

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030119\
 Data File : VF061805.D
 Acq On : 1 Mar 2019 16:24
 Operator : VA/AP
 Sample : K1341-07
 Misc : 4.67g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HR-06-022719-A

Quant Time: Mar 02 02:46:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	90117	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.59	114	138595	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	46536	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	39222	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	48314	73.11	ug/l	-0.03
Spiked Amount			Recovery	=	146.22%	
35) Dibromofluoromethane	4.10	113	64110	62.29	ug/l	-0.02
Spiked Amount			Recovery	=	124.58%	
50) Toluene-d8	7.54	98	83489	28.22	ug/l	-0.02
Spiked Amount			Recovery	=	56.44%	
62) 4-Bromofluorobenzene	11.48	95	248255	207.37	ug/l	0.06
Spiked Amount			Recovery	=	414.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	583	15.244	ug/l #	1
13) Acrolein	2.06	56	632	13.148	ug/l	94
15) Acrylonitrile	2.93	53	1186	8.743	ug/l #	66
16) Acetone	2.24	43	15700	110.730	ug/l #	87
18) Methyl Acetate	2.33	43	8608	26.950	ug/l	98
20) Methylene Chloride	2.17	84	6681	6.606	ug/l #	89
23) Vinyl Acetate	3.17	43	1335	1.202	ug/l #	74
25) 2-Butanone	4.31	43	835	2.696	ug/l #	55
29) Tetrahydrofuran	4.07	42	798	5.669	ug/l #	70
39) Methylcyclohexane	5.44	83	12999	8.006	ug/l #	85
41) Methacrylonitrile	4.74	41	586	1.797	ug/l #	25
43) Isopropyl Acetate	7.04	43	8607	11.402	ug/l #	43
48) Methyl methacrylate	6.67	41	468	1.030	ug/l #	50
51) 4-Methyl-2-Pentanone	8.26	43	63864	118.407	ug/l #	41
52) Toluene	7.61	92	182491	83.789	ug/l	99
55) 1,1,2-Trichloroethane	8.48	97	1058	1.653	ug/l #	1
56) Ethyl methacrylate	8.62	69	132232	185.601	ug/l #	77
58) 2-Chloroethyl Vinyl ether	7.27	63	130	1.058	ug/l #	44
59) 2-Hexanone	9.51	43	16924	44.764	ug/l #	32
65) Chlorobenzene	9.75	112	3552	3.761	ug/l #	42
67) Ethyl Benzene	9.89	91	712268	453.559	ug/l	99
68) m/p-Xylenes	10.12	106	1241555	2065.773	ug/l	87
69) o-Xylene	10.71	106	994442	1550.636	ug/l	87
70) Styrene	10.78	104	1982	2.185	ug/l #	29
73) Isopropylbenzene	11.11	105	515644	184.651	ug/l	99
74) N-amyl acetate	11.27	43	459970	686.240	ug/l #	30
75) 1,1,2,2-Tetrachloroethane	11.67	83	117708	235.279	ug/l #	1
76) 1,2,3-Trichloropropane	11.82	75	16534	48.609	ug/l #	1
78) n-propylbenzene	11.58	91	1309322	408.587	ug/l	100
79) 2-Chlorotoluene	11.70	91	420828	234.485	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.82	105	1718383	769.919	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.82	75	16315	100.050	ug/l #	1
82) 4-Chlorotoluene	11.82	91	175125	94.012	ug/l #	38
83) tert-Butylbenzene	12.13	119	62838	25.419	ug/l	87

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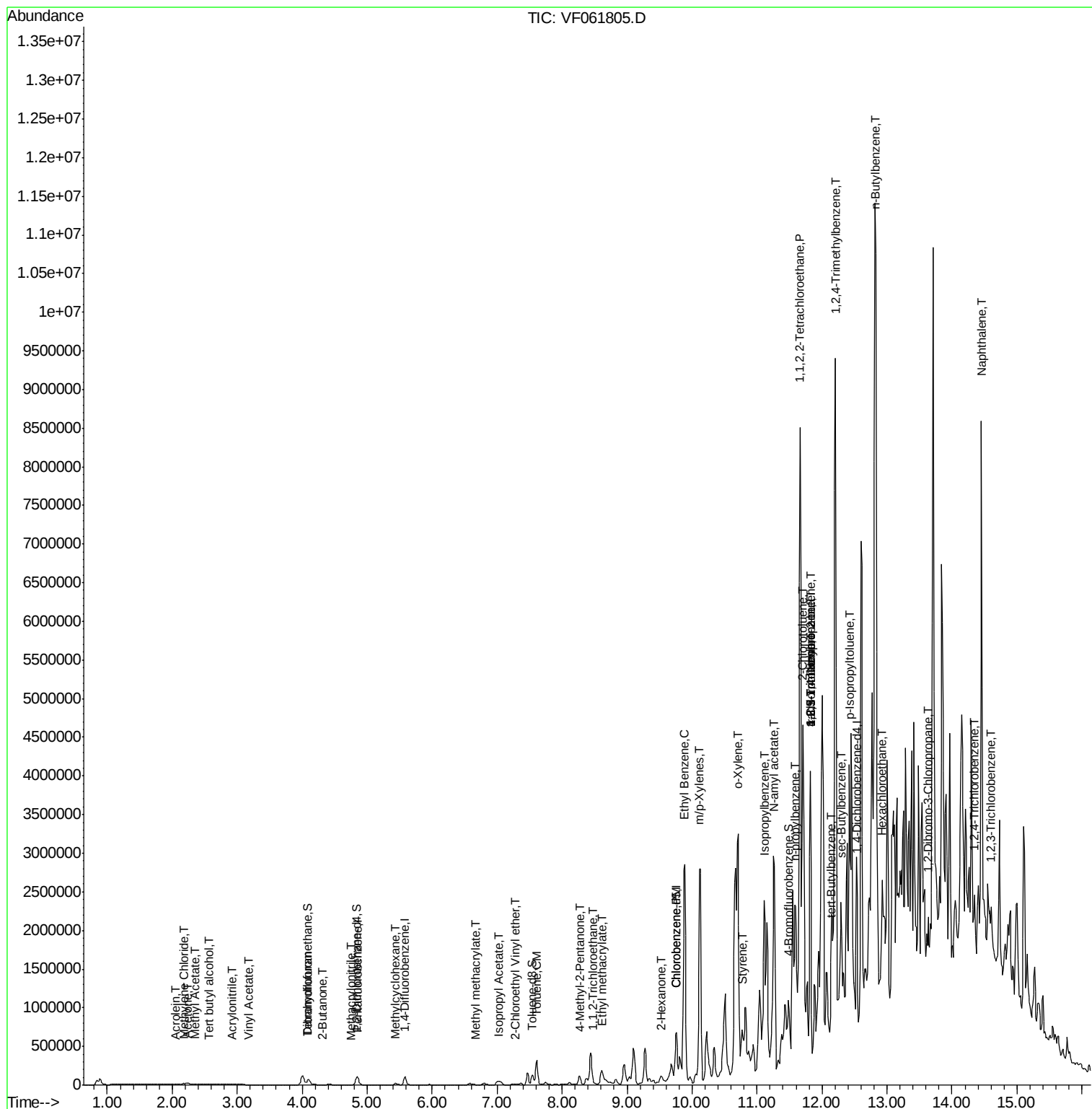
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) 1,2,4-Trimethylbenzene	12.20	105	3060730	1380.347	ug/l	87
85) sec-Butylbenzene	12.30	105	816671	255.467	ug/l	87
86) p-Isopropyltoluene	12.42	119	1729782	644.749	ug/l	96
89) n-Butylbenzene	12.84	91	699322	276.042	ug/l #	78
90) Hexachloroethane	12.92	117	36729	58.864	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	13.63	75	3488	43.974	ug/l #	34
93) 1,2,4-Trichlorobenzene	14.35	180	15346	16.736	ug/l	83
95) Naphthalene	14.44	128	459749	286.576	ug/l #	84
96) 1,2,3-Trichlorobenzene	14.60	180	15662	18.610	ug/l #	51

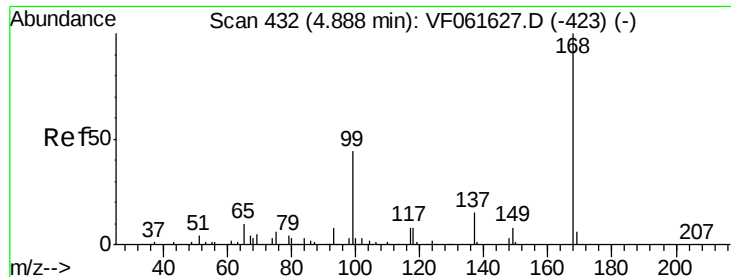
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

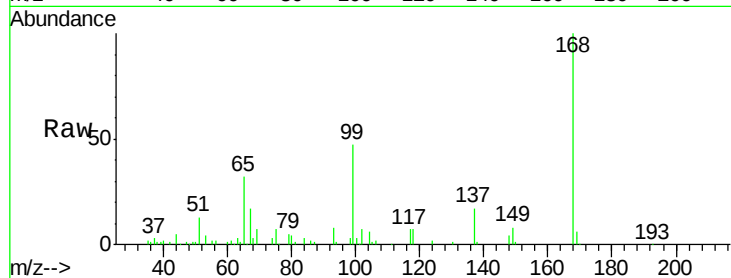
HR-06-022719-A

Tot Ion:168 Resp: 90117

Ion Ratio Lower Upper

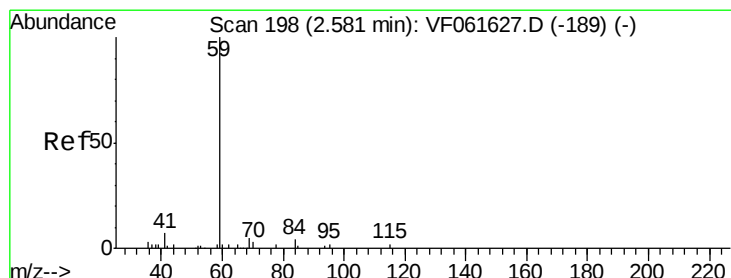
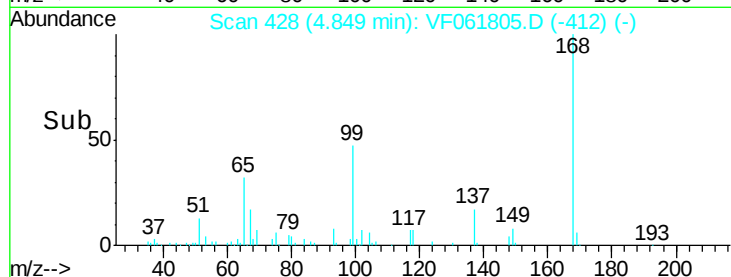
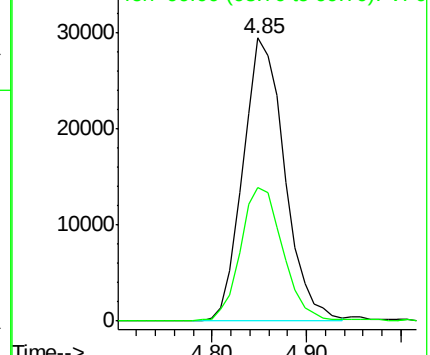
168 100

99 47.2 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 15.244 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF061805.D

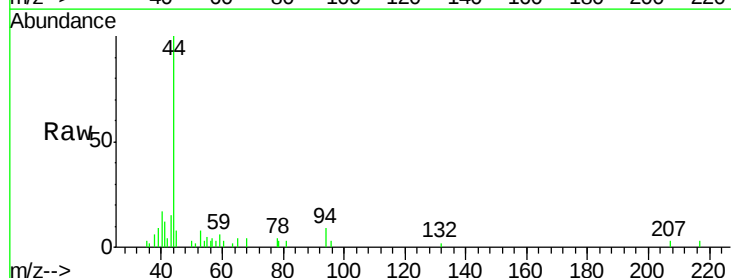
Acq: 1 Mar 2019 16:24

Tgt Ion: 59 Resp: 583

Ion Ratio Lower Upper

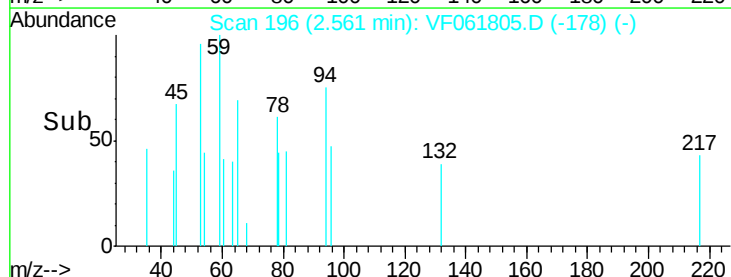
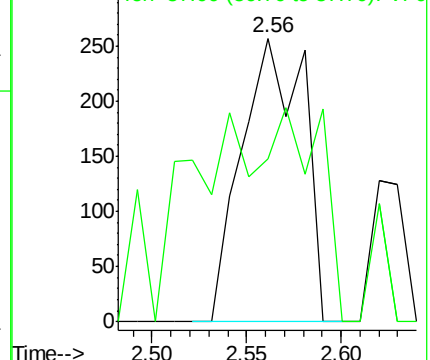
59 100

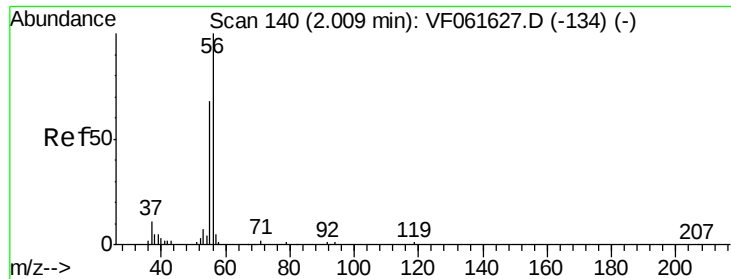
57 57.6 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 13.148 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.05 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

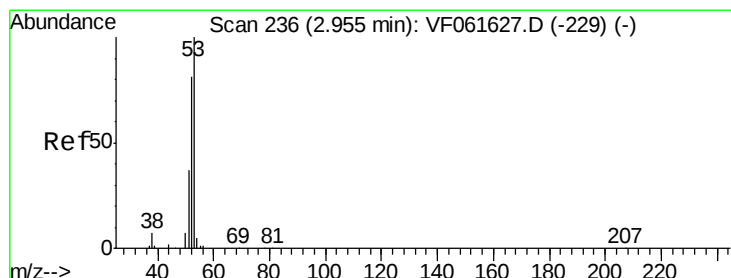
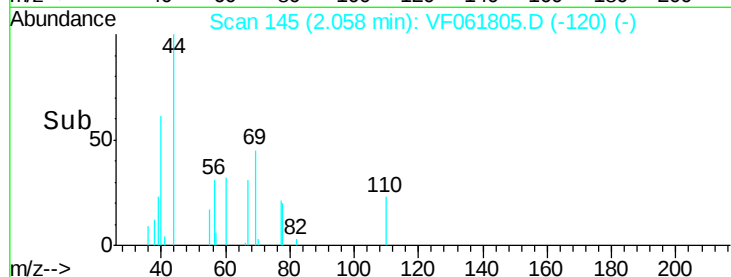
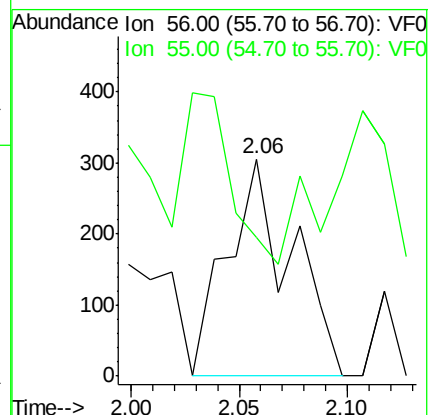
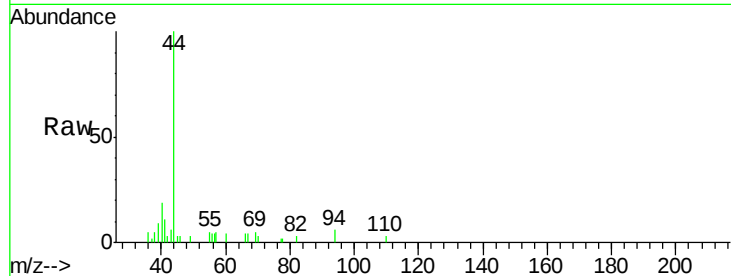
HR-06-022719-A

Tot Ion: 56 Resp: 632

Ion Ratio Lower Upper

56 100

55 63.7 55.0 82.6



#15

Acrylonitrile

Concen: 8.743 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

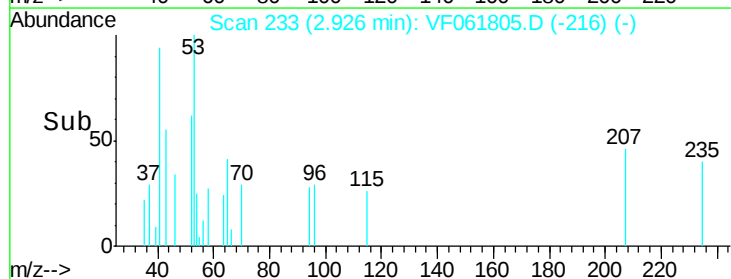
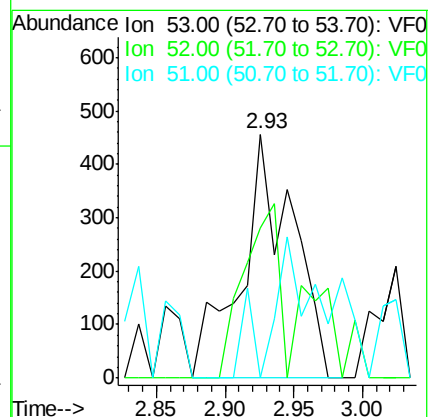
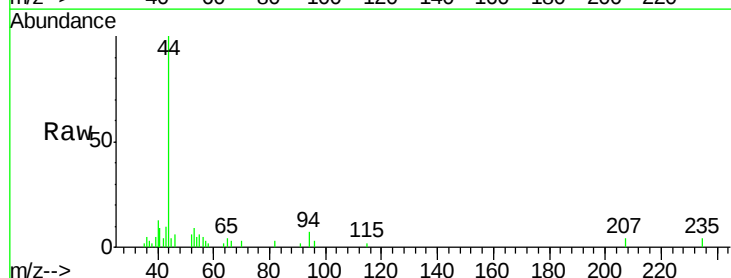
Tgt Ion: 53 Resp: 1186

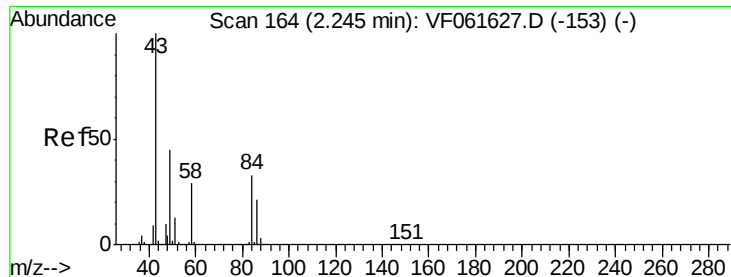
Ion Ratio Lower Upper

53 100

52 61.8 64.6 97.0#

51 0.0 29.8 44.8#





#16

Acetone

Concen: 110.730 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

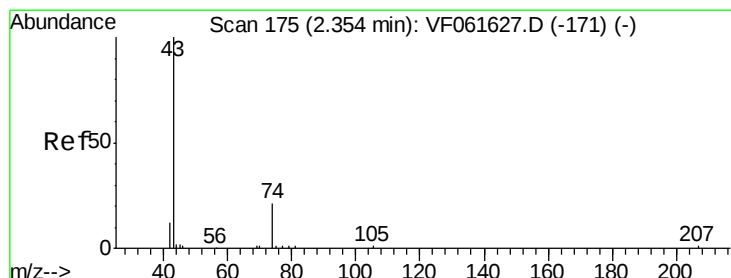
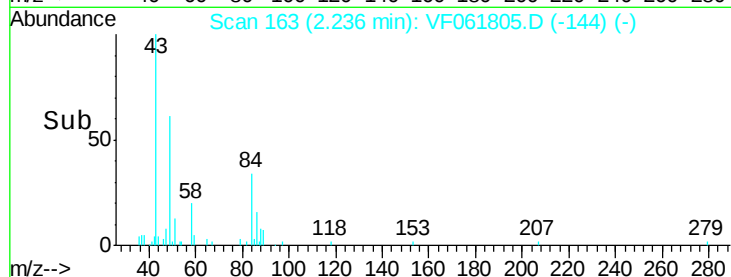
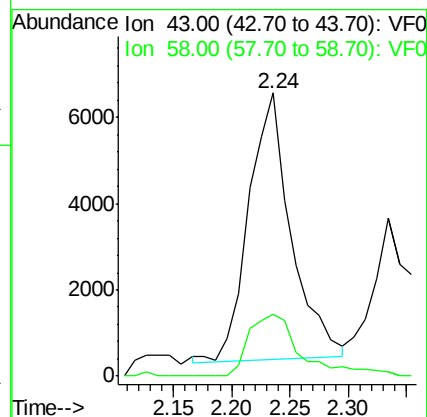
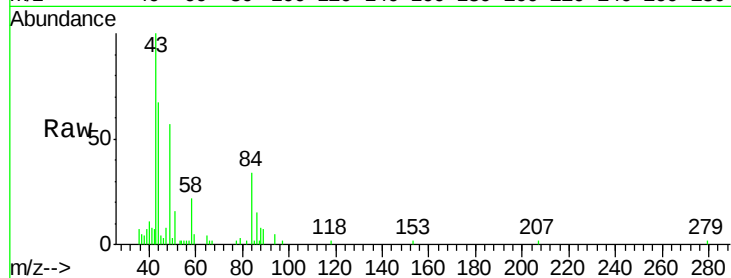
HR-06-022719-A

Tot Ion: 43 Resp: 15700

Ion Ratio Lower Upper

43 100

58 21.7 22.9 34.3#



#18

Methyl Acetate

Concen: 26.950 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.02 min

Lab File: VF061805.D

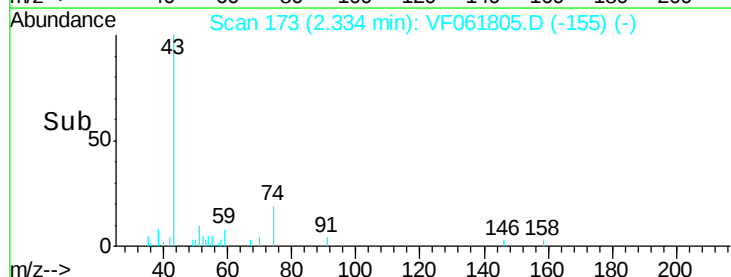
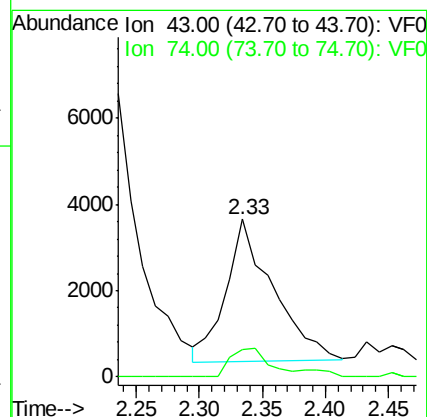
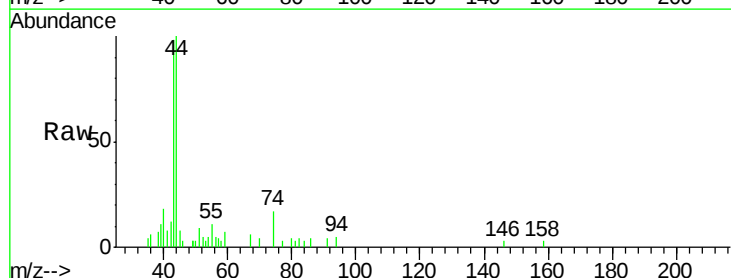
Acq: 1 Mar 2019 16:24

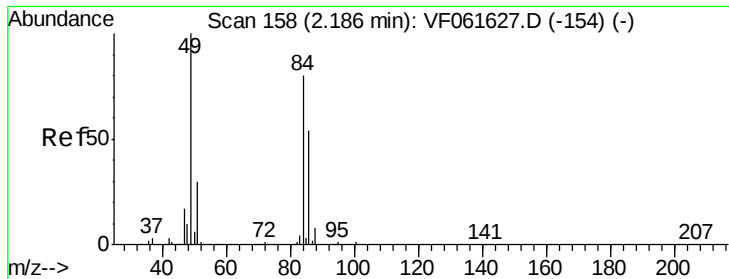
Tgt Ion: 43 Resp: 8608

Ion Ratio Lower Upper

43 100

74 17.1 14.6 21.8





#20

Methvlene Chloride

Concen: 6.606 ug/l

RT: 2.17 min Scan# 156

Delta R.T. -0.02 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

HR-06-022719-A

Tot Ion: 84 Resp: 6681

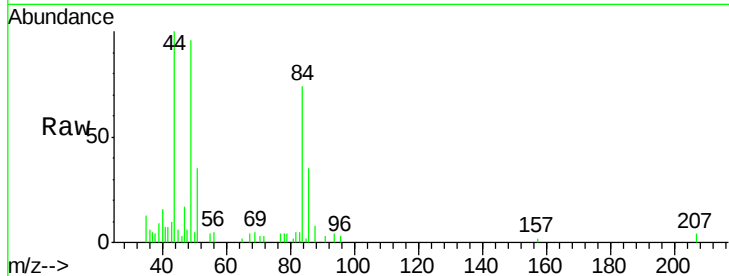
Ion Ratio Lower Upper

84 100

49 129.7 101.8 152.8

51 48.0 31.1 46.7#

86 47.8 54.4 81.6#



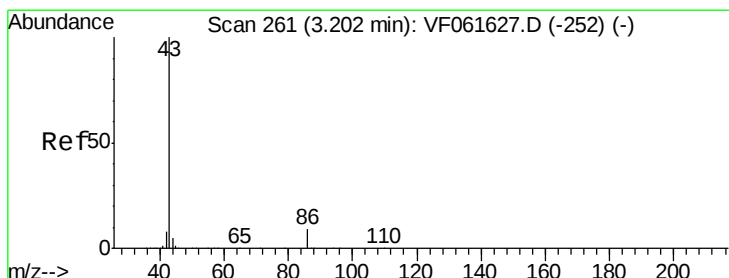
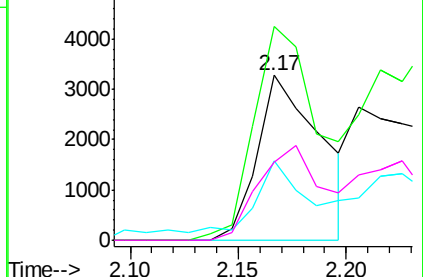
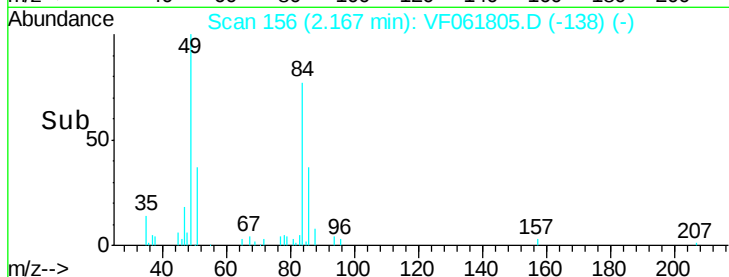
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

Time-->



#23

Vinyl Acetate

Concen: 1.202 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061805.D

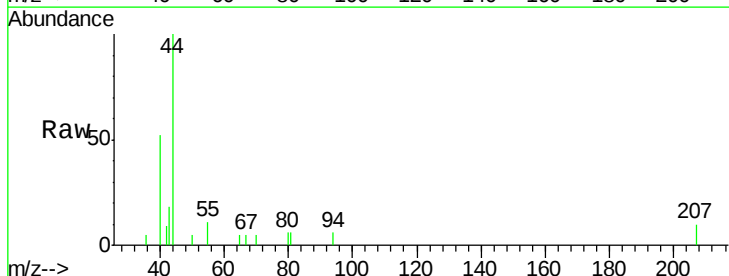
Acq: 1 Mar 2019 16:24

Tgt Ion: 43 Resp: 1335

Ion Ratio Lower Upper

43 100

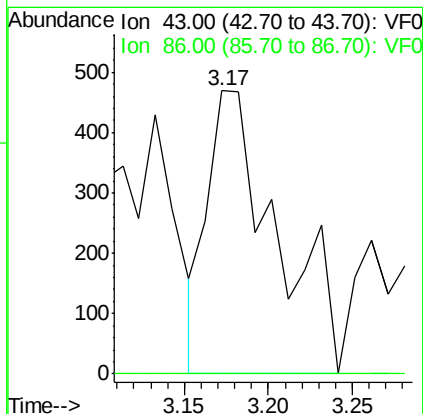
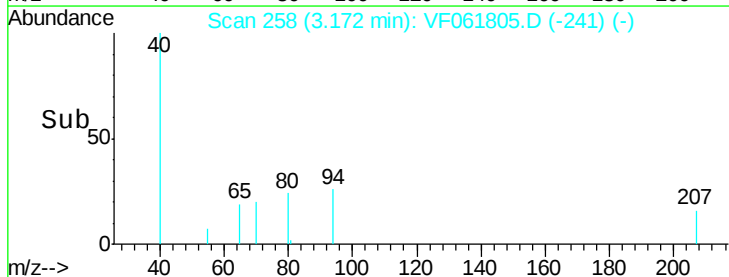
86 0.0 7.5 11.3#

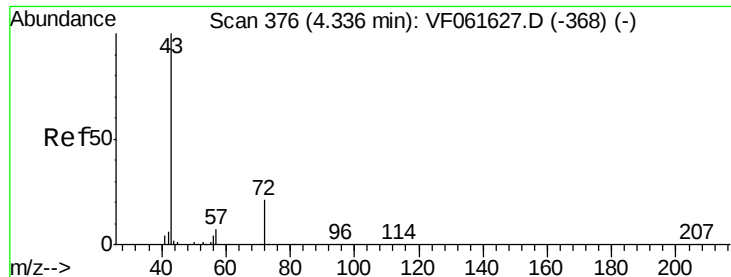


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

Time-->





#25

2-Butanone

Concen: 2.696 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.03 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

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ClientSampleId :

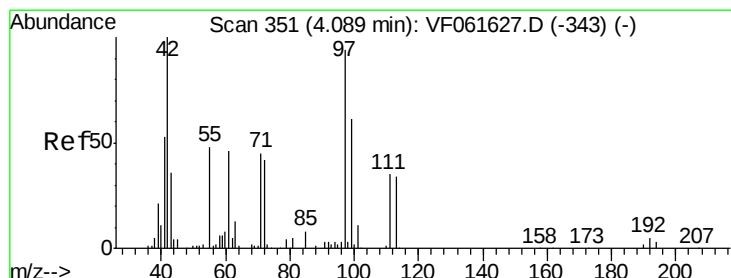
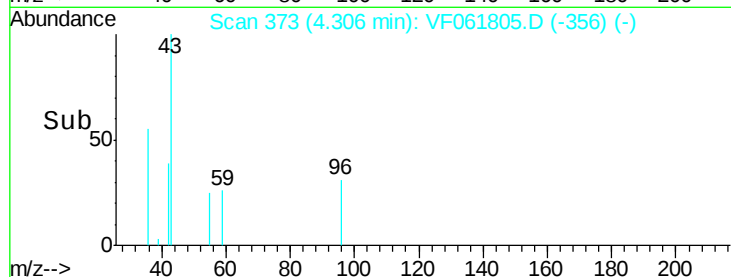
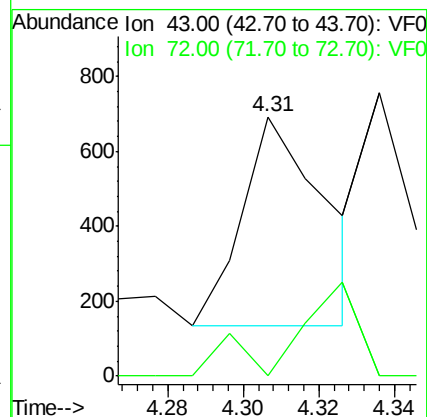
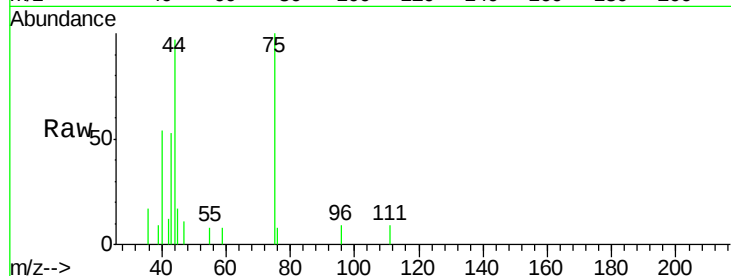
HR-06-022719-A

Tot Ion: 43 Resp: 835

Ion Ratio Lower Upper

43 100

72 0.0 17.1 25.7#



#29

Tetrahydrofuran

Concen: 5.669 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.02 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

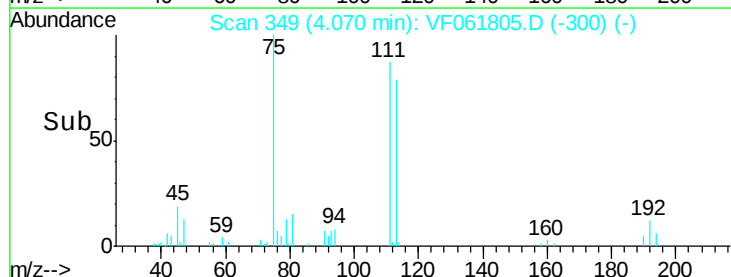
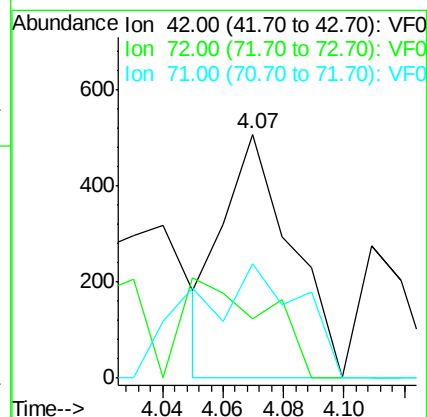
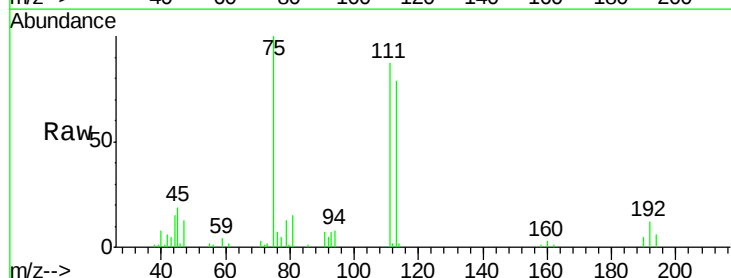
Tgt Ion: 42 Resp: 798

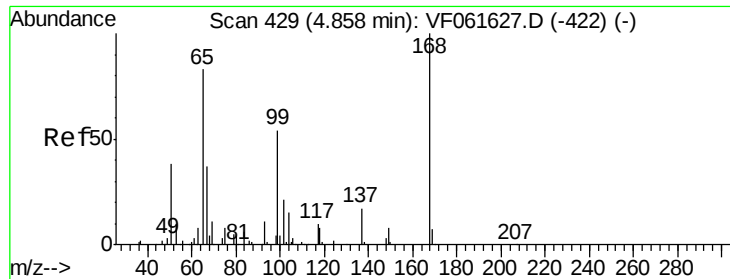
Ion Ratio Lower Upper

42 100

72 49.6 35.2 52.8

71 73.6 32.9 49.3#





#33

1,2-Dichloroethane-d4

Concen: 73.110 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.03 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

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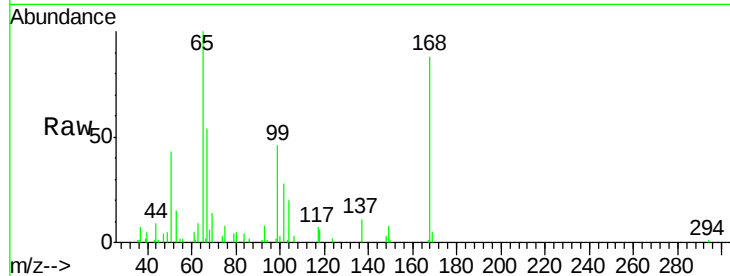
HR-06-022719-A

Tot Ion: 65 Resp: 48314

Ion Ratio Lower Upper

65 100

67 53.9 0.0 104.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

15000

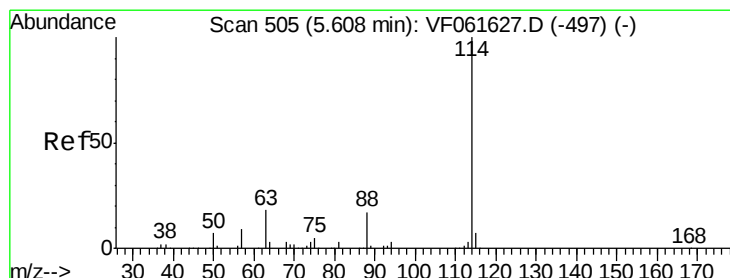
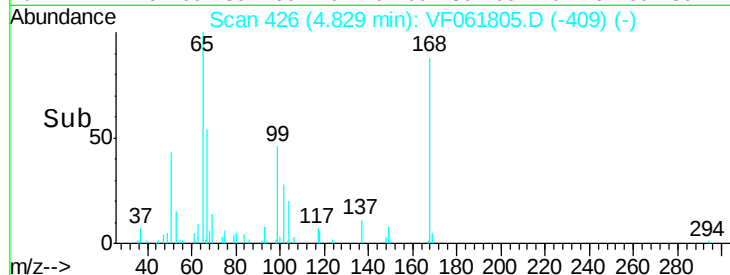
10000

5000

0

4.70 4.80 4.90 5.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

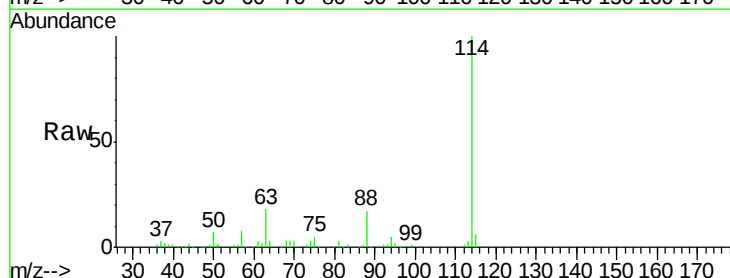
Tgt Ion: 114 Resp: 138595

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.6

88 17.3 0.0 34.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

60000

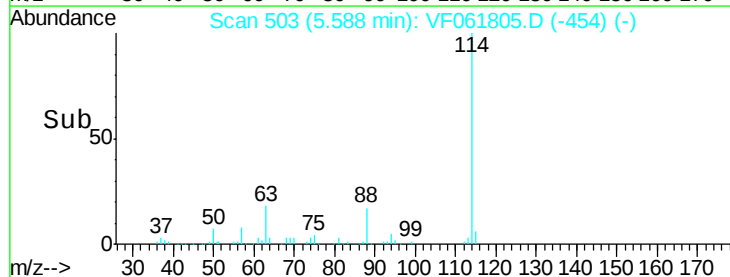
40000

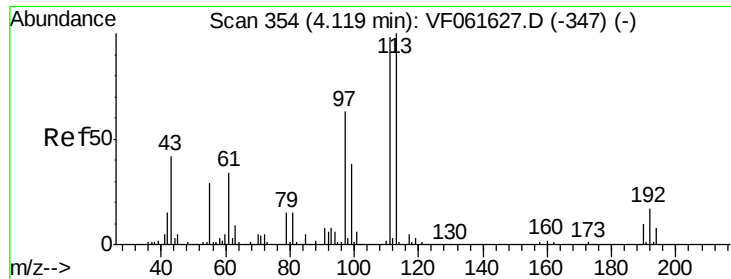
20000

0

5.50 5.60 5.70

Time-->





#35

Dibromofluoromethane

Concen: 62.290 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

HR-06-022719-A

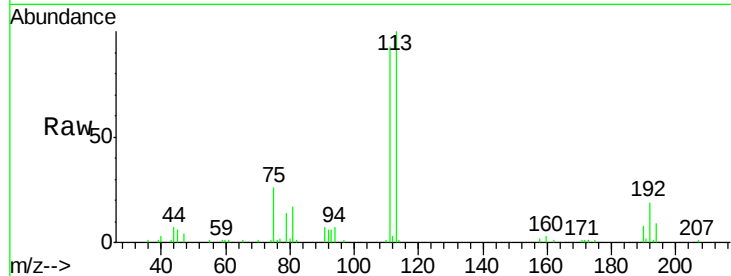
Tot Ion:113 Resp: 64110

Ion Ratio Lower Upper

113 100

111 93.3 78.8 118.2

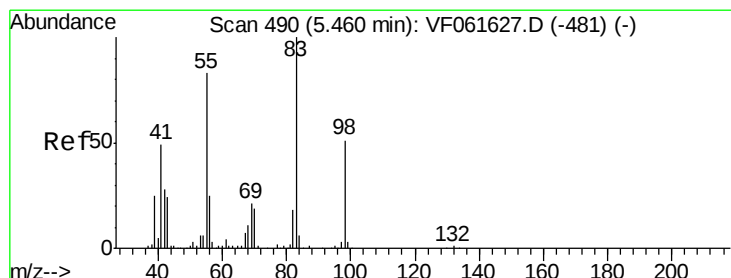
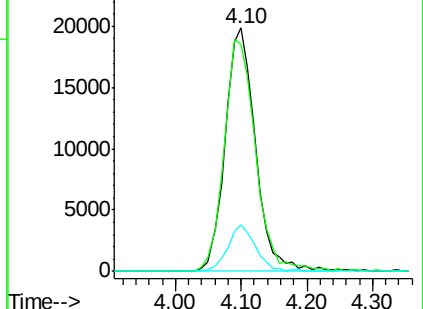
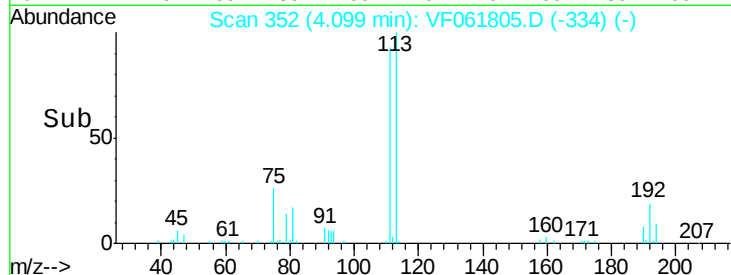
192 19.1 13.4 20.0



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#39

Methylcyclohexane

Concen: 8.006 ug/l

RT: 5.44 min Scan# 488

Delta R.T. -0.02 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

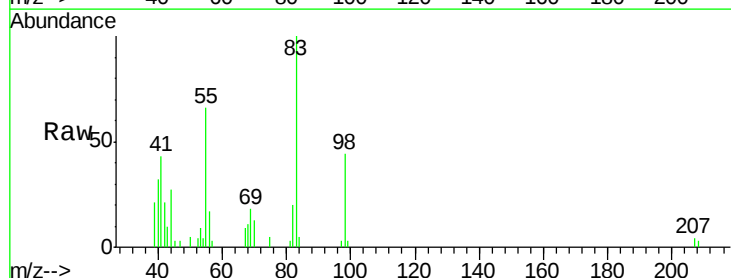
Tgt Ion: 83 Resp: 12999

Ion Ratio Lower Upper

83 100

55 65.9 66.6 99.8#

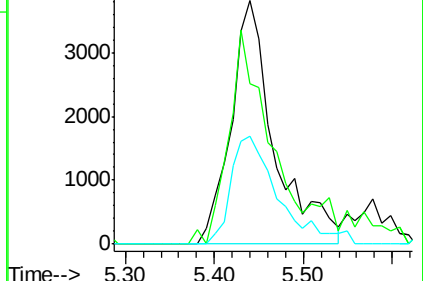
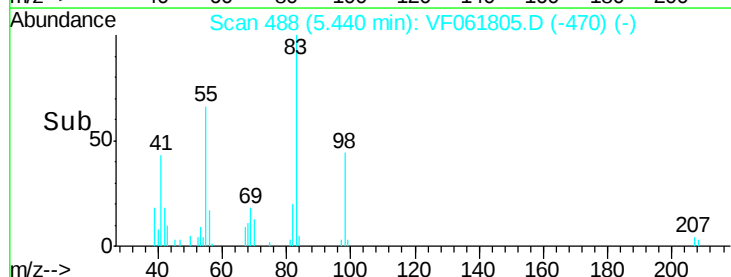
98 44.3 40.4 60.6

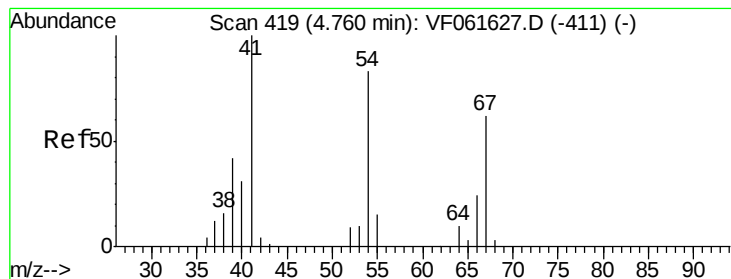


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 1.797 ug/l

RT: 4.74 min Scan# 417

Delta R.T. -0.02 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

HR-06-022719-A

Tot Ion: 41 Resp: 586

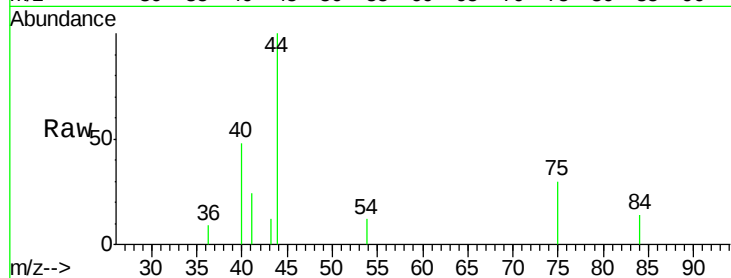
Ion Ratio Lower Upper

41 100

39 0.0 45.3 67.9#

67 0.0 49.3 73.9#

52 0.0 32.6 49.0#

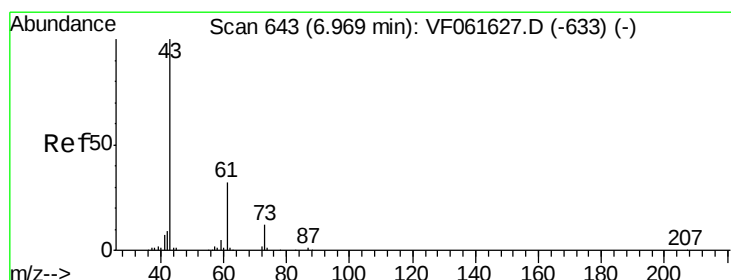
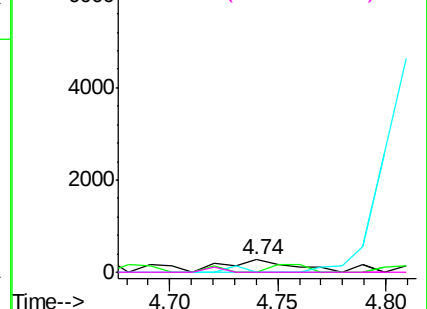
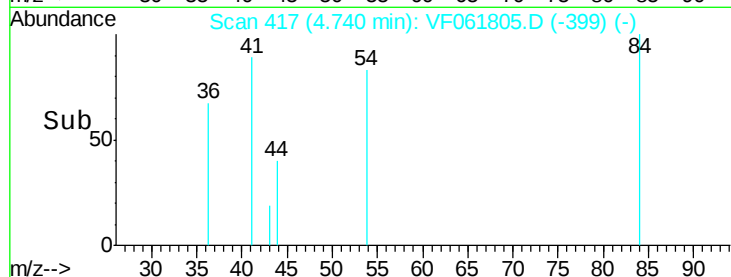


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 11.402 ug/l

RT: 7.04 min Scan# 650

Delta R.T. 0.07 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

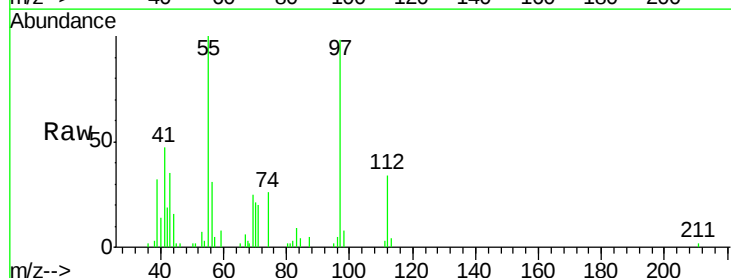
Tgt Ion: 43 Resp: 8607

Ion Ratio Lower Upper

43 100

61 0.0 25.8 38.6#

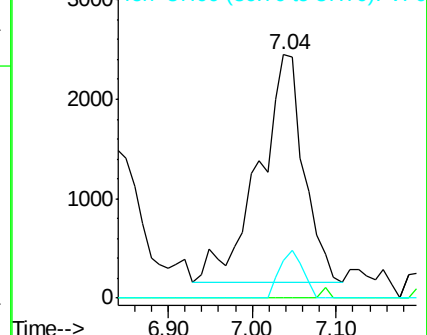
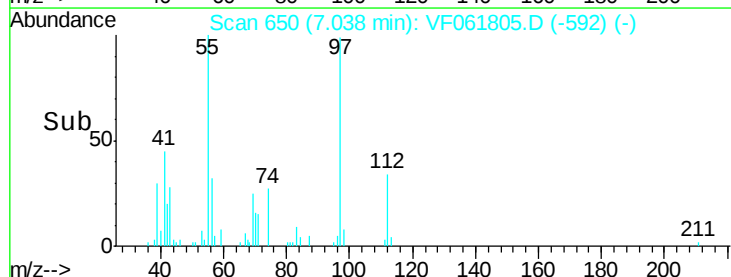
87 15.3 0.4 0.6#

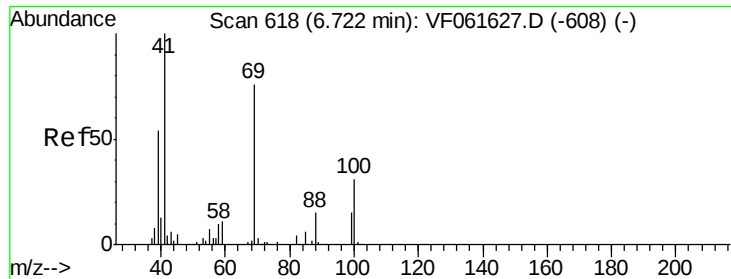


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

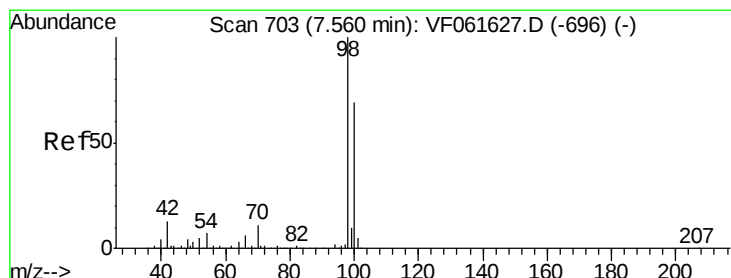
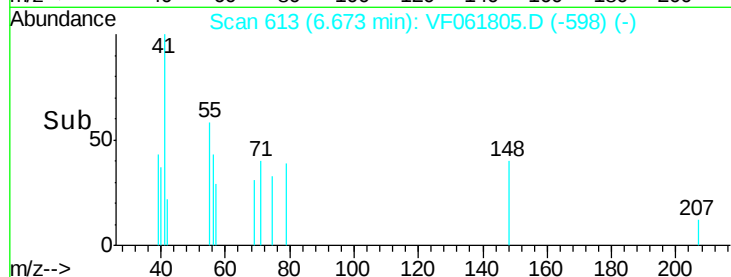
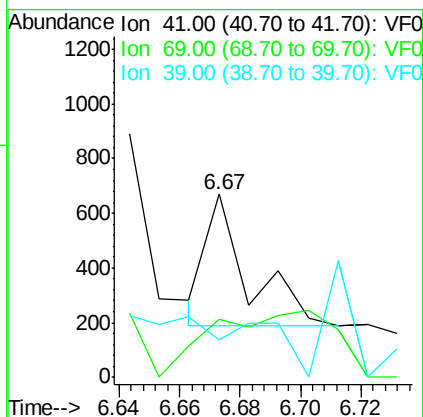
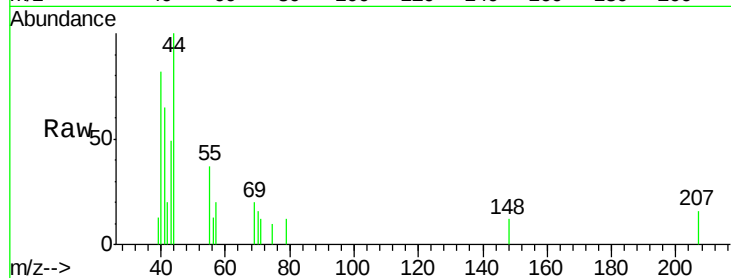




#48
Methvl methacrylate
Concen: 1.030 ug/l
RT: 6.67 min Scan# 613
Delta R.T. -0.05 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

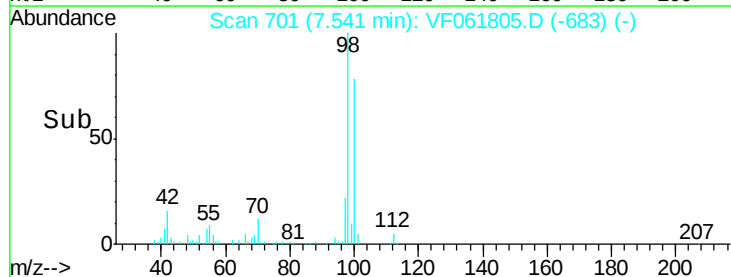
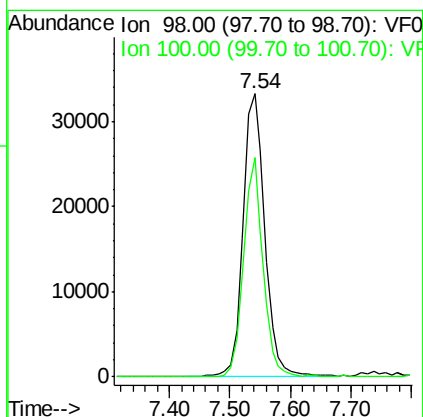
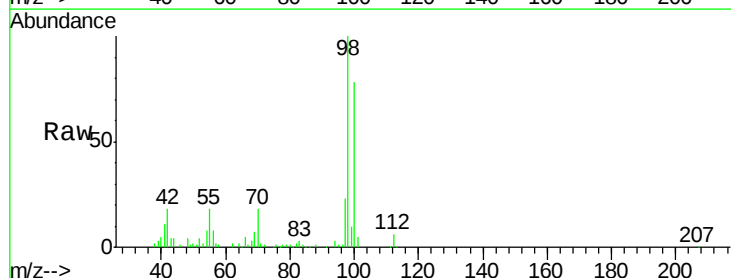
Instrument :
MSVOA_F
ClientSampleId :
HR-06-022719-A

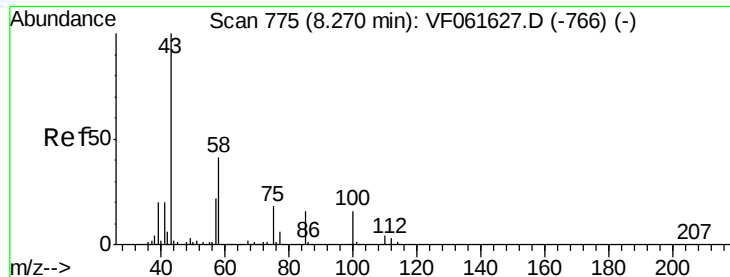
Tot Ion: 41 Resp: 468
Ion Ratio Lower Upper
41 100
69 31.6 60.4 90.6#
39 20.4 43.7 65.5#



#50
Toluene-d8
Concen: 28.218 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

Tgt Ion: 98 Resp: 83489
Ion Ratio Lower Upper
98 100
100 77.7 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 118.407 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

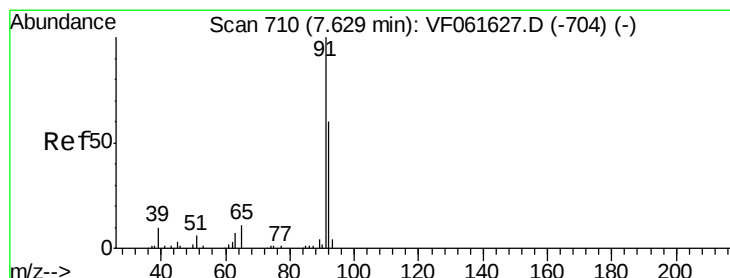
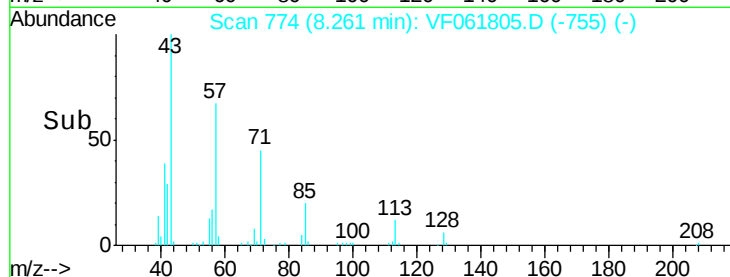
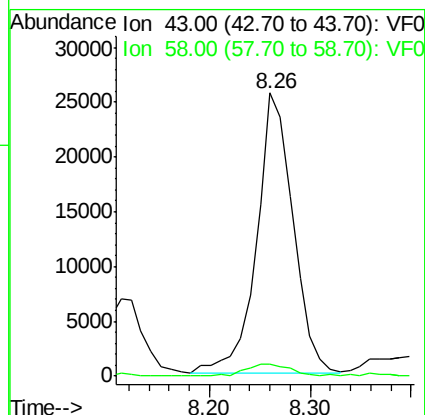
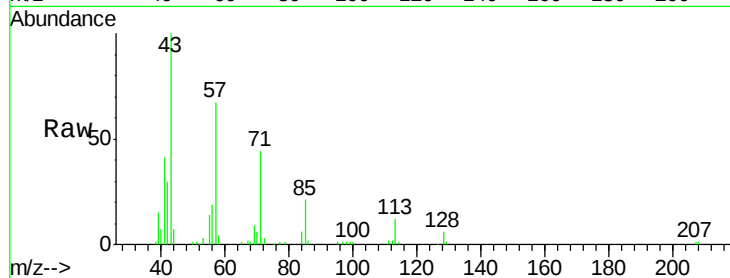
HR-06-022719-A

Tot Ion: 43 Resp: 63864

Ion Ratio Lower Upper

43 100

58 4.0 33.1 49.7#



#52

Toluene

Concen: 83.789 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061805.D

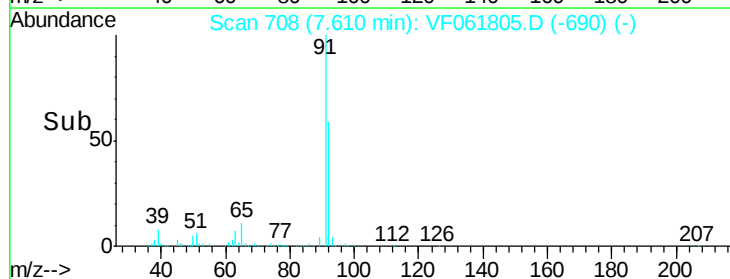
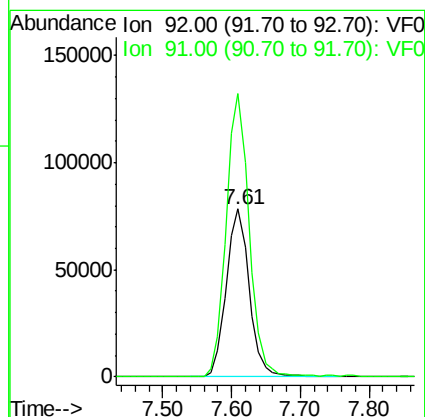
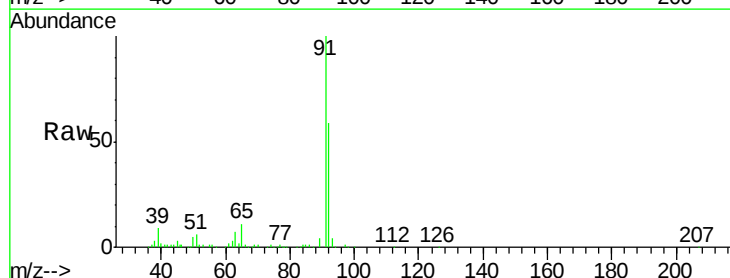
Acq: 1 Mar 2019 16:24

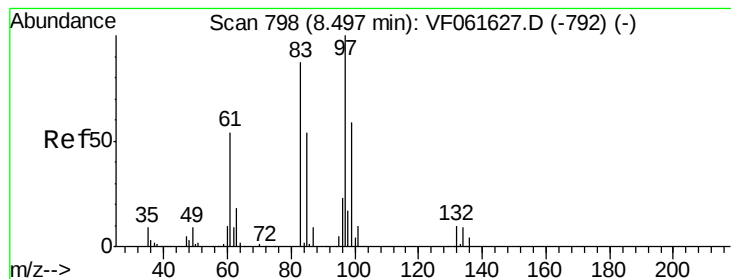
Tgt Ion: 92 Resp: 182491

Ion Ratio Lower Upper

92 100

91 168.5 133.9 200.9





#55

1,1,2-Trichloroethane

Concen: 1.653 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

HR-06-022719-A

Tot Ion: 97 Resp: 1058

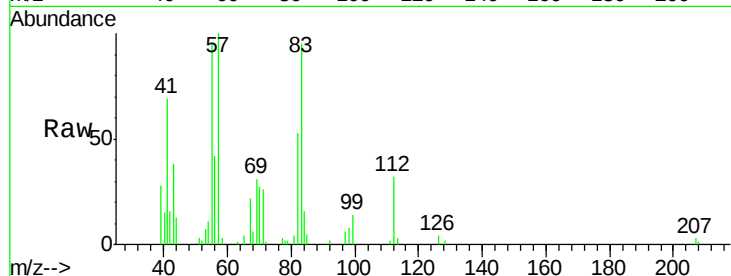
Ion Ratio Lower Upper

97 100

83 1463.1 69.2 103.8#

85 75.8 43.0 64.4#

99 210.9 47.2 70.8#

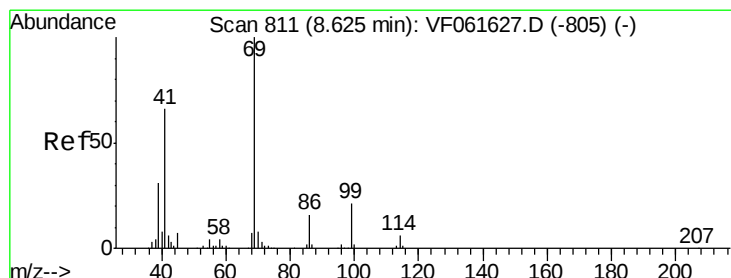
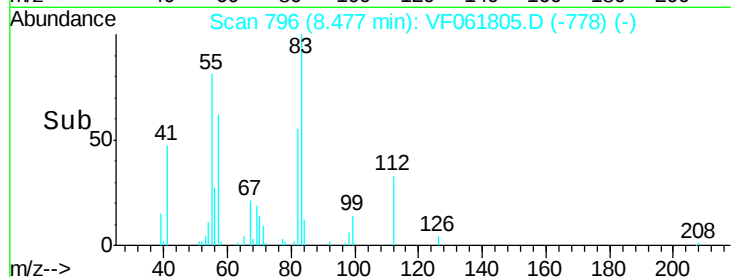
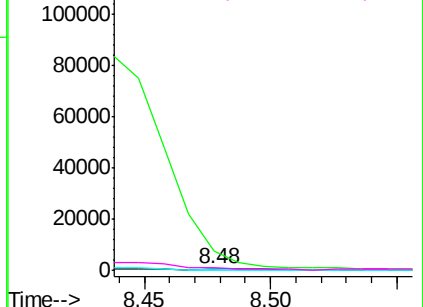


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 185.601 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

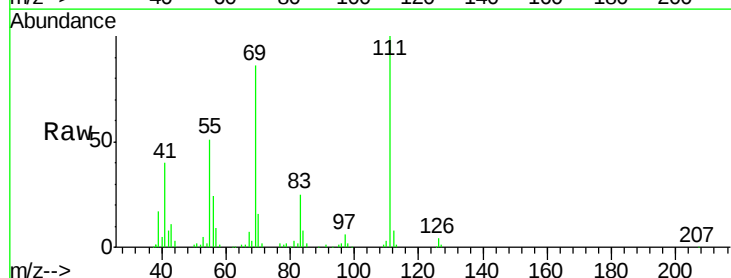
Tgt Ion: 69 Resp: 132232

Ion Ratio Lower Upper

69 100

41 46.5 52.9 79.3#

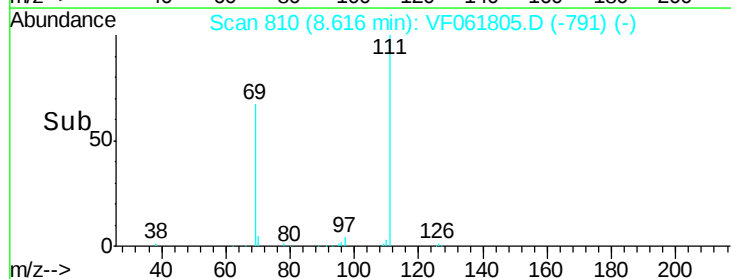
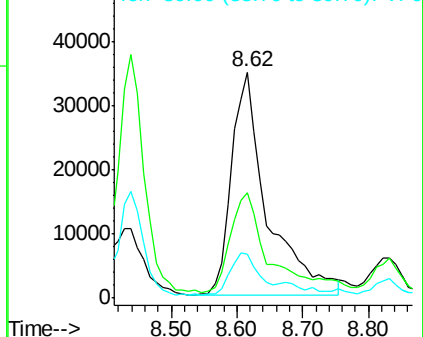
39 19.6 24.5 36.7#

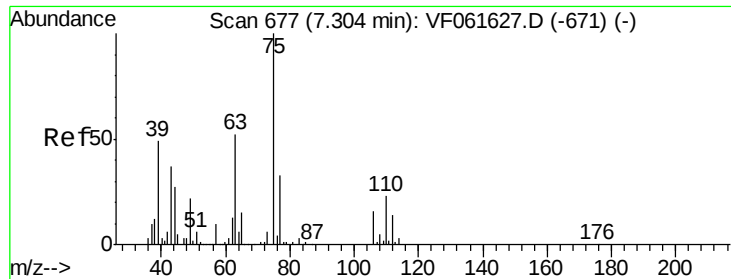


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

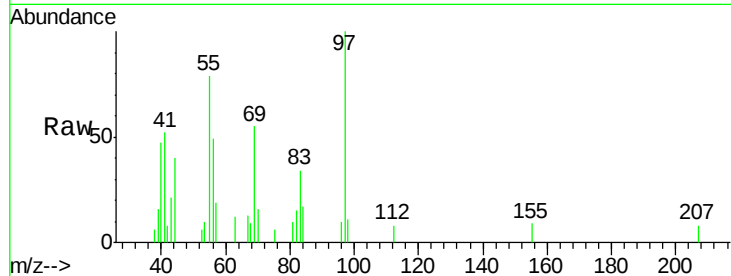




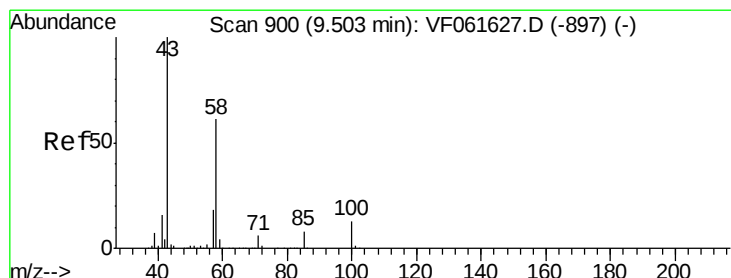
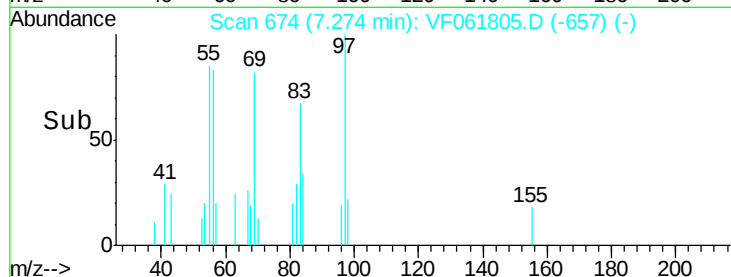
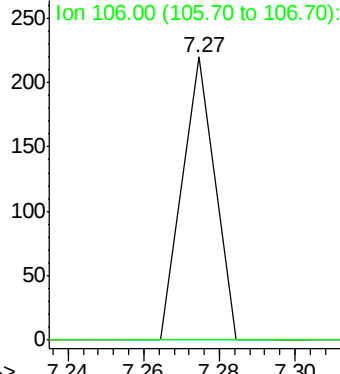
#58
 2-Chloroethyl Vinyl ether
 Concen: 1.058 ug/l
 RT: 7.27 min Scan# 674
 Delta R.T. -0.03 min
 Lab File: VF061805.D
 Acq: 1 Mar 2019 16:24

Instrument :
 MSVOA_F
 ClientSampleId :
 HR-06-022719-A

Tot Ion: 63 Resp: 130
 Ion Ratio Lower Upper
 63 100
 106 0.0 24.6 36.8#

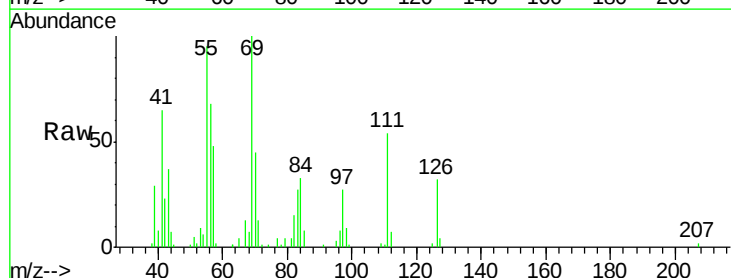


Abundance Ion 63.00 (62.70 to 63.70): VF0
 Ion 106.00 (105.70 to 106.70): V

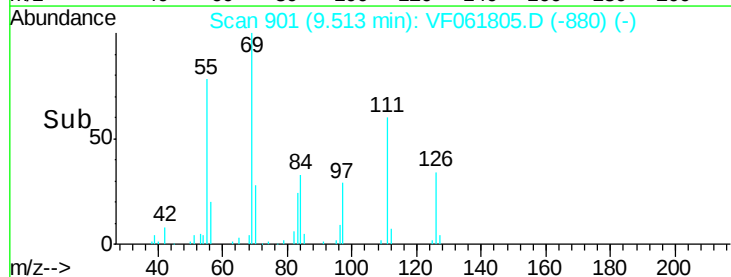
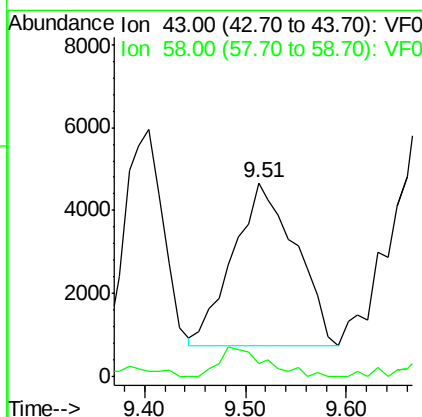


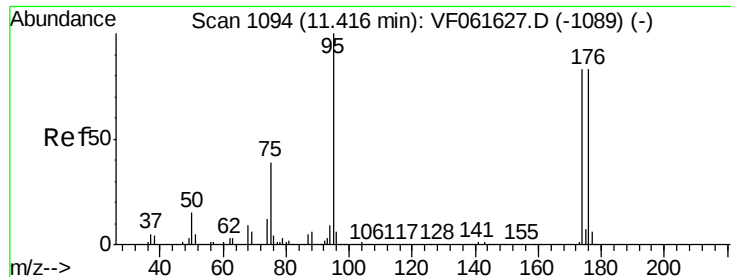
#59
 2-Hexanone
 Concen: 44.764 ug/l
 RT: 9.51 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VF061805.D
 Acq: 1 Mar 2019 16:24

Tgt Ion: 43 Resp: 16924
 Ion Ratio Lower Upper
 43 100
 58 6.6 28.5 85.5#



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





#62

4-Bromofluorobenzene

Concen: 207.373 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. 0.06 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

HR-06-022719-A

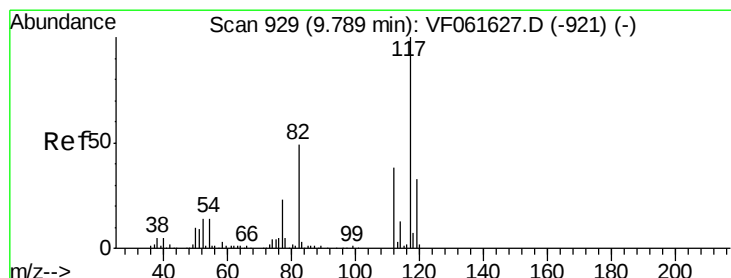
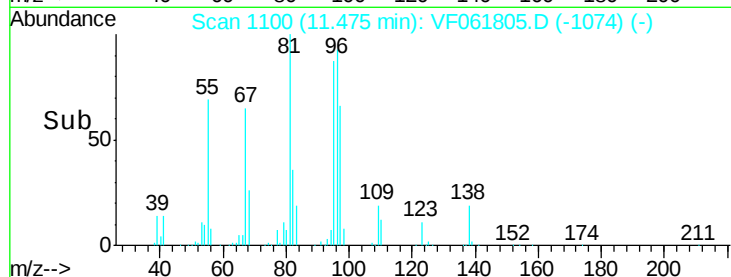
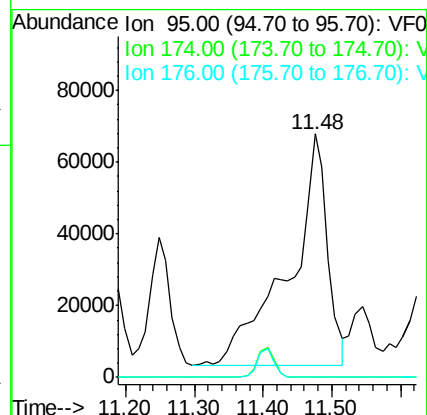
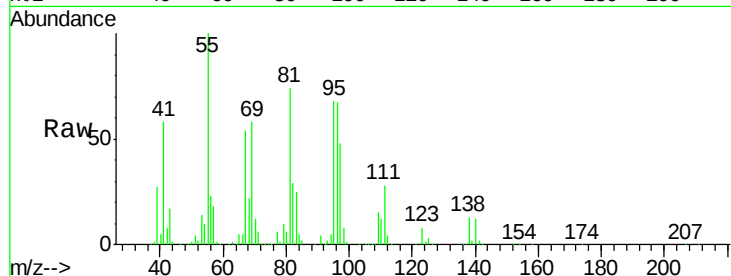
Tot Ion: 95 Resp: 248255

Ion Ratio Lower Upper

95 100

174 0.2 0.0 165.8

176 0.0 0.0 167.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.03 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

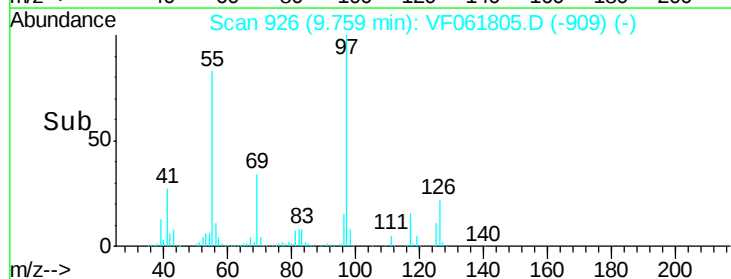
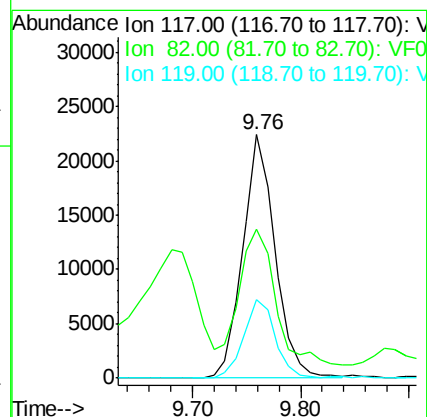
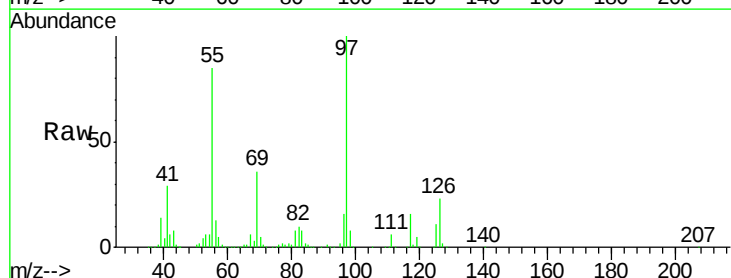
Tgt Ion: 117 Resp: 46536

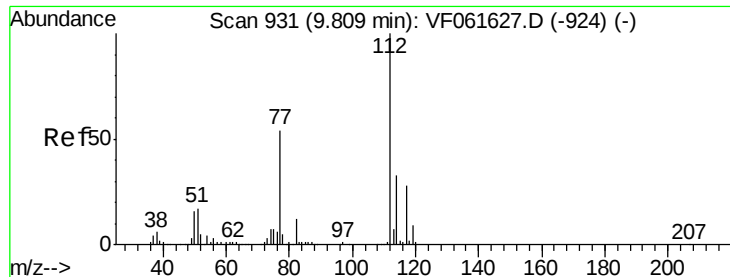
Ion Ratio Lower Upper

117 100

82 61.4 39.3 58.9#

119 32.2 26.6 40.0

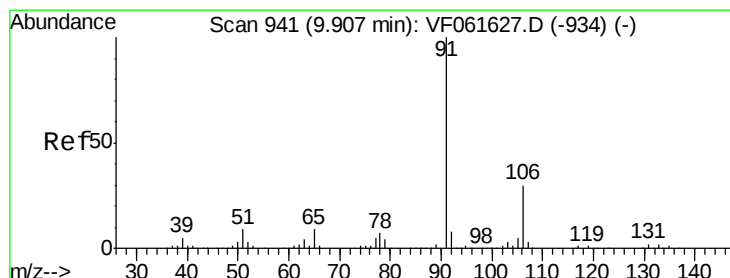
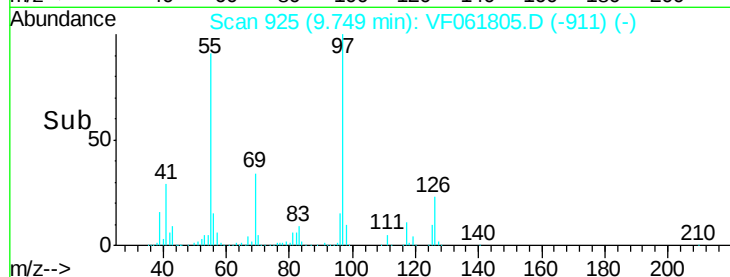
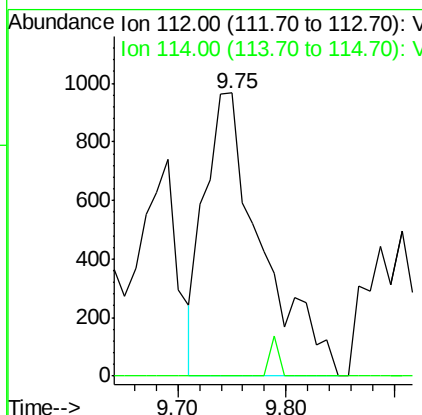
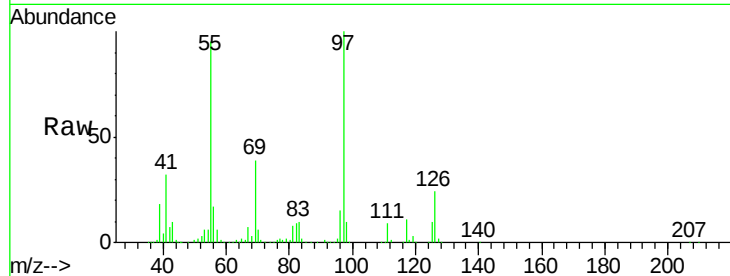




#65
Chlorobenzene
Concen: 3.761 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.06 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

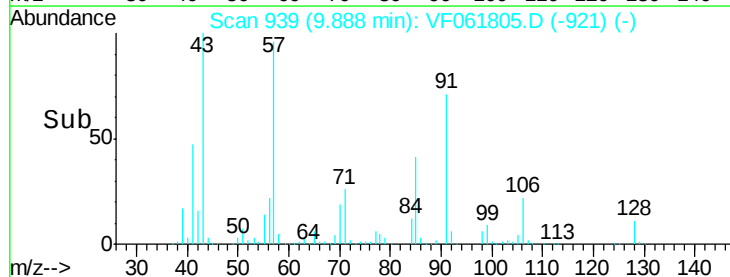
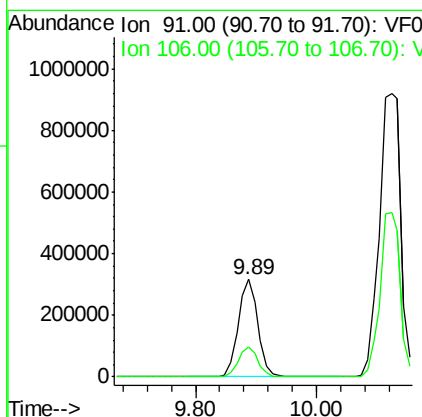
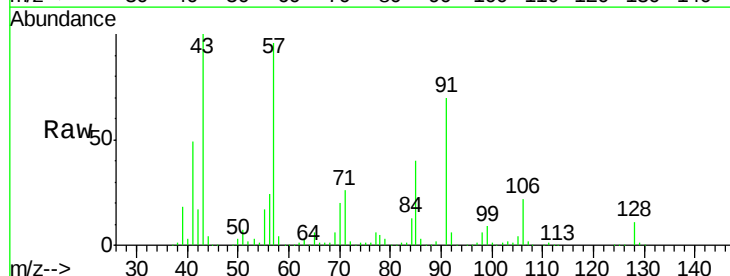
Instrument :
MSVOA_F
ClientSampleId :
HR-06-022719-A

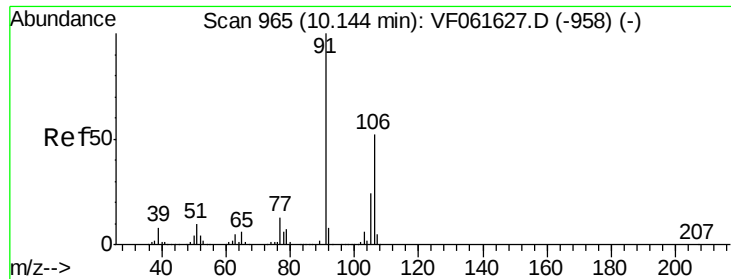
Tot Ion:112 Resp: 3552
Ion Ratio Lower Upper
112 100
114 0.0 26.2 39.2#



#67
Ethyl Benzene
Concen: 453.559 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.02 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

Tgt Ion: 91 Resp: 712268
Ion Ratio Lower Upper
91 100
106 30.6 24.1 36.1

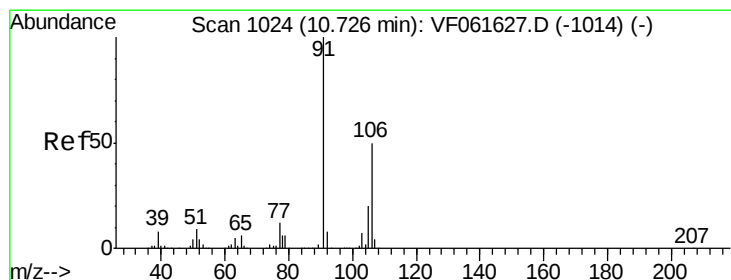
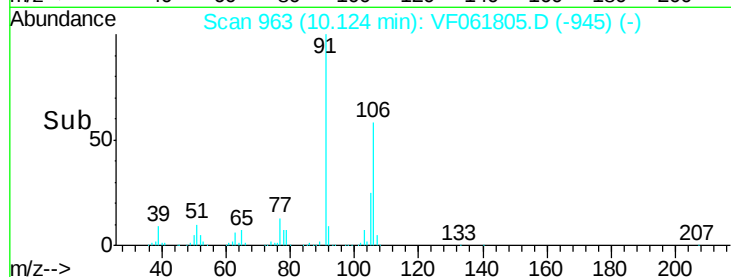
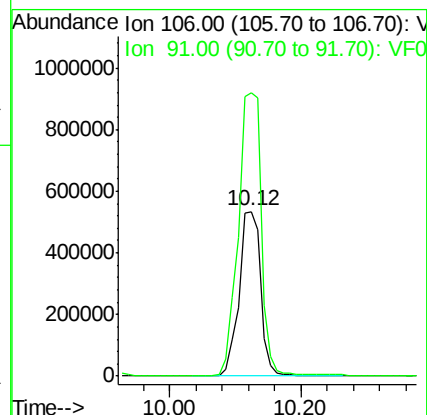
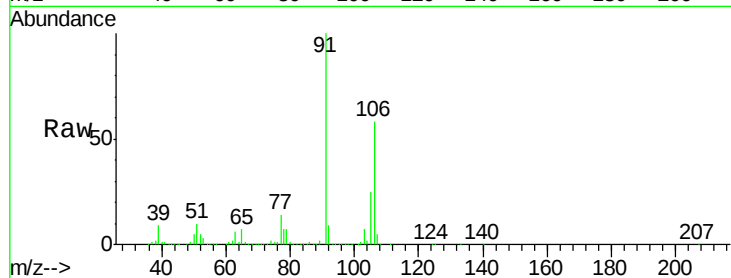




#68
m/p-Xvlenes
Concen: 2065.773 ug/l
RT: 10.12 min Scan# 963
Delta R.T. -0.02 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

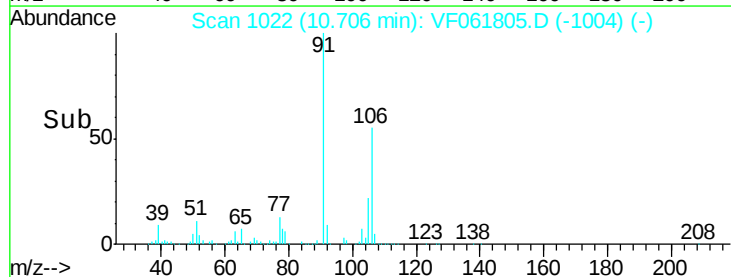
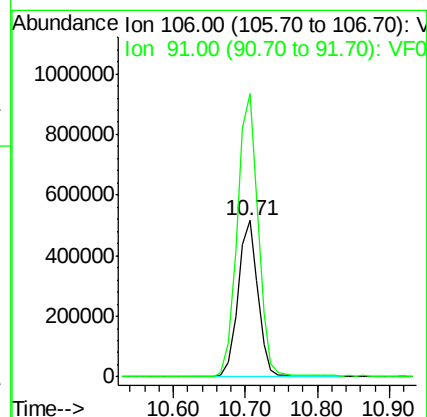
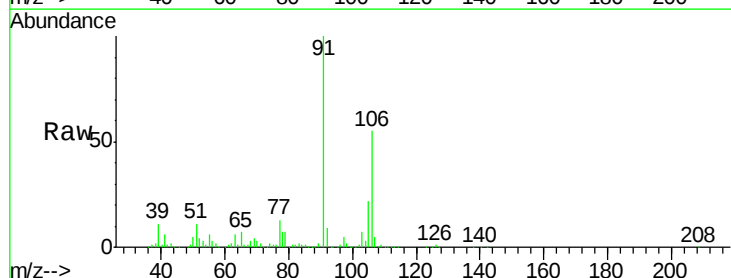
Instrument :
MSVOA_F
ClientSampleId :
HR-06-022719-A

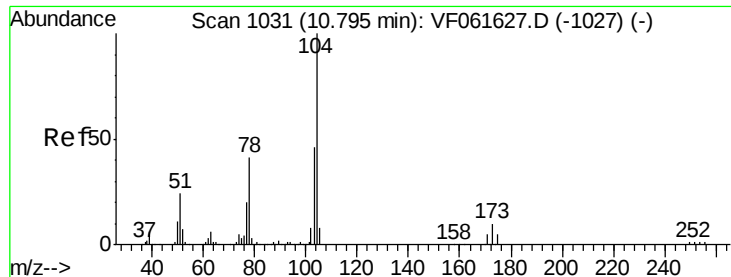
Tot Ion:106 Resp: 1241555
Ion Ratio Lower Upper
106 100
91 171.9 153.0 229.6



#69
o-Xylene
Concen: 1550.636 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.02 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

Tgt Ion:106 Resp: 994442
Ion Ratio Lower Upper
106 100
91 180.7 100.1 300.1

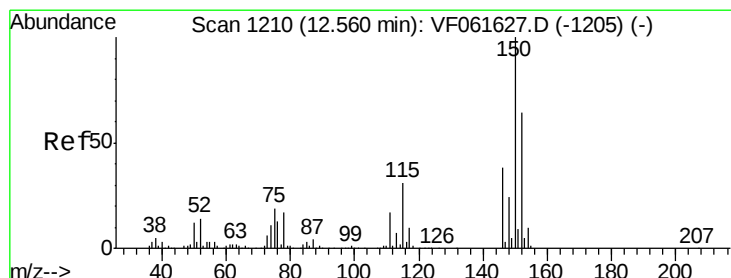
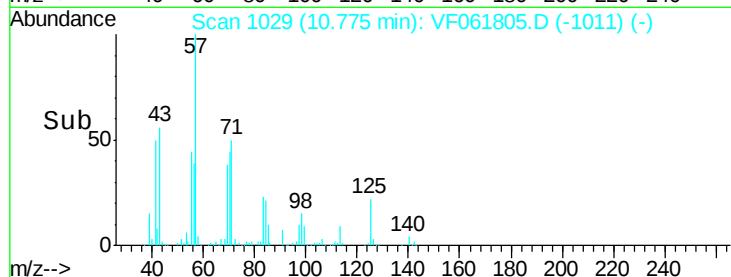
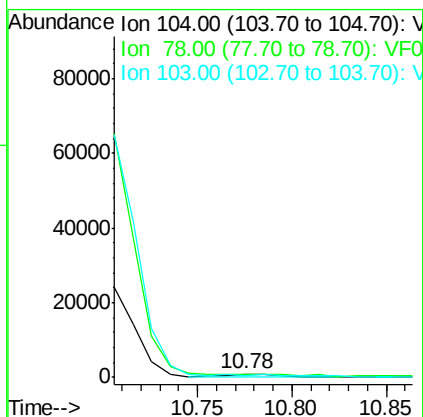
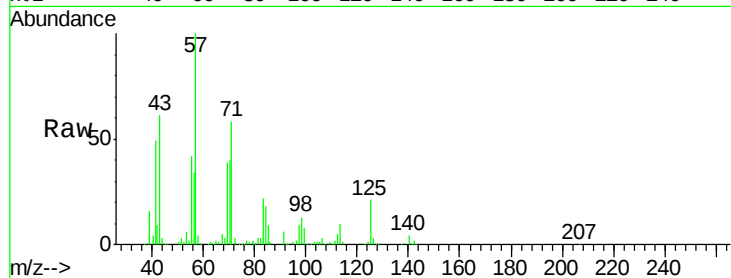




#70
Stvrene
Concen: 2.185 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

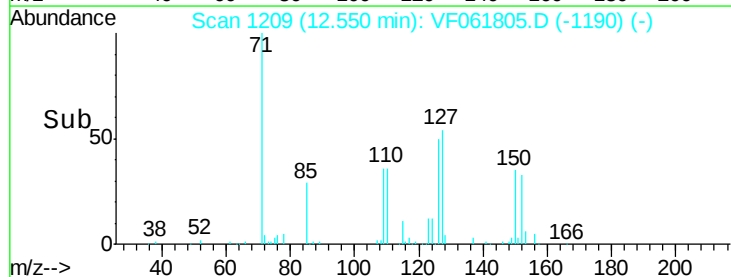
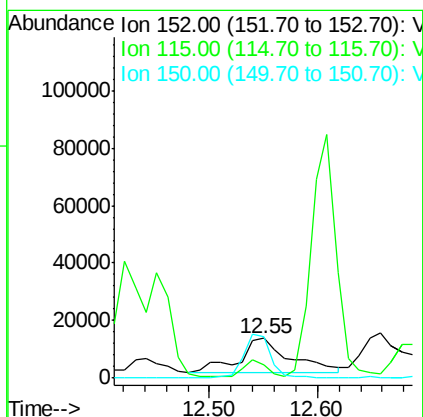
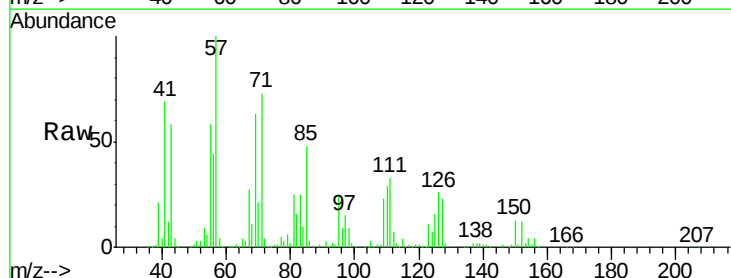
Instrument :
MSVOA_F
ClientSampleId :
HR-06-022719-A

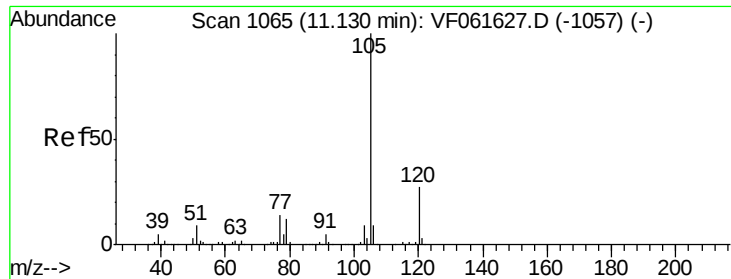
Tot Ion:104 Resp: 1982
Ion Ratio Lower Upper
104 100
78 110.3 33.2 49.8#
103 70.6 37.2 55.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

Tgt Ion:152 Resp: 39222
Ion Ratio Lower Upper
152 100
115 34.5 24.3 72.8
150 103.6 0.0 312.0

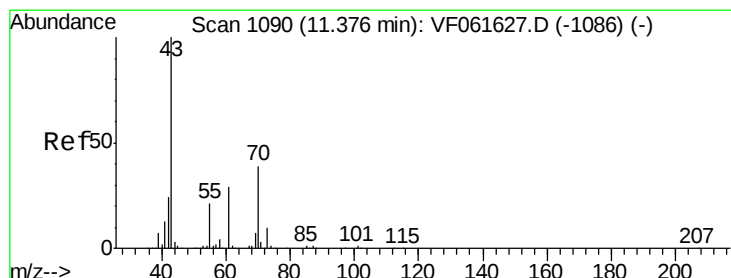
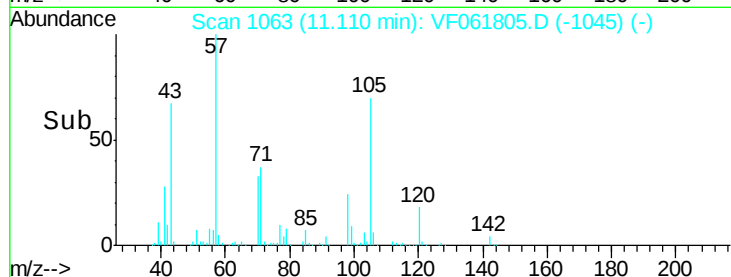
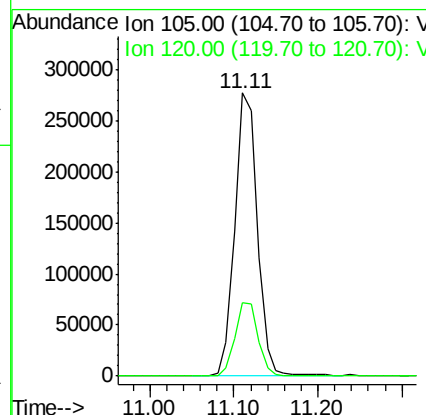
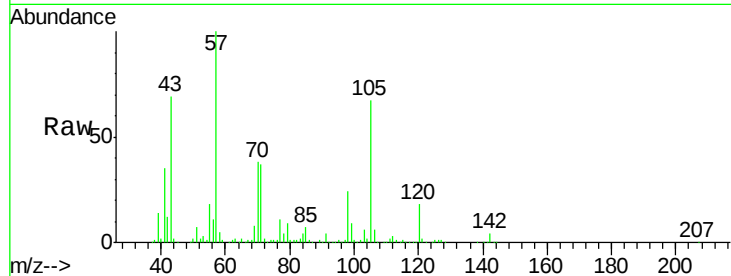




#73
Isopropylbenzene
Concen: 184.651 ug/l
RT: 11.11 min Scan# 1063
Delta R.T. -0.02 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

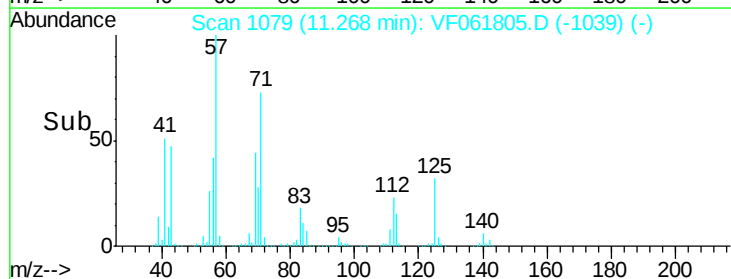
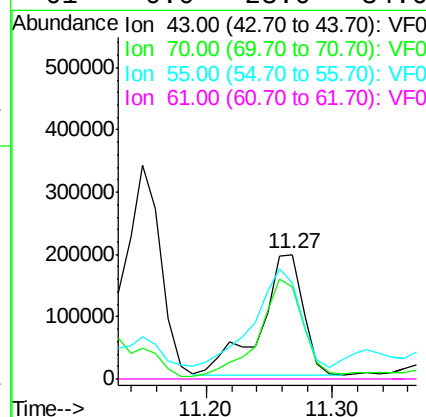
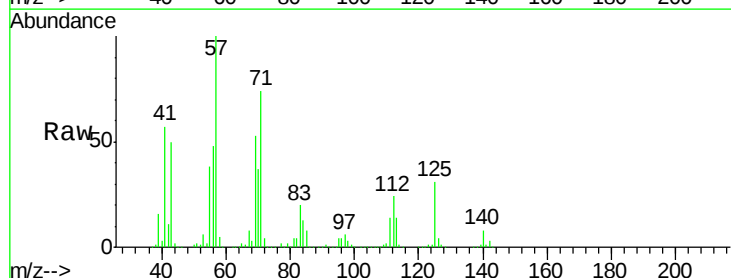
Instrument :
MSVOA_F
ClientSampleId :
HR-06-022719-A

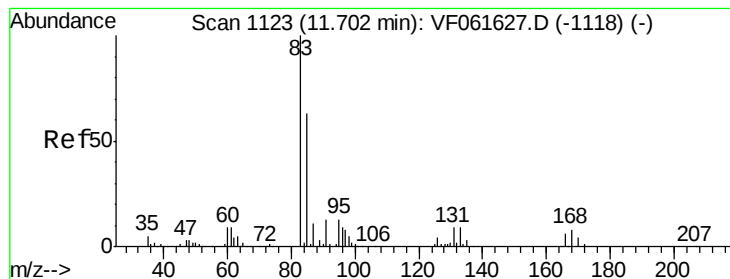
Tot Ion:105 Resp: 515644
Ion Ratio Lower Upper
105 100
120 26.1 13.4 40.1



#74
N-ethyl acetate
Concen: 686.240 ug/l
RT: 11.27 min Scan# 1079
Delta R.T. -0.11 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

Tgt Ion: 43 Resp: 459970
Ion Ratio Lower Upper
43 100
70 73.7 31.5 47.3#
55 76.6 16.7 25.1#
61 0.0 23.0 34.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 235.279 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

HR-06-022719-A

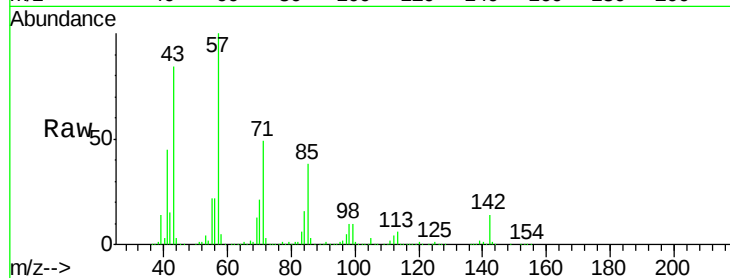
Tot Ion: 83 Resp: 117708

Ion Ratio Lower Upper

83 100

131 0.0 4.4 13.2#

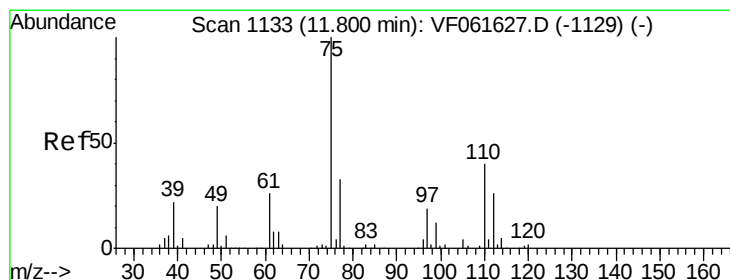
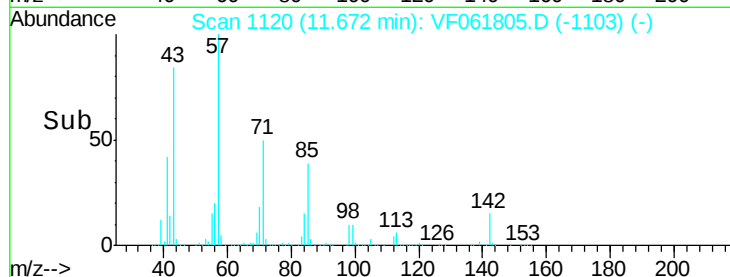
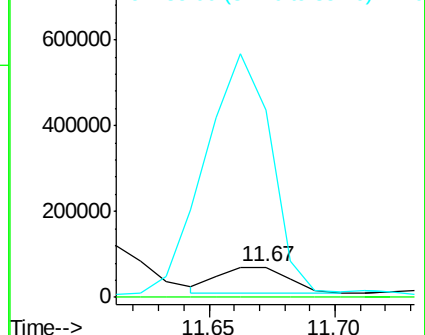
85 623.8 31.5 94.5#



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: 48.609 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.02 min

Lab File: VF061805.D

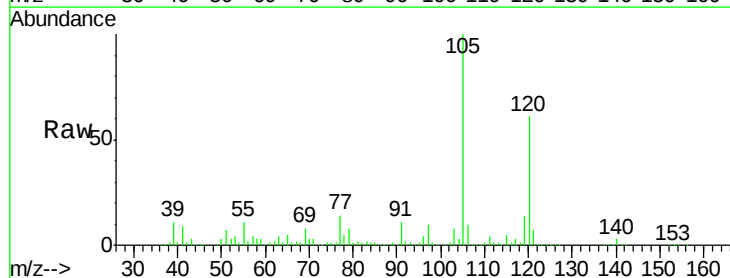
Acq: 1 Mar 2019 16:24

Tgt Ion: 75 Resp: 16534

Ion Ratio Lower Upper

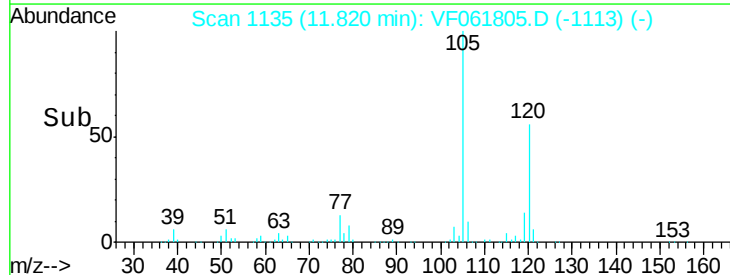
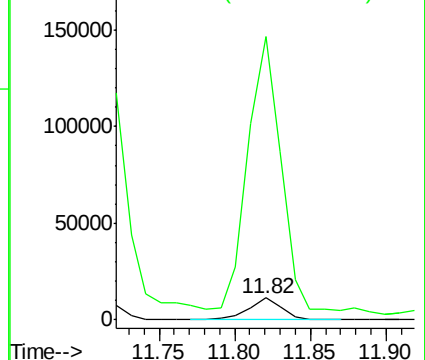
75 100

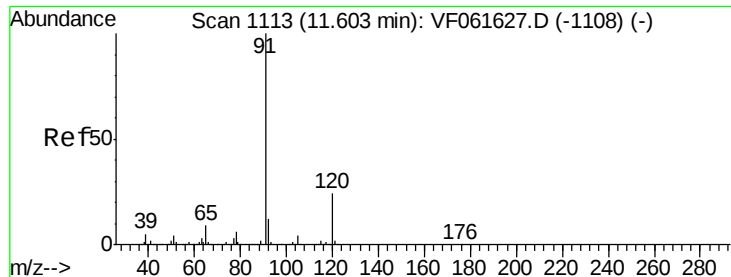
77 1299.1 16.6 49.7#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 408.587 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

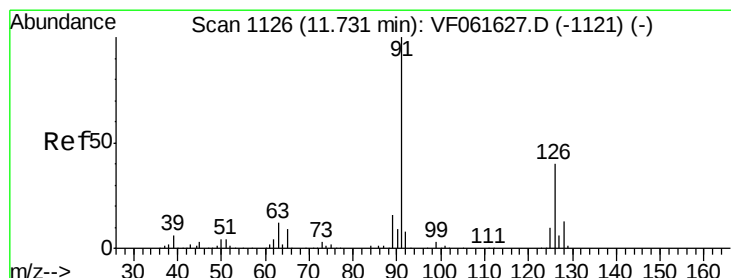
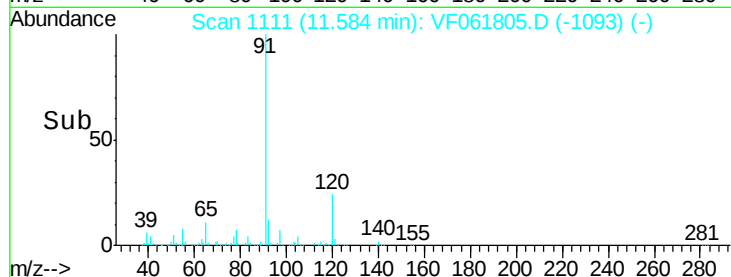
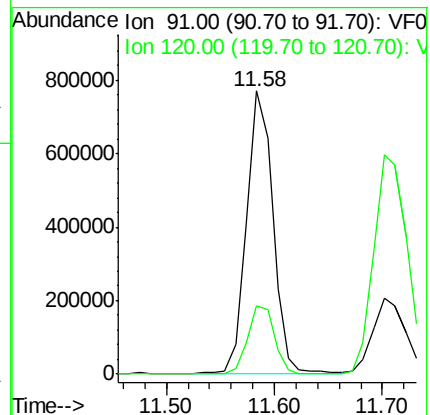
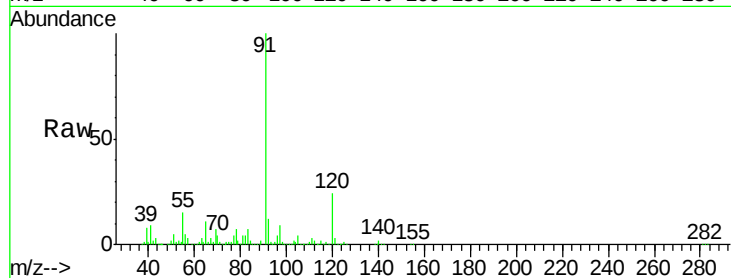
HR-06-022719-A

Tot Ion: 91 Resp: 1309322

Ion Ratio Lower Upper

91 100

120 24.3 12.1 36.3



#79

2-Chlorotoluene

Concen: 234.485 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061805.D

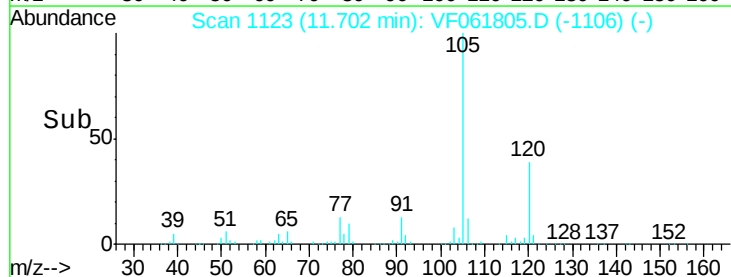
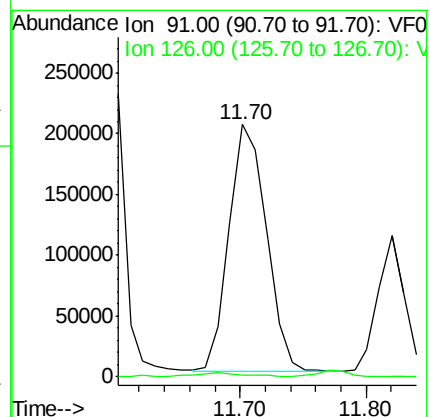
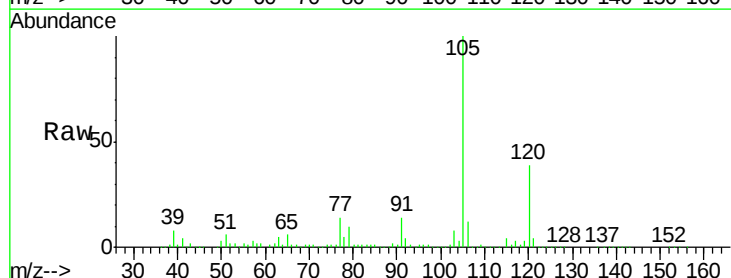
Acq: 1 Mar 2019 16:24

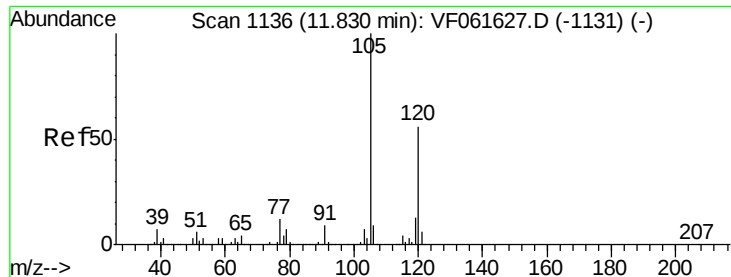
Tgt Ion: 91 Resp: 420828

Ion Ratio Lower Upper

91 100

126 0.8 19.8 59.4#





#80

1,3,5-Trimethylbenzene

Concen: 769.919 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

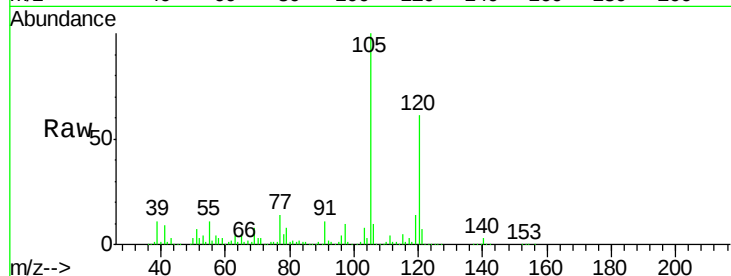
HR-06-022719-A

Tot Ion:105 Resp: 1718383

Ion Ratio Lower Upper

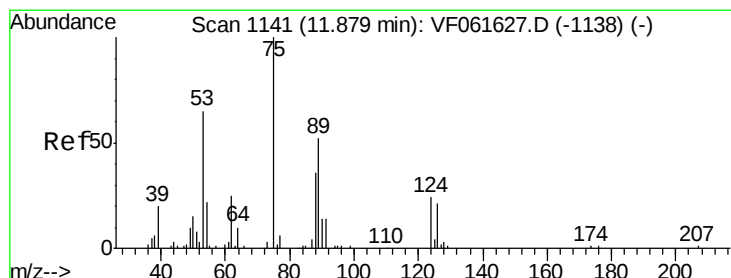
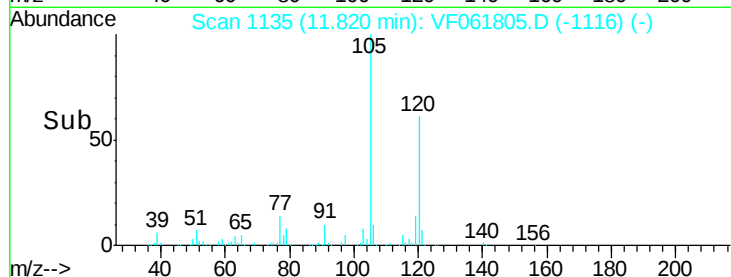
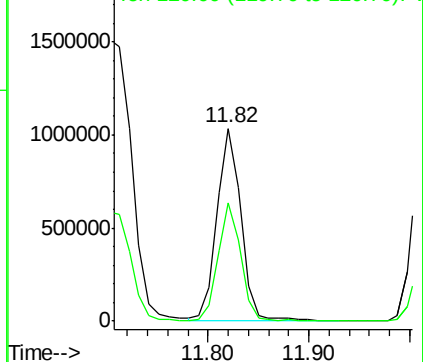
105 100

120 61.2 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 100.050 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.06 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

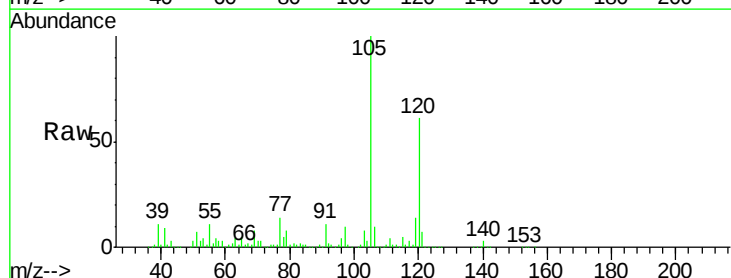
Tgt Ion: 75 Resp: 16315

Ion Ratio Lower Upper

75 100

53 345.9 53.7 80.5#

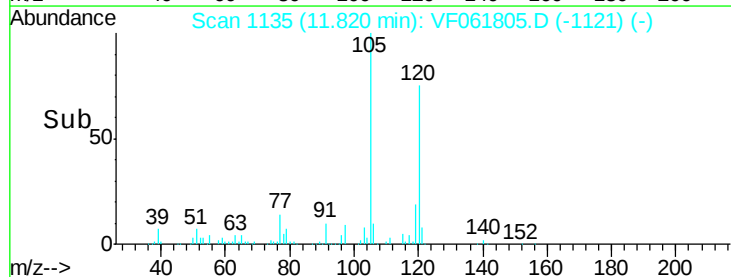
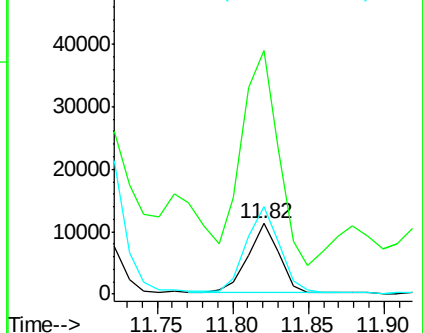
89 124.2 41.6 62.4#

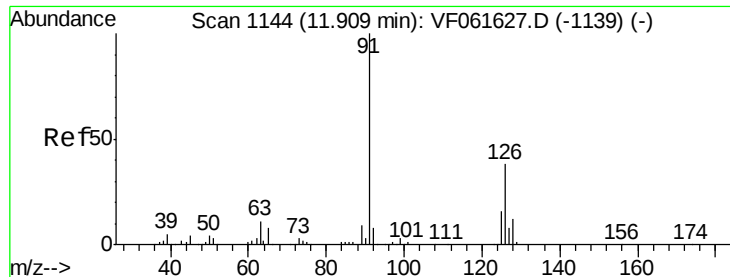


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#82

4-Chlorotoluene

Concen: 94.012 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.09 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

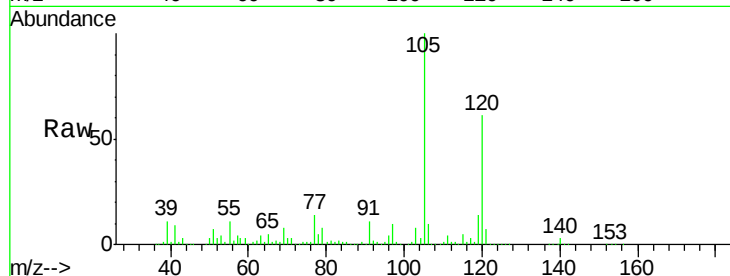
HR-06-022719-A

Tot Ion: 91 Resp: 175125

Ion Ratio Lower Upper

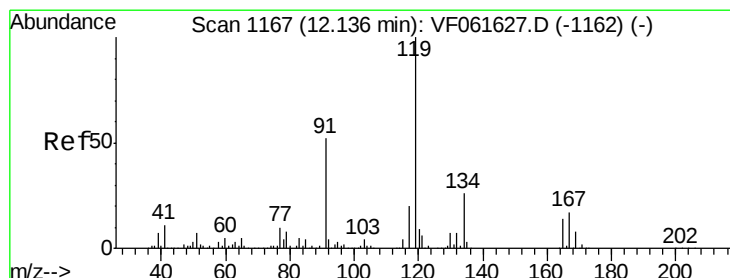
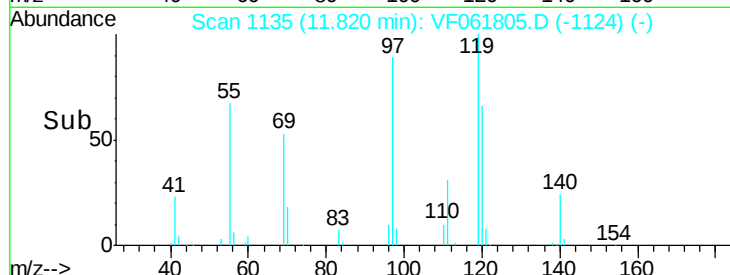
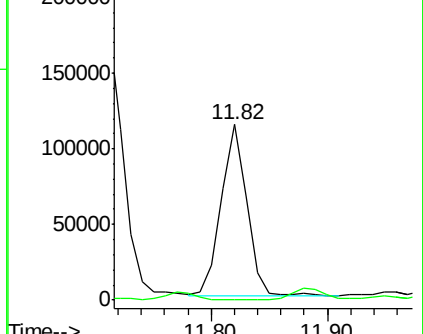
91 100

126 0.6 19.1 57.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#83

tert-Butylbenzene

Concen: 25.419 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

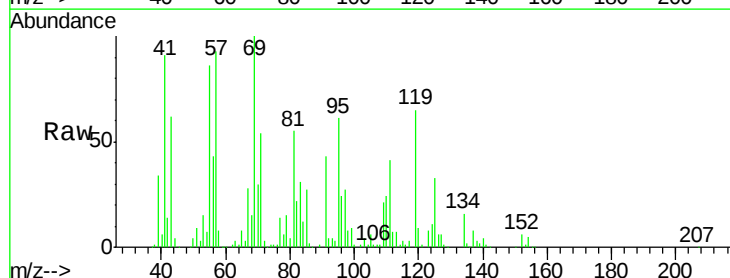
Tgt Ion: 119 Resp: 62838

Ion Ratio Lower Upper

119 100

91 65.6 26.3 78.8

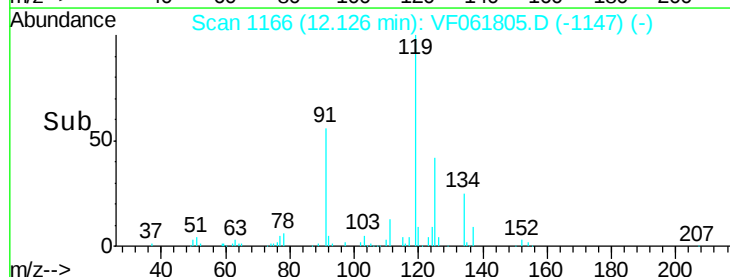
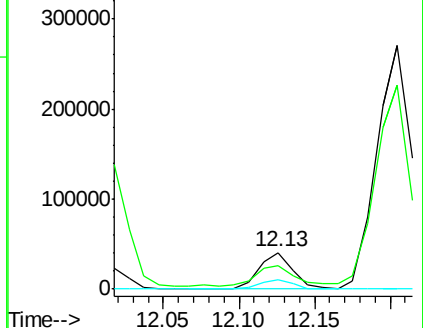
134 24.9 12.9 38.7

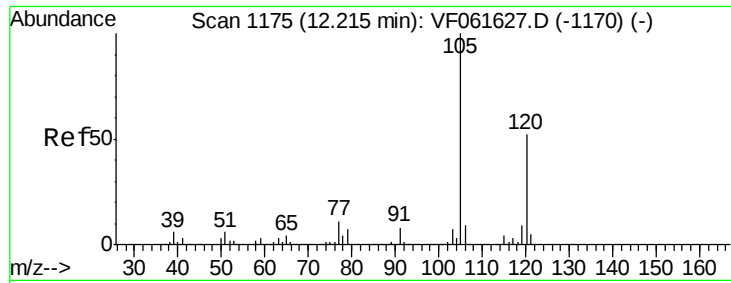


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



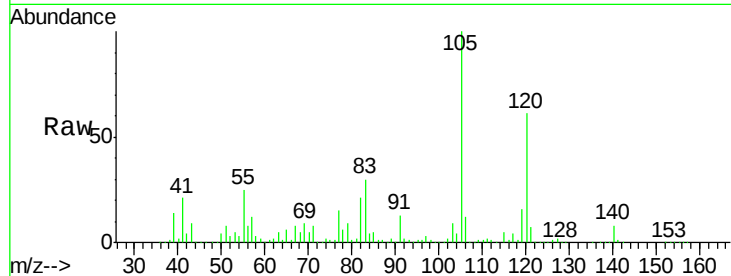


#84

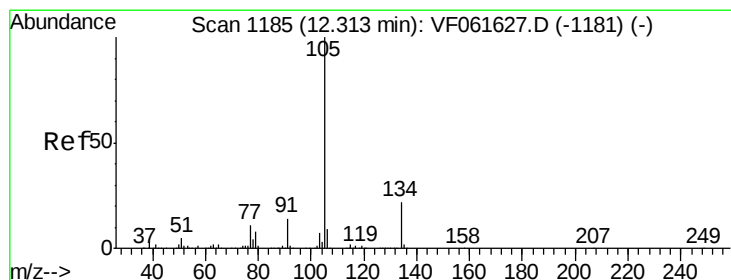
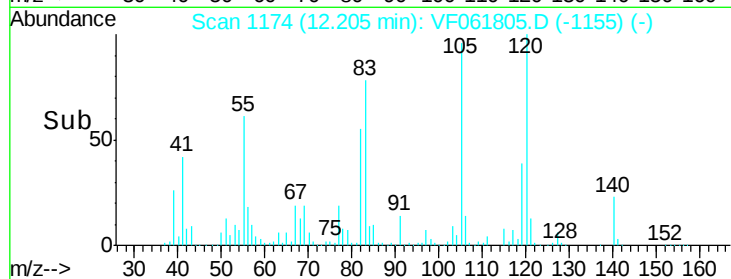
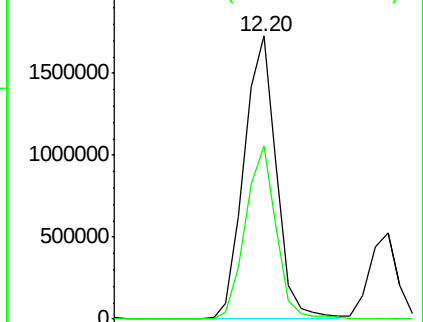
1,2,4-Trimethylbenzene
Concen: 1380.347 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

Instrument :
MSVOA_F
ClientSampleId :
HR-06-022719-A

Tot Ion:105 Resp: 3060730
Ion Ratio Lower Upper
105 100
120 61.1 26.1 78.3



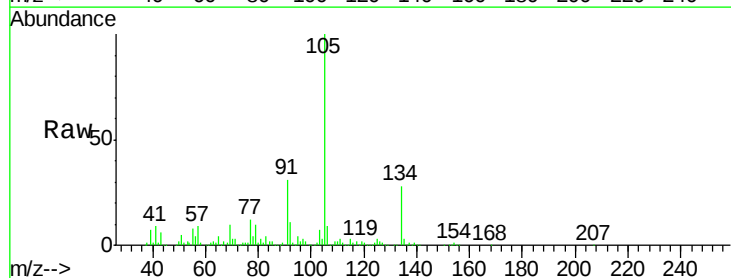
Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



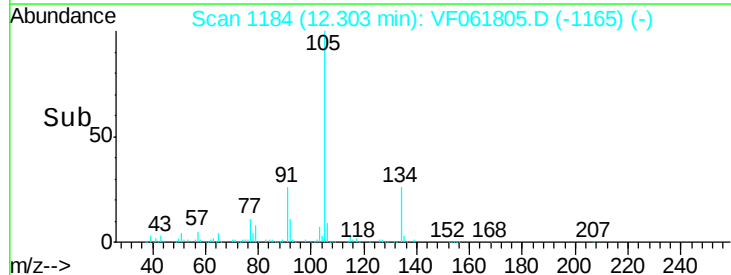
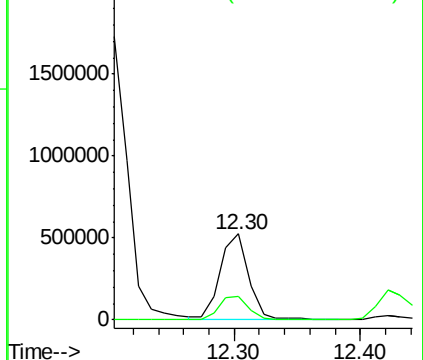
#85

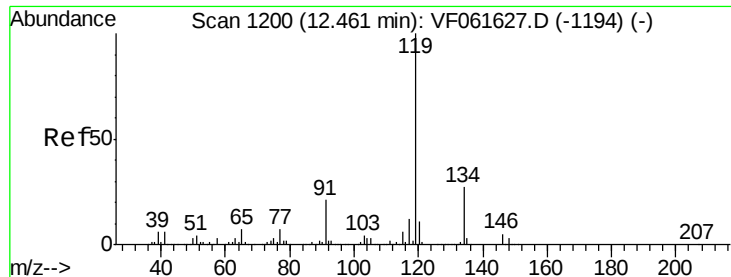
sec-Butylbenzene
Concen: 255.467 ug/l
RT: 12.30 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

Tgt Ion:105 Resp: 816671
Ion Ratio Lower Upper
105 100
134 27.6 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V

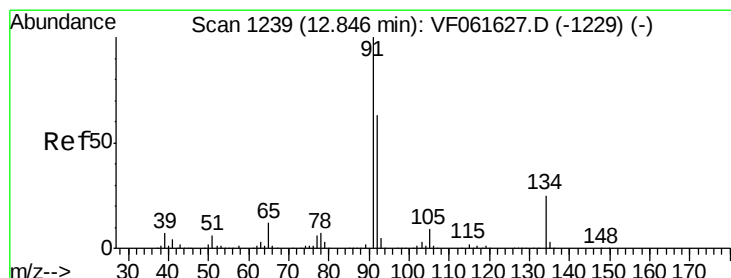
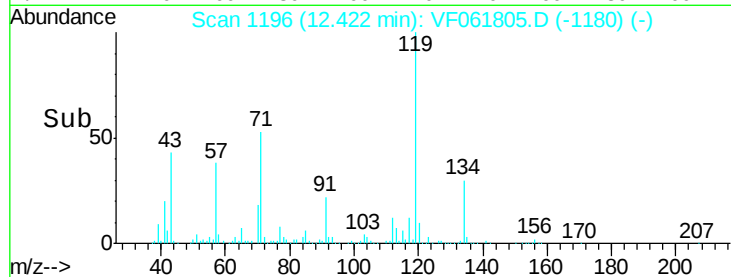
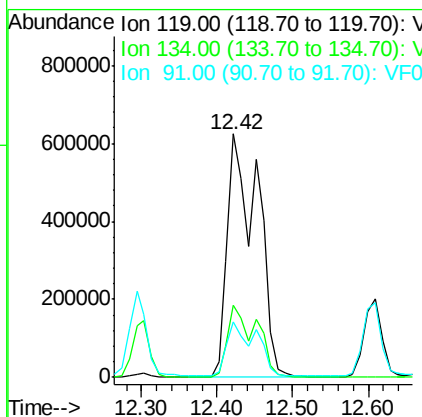
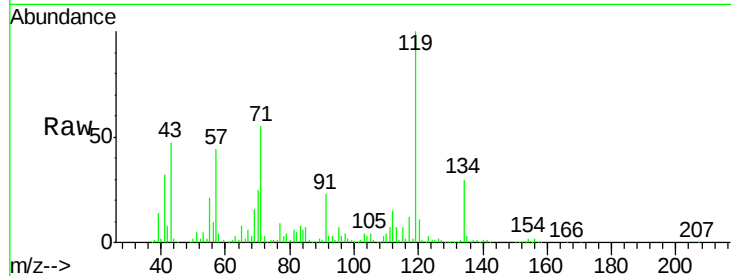




#86
p-Isopropyltoluene
Concen: 644.749 ug/l
RT: 12.42 min Scan# 1196
Delta R.T. -0.04 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

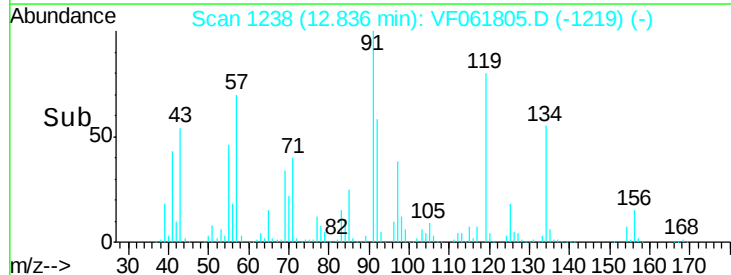
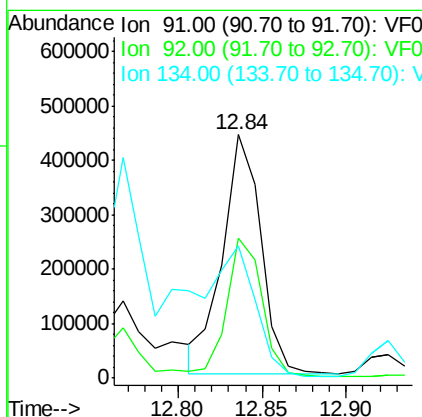
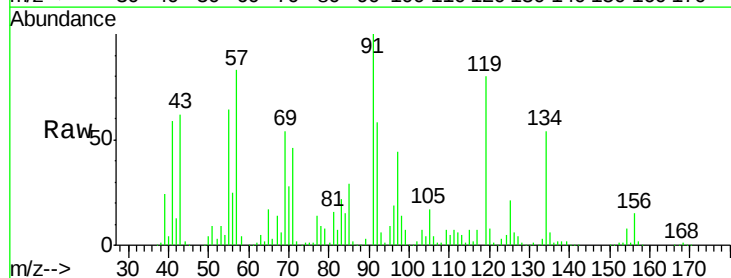
Instrument :
MSVOA_F
ClientSampleId :
HR-06-022719-A

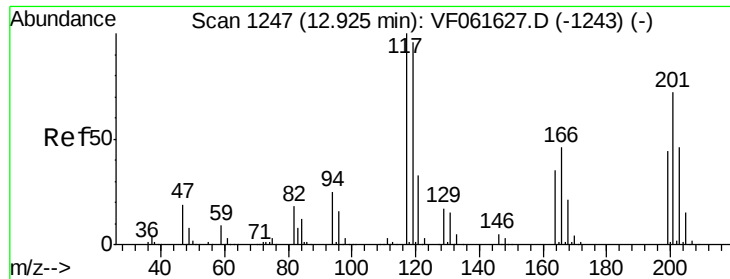
Tot Ion:119 Resp: 1729782
Ion Ratio Lower Upper
119 100
134 29.7 13.7 41.1
91 22.8 10.8 32.4



#89
n-Butylbenzene
Concen: 276.042 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061805.D
Acq: 1 Mar 2019 16:24

Tgt Ion: 91 Resp: 699322
Ion Ratio Lower Upper
91 100
92 57.7 31.4 94.3
134 54.4 12.3 36.9#





#90

Hexachloroethane

Concen: 58.864 ug/l

RT: 12.92 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

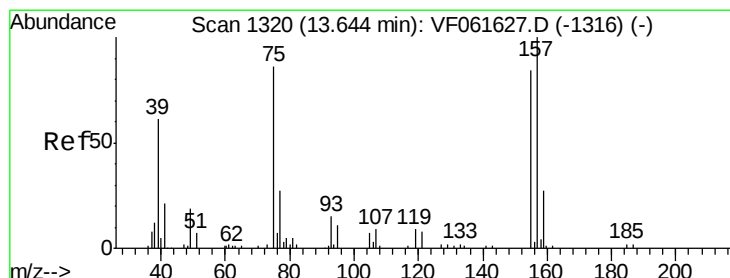
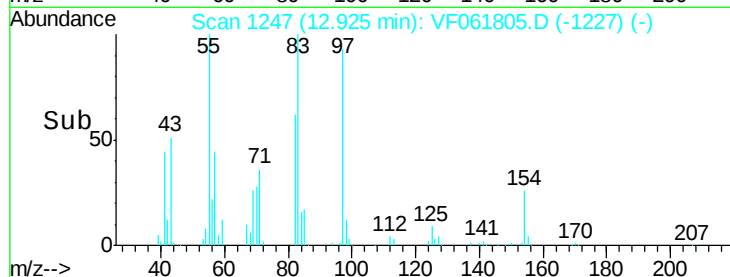
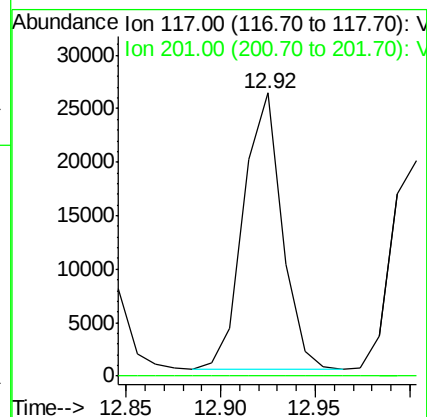
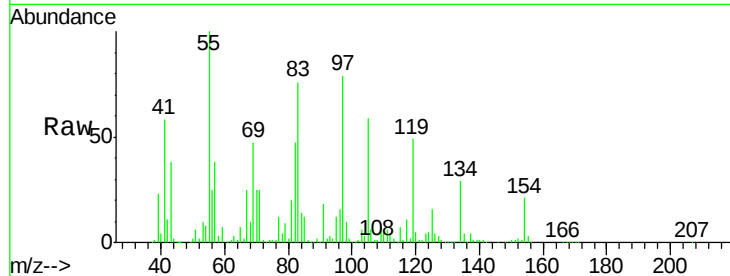
HR-06-022719-A

Tot Ion:117 Resp: 36729

Ion Ratio Lower Upper

117 100

201 0.0 36.2 108.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 43.974 ug/l

RT: 13.63 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VF061805.D

Acq: 1 Mar 2019 16:24

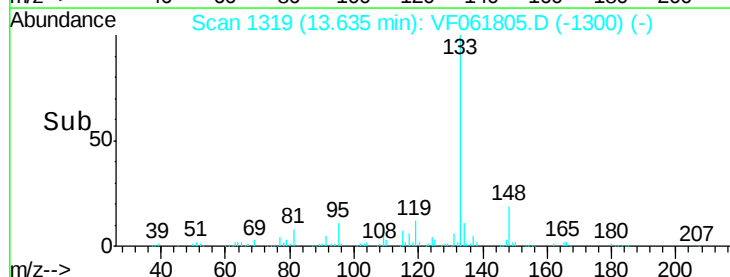
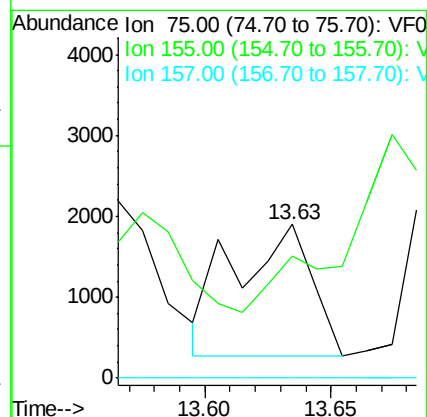
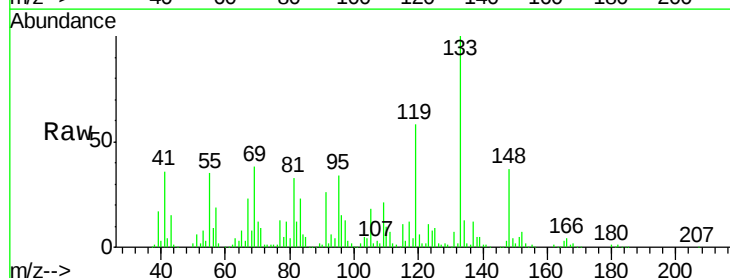
Tgt Ion: 75 Resp: 3488

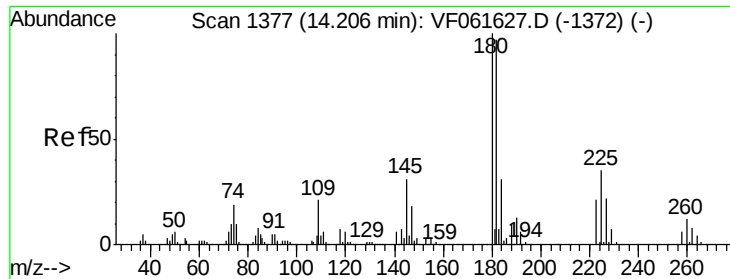
Ion Ratio Lower Upper

75 100

155 79.7 48.9 146.8

157 0.0 58.3 174.8#

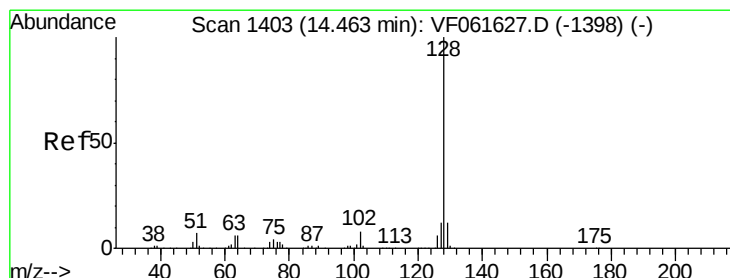
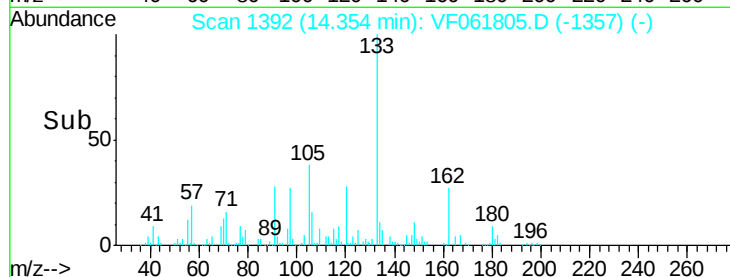
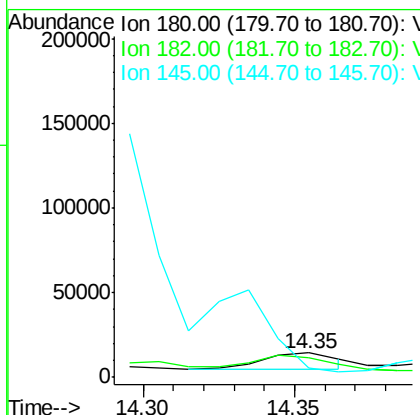
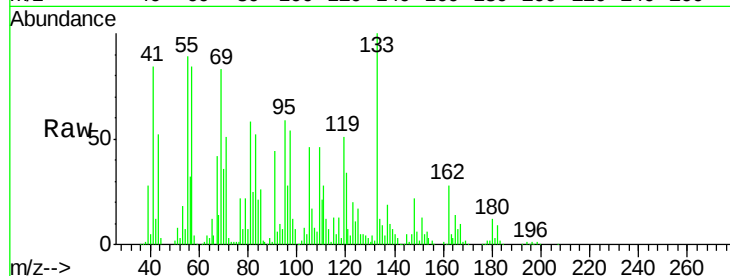




#93
 1,2,4-Trichlorobenzene
 Concen: 16.736 ug/l
 RT: 14.35 min Scan# 1392
 Delta R.T. 0.15 min
 Lab File: VF061805.D
 Acq: 1 Mar 2019 16:24

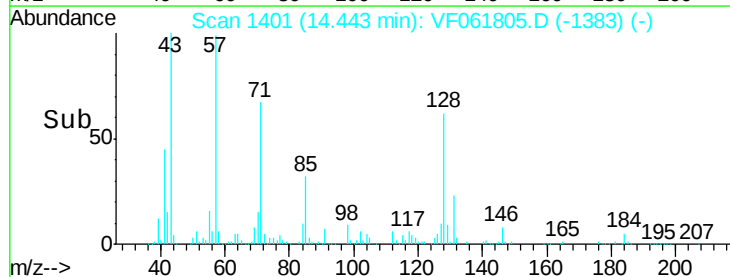
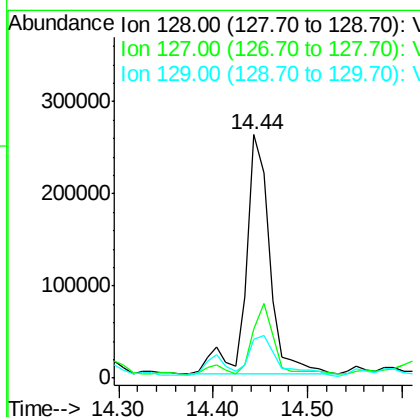
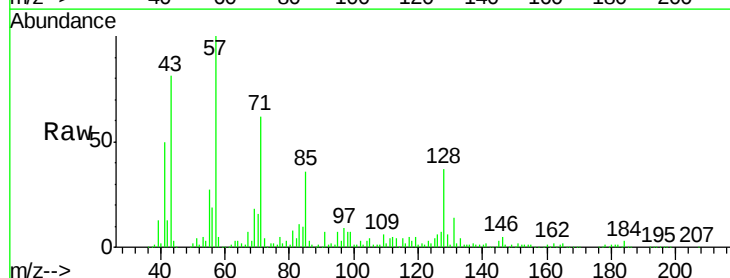
Instrument :
 MSVOA_F
 ClientSampleId :
 HR-06-022719-A

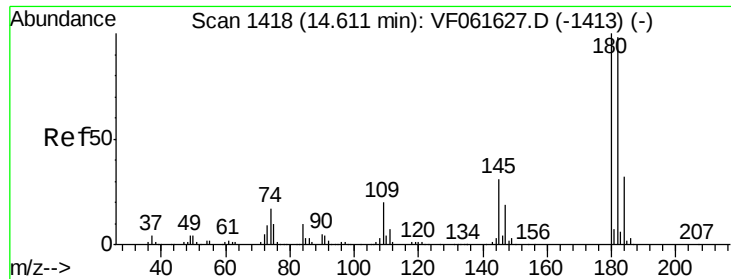
Tot Ion:180 Resp: 15346
 Ion Ratio Lower Upper
 180 100
 182 80.5 48.6 145.9
 145 39.0 15.3 45.9



#95
 Naphthalene
 Concen: 286.576 ug/l
 RT: 14.44 min Scan# 1401
 Delta R.T. -0.02 min
 Lab File: VF061805.D
 Acq: 1 Mar 2019 16:24

Tgt Ion:128 Resp: 459749
 Ion Ratio Lower Upper
 128 100
 127 20.4 9.8 14.6#
 129 16.1 9.4 14.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 18.610 ug/l
 RT: 14.60 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: VF061805.D
 Acq: 1 Mar 2019 16:24

Instrument :
 MSVOA_F
 ClientSampleId :
 HR-06-022719-A

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	44.2	49.0	147.2#	
145	48.0	15.4	46.1#	

