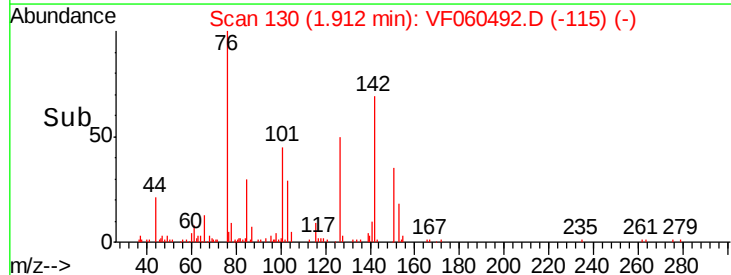
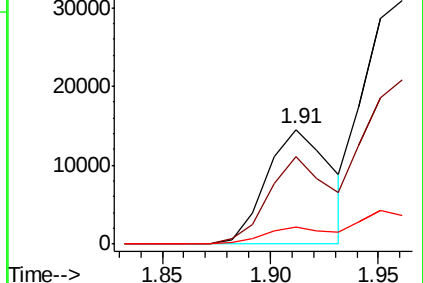
141 15.0 12.7 19.1

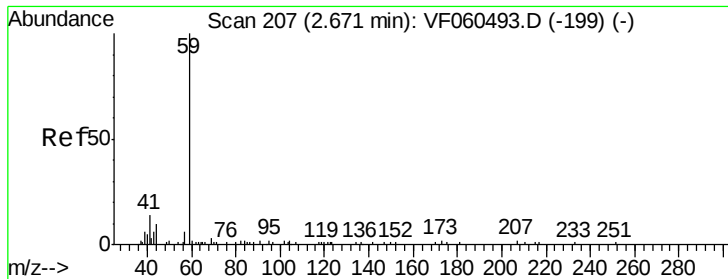


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

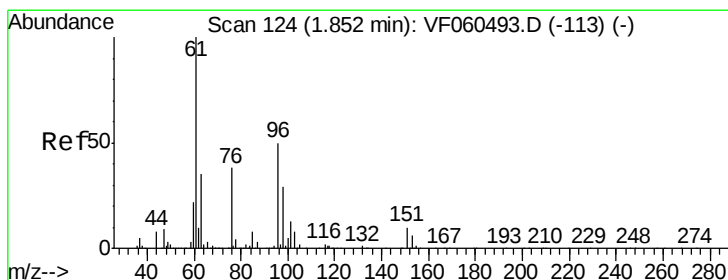
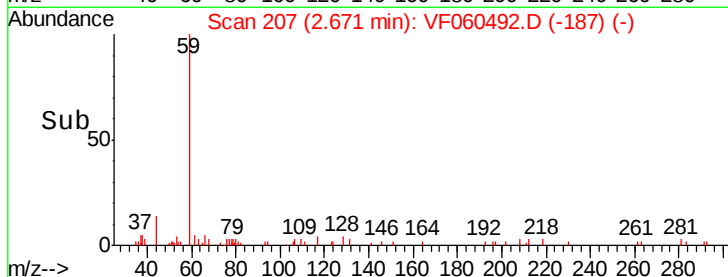
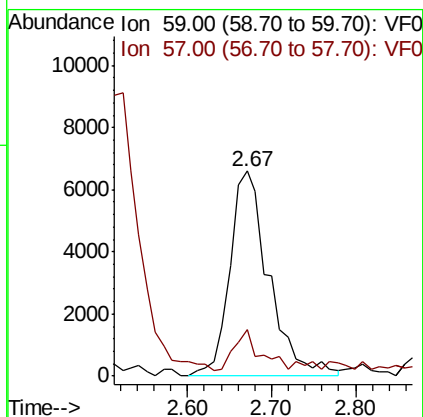
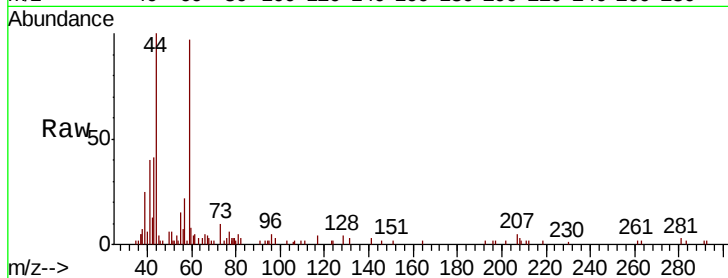




#11
Tert butyl alcohol
Concen: 94.680 ug/l
RT: 2.67 min Scan# 207
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

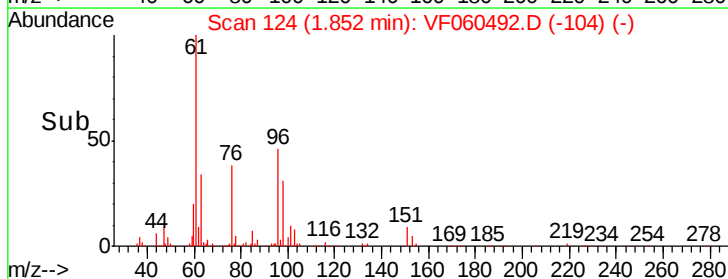
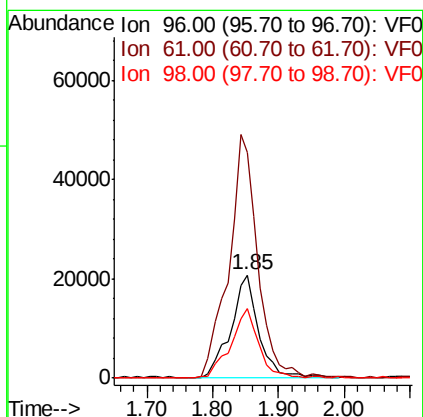
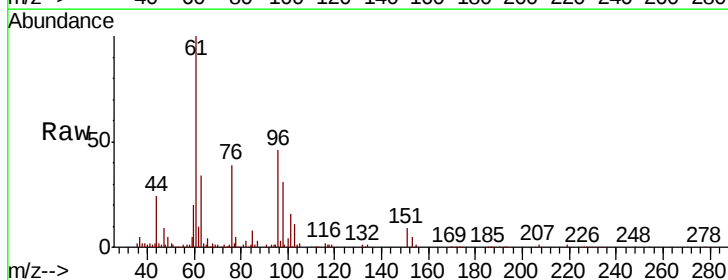
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

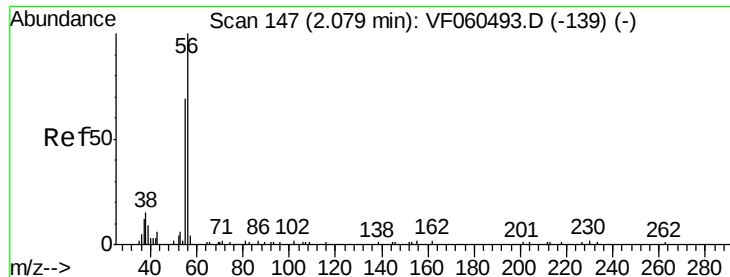
Tgt Ion: 59 Resp: 21365
Ion Ratio Lower Upper
59 100
57 22.5 10.2 15.2#



#12
1,1-Dichloroethene
Concen: 20.406 ug/l
RT: 1.85 min Scan# 124
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion: 96 Resp: 60900
Ion Ratio Lower Upper
96 100
61 218.7 161.9 242.9
98 68.2 47.4 71.2





#13

Acrolein

Concen: 90.726 ug/l

RT: 2.07 min Scan# 146

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

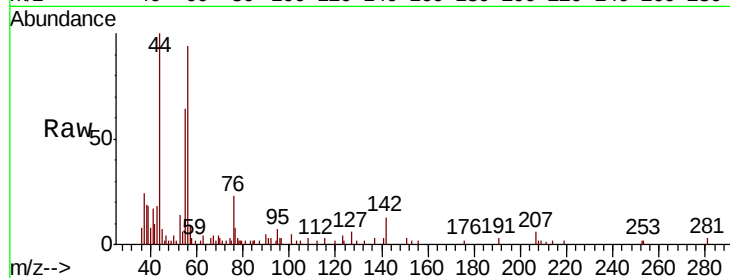
VSTDIC020

Tgt Ion: 56 Resp: 15267

Ion Ratio Lower Upper

56 100

55 68.5 55.3 82.9



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.07

6000

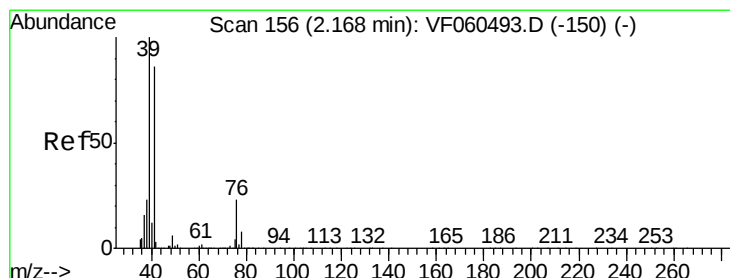
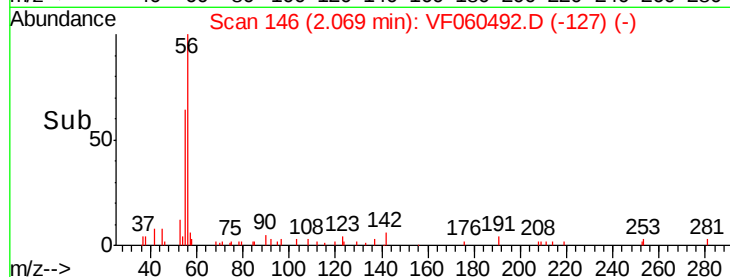
4000

2000

0

Time-->

2.00 2.10 2.20



#14

Allyl chloride

Concen: 19.744 ug/l

RT: 2.17 min Scan# 156

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

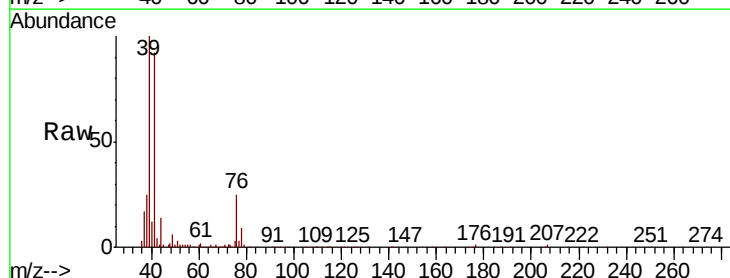
Tgt Ion: 41 Resp: 92037

Ion Ratio Lower Upper

41 100

39 109.2 93.1 139.7

76 26.9 21.6 32.4



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

60000

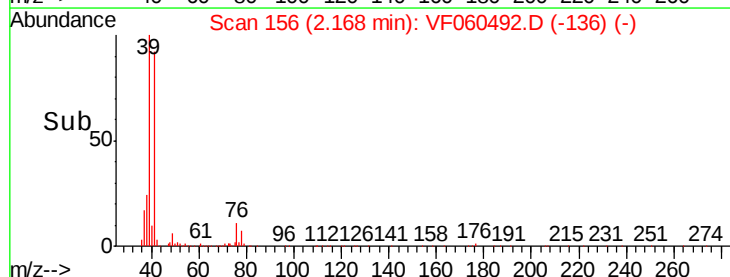
40000

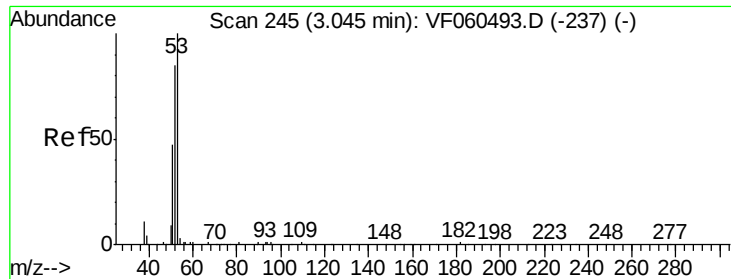
20000

0

Time-->

2.10 2.15 2.20 2.25





#15

Acrylonitrile

Concen: 110.113 ug/l

RT: 3.05 min Scan# 245

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

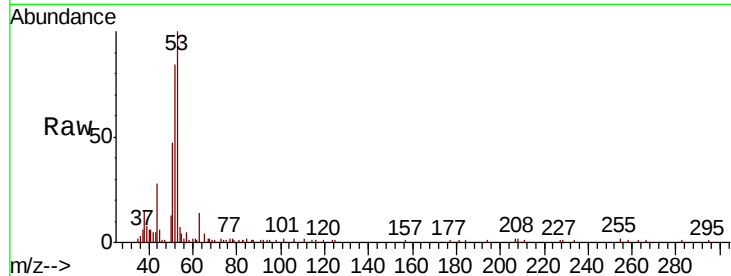
Tgt Ion: 53 Resp: 43634

Ion Ratio Lower Upper

53 100

52 84.3 67.5 101.3

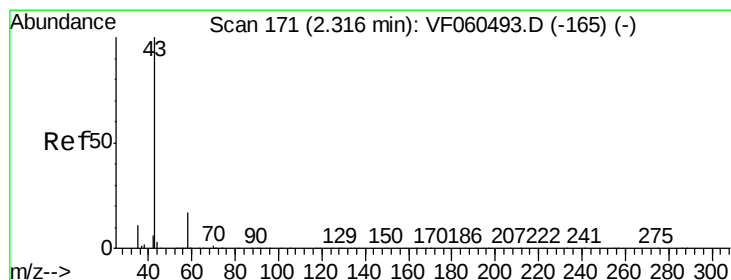
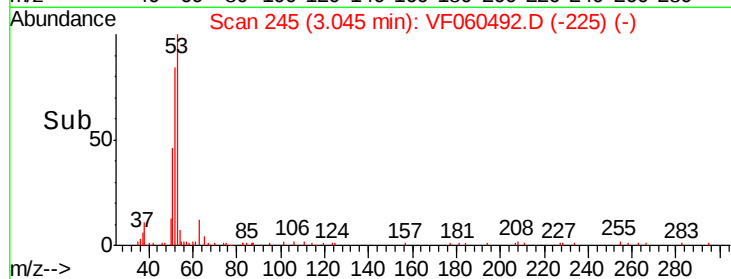
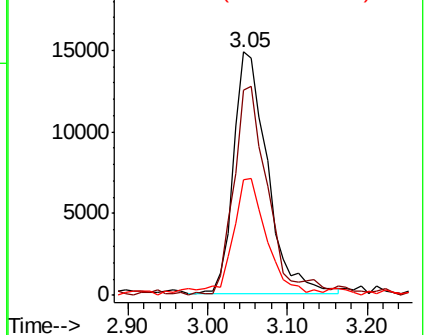
51 47.2 38.2 57.4



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: 98.100 ug/l

RT: 2.33 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF060492.D

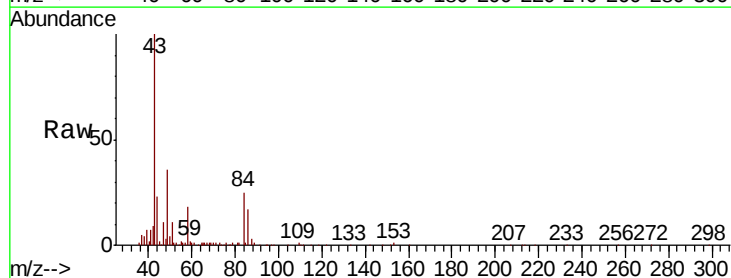
Acq: 9 Oct 2018 15:43

Tgt Ion: 43 Resp: 88814

Ion Ratio Lower Upper

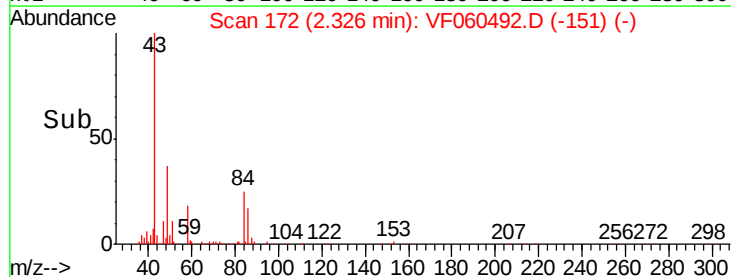
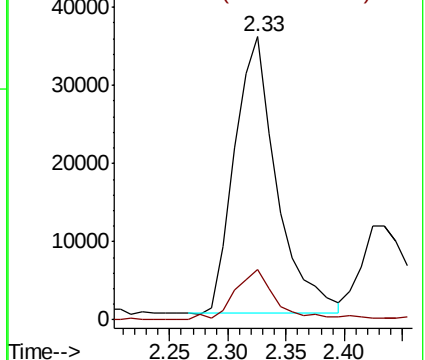
43 100

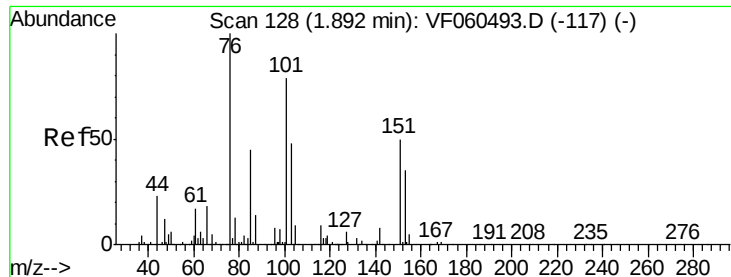
58 17.9 13.2 19.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

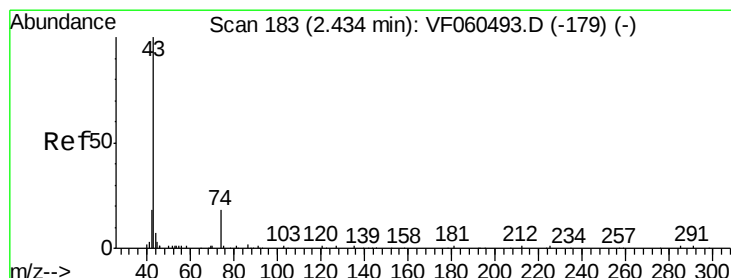
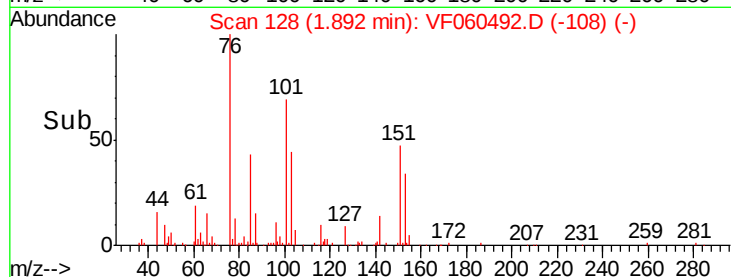
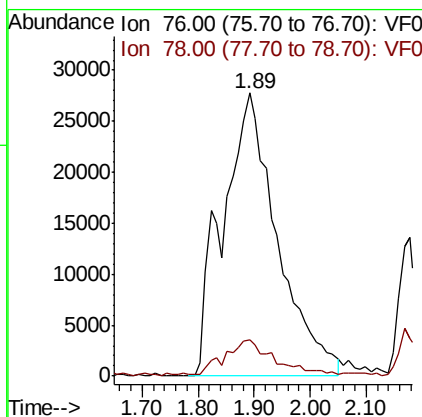
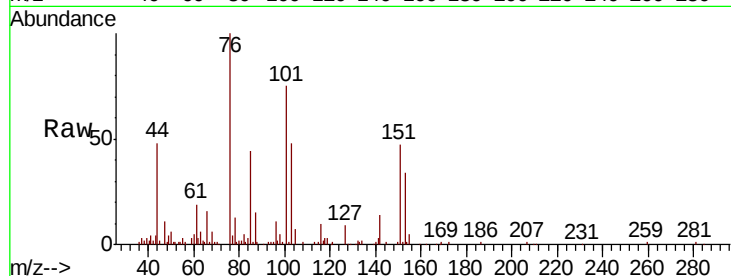




#17
Carbon Disulfide
Concen: 21.271 ug/l
RT: 1.89 min Scan# 128
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

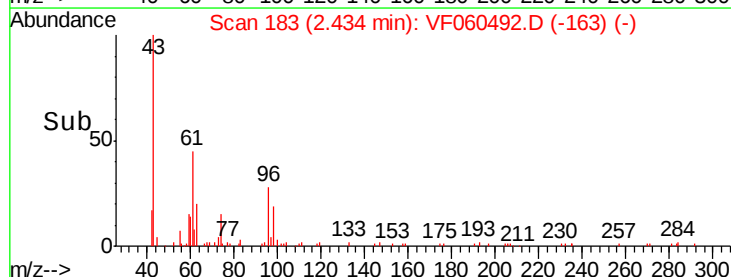
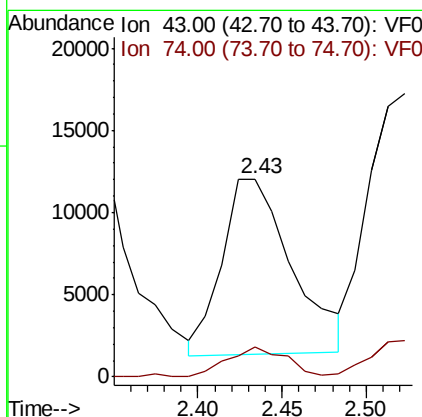
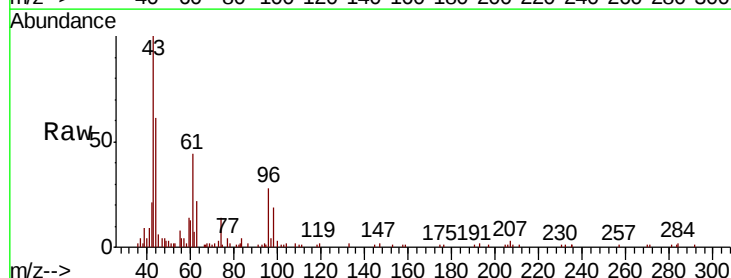
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

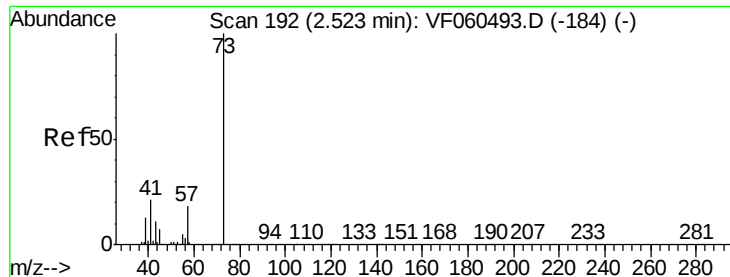
Tgt Ion: 76 Resp: 187811
Ion Ratio Lower Upper
76 100
78 13.1 10.5 15.7



#18
Methyl Acetate
Concen: 19.323 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion: 43 Resp: 30882
Ion Ratio Lower Upper
43 100
74 15.2 12.9 19.3



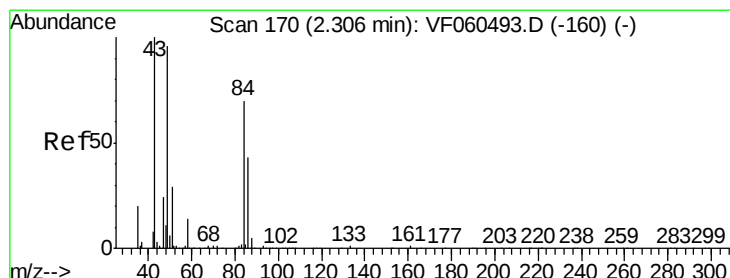
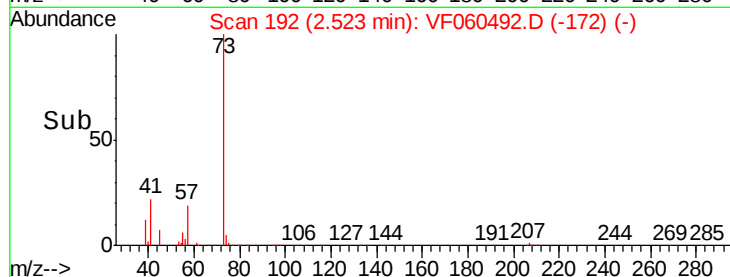
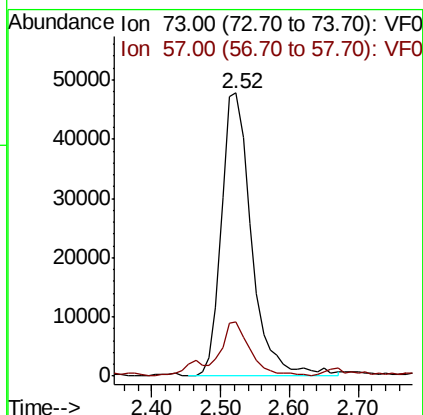
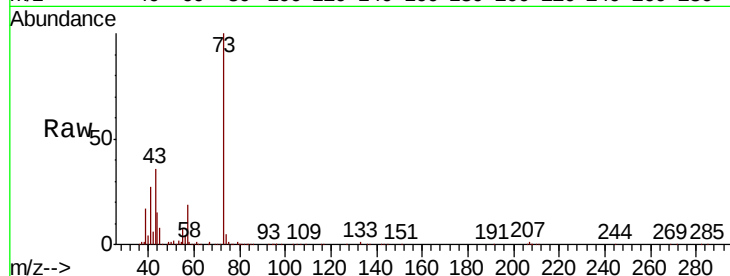


#19

Methyl tert-butyl Ether
 Concen: 20.060 ug/l
 RT: 2.52 min Scan# 192
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

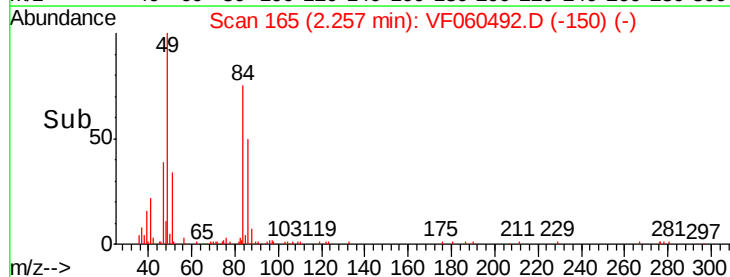
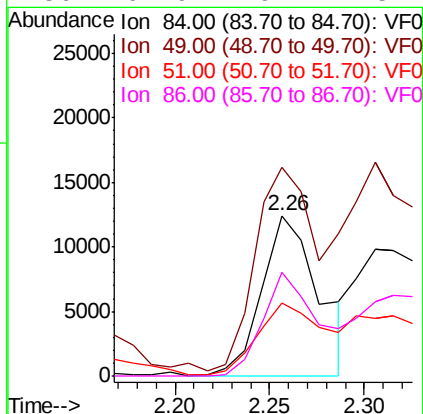
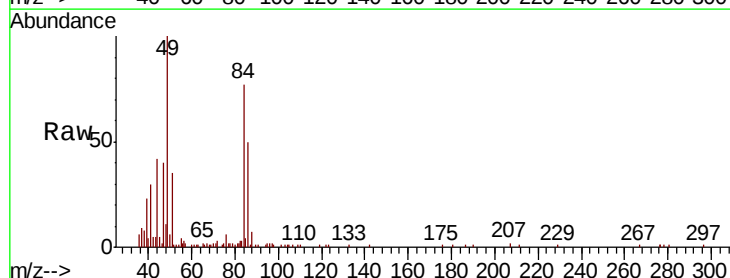
Tgt Ion: 73 Resp: 143966
 Ion Ratio Lower Upper
 73 100
 57 19.1 15.0 22.6

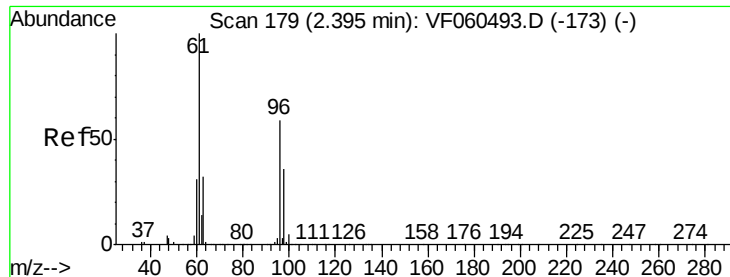


#20

Methylene Chloride
 Concen: 7.889 ug/l
 RT: 2.26 min Scan# 165
 Delta R.T. -0.05 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion: 84 Resp: 26214
 Ion Ratio Lower Upper
 84 100
 49 130.0 111.5 167.3
 51 47.2 34.6 52.0
 86 64.9 49.1 73.7





#21

trans-1,2-Dichloroethene

Concen: 19.711 ug/l

RT: 2.39 min Scan# 179

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

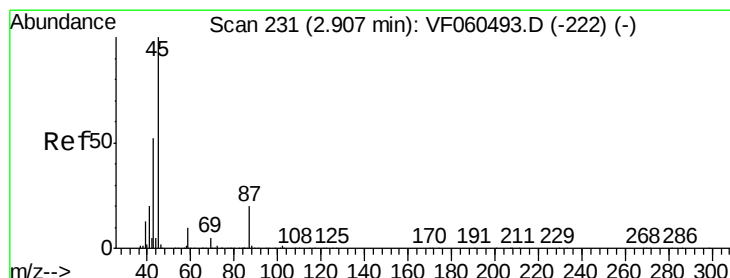
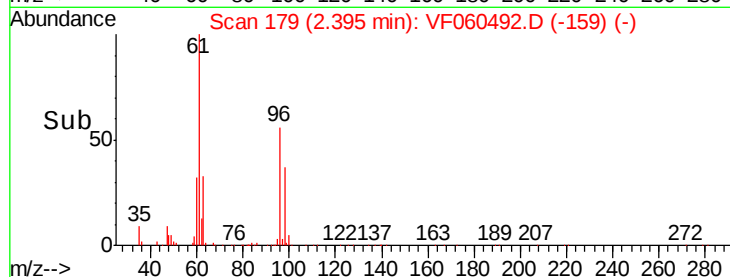
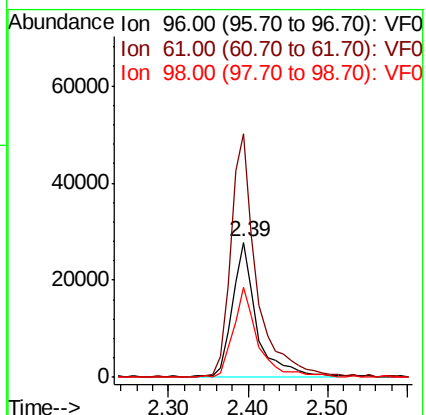
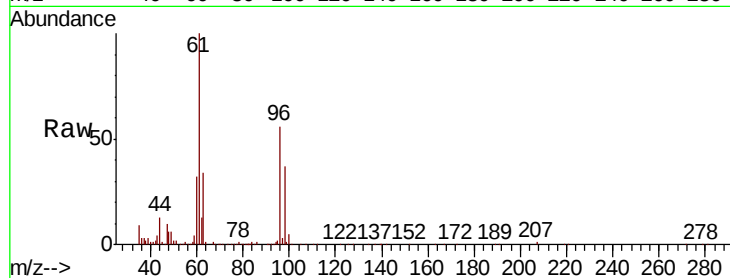
Tgt Ion: 96 Resp: 58448

Ion Ratio Lower Upper

96 100

61 179.8 136.2 204.4

98 66.3 49.7 74.5



#22

Diisopropyl ether

Concen: 22.656 ug/l

RT: 2.91 min Scan# 231

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion: 45 Resp: 199352

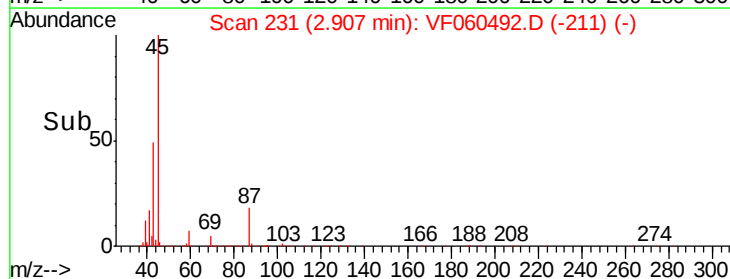
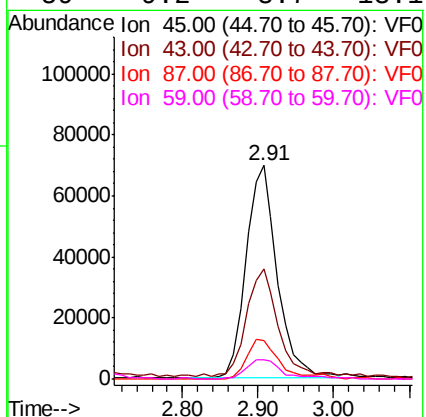
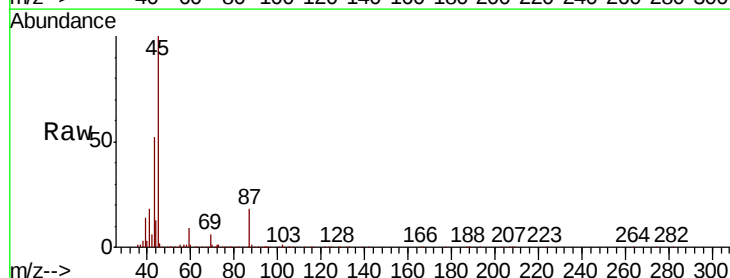
Ion Ratio Lower Upper

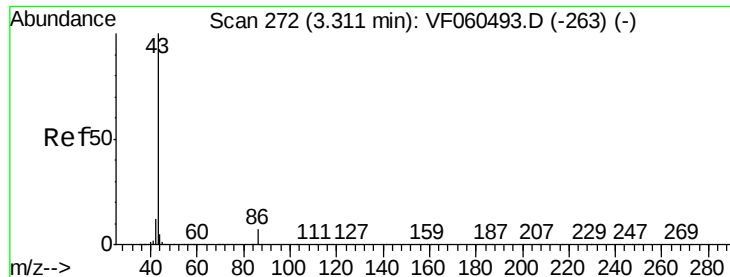
45 100

43 51.7 41.8 62.8

87 18.2 15.7 23.5

59 9.2 8.7 13.1





#23

Vinyl Acetate

Concen: 107.794 ug/l

RT: 3.30 min Scan# 271

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

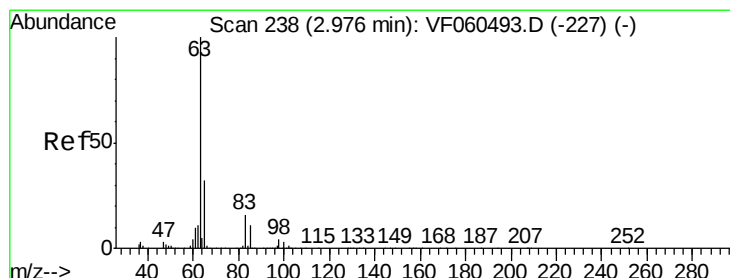
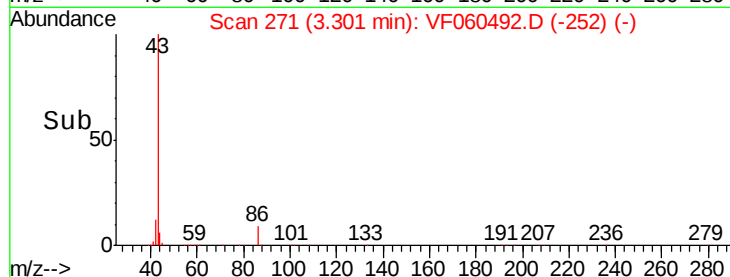
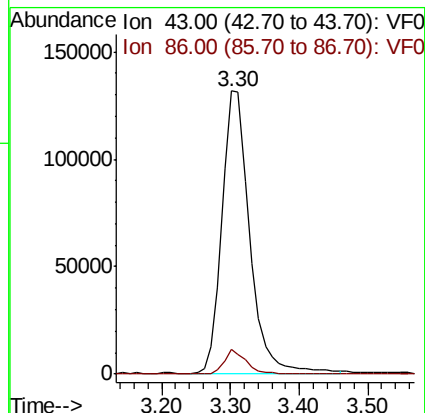
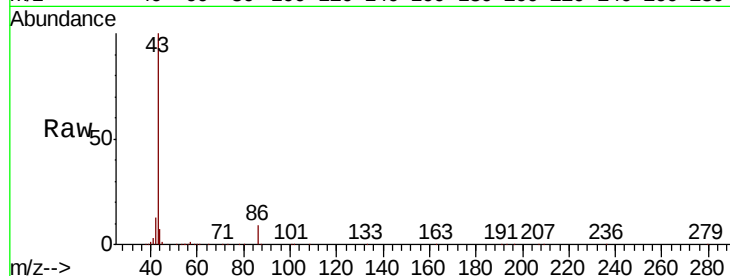
VSTDIC020

Tgt Ion: 43 Resp: 366483

Ion Ratio Lower Upper

43 100

86 8.8 5.8 8.8#



#24

1,1-Dichloroethane

Concen: 22.229 ug/l

RT: 2.98 min Scan# 238

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

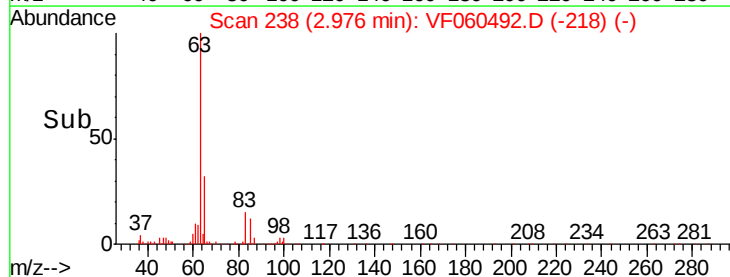
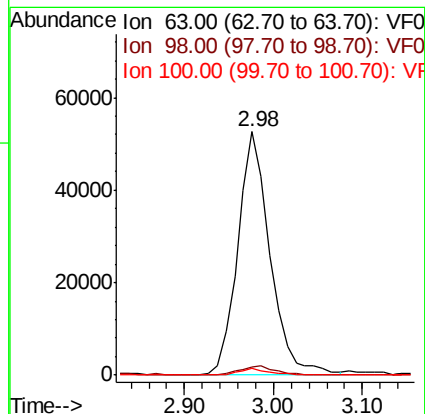
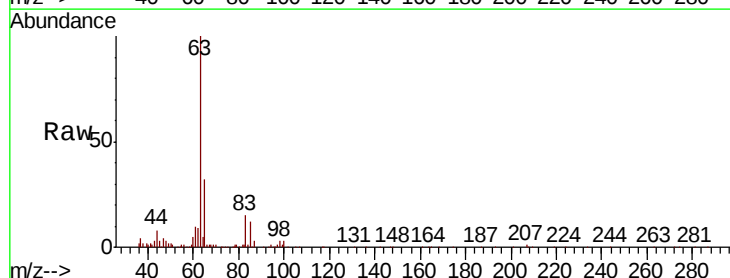
Tgt Ion: 63 Resp: 131667

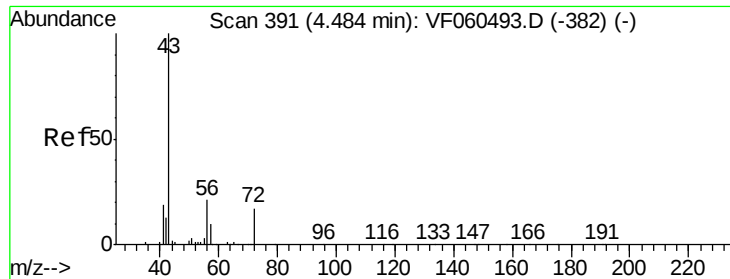
Ion Ratio Lower Upper

63 100

98 3.5 2.2 6.6

100 2.6 1.5 4.4





#25

2-Butanone

Concen: 99.972 ug/l

RT: 4.47 min Scan# 390

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

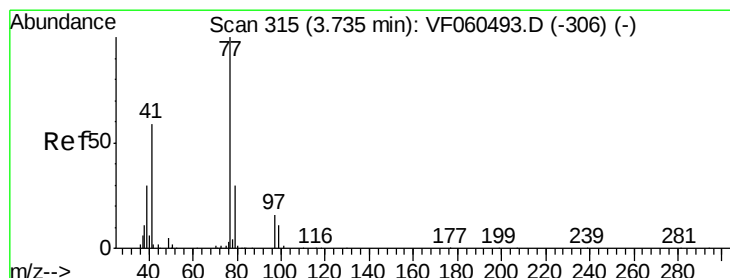
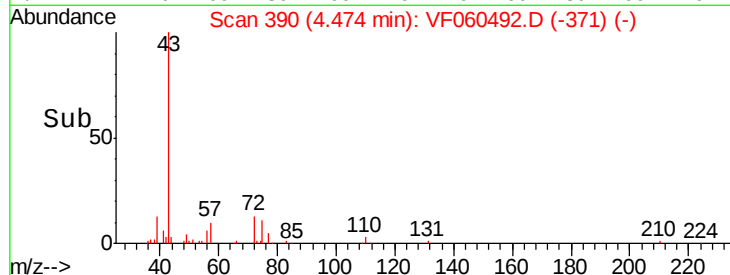
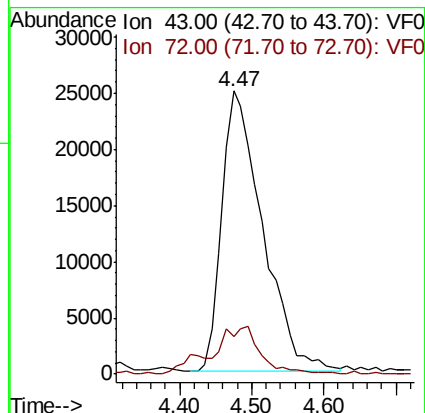
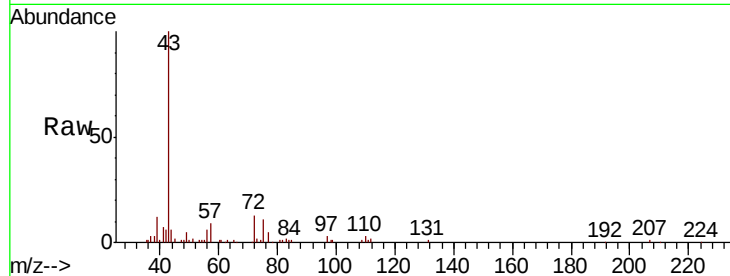
VSTDIC020

Tgt Ion: 43 Resp: 97845

Ion Ratio Lower Upper

43 100

72 13.4 15.0 22.6#



#26

2,2-Dichloropropane

Concen: 22.172 ug/l

RT: 3.73 min Scan# 314

Delta R.T. -0.01 min

Lab File: VF060492.D

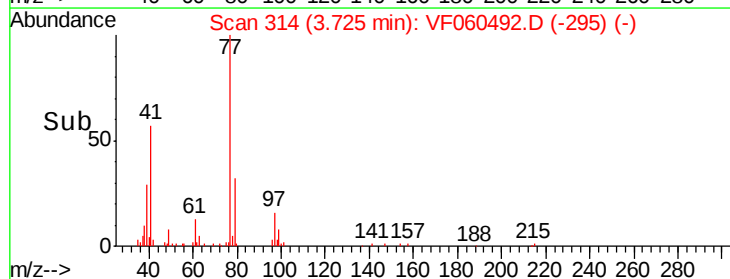
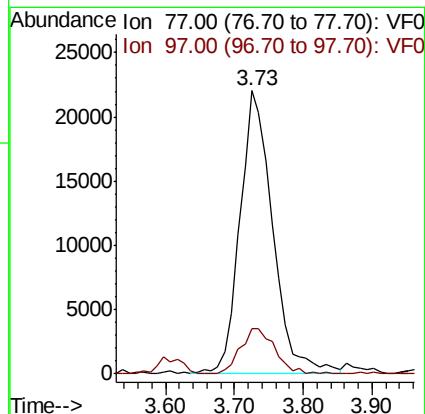
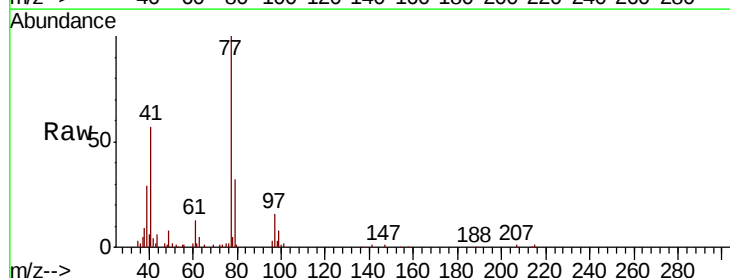
Acq: 9 Oct 2018 15:43

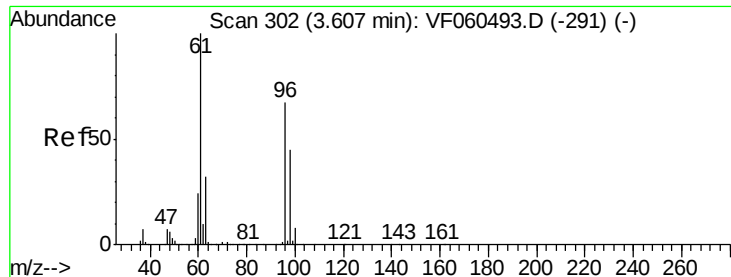
Tgt Ion: 77 Resp: 72841

Ion Ratio Lower Upper

77 100

97 15.9 8.6 25.7



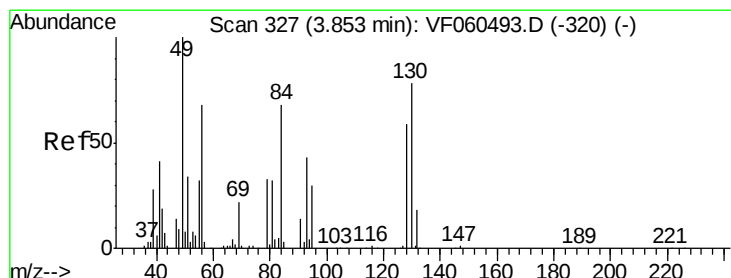
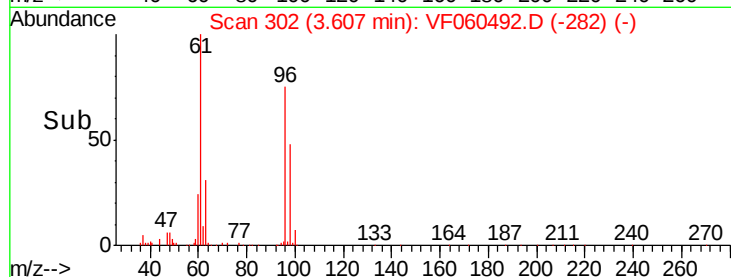
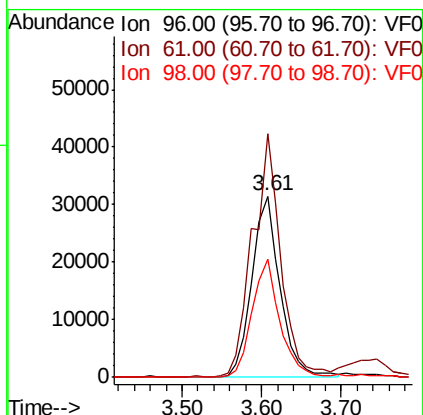
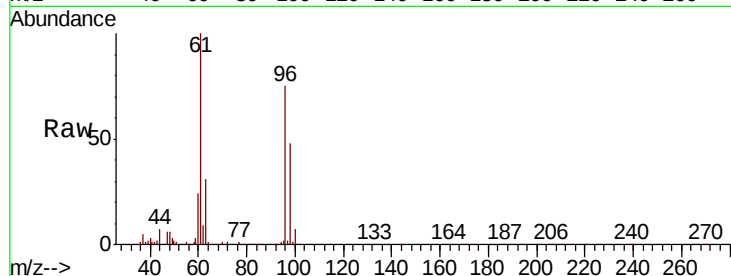


#27

cis-1,2-Dichloroethene
 Concen: 23.110 ug/l
 RT: 3.61 min Scan# 302
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

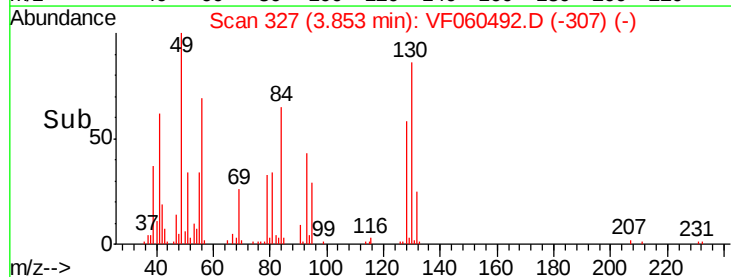
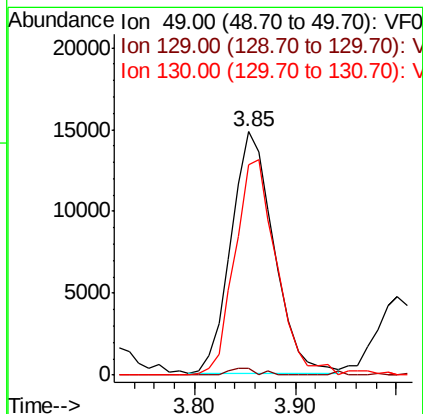
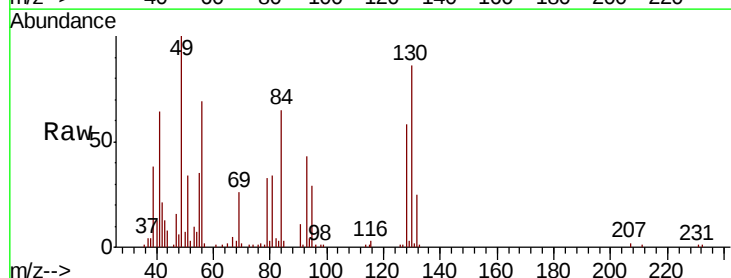
Tgt Ion: 96 Resp: 76802
 Ion Ratio Lower Upper
 96 100
 61 134.2 0.0 298.0
 98 65.0 0.0 135.0

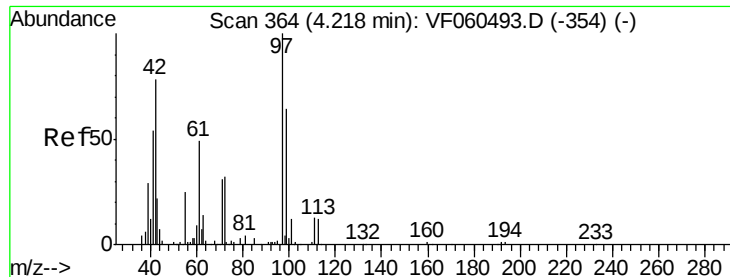


#28

Bromochloromethane
 Concen: 20.627 ug/l
 RT: 3.85 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion: 49 Resp: 43283
 Ion Ratio Lower Upper
 49 100
 129 2.7 0.0 0.0#
 130 86.4 62.2 93.2





#29

Tetrahydrofuran

Concen: 97.007 ug/l

RT: 4.22 min Scan# 364

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

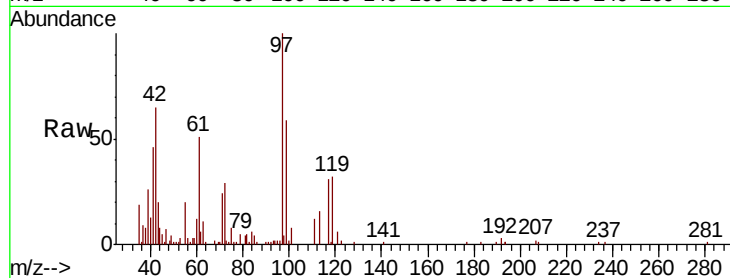
Tgt Ion: 42 Resp: 38375

Ion Ratio Lower Upper

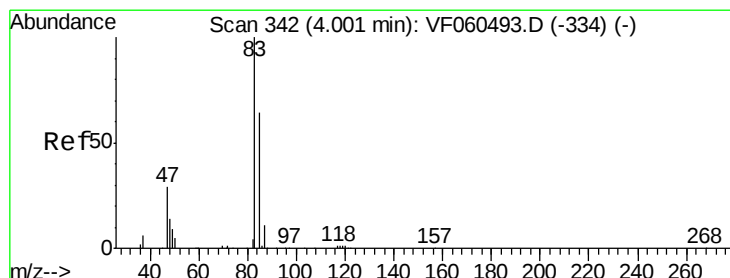
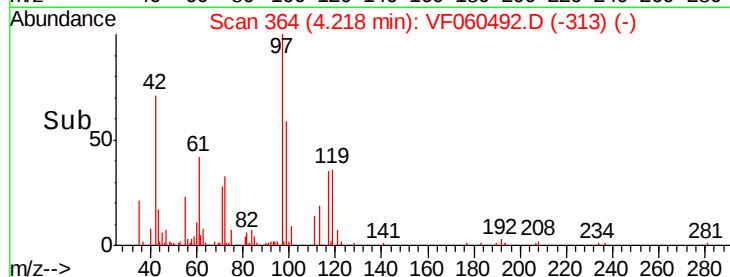
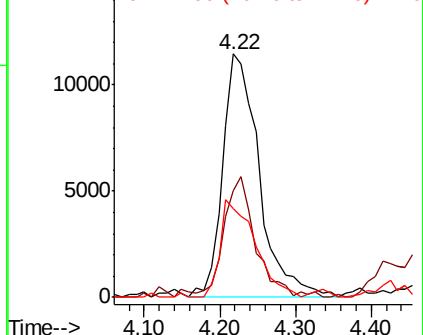
42 100

72 44.5 31.9 47.9

71 38.4 33.4 50.0



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: 21.572 ug/l

RT: 4.01 min Scan# 343

Delta R.T. 0.01 min

Lab File: VF060492.D

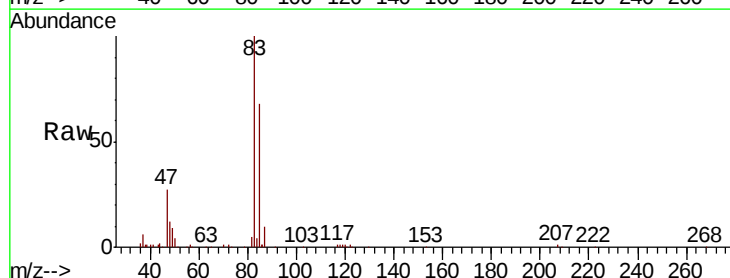
Acq: 9 Oct 2018 15:43

Tgt Ion: 83 Resp: 154012

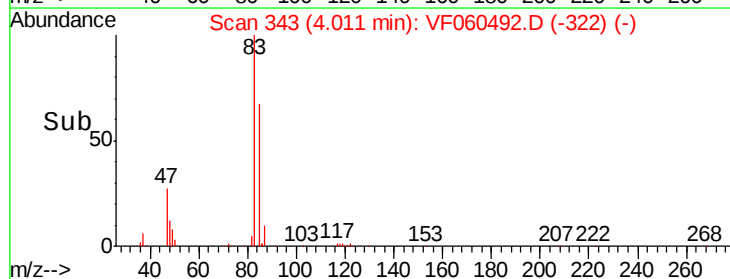
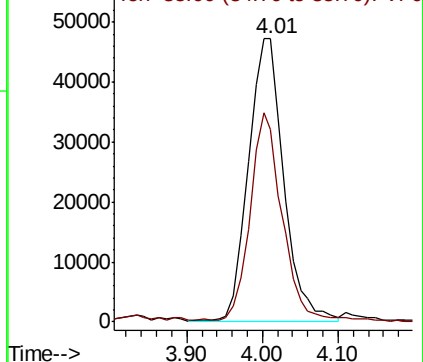
Ion Ratio Lower Upper

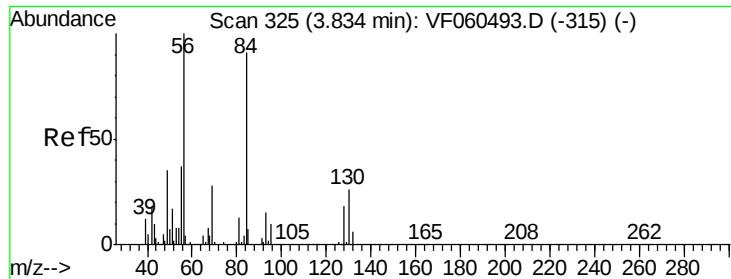
83 100

85 68.6 51.7 77.5



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

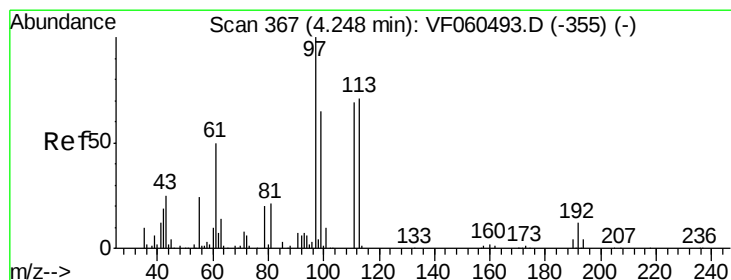
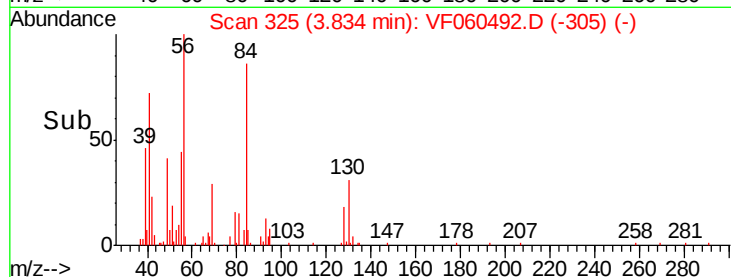
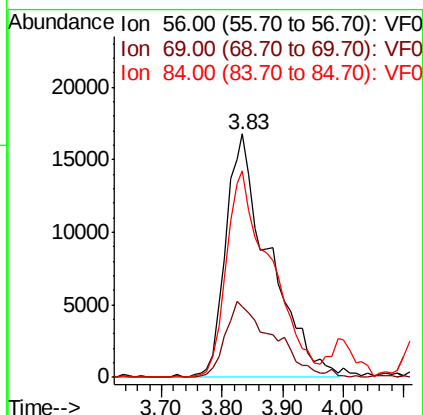
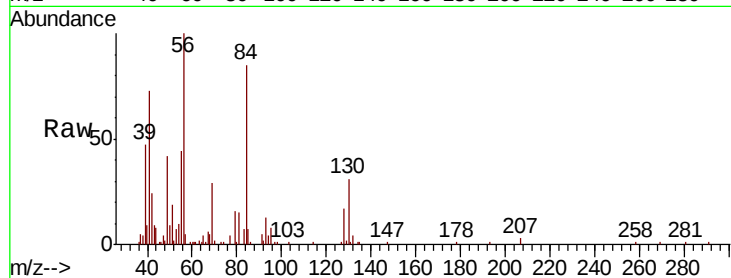




#31
Cyclohexane
Concen: 20.272 ug/l
RT: 3.83 min Scan# 325
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

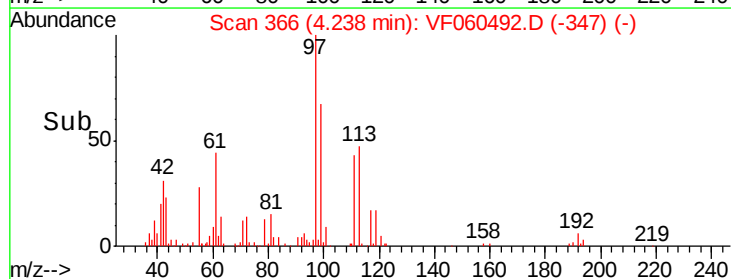
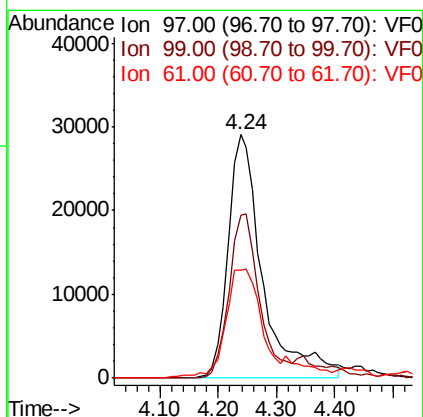
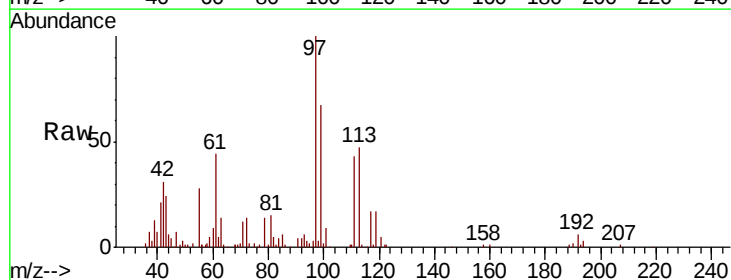
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

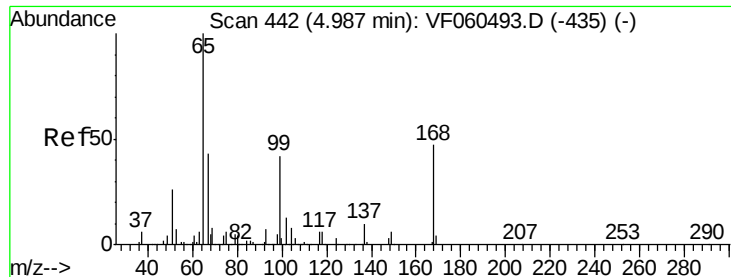
Tgt Ion: 56 Resp: 83327
Ion Ratio Lower Upper
56 100
69 29.0 22.7 34.1
84 85.0 73.1 109.7



#32
1,1,1-Trichloroethane
Concen: 20.451 ug/l
RT: 4.24 min Scan# 366
Delta R.T. -0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion: 97 Resp: 120029
Ion Ratio Lower Upper
97 100
99 66.8 52.3 78.5
61 44.5 39.8 59.8

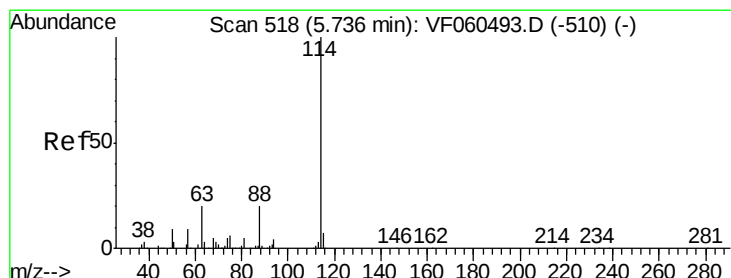
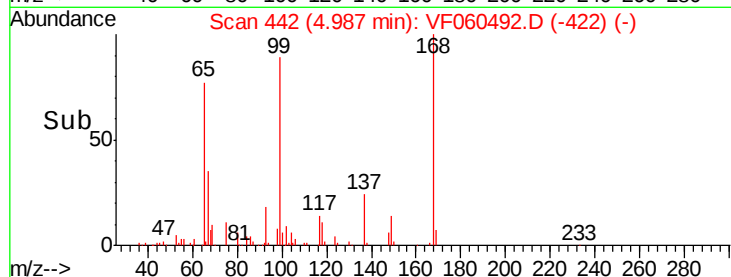
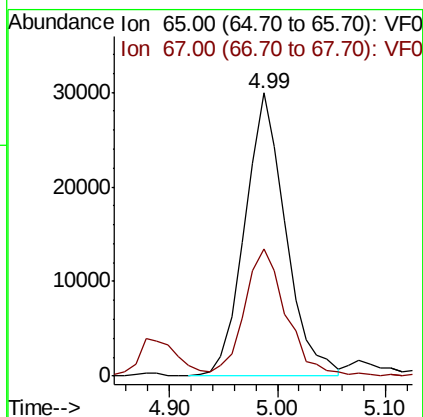
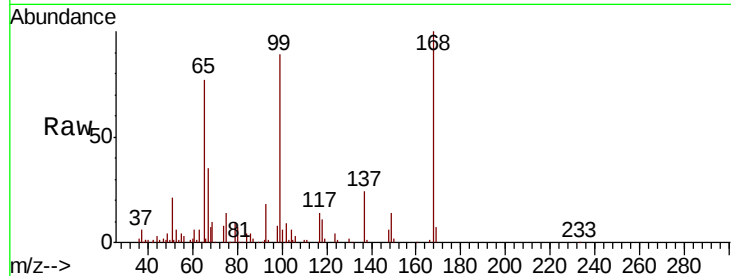




#33
 1,2-Dichloroethane-d4
 Concen: 20.712 ug/l
 RT: 4.99 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

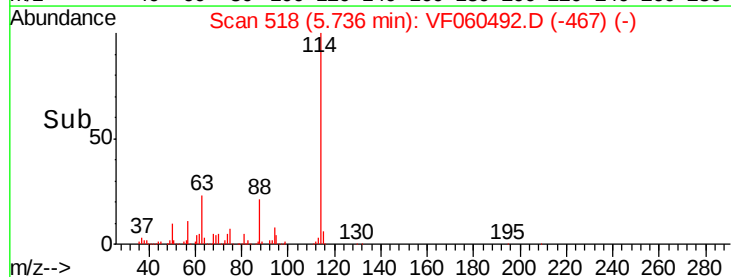
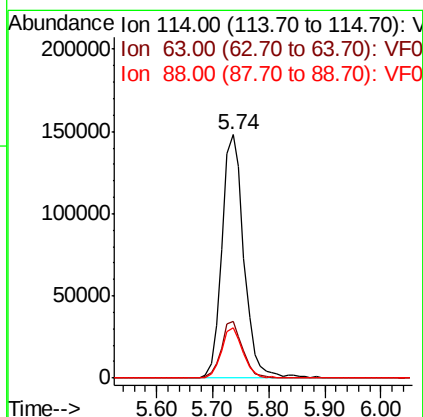
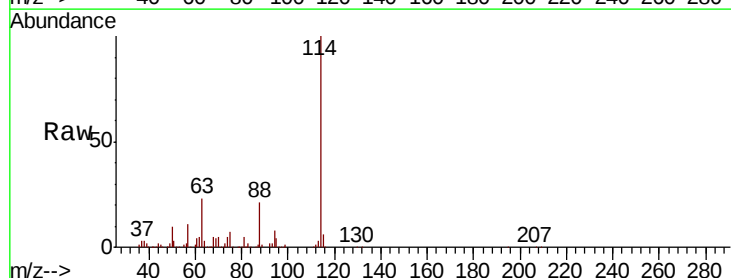
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

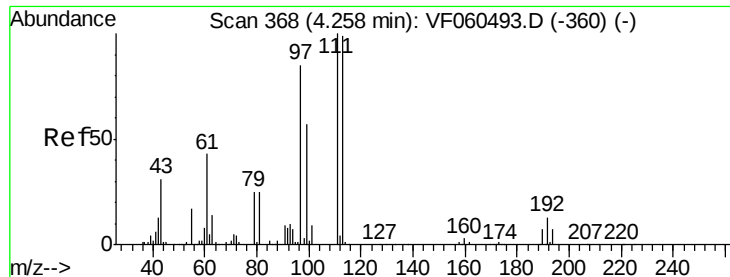
Tgt Ion: 65 Resp: 78706
 Ion Ratio Lower Upper
 65 100
 67 45.1 0.0 94.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.74 min Scan# 518
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion: 114 Resp: 405099
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 40.2
 88 20.8 0.0 40.2

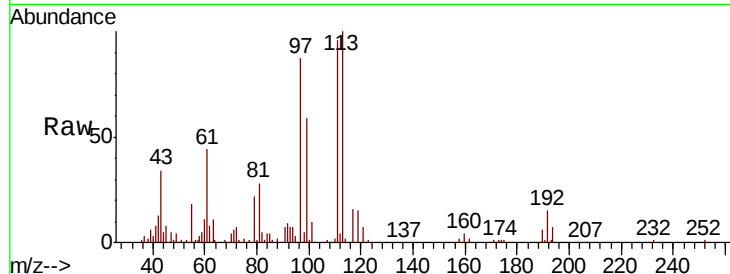




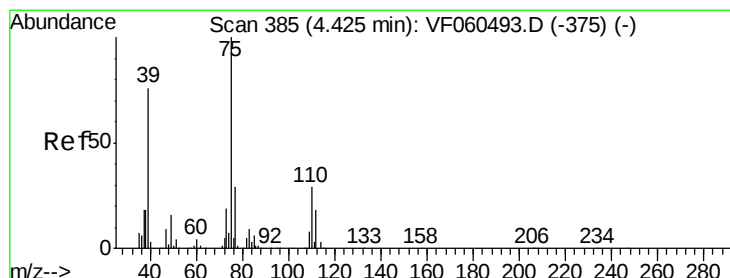
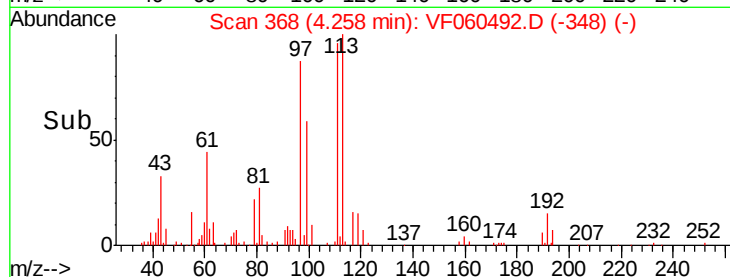
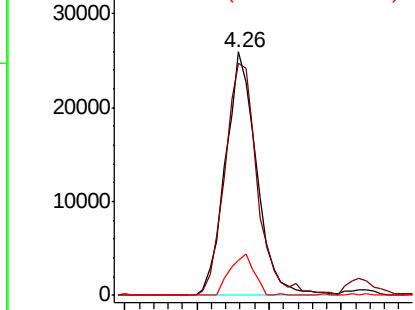
#35
 Dibromofluoromethane
 Concen: 20.529 ug/l
 RT: 4.26 min Scan# 368
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tgt Ion: 113 Resp: 77753
 Ion Ratio Lower Upper
 113 100
 111 95.6 81.0 121.6
 192 14.6 10.7 16.1

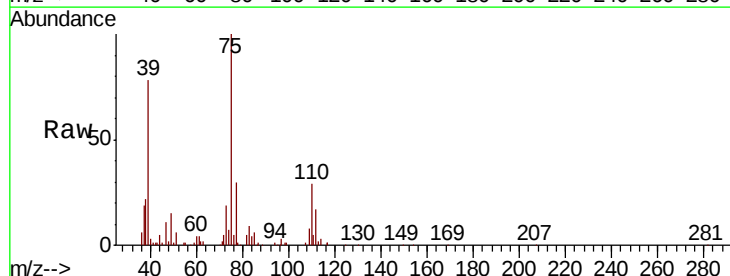


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

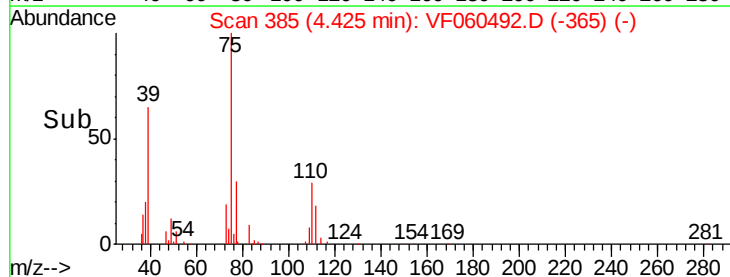
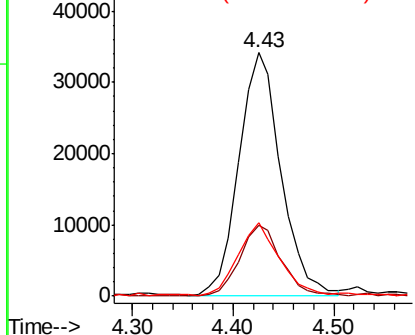


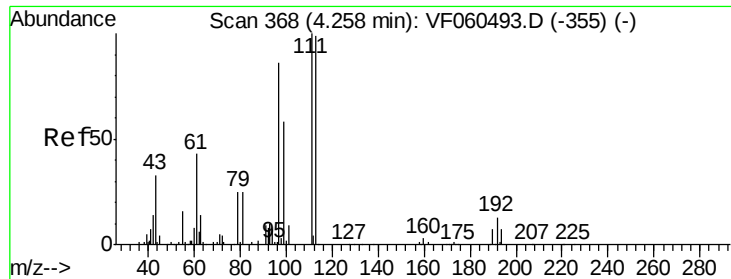
#36
 1,1-Dichloropropene
 Concen: 19.856 ug/l
 RT: 4.43 min Scan# 385
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion: 75 Resp: 98331
 Ion Ratio Lower Upper
 75 100
 110 28.9 14.4 43.2
 77 30.0 23.5 35.3



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

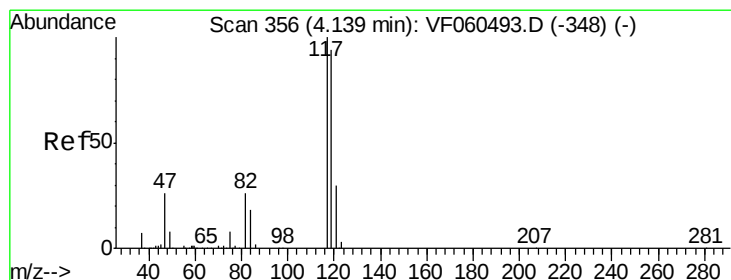
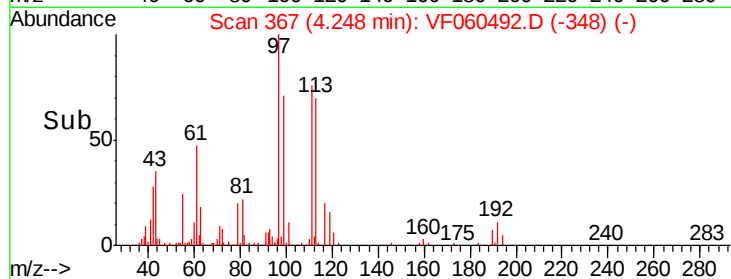
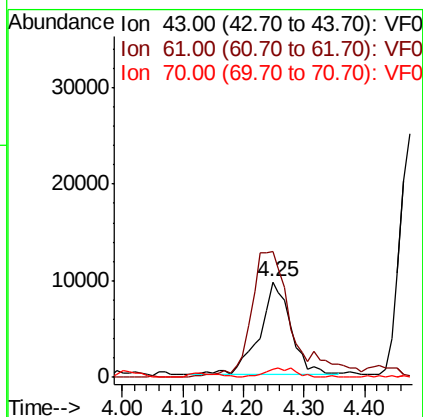
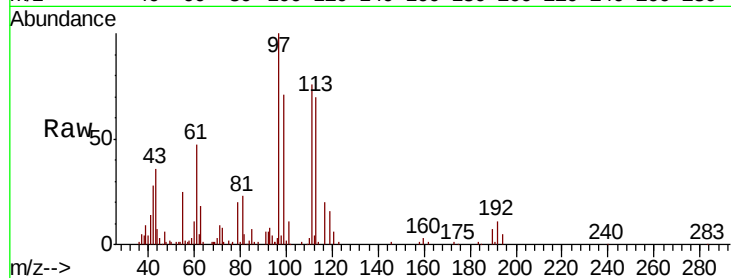




#37
 Ethyl Acetate
 Concen: 18.363 ug/l
 RT: 4.25 min Scan# 367
 Delta R.T. -0.01 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

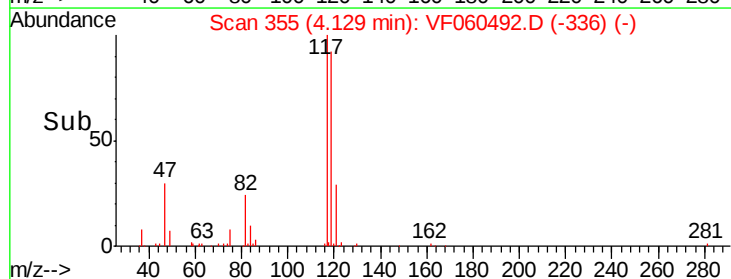
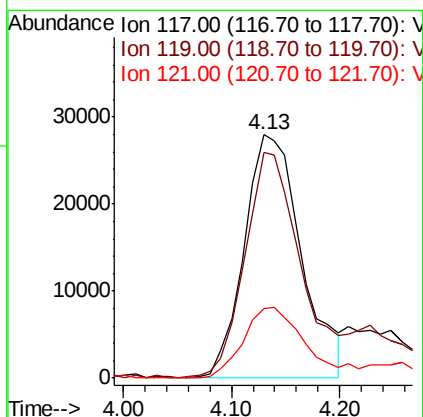
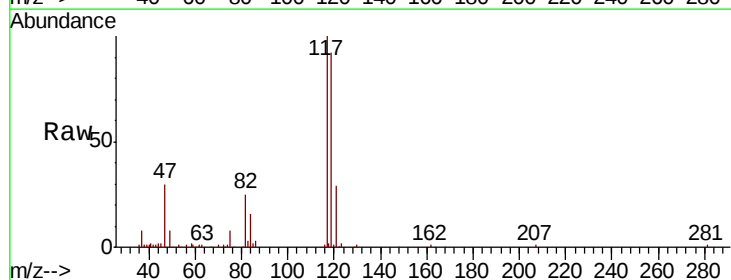
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

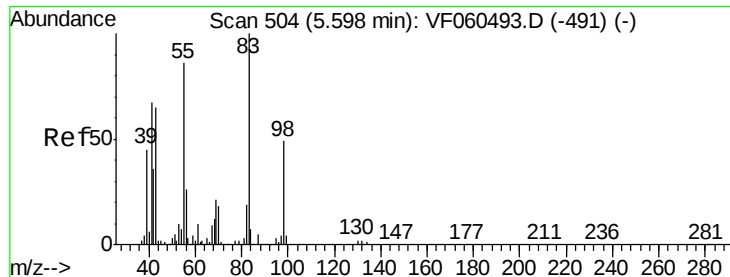
Tgt Ion: 43 Resp: 34745
 Ion Ratio Lower Upper
 43 100
 61 131.8 106.5 159.7
 70 8.2 6.5 9.7



#38
 Carbon Tetrachloride
 Concen: 17.557 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. -0.01 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion: 117 Resp: 102719
 Ion Ratio Lower Upper
 117 100
 119 92.5 75.0 112.4
 121 28.7 23.8 35.6

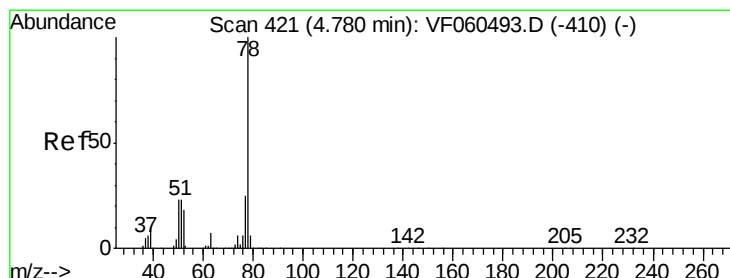
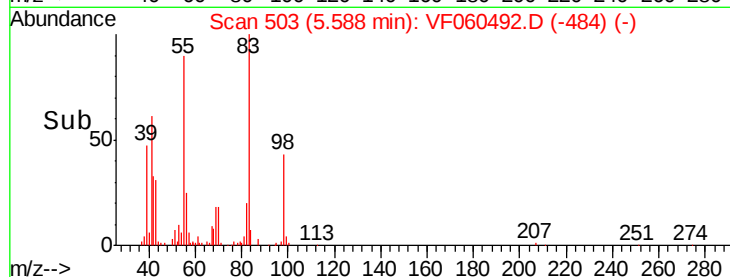
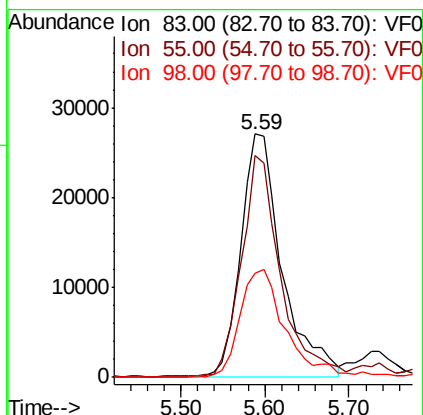
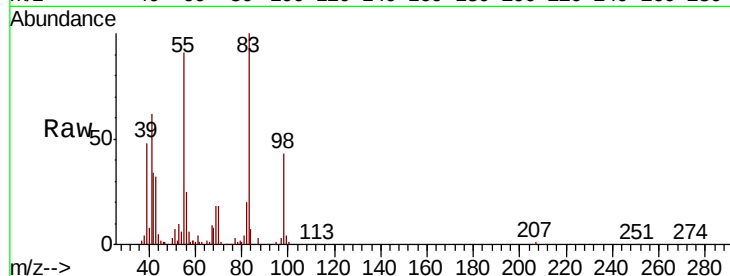




#39
Methylcyclohexane
Concen: 18.885 ug/l
RT: 5.59 min Scan# 503
Delta R.T. -0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

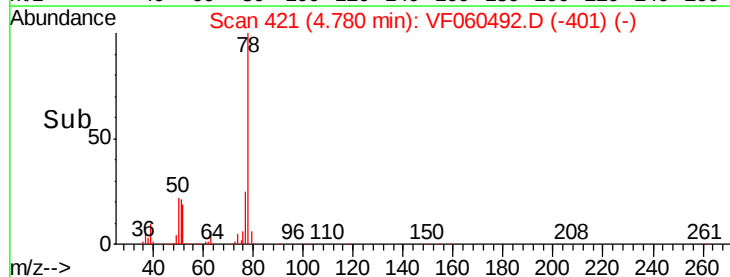
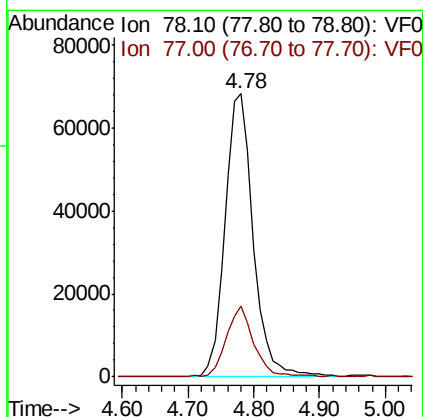
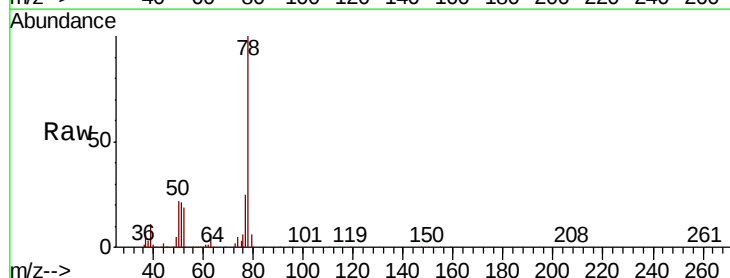
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

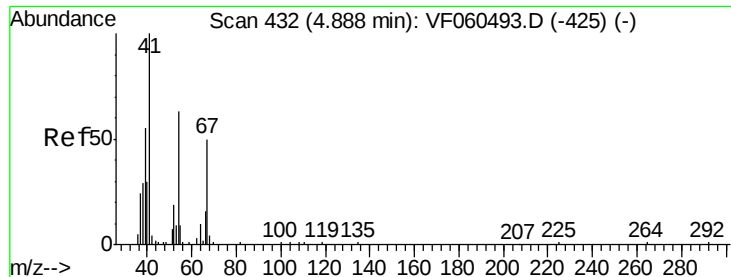
Tgt Ion: 83 Resp: 92874
Ion Ratio Lower Upper
83 100
55 91.1 69.2 103.8
98 42.7 39.6 59.4



#40
Benzene
Concen: 20.525 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion: 78 Resp: 204356
Ion Ratio Lower Upper
78 100
77 25.1 19.8 29.8





#41

Methacrylonitrile

Concen: 21.192 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 21511

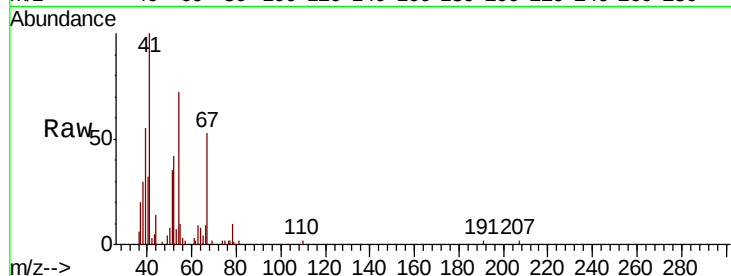
Ion Ratio Lower Upper

41 100

39 55.3 53.1 79.7

67 52.7 39.4 59.0

52 41.8 35.0 52.6

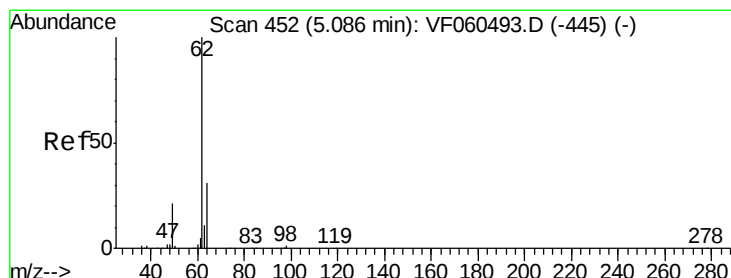
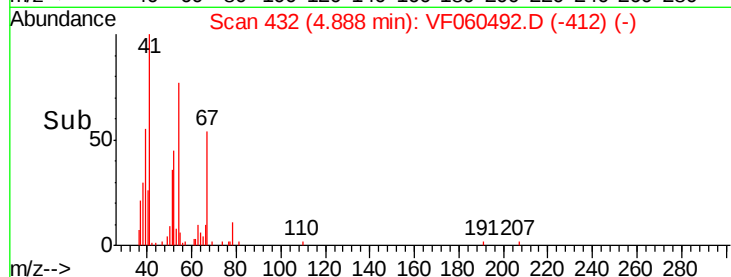
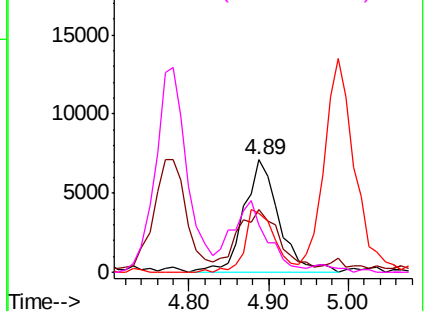


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 19.664 ug/l

RT: 5.09 min Scan# 452

Delta R.T. 0.00 min

Lab File: VF060492.D

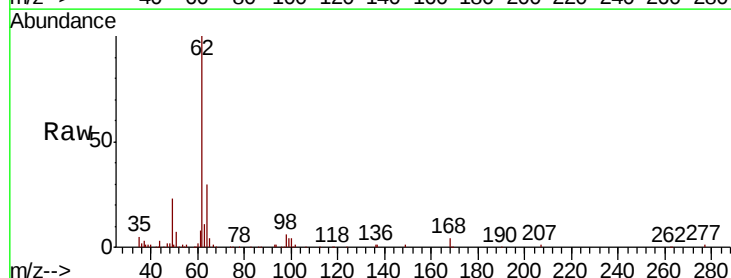
Acq: 9 Oct 2018 15:43

Tgt Ion: 62 Resp: 92743

Ion Ratio Lower Upper

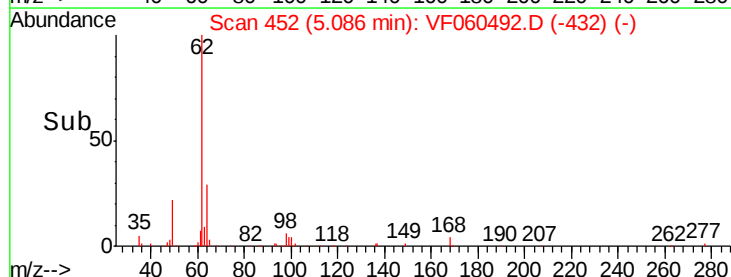
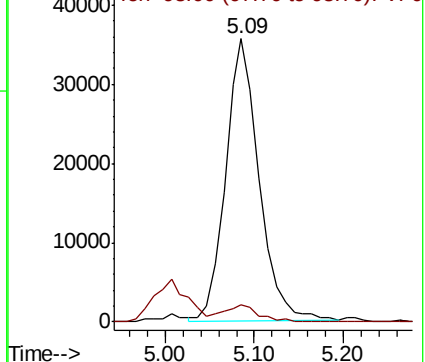
62 100

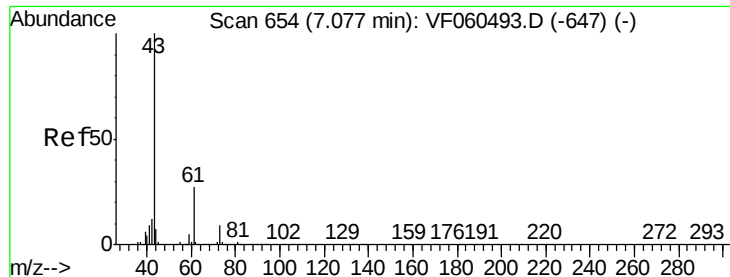
98 6.3 0.0 12.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 16.976 ug/l

RT: 7.08 min Scan# 654

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

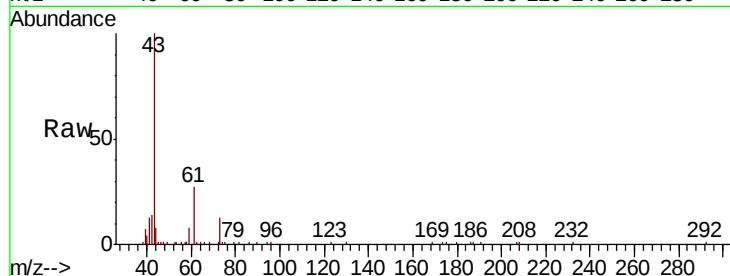
Tgt Ion: 43 Resp: 38977

Ion Ratio Lower Upper

43 100

61 26.5 21.6 32.4

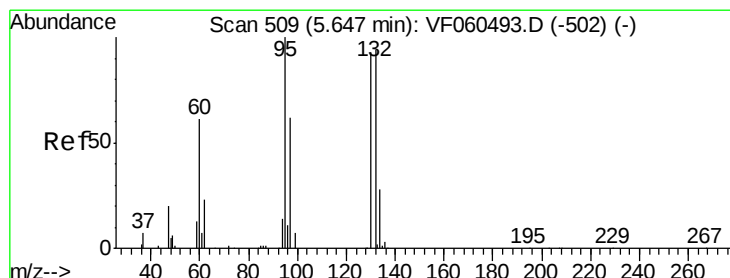
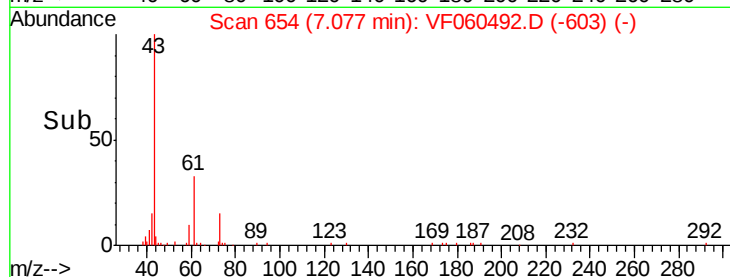
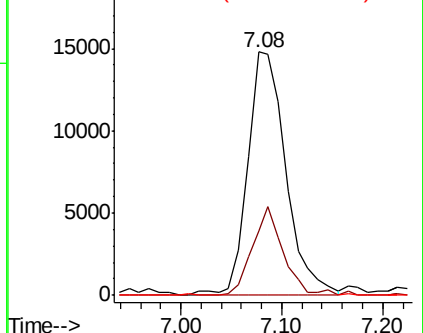
87 0.0 0.6 0.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 19.836 ug/l

RT: 5.64 min Scan# 508

Delta R.T. -0.01 min

Lab File: VF060492.D

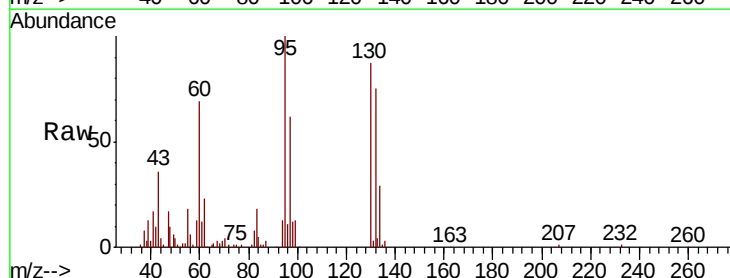
Acq: 9 Oct 2018 15:43

Tgt Ion: 130 Resp: 63496

Ion Ratio Lower Upper

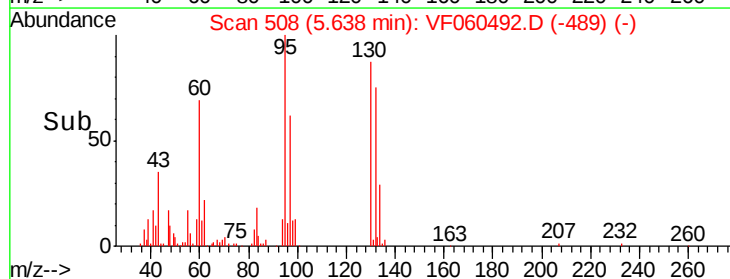
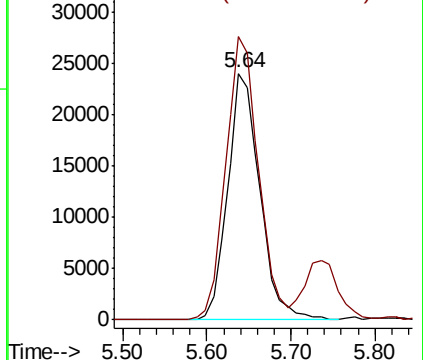
130 100

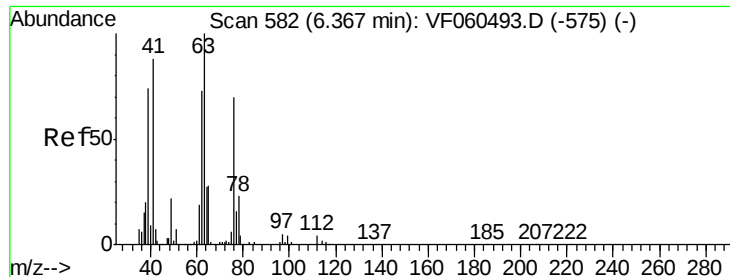
95 114.8 0.0 216.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 19.466 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

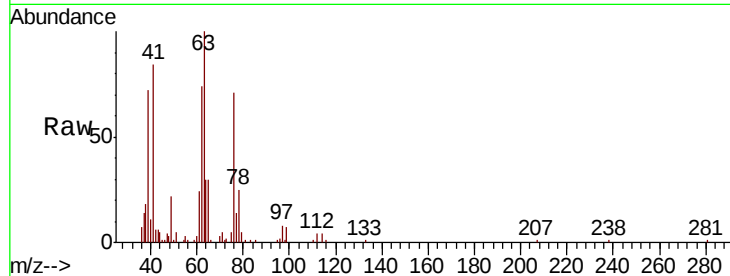
VSTDIC020

Tgt Ion: 63 Resp: 50883

Ion Ratio Lower Upper

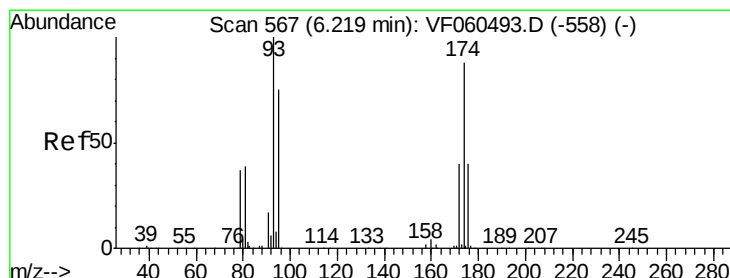
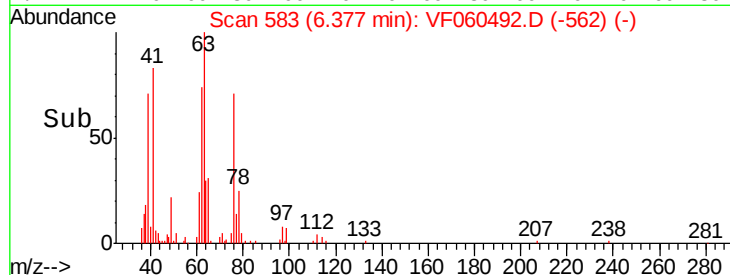
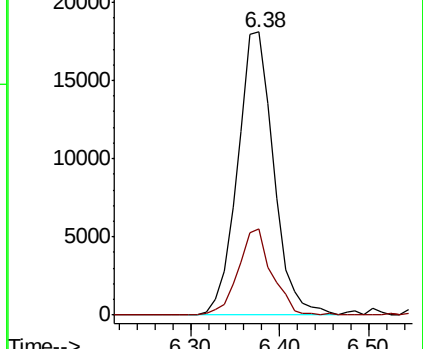
63 100

65 30.5 22.2 33.2



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 19.145 ug/l

RT: 6.22 min Scan# 567

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

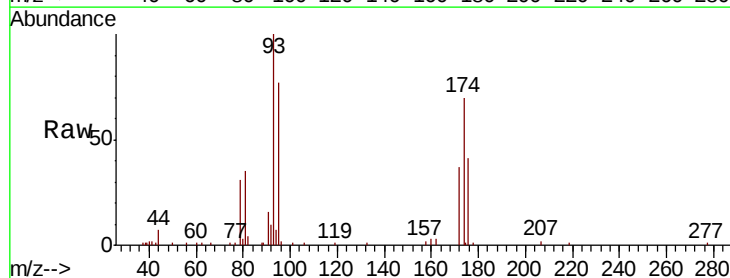
Tgt Ion: 93 Resp: 40317

Ion Ratio Lower Upper

93 100

95 76.6 60.0 90.0

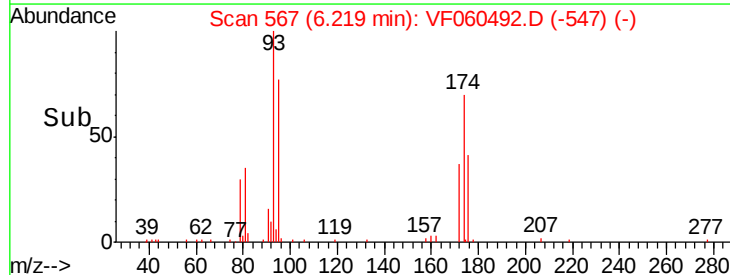
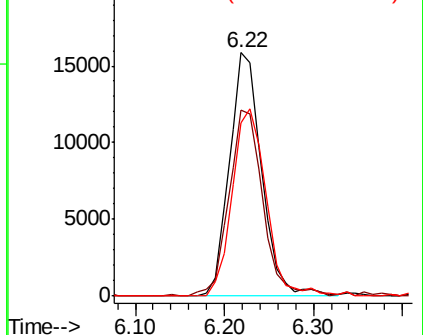
174 71.2 71.0 106.6

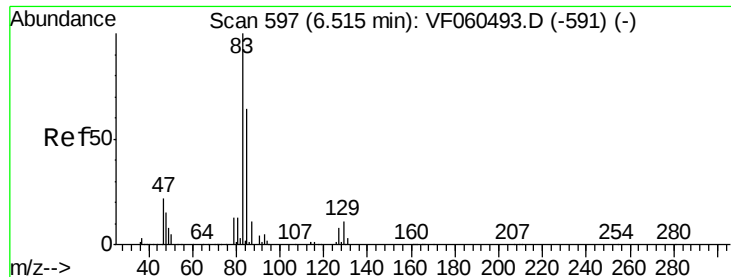


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 19.650 ug/l

RT: 6.51 min Scan# 597

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

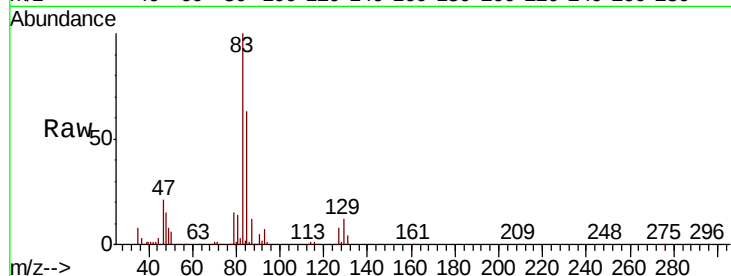
Tgt Ion: 83 Resp: 103095

Ion Ratio Lower Upper

83 100

85 62.8 51.2 76.8

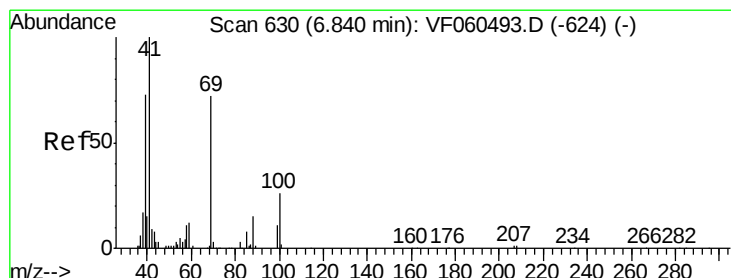
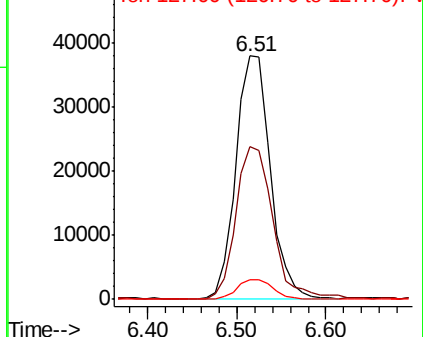
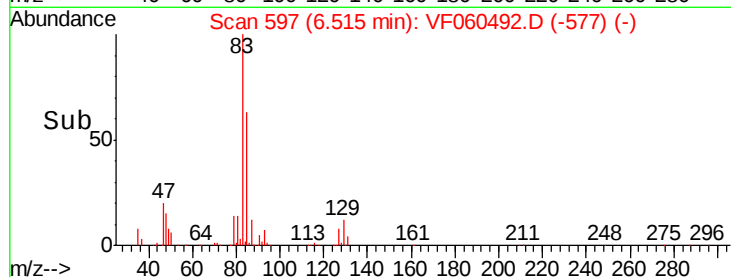
127 8.2 6.5 9.7



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: 17.726 ug/l

RT: 6.84 min Scan# 630

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

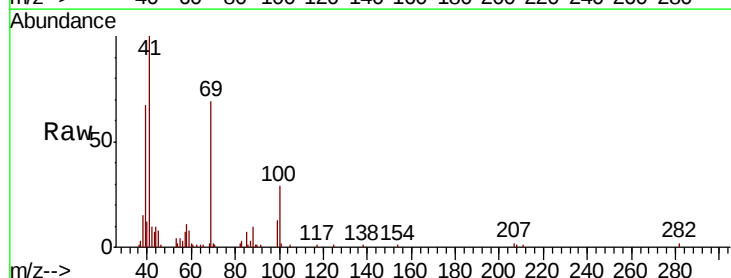
Tgt Ion: 41 Resp: 29095

Ion Ratio Lower Upper

41 100

69 69.1 57.8 86.8

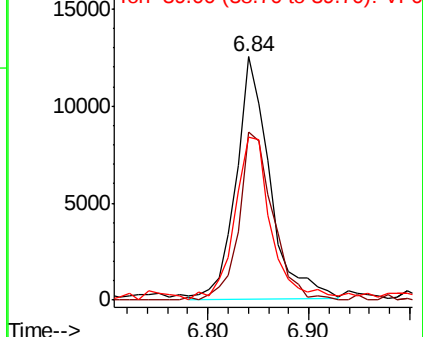
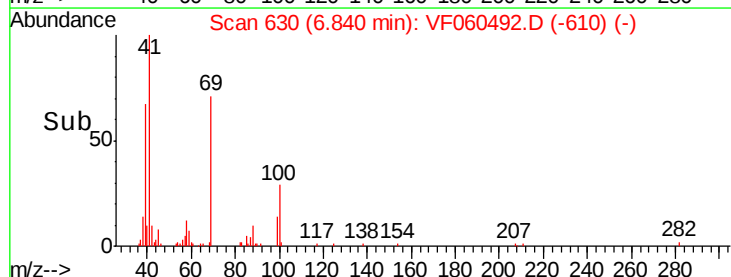
39 66.9 59.1 88.7

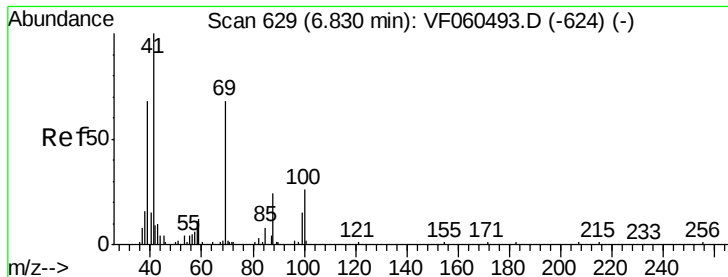


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 314.817 ug/l

RT: 6.83 min Scan# 629

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

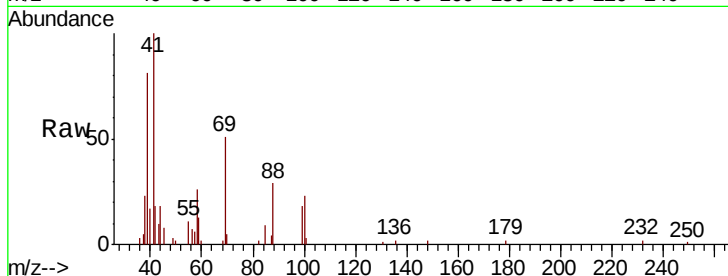
Tgt Ion: 88 Resp: 4467

Ion Ratio Lower Upper

88 100

43 34.4 40.2 60.2#

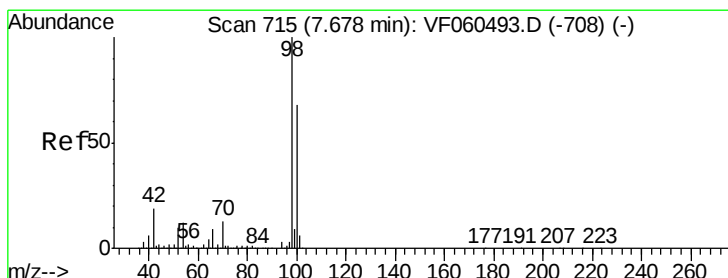
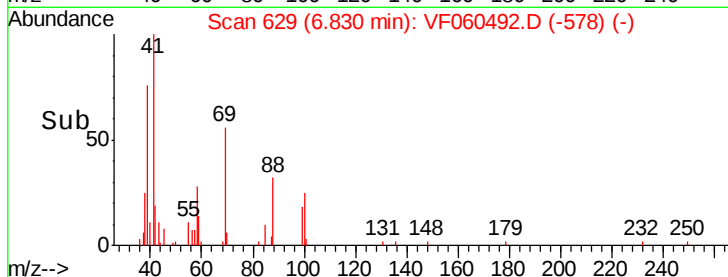
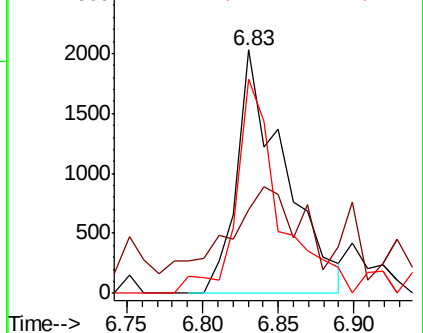
58 88.1 36.3 54.5#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 19.499 ug/l

RT: 7.68 min Scan# 715

Delta R.T. 0.00 min

Lab File: VF060492.D

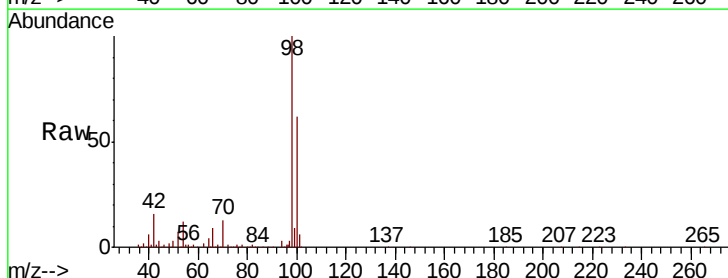
Acq: 9 Oct 2018 15:43

Tgt Ion: 98 Resp: 180192

Ion Ratio Lower Upper

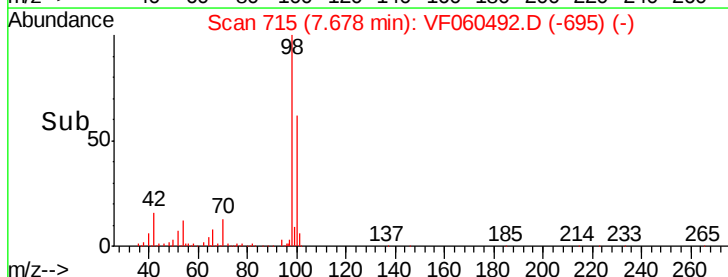
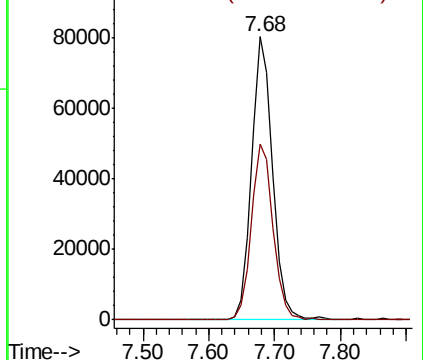
98 100

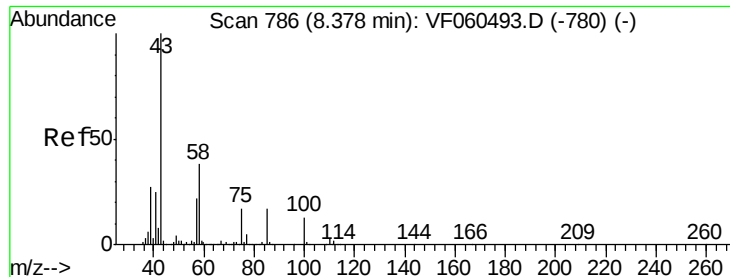
100 62.0 54.4 81.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 93.865 ug/l

RT: 8.38 min Scan# 786

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

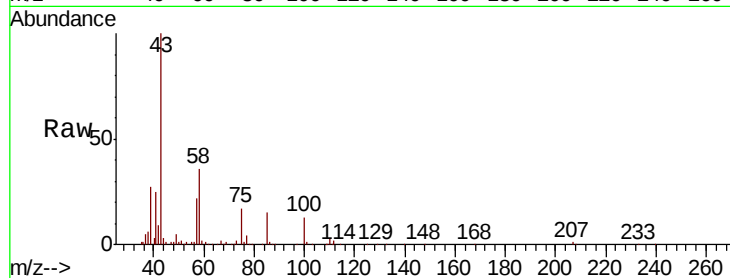
VSTDIC020

Tgt Ion: 43 Resp: 152970

Ion Ratio Lower Upper

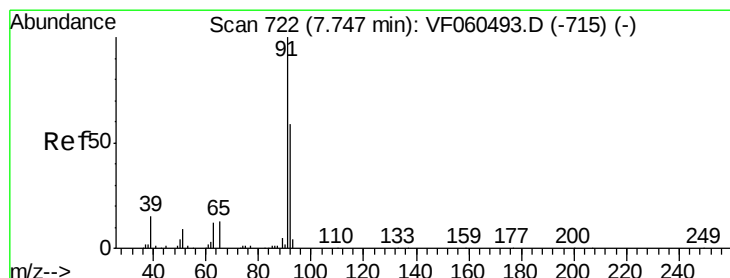
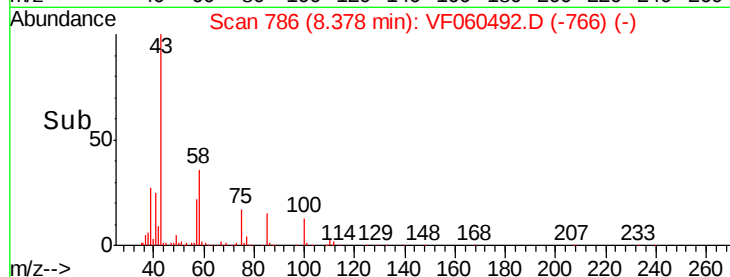
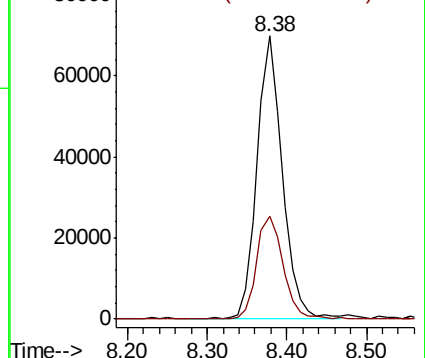
43 100

58 36.4 30.4 45.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.072 ug/l

RT: 7.76 min Scan# 723

Delta R.T. 0.01 min

Lab File: VF060492.D

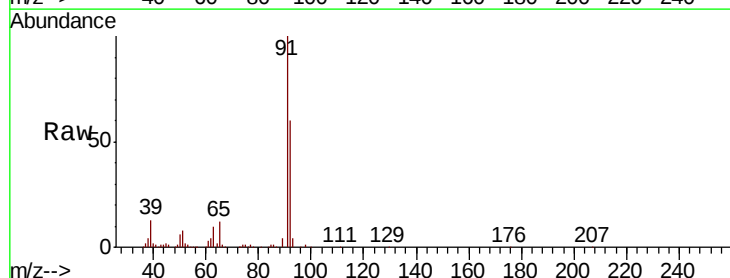
Acq: 9 Oct 2018 15:43

Tgt Ion: 92 Resp: 127619

Ion Ratio Lower Upper

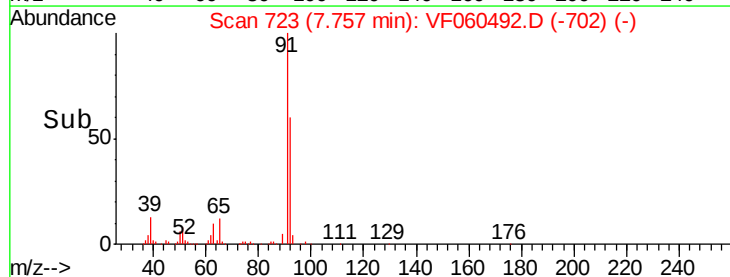
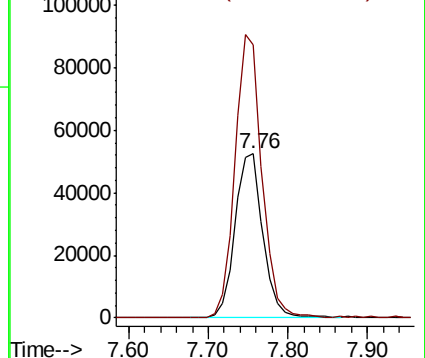
92 100

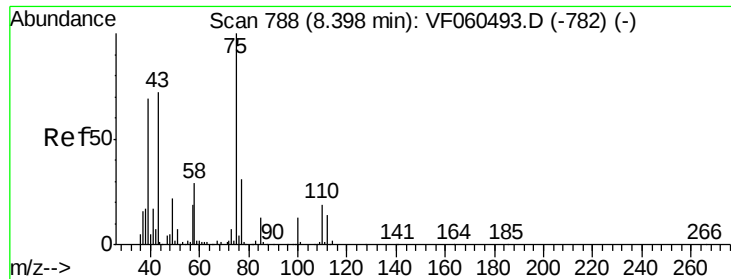
91 166.6 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 19.434 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

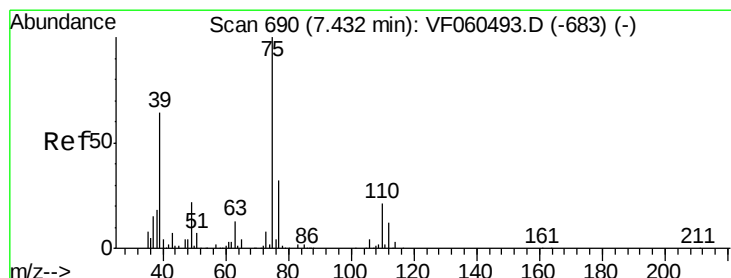
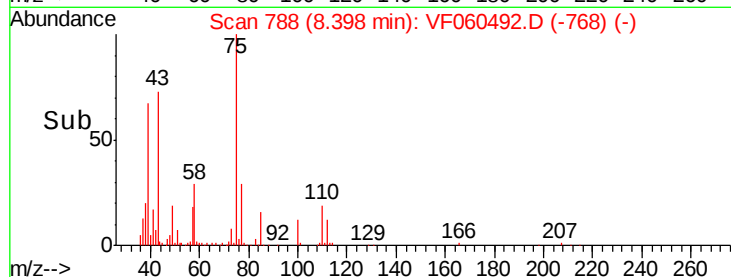
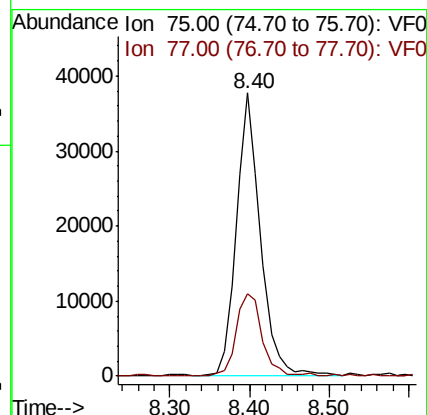
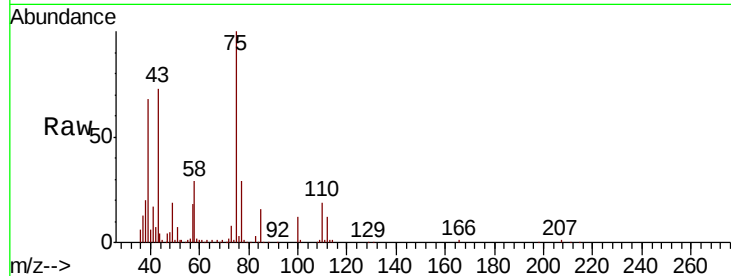
VSTDIC020

Tgt Ion: 75 Resp: 79832

Ion Ratio Lower Upper

75 100

77 29.0 25.2 37.8



#54

cis-1,3-Dichloropropene

Concen: 18.728 ug/l

RT: 7.43 min Scan# 690

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

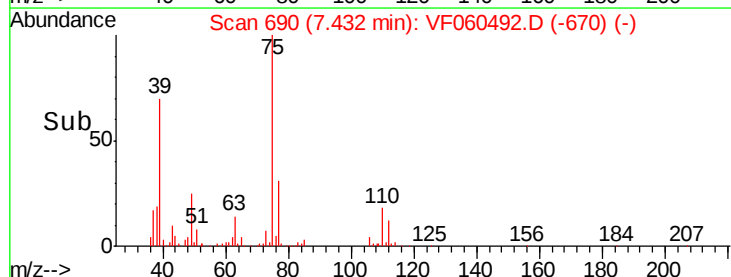
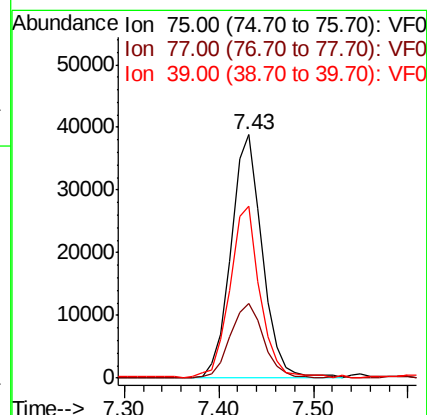
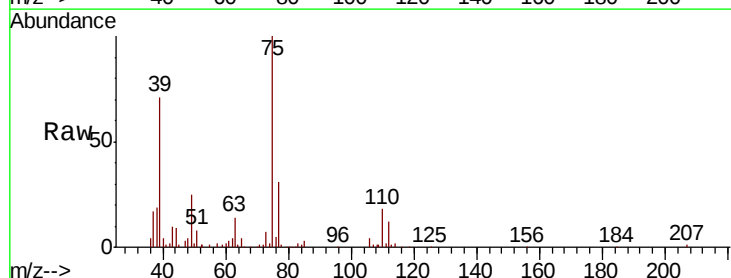
Tgt Ion: 75 Resp: 89053

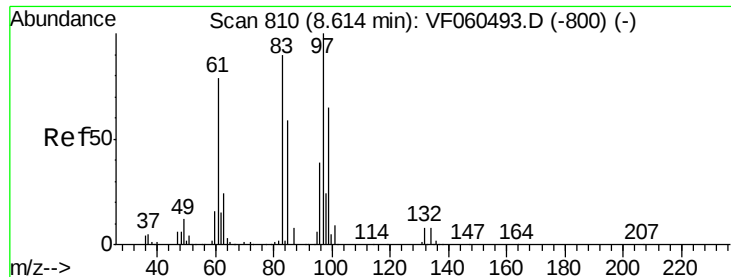
Ion Ratio Lower Upper

75 100

77 30.8 26.0 39.0

39 70.7 51.2 76.8





#55

1,1,2-Trichloroethane

Concen: 17.972 ug/l

RT: 8.61 min Scan# 810

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 38094

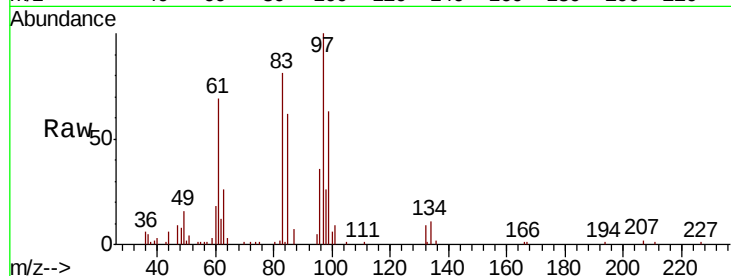
Ion Ratio Lower Upper

97 100

83 81.4 71.9 107.9

85 61.6 47.8 71.8

99 62.6 52.0 78.0



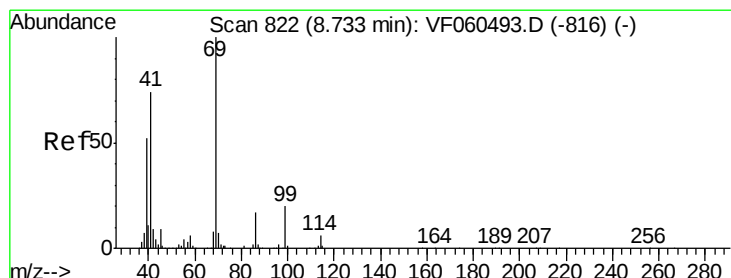
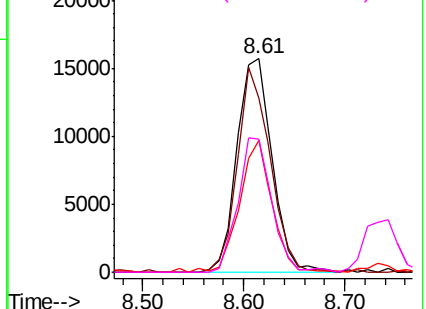
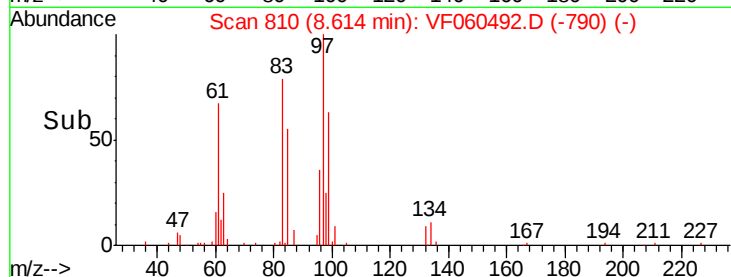
Abundance

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: 17.676 ug/l

RT: 8.73 min Scan# 822

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

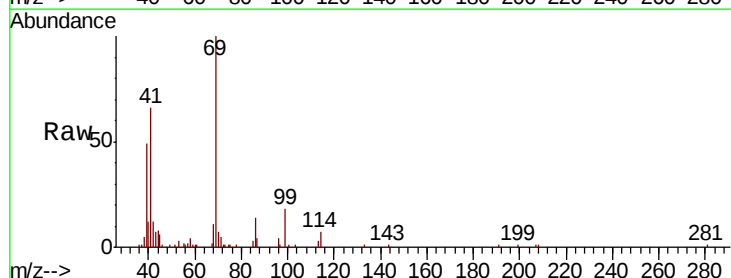
Tgt Ion: 69 Resp: 42415

Ion Ratio Lower Upper

69 100

41 65.6 59.3 88.9

39 49.2 41.8 62.6

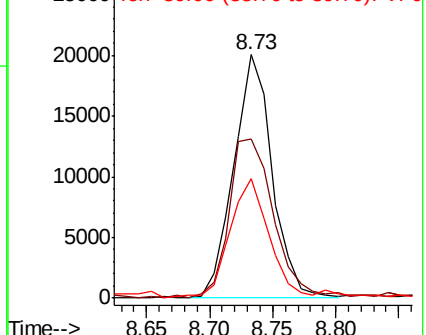
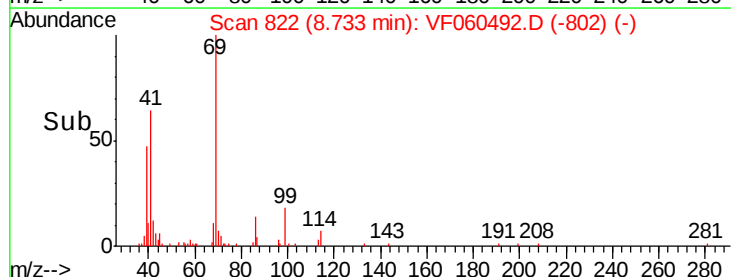


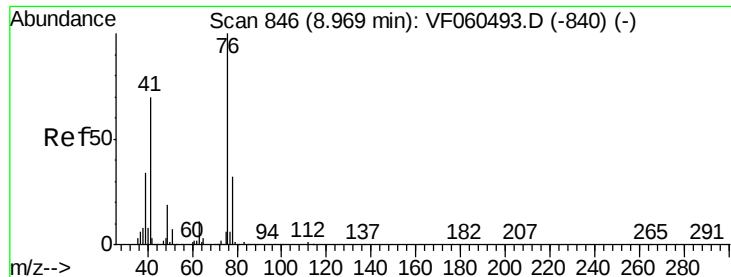
Abundance

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: 18.741 ug/l

RT: 8.97 min Scan# 846

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

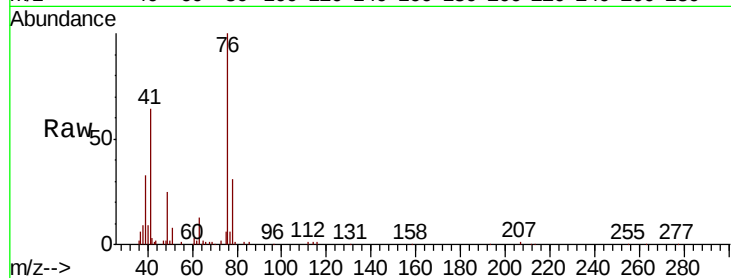
VSTDIC020

Tgt Ion: 76 Resp: 67013

Ion Ratio Lower Upper

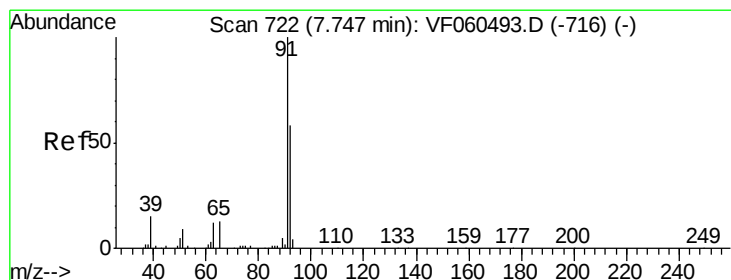
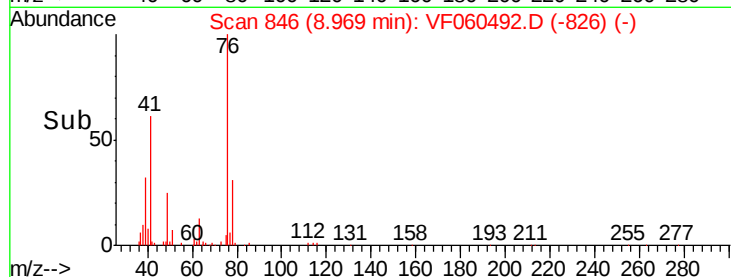
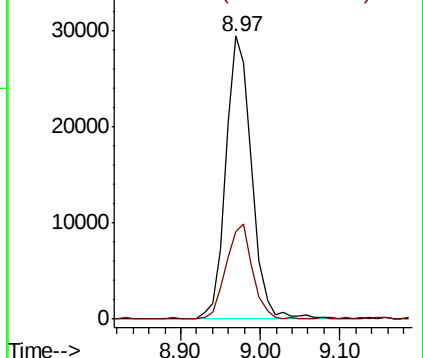
76 100

78 30.8 25.3 37.9



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 92.224 ug/l

RT: 7.76 min Scan# 723

Delta R.T. 0.01 min

Lab File: VF060492.D

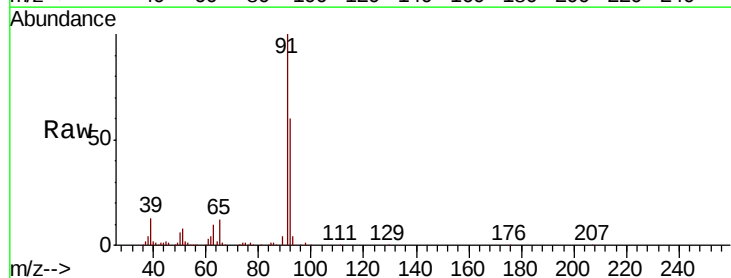
Acq: 9 Oct 2018 15:43

Tgt Ion: 63 Resp: 22758

Ion Ratio Lower Upper

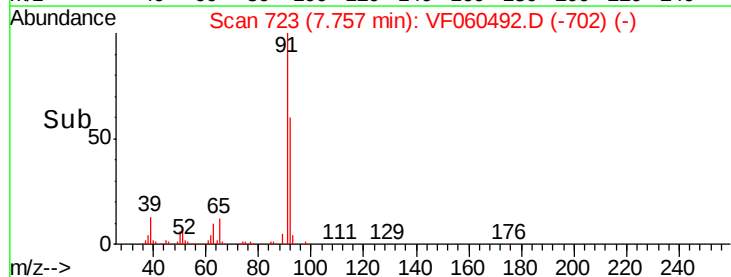
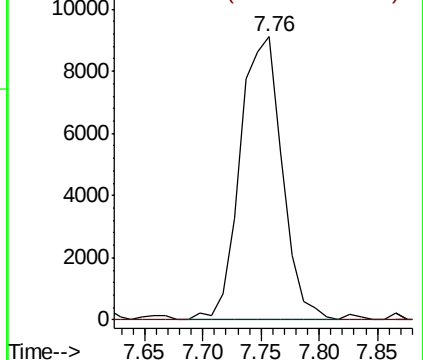
63 100

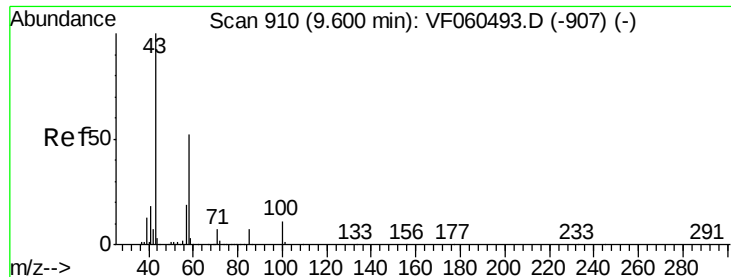
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

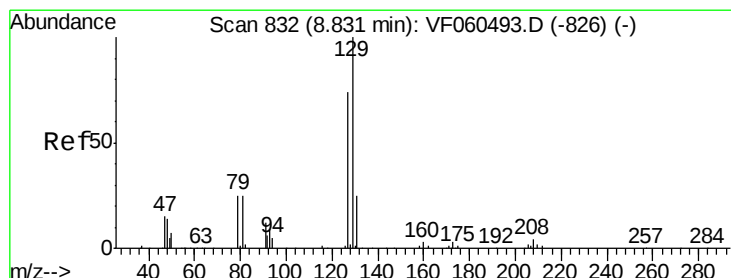
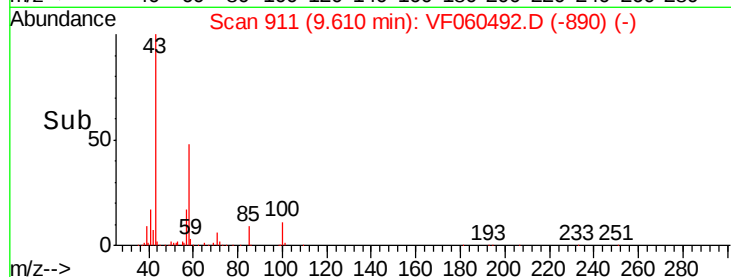
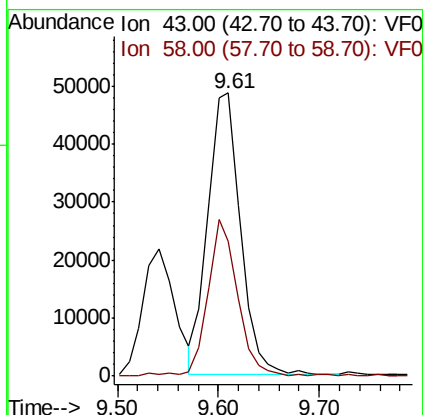
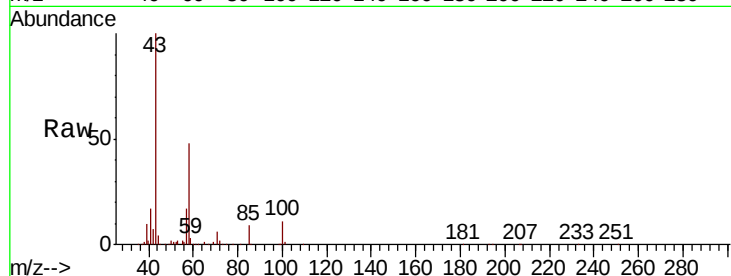




#59
2-Hexanone
Concen: 92.224 ug/l
RT: 9.61 min Scan# 911
Delta R.T. 0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

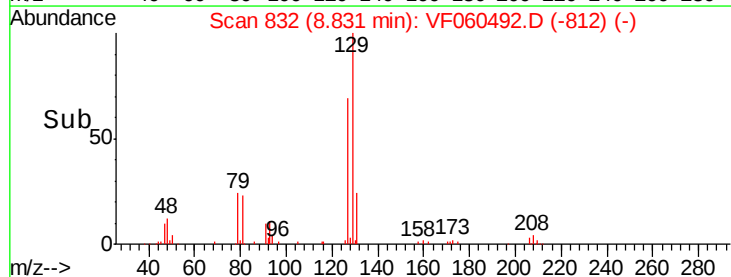
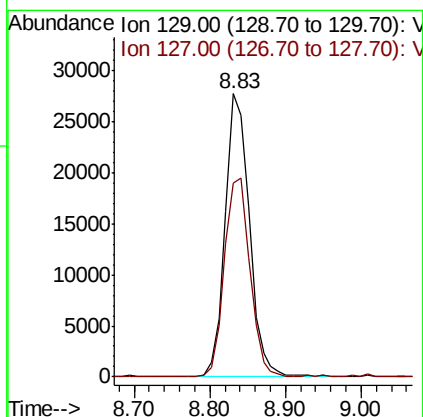
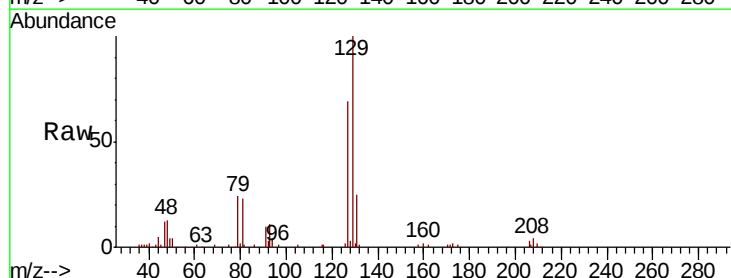
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

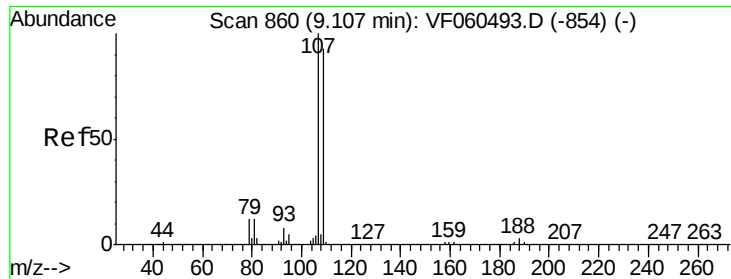
Tgt Ion: 43 Resp: 109996
Ion Ratio Lower Upper
43 100
58 47.7 24.2 72.6



#60
Dibromochloromethane
Concen: 19.366 ug/l
RT: 8.83 min Scan# 832
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion: 129 Resp: 61611
Ion Ratio Lower Upper
129 100
127 71.5 37.0 110.9





#61

1,2-Dibromoethane

Concen: 18.738 ug/l

RT: 9.11 min Scan# 860

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

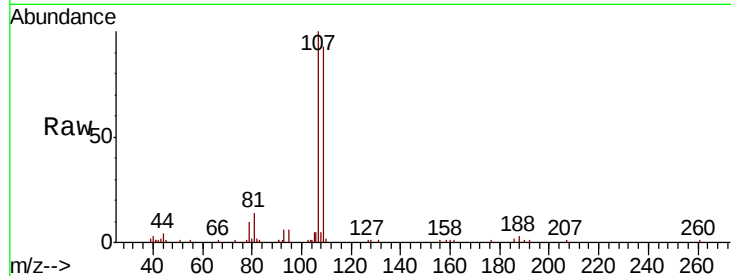
VSTDIC020

Tgt Ion: 107 Resp: 43453

Ion Ratio Lower Upper

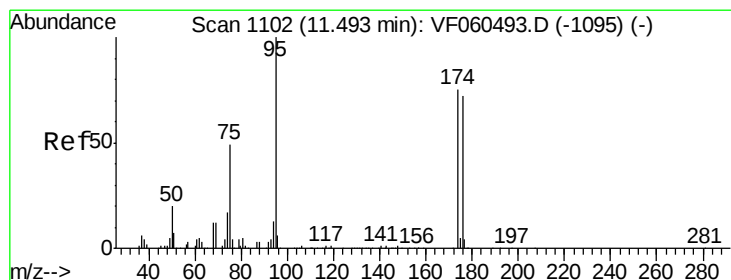
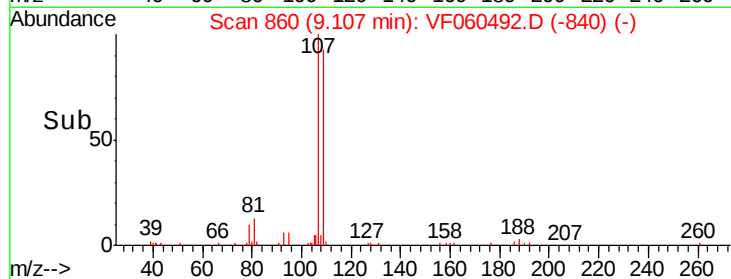
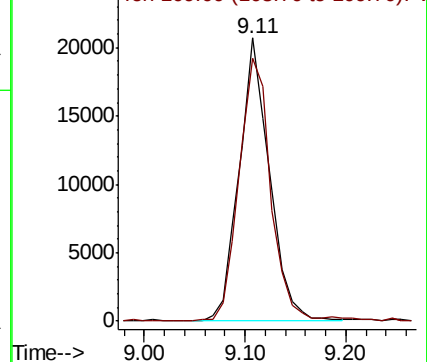
107 100

109 92.9 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 18.781 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

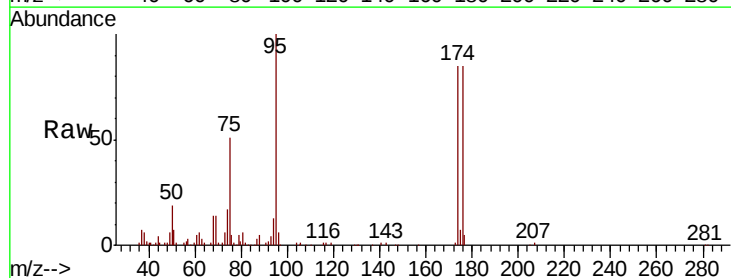
Tgt Ion: 95 Resp: 79454

Ion Ratio Lower Upper

95 100

174 85.0 0.0 150.4

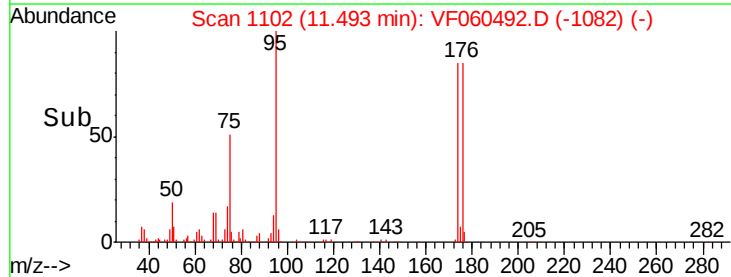
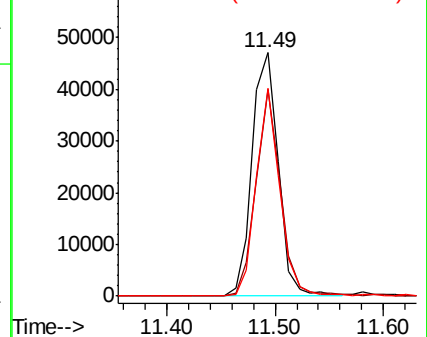
176 85.3 0.0 144.6

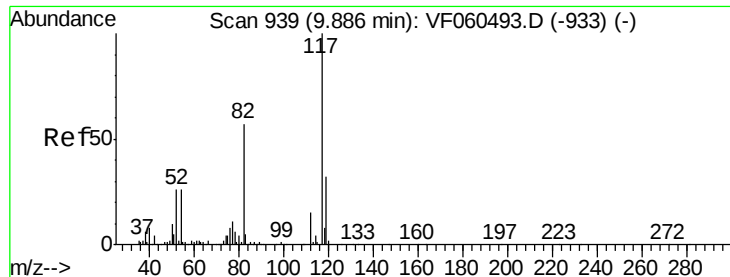


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

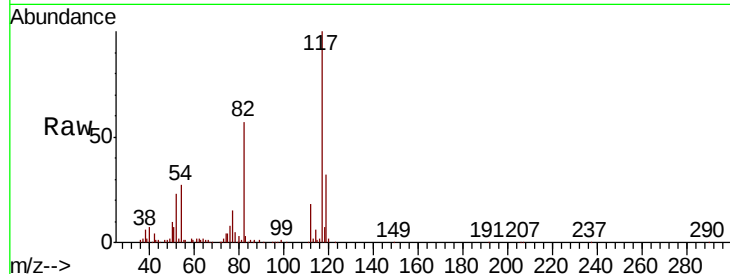
Tgt Ion:117 Resp: 352786

Ion Ratio Lower Upper

117 100

82 57.4 45.6 68.4

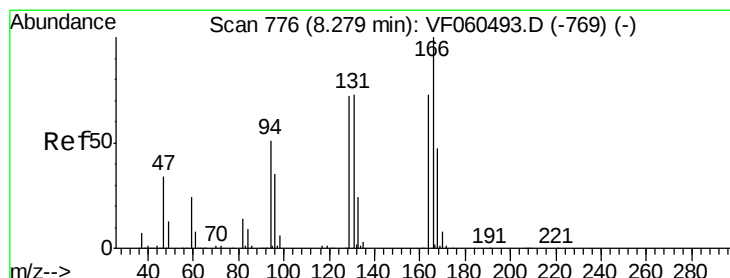
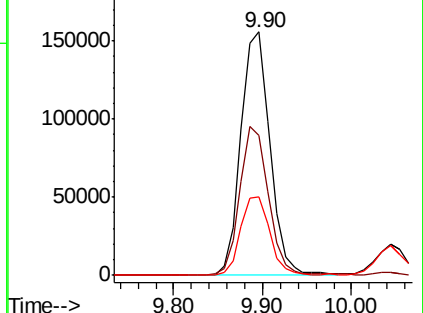
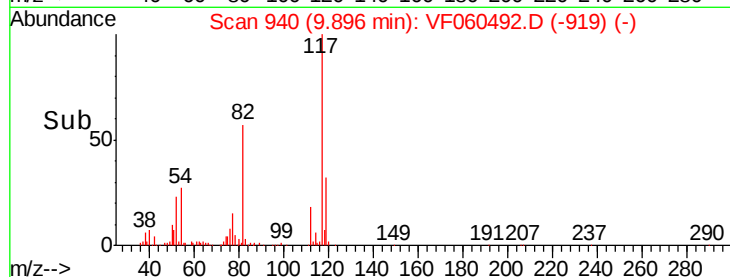
119 32.2 25.3 37.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 20.593 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion:164 Resp: 58331

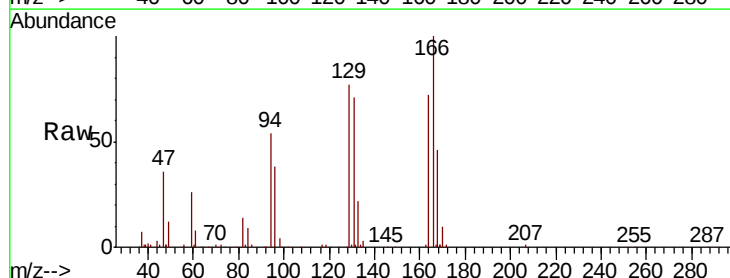
Ion Ratio Lower Upper

164 100

166 139.3 109.4 164.0

129 107.1 78.9 118.3

131 98.8 79.5 119.3

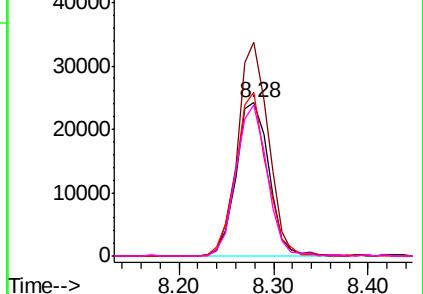
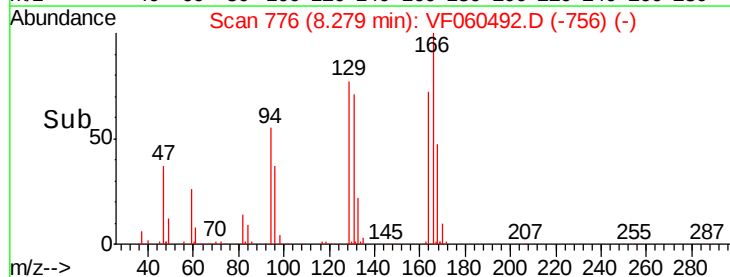


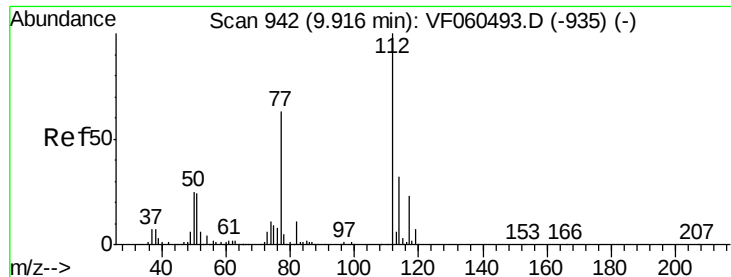
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

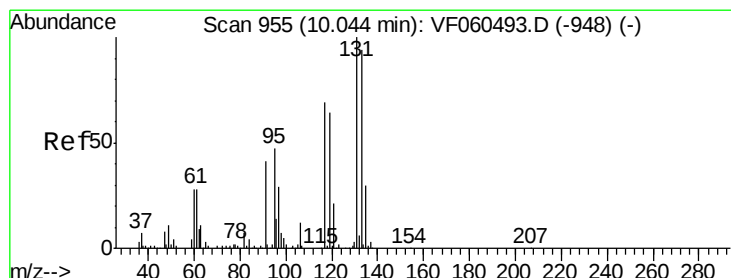
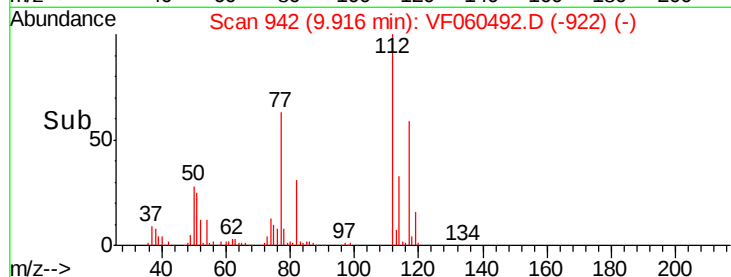
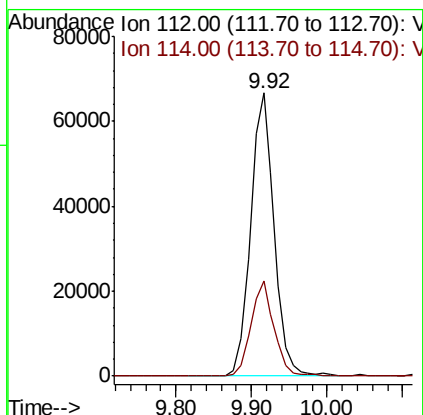
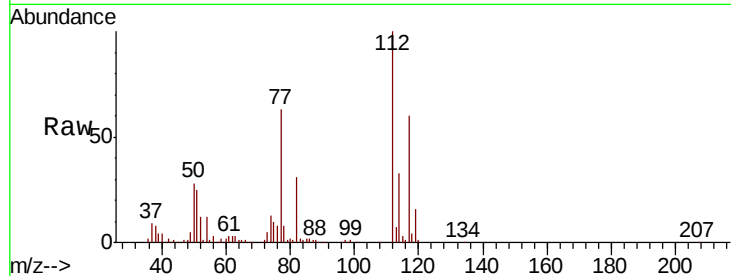




#65
Chlorobenzene
Concen: 19.965 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

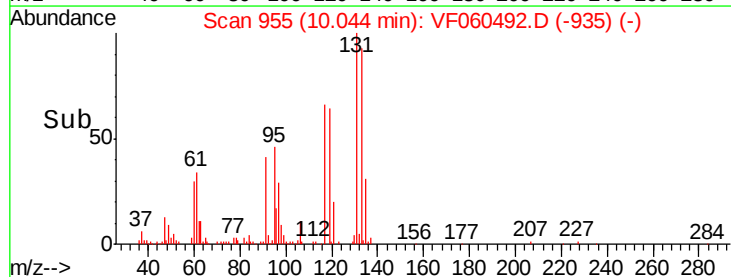
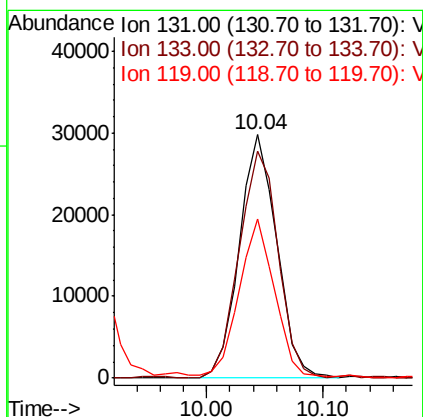
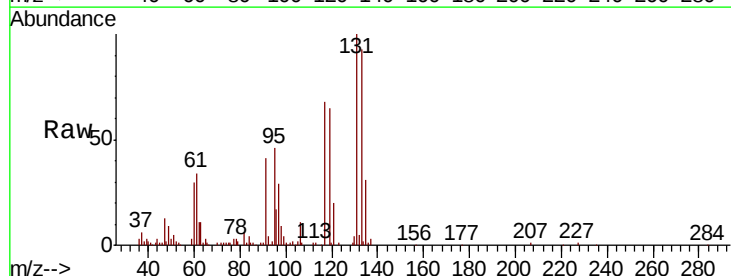
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

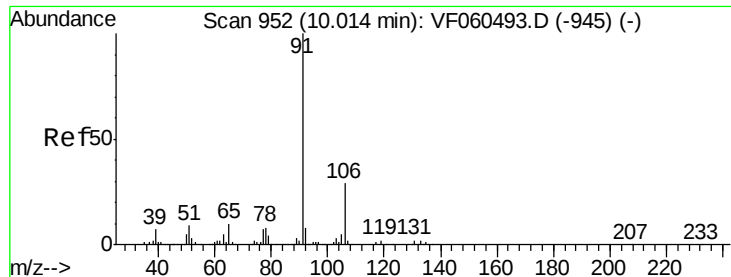
Tgt Ion:112 Resp: 144326
Ion Ratio Lower Upper
112 100
114 33.5 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 20.947 ug/l
RT: 10.04 min Scan# 955
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion:131 Resp: 66282
Ion Ratio Lower Upper
131 100
133 93.3 47.1 141.4
119 65.2 32.0 96.2





#67

Ethyl Benzene

Concen: 20.286 ug/l

RT: 10.01 min Scan# 952

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

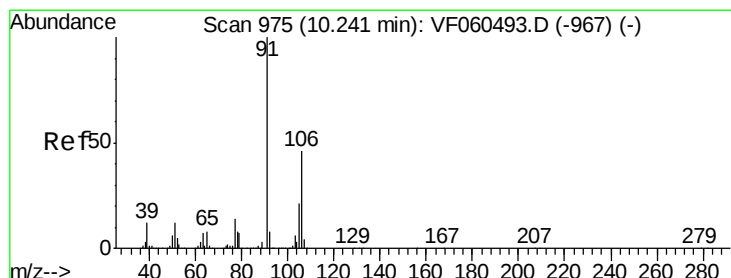
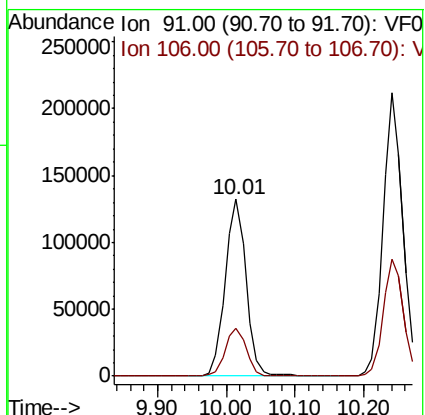
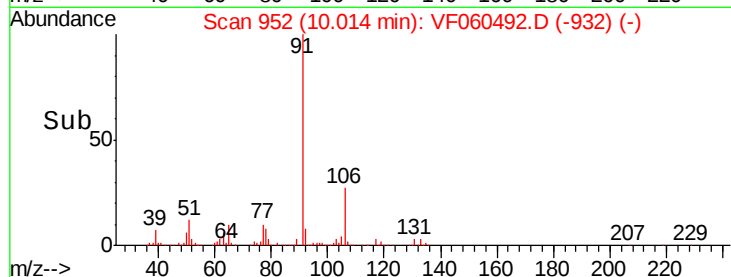
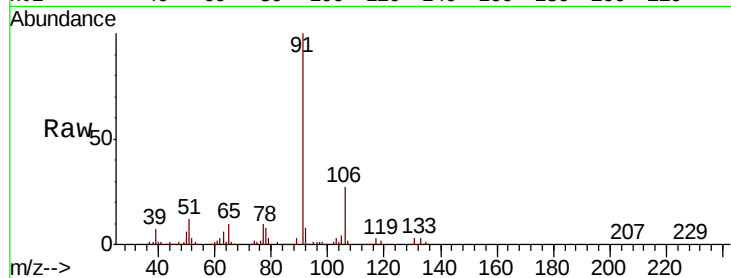
VSTDIC020

Tgt Ion: 91 Resp: 279472

Ion Ratio Lower Upper

91 100

106 26.7 23.3 34.9



#68

m/p-Xylenes

Concen: 38.379 ug/l

RT: 10.24 min Scan# 975

Delta R.T. 0.00 min

Lab File: VF060492.D

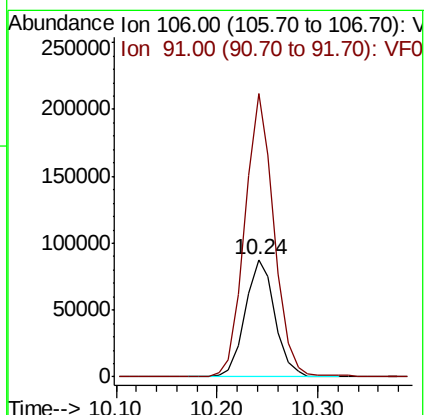
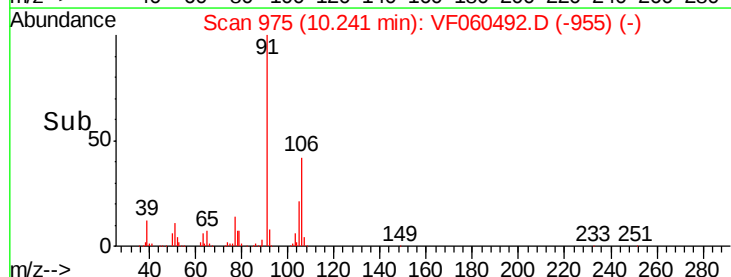
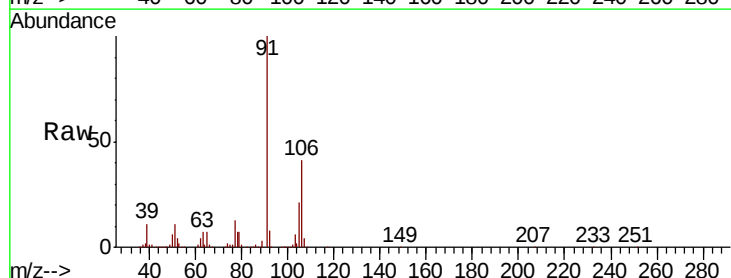
Acq: 9 Oct 2018 15:43

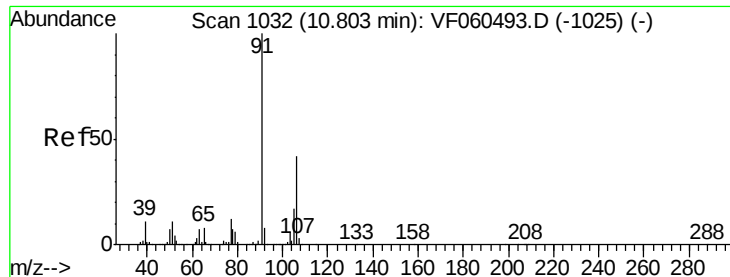
Tgt Ion: 106 Resp: 180871

Ion Ratio Lower Upper

106 100

91 241.9 174.6 262.0

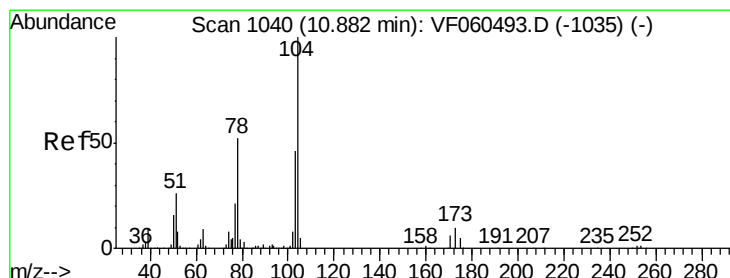
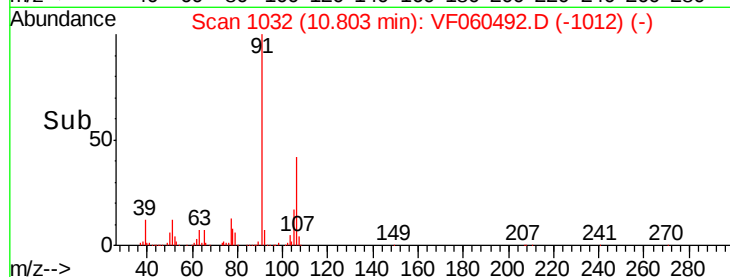
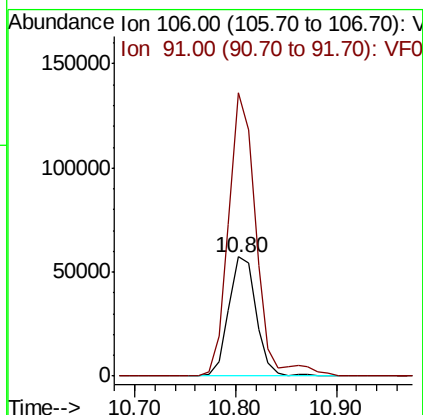
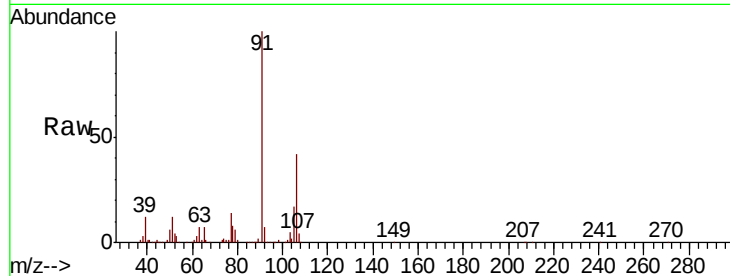




#69
o-Xylene
Concen: 21.173 ug/l
RT: 10.80 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

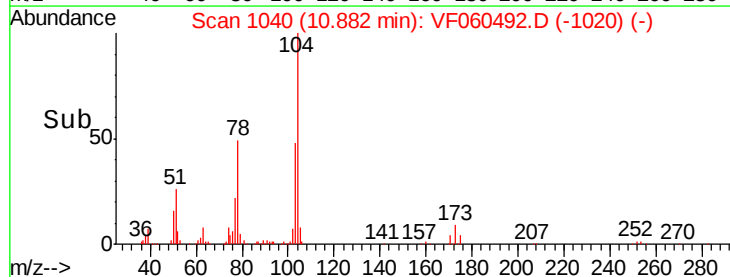
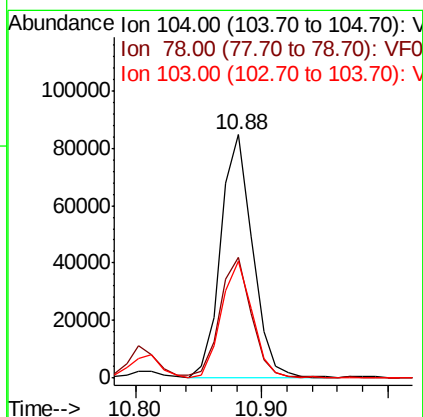
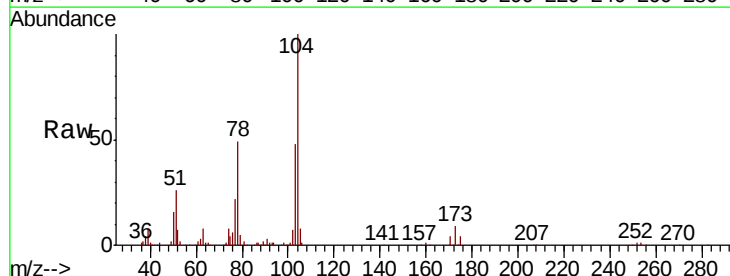
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

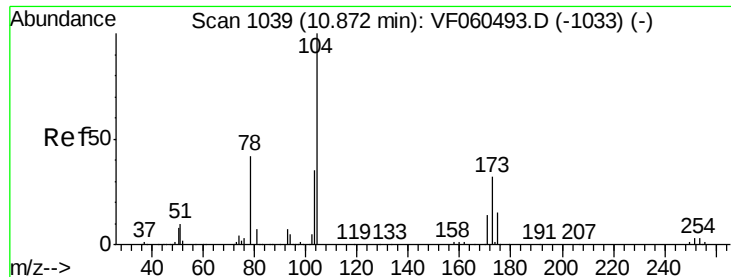
Tgt Ion:106 Resp: 108862
Ion Ratio Lower Upper
106 100
91 237.0 118.8 356.3



#70
Styrene
Concen: 20.197 ug/l
RT: 10.88 min Scan# 1040
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion:104 Resp: 147417
Ion Ratio Lower Upper
104 100
78 49.4 42.7 64.1
103 48.2 37.6 56.4





#71

Bromoform

Concen: 19.235 ug/l

RT: 10.86 min Scan# 1038

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

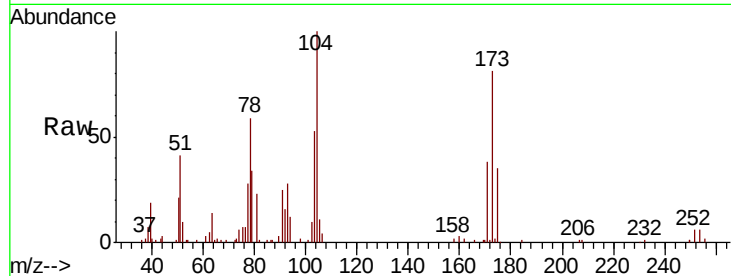
Tgt Ion:173 Resp: 32303

Ion Ratio Lower Upper

173 100

175 43.2 23.2 69.6

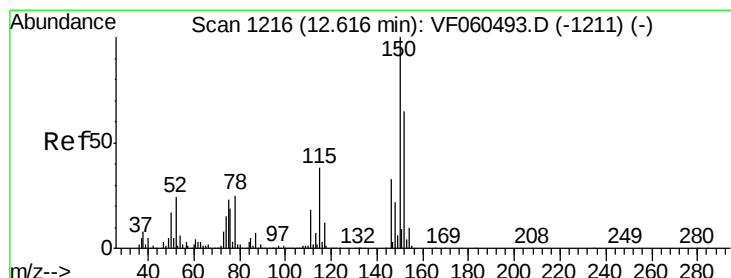
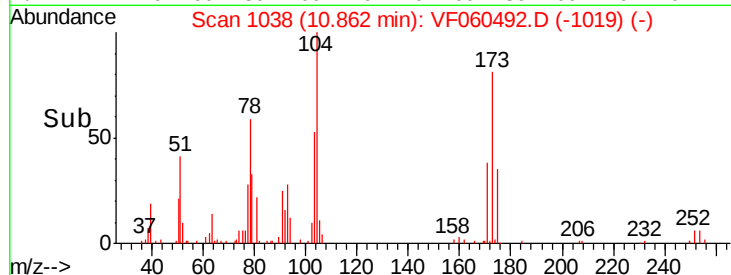
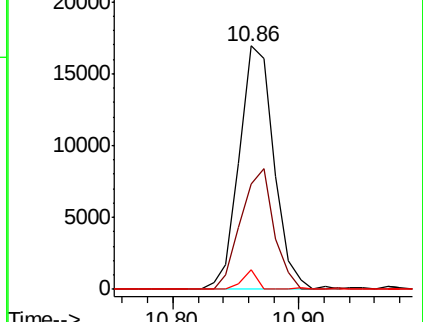
254 7.9 0.2 0.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

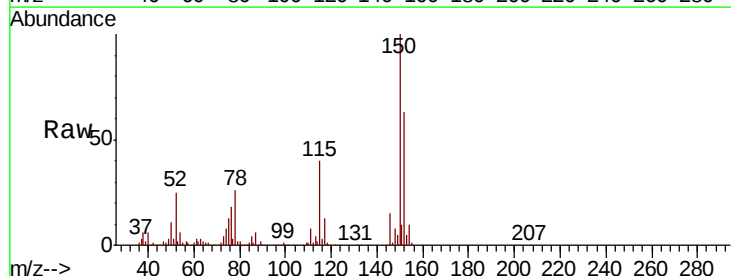
Tgt Ion:152 Resp: 195139

Ion Ratio Lower Upper

152 100

115 62.6 29.5 88.5

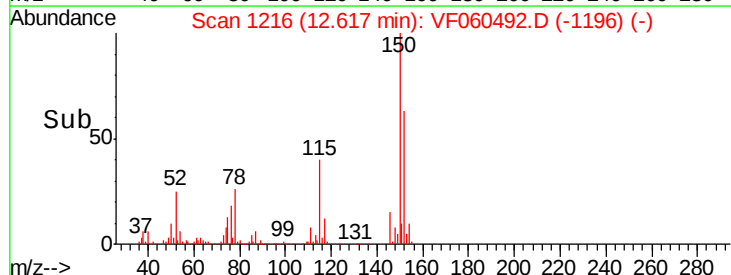
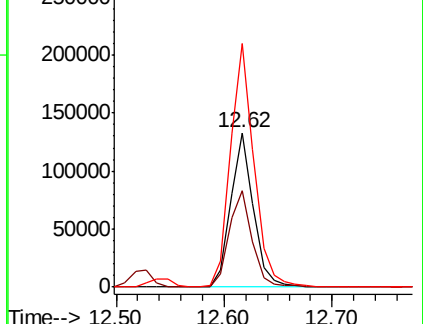
150 157.6 0.0 310.0

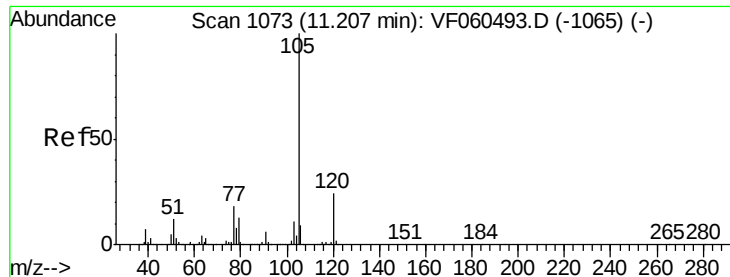


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 20.335 ug/l

RT: 11.21 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

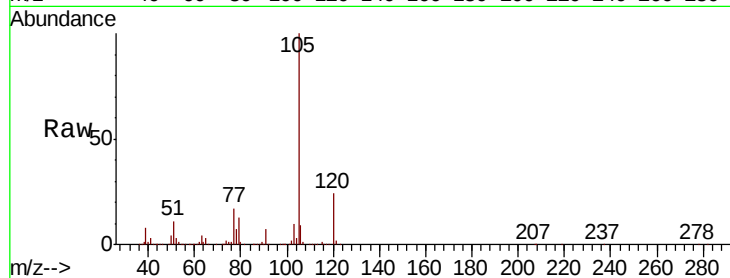
VSTDIC020

Tgt Ion: 105 Resp: 314843

Ion Ratio Lower Upper

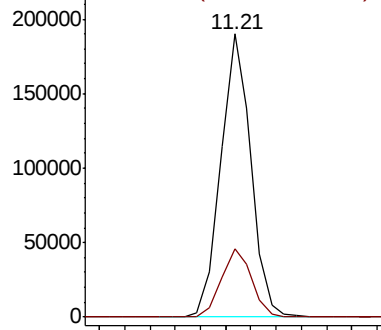
105 100

120 24.2 11.9 35.9

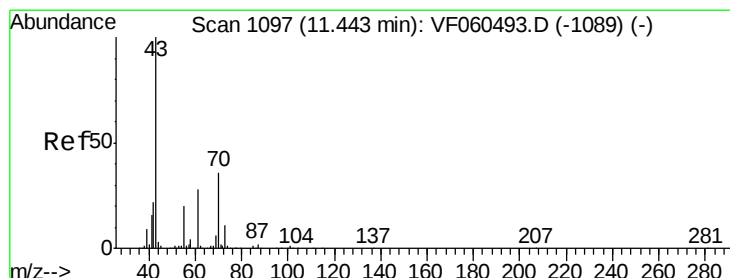
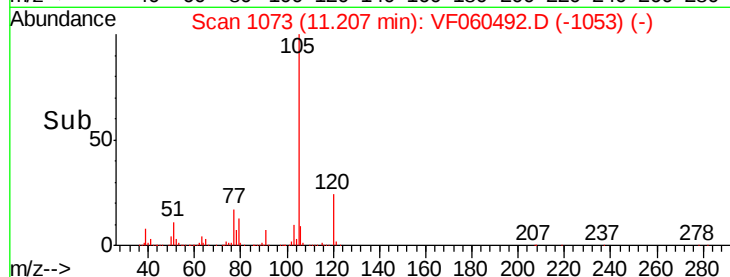


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time--> 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 18.370 ug/l

RT: 11.44 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion: 43 Resp: 64557

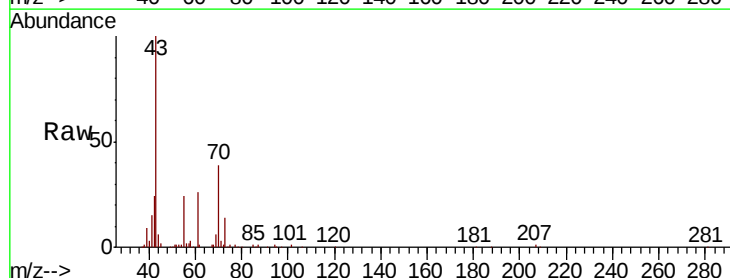
Ion Ratio Lower Upper

43 100

70 38.6 28.7 43.1

55 24.0 16.1 24.1

61 25.9 22.7 34.1

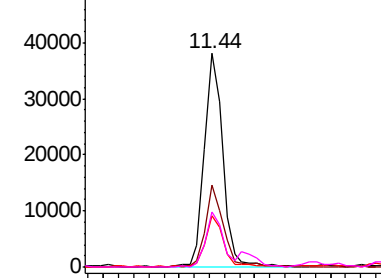


Abundance Ion 43.00 (42.70 to 43.70): VF0

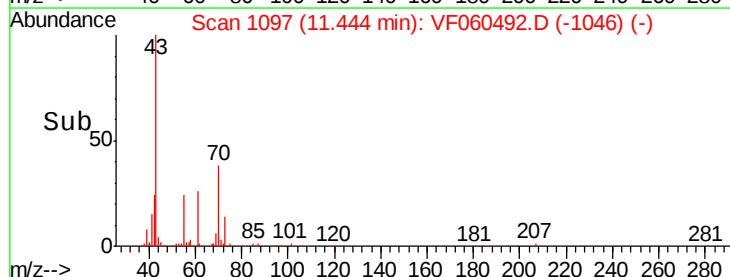
Ion 70.00 (69.70 to 70.70): VF0

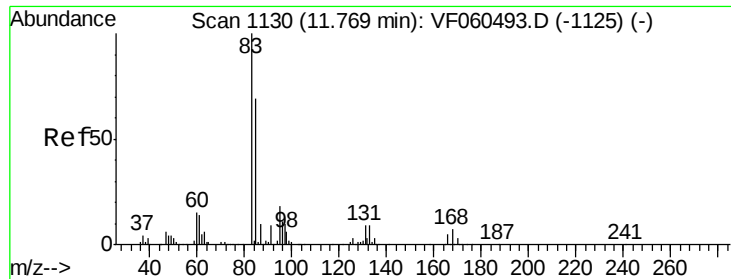
Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



Time--> 11.30 11.40 11.50 11.60





#75

1,1,2,2-Tetrachloroethane

Concen: 18.723 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

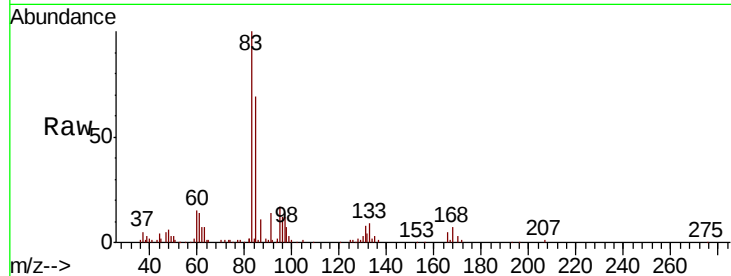
Tgt Ion: 83 Resp: 51943

Ion Ratio Lower Upper

83 100

131 8.2 4.5 13.4

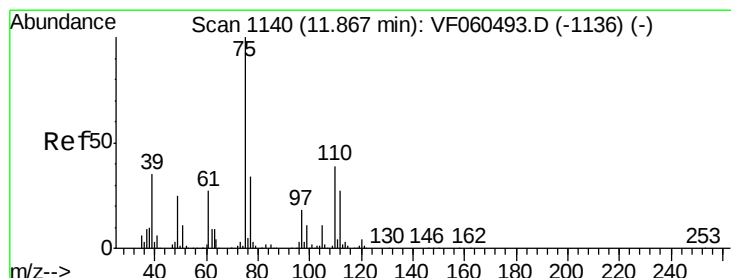
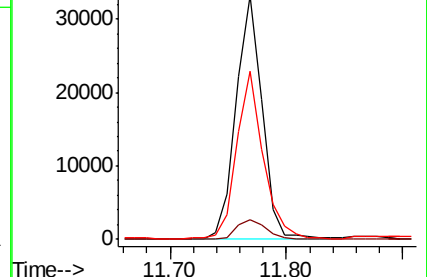
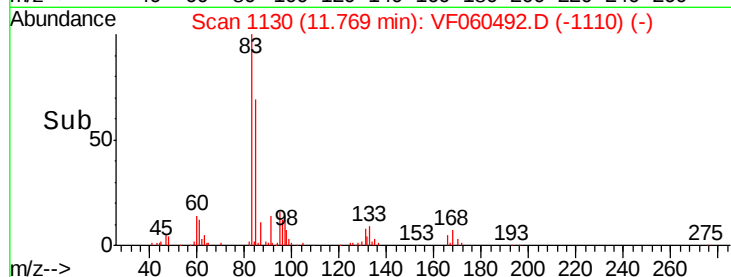
85 68.8 34.8 104.4



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.951 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060492.D

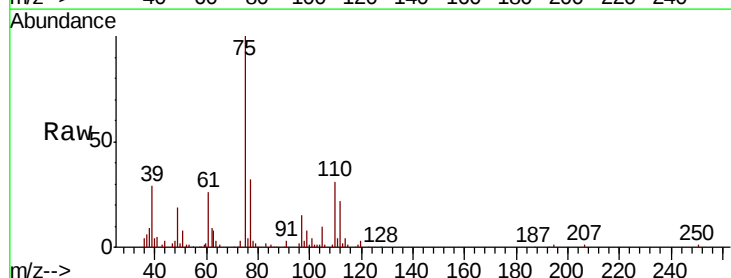
Acq: 9 Oct 2018 15:43

Tgt Ion: 75 Resp: 41136

Ion Ratio Lower Upper

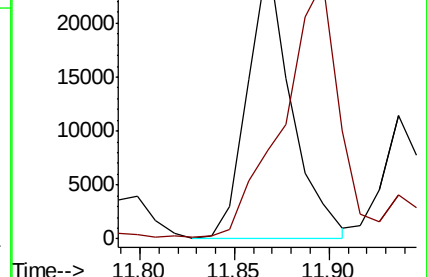
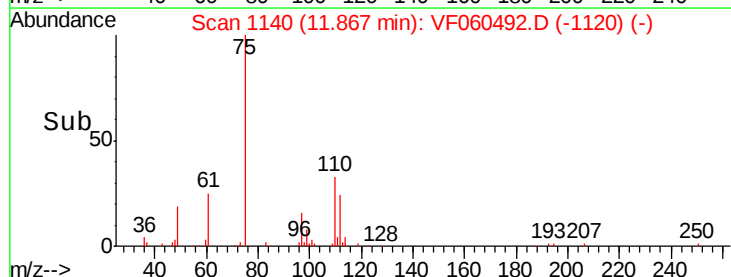
75 100

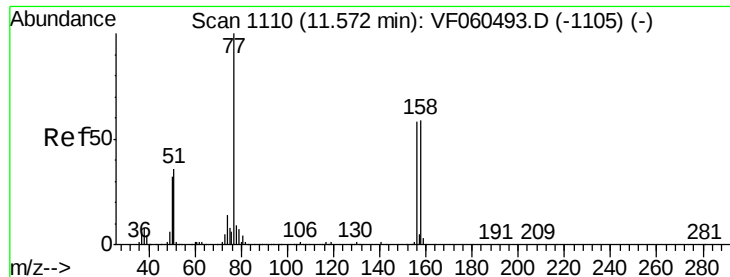
77 31.6 17.4 52.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.147 ug/l

RT: 11.57 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

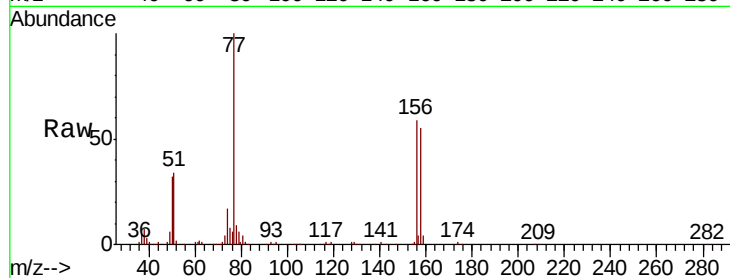
Tgt Ion:156 Resp: 69606

Ion Ratio Lower Upper

156 100

77 168.8 86.3 258.8

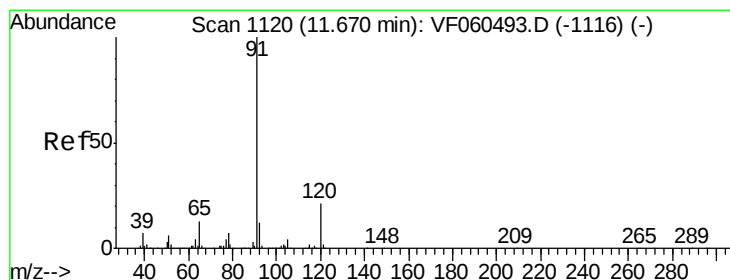
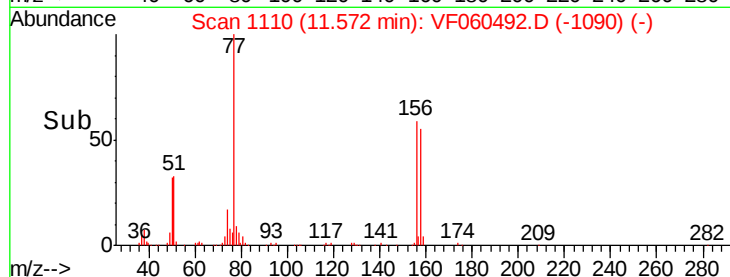
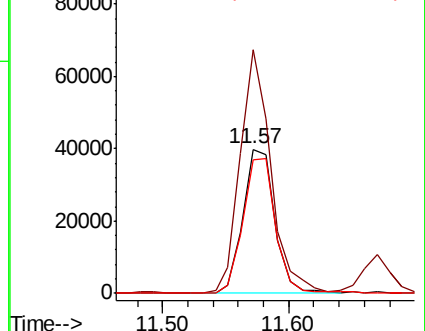
158 92.7 51.1 153.3



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: 20.193 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VF060492.D

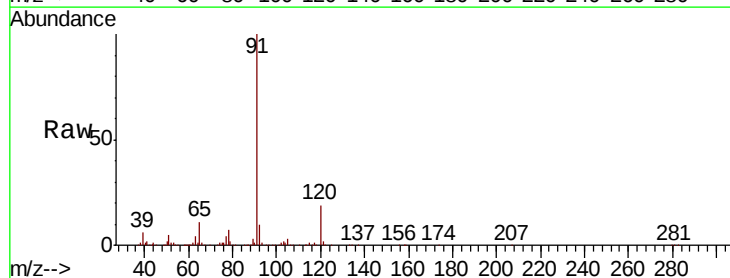
Acq: 9 Oct 2018 15:43

Tgt Ion: 91 Resp: 375458

Ion Ratio Lower Upper

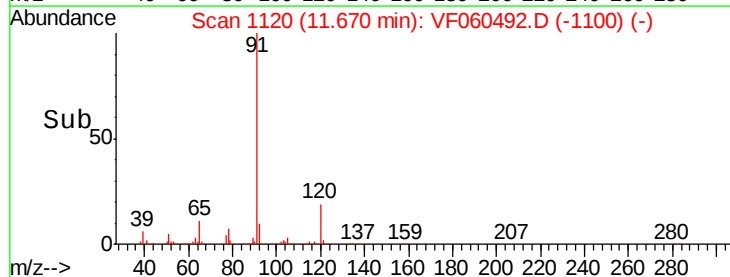
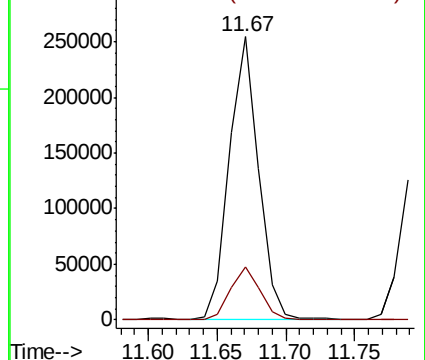
91 100

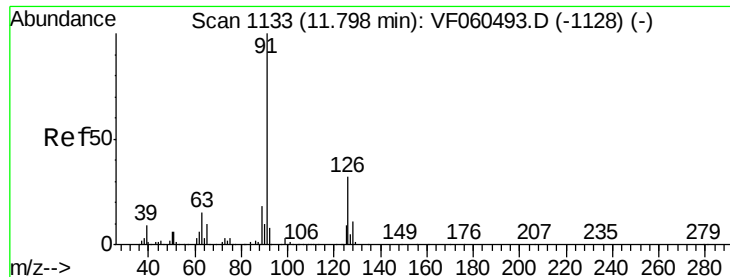
120 18.7 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.271 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

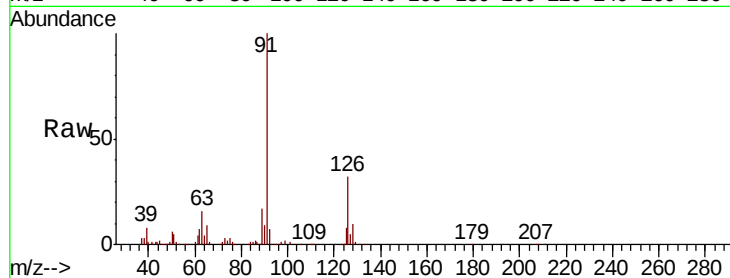
VSTDIC020

Tgt Ion: 91 Resp: 220985

Ion Ratio Lower Upper

91 100

126 31.8 16.1 48.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

150000

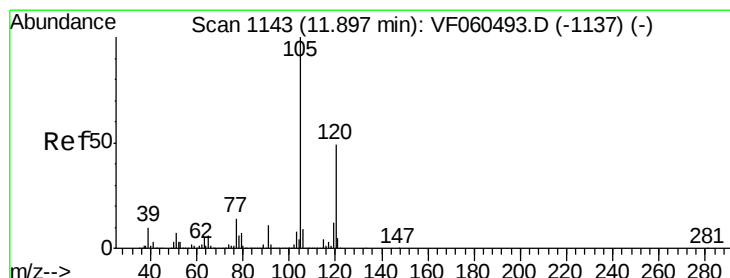
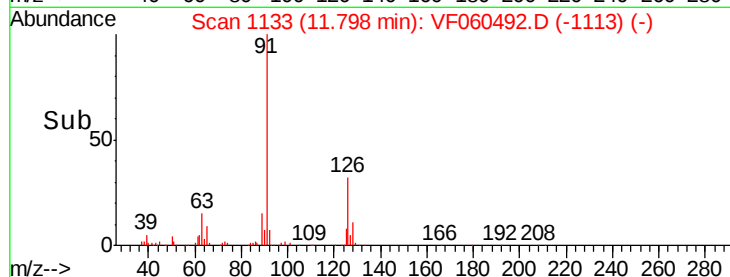
100000

50000

0

11.70 11.80

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.021 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF060492.D

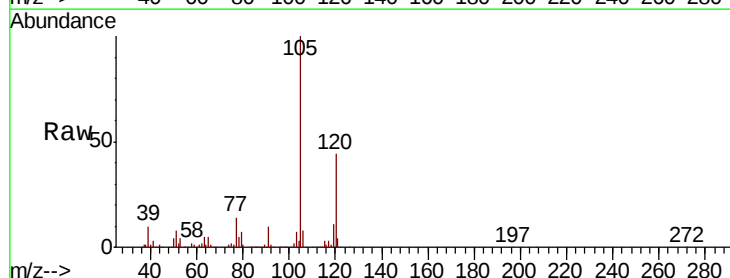
Acq: 9 Oct 2018 15:43

Tgt Ion: 105 Resp: 261620

Ion Ratio Lower Upper

105 100

120 43.8 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

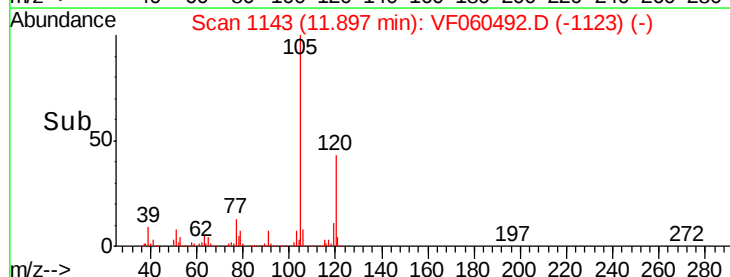
100000

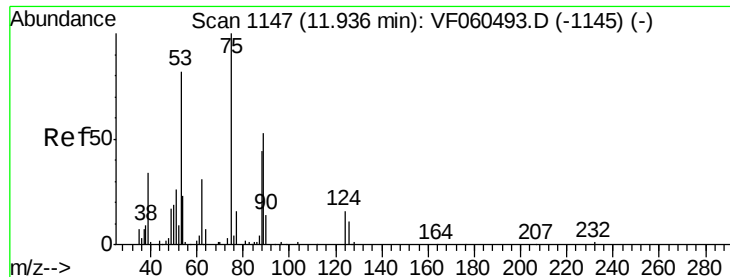
50000

0

11.80 11.90 12.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 29.028 ug/l

RT: 11.94 min Scan# 1147

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

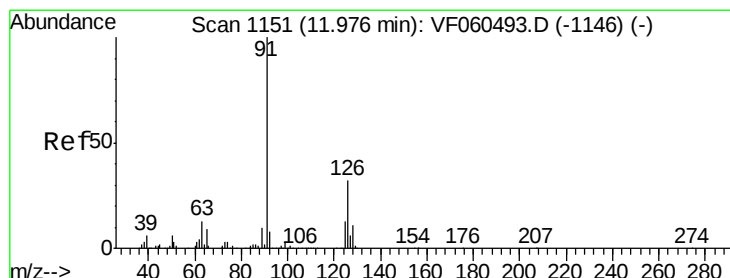
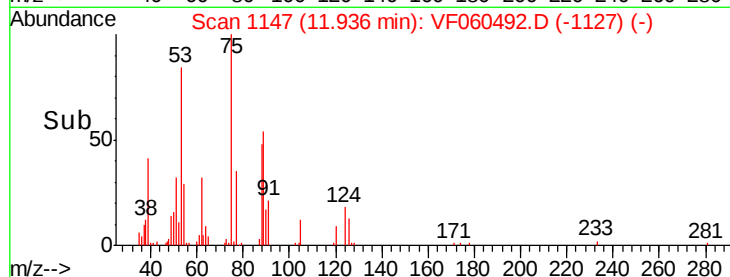
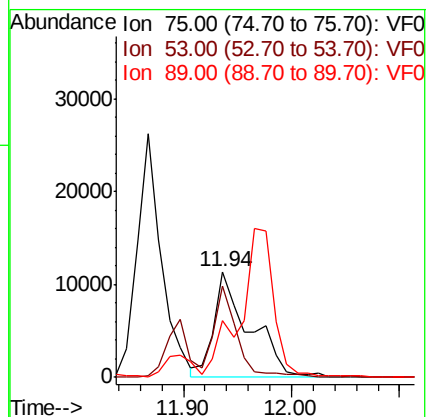
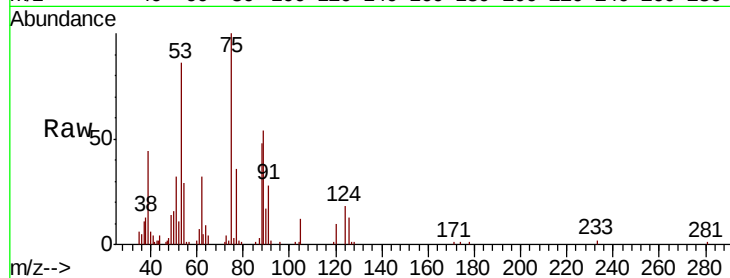
Tgt Ion: 75 Resp: 26168

Ion Ratio Lower Upper

75 100

53 85.6 71.0 106.6

89 53.7 43.1 64.7



#82

4-Chlorotoluene

Concen: 19.859 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VF060492.D

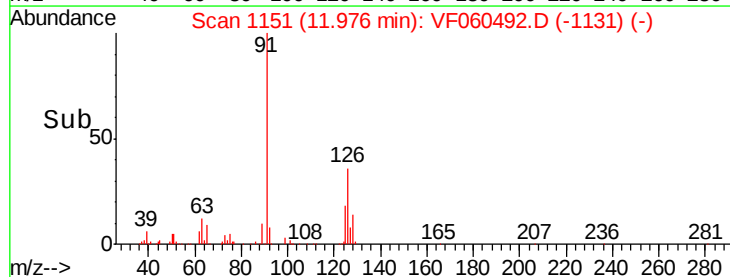
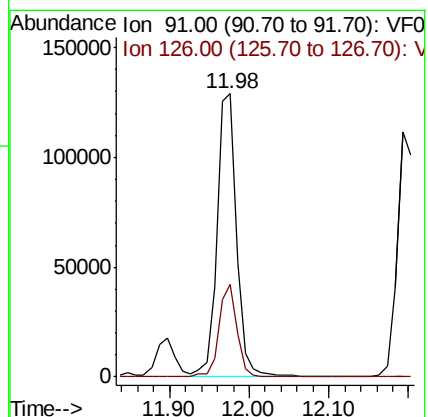
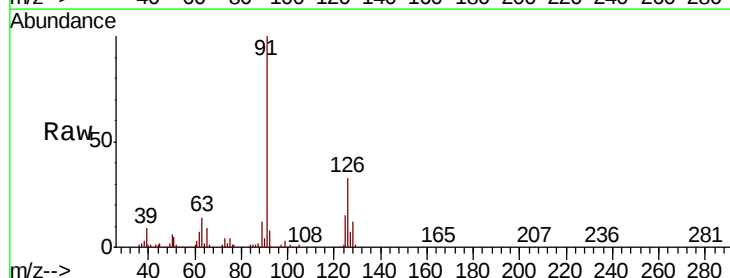
Acq: 9 Oct 2018 15:43

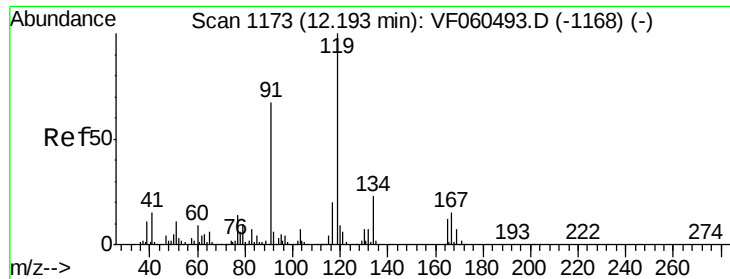
Tgt Ion: 91 Resp: 223053

Ion Ratio Lower Upper

91 100

126 32.5 16.0 47.9

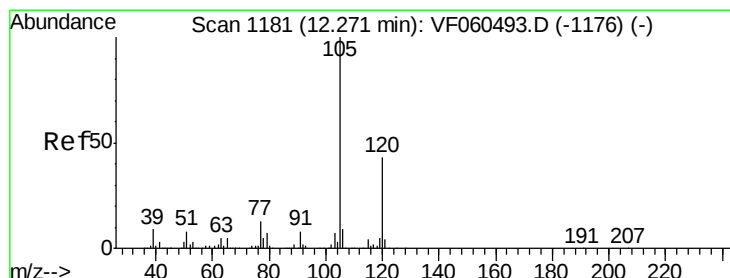
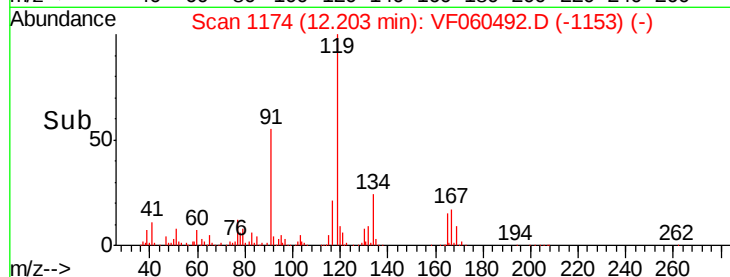
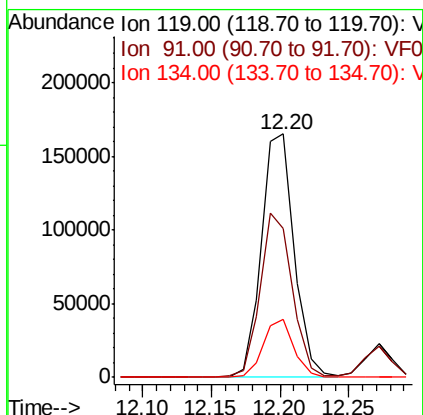
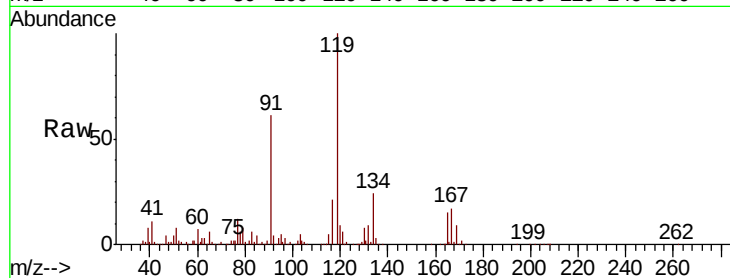




#83
tert-Butylbenzene
Concen: 21.226 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. 0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

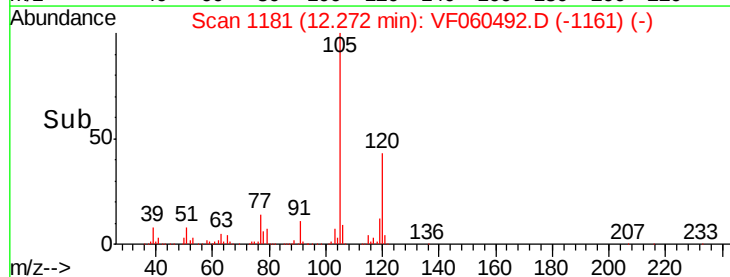
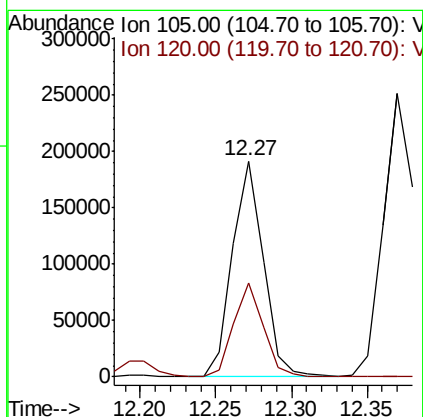
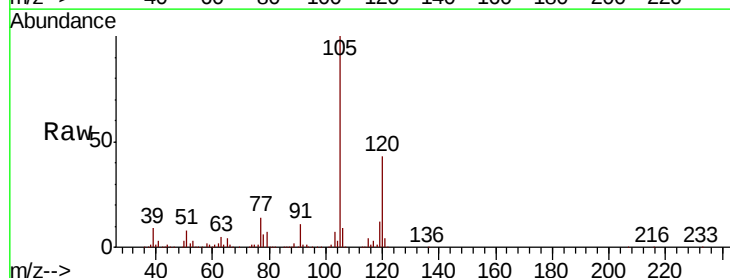
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

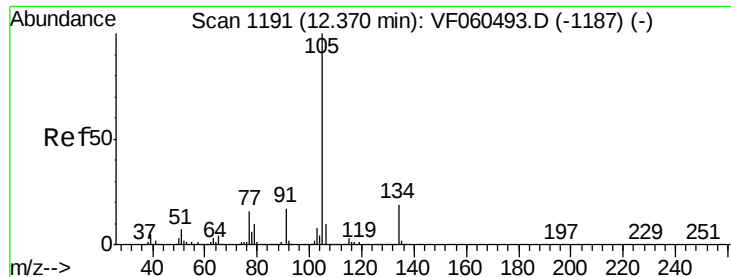
Tgt Ion:119 Resp: 273608
Ion Ratio Lower Upper
119 100
91 61.2 33.6 100.8
134 24.1 11.5 34.5



#84
1,2,4-Trimethylbenzene
Concen: 20.903 ug/l
RT: 12.27 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion:105 Resp: 272084
Ion Ratio Lower Upper
105 100
120 43.4 21.7 65.1

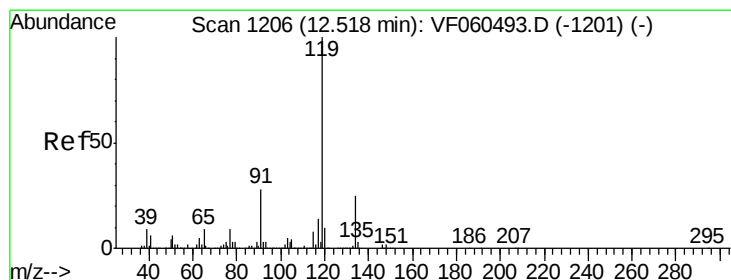
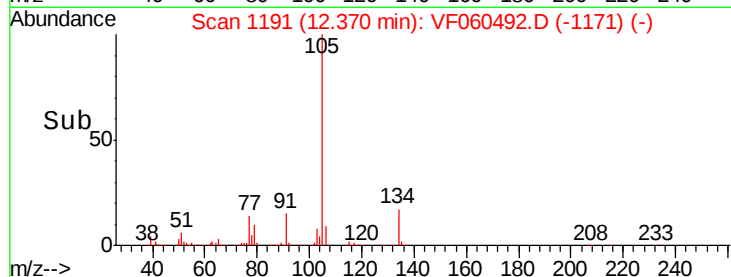
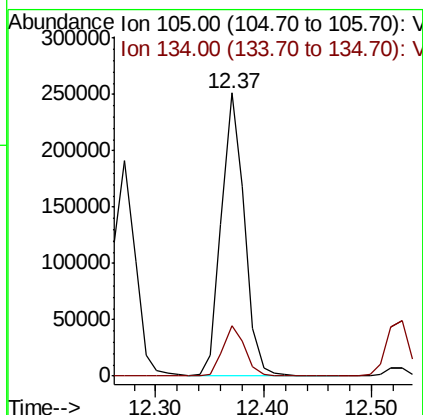
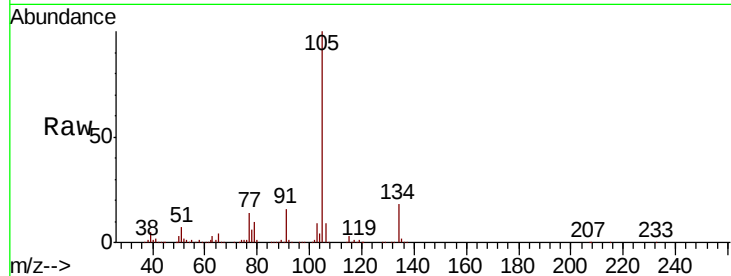




#85
 sec-Butylbenzene
 Concen: 20.880 ug/l
 RT: 12.37 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

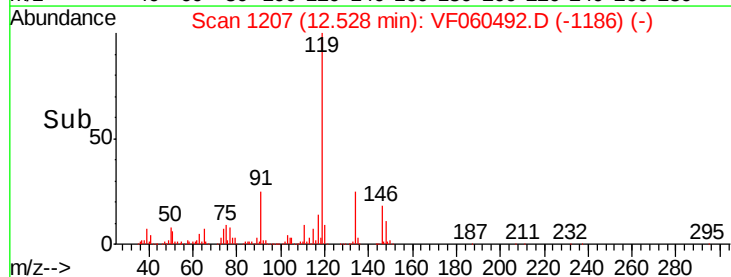
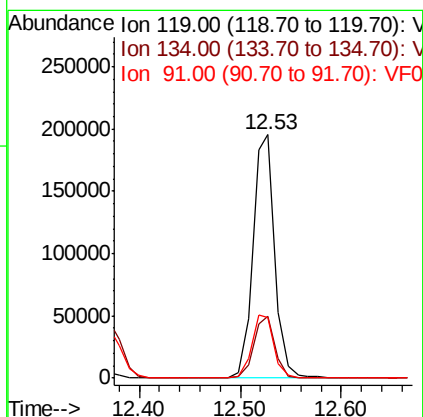
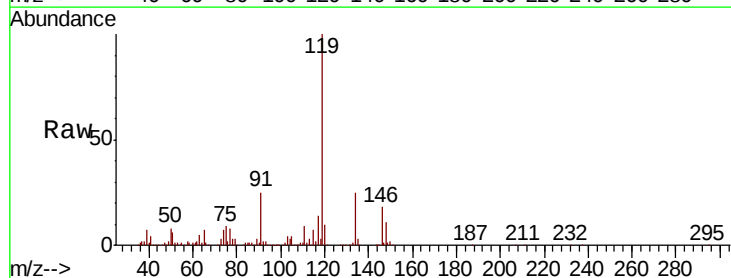
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

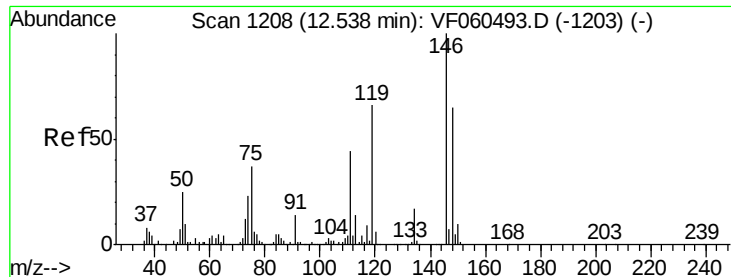
Tgt Ion:105 Resp: 372340
 Ion Ratio Lower Upper
 105 100
 134 17.8 9.3 27.9



#86
 p-Isopropyltoluene
 Concen: 20.296 ug/l
 RT: 12.53 min Scan# 1207
 Delta R.T. 0.01 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion:119 Resp: 295748
 Ion Ratio Lower Upper
 119 100
 134 25.4 12.6 37.6
 91 24.7 14.1 42.4

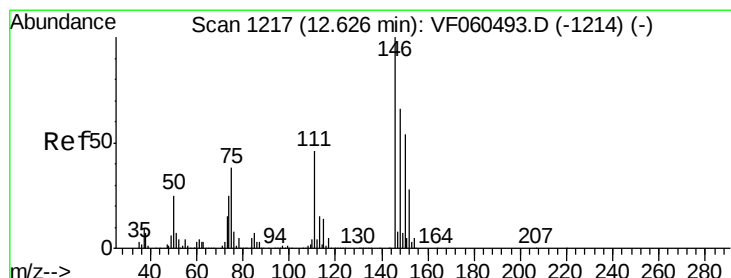
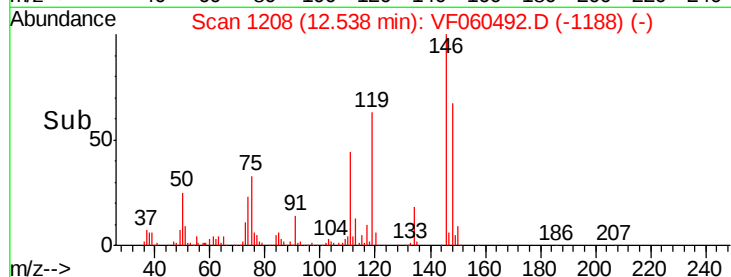
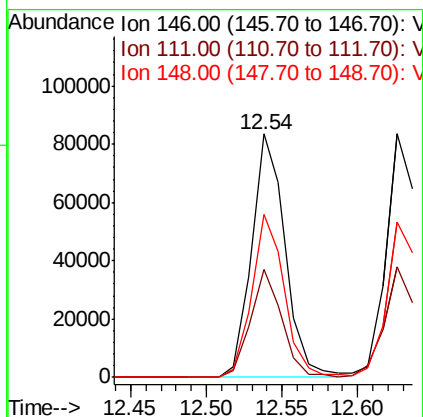
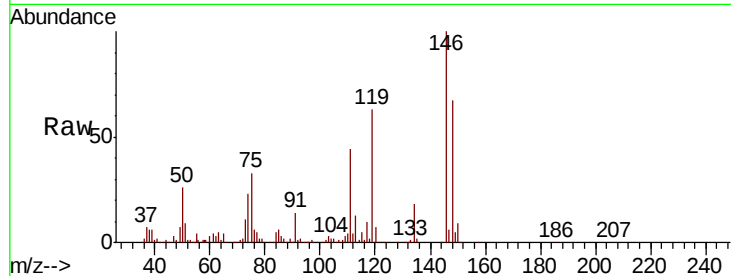




#87
 1,3-Dichlorobenzene
 Concen: 19.806 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

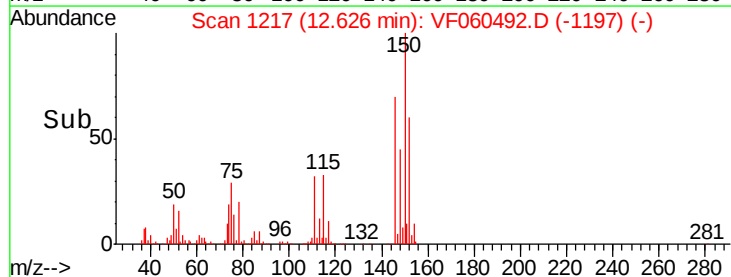
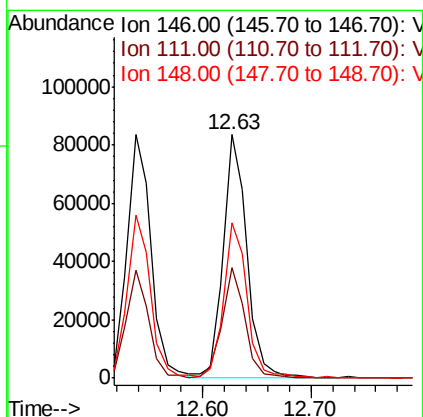
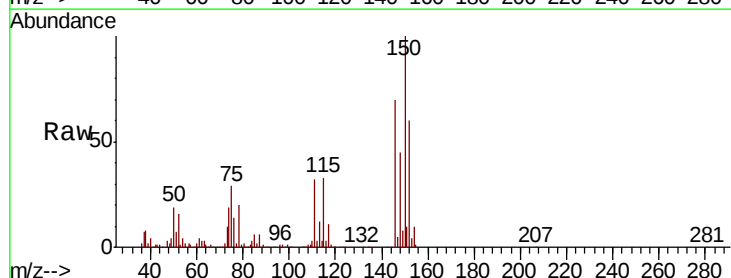
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

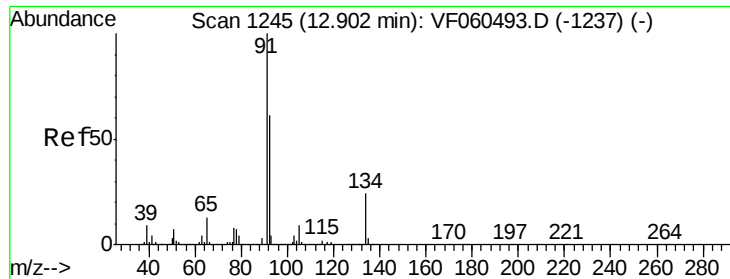
Tgt Ion:146 Resp: 128693
 Ion Ratio Lower Upper
 146 100
 111 44.2 22.2 66.6
 148 66.8 32.7 98.1



#88
 1,4-Dichlorobenzene
 Concen: 19.873 ug/l
 RT: 12.63 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion:146 Resp: 127022
 Ion Ratio Lower Upper
 146 100
 111 45.2 23.2 69.6
 148 63.9 33.3 99.9





#89

n-Butylbenzene

Concen: 20.393 ug/l

RT: 12.90 min Scan# 1245

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

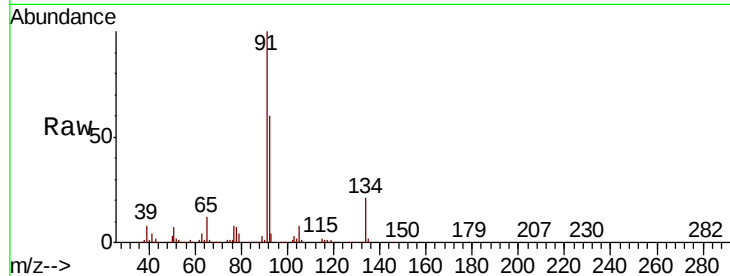
Tgt Ion: 91 Resp: 313270

Ion Ratio Lower Upper

91 100

92 59.9 30.8 92.3

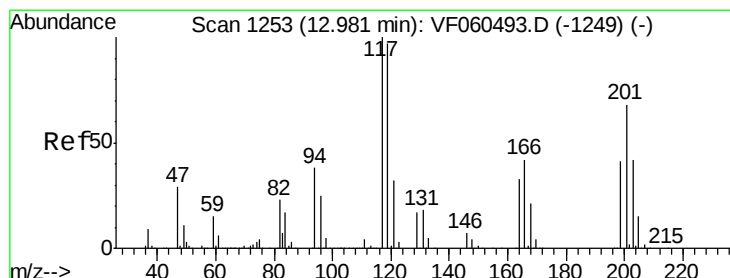
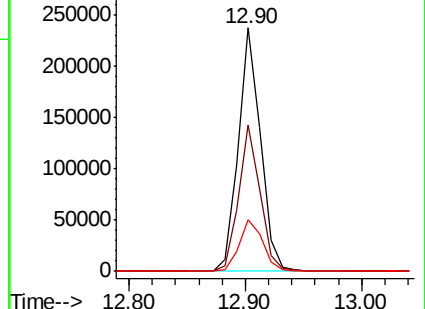
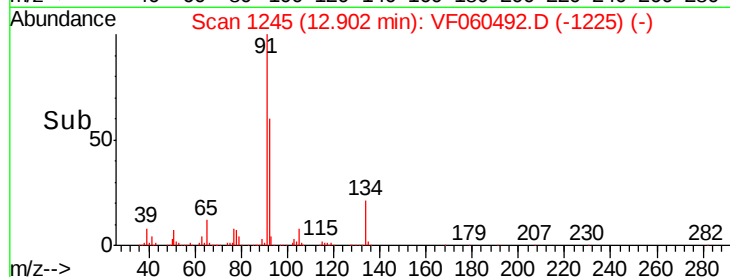
134 21.4 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF060492.D (-1237) (-)

Ion 92.00 (91.70 to 92.70): VF060492.D (-1237) (-)

Ion 134.00 (133.70 to 134.70): VF060492.D (-1237) (-)



#90

Hexachloroethane

Concen: 19.292 ug/l

RT: 12.98 min Scan# 1253

Delta R.T. 0.00 min

Lab File: VF060492.D

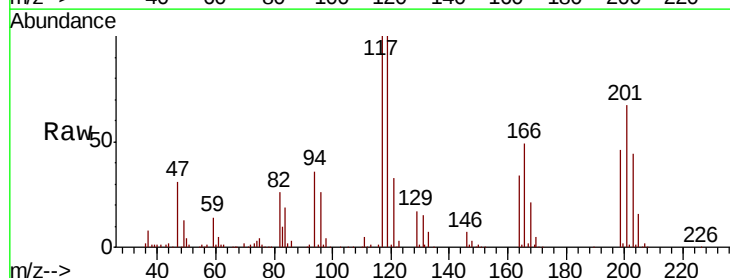
Acq: 9 Oct 2018 15:43

Tgt Ion: 117 Resp: 71771

Ion Ratio Lower Upper

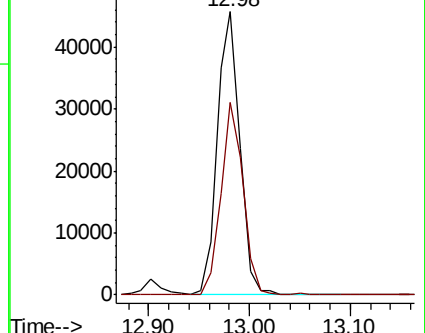
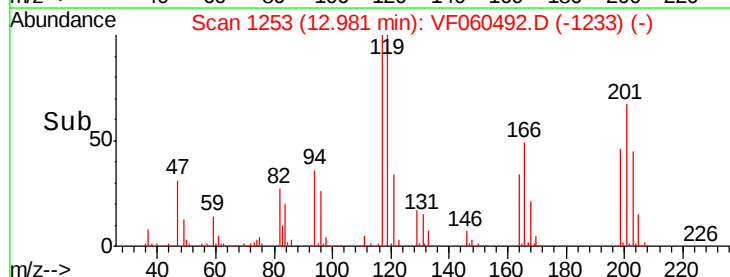
117 100

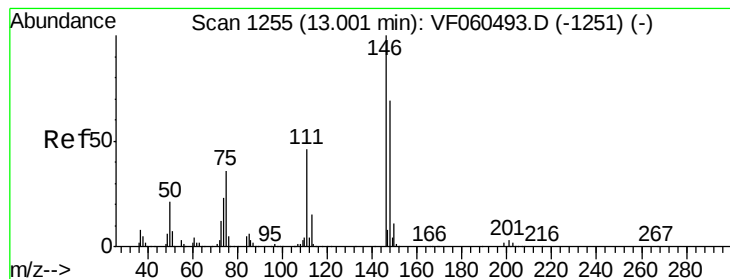
201 68.0 34.0 102.0



Abundance Ion 117.00 (116.70 to 117.70): VF060492.D (-1233) (-)

Ion 201.00 (200.70 to 201.70): VF060492.D (-1233) (-)





#91

1,2-Dichlorobenzene

Concen: 20.651 ug/l

RT: 13.00 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

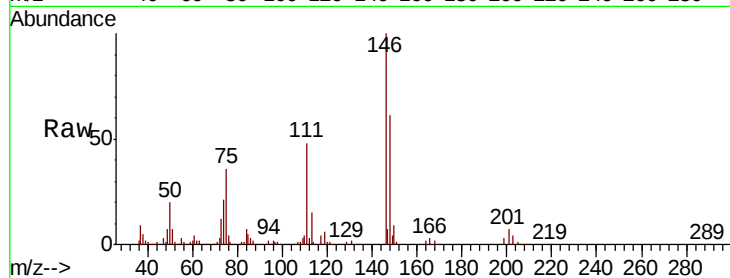
Tgt Ion:146 Resp: 128680

Ion Ratio Lower Upper

146 100

111 47.6 22.9 68.7

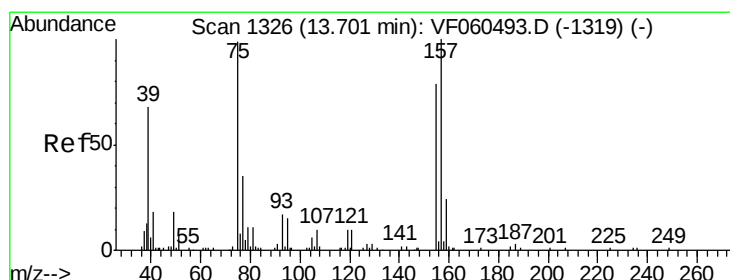
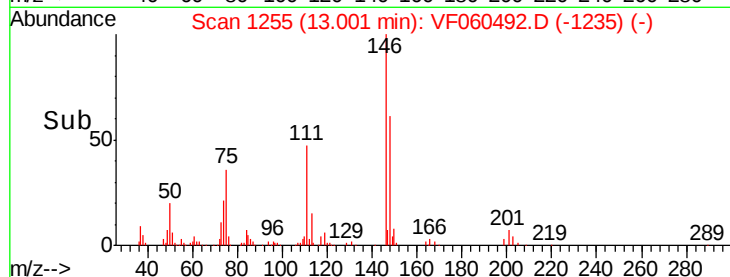
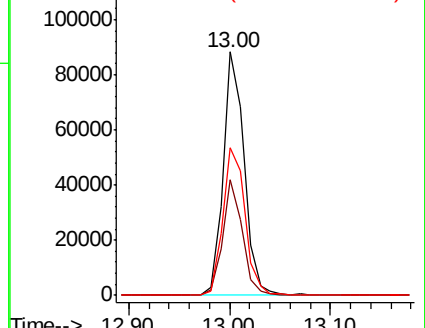
148 60.8 34.5 103.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.915 ug/l

RT: 13.70 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

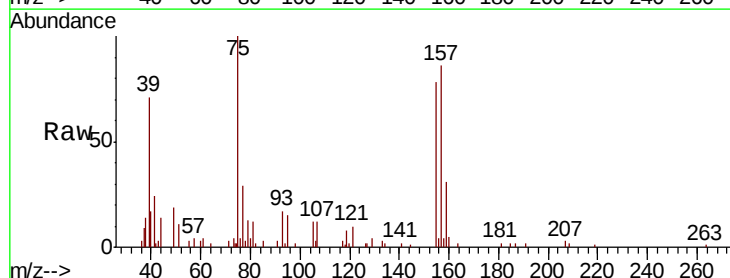
Tgt Ion: 75 Resp: 11011

Ion Ratio Lower Upper

75 100

155 77.8 40.6 121.7

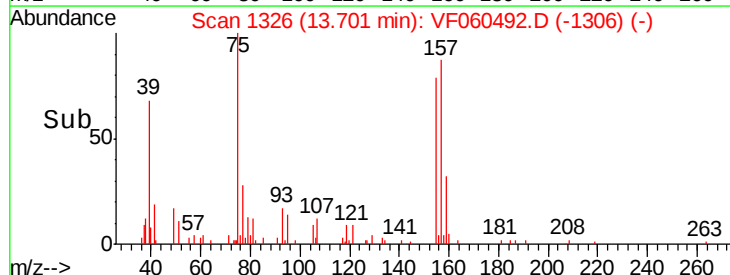
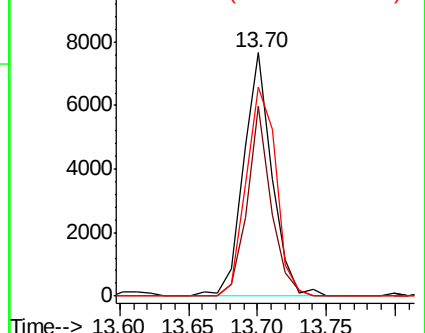
157 86.1 50.8 152.5

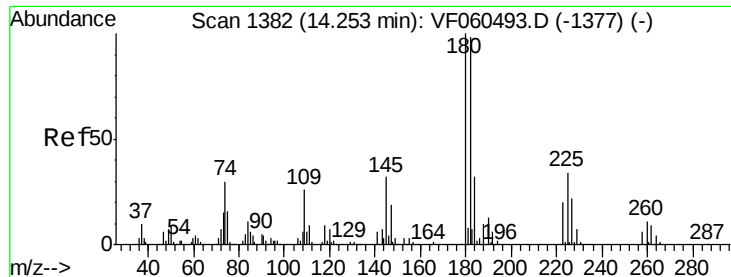


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

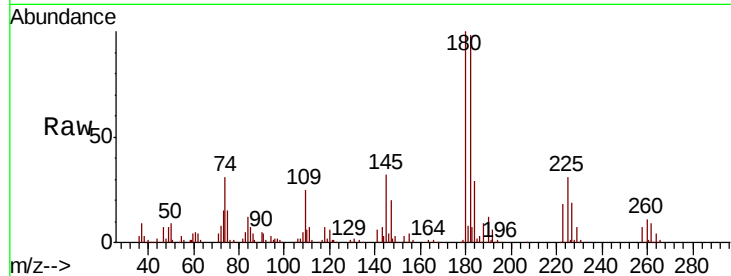




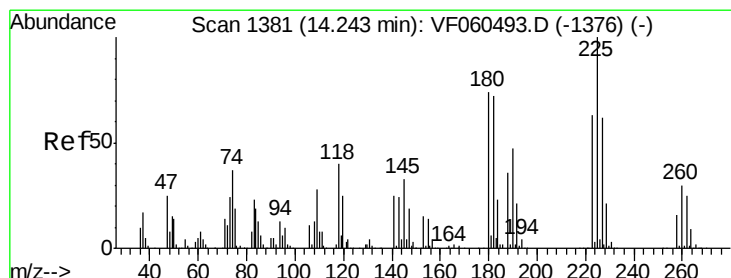
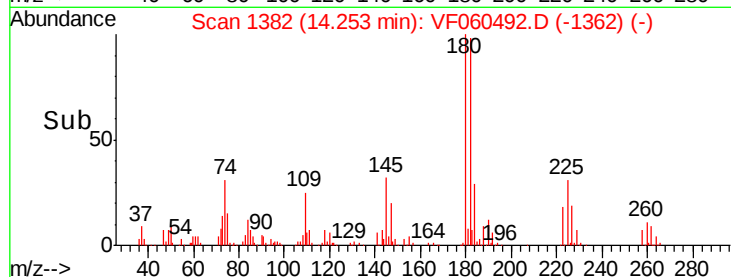
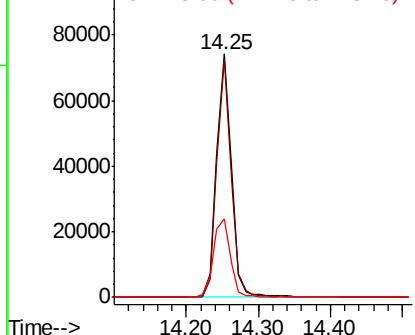
#93
1,2,4-Trichlorobenzene
Concen: 22.381 ug/l
RT: 14.25 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion:180 Resp: 104311
Ion Ratio Lower Upper
180 100
182 98.0 48.9 146.8
145 32.2 16.2 48.5

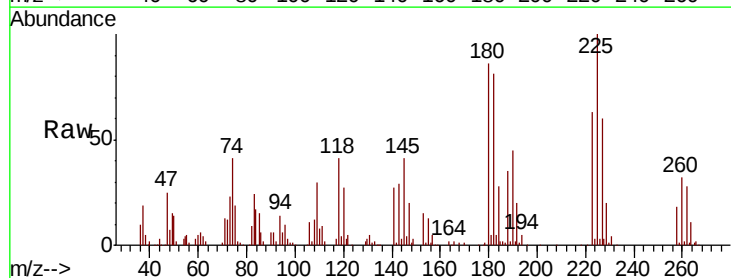


Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

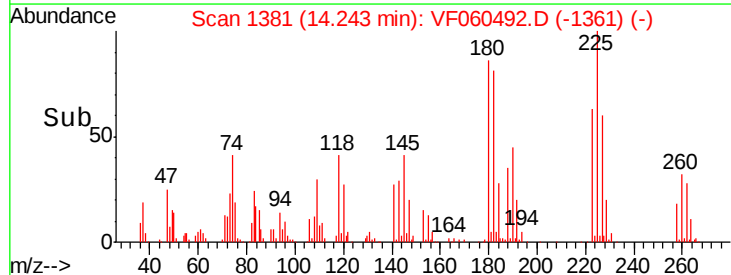
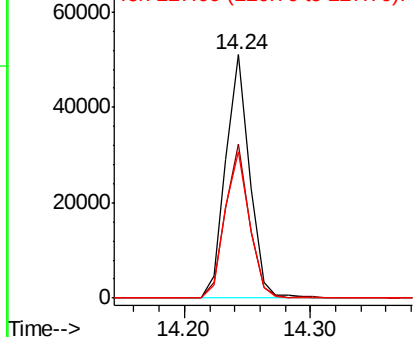


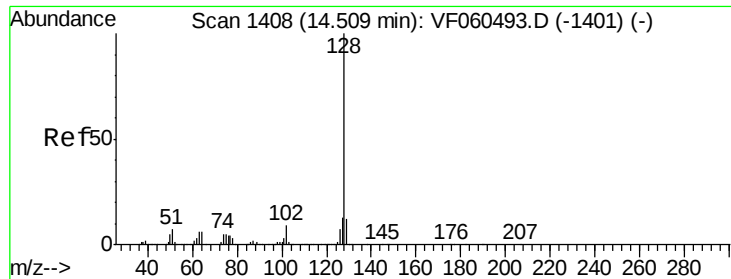
#94
Hexachlorobutadiene
Concen: 20.355 ug/l
RT: 14.24 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion:225 Resp: 66714
Ion Ratio Lower Upper
225 100
223 63.4 31.4 94.2
227 60.3 30.9 92.7



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: 19.818 ug/l

RT: 14.51 min Scan# 1408

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

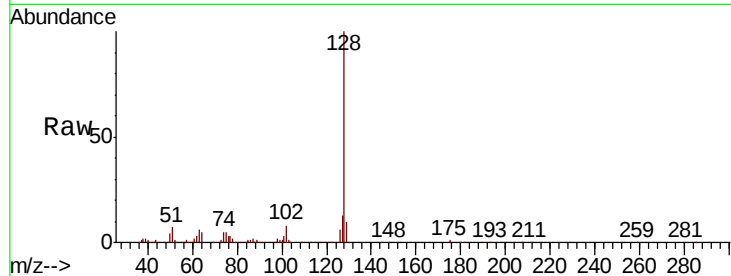
Tgt Ion:128 Resp: 164929

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.2

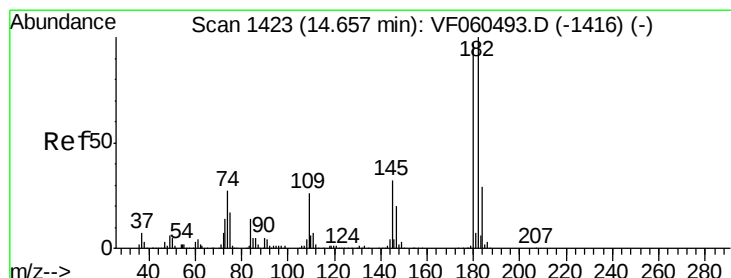
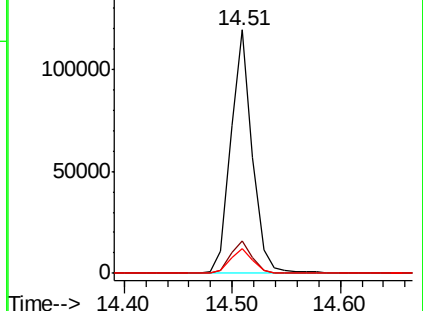
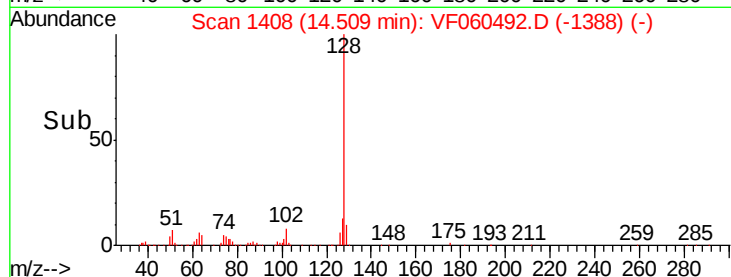
129 9.9 9.2 13.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 21.987 ug/l

RT: 14.66 min Scan# 1423

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

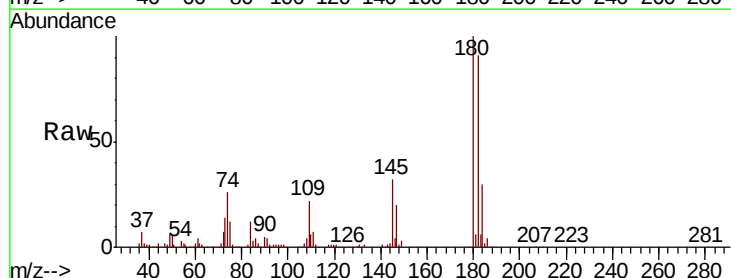
Tgt Ion:180 Resp: 96532

Ion Ratio Lower Upper

180 100

182 91.1 51.3 153.9

145 32.3 16.4 49.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

