

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051719\
 Data File : VF062643.D
 Acq On : 17 May 2019 17:27
 Operator : FY/SY
 Sample : K2894-02
 Misc : 5.10µ/5mL/MSVOA F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 18 01:41:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	39782	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.78	114	48494	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.92	117	18737	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.53	152	264	50.00	ug/l	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	5017	17.85	ug/l	0.00
Spiked Amount				50.000		
Recovery						35.70%
35) Dibromofluoromethane	4.30	113	4328	11.66	ug/l	-0.02
Spiked Amount				50.000		
Recovery						23.32%
50) Toluene-d8	7.72	98	26502	29.91	ug/l	0.00
Spiked Amount				50.000		
Recovery						59.82%
62) 4-Bromofluorobenzene	11.50	95	3019	8.98	ug/l	0.00
Spiked Amount				50.000		
Recovery						17.96%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.15	85	604	1.116	ug/l	85
3) Chloromethane	1.15	50	805	1.615	ug/l #	80
5) Bromomethane	1.38	94	652	2.597	ug/l #	34
6) Chloroethane	1.43	64	950	5.637	ug/l #	51
8) Diethyl Ether	1.73	74	223	1.827	ug/l	78
11) Tert butyl alcohol	2.68	59	383	20.636	ug/l #	70
13) Acrolein	2.15	56	784	40.467	ug/l #	63
14) Allyl chloride	2.35	41	487	1.506	ug/l	85
15) Acrylonitrile	3.07	53	154	2.942	ug/l #	1
16) Acetone	2.34	43	4219	57.849	ug/l	98
18) Methyl Acetate	2.43	43	1693	14.772	ug/l #	90
19) Methyl tert-butyl Ether	2.56	73	716	1.121	ug/l	95
20) Methylene Chloride	2.31	84	447	1.223	ug/l #	15
21) trans-1,2-Dichloroethene	2.43	96	684	1.958	ug/l #	4
23) Vinyl Acetate	3.32	43	1138	2.115	ug/l #	73
25) 2-Butanone	4.52	43	931	5.975	ug/l #	50
26) 2,2-Dichloropropane	3.80	77	474	1.416	ug/l	92
27) cis-1,2-Dichloroethene	3.65	96	1035	1.801	ug/l	15
29) Tetrahydrofuran	4.23	42	736	11.673	ug/l #	30
31) Cyclohexane	3.86	56	1196	1.522	ug/l #	44
36) 1,1-Dichloropropene	4.47	75	813	1.636	ug/l #	1
37) Ethyl Acetate	4.30	43	1000	4.929	ug/l #	62
40) Benzene	4.79	78	1706	1.260	ug/l #	82
41) Methacrylonitrile	4.93	41	399	3.751	ug/l #	30
42) 1,2-Dichloroethane	5.23	62	313	1.159	ug/l	71
43) Isopropyl Acetate	7.09	43	1021	3.884	ug/l #	43
46) Dibromomethane	6.31	93	323	1.635	ug/l #	19
48) Methyl methacrylate	6.87	41	1235	8.989	ug/l #	41
49) 1,4-Dioxane	6.85	88	85	48.305	ug/l #	1
51) 4-Methyl-2-Pentanone	8.55	43	729	4.057	ug/l	96
53) t-1,3-Dichloropropene	8.38	75	984	2.934	ug/l #	44
54) cis-1,3-Dichloropropene	7.49	75	515	1.097	ug/l #	1
55) 1,1,2-Trichloroethane	8.61	97	568	2.702	ug/l #	40
56) Ethyl methacrylate	8.76	69	1598	6.381	ug/l #	46

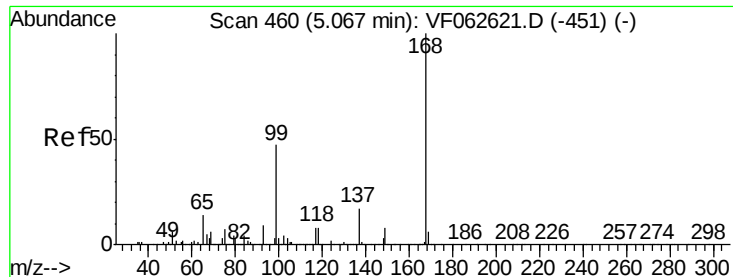
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051719\
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 2-Chloroethyl Vinyl ether	7.39	63	482	5.913	ug/l #	27
59) 2-Hexanone	9.68	43	1647	Below Cal		75
64) Tetrachloroethene	8.29	164	151	1.017	ug/l #	43
67) Ethyl Benzene	10.03	91	1501	2.348	ug/l #	95
68) m/p-Xylenes	10.27	106	839	3.492	ug/l #	55
71) Bromoform	10.86	173	205	2.771	ug/l #	27
73) Isopropylbenzene	11.22	105	1343	70.978	ug/l #	97
74) N-amyl acetate	11.45	43	883	199.554	ug/l #	73
75) 1,1,2,2-Tetrachloroethane	11.74	83	871	225.249	ug/l #	88
76) 1,2,3-Trichloropropane	11.88	75	232	91.312	ug/l #	1
77) Bromobenzene	11.61	156	338	71.865	ug/l #	36
78) n-propylbenzene	11.82	91	399	17.818	ug/l #	78
79) 2-Chlorotoluene	11.82	91	1114	88.274	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.82	105	321	21.157	ug/l #	78
81) trans-1,4-Dichloro-2-buten	11.95	75	261	231.100	ug/l #	55
82) 4-Chlorotoluene	12.02	91	1030	82.766	ug/l #	95
83) tert-Butylbenzene	12.20	119	886	57.560	ug/l #	62
84) 1,2,4-Trimethylbenzene	12.28	105	686	46.716	ug/l #	94
85) sec-Butylbenzene	12.28	105	686	33.209	ug/l #	97
86) p-Isopropyltoluene	12.52	119	487	27.974	ug/l #	33
87) 1,3-Dichlorobenzene	12.55	146	191	22.446	ug/l #	23
88) 1,4-Dichlorobenzene	12.62	146	285	35.691	ug/l #	24
89) n-Butylbenzene	12.97	91	673	39.209	ug/l #	76
90) Hexachloroethane	12.99	117	173	41.425	ug/l #	53
91) 1,2-Dichlorobenzene	12.99	146	302	39.815	ug/l #	44
92) 1,2-Dibromo-3-Chloropropan	13.55	75	150	325.169	ug/l #	63
93) 1,2,4-Trichlorobenzene	14.29	180	80	14.735	ug/l #	1
94) Hexachlorobutadiene	14.22	225	66	17.419	ug/l #	16
95) Naphthalene	14.48	128	1094	110.914	ug/l #	68
96) 1,2,3-Trichlorobenzene	14.64	180	172	33.445	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

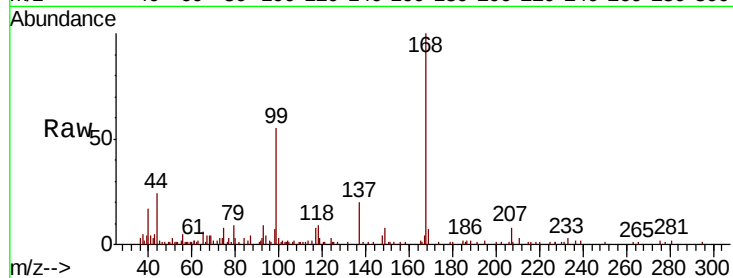
ClientSampled :

Tot Ion:168 Resp: 39782

Ion Ratio Lower Upper

168 100

99 55.3 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

15000

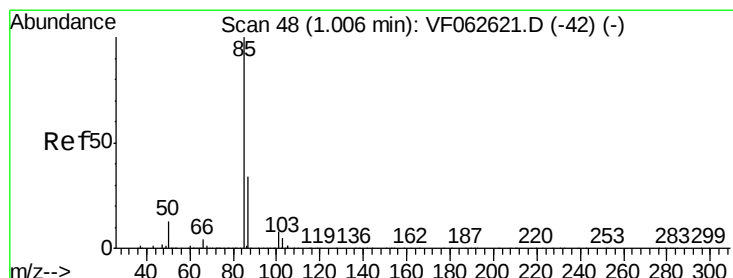
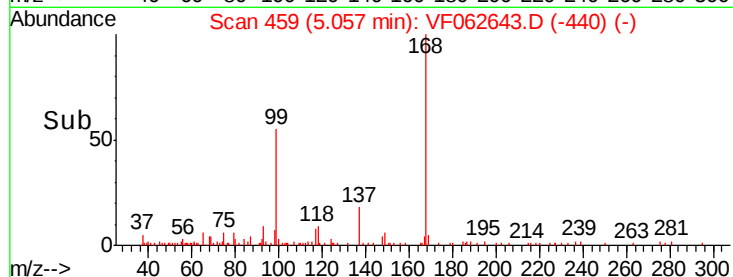
10000

5000

0

Time-->

5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 1.116 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.15 min

Lab File: VF062643.D

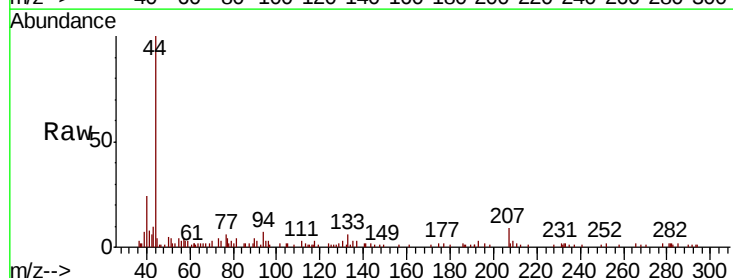
Acq: 17 May 2019 17:27

Tgt Ion: 85 Resp: 604

Ion Ratio Lower Upper

85 100

87 42.0 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.15

400

300

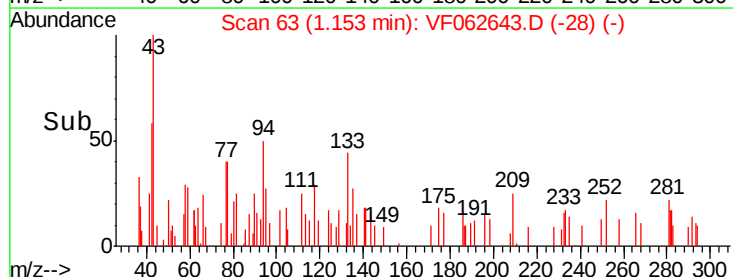
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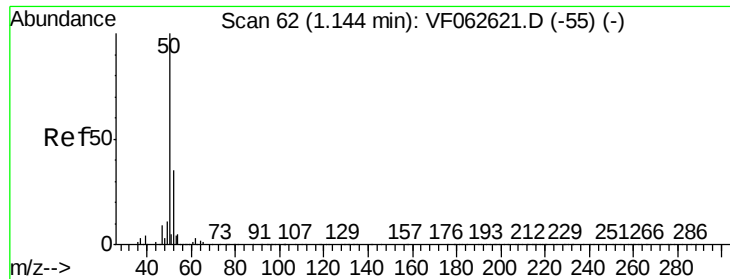
100

0

Time-->

1.10 1.15





#3

Chloromethane

Concen: 1.615 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

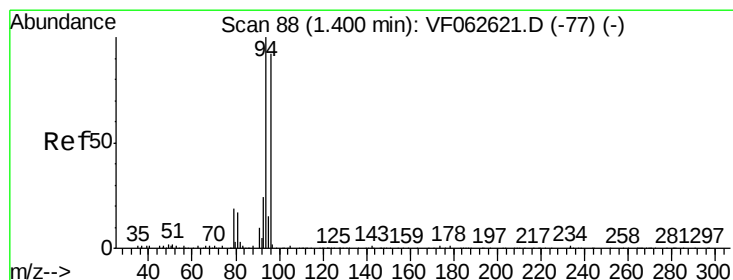
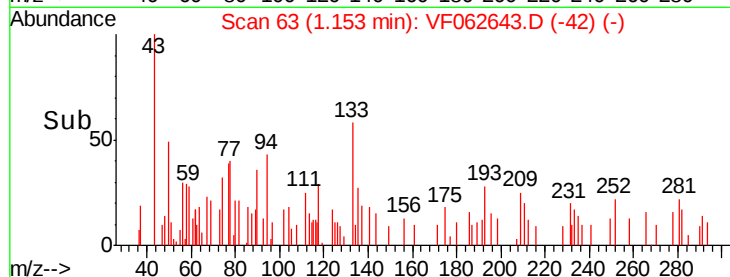
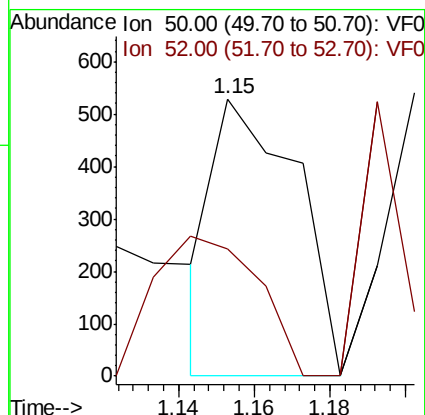
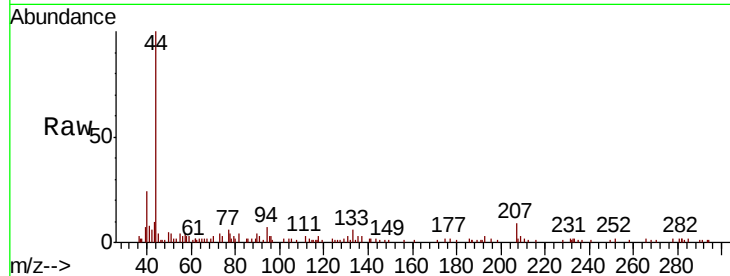
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 805

Ion Ratio Lower Upper

50 100

52 46.1 27.5 41.3#



#5

Bromomethane

Concen: 2.597 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062643.D

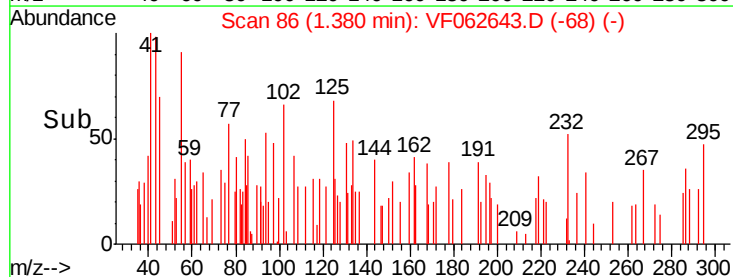
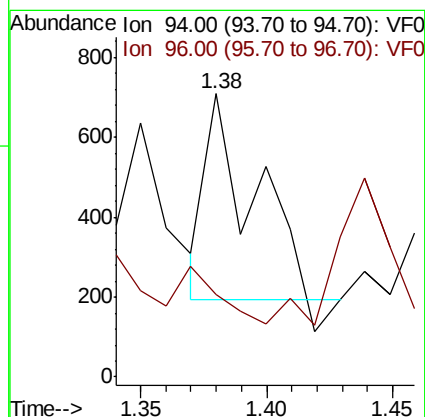
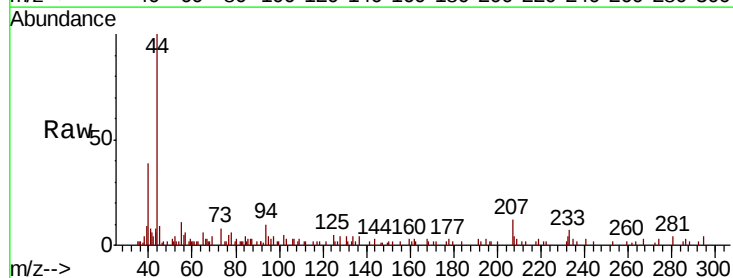
Acq: 17 May 2019 17:27

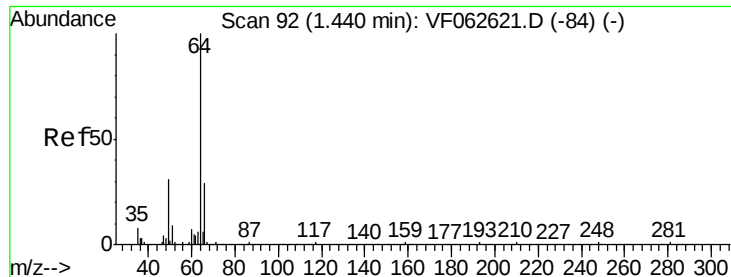
Tgt Ion: 94 Resp: 652

Ion Ratio Lower Upper

94 100

96 29.2 73.2 109.8#





#6

Chloroethane

Concen: 5.637 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

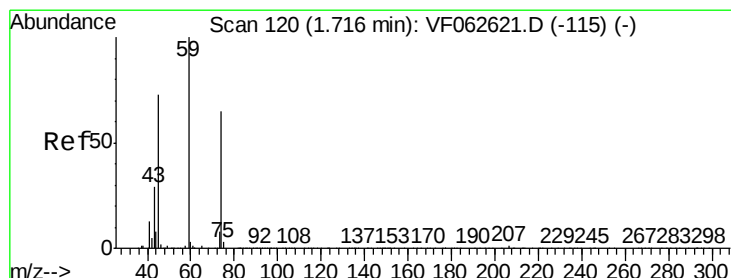
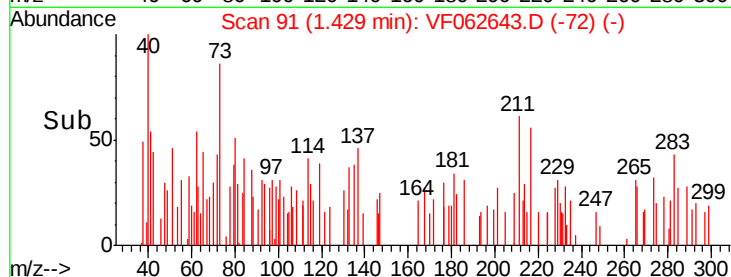
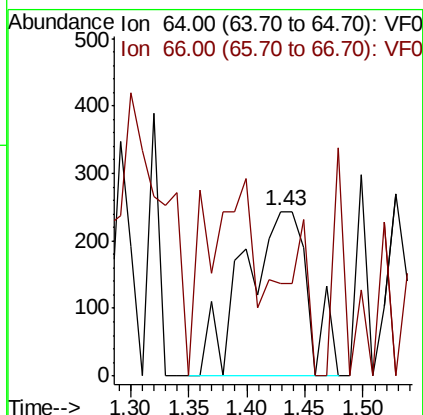
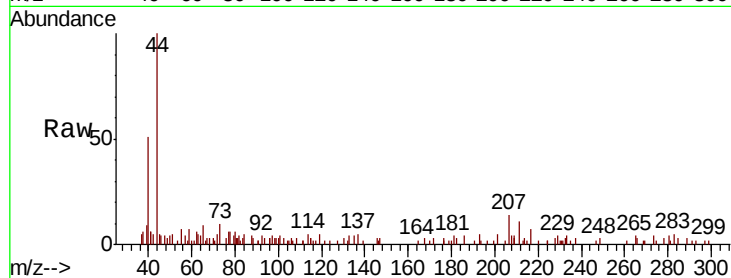
ClientSampleId :

Tot Ion: 64 Resp: 950

Ion Ratio Lower Upper

64 100

66 55.7 23.4 35.2#



#8

Diethyl Ether

Concen: 1.827 ug/l

RT: 1.73 min Scan# 122

Delta R.T. 0.02 min

Lab File: VF062643.D

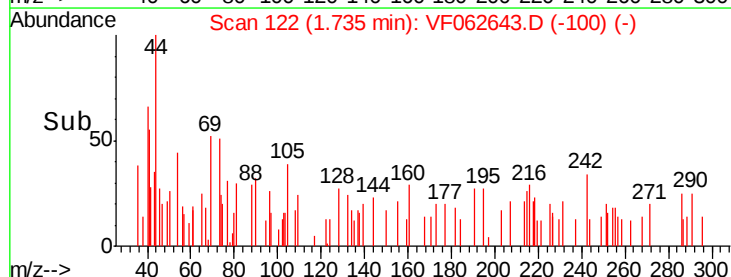
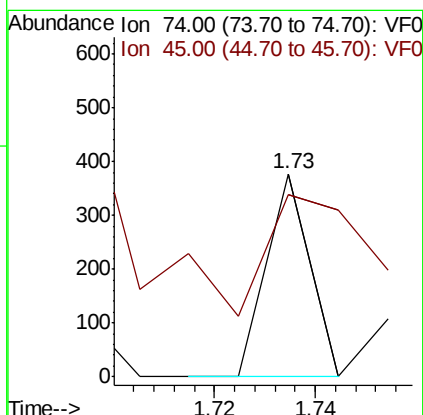
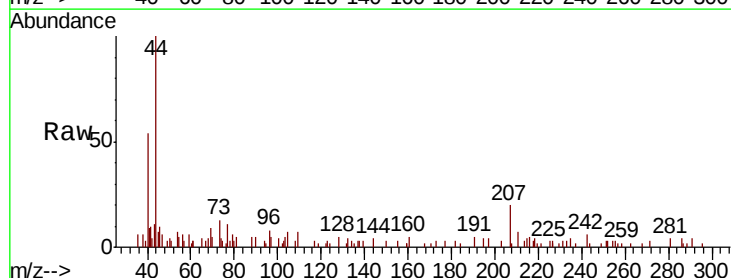
Acq: 17 May 2019 17:27

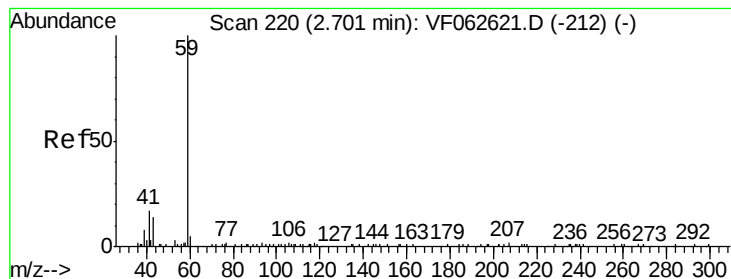
Tgt Ion: 74 Resp: 223

Ion Ratio Lower Upper

74 100

45 89.9 57.0 170.8



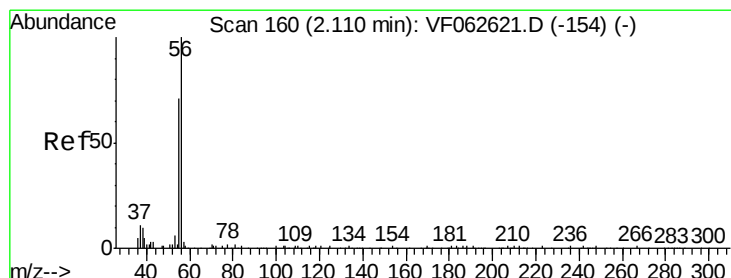
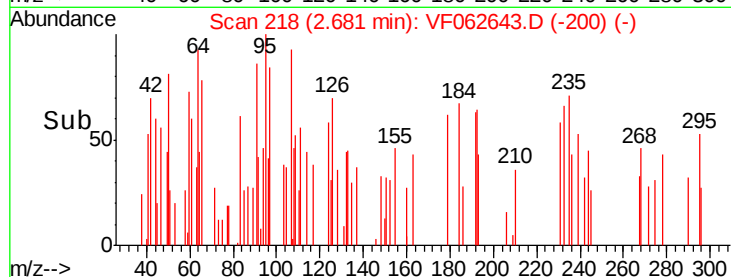
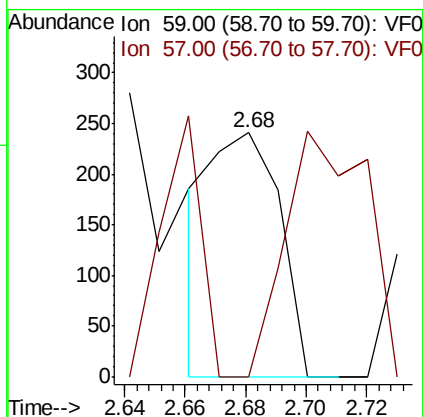
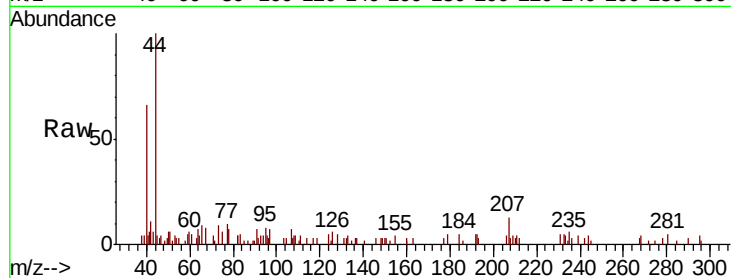


#11

Tert butyl alcohol
 Concen: 20.636 ug/l
 RT: 2.68 min Scan# 218
 Delta R.T. -0.02 min
 Lab File: VF062643.D
 Acq: 17 May 2019 17:27

Instrument :
 MSVOA_F
 ClientSampled :

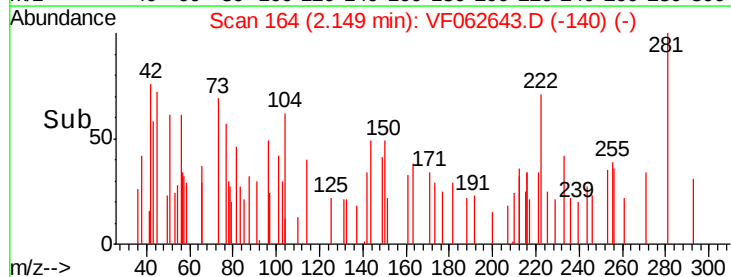
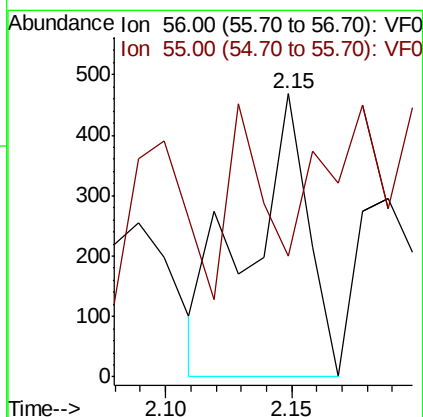
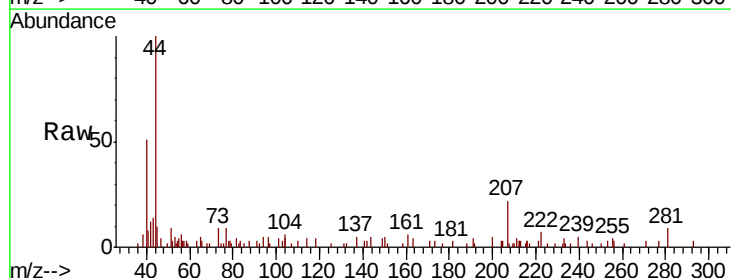
Tot Ion: 59 Resp: 383
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

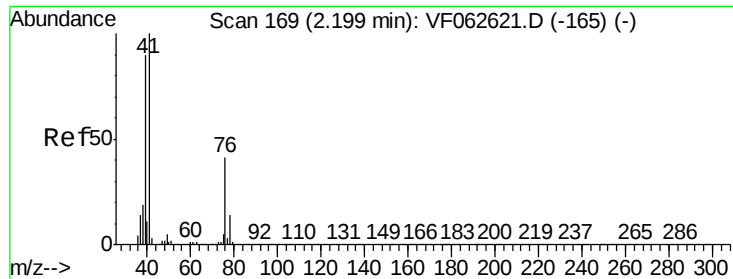


#13

Acrolein
 Concen: 40.467 ug/l
 RT: 2.15 min Scan# 164
 Delta R.T. 0.04 min
 Lab File: VF062643.D
 Acq: 17 May 2019 17:27

Tgt Ion: 56 Resp: 784
 Ion Ratio Lower Upper
 56 100
 55 42.7 59.4 89.0#

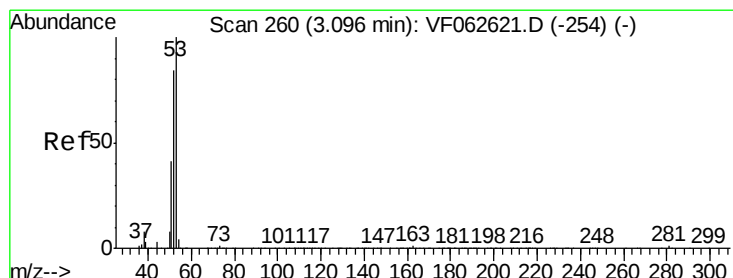
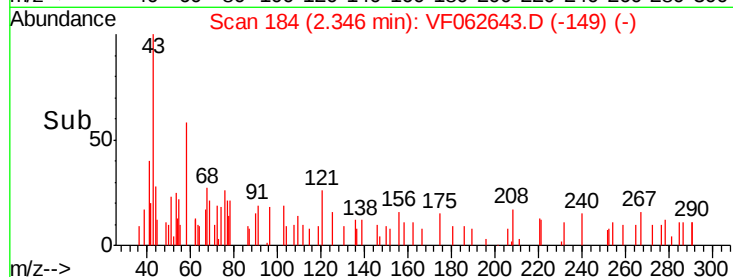
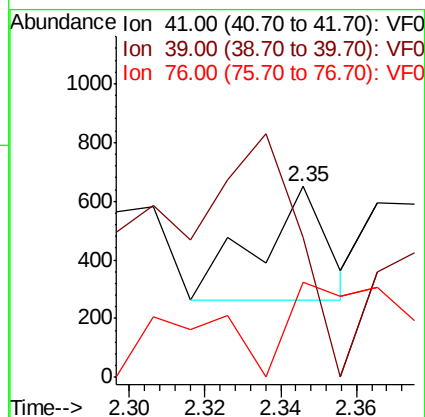
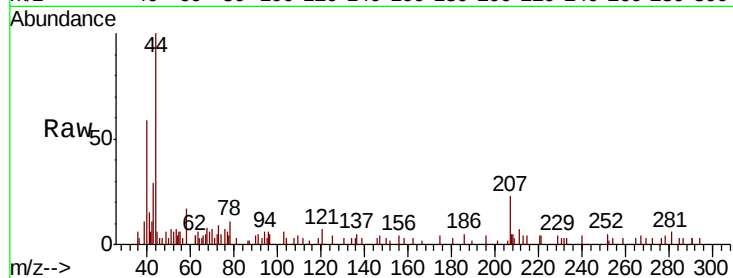




#14
Allvl chloride
Concen: 1.506 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.15 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

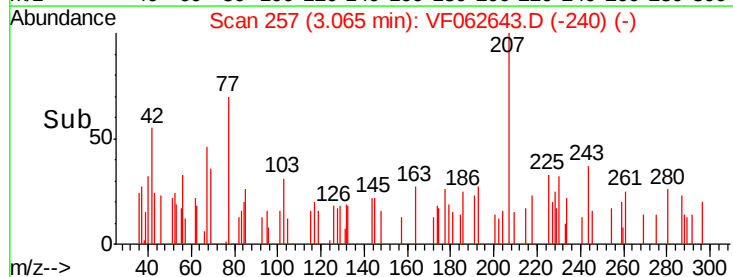
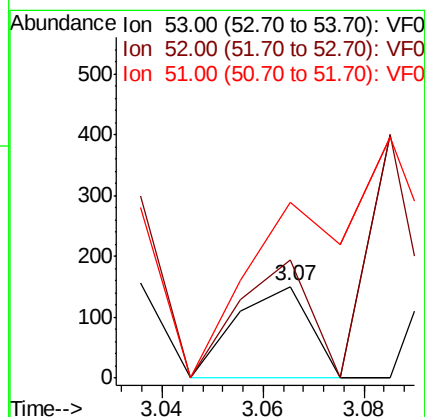
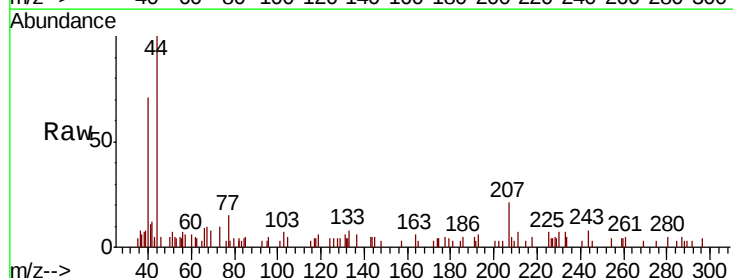
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MSVOA_F
ClientSampled :

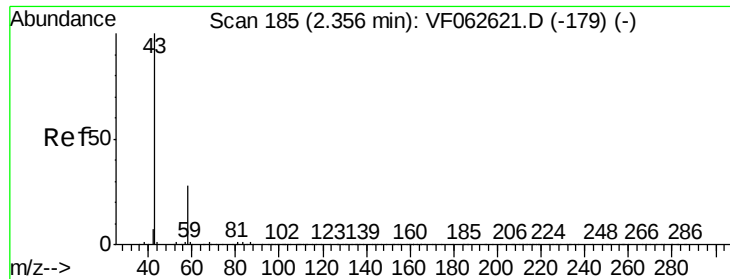
Tot Ion: 41 Resp: 487
Ion Ratio Lower Upper
41 100
39 73.2 72.0 108.0
76 49.6 34.8 52.2



#15
Acrylonitrile
Concen: 2.942 ug/l
RT: 3.07 min Scan# 257
Delta R.T. -0.03 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

Tgt Ion: 53 Resp: 154
Ion Ratio Lower Upper
53 100
52 129.3 67.3 100.9#
51 192.7 33.0 49.6#

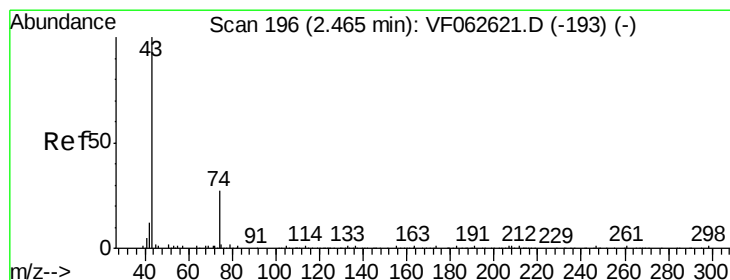
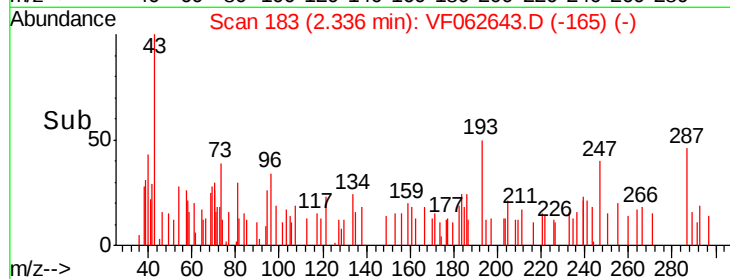
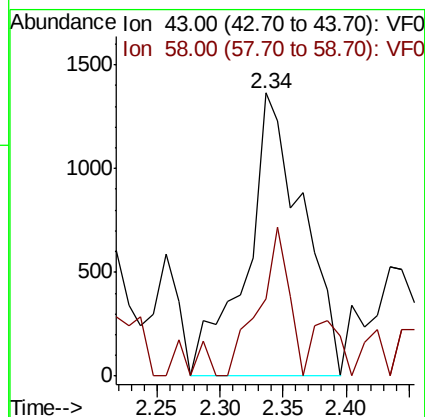
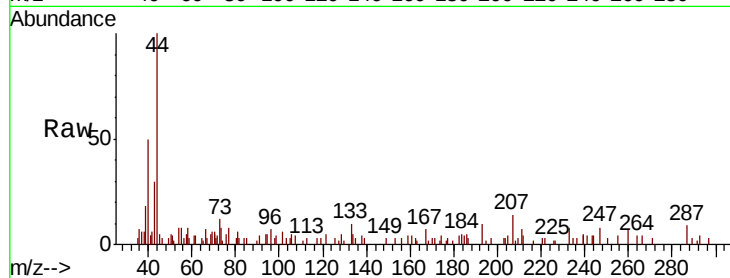




#16
Acetone
Concen: 57.849 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

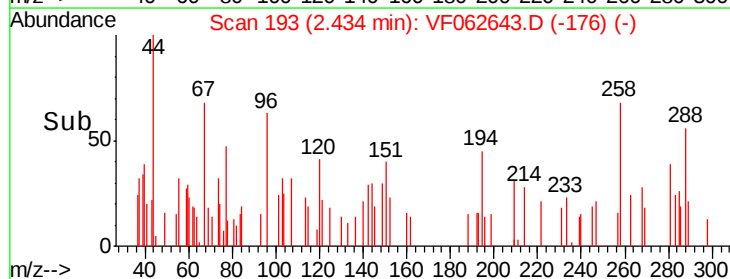
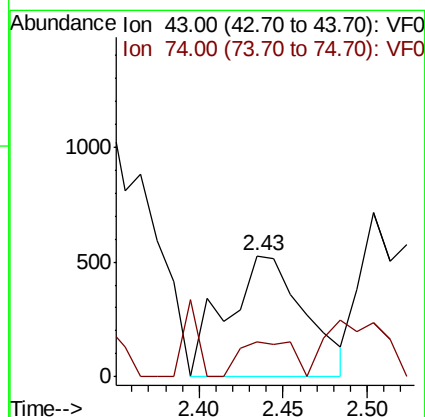
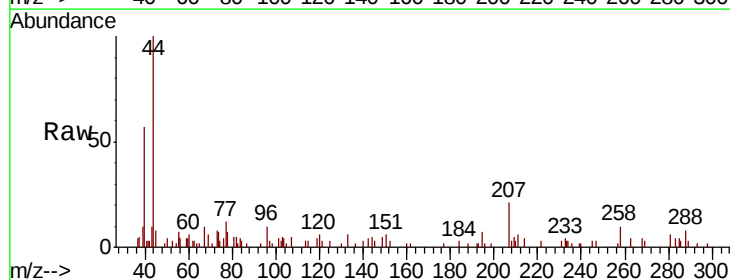
Instrument :
MSVOA_F
ClientSampleId :

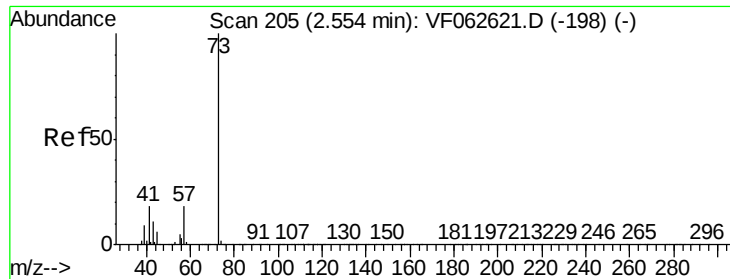
Tot Ion: 43 Resp: 4219
Ion Ratio Lower Upper
43 100
58 27.3 22.6 33.8



#18
Methyl Acetate
Concen: 14.772 ug/l
RT: 2.43 min Scan# 193
Delta R.T. -0.03 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

Tgt Ion: 43 Resp: 1693
Ion Ratio Lower Upper
43 100
74 28.7 18.9 28.3#

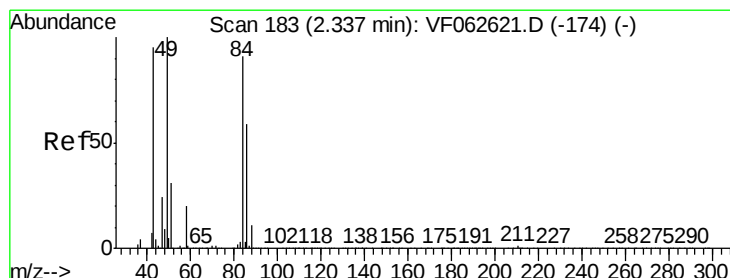
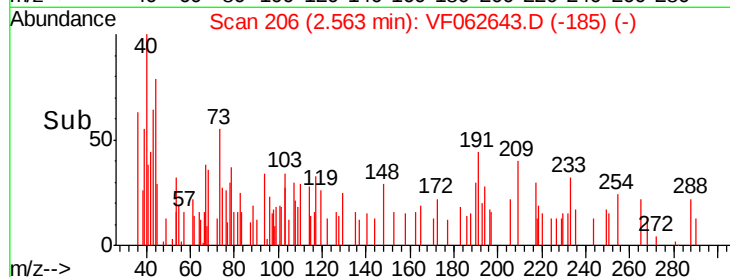
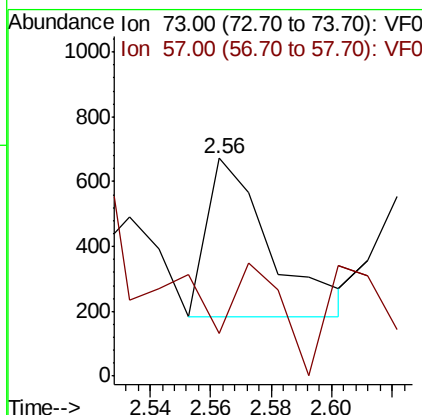
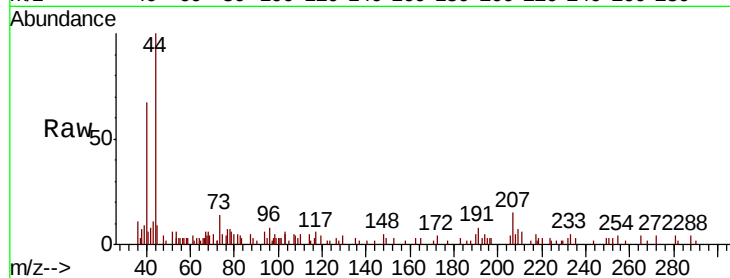




#19
Methyl tert-butyl Ether
Concen: 1.121 ug/l
RT: 2.56 min Scan# 206
Delta R.T. 0.01 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

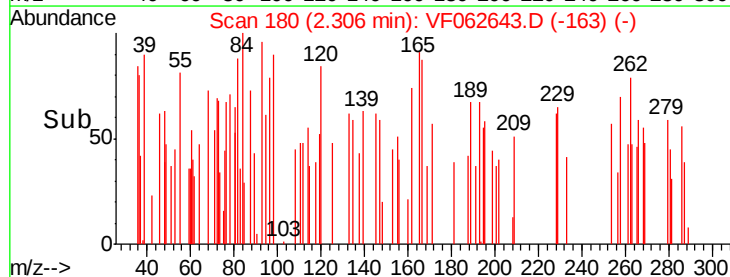
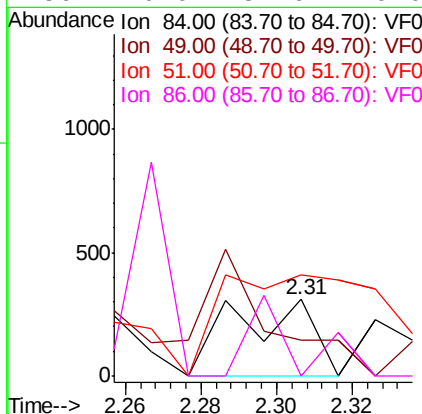
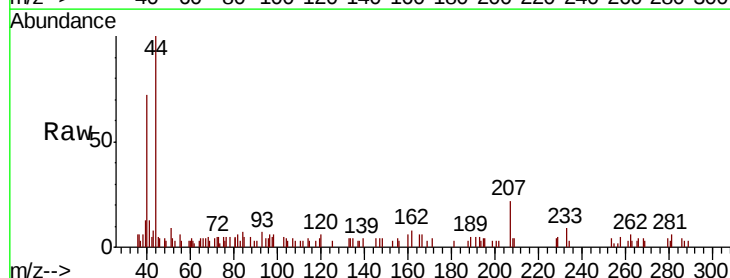
Instrument :
MSVOA_F
ClientSampled :

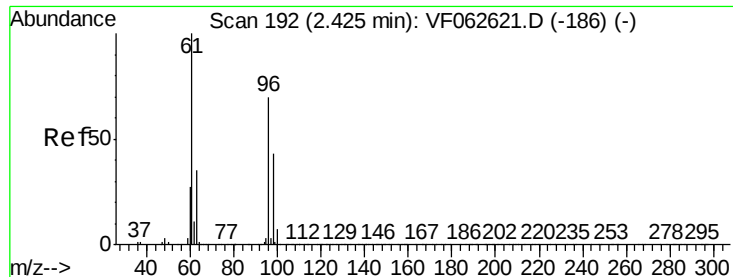
Tot Ion: 73 Resp: 716
Ion Ratio Lower Upper
73 100
57 19.9 14.2 21.4



#20
Methylene Chloride
Concen: 1.223 ug/l
RT: 2.31 min Scan# 180
Delta R.T. -0.03 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

Tgt Ion: 84 Resp: 447
Ion Ratio Lower Upper
84 100
49 46.9 89.8 134.8#
51 132.0 28.4 42.6#
86 0.0 52.6 79.0#





#21

trans-1,2-Dichloroethene

Concen: 1.958 ug/l

RT: 2.43 min Scan# 193

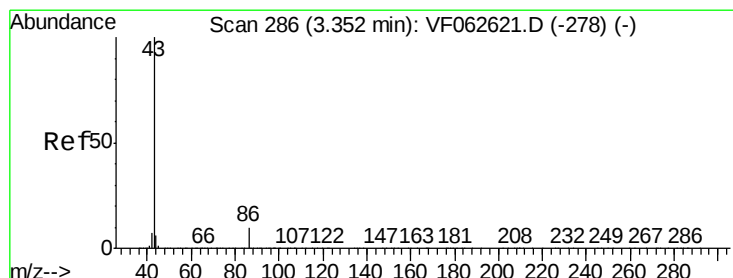
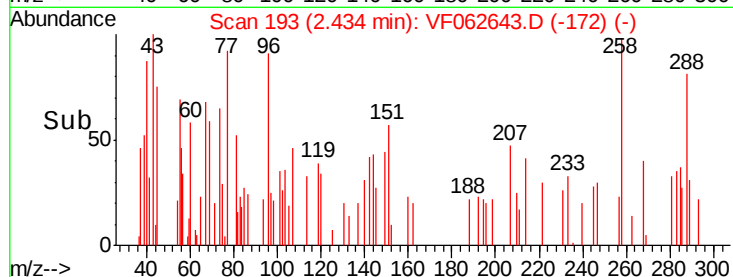
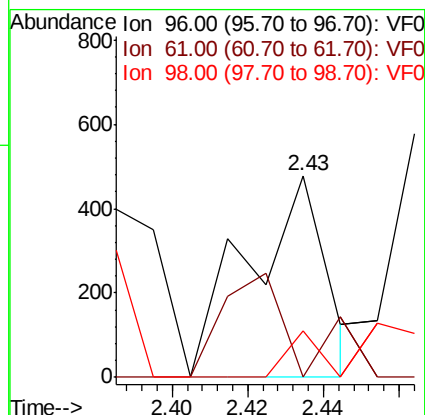
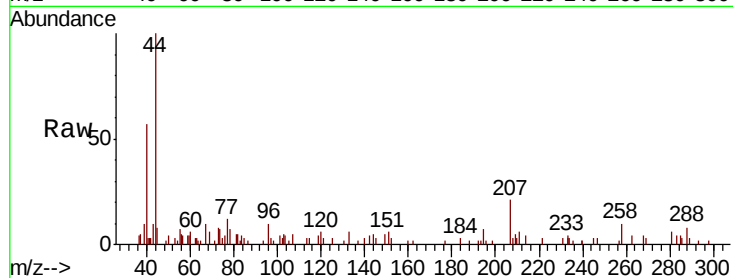
Delta R.T. 0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	96	Resp:	684
Ion	Ratio	Lower	Upper
96	100		
61	0.0	114.6	171.8#
98	23.4	49.5	74.3#



#23

Vinyl Acetate

Concen: 2.115 ug/l

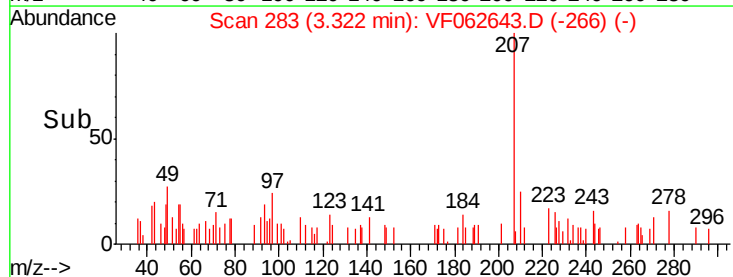
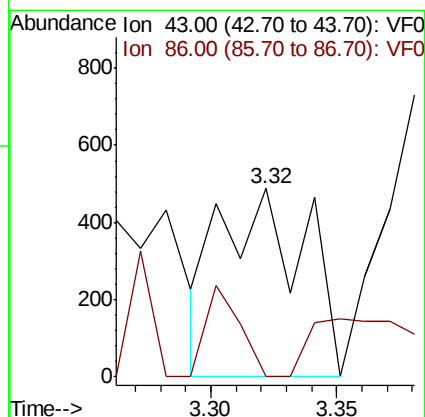
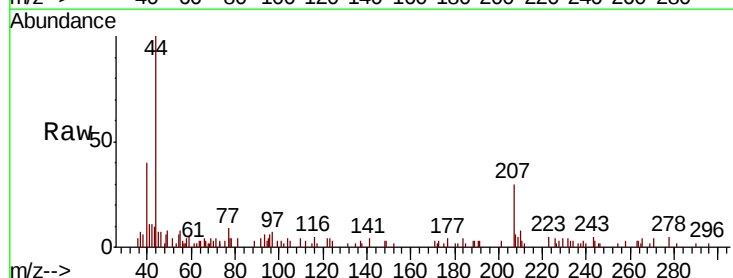
RT: 3.32 min Scan# 283

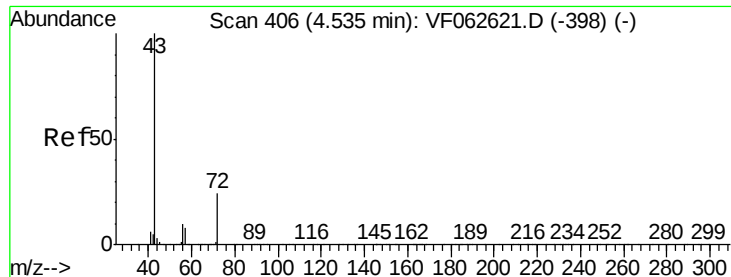
Delta R.T. -0.03 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Tgt Ion:	43	Resp:	1138
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.2	12.2#





#25

2-Butanone

Concen: 5.975 ug/l

RT: 4.52 min Scan# 405

Delta R.T. -0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

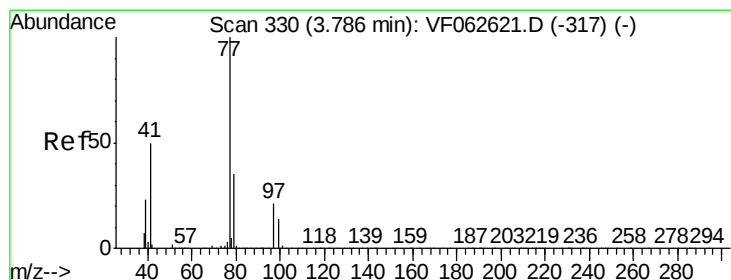
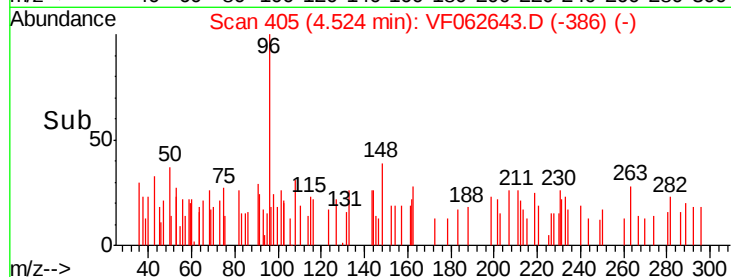
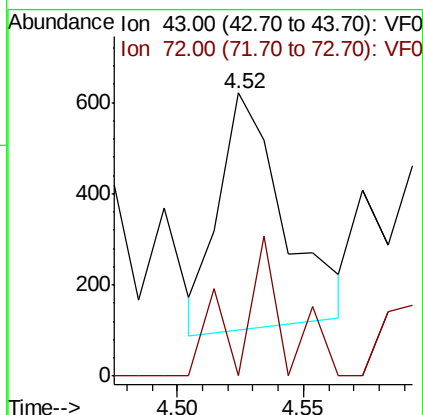
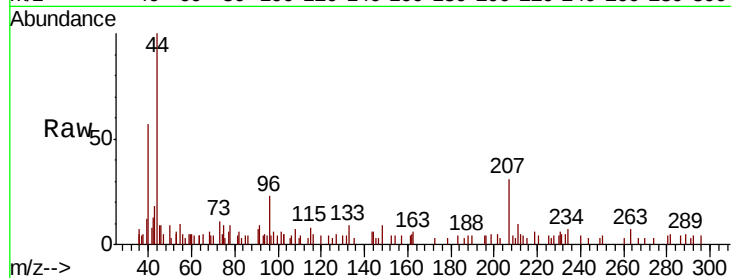
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 931

Ion Ratio Lower Upper

43 100

72 0.0 20.1 30.1#



#26

2,2-Dichloropropane

Concen: 1.416 ug/l

RT: 3.80 min Scan# 332

Delta R.T. 0.02 min

Lab File: VF062643.D

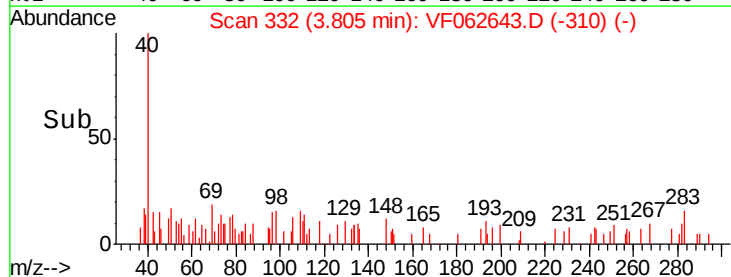
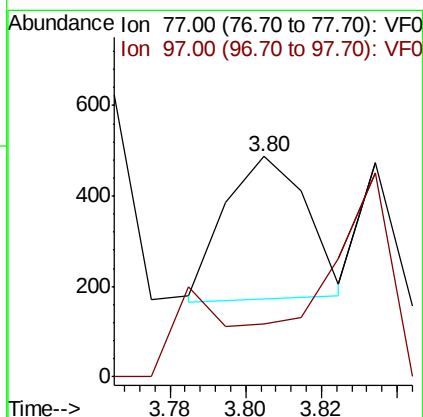
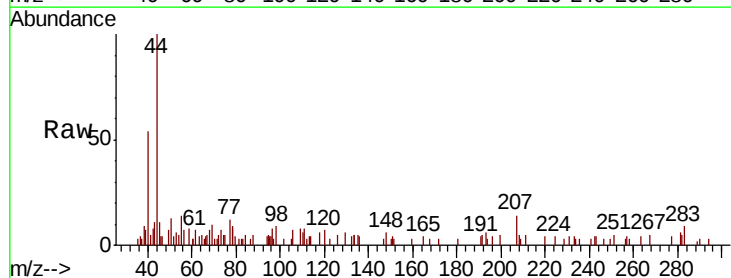
Acq: 17 May 2019 17:27

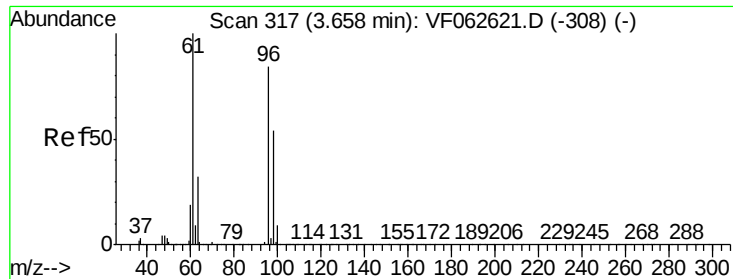
Tgt Ion: 77 Resp: 474

Ion Ratio Lower Upper

77 100

97 24.2 14.1 42.4

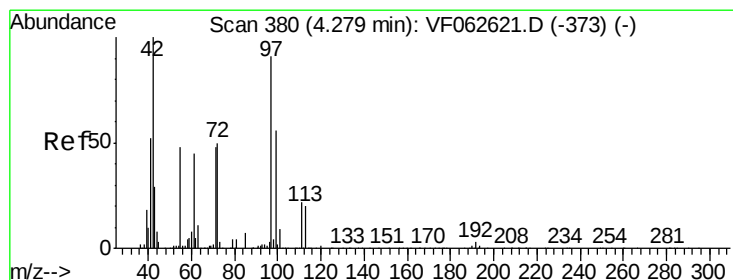
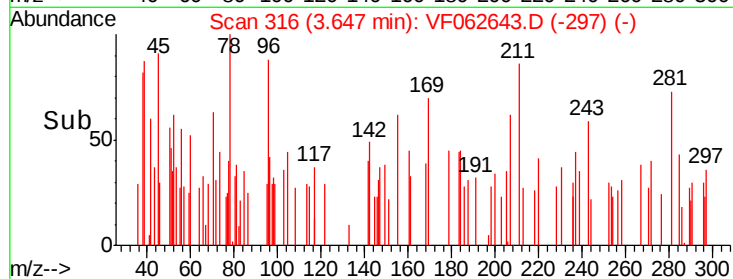
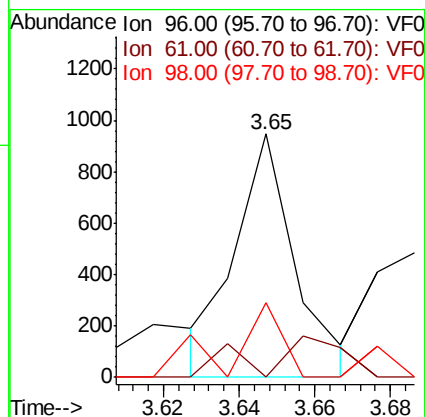
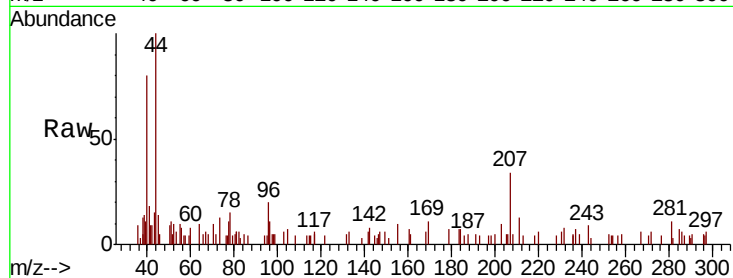




#27
 cis-1,2-Dichloroethene
 Concen: 1.801 ug/l
 RT: 3.65 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VF062643.D
 Acq: 17 May 2019 17:27

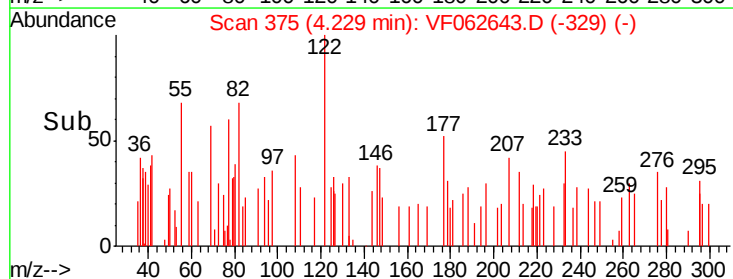
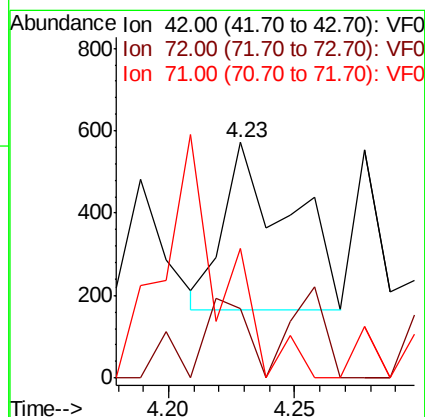
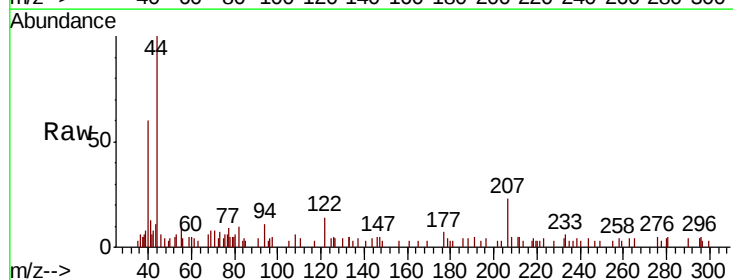
Instrument :
 MSVOA_F
 ClientSampled :

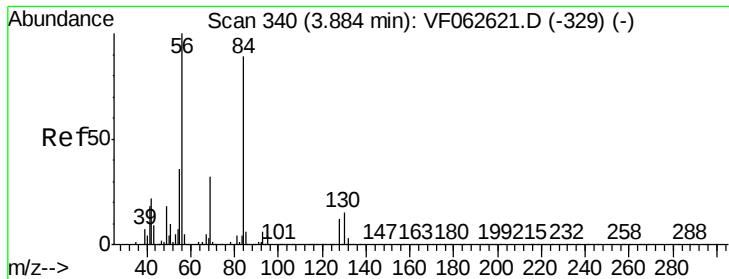
Tot Ion: 96 Resp: 1035
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 237.4
 98 30.7 0.0 129.0



#29
 Tetrahydrofuran
 Concen: 11.673 ug/l
 RT: 4.23 min Scan# 375
 Delta R.T. -0.05 min
 Lab File: VF062643.D
 Acq: 17 May 2019 17:27

Tgt Ion: 42 Resp: 736
 Ion Ratio Lower Upper
 42 100
 72 37.9 38.2 57.2#
 71 129.1 35.8 53.6#





#31

Cyclohexane

Concen: 1.522 ug/l

RT: 3.86 min Scan# 338

Delta R.T. -0.02 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampled :

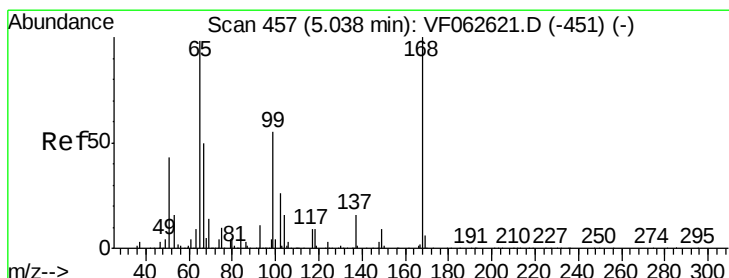
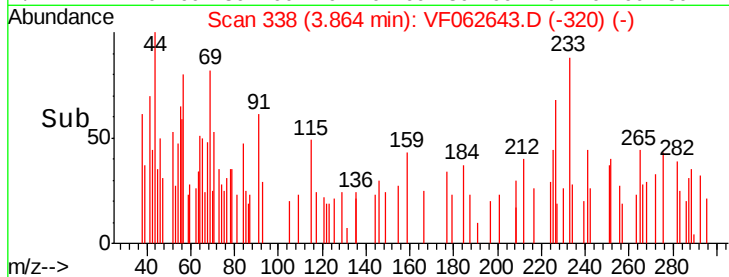
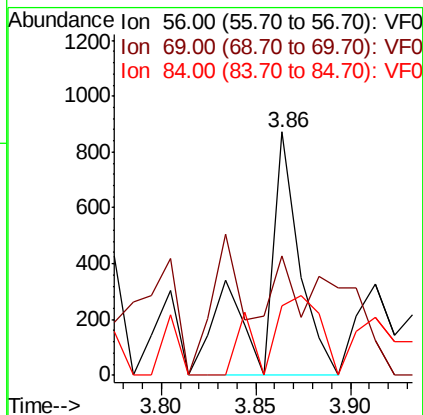
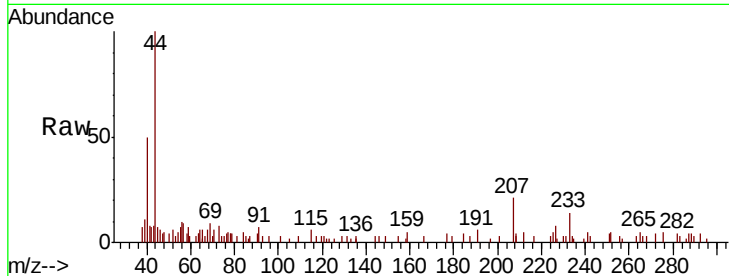
Tot Ion: 56 Resp: 1196

Ion Ratio Lower Upper

56 100

69 49.2 25.3 37.9#

84 28.3 71.0 106.4#



#33

1,2-Dichloroethane-d4

Concen: 17.847 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.00 min

Lab File: VF062643.D

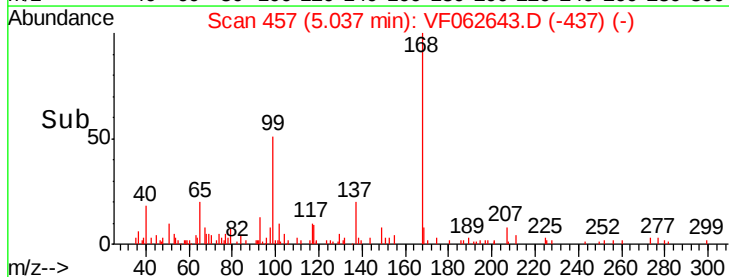
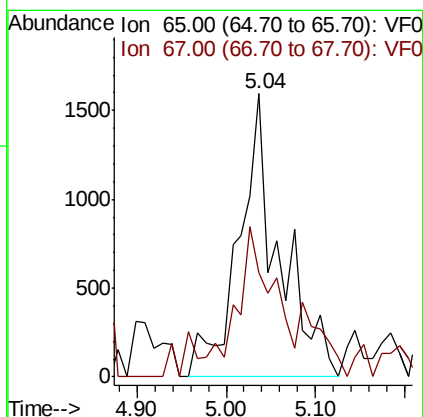
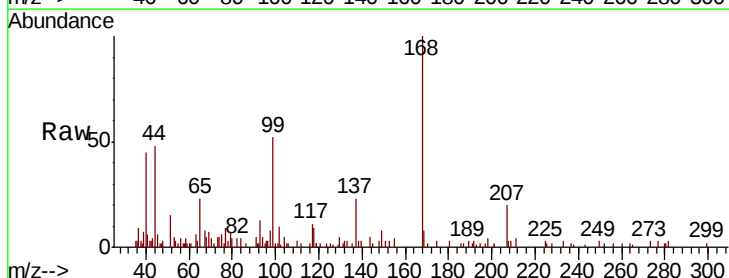
Acq: 17 May 2019 17:27

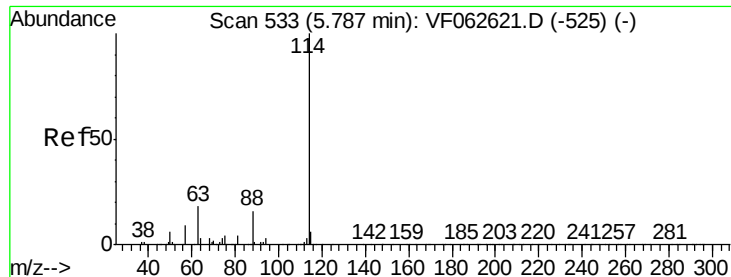
Tgt Ion: 65 Resp: 5017

Ion Ratio Lower Upper

65 100

67 36.6 0.0 117.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampleId :

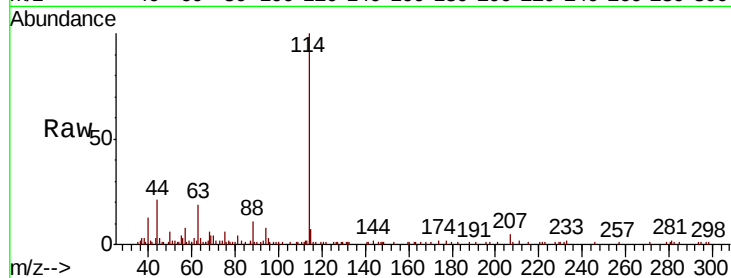
Tot Ion:114 Resp: 48494

Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.4

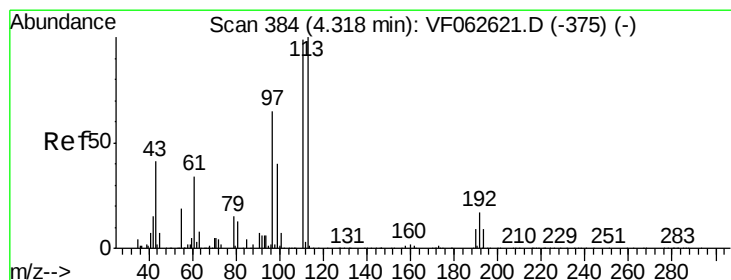
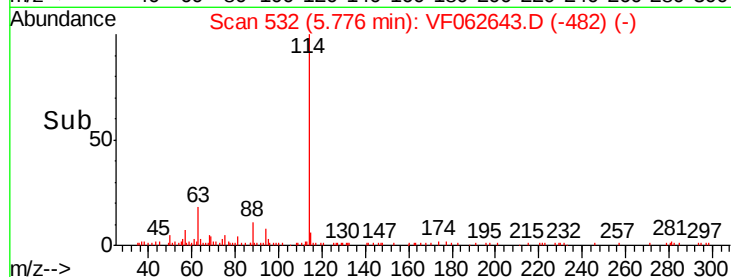
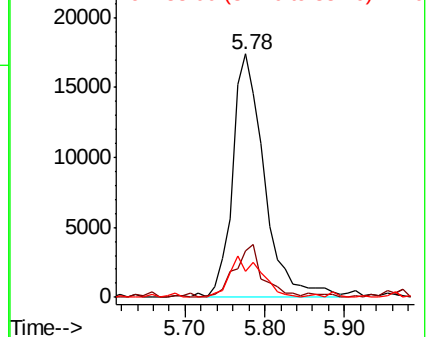
88 10.9 0.0 32.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 11.663 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.02 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

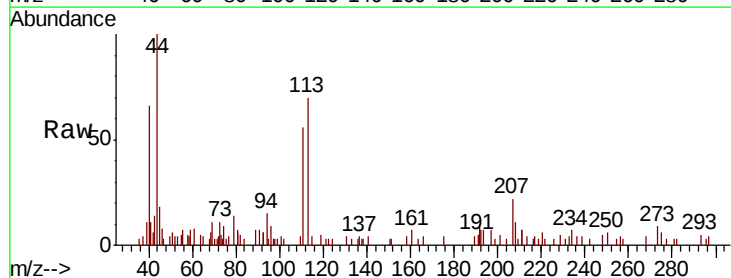
Tgt Ion:113 Resp: 4328

Ion Ratio Lower Upper

113 100

111 80.4 79.4 119.2

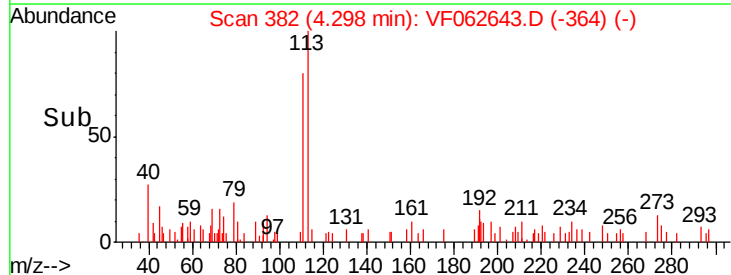
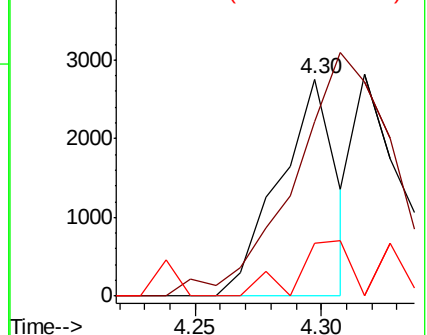
192 24.1 13.4 20.2#

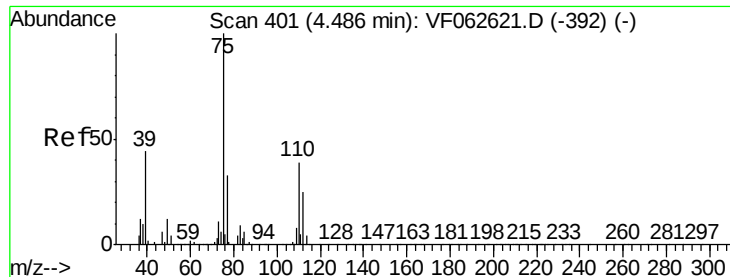


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 1.636 ug/l

RT: 4.47 min Scan# 399

Delta R.T. -0.02 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampled :

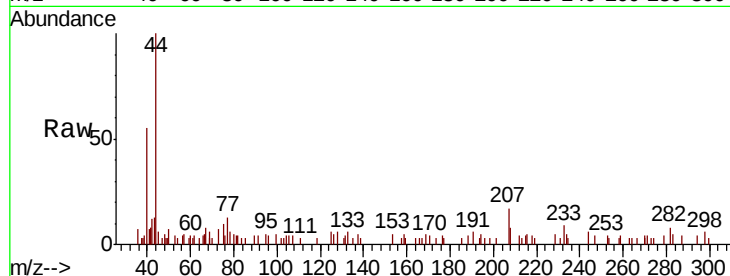
Tot Ion: 75 Resp: 813

Ion Ratio Lower Upper

75 100

110 0.0 19.7 59.1#

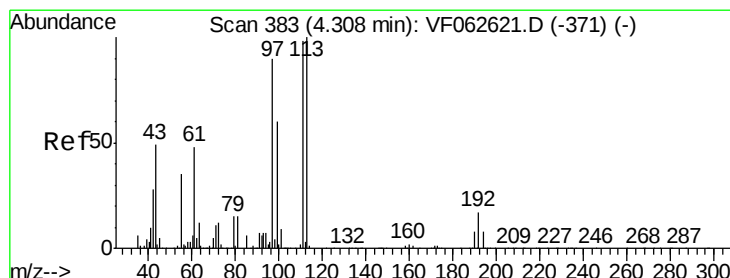
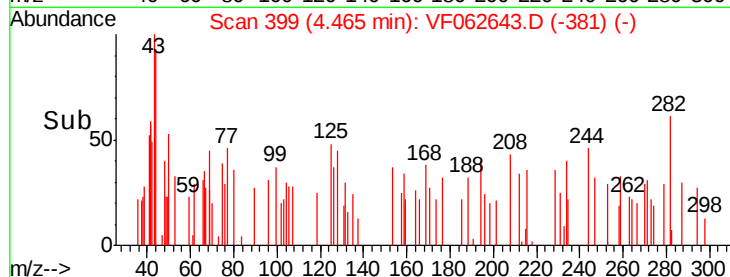
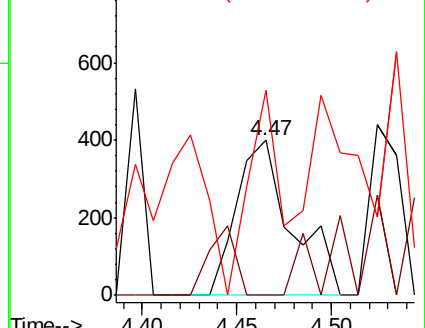
77 132.0 26.3 39.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 4.929 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

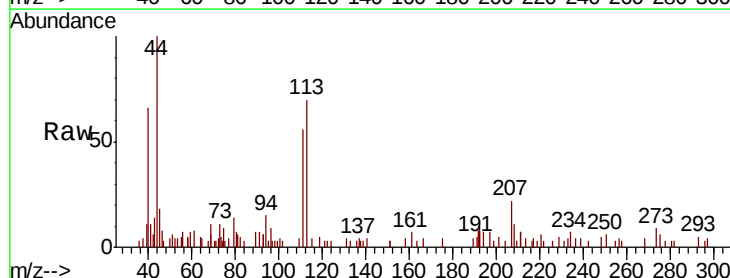
Tgt Ion: 43 Resp: 1000

Ion Ratio Lower Upper

43 100

61 58.0 76.9 115.3#

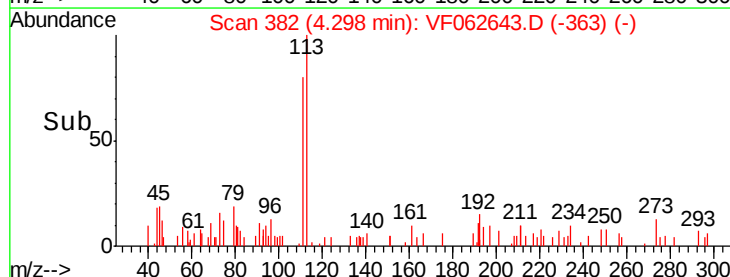
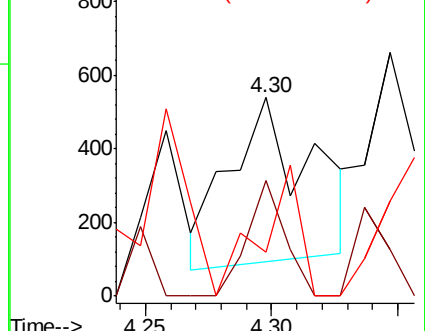
70 22.1 8.8 13.2#

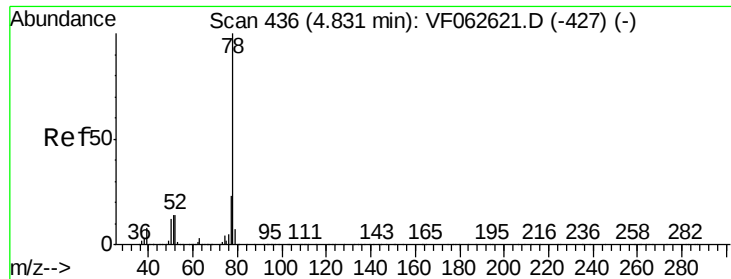


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#40

Benzene

Concen: 1.260 ug/l

RT: 4.79 min Scan# 432

Delta R.T. -0.04 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

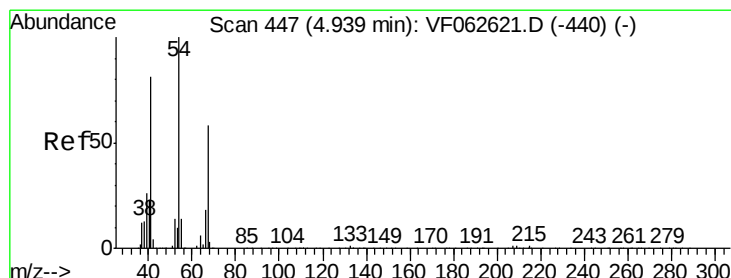
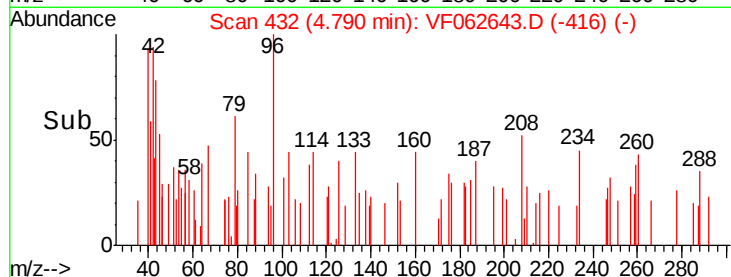
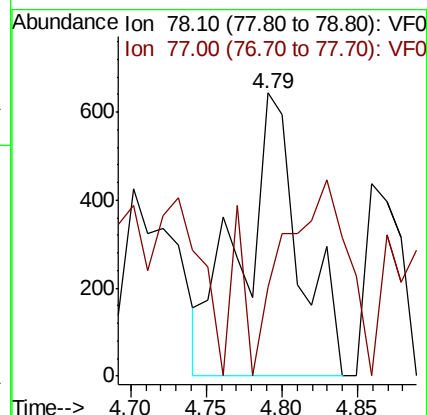
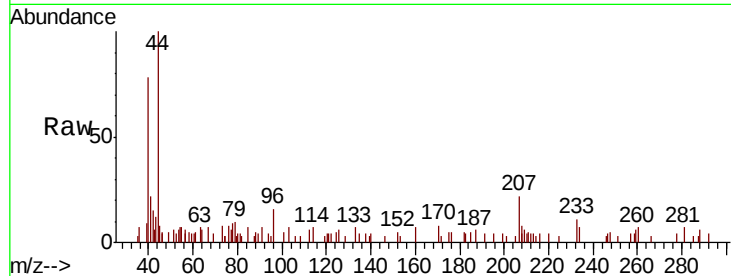
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 78 Resp: 1706

Ion Ratio Lower Upper

78 100

77 31.3 18.2 27.2#



#41

Methacrylonitrile

Concen: 3.751 ug/l

RT: 4.93 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Tgt Ion: 41 Resp: 399

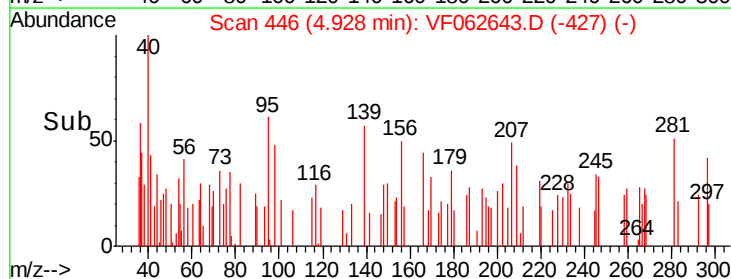
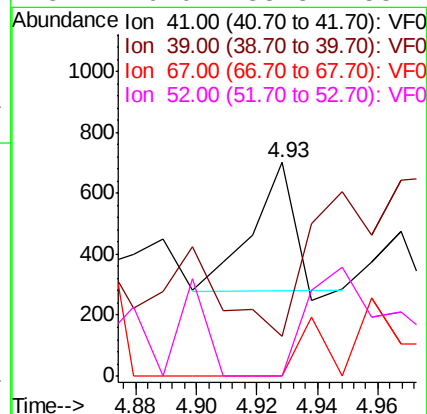
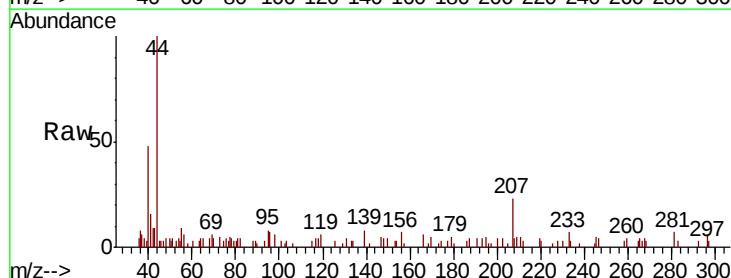
Ion Ratio Lower Upper

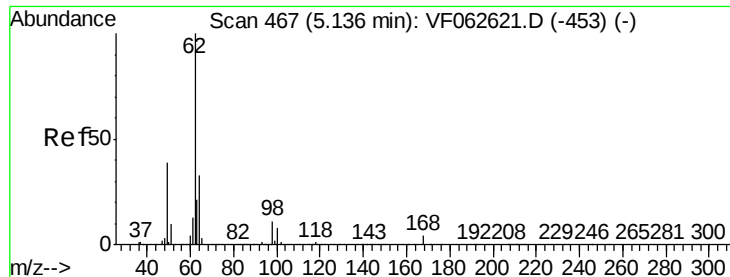
41 100

39 18.4 42.2 63.2#

67 0.0 56.4 84.6#

52 0.0 38.8 58.2#





#42

1,2-Dichloroethane

Concen: 1.159 ug/l

RT: 5.23 min Scan# 477

Delta R.T. 0.10 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

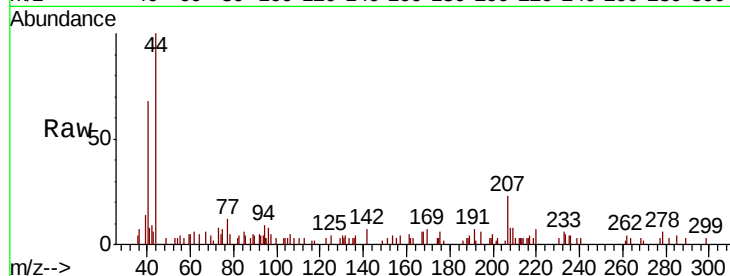
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 62 Resp: 313

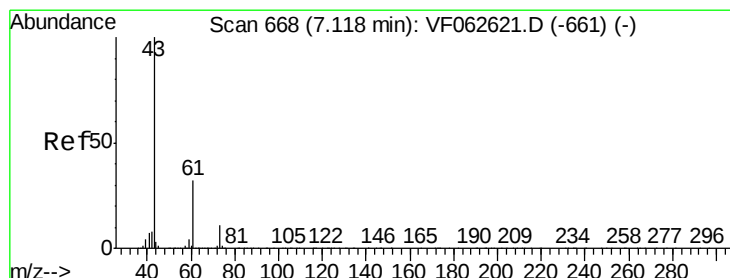
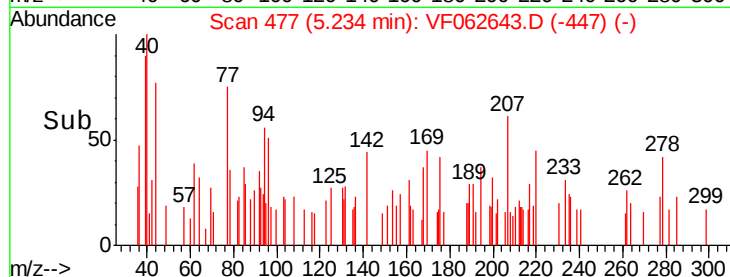
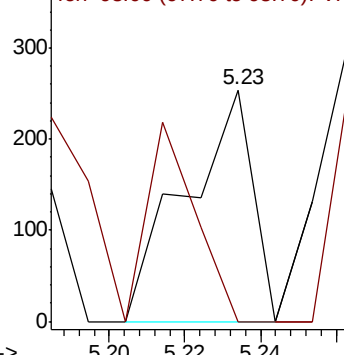
Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.6



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



#43

Isopropyl Acetate

Concen: 3.884 ug/l

RT: 7.09 min Scan# 665

Delta R.T. -0.03 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

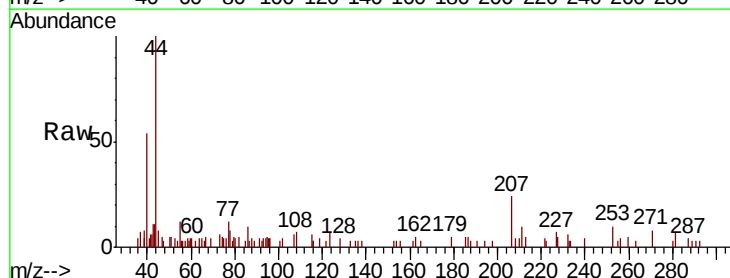
Tgt Ion: 43 Resp: 1021

Ion Ratio Lower Upper

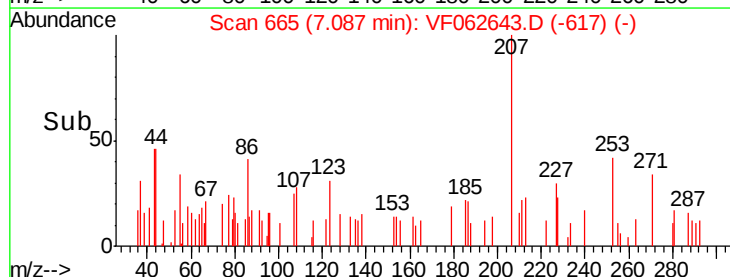
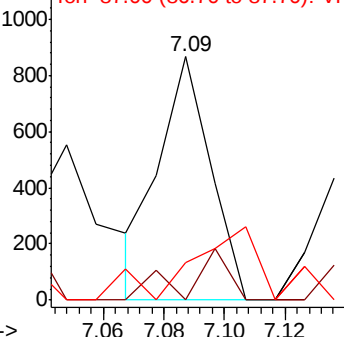
43 100

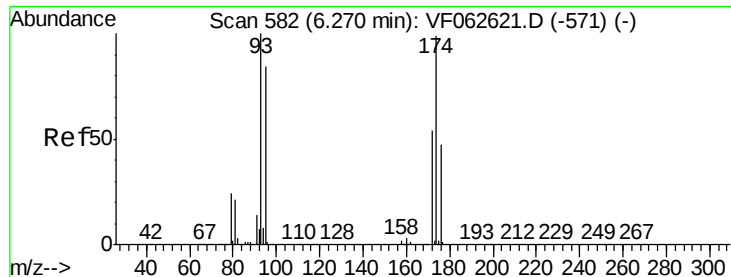
61 0.0 25.8 38.8#

87 15.3 0.4 0.6#



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





#46

Dibromomethane

Concen: 1.635 ug/l

RT: 6.31 min Scan# 586

Delta R.T. 0.04 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampled :

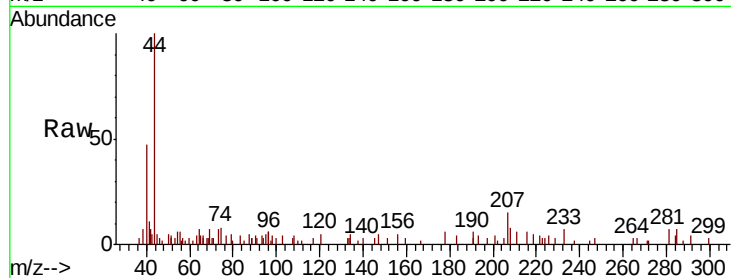
Tot Ion: 93 Resp: 323

Ion Ratio Lower Upper

93 100

95 138.4 67.4 101.2#

174 0.0 79.4 119.2#

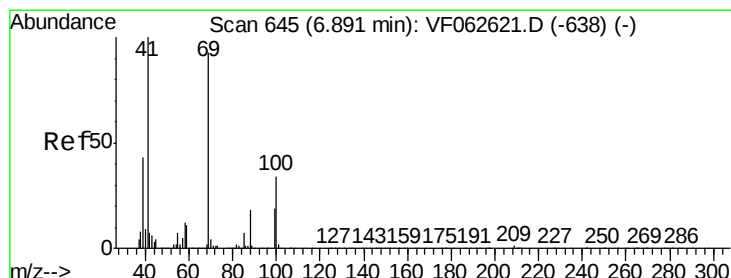
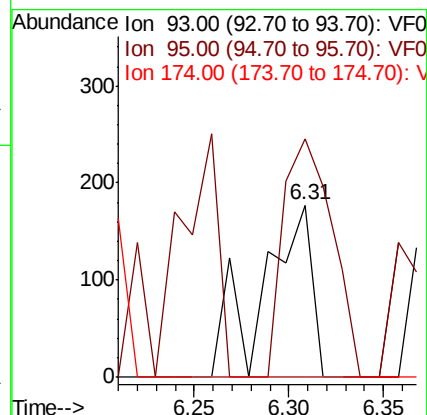
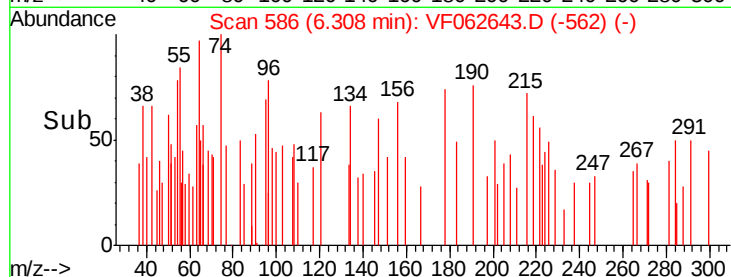


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Time-->



#48

Methyl methacrylate

Concen: 8.989 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.02 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

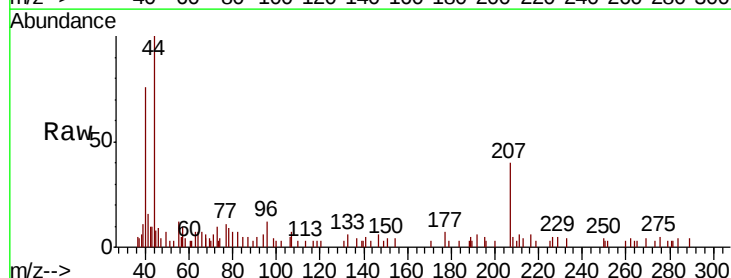
Tgt Ion: 41 Resp: 1235

Ion Ratio Lower Upper

41 100

69 26.7 74.2 111.2#

39 67.5 34.2 51.4#

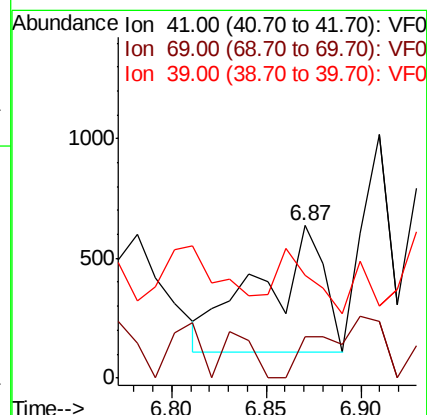
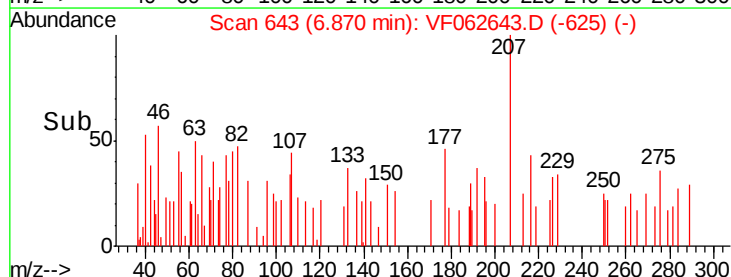


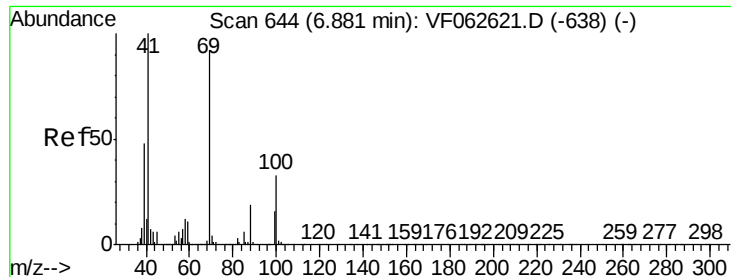
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Time-->

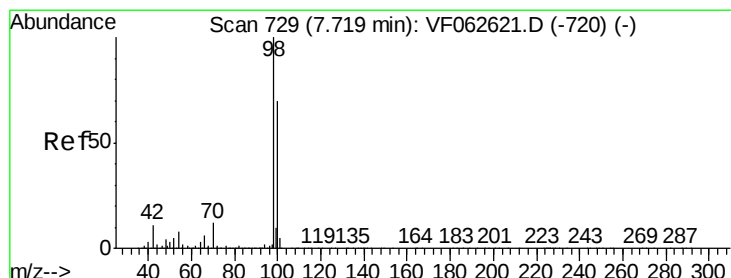
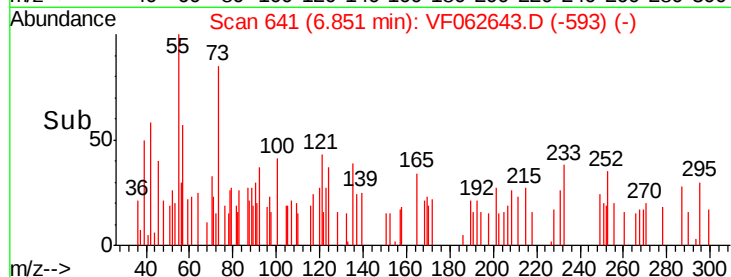
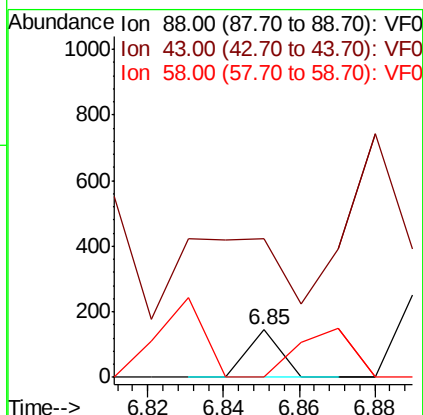
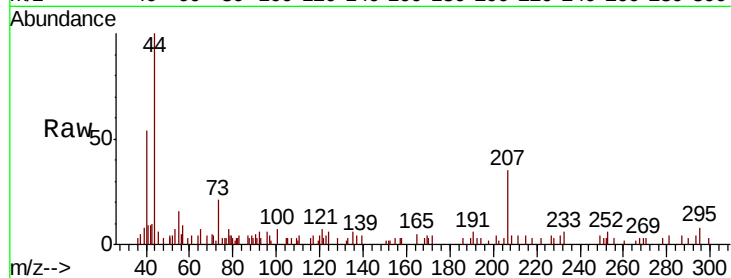




#49
1,4-Dioxane
Concen: 48.305 ug/l
RT: 6.85 min Scan# 641
Delta R.T. -0.03 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

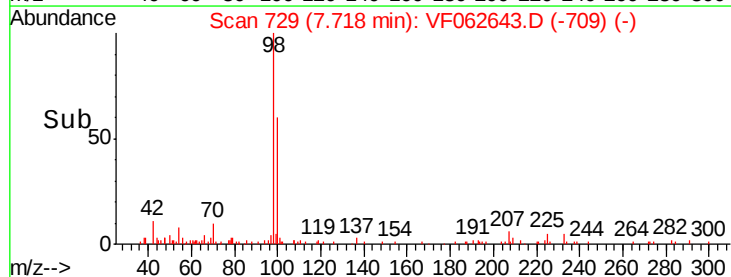
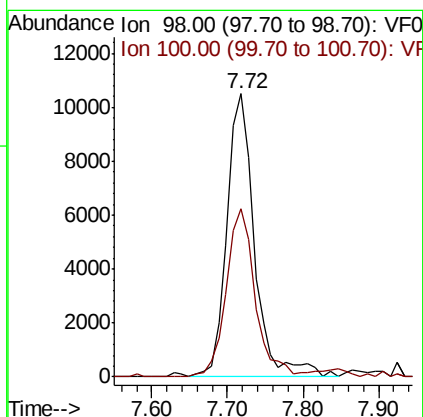
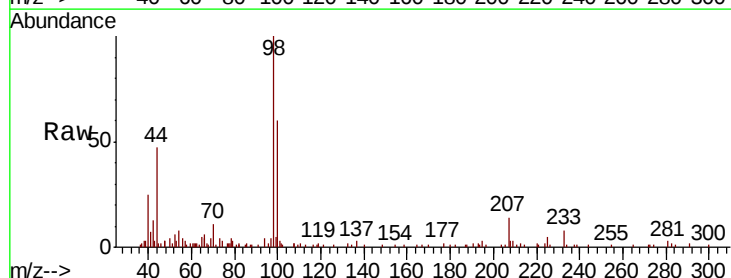
Instrument :
MSVOA_F
ClientSampleId :

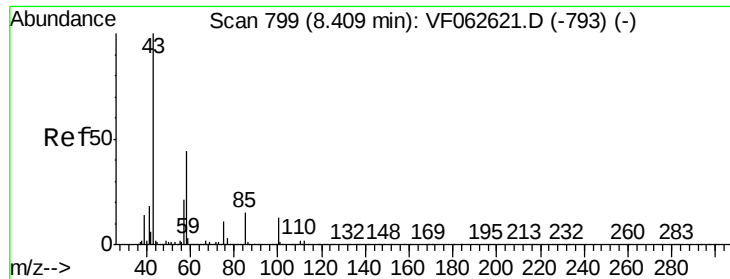
Tot Ion: 88 Resp: 85
Ion Ratio Lower Upper
88 100
43 294.4 30.0 45.0#
58 0.0 51.1 76.7#



#50
Toluene-d8
Concen: 29.912 ug/l
RT: 7.72 min Scan# 729
Delta R.T. -0.00 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

Tgt Ion: 98 Resp: 26502
Ion Ratio Lower Upper
98 100
100 59.6 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 4.057 ug/l

RT: 8.55 min Scan# 813

Delta R.T. 0.14 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

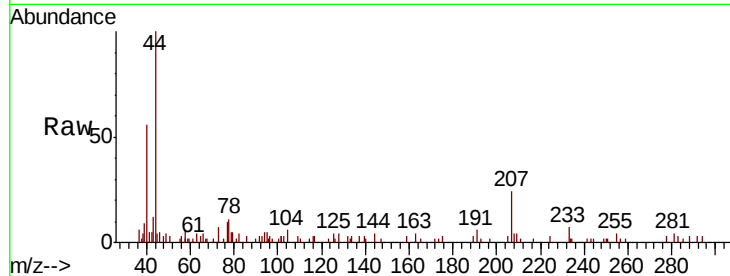
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 729

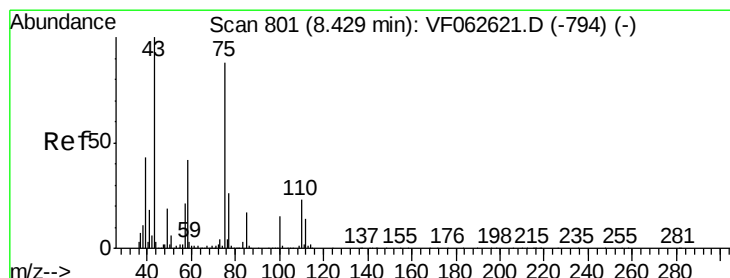
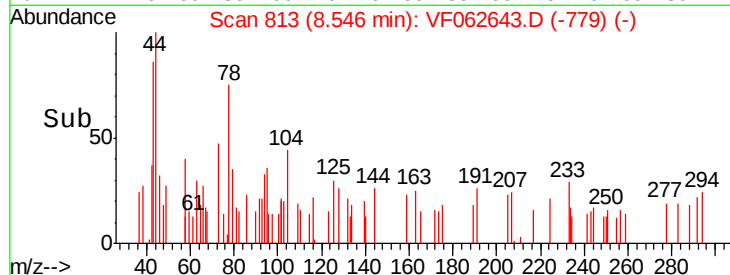
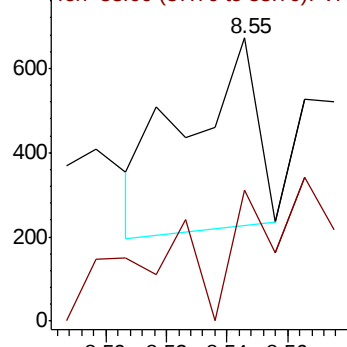
Ion Ratio Lower Upper

43 100

58 46.1 34.9 52.3



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



#53

t-1,3-Dichloropropene

Concen: 2.934 ug/l

RT: 8.38 min Scan# 796

Delta R.T. -0.05 min

Lab File: VF062643.D

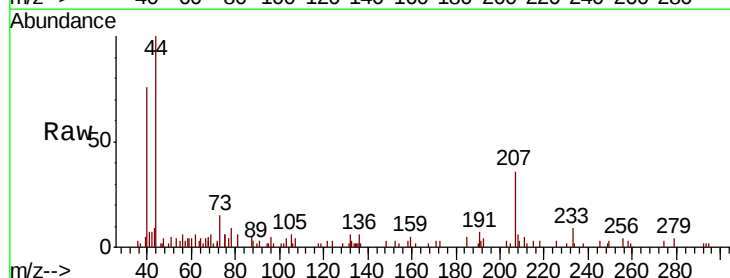
Acq: 17 May 2019 17:27

Tgt Ion: 75 Resp: 984

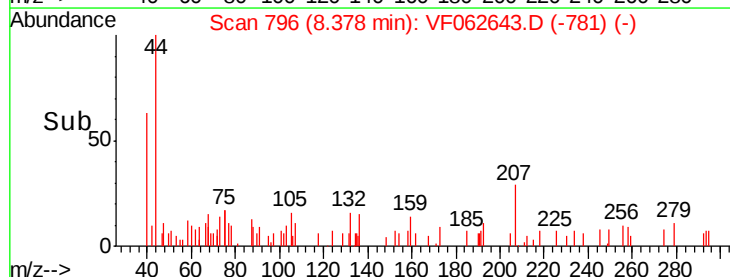
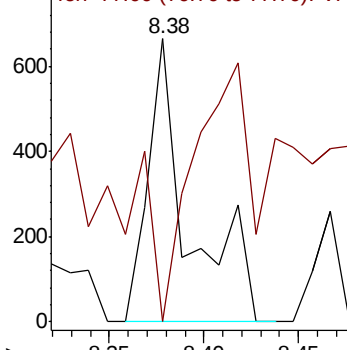
Ion Ratio Lower Upper

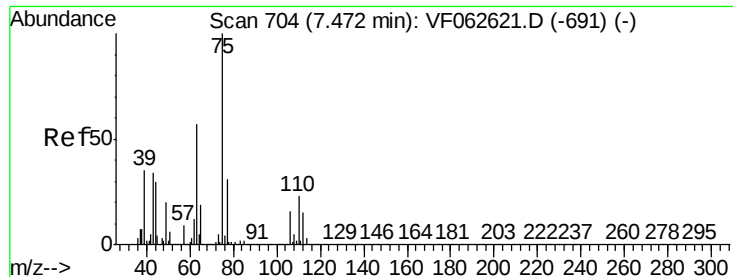
75 100

77 0.0 24.2 36.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 1.097 ug/l

RT: 7.49 min Scan# 706

Delta R.T. 0.02 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :
MSVOA_F
ClientSampleId :

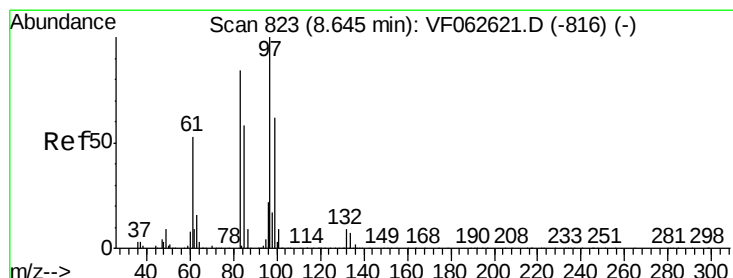
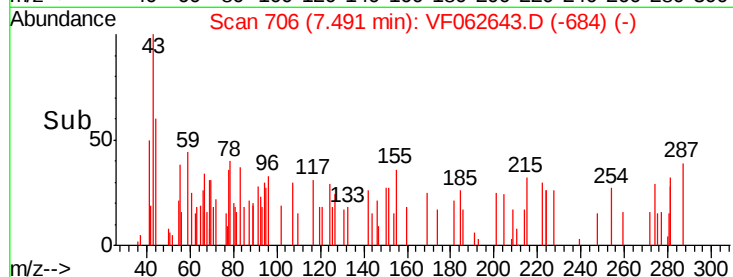
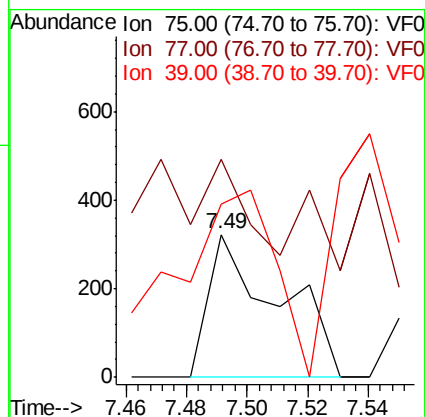
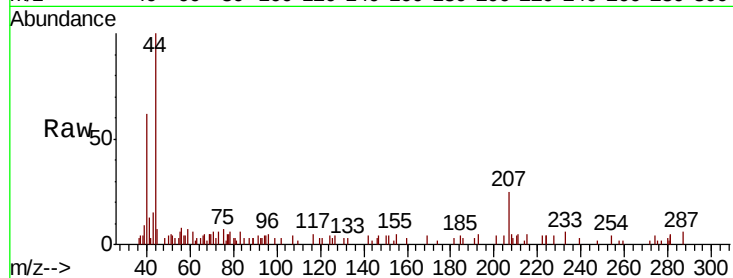
Tot Ion: 75 Resp: 515

Ion Ratio Lower Upper

75 100

77 152.8 25.3 37.9#

39 121.7 28.2 42.2#



#55

1,1,2-Trichloroethane

Concen: 2.702 ug/l

RT: 8.61 min Scan# 820

Delta R.T. -0.03 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Tgt Ion: 97 Resp: 568

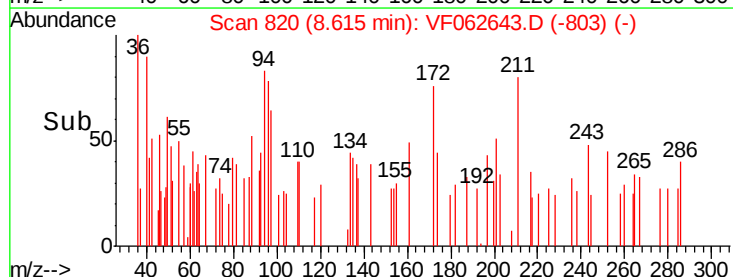
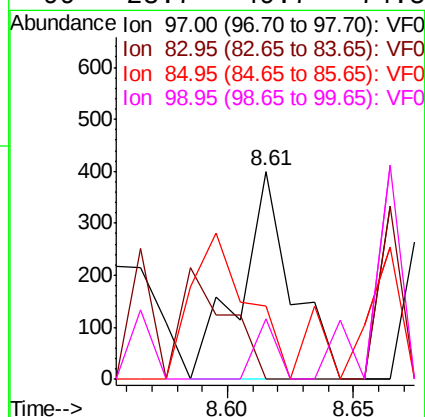
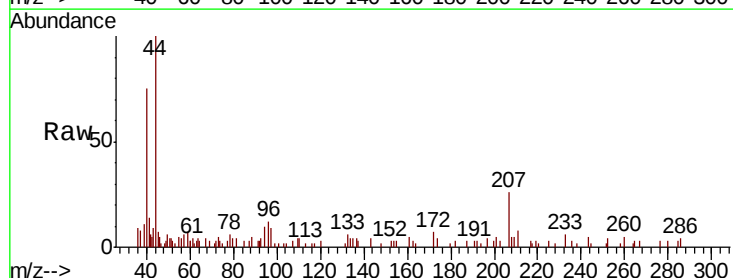
Ion Ratio Lower Upper

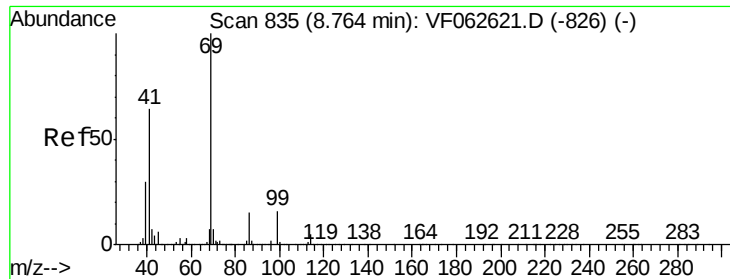
97 100

83 0.0 67.3 100.9#

85 35.5 46.6 69.8#

99 28.7 49.7 74.5#





#56

Ethyl methacrylate

Concen: 6.381 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :
MSVOA_F
ClientSampled :

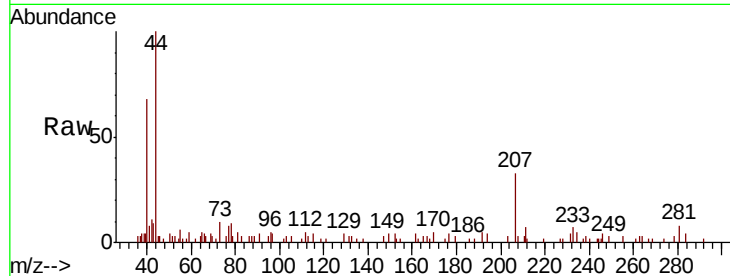
Tot Ion: 69 Resp: 1598

Ion Ratio Lower Upper

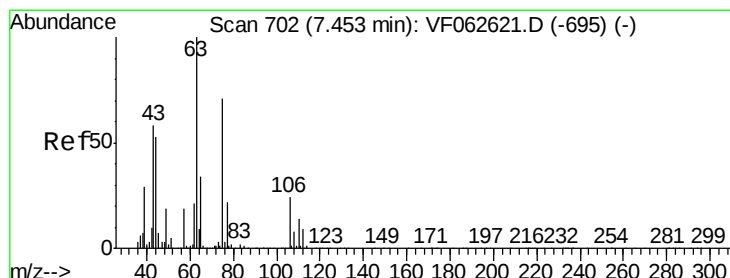
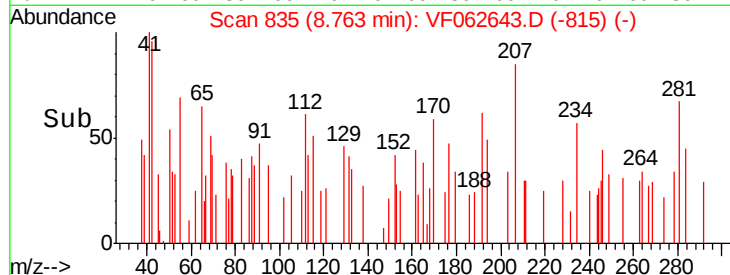
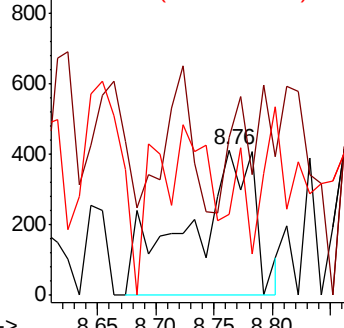
69 100

41 108.0 51.4 77.2#

39 55.7 23.6 35.4#



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



#58

2-Chloroethyl Vinyl ether

Concen: 5.913 ug/l

RT: 7.39 min Scan# 696

Delta R.T. -0.06 min

Lab File: VF062643.D

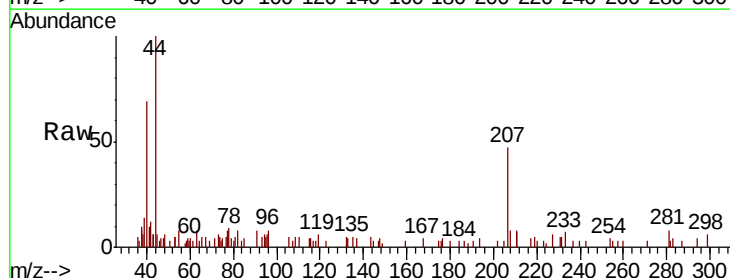
Acq: 17 May 2019 17:27

Tgt Ion: 63 Resp: 482

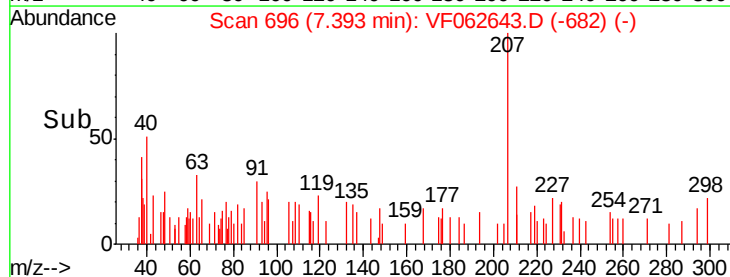
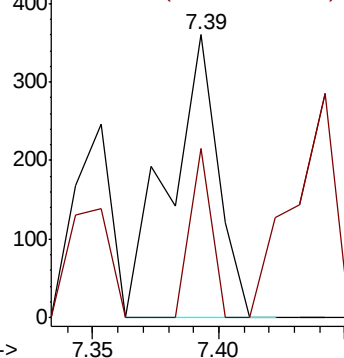
Ion Ratio Lower Upper

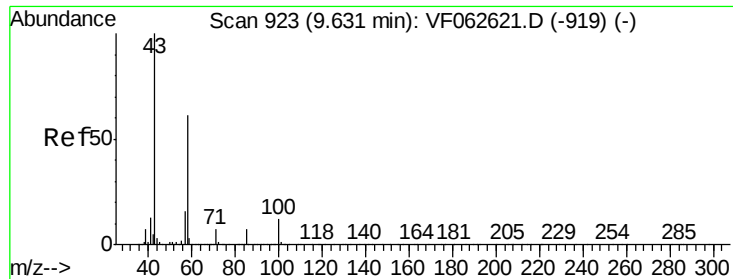
63 100

106 60.0 19.1 28.7#



Abundance Ion 63.00 (62.70 to 63.70): VF0
Ion 106.00 (105.70 to 106.70): V

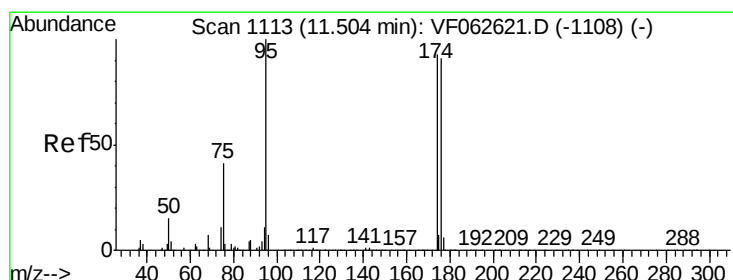
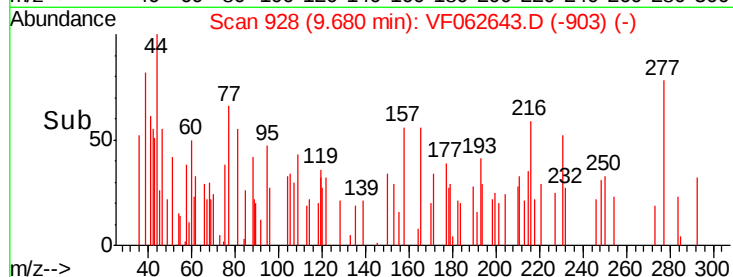
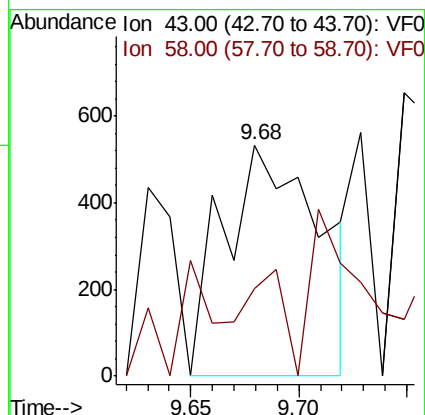
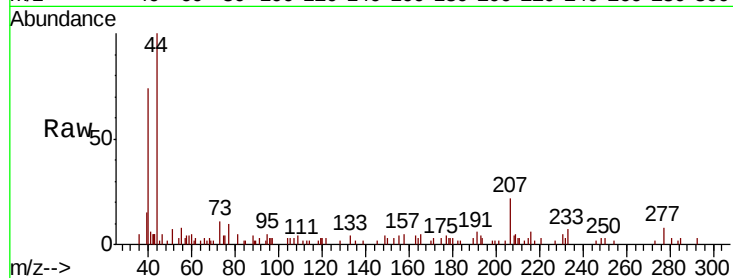




#59
2-Hexanone
Concen: Below Cal
RT: 9.68 min Scan# 928
Delta R.T. 0.05 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

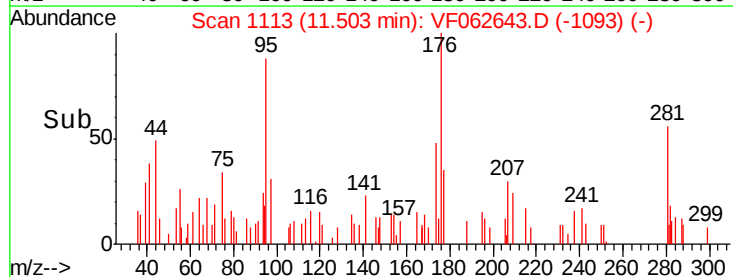
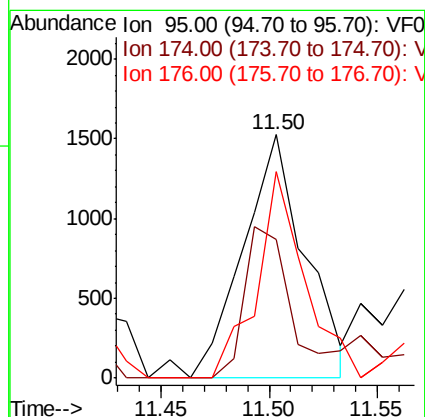
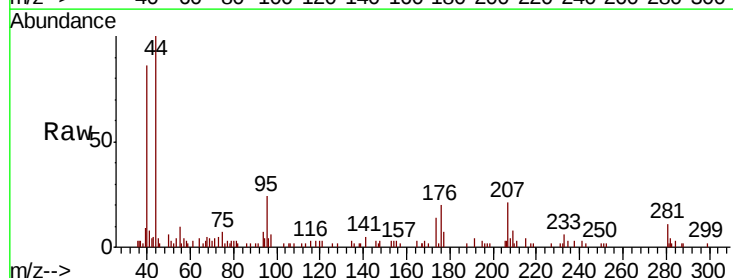
Instrument :
MSVOA_F
ClientSampled :

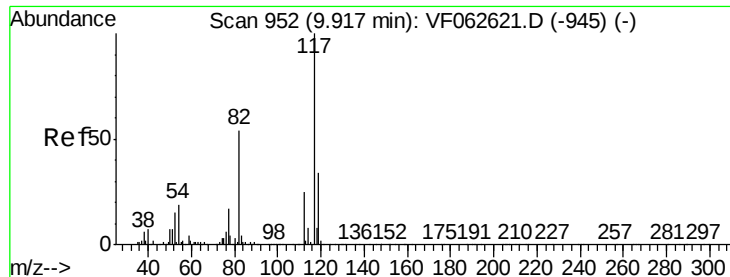
Tot Ion: 43 Resp: 1647
Ion Ratio Lower Upper
43 100
58 37.7 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 8.984 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

Tgt Ion: 95 Resp: 3019
Ion Ratio Lower Upper
95 100
174 56.9 0.0 185.6
176 85.1 0.0 182.4

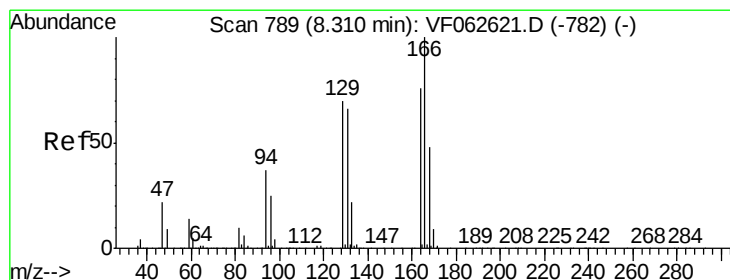
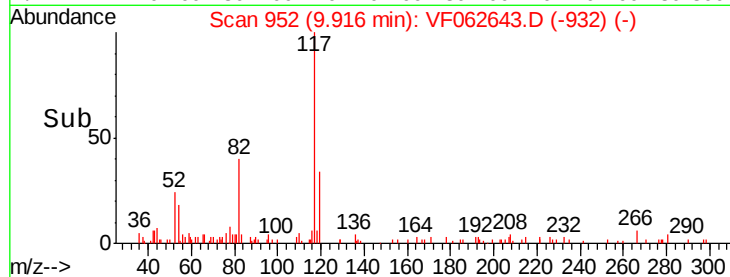
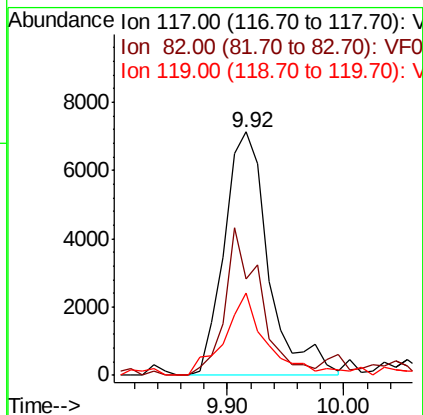
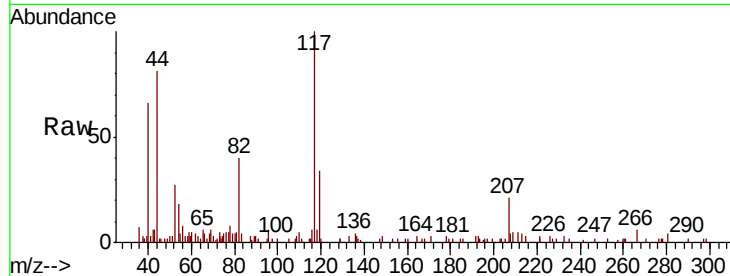




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.00 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

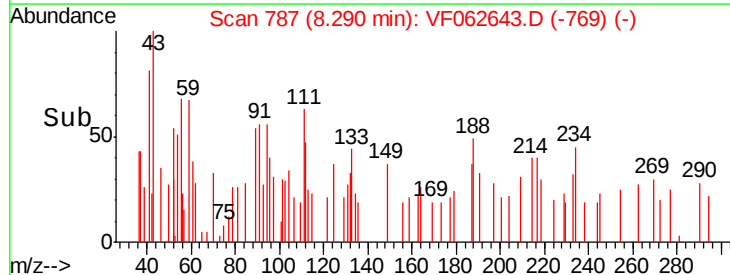
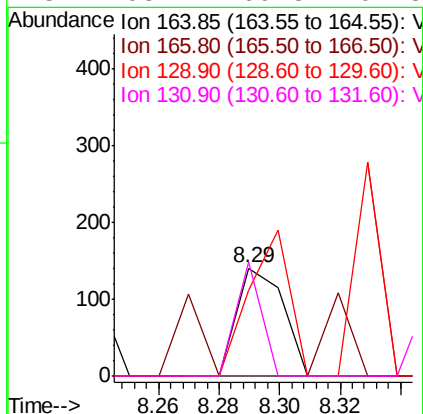
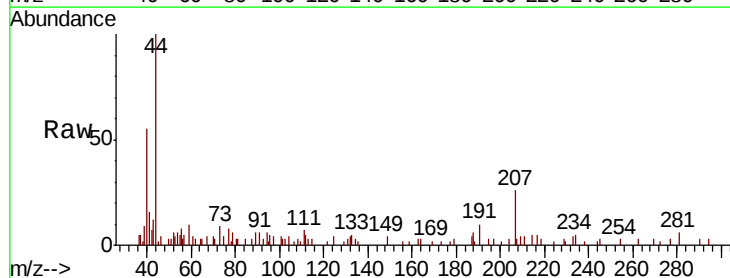
Instrument :
MSVOA_F
ClientSampleId :

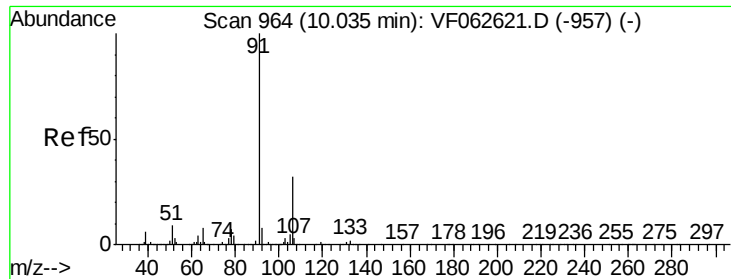
Tot Ion	Ratio	Lower	Upper
117	100		
82	39.7	43.3	64.9#
119	33.9	27.4	41.0



#64
Tetrachloroethene
Concen: 1.017 ug/l
RT: 8.29 min Scan# 787
Delta R.T. -0.02 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	0.0	105.5	158.3#
129	79.4	73.8	110.6
131	105.7	69.5	104.3#





#67

Ethyl Benzene

Concen: 2.348 ug/l

RT: 10.03 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

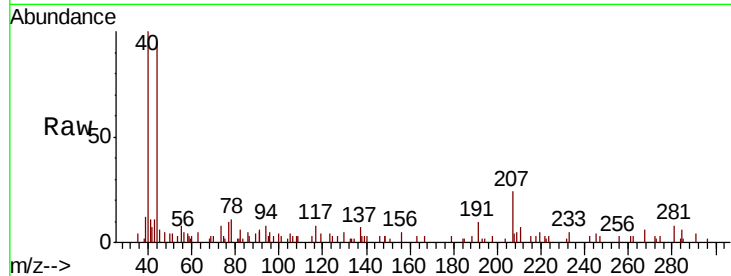
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 91 Resp: 1501

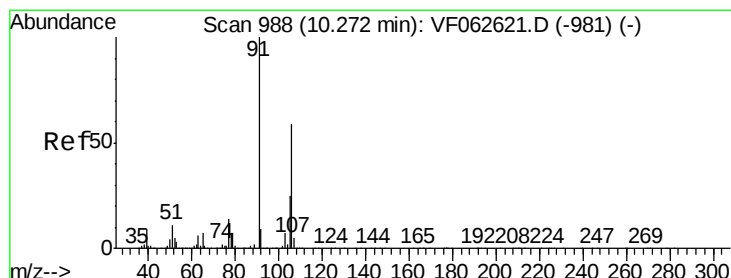
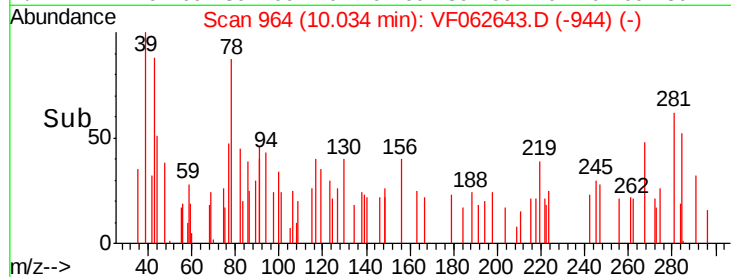
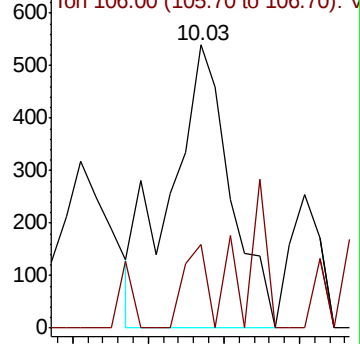
Ion Ratio Lower Upper

91 100

106 29.5 25.8 38.8



Abundance Ion 91.00 (90.70 to 91.70): VF0



#68

m/p-Xylenes

Concen: 3.492 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF062643.D

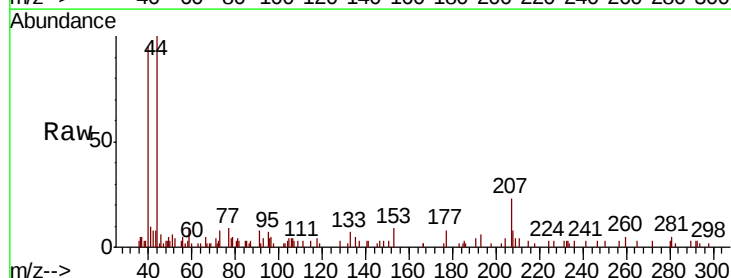
Acq: 17 May 2019 17:27

Tgt Ion: 106 Resp: 839

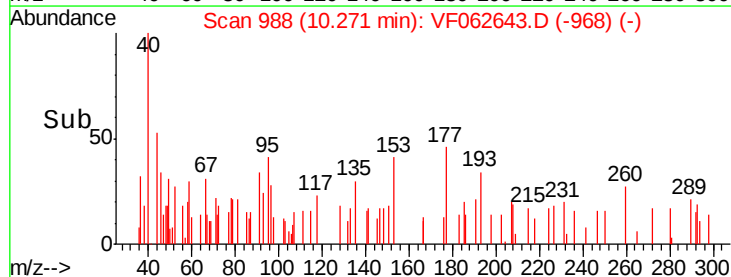
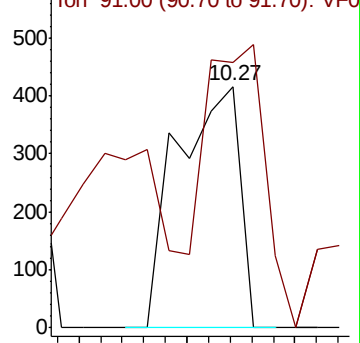
Ion Ratio Lower Upper

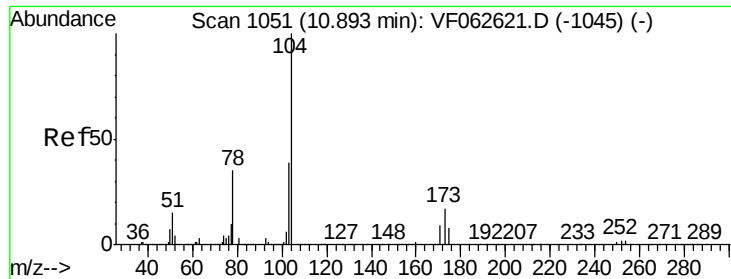
106 100

91 109.9 136.9 205.3#



Abundance Ion 106.00 (105.70 to 106.70): V

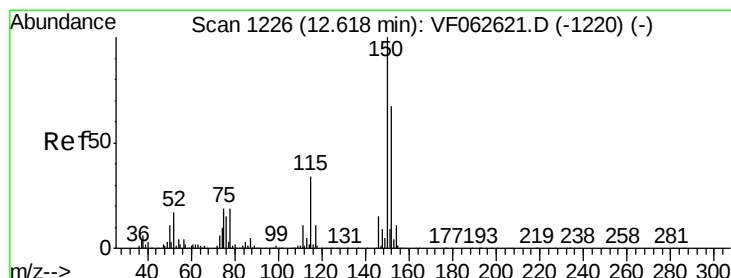
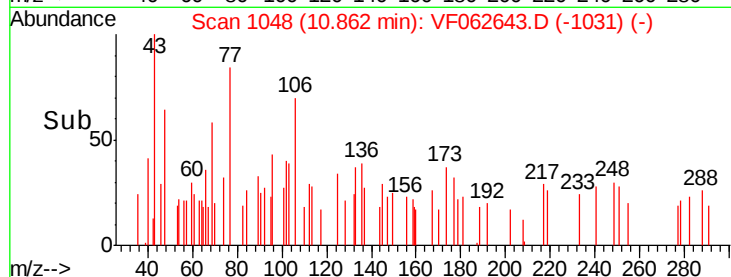
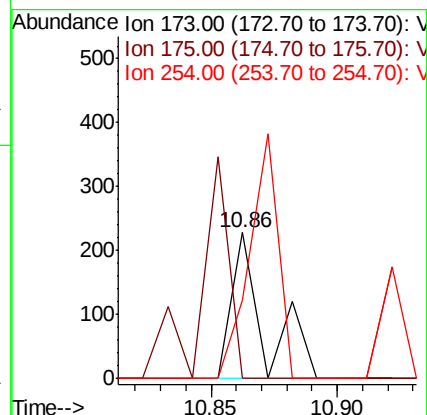
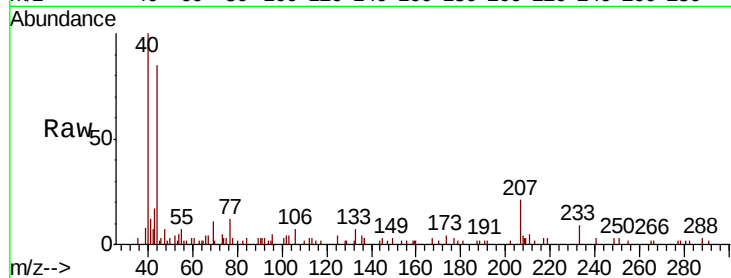




#71
Bromoform
Concen: 2.771 ug/l
RT: 10.86 min Scan# 1048
Delta R.T. -0.03 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

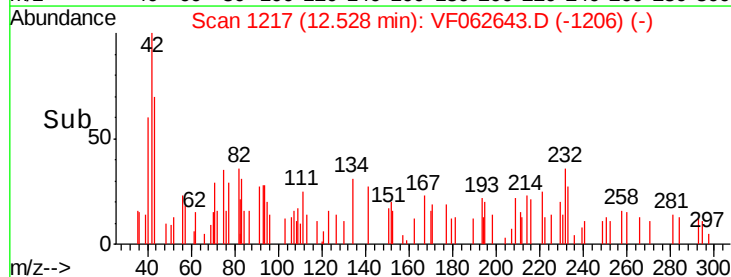
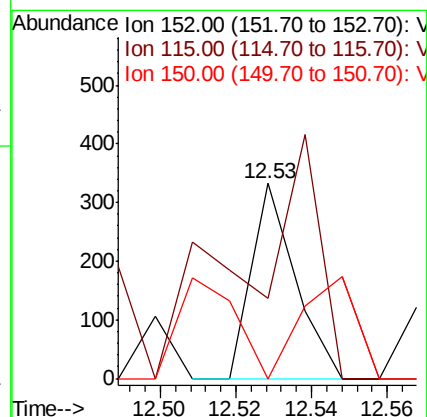
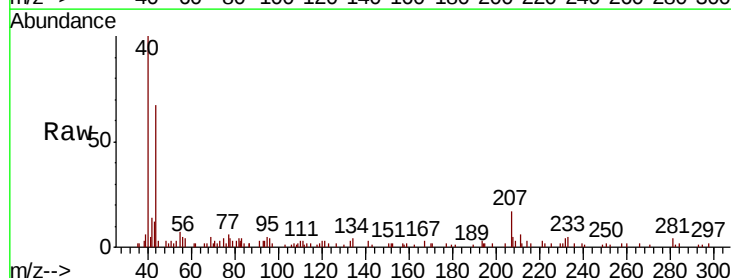
Instrument :
MSVOA_F
ClientSampled :

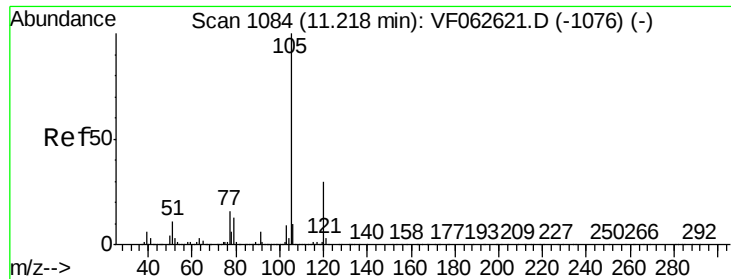
Tot Ion:173 Resp: 205
Ion Ratio Lower Upper
173 100
175 0.0 25.3 75.9#
254 53.7 0.2 0.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.53 min Scan# 1217
Delta R.T. -0.09 min
Lab File: VF062643.D
Acq: 17 May 2019 17:27

Tgt Ion:152 Resp: 264
Ion Ratio Lower Upper
152 100
115 41.1 25.2 75.6
150 0.0 0.0 306.2





#73

Isopropylbenzene

Concen: 70.978 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

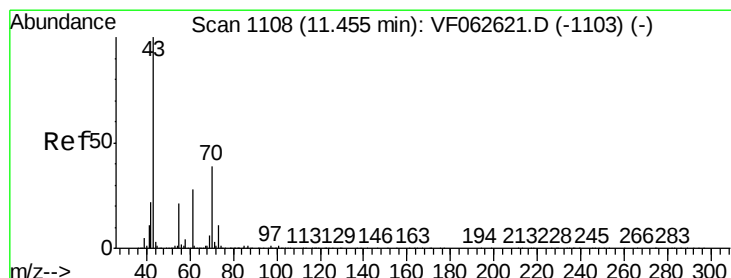
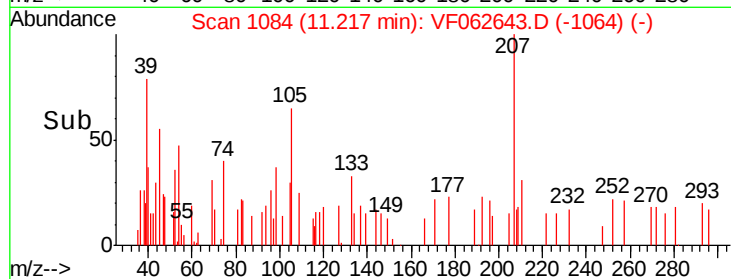
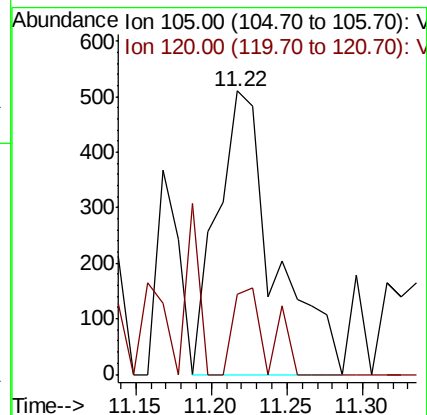
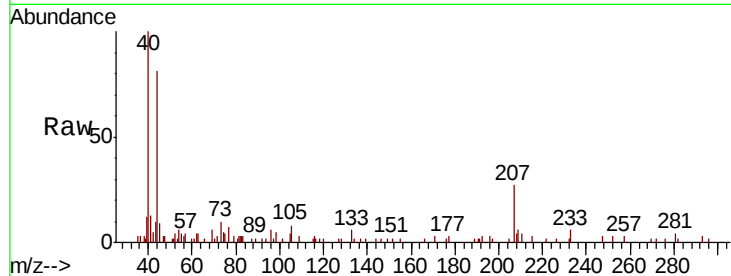
ClientSampled :

Tot Ion:105 Resp: 1343

Ion Ratio Lower Upper

105 100

120 28.2 14.8 44.4



#74

N-ethyl acetate

Concen: 199.554 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Tgt Ion: 43 Resp: 883

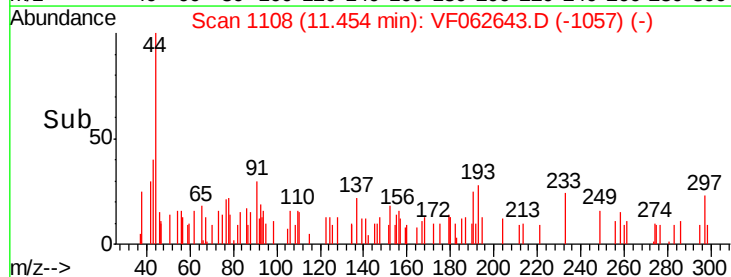
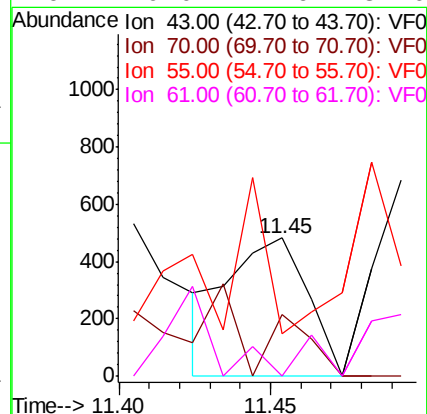
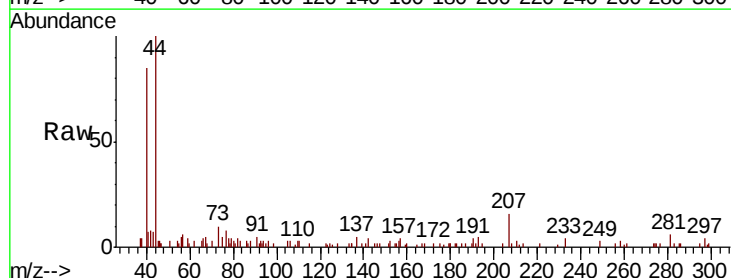
Ion Ratio Lower Upper

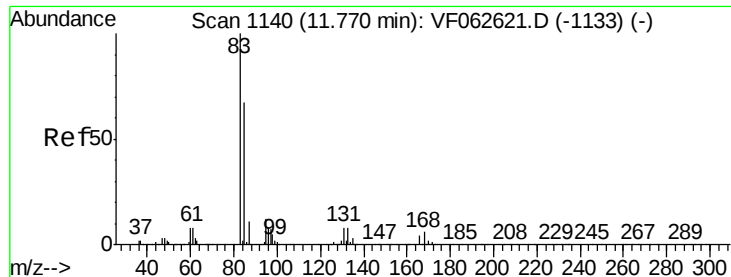
43 100

70 44.8 30.9 46.3

55 30.7 17.0 25.4#

61 0.0 22.6 34.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 225.249 ug/l

RT: 11.74 min Scan# 1137

Delta R.T. -0.03 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampleId :

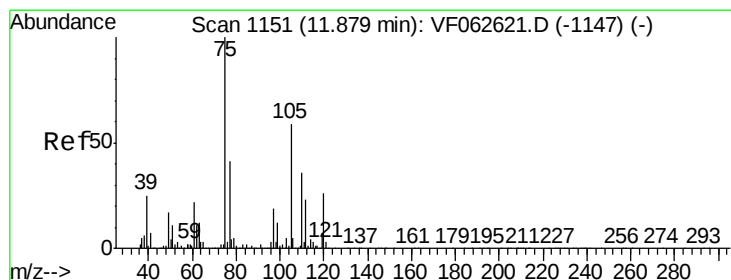
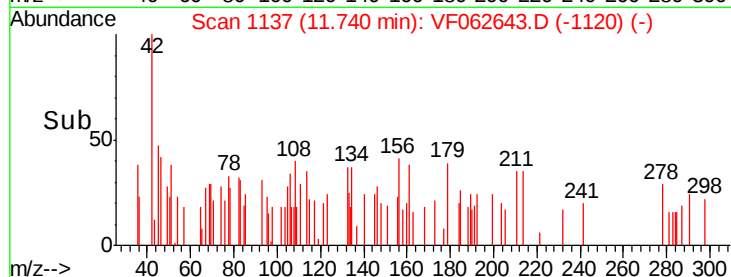
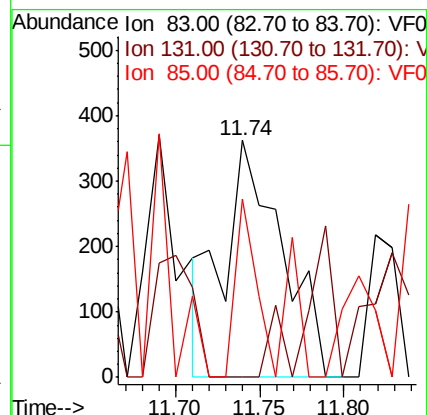
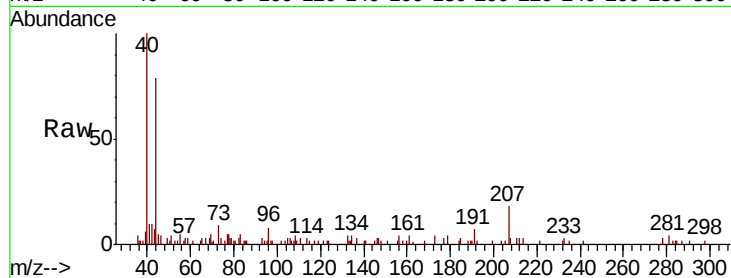
Tot Ion: 83 Resp: 871

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

85 75.4 33.5 100.5



#76

1,2,3-Trichloropropane

Concen: 91.312 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.00 min

Lab File: VF062643.D

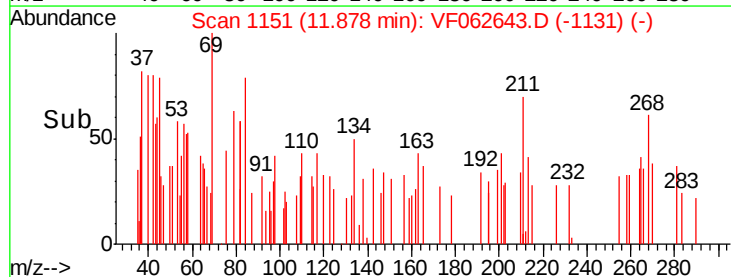
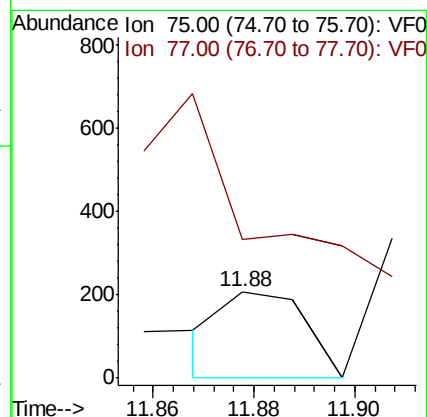
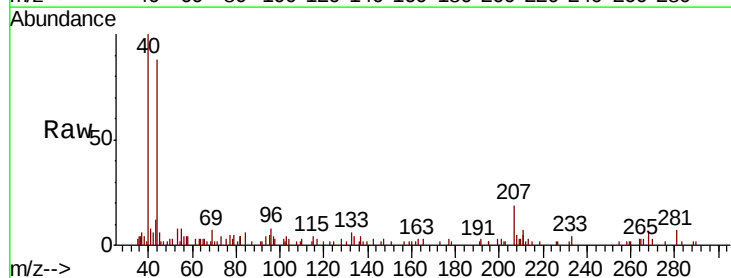
Acq: 17 May 2019 17:27

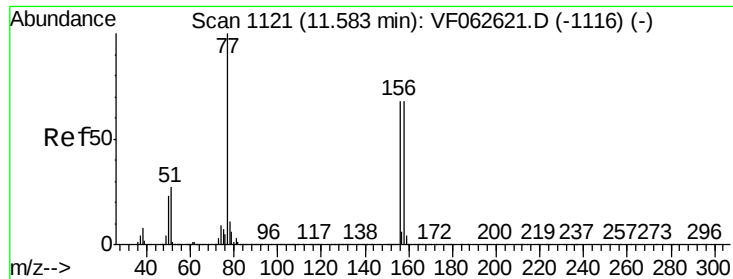
Tgt Ion: 75 Resp: 232

Ion Ratio Lower Upper

75 100

77 161.0 20.6 61.8#





#77

Bromobenzene

Concen: 71.865 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. 0.03 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampleId :

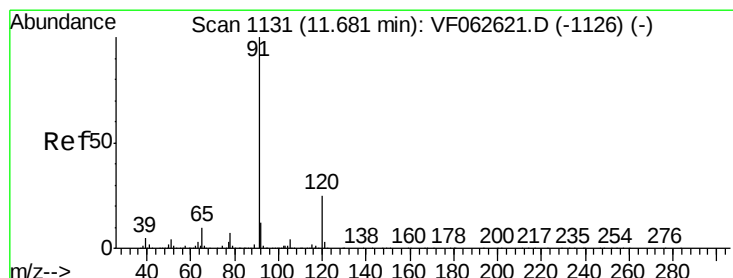
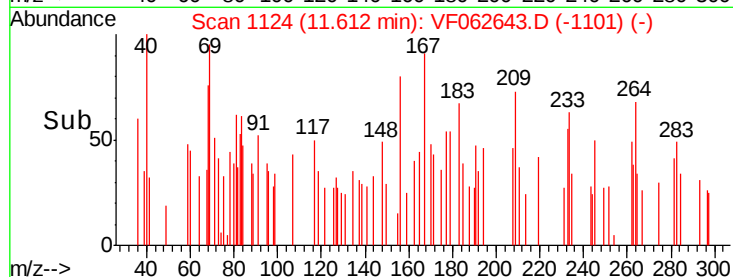
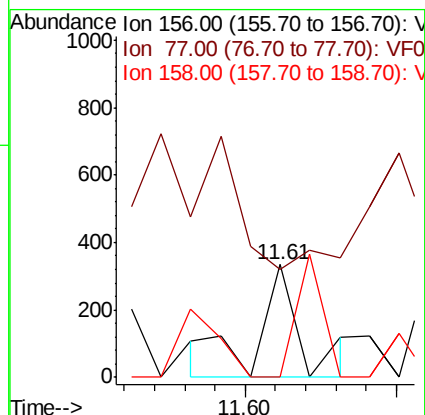
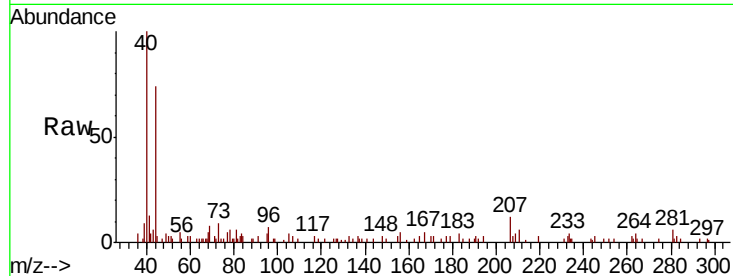
Tot Ion:156 Resp: 338

Ion Ratio Lower Upper

156 100

77 96.1 73.6 220.8

158 0.0 49.6 148.8#



#78

n-propylbenzene

Concen: 17.818 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.14 min

Lab File: VF062643.D

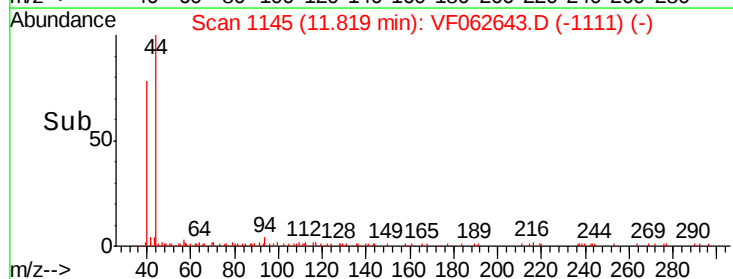
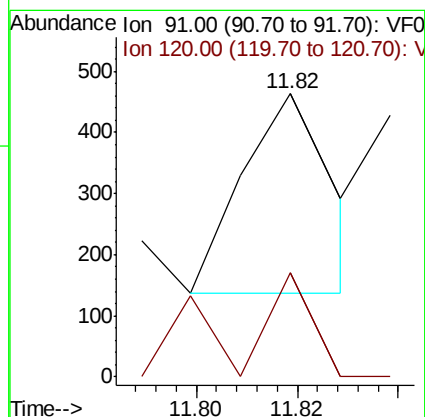
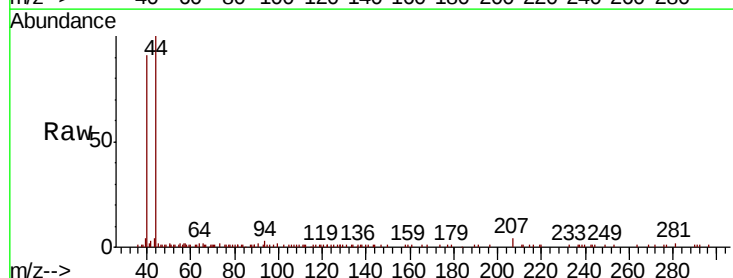
Acq: 17 May 2019 17:27

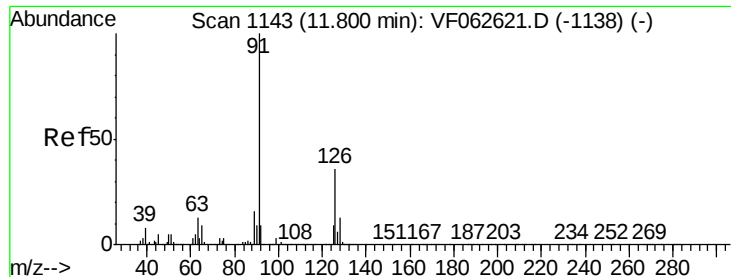
Tgt Ion: 91 Resp: 399

Ion Ratio Lower Upper

91 100

120 36.7 12.7 38.1





#79

2-Chlorotoluene

Concen: 88.274 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.02 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

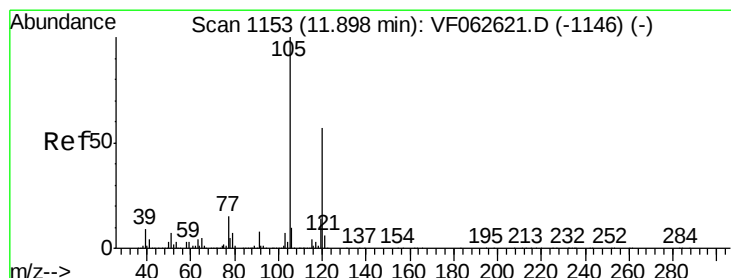
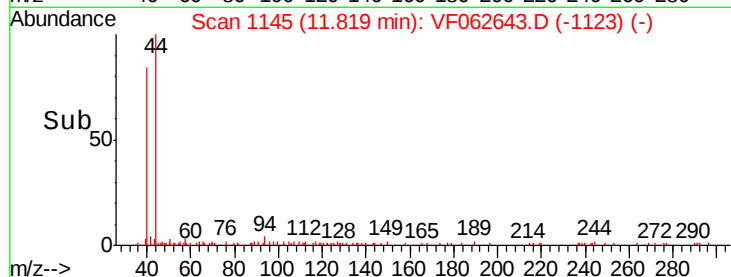
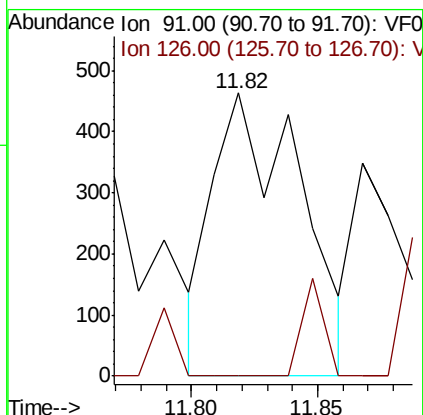
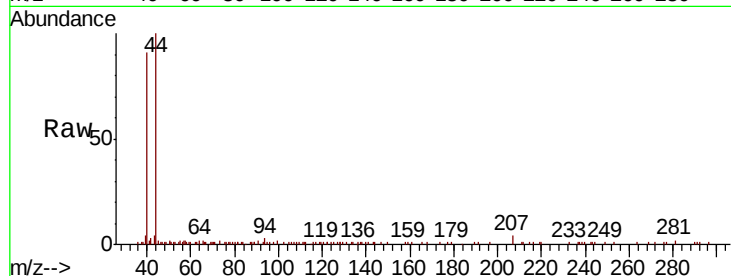
ClientSampled :

Tot Ion: 91 Resp: 1114

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#80

1,3,5-Trimethylbenzene

Concen: 21.157 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.08 min

Lab File: VF062643.D

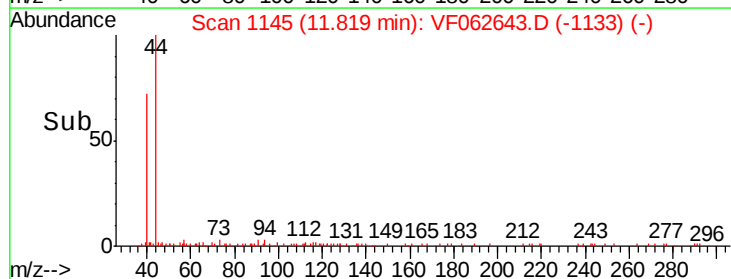
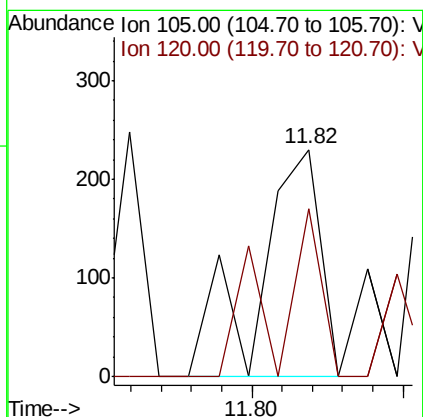
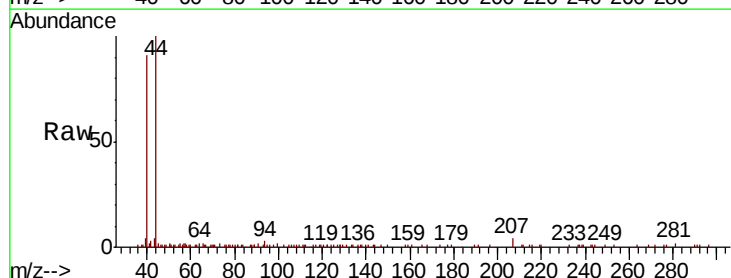
Acq: 17 May 2019 17:27

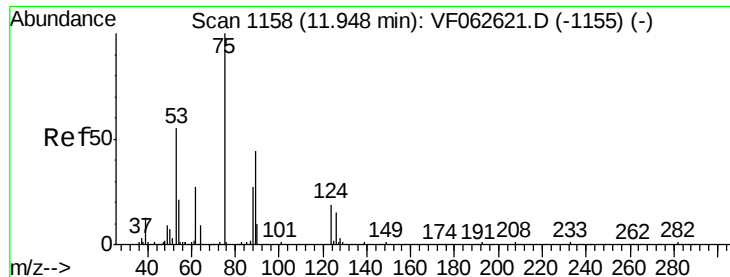
Tgt Ion: 105 Resp: 321

Ion Ratio Lower Upper

105 100

120 73.9 28.7 86.3





#81

trans-1,4-Dichloro-2-butene

Concen: 231.100 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampleId :

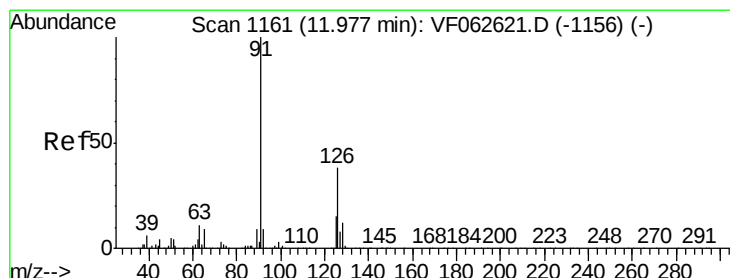
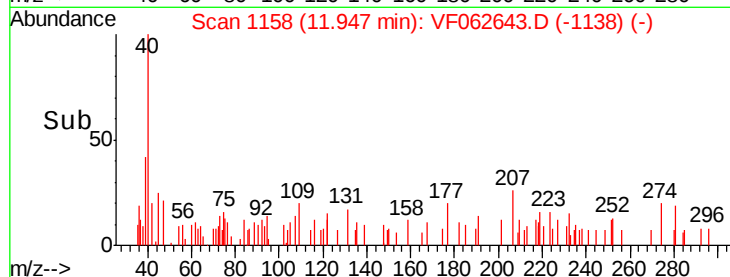
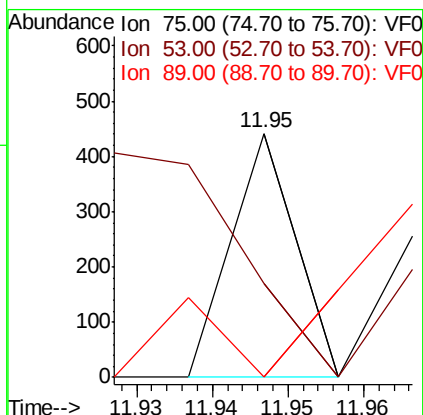
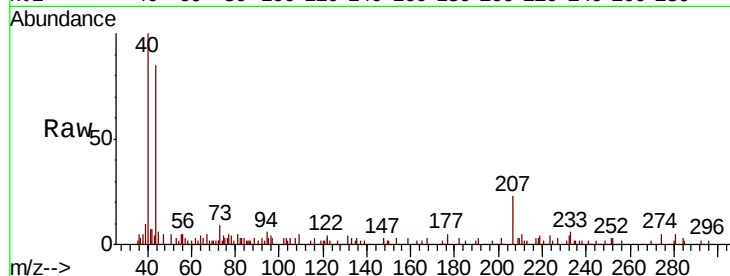
Tot Ion: 75 Resp: 261

Ion Ratio Lower Upper

75 100

53 38.8 46.9 70.3#

89 0.0 36.4 54.6#



#82

4-Chlorotoluene

Concen: 82.766 ug/l

RT: 12.02 min Scan# 1165

Delta R.T. 0.04 min

Lab File: VF062643.D

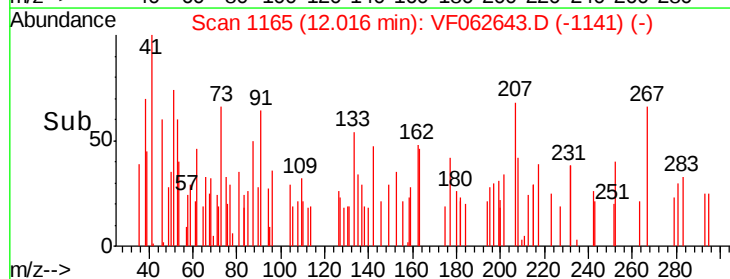
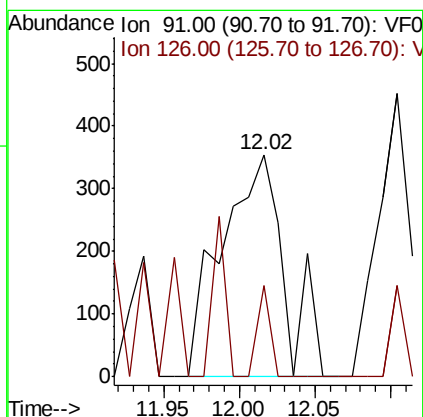
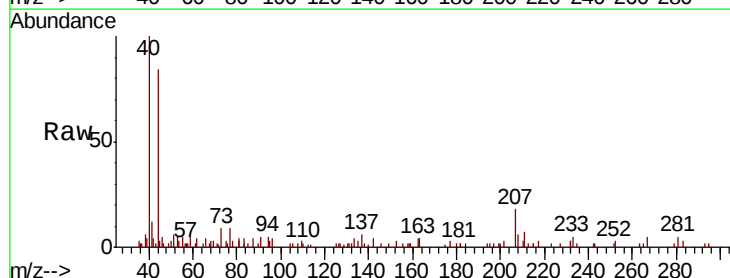
Acq: 17 May 2019 17:27

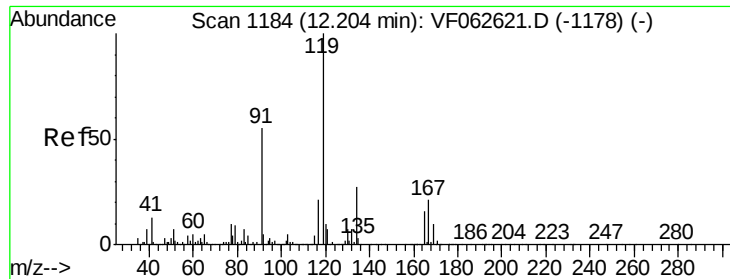
Tgt Ion: 91 Resp: 1030

Ion Ratio Lower Upper

91 100

126 41.1 19.1 57.1





#83

tert-Butylbenzene

Concen: 57.560 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampleId :

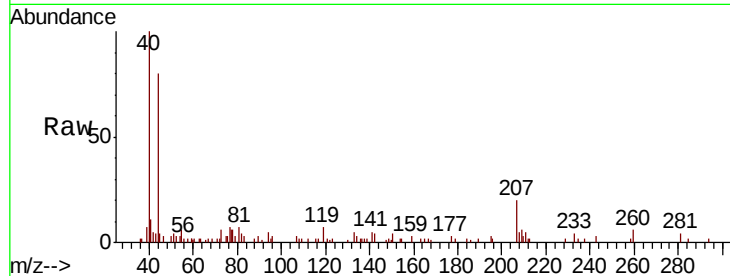
Tot Ion:119 Resp: 886

Ion Ratio Lower Upper

119 100

91 20.0 27.3 81.9#

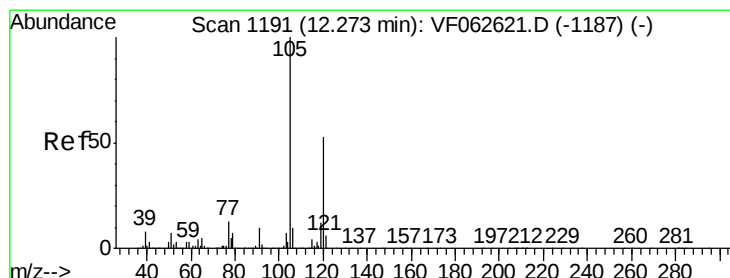
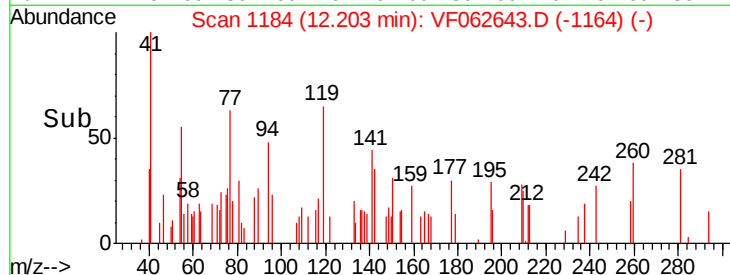
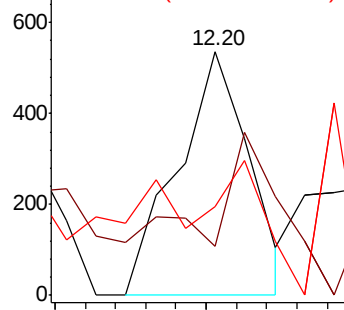
134 36.4 13.6 40.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 46.716 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. 0.01 min

Lab File: VF062643.D

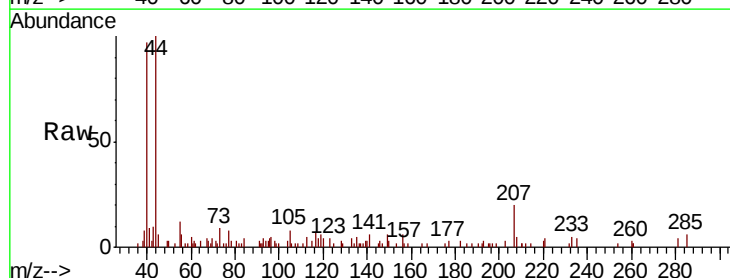
Acq: 17 May 2019 17:27

Tgt Ion:105 Resp: 686

Ion Ratio Lower Upper

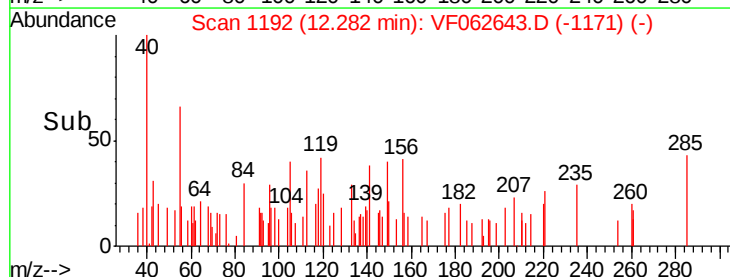
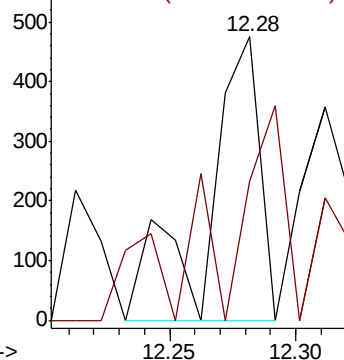
105 100

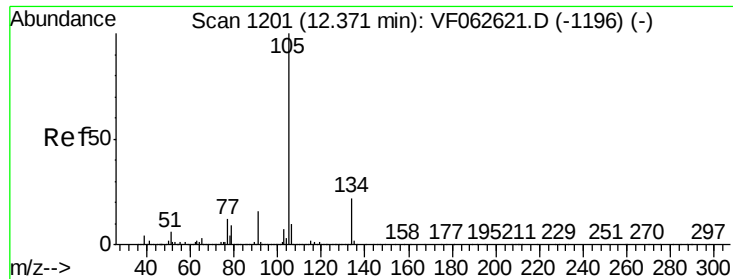
120 48.8 26.7 80.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

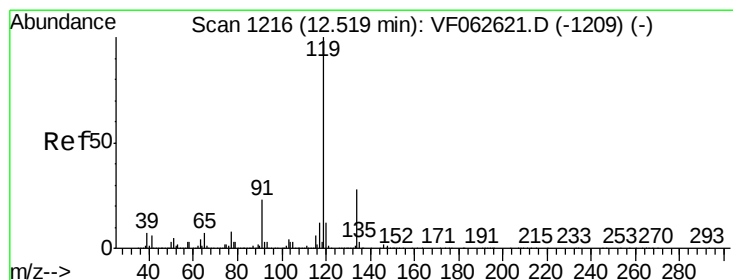
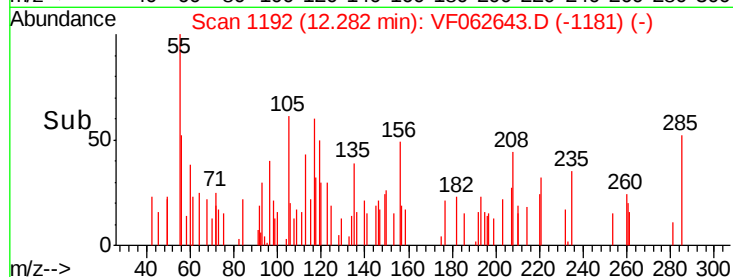
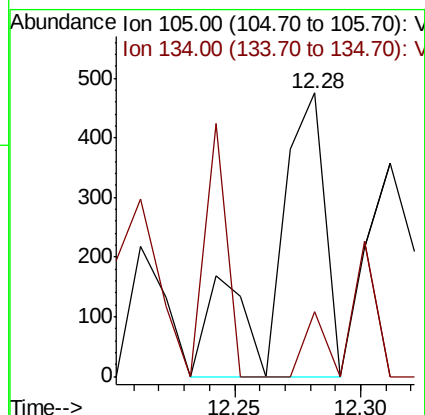
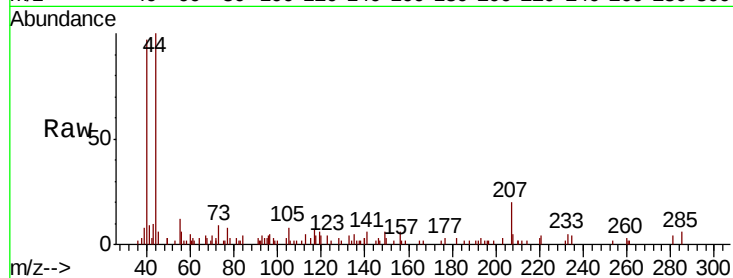




#85
 sec-Butylbenzene
 Concen: 33.209 ug/l
 RT: 12.28 min Scan# 1192
 Delta R.T. -0.09 min
 Lab File: VF062643.D
 Acq: 17 May 2019 17:27

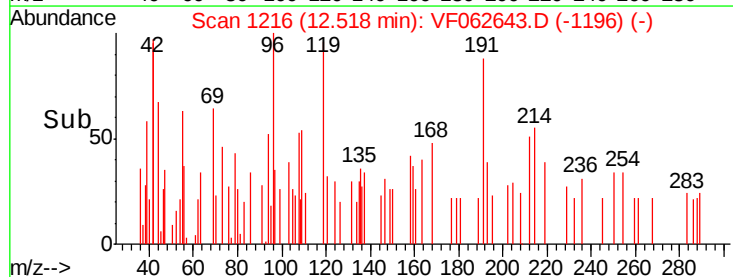
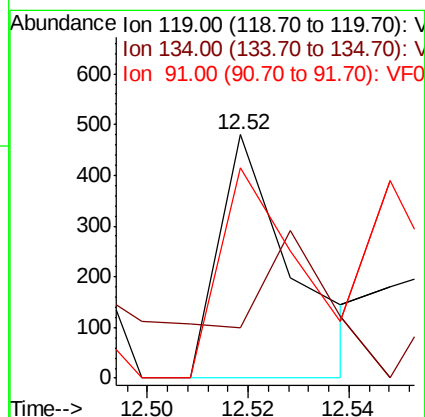
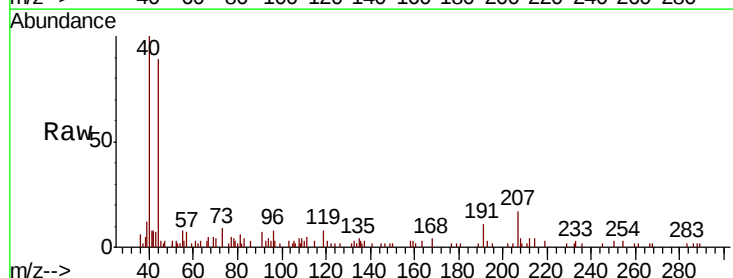
Instrument :
 MSVOA_F
 ClientSampled :

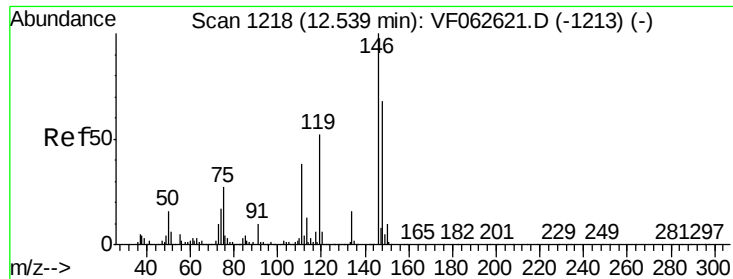
Tot Ion:105 Resp: 686
 Ion Ratio Lower Upper
 105 100
 134 22.9 10.8 32.4



#86
 p-Isopropyltoluene
 Concen: 27.974 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: VF062643.D
 Acq: 17 May 2019 17:27

Tgt Ion:119 Resp: 487
 Ion Ratio Lower Upper
 119 100
 134 20.8 14.1 42.3
 91 86.7 11.4 34.2#





#87

1,3-Dichlorobenzene

Concen: 22.446 ug/l

RT: 12.55 min Scan# 1219

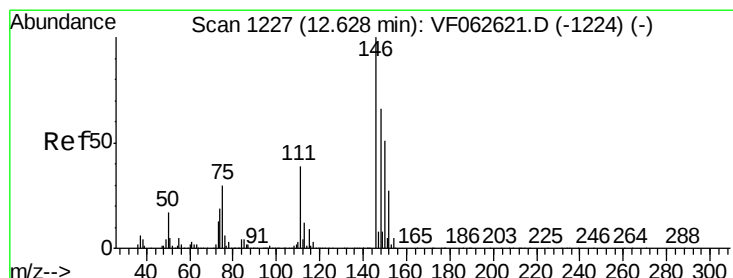
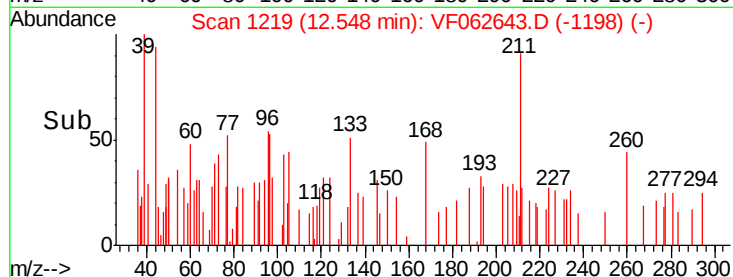
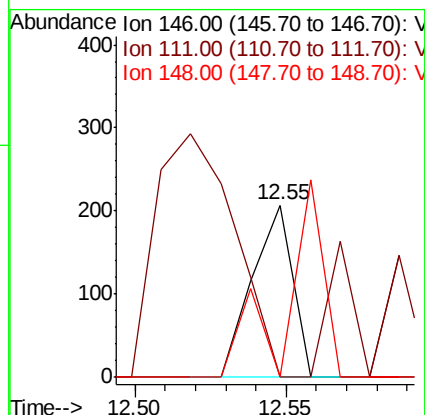
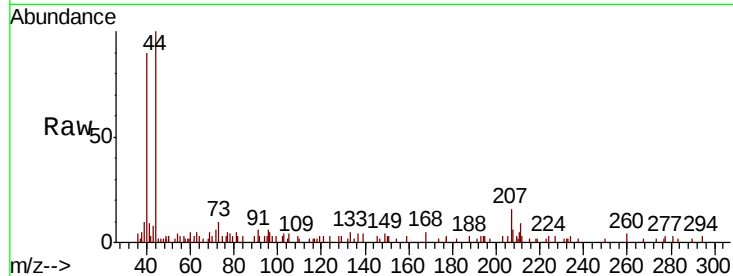
Delta R.T. 0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.9	56.9#
148	0.0	34.0	101.8#



#88

1,4-Dichlorobenzene

Concen: 35.691 ug/l

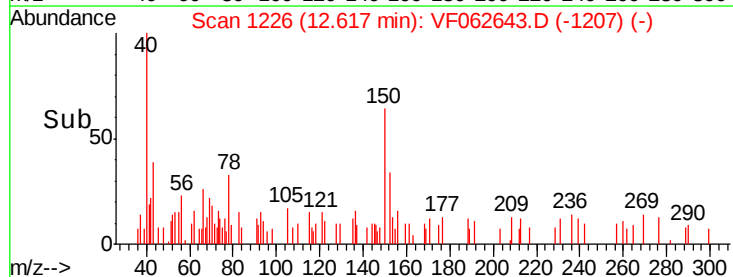
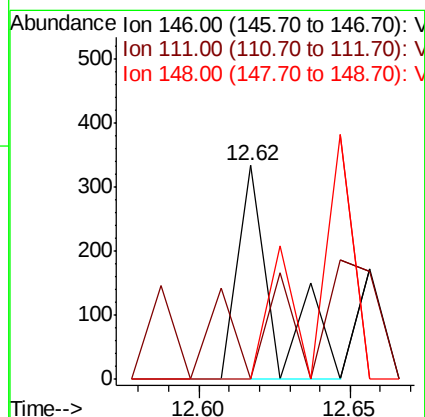
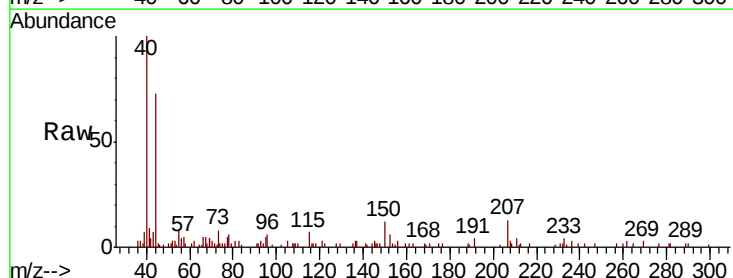
RT: 12.62 min Scan# 1226

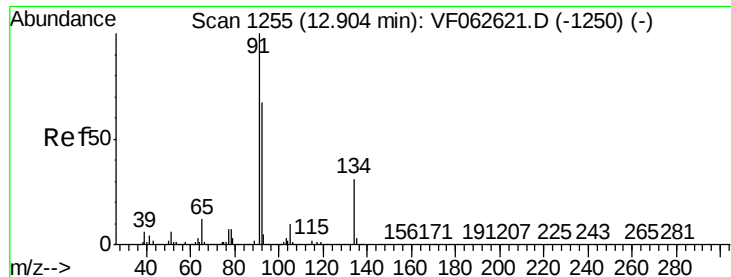
Delta R.T. -0.01 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.4	58.2#
148	0.0	33.2	99.6#





#89

n-Butylbenzene

Concen: 39.209 ug/l

RT: 12.97 min Scan# 1262

Delta R.T. 0.07 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampleId :

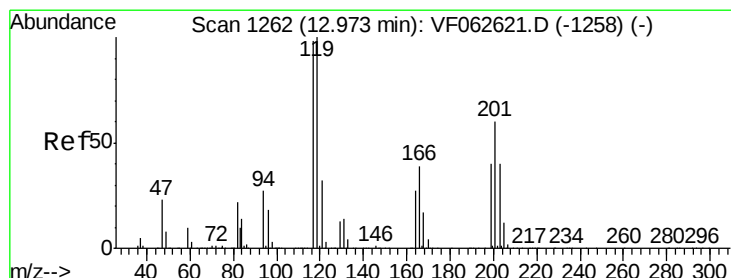
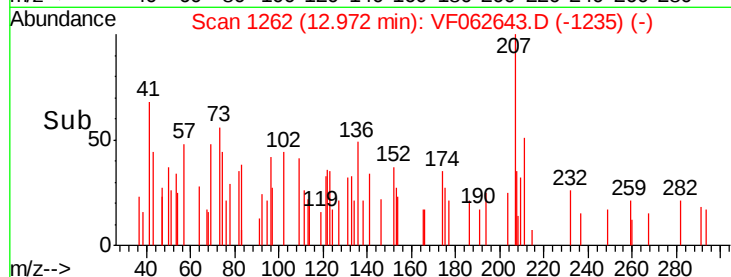
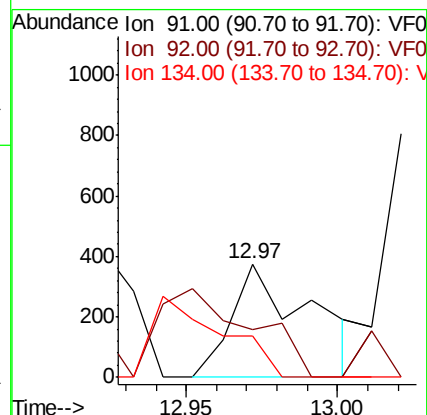
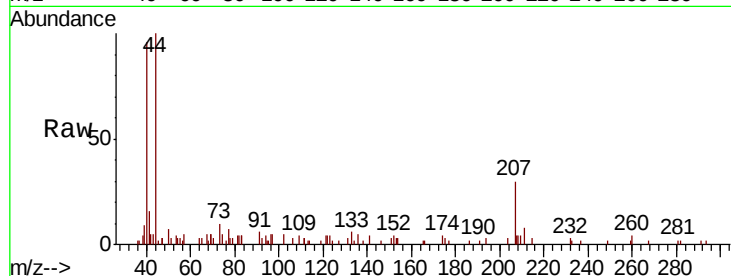
Tot Ion: 91 Resp: 673

Ion Ratio Lower Upper

91 100

92 42.7 33.3 99.8

134 36.8 15.4 46.4



#90

Hexachloroethane

Concen: 41.425 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.02 min

Lab File: VF062643.D

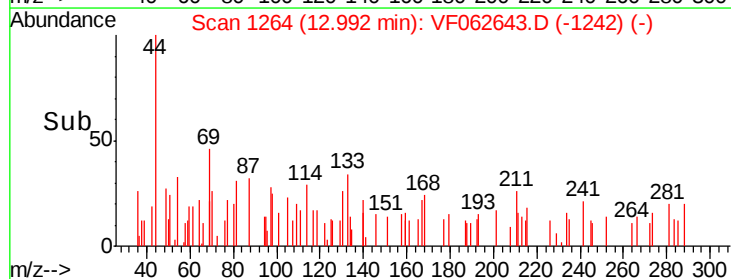
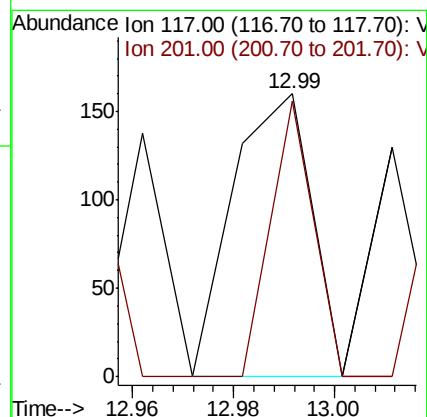
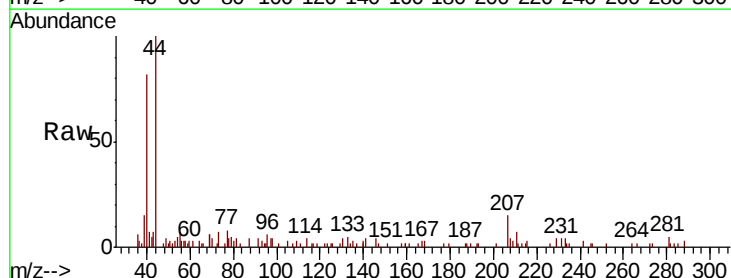
Acq: 17 May 2019 17:27

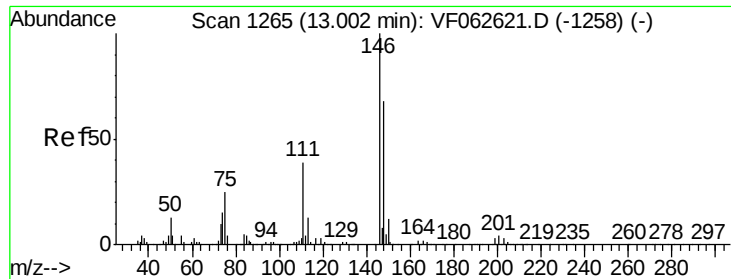
Tgt Ion: 117 Resp: 173

Ion Ratio Lower Upper

117 100

201 97.5 30.7 92.1#





#91

1,2-Dichlorobenzene

Concen: 39.815 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VF062643.D

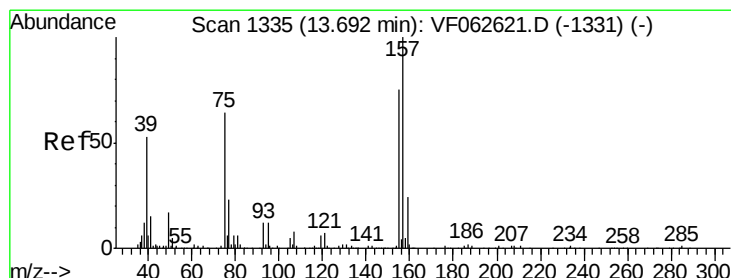
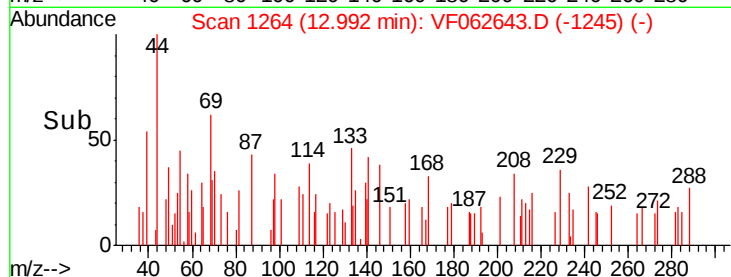
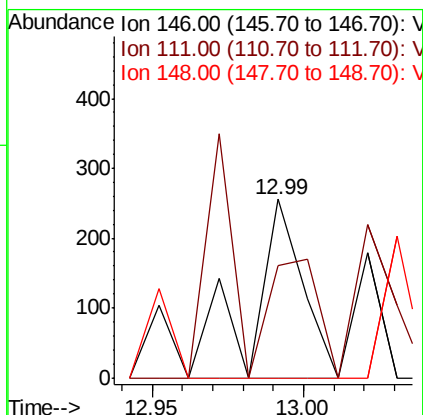
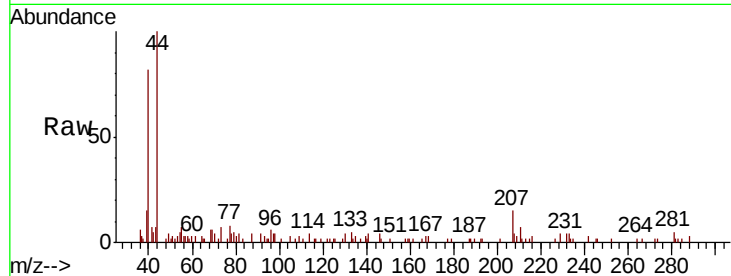
Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampled :

Tot Ion:	146	Resp:	302
Ion	Ratio	Lower	Upper
146	100		
111	44.0	19.8	59.3
148	0.0	34.1	102.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 325.169 ug/l

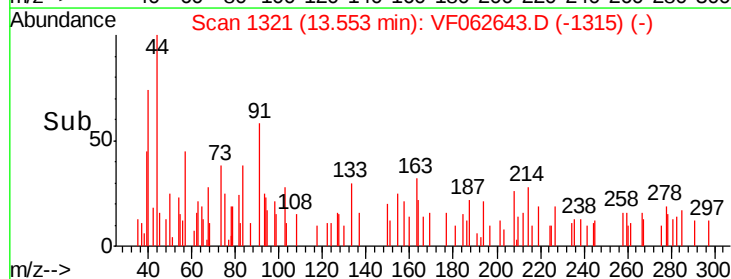
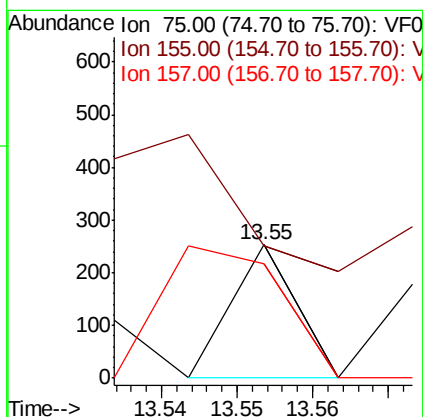
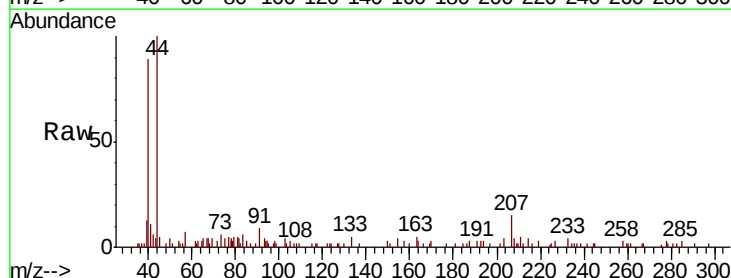
RT: 13.55 min Scan# 1321

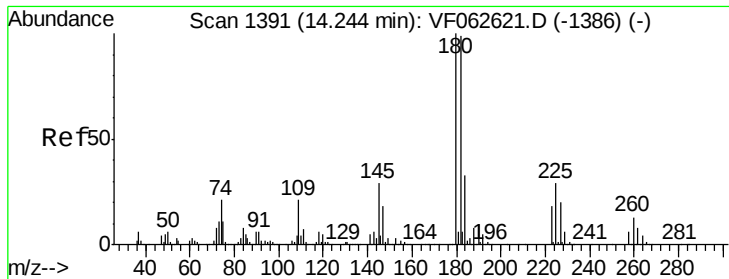
Delta R.T. -0.14 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Tgt Ion:	75	Resp:	150
Ion	Ratio	Lower	Upper
75	100		
155	99.6	58.1	174.3
157	86.2	77.8	233.4

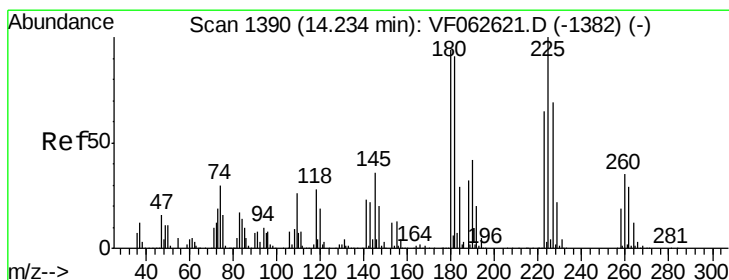
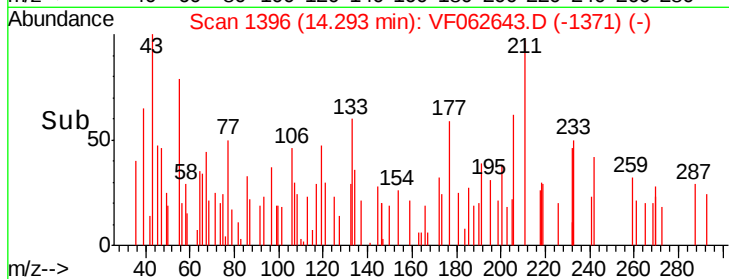
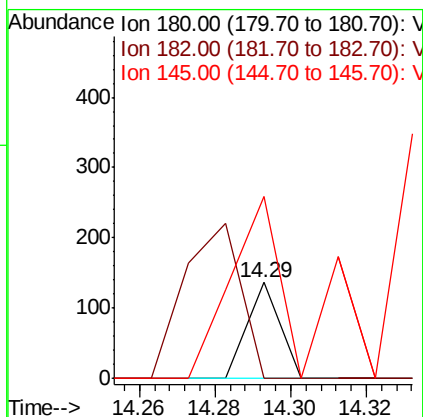
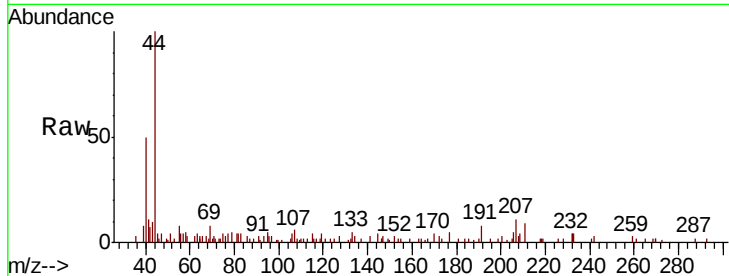




#93
 1,2,4-Trichlorobenzene
 Concen: 14.735 ug/l
 RT: 14.29 min Scan# 1396
 Delta R.T. 0.05 min
 Lab File: VF062643.D
 Acq: 17 May 2019 17:27

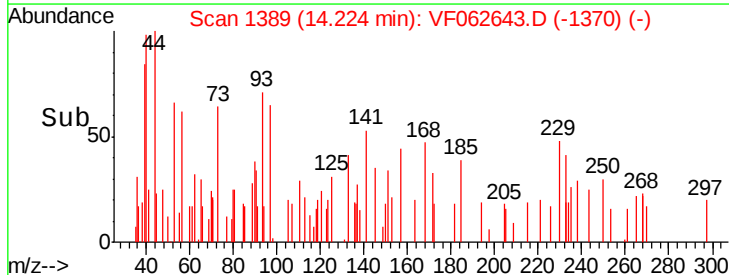
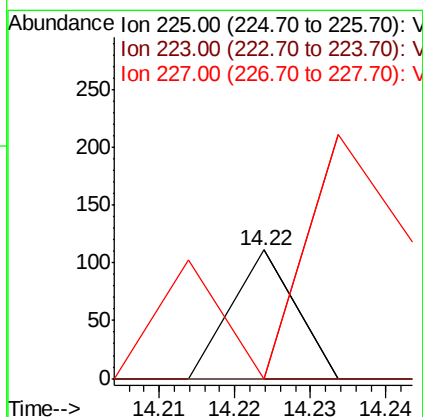
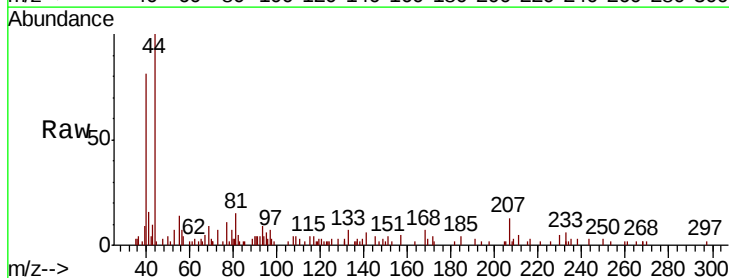
Instrument :
 MSVOA_F
 ClientSampled :

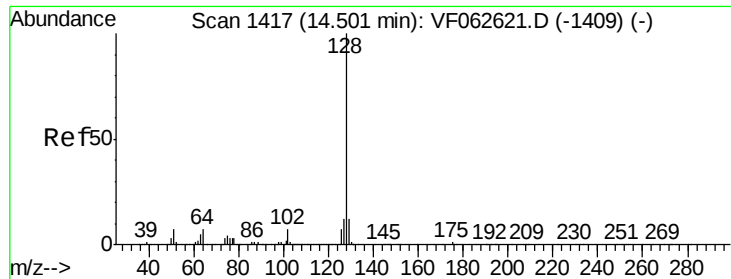
Tot Ion:180 Resp: 80
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.7 149.1#
 145 190.4 14.6 44.0#



#94
 Hexachlorobutadiene
 Concen: 17.419 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: VF062643.D
 Acq: 17 May 2019 17:27

Tgt Ion:225 Resp: 66
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.5 97.4#
 227 0.0 34.5 103.5#





#95

Naphthalene

Concen: 110.914 ug/l

RT: 14.48 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

Instrument :

MSVOA_F

ClientSampled :

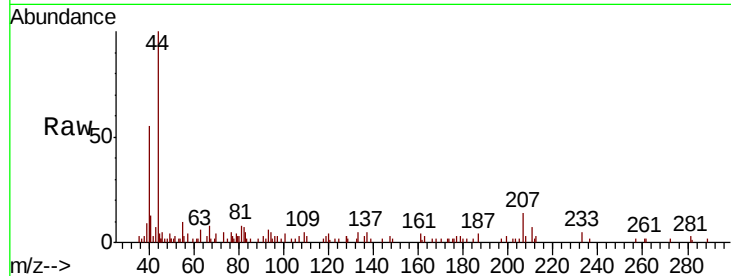
Tot Ion:128 Resp: 1094

Ion Ratio Lower Upper

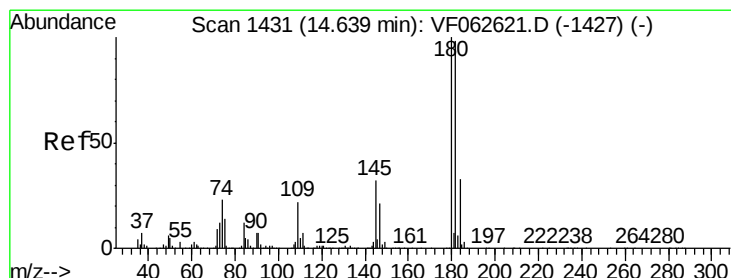
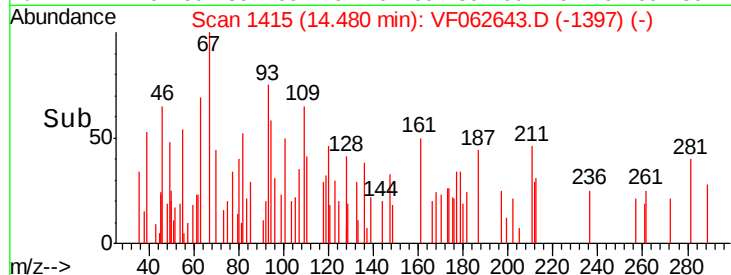
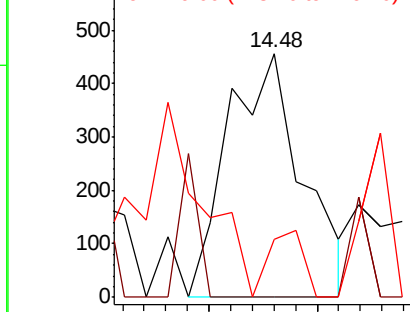
128 100

127 0.0 9.7 14.5#

129 23.9 9.3 13.9#



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: 33.445 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VF062643.D

Acq: 17 May 2019 17:27

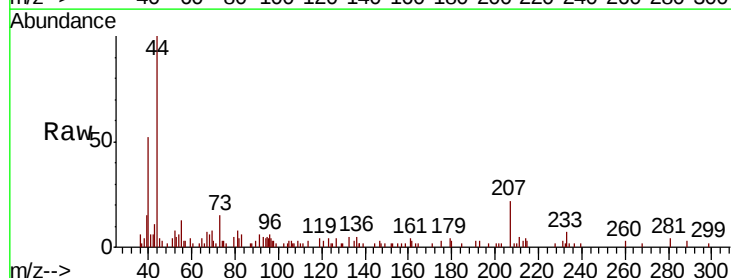
Tgt Ion:180 Resp: 172

Ion Ratio Lower Upper

180 100

182 0.0 48.9 146.7#

145 0.0 16.1 48.2#



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

