

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111618\
 Data File : VD060406.D
 Acq On : 16 Nov 2018 19:00
 Operator : JC/SY
 Sample : J5970-02
 Misc : 7.425g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-028-A

Quant Time: Nov 17 03:02:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1314391	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.46	114	1862361	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.29	117	1388680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	571172	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.80	65	296077	31.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.92%	
35) Dibromofluoromethane	6.33	113	440404	31.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	63.42%	
50) Toluene-d8	9.46	98	1213293	29.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.70%	
62) 4-Bromofluorobenzene	12.44	95	402850	27.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	54.70%	

Target Compounds

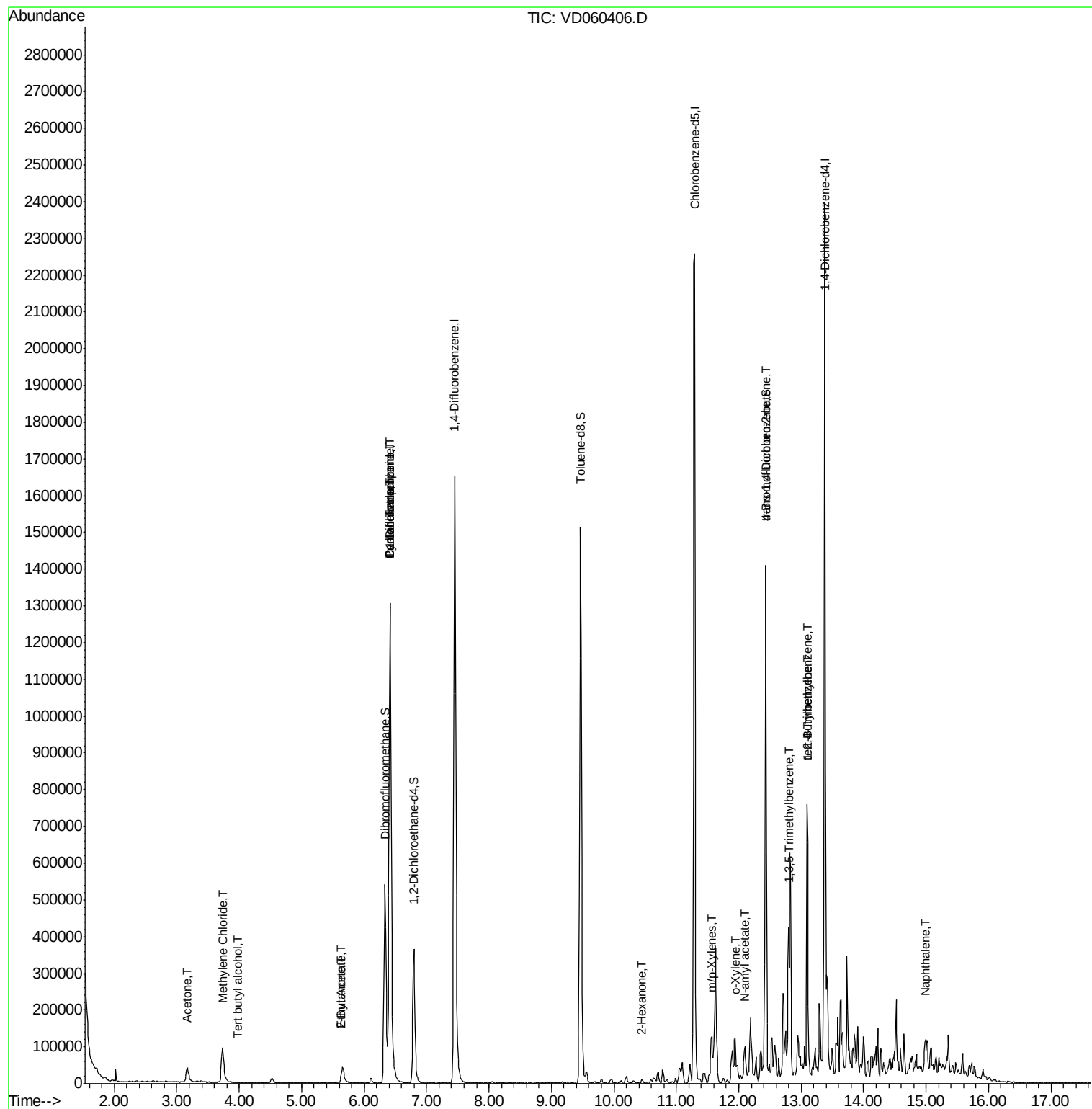
					Qvalue	
2) Dichlorodifluoromethane	1.60	85	1789	Below Cal	#	41
11) Tert butyl alcohol	3.97	59	567	1.467	ug/l #	70
16) Acetone	3.17	43	87927	53.861	ug/l	98
20) Methylene Chloride	3.74	84	64668	4.466	ug/l	96
25) 2-Butanone	5.63	43	12845	3.785	ug/l #	89
31) Cyclohexane	6.41	56	25904	1.153	ug/l #	1
36) 1,1-Dichloropropene	6.41	75	92034	5.002	ug/l #	46
37) Ethyl Acetate	5.63	43	12845	1.517	ug/l #	69
38) Carbon Tetrachloride	6.41	117	104097	6.099	ug/l #	15
59) 2-Hexanone	10.45	43	6804	1.379	ug/l #	31
68) m/p-Xylenes	11.57	106	33764	1.778	ug/l	94
69) o-Xylene	11.94	106	22288	1.215	ug/l	82
74) N-amyl acetate	12.10	43	17471	1.638	ug/l #	57
80) 1,3,5-Trimethylbenzene	12.80	105	157080	4.857	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.44	75	153468	78.895	ug/l #	16
83) tert-Butylbenzene	13.09	119	41921	1.168	ug/l #	62
84) 1,2,4-Trimethylbenzene	13.09	105	358428	11.097	ug/l	100
89) n-Butylbenzene	13.66	91	37629	Below Cal		94
95) Naphthalene	14.97	128	26169	1.673	ug/l	97

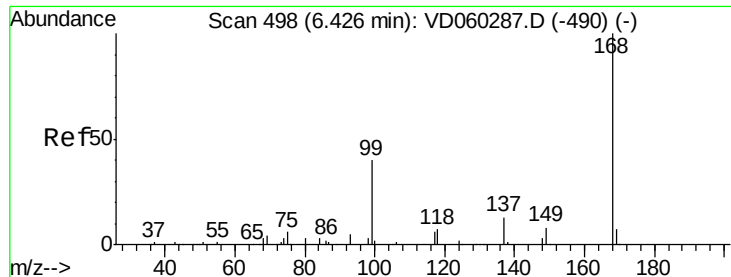
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 06 13:56:04 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060406.D

Acq: 16 Nov 2018 19:00

Instrument :

MSVOA_D

ClientSampleId :

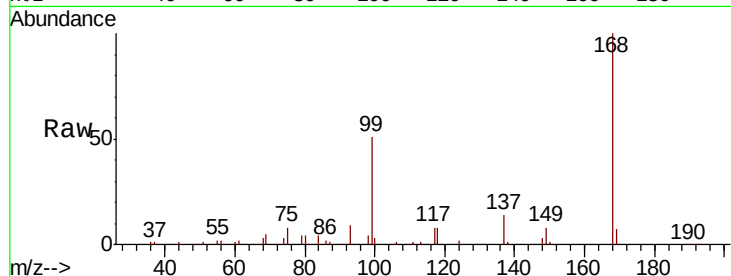
FK-GF-02-028-A

Tot Ion:168 Resp: 1314391

Ion Ratio Lower Upper

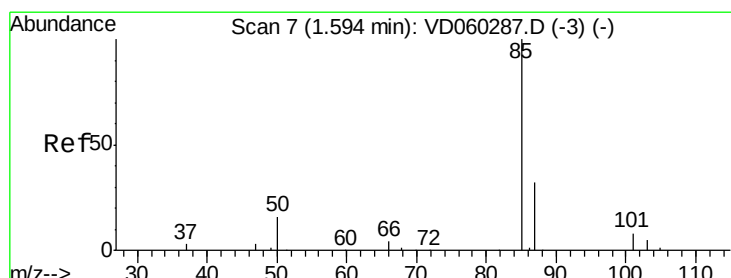
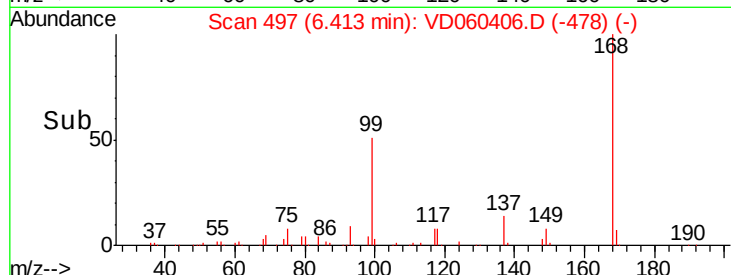
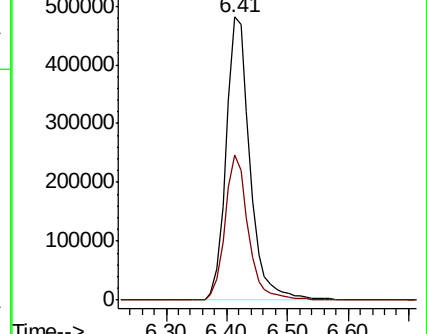
168 100

99 51.2 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060406.D

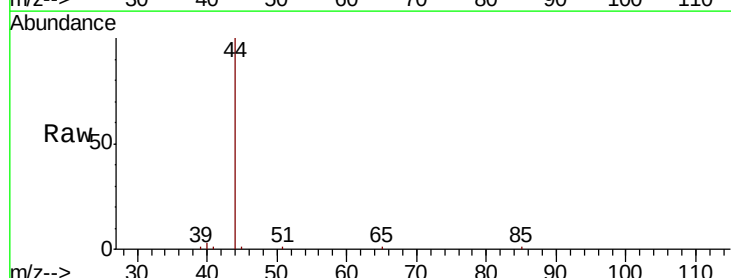
Acq: 16 Nov 2018 19:00

Tgt Ion: 85 Resp: 1789

Ion Ratio Lower Upper

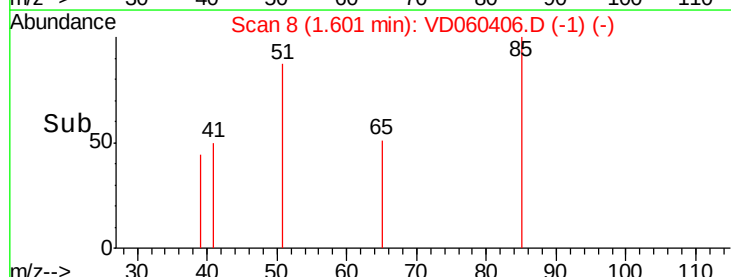
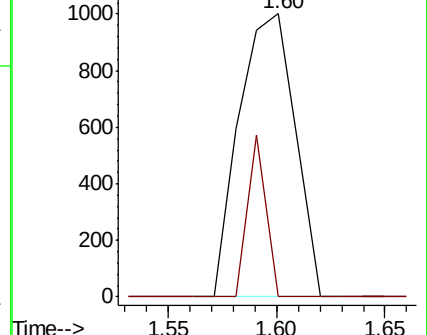
85 100

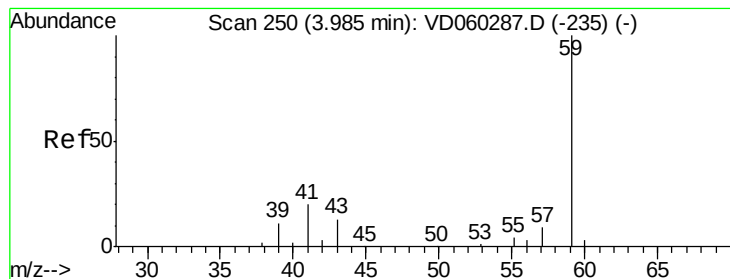
87 0.0 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC



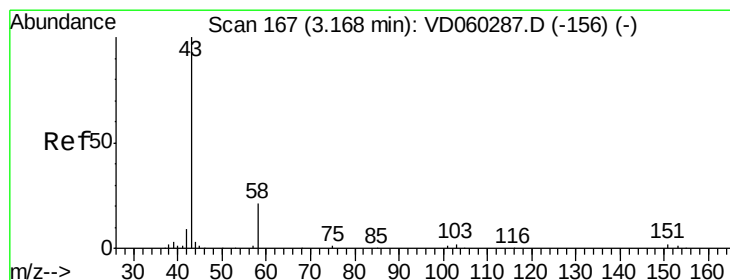
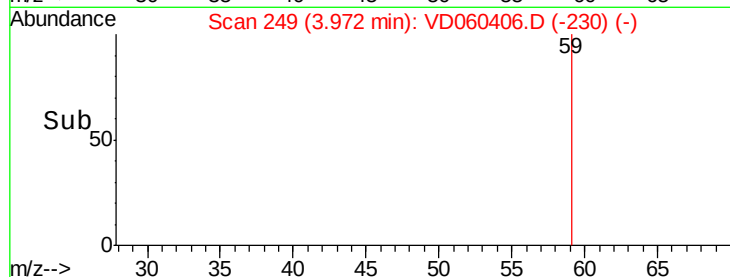
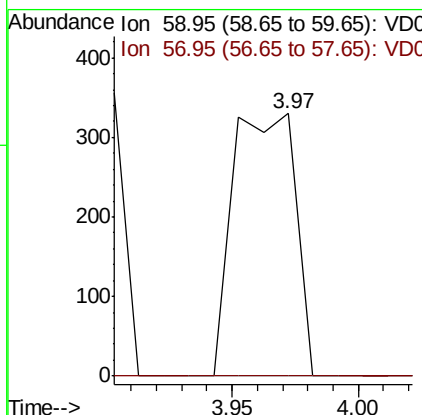
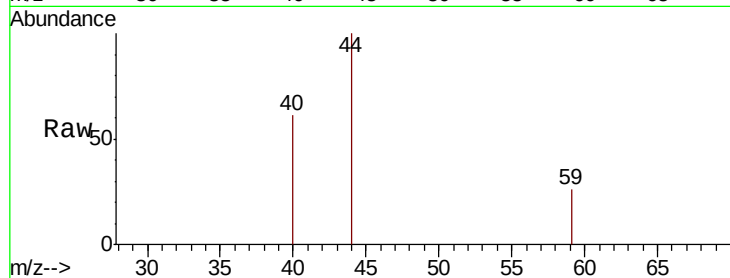


#11

Tert butyl alcohol
 Concen: 1.467 ug/l
 RT: 3.97 min Scan# 249
 Delta R.T. -0.01 min
 Lab File: VD060406.D
 Acq: 16 Nov 2018 19:00

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-028-A

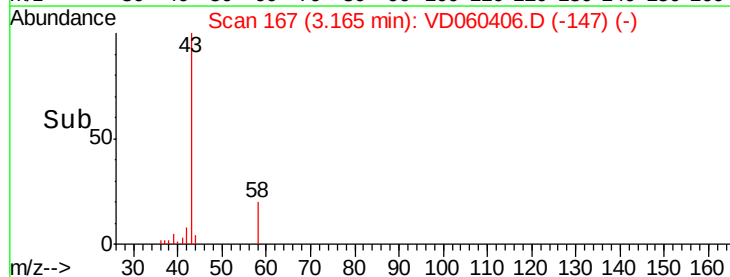
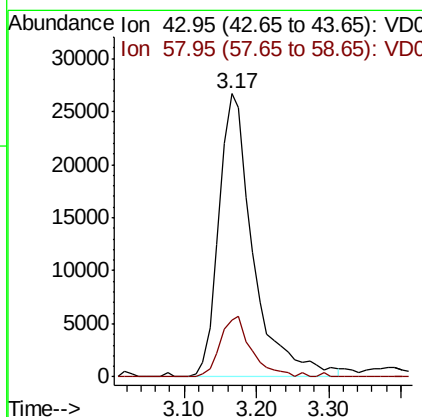
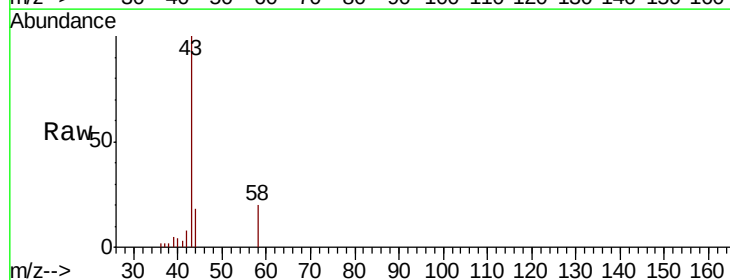
Tot Ion: 59 Resp: 567
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

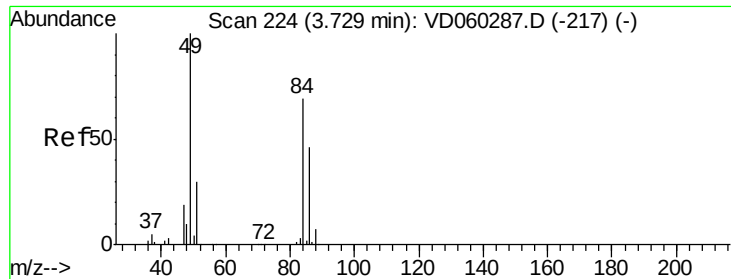


#16

Acetone
 Concen: 53.861 ug/l
 RT: 3.17 min Scan# 167
 Delta R.T. -0.00 min
 Lab File: VD060406.D
 Acq: 16 Nov 2018 19:00

Tgt Ion: 43 Resp: 87927
 Ion Ratio Lower Upper
 43 100
 58 20.2 16.9 25.3

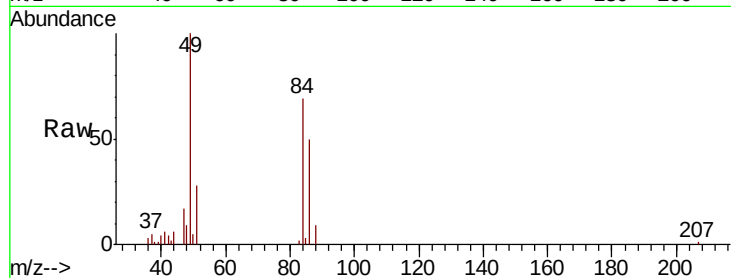




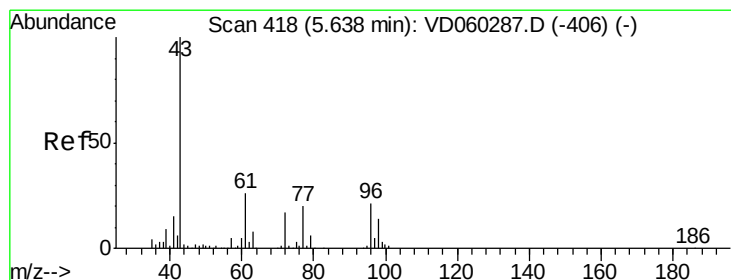
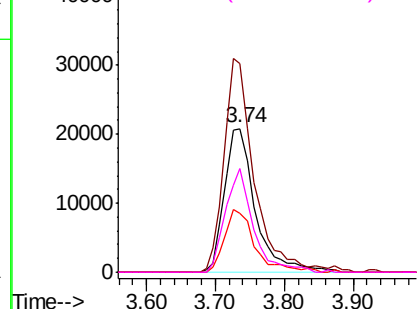
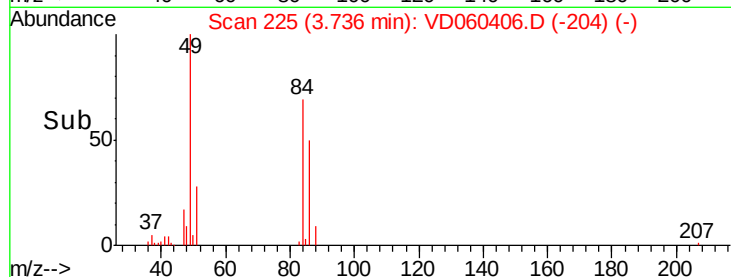
#20
Methvlene Chloride
Concen: 4.466 ug/l
RT: 3.74 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-A

Tot Ion: 84 Resp: 64668
Ion Ratio Lower Upper
84 100
49 145.2 115.6 173.4
51 40.7 35.6 53.4
86 72.5 52.3 78.5

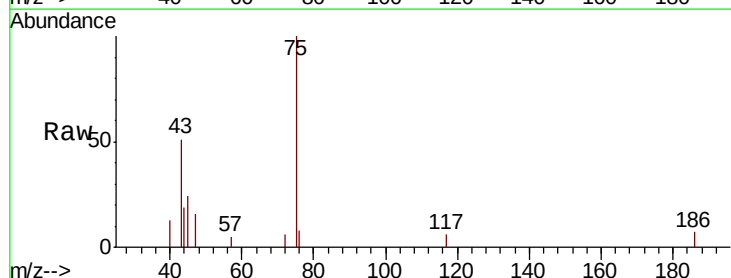


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

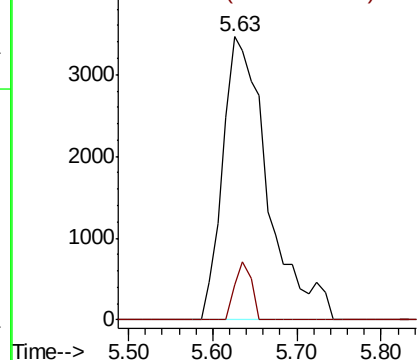
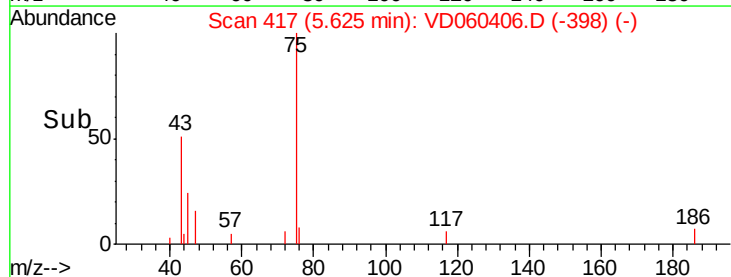


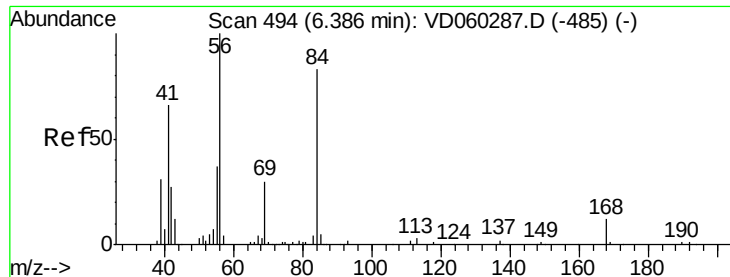
#25
2-Butanone
Concen: 3.785 ug/l
RT: 5.63 min Scan# 417
Delta R.T. -0.01 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Tgt Ion: 43 Resp: 12845
Ion Ratio Lower Upper
43 100
72 12.3 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

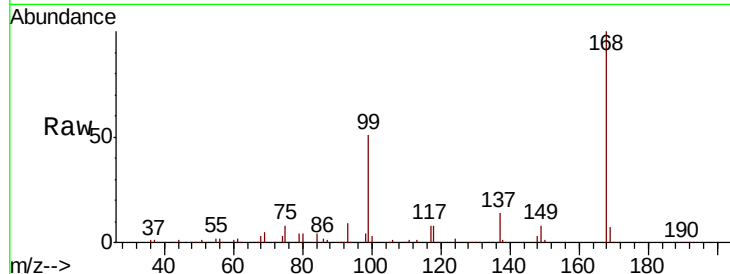




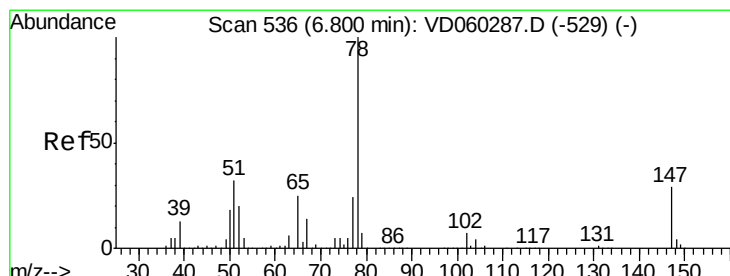
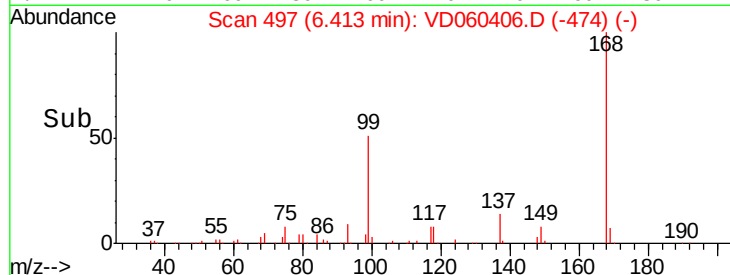
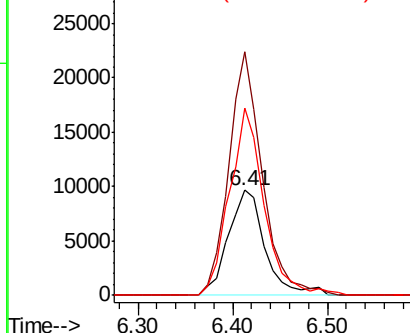
#31
Cyclohexane
Concen: 1.153 ug/l
RT: 6.41 min Scan# 497
Delta R.T. 0.03 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-A

Tot Ion	56	Resp	25904
Ion Ratio	Lower	Upper	
56	100		
69	232.0	22.2	33.2#
84	179.0	63.0	94.4#

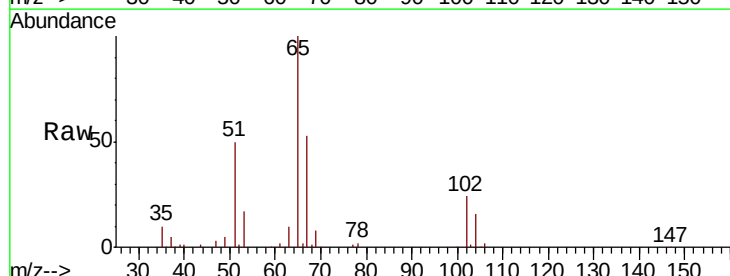


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

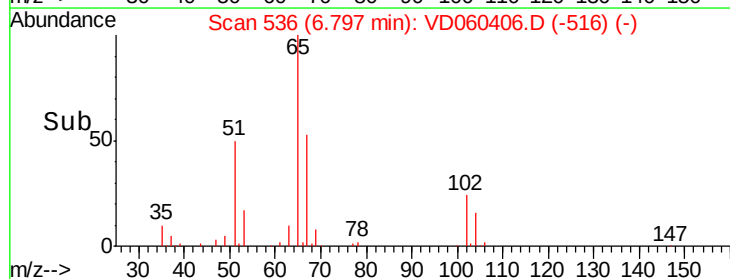
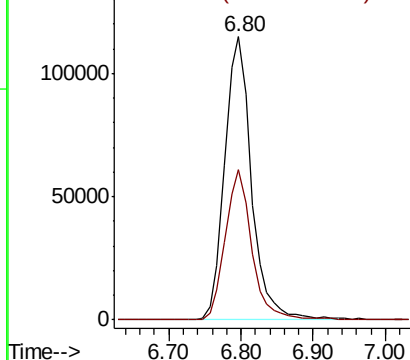


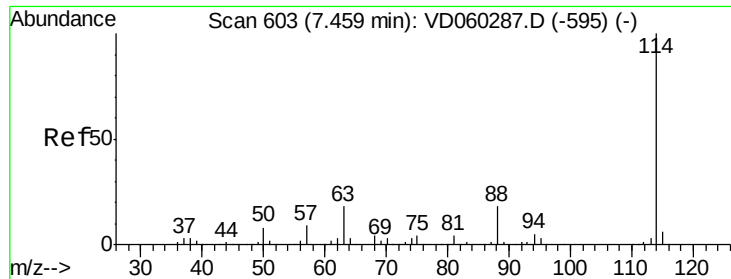
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.80 min Scan# 536
Delta R.T. -0.00 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Tgt Ion	65	Resp	296077
Ion Ratio	Lower	Upper	
65	100		
67	53.2	0.0	109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.46 min Scan# 603

Delta R.T. -0.00 min

Lab File: VD060406.D

Acq: 16 Nov 2018 19:00

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-028-A

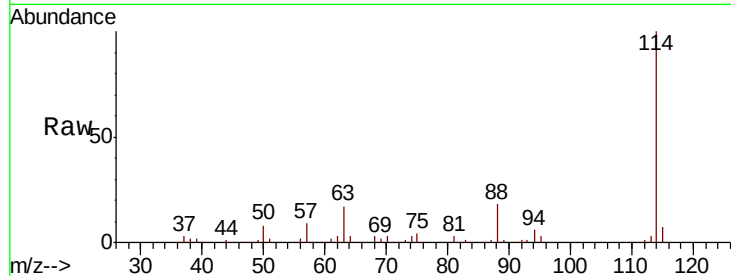
Tot Ion:114 Resp: 1862361

Ion Ratio Lower Upper

114 100

63 17.2 0.0 34.0

88 18.1 0.0 35.4



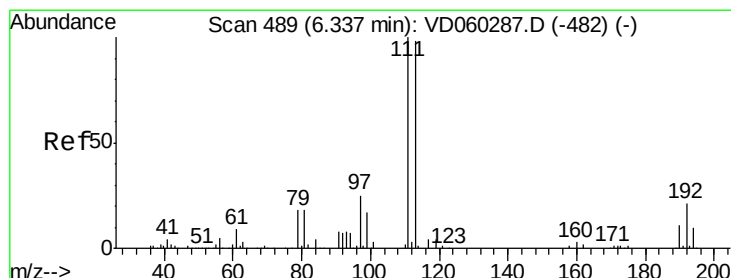
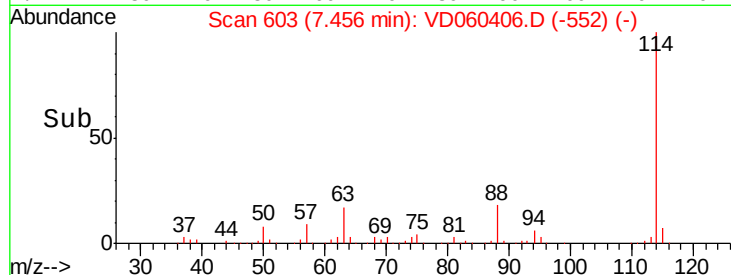
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V

7.46

Time-->



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.33 min Scan# 489

Delta R.T. -0.00 min

Lab File: VD060406.D

Acq: 16 Nov 2018 19:00

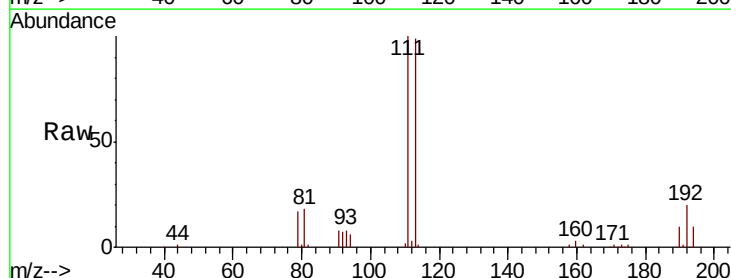
Tgt Ion:113 Resp: 440404

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

192 20.2 16.5 24.7



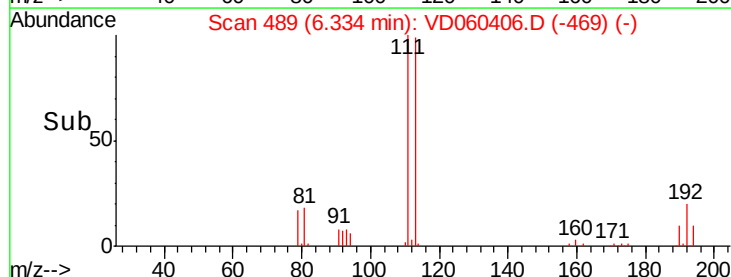
Abundance Ion 112.90 (112.60 to 113.60): V

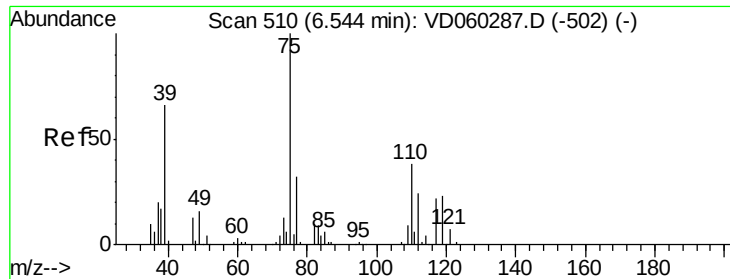
Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

6.33

Time-->

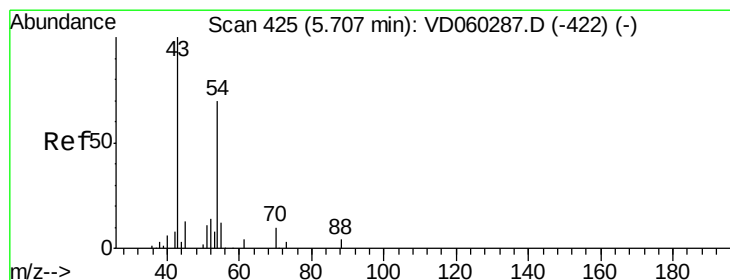
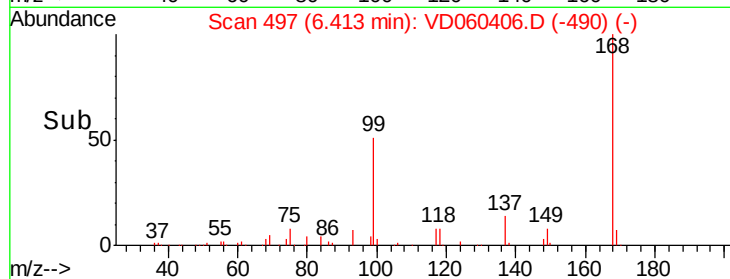
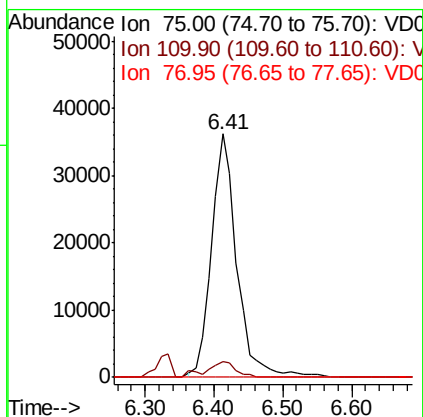
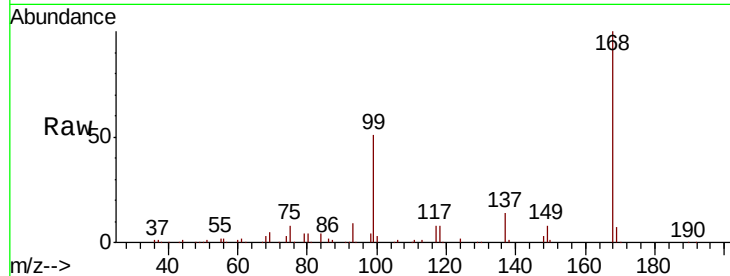




#36
 1,1-Dichloropropene
 Concen: 5.002 ug/l
 RT: 6.41 min Scan# 497
 Delta R.T. -0.13 min
 Lab File: VD060406.D
 Acq: 16 Nov 2018 19:00

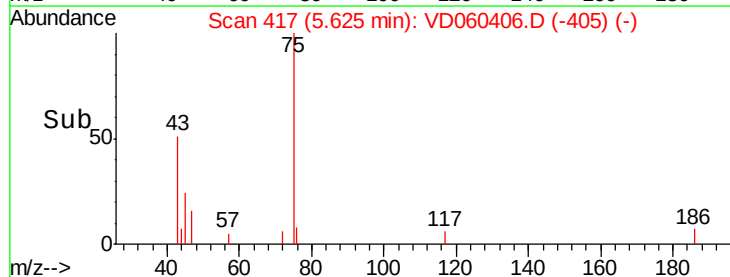
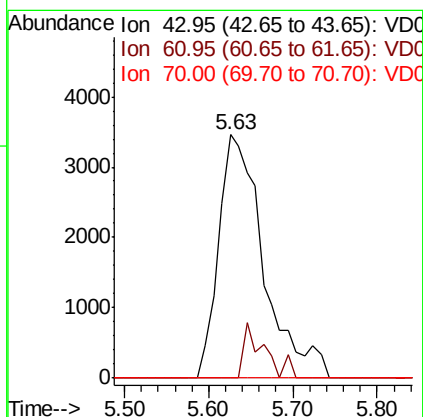
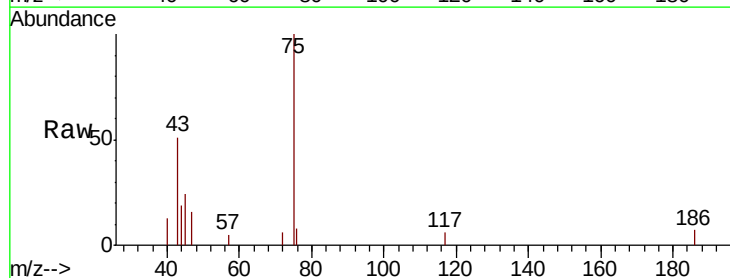
Instrument :
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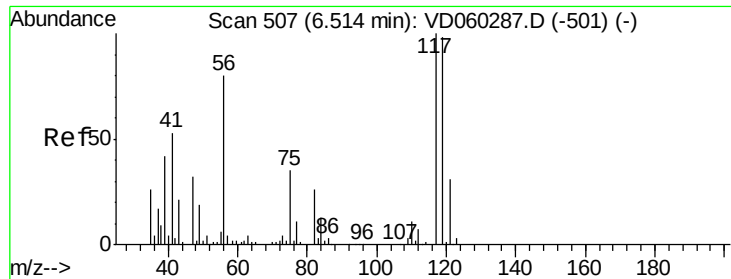
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.2	18.0	54.0#
77	0.0	25.6	38.4#



#37
 Ethyl Acetate
 Concen: 1.517 ug/l
 RT: 5.63 min Scan# 417
 Delta R.T. -0.08 min
 Lab File: VD060406.D
 Acq: 16 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	0.0	6.2	9.4#

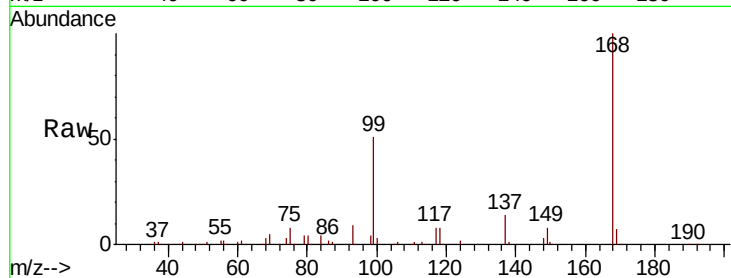




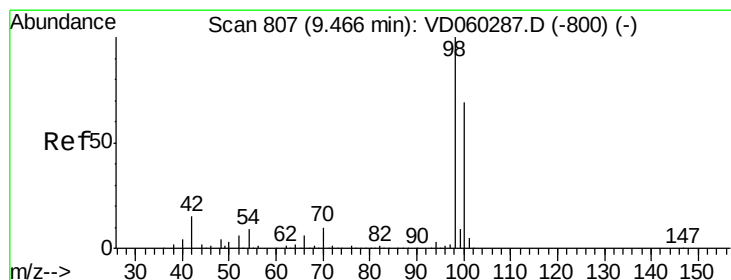
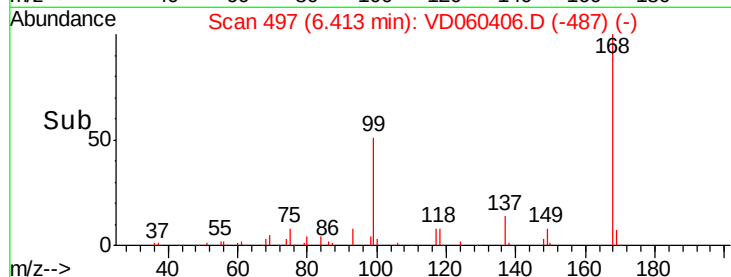
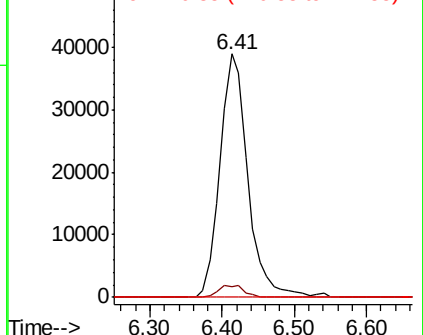
#38
Carbon Tetrachloride
Concen: 6.099 ug/l
RT: 6.41 min Scan# 497
Delta R.T. -0.10 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-A

Tot Ion:117 Resp: 104097
Ion Ratio Lower Upper
117 100
119 4.3 76.6 115.0#
121 0.0 24.3 36.5#

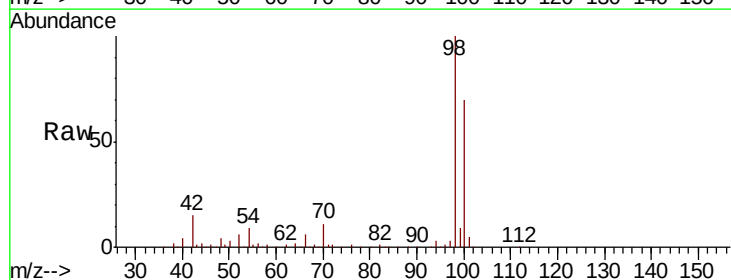


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

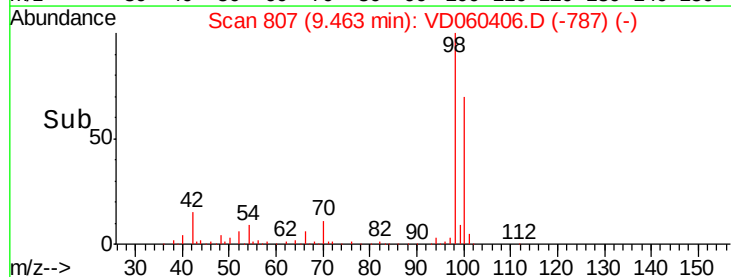
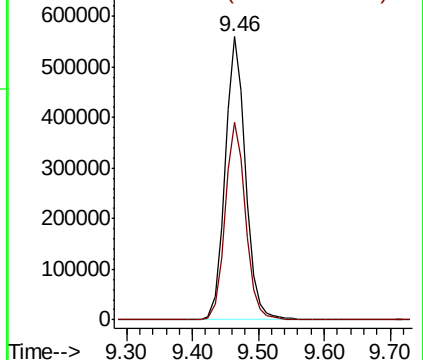


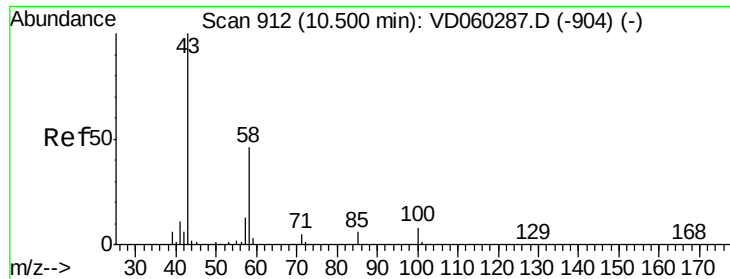
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 807
Delta R.T. -0.00 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Tgt Ion: 98 Resp: 1213293
Ion Ratio Lower Upper
98 100
100 69.6 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V

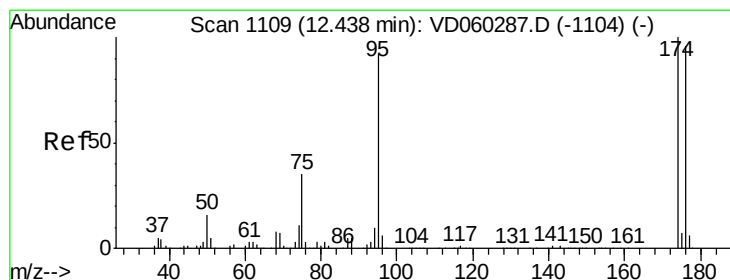
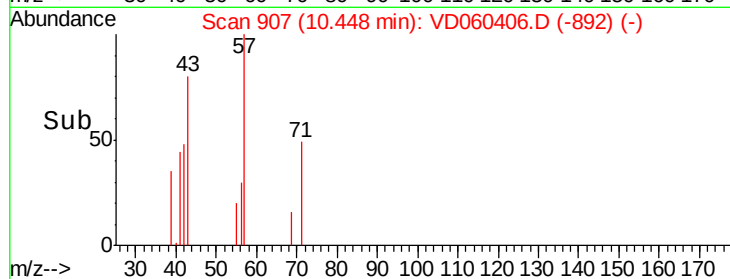
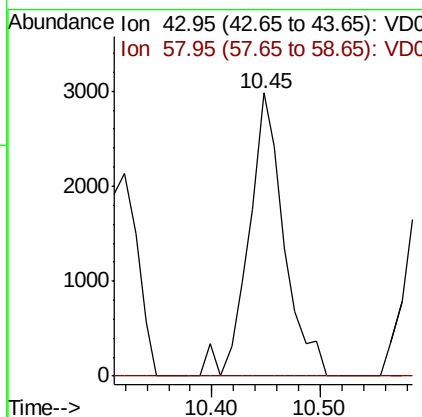
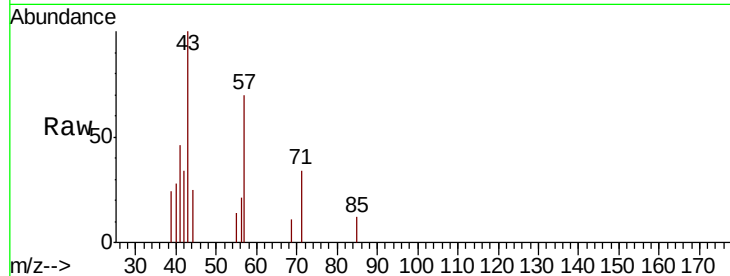




#59
2-Hexanone
Concen: 1.379 ug/l
RT: 10.45 min Scan# 907
Delta R.T. -0.05 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

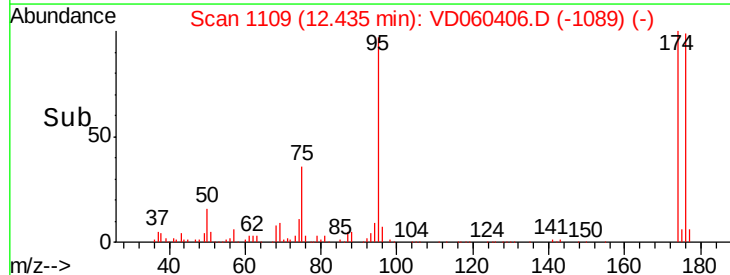
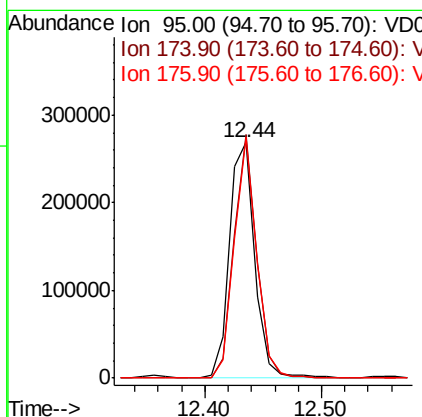
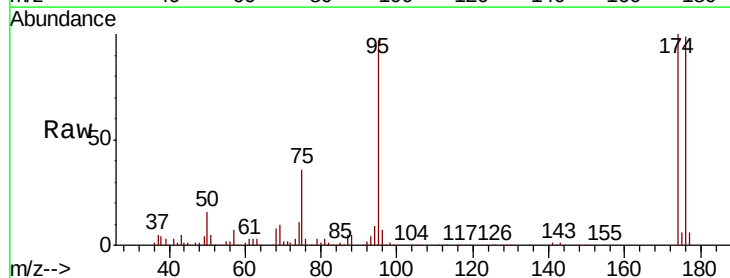
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-A

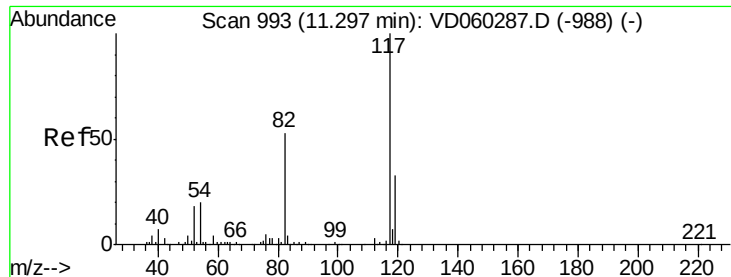
Tot Ion: 43 Resp: 6804
Ion Ratio Lower Upper
43 100
58 0.0 22.9 68.5#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.44 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Tgt Ion: 95 Resp: 402850
Ion Ratio Lower Upper
95 100
174 103.2 0.0 160.8
176 102.0 0.0 154.6

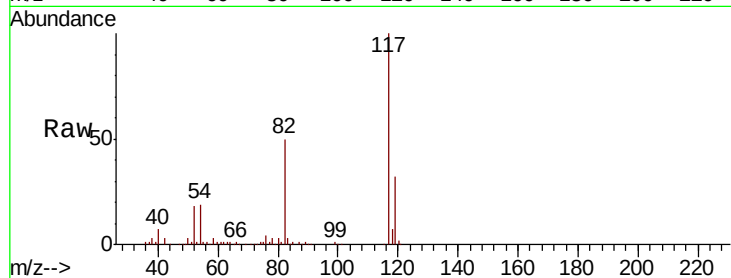




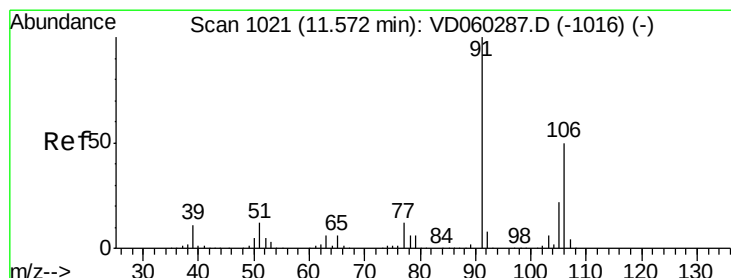
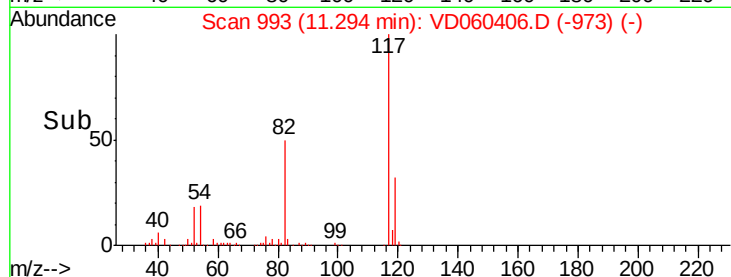
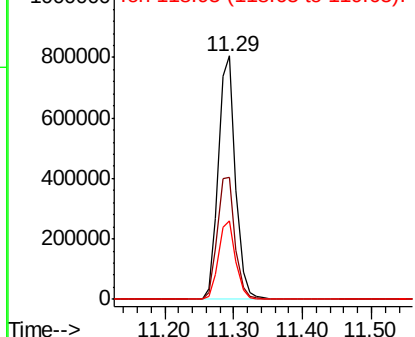
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.29 min Scan# 993
Delta R.T. -0.00 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-A

Tot Ion:117 Resp: 1388680
Ion Ratio Lower Upper
117 100
82 50.0 43.7 65.5
119 32.2 26.1 39.1

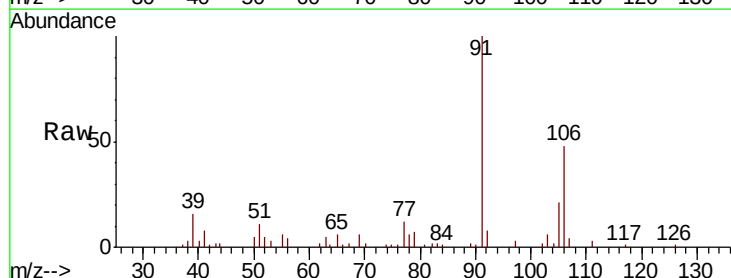


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VD
Ion 118.95 (118.65 to 119.65): V

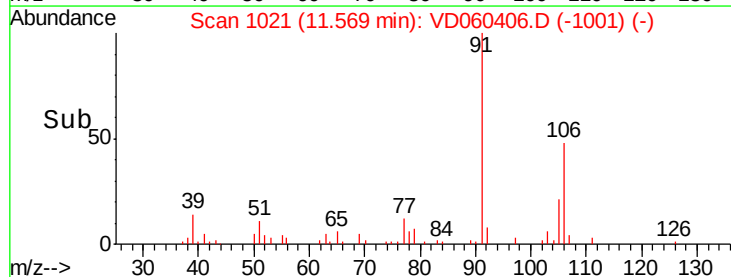
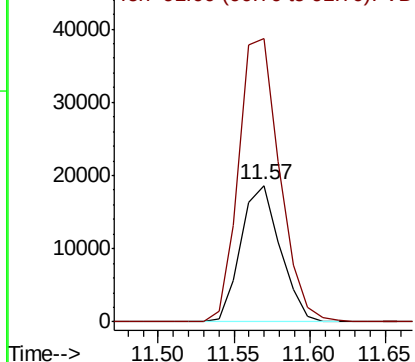


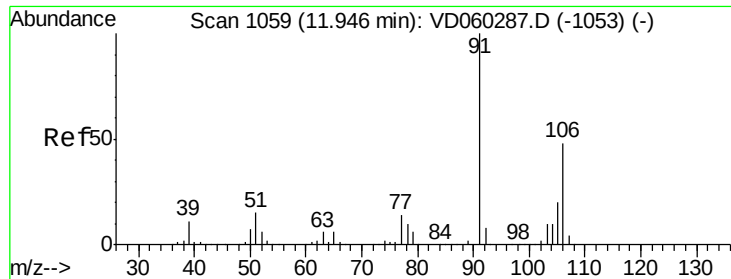
#68
m/p-Xylenes
Concen: 1.778 ug/l
RT: 11.57 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Tgt Ion:106 Resp: 33764
Ion Ratio Lower Upper
106 100
91 207.9 159.4 239.2



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VD

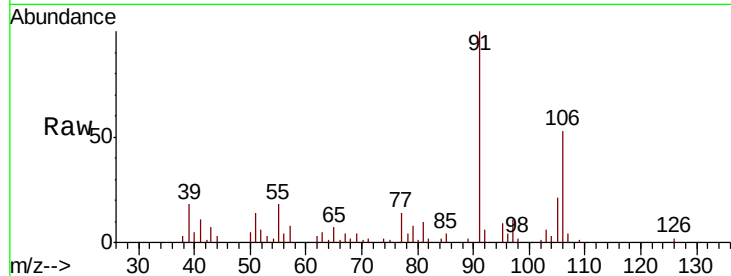




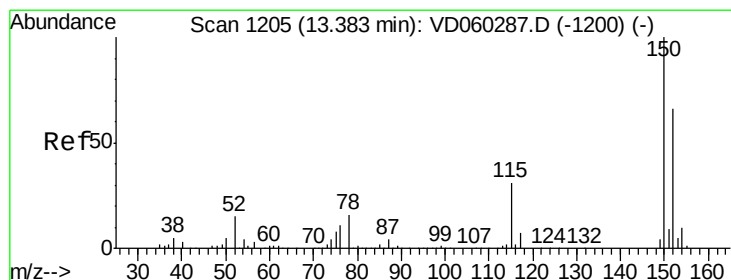
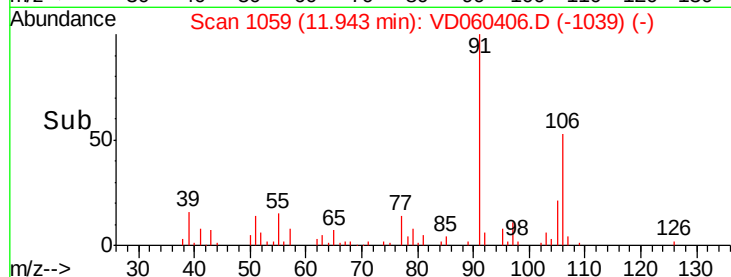
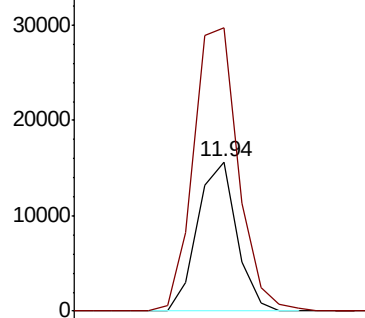
#69
o-Xylene
Concen: 1.215 ug/l
RT: 11.94 min Scan# 1059
Delta R.T. -0.00 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-A

Tot Ion:106 Resp: 22288
Ion Ratio Lower Upper
106 100
91 189.2 109.2 327.6

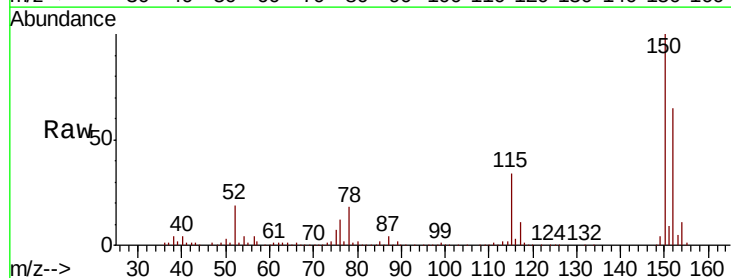


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

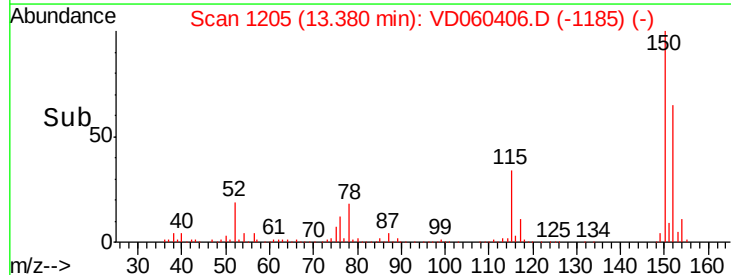
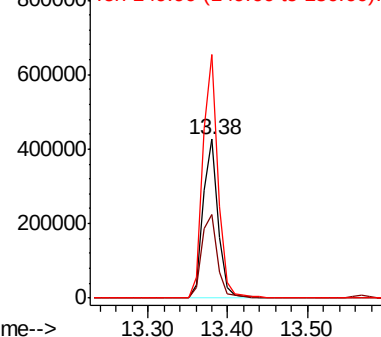


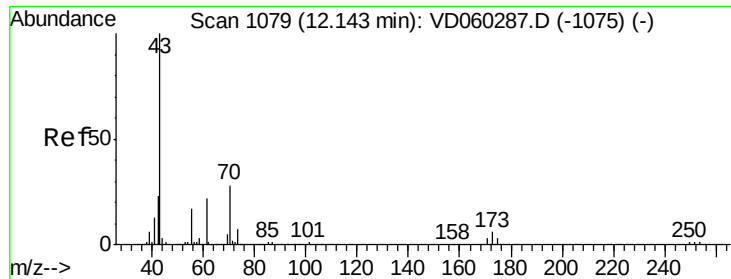
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1205
Delta R.T. -0.00 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Tgt Ion:152 Resp: 571172
Ion Ratio Lower Upper
152 100
115 52.8 24.1 72.3
150 153.6 0.0 310.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V

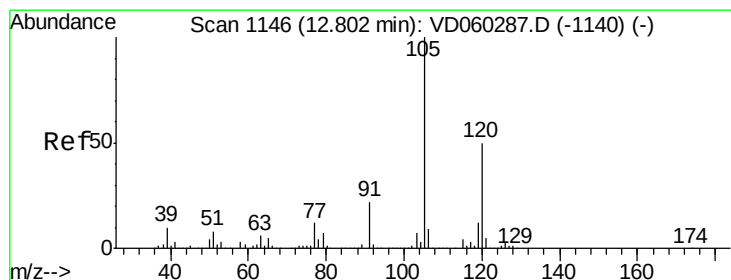
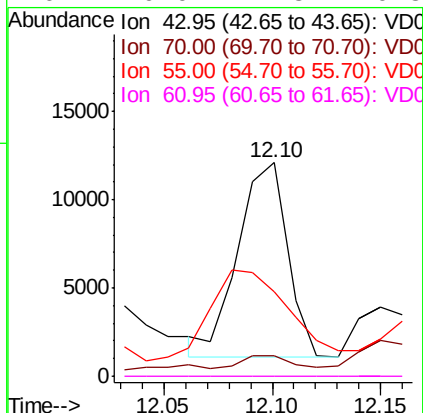
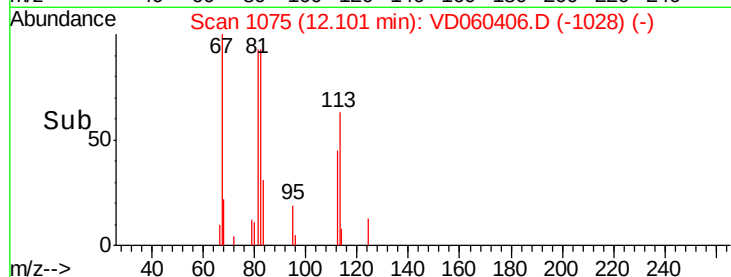
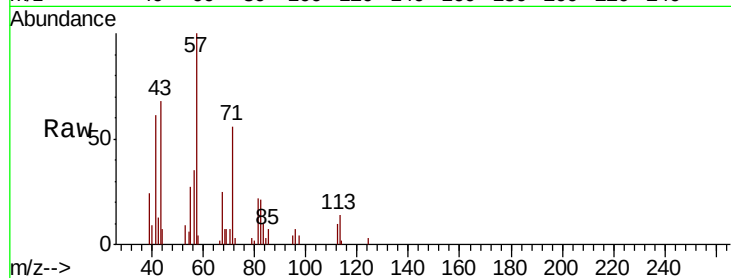




#74
N-amvl acetate
Concen: 1.638 ug/l
RT: 12.10 min Scan# 1075
Delta R.T. -0.04 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

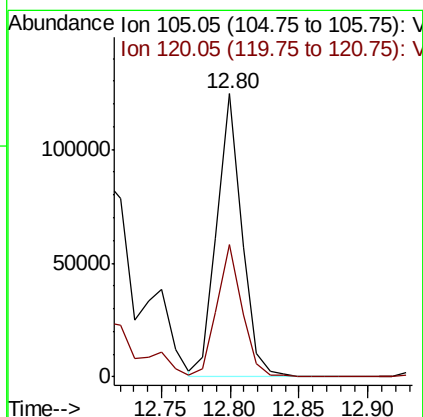
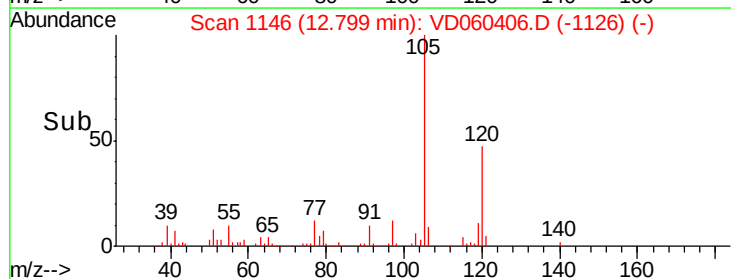
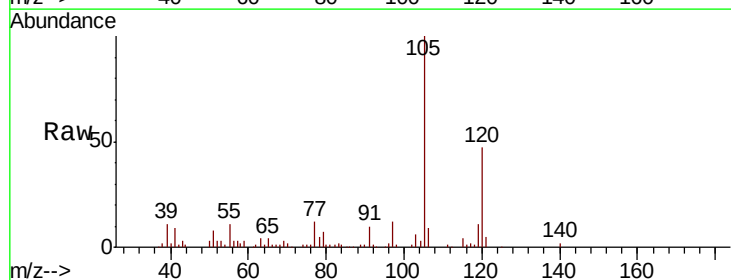
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-A

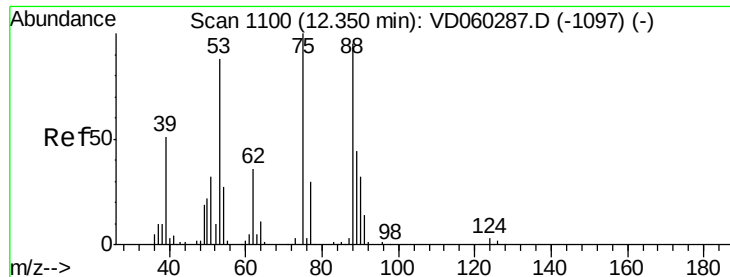
Tot Ion: 43 Resp: 17471
Ion Ratio Lower Upper
43 100
70 9.8 23.0 34.4#
55 39.4 14.2 21.4#
61 0.0 17.8 26.8#



#80
1,3,5-Trimethylbenzene
Concen: 4.857 ug/l
RT: 12.80 min Scan# 1146
Delta R.T. -0.00 min
Lab File: VD060406.D
Acq: 16 Nov 2018 19:00

Tgt Ion:105 Resp: 157080
Ion Ratio Lower Upper
105 100
120 46.8 24.4 73.4





#81

trans-1,4-Dichloro-2-butene

Concen: 78.895 ug/l

RT: 12.44 min Scan# 1109

Delta R.T. 0.09 min

Lab File: VD060406.D

Acq: 16 Nov 2018 19:00

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-028-A

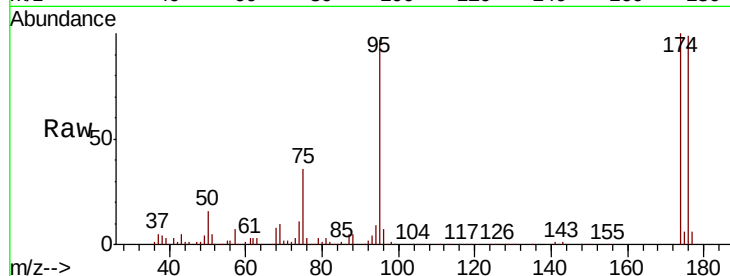
Tot Ion: 75 Resp: 153468

Ion Ratio Lower Upper

75 100

53 0.5 68.6 103.0#

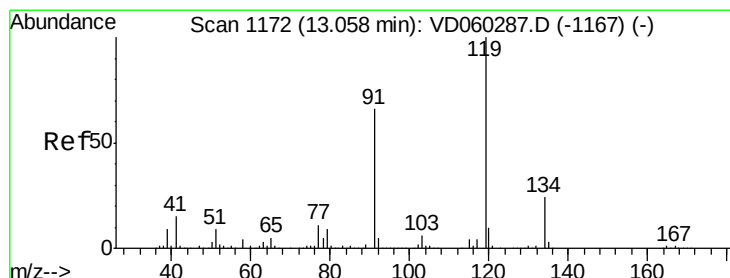
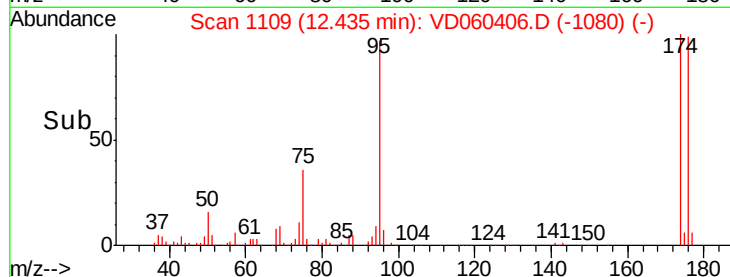
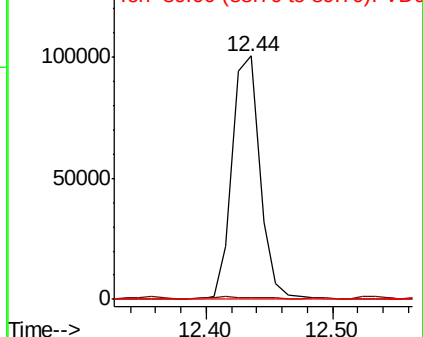
89 0.0 34.1 51.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#83

tert-Butylbenzene

Concen: 1.168 ug/l

RT: 13.09 min Scan# 1176

Delta R.T. 0.04 min

Lab File: VD060406.D

Acq: 16 Nov 2018 19:00

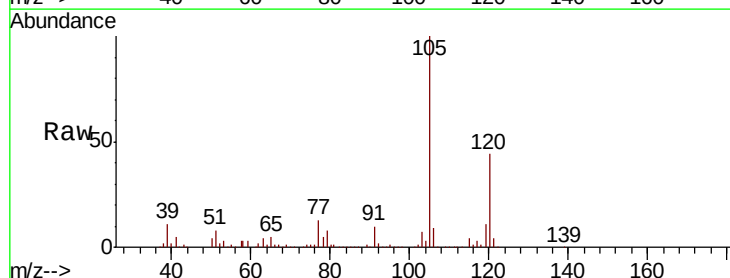
Tgt Ion: 119 Resp: 41921

Ion Ratio Lower Upper

119 100

91 92.8 32.7 98.1

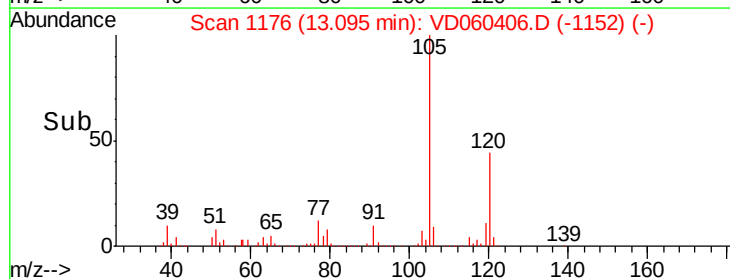
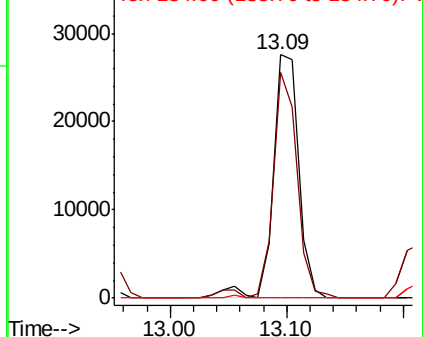
134 0.0 12.1 36.3#

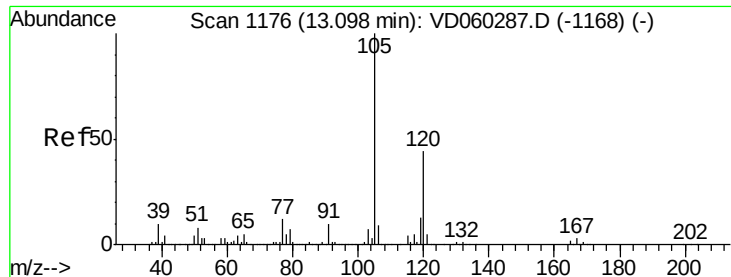


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): VDC

Ion 134.00 (133.70 to 134.70): V





#84

1,2,4-Trimethylbenzene

Concen: 11.097 ug/l

RT: 13.09 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VD060406.D

Acq: 16 Nov 2018 19:00

Instrument :

MSVOA_D

ClientSampleId :

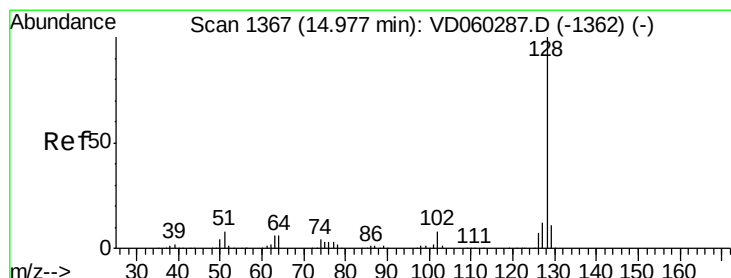
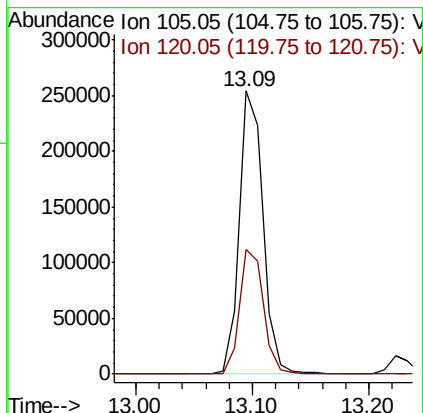
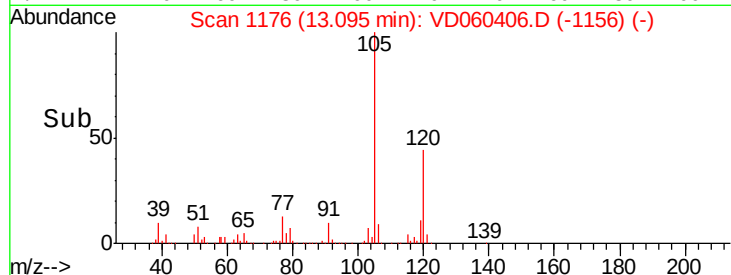
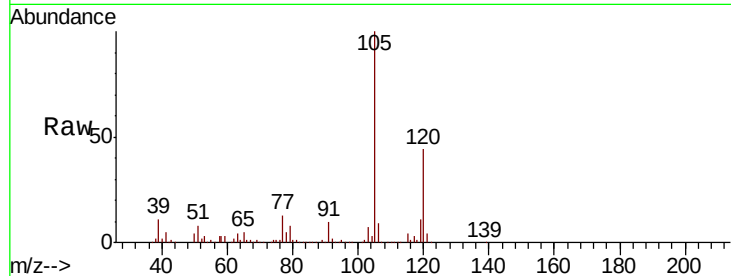
FK-GF-02-028-A

Tot Ion:105 Resp: 358428

Ion Ratio Lower Upper

105 100

120 43.8 21.9 65.8



#95

Naphthalene

Concen: 1.673 ug/l

RT: 14.97 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VD060406.D

Acq: 16 Nov 2018 19:00

Tgt Ion:128 Resp: 26169

Ion Ratio Lower Upper

128 100

127 14.3 9.6 14.4

129 10.7 8.6 12.8

