

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072318\
 Data File : VF059630.D
 Acq On : 23 Jul 2018 22:45
 Operator : VA/AP
 Sample : J4099-10MS
 Misc : 5.21g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

Manual Integrations
 APPROVED

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 7/24/2018 1:14:46 PM

Quant Time: Jul 24 08:50:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 04:17:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	201279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	283921	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	210882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	68916	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	160933	50.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.62%	
35) Dibromofluoromethane	4.28	113	136363	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	
50) Toluene-d8	7.70	98	309834	47.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.48%	
62) 4-Bromofluorobenzene	11.51	95	105107	27.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	116042	45.95	ug/l	98
3) Chloromethane	1.10	50	48294	41.93	ug/l	93
4) Vinyl Chloride	1.16	62	61144	47.00	ug/l	89
5) Bromomethane	1.33	94	37068	32.93	ug/l	90
6) Chloroethane	1.42	64	37005	46.61	ug/l #	83
7) Trichlorofluoromethane	1.48	101	166981m	47.20	ug/l	
8) Diethyl Ether	1.70	74	26245	51.69	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.90	101	75804	42.59	ug/l #	86
10) Methyl Iodide	1.95	142	95229	31.82	ug/l	96
11) Tert butyl alcohol	2.67	59	30718	238.27	ug/l	96
12) 1,1-Dichloroethene	1.85	96	66887	47.41	ug/l	95
13) Acrolein	2.12	56	333	5.15	ug/l	85
14) Allyl chloride	2.18	41	80746	31.61	ug/l	87
15) Acrylonitrile	3.07	53	39124	196.73	ug/l	95
16) Acetone	2.33	43	98549	181.47	ug/l	95
17) Carbon Disulfide	1.84	76	72987	19.99	ug/l	98
18) Methyl Acetate	2.45	43	87845	129.20	ug/l #	88
19) Methyl tert-butyl Ether	2.53	73	198987	48.39	ug/l	97
20) Methylene Chloride	2.27	84	67565	55.25	ug/l	97
21) trans-1,2-Dichloroethene	2.41	96	64072	44.18	ug/l	90
22) Diisopropyl ether	2.92	45	238903	51.04	ug/l	99
24) 1,1-Dichloroethane	2.99	63	169599	50.55	ug/l	99
25) 2-Butanone	4.50	43	105085	187.68	ug/l	97
26) 2,2-Dichloropropane	3.75	77	136575	48.30	ug/l	98
27) cis-1,2-Dichloroethene	3.62	96	87448	52.61	ug/l	99
28) Bromochloromethane	3.88	49	60332	48.92	ug/l	97
29) Tetrahydrofuran	4.24	42	49811	219.59	ug/l	94
30) Chloroform	4.02	83	224947	48.77	ug/l	96
31) Cyclohexane	3.86	56	64367	34.48	ug/l #	93
32) 1,1,1-Trichloroethane	4.26	97	200186	47.93	ug/l	96
36) 1,1-Dichloropropene	4.45	75	126407	43.96	ug/l #	93
37) Ethyl Acetate	4.24	43	15509	13.42	ug/l #	1
38) Carbon Tetrachloride	4.16	117	143113	32.26	ug/l	93
39) Methylcyclohexane	5.61	83	52282	22.41	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	4.80	78	247564	47.11	ug/l	98
41) Methacrylonitrile	4.91	41	19489	32.89	ug/l #	74
42) 1,2-Dichloroethane	5.11	62	160910	45.36	ug/l	100
43) Isopropyl Acetate	7.11	43	1616	1.09	ug/l #	90
44) Trichloroethene	5.66	130	88024	43.46	ug/l	95
45) 1,2-Dichloropropane	6.40	63	65664	46.16	ug/l	96
46) Dibromomethane	6.24	93	56764	48.17	ug/l	89
47) Bromodichloromethane	6.54	83	127980	35.79	ug/l	97
48) Methyl methacrylate	6.86	41	59797	54.12	ug/l	91
49) 1,4-Dioxane	6.85	88	7928	1157.04	ug/l	95
51) 4-Methyl-2-Pentanone	8.39	43	244242	226.95	ug/l	97
52) Toluene	7.77	92	162342	40.58	ug/l	94
53) t-1,3-Dichloropropene	8.42	75	96270	31.84	ug/l	95
54) cis-1,3-Dichloropropene	7.44	75	99356	33.15	ug/l	95
55) 1,1,2-Trichloroethane	8.63	97	55363	40.44	ug/l	94
56) Ethyl methacrylate	8.75	69	1999	1.31	ug/l #	55
57) 1,3-Dichloropropane	8.99	76	100331	42.12	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.77	63	35795	203.02	ug/l #	100
59) 2-Hexanone	9.62	43	131982	151.12	ug/l	98
60) Dibromochloromethane	8.85	129	71356	29.27	ug/l	99
61) 1,2-Dibromoethane	9.13	107	60833	38.77	ug/l	91
64) Tetrachloroethene	8.29	164	75191	48.01	ug/l	94
65) Chlorobenzene	9.93	112	174370	44.84	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.06	131	80748	45.83	ug/l	94
67) Ethyl Benzene	10.03	91	323496	45.75	ug/l	97
68) m/p-Xylenes	10.25	106	206996	86.14	ug/l	96
69) o-Xylene	10.83	106	114381	43.83	ug/l	88
70) Stvrene	10.89	104	141558	36.16	ug/l	97
71) Bromoform	10.88	173	34834	31.91	ug/l	99
73) Isopropylbenzene	11.22	105	297096	67.88	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.78	83	59091	80.42	ug/l	96
76) 1,2,3-Trichloropropane	11.88	75	52129	81.21	ug/l	90
77) Bromobenzene	11.58	156	70958	62.57	ug/l	93
78) n-propylbenzene	11.68	91	301215	57.43	ug/l	97
79) 2-Chlorotoluene	11.80	91	179869	57.22	ug/l	100
80) 1,3,5-Trimethylbenzene	11.91	105	203592	51.96	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	11454m	44.99	ug/l	
82) 4-Chlorotoluene	11.98	91	192237	54.98	ug/l	96
83) tert-Butylbenzene	12.21	119	186852	48.23	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	198819	49.88	ug/l	98
85) sec-Butylbenzene	12.38	105	208473	41.63	ug/l	99
86) p-Isopropyltoluene	12.53	119	132908	30.15	ug/l	96
87) 1,3-Dichlorobenzene	12.55	146	93507	43.00	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	91311	44.75	ug/l	98
89) n-Butylbenzene	12.92	91	108181	25.69	ug/l	94
90) Hexachloroethane	12.99	117	32580	29.84	ug/l	70
91) 1,2-Dichlorobenzene	13.01	146	79282	39.11	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	10420	58.91	ug/l	98
93) 1,2,4-Trichlorobenzene	14.27	180	22844	15.08	ug/l	97
94) Hexachlorobutadiene	14.25	225	13468	12.77	ug/l	88

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QLast Update : Tue Jul 24 04:17:55 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	14.52	128	44778	18.20	ug/l	97
96) 1,2,3-Trichlorobenzene	14.66	180	16832	12.22	ug/l	92

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

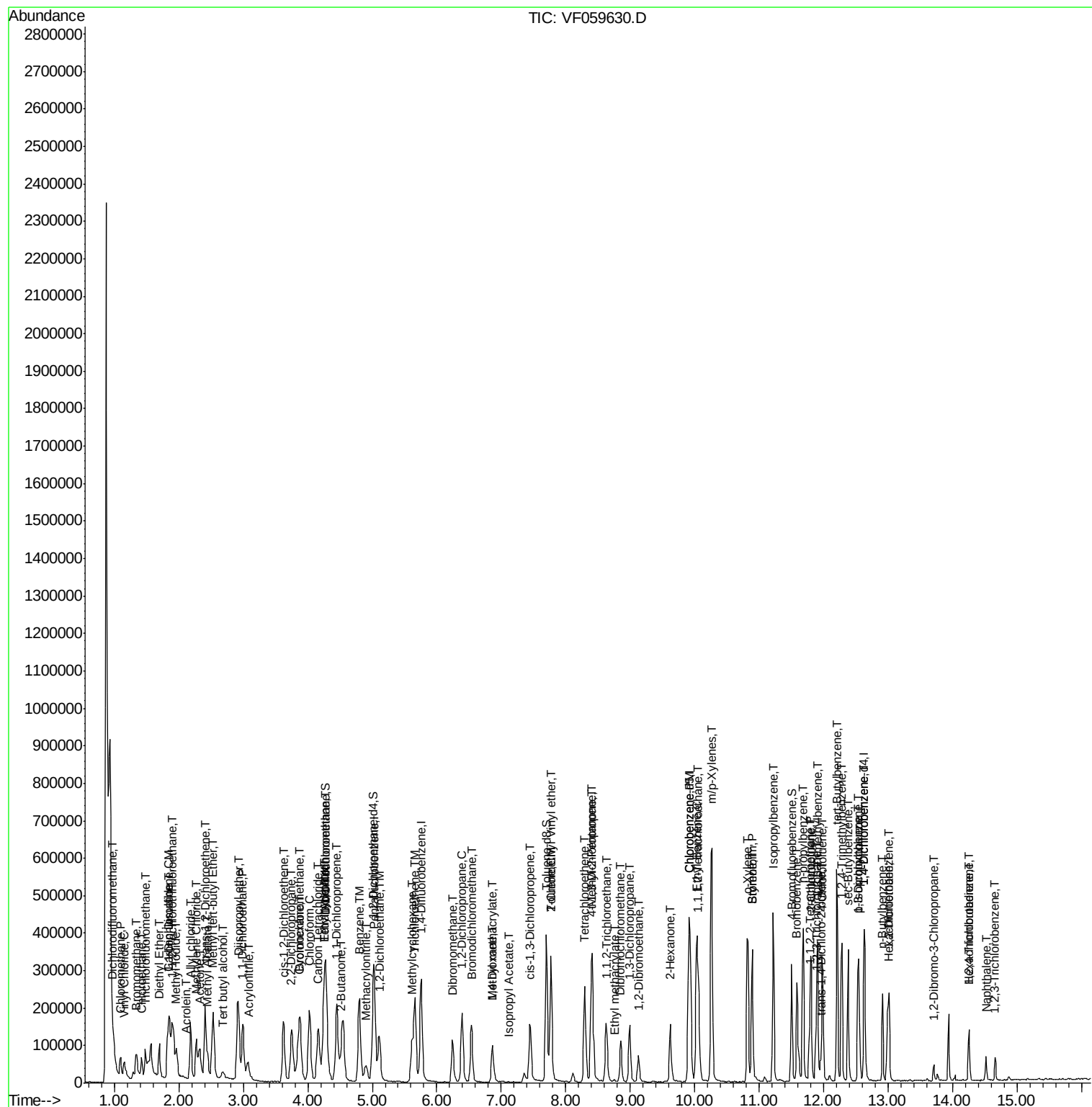
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 Data File : VF059630.D
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 Operator : VA/AP
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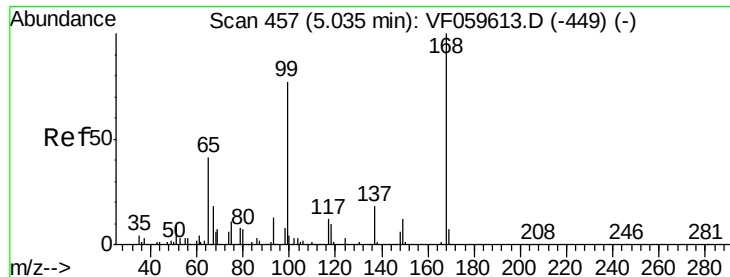
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF059630.D

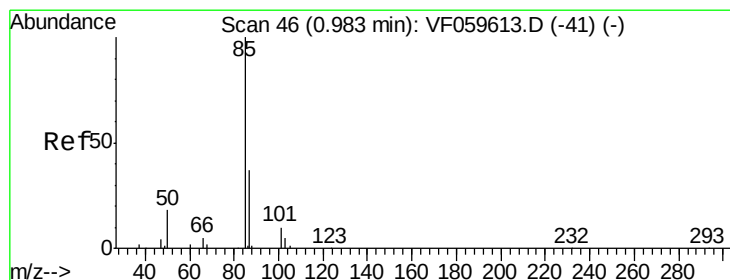
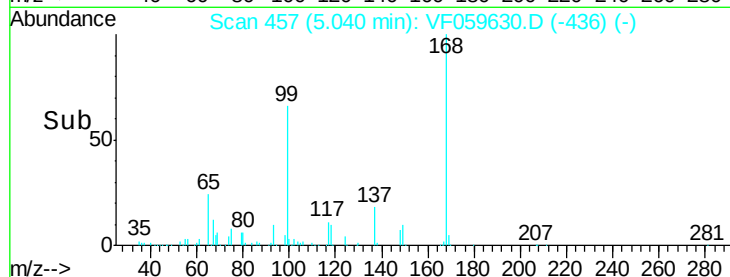
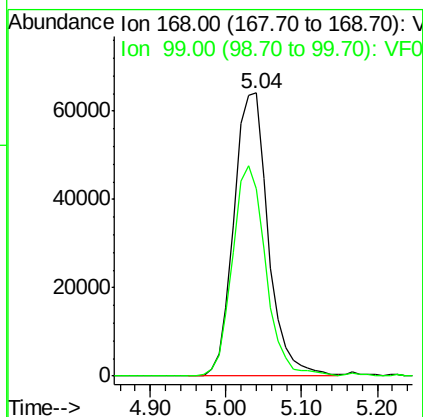
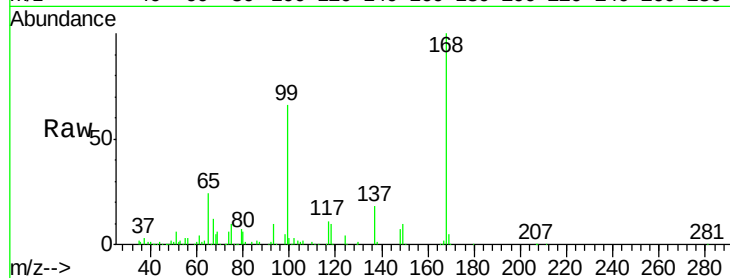
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
168	100		
99	66.3	61.5	92.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 45.95 ug/l

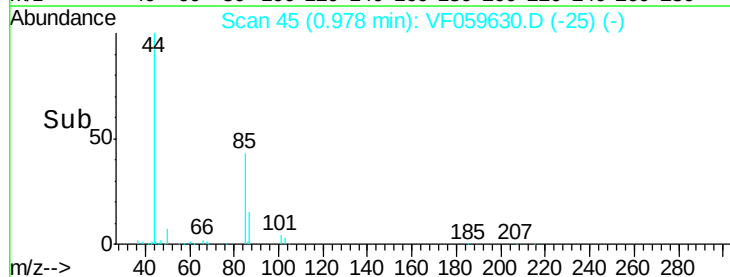
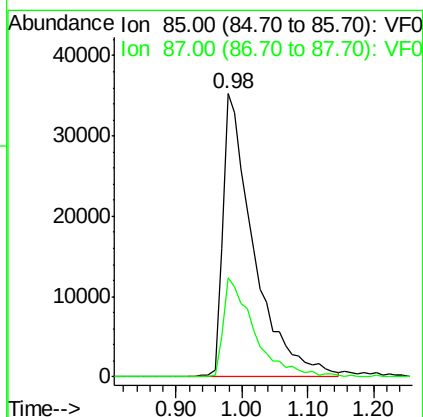
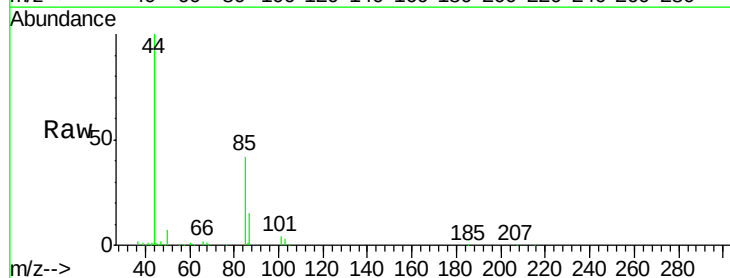
RT: 0.98 min Scan# 45

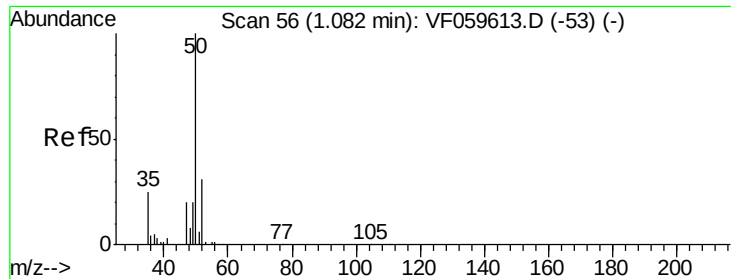
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.2	18.3	54.9





#3

Chloromethane

Concen: 41.93 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion: 50 Resp: 48294

Ion Ratio Lower Upper

50 100

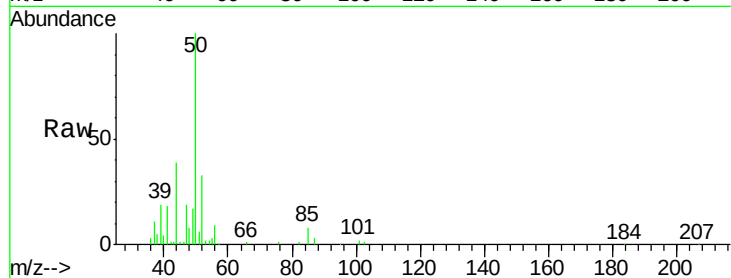
52 33.2 23.7 35.5

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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

25000

20000

15000

10000

5000

0

Time-->

1.00 1.10 1.20 1.30

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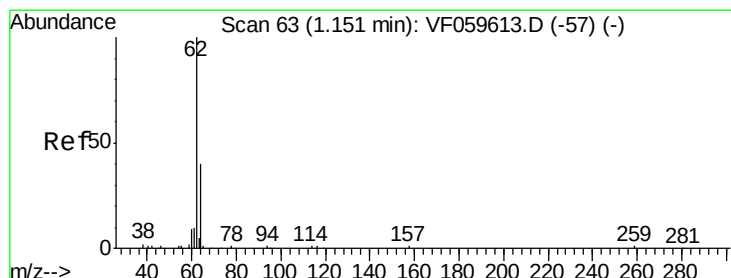
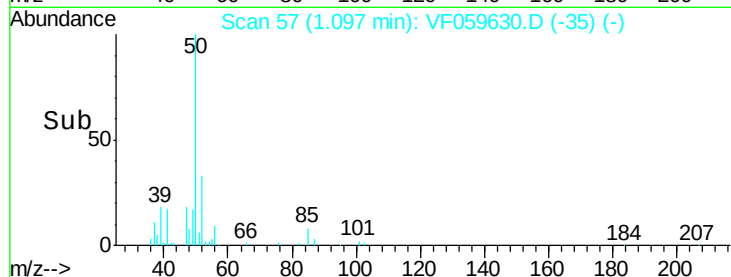
1.10

1.10

1.10

1.10

1.10



#4

Vinyl Chloride

Concen: 47.00 ug/l

RT: 1.16 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF059630.D

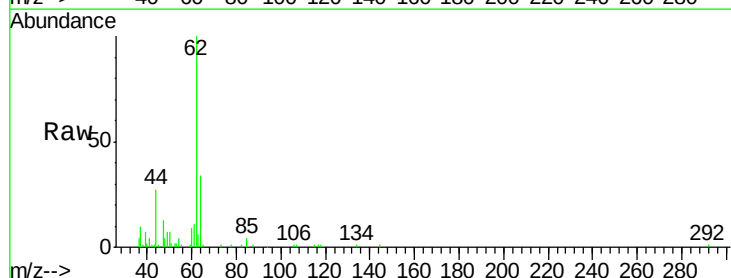
Acq: 23 Jul 2018 22:45

Tgt Ion: 62 Resp: 61144

Ion Ratio Lower Upper

62 100

64 33.7 32.2 48.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

20000

15000

10000

5000

0

Time-->

1.00 1.10 1.20 1.30

1.16

1.16

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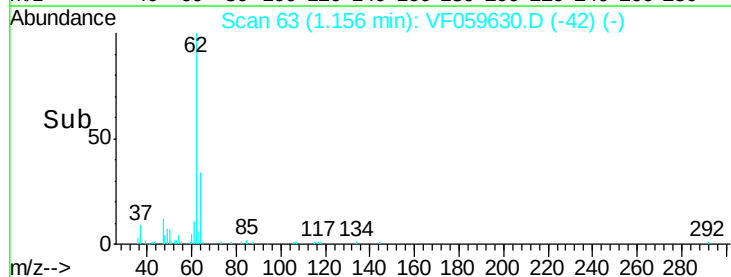
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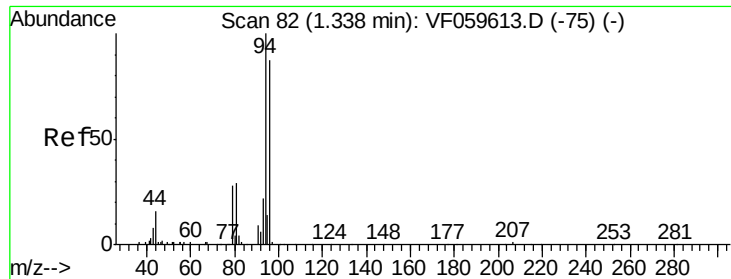
1.16

1.16

1.16

1.16





#5

Bromomethane

Concen: 32.93 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

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Tot Ion: 94 Resp: 37068

Ion Ratio Lower Upper

94 100

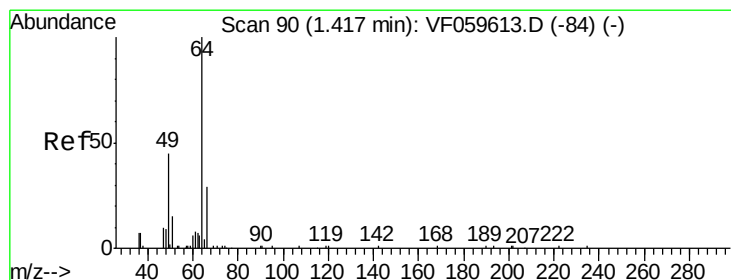
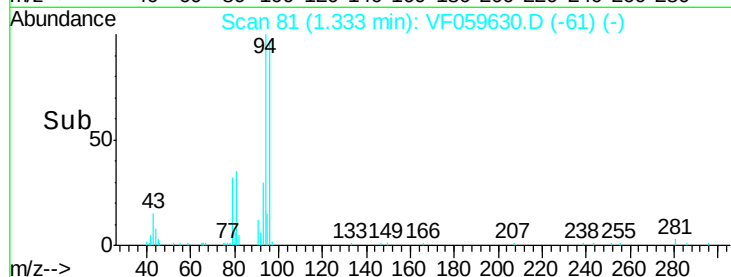
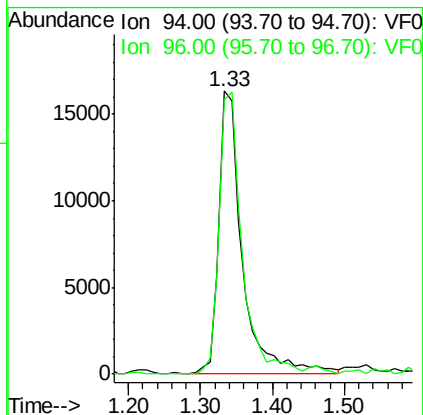
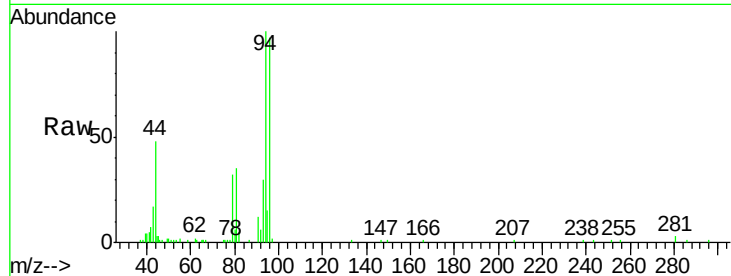
96 96.8 69.8 104.8

Manual Integrations

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#6

Chloroethane

Concen: 46.61 ug/l

RT: 1.42 min Scan# 90

Delta R.T. 0.00 min

Lab File: VF059630.D

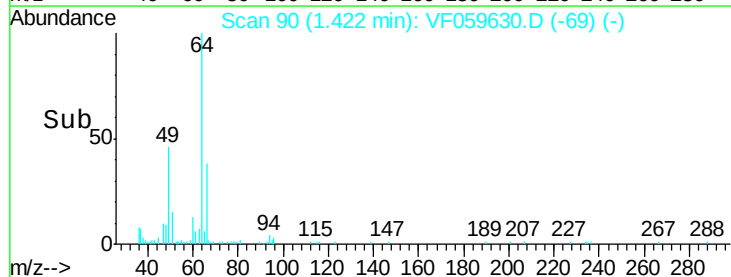
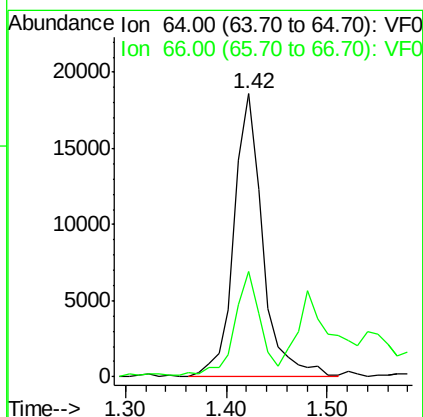
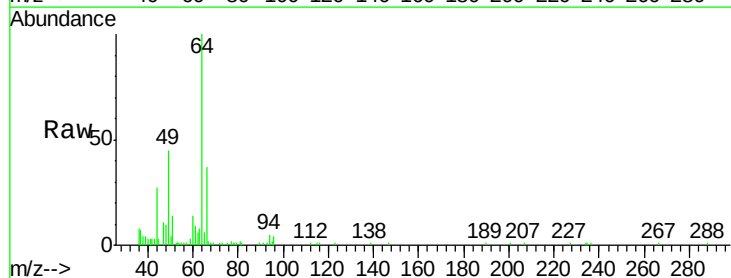
Acq: 23 Jul 2018 22:45

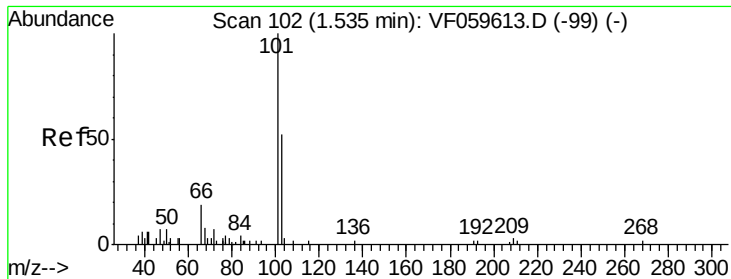
Tgt Ion: 64 Resp: 37005

Ion Ratio Lower Upper

64 100

66 39.0 23.7 35.5#





#7

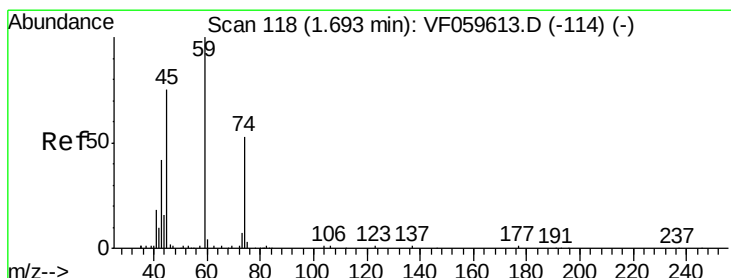
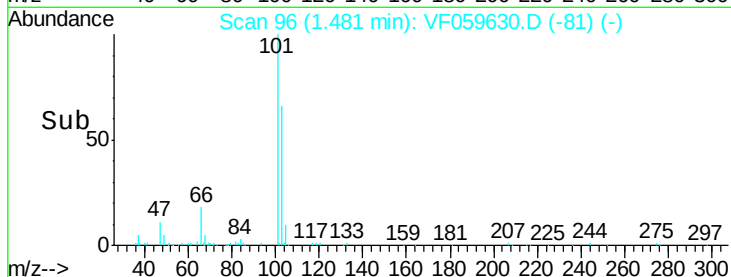
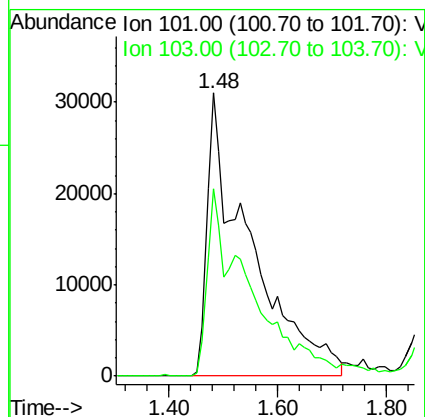
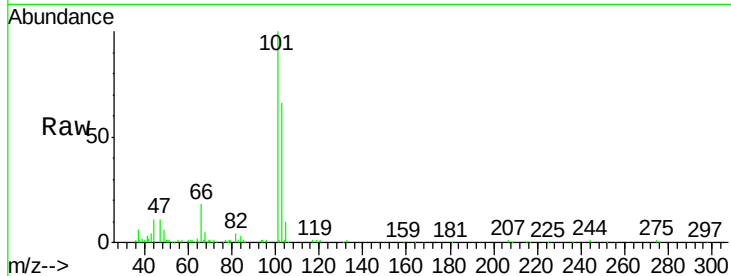
Trichlorofluoromethane
Concen: 47.20 ug/l m
RT: 1.48 min Scan# 96
Delta R.T. -0.05 min
Lab File: VF059630.D
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Tot Ion:101 Resp: 166981
Ion Ratio Lower Upper
101 100
103 66.0 48.2 72.4

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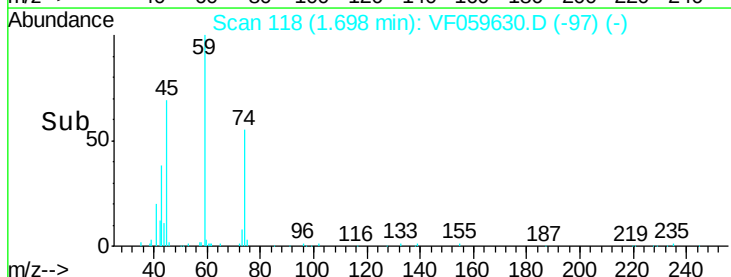
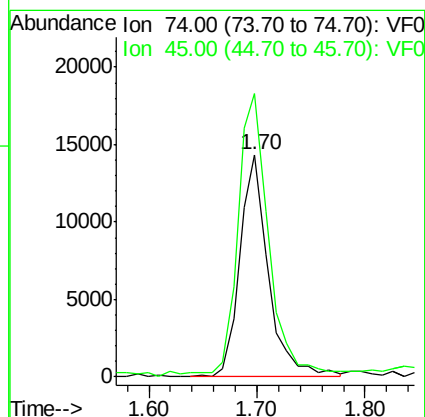
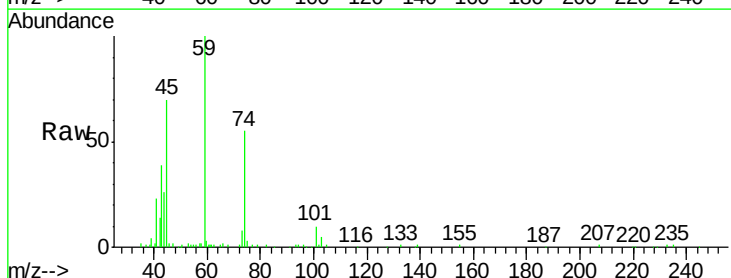
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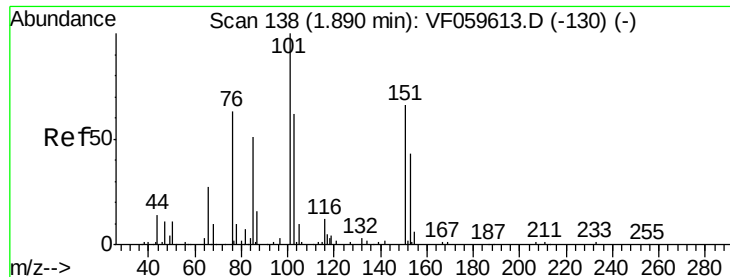


#8

Diethyl Ether
Concen: 51.69 ug/l
RT: 1.70 min Scan# 118
Delta R.T. 0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion: 74 Resp: 26245
Ion Ratio Lower Upper
74 100
45 127.2 72.0 215.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 42.59 ug/l

RT: 1.90 min Scan# 138

Delta R.T. 0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

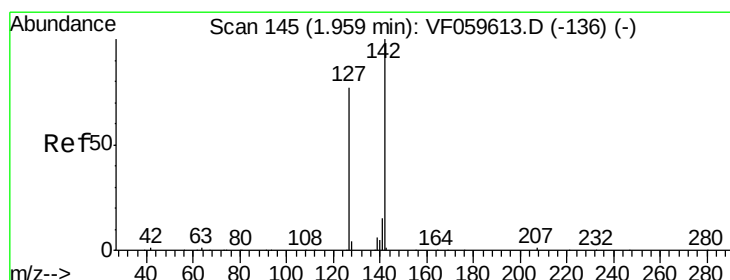
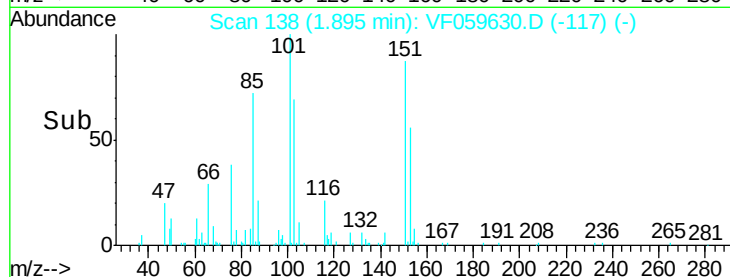
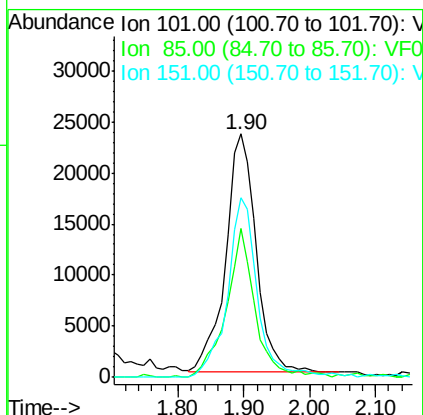
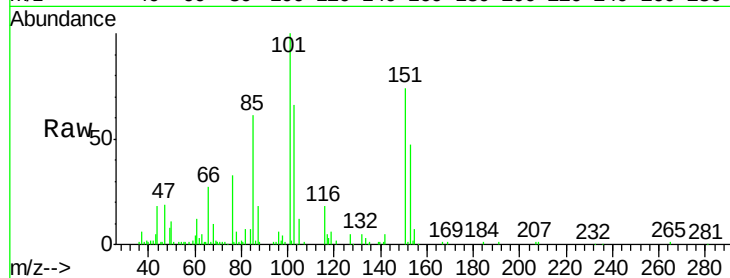
ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:	101	Resp:	75804
Ion Ratio	Lower	Upper	
101	100		
85	60.9	40.2	60.2#
151	73.7	51.4	77.2

Manual Integrations
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#10

Methyl Iodide

Concen: 31.82 ug/l

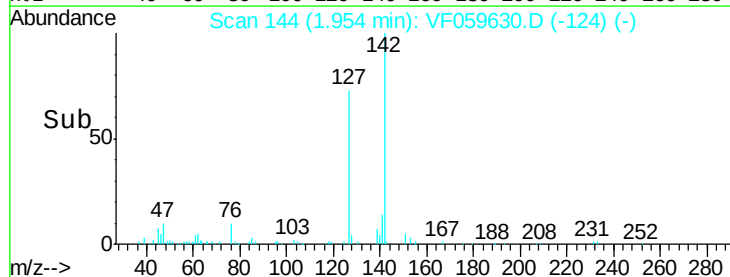
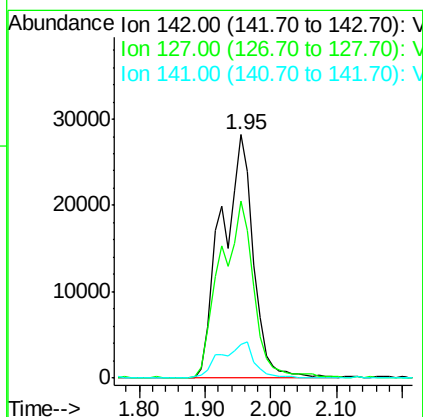
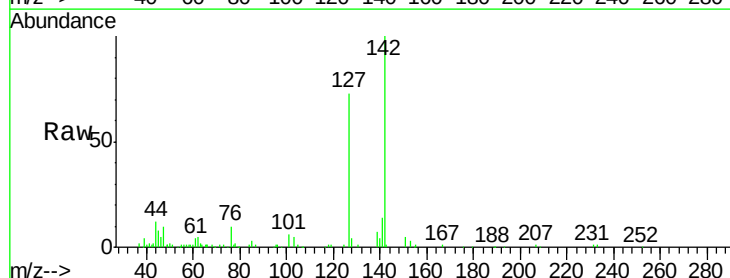
RT: 1.95 min Scan# 144

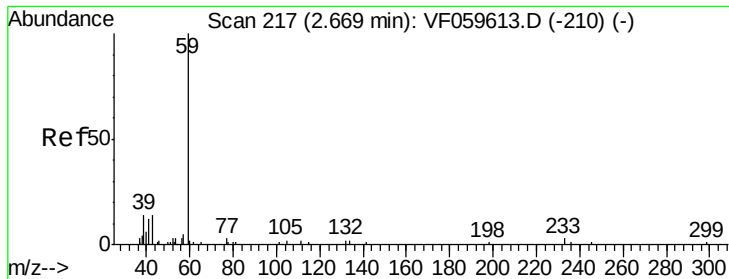
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	142	Resp:	95229
Ion Ratio	Lower	Upper	
142	100		
127	72.7	61.2	91.8
141	13.6	12.0	18.0





#11

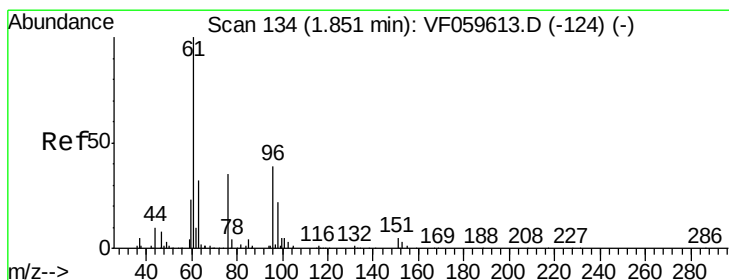
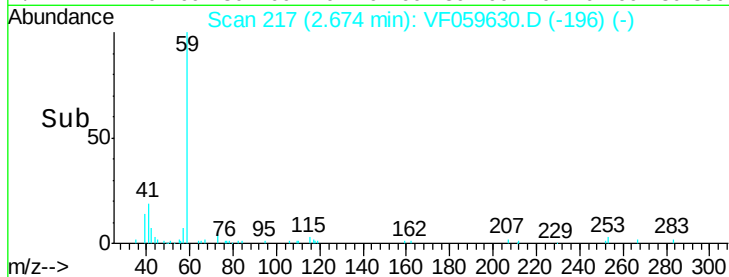
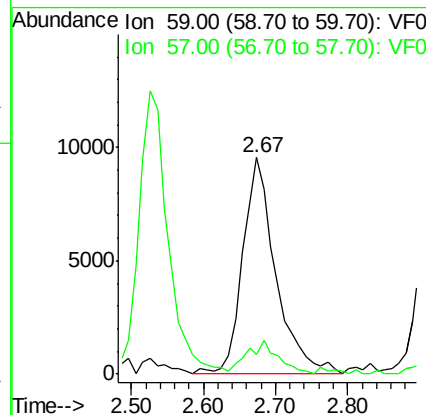
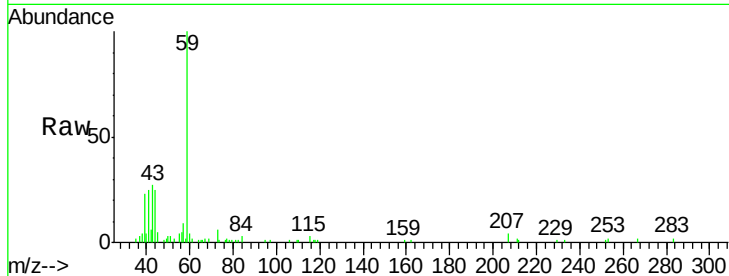
Tert butyl alcohol
Concen: 238.27 ug/l
RT: 2.67 min Scan# 217
Delta R.T. 0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.3	8.6	12.8

Manual Integrations
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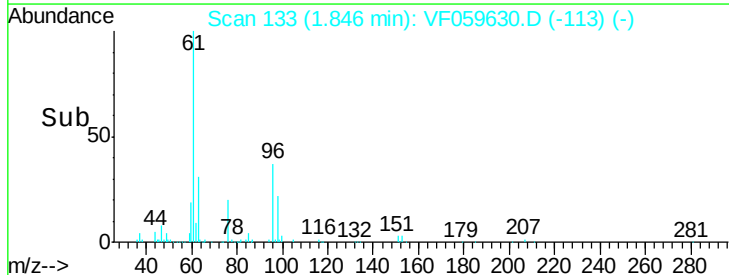
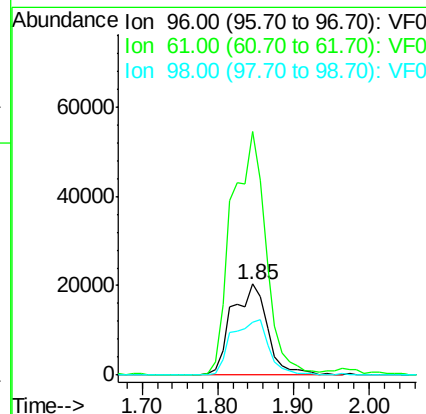
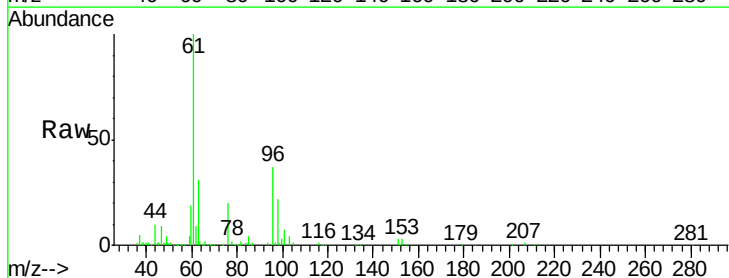
apatel
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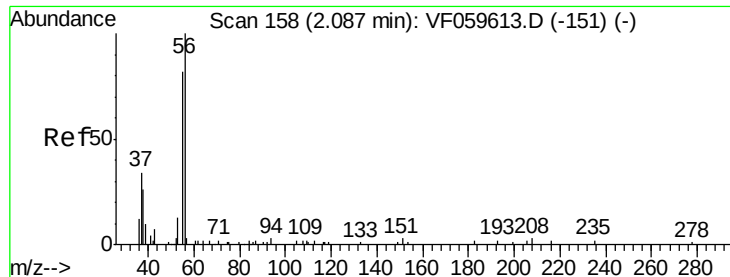


#12

1,1-Dichloroethene
Concen: 47.41 ug/l
RT: 1.85 min Scan# 133
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	268.1	207.2	310.8
98	58.6	45.5	68.3





#13

Acrolein

Concen: 5.15 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.03 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tot Ion: 56 Resp: 333

Ion Ratio Lower Upper

56 100

55 68.3 65.6 98.4

Instrument :

MSVOA_F

ClientSampleId :

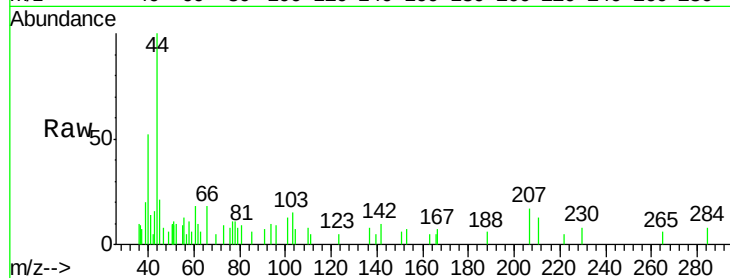
GL-TOPSOIL-09MS

Manual Integrations

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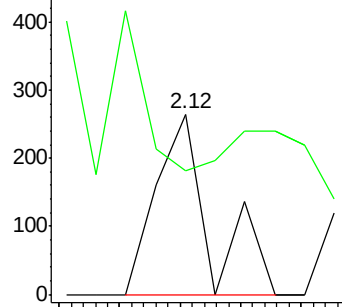
apatel

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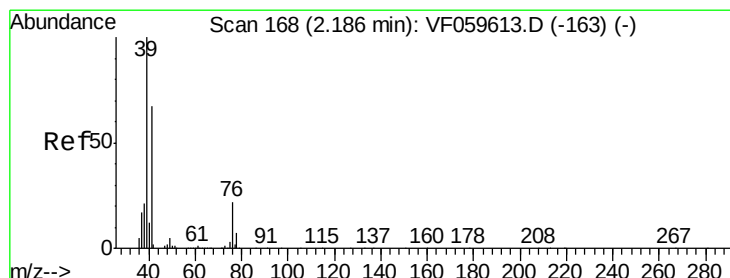
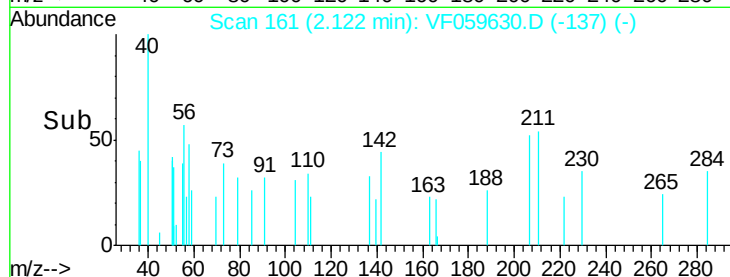


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#14

Allyl chloride

Concen: 31.61 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

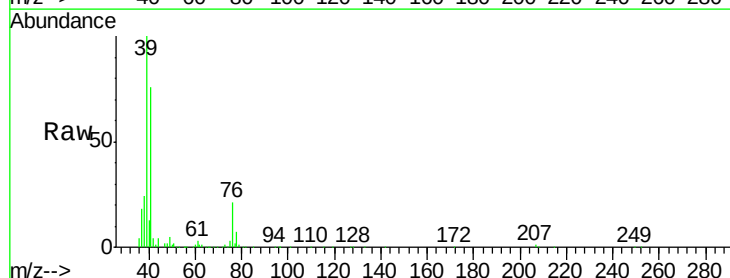
Tgt Ion: 41 Resp: 80746

Ion Ratio Lower Upper

41 100

39 131.2 119.0 178.4

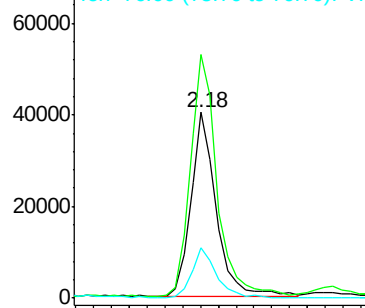
76 27.2 26.3 39.5



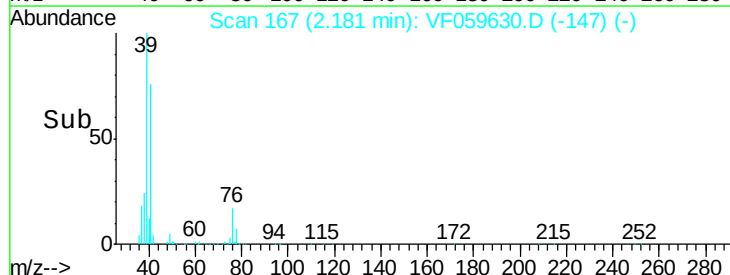
Abundance Ion 41.00 (40.70 to 41.70): VF0

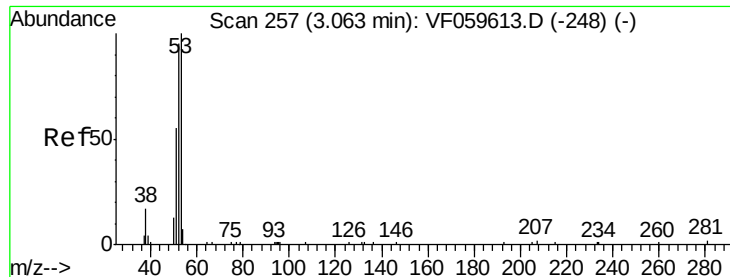
Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->





#15

Acrylonitrile

Concen: 196.73 ug/l

RT: 3.07 min Scan# 257

Delta R.T. 0.01 min

Lab File: VF059630.D

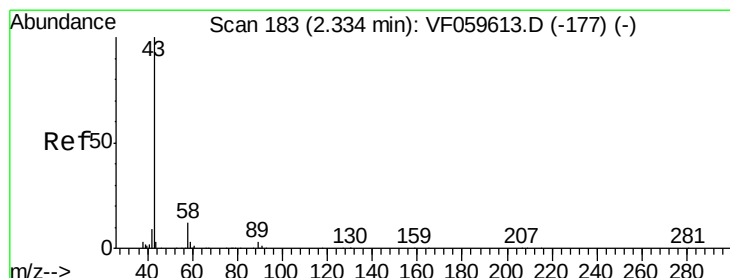
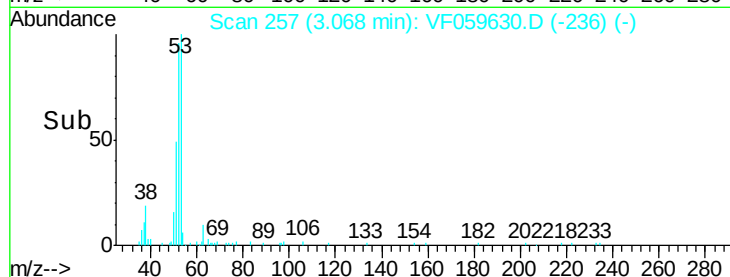
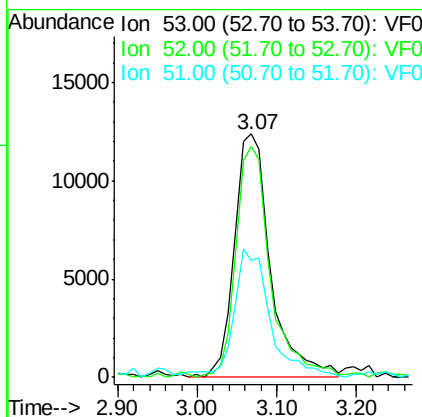
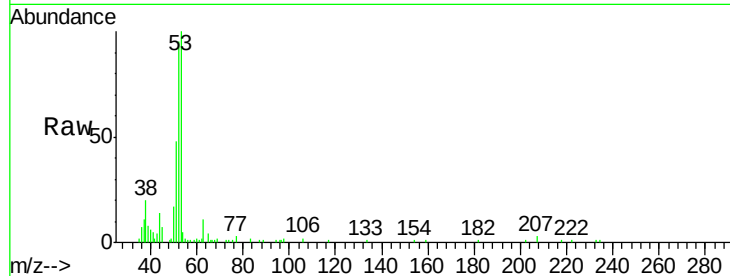
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion:	53	Resp:	39124
Ion	Ratio	Lower	Upper
53	100		
52	94.7	76.2	114.2
51	48.0	45.8	68.8

Manual Integrations
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#16

Acetone

Concen: 181.47 ug/l

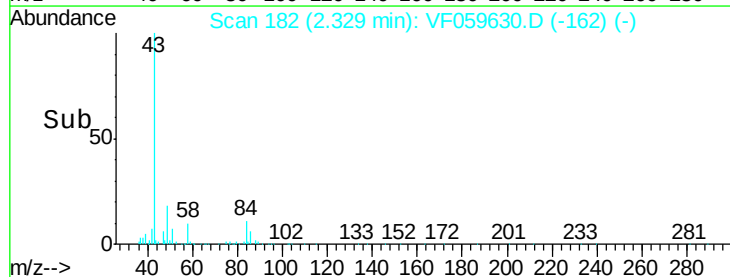
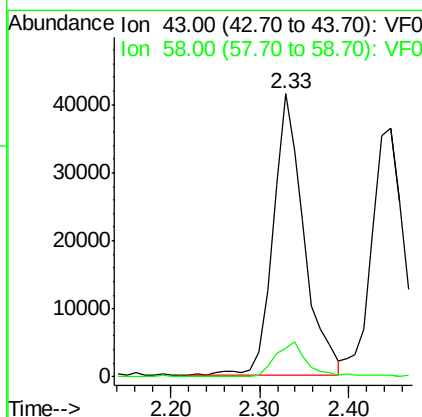
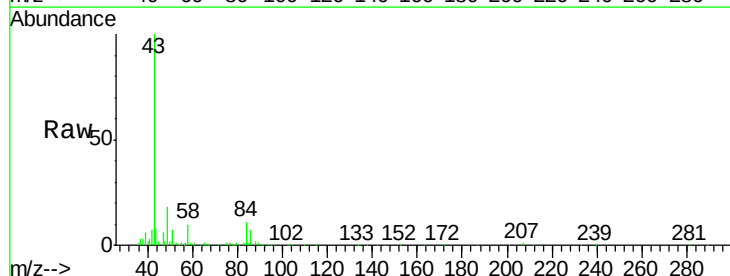
RT: 2.33 min Scan# 182

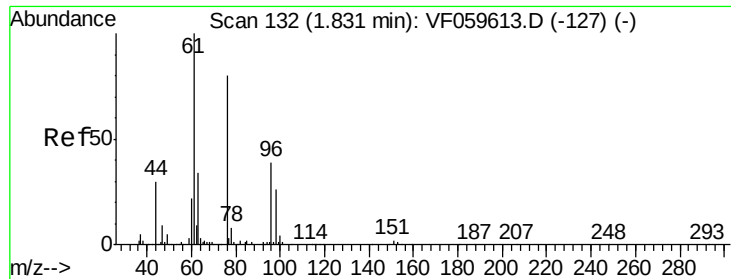
Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	43	Resp:	98549
Ion	Ratio	Lower	Upper
43	100		
58	10.2	9.8	14.8





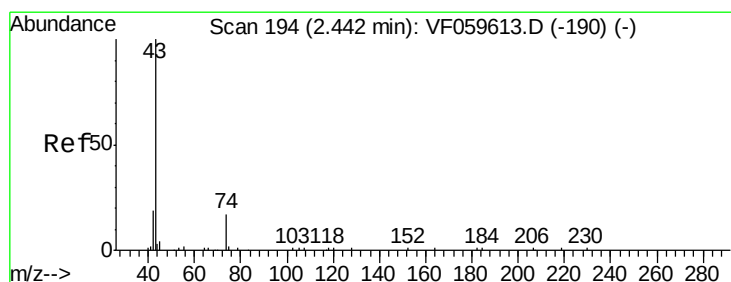
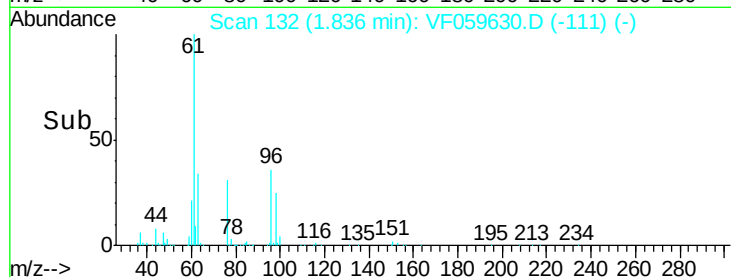
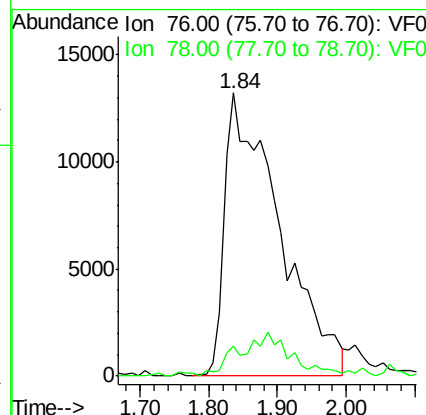
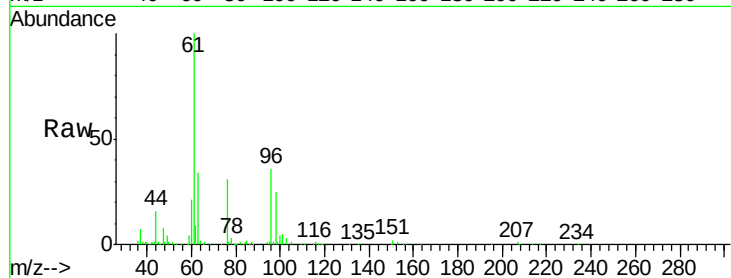
#17
Carbon Disulfide
Concen: 19.99 ug/l
RT: 1.84 min Scan# 132
Delta R.T. 0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.4	7.7	11.5

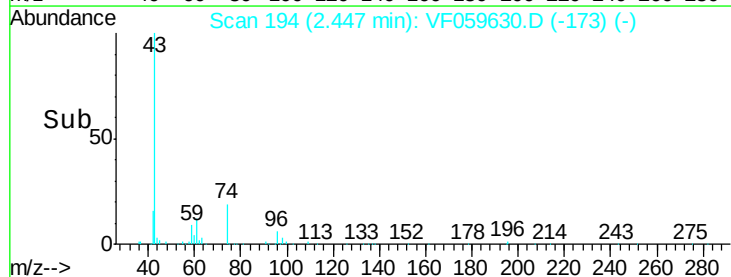
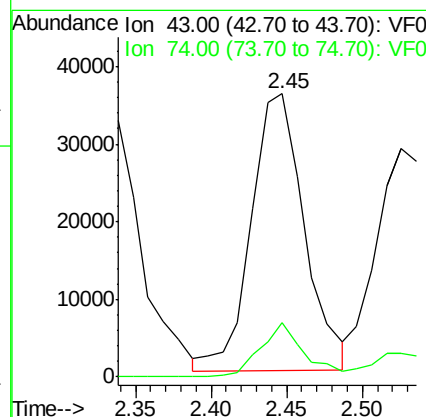
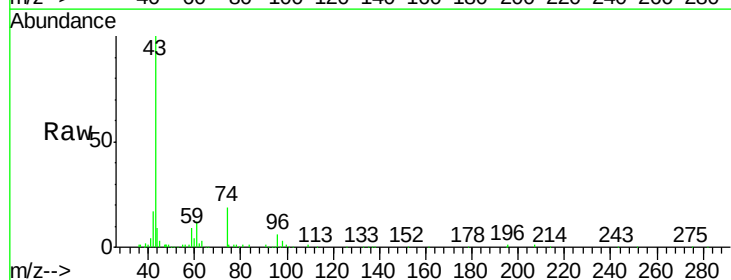
Manual Integrations
APPROVED

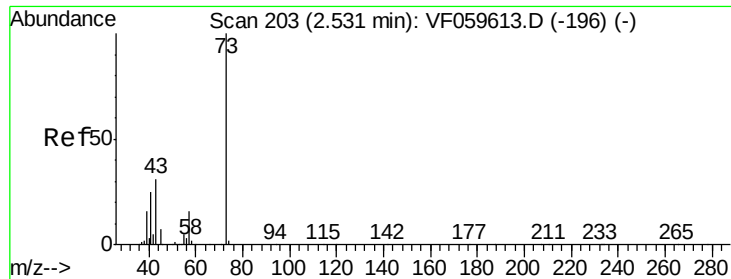
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#18
Methyl Acetate
Concen: 129.20 ug/l
RT: 2.45 min Scan# 194
Delta R.T. 0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.2	11.4	17.0#





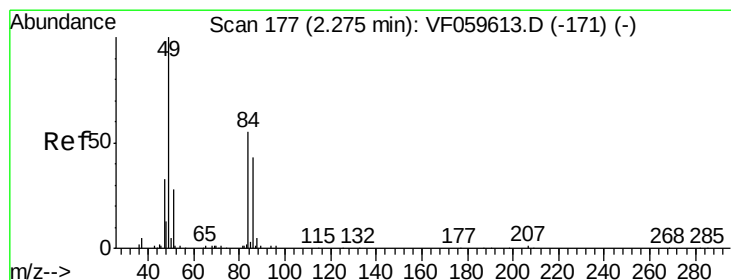
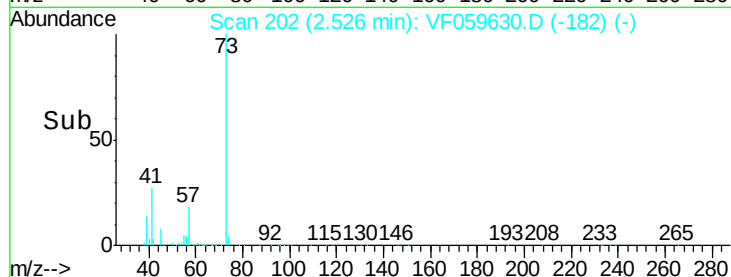
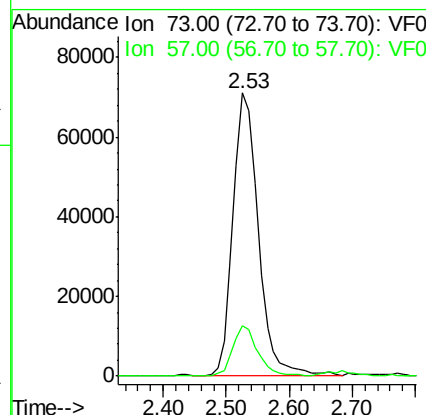
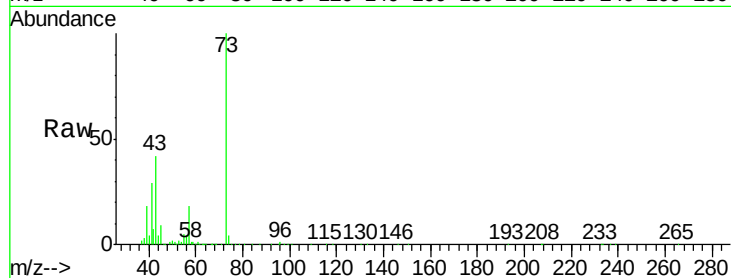
#19
Methyl tert-butyl Ether
Concen: 48.39 ug/l
RT: 2.53 min Scan# 202
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion: 73 Resp: 198987
Ion Ratio Lower Upper
73 100
57 17.6 13.2 19.8

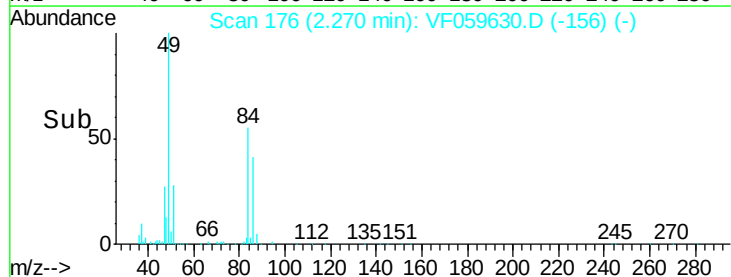
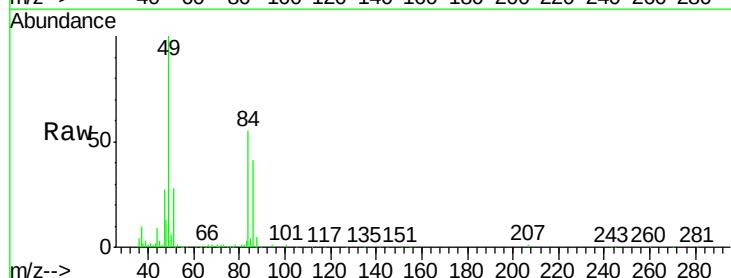
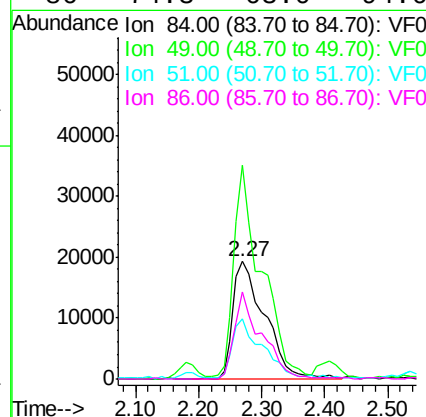
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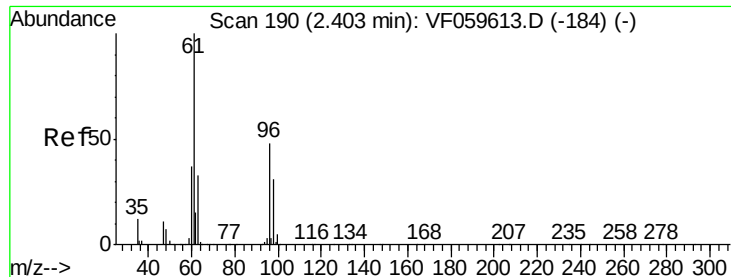
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#20
Methylene Chloride
Concen: 55.25 ug/l
RT: 2.27 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion: 84 Resp: 67565
Ion Ratio Lower Upper
84 100
49 182.1 148.6 222.8
51 51.8 42.7 64.1
86 74.3 63.0 94.6





#21

trans-1,2-Dichloroethene

Concen: 44.18 ug/l

RT: 2.41 min Scan# 190

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

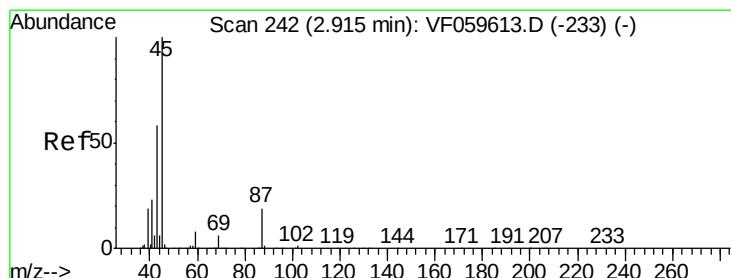
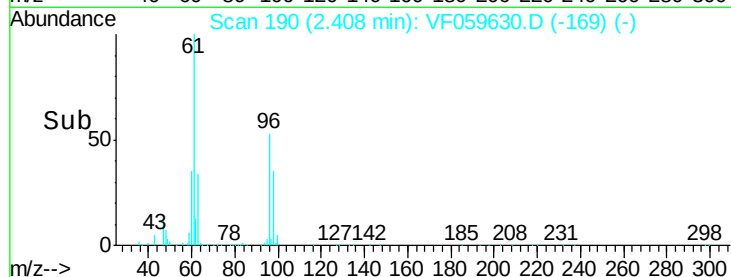
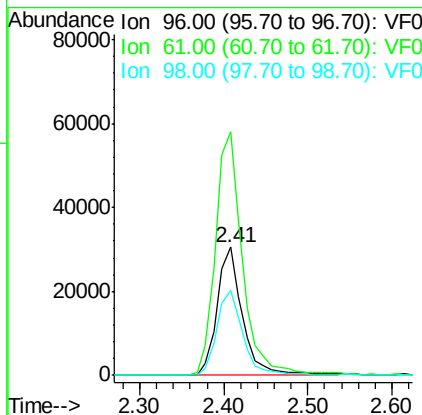
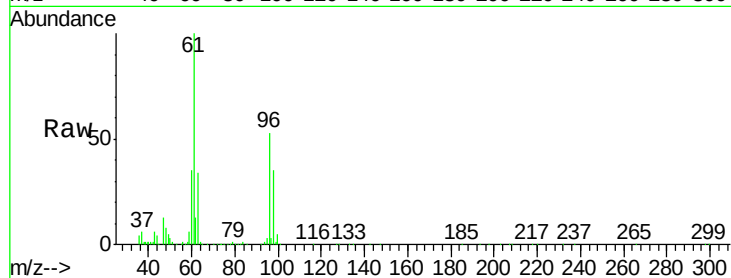
ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:	96	Resp:	64072
Ion Ratio	Lower	Upper	
96	100		
61	190.2	167.0	250.6
98	66.7	51.8	77.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 51.04 ug/l

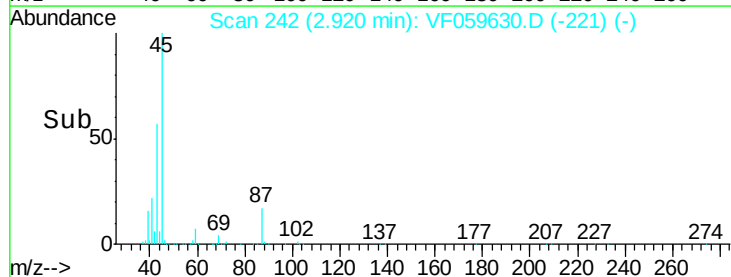
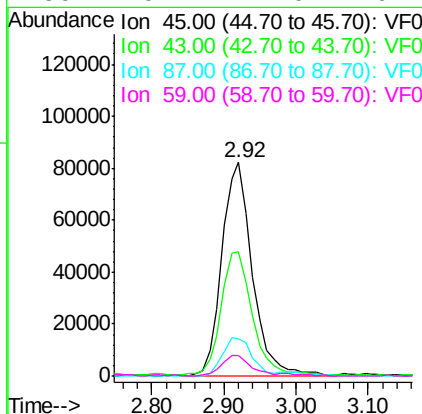
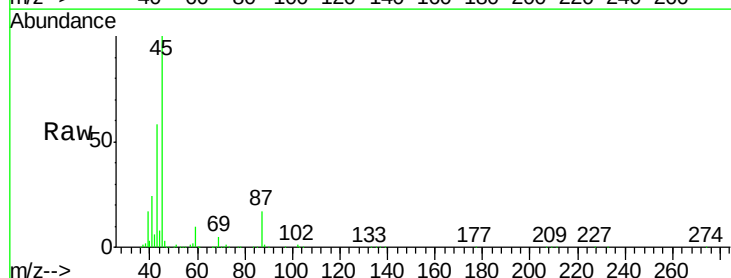
RT: 2.92 min Scan# 242

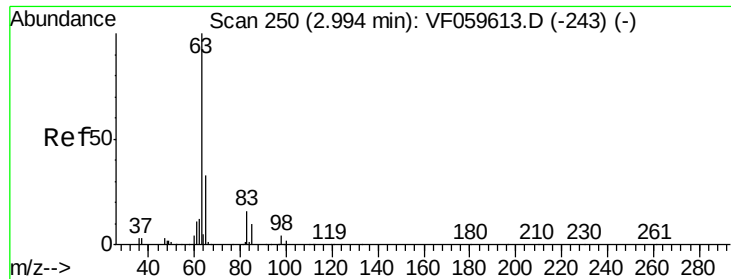
Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	45	Resp:	238903
Ion Ratio	Lower	Upper	
45	100		
43	57.9	46.7	70.1
87	17.4	15.0	22.6
59	9.7	7.0	10.4





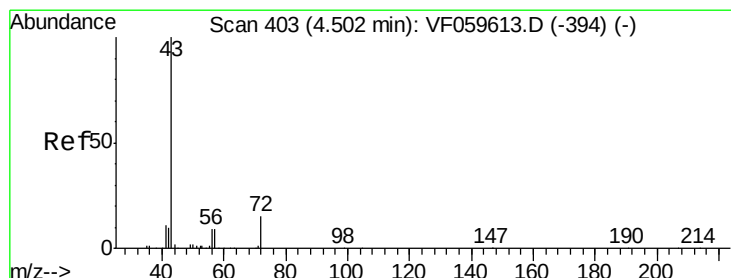
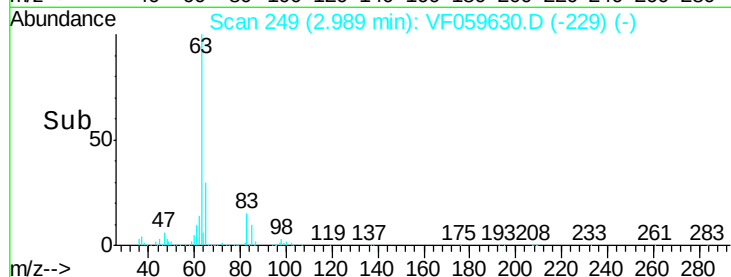
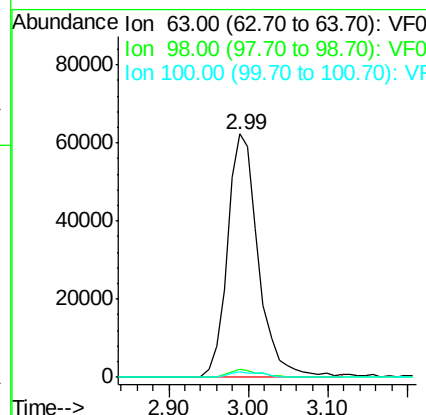
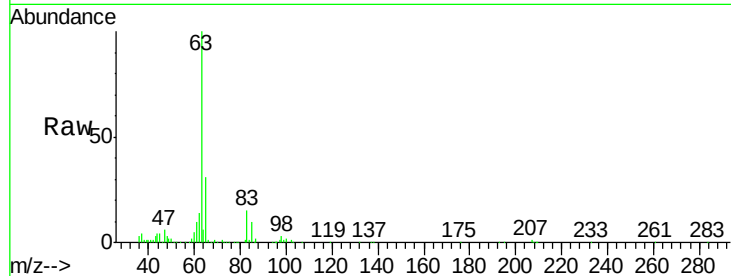
#24
 1,1-Dichloroethane
 Concen: 50.55 ug/l
 RT: 2.99 min Scan# 249
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

Tot Ion	Ratio	Resp	Lower	Upper
63	100	169599		
98	3.4		1.9	5.7
100	2.3		1.2	3.6

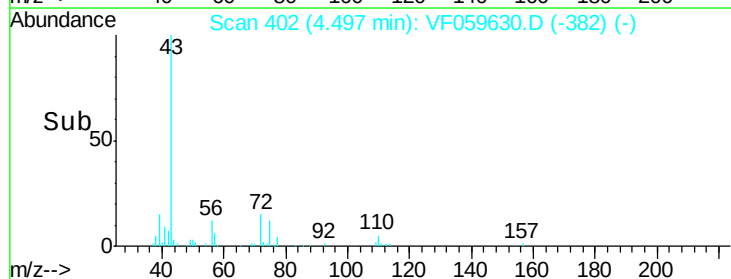
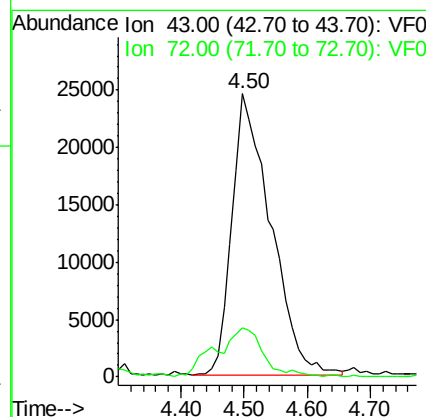
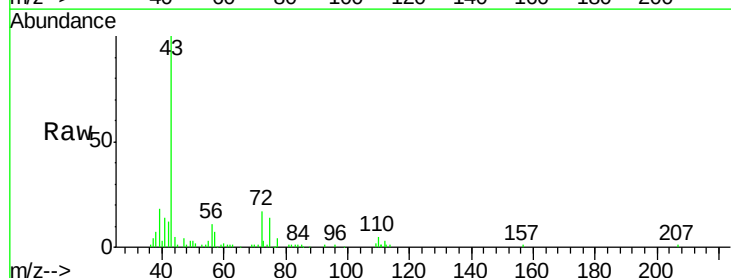
Manual Integrations
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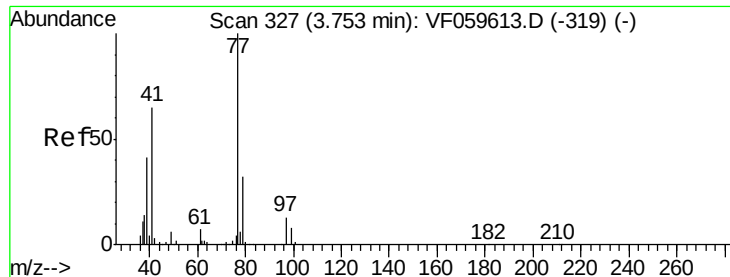
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#25
 2-Butanone
 Concen: 187.68 ug/l
 RT: 4.50 min Scan# 402
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	105085		
72	17.4		12.9	19.3





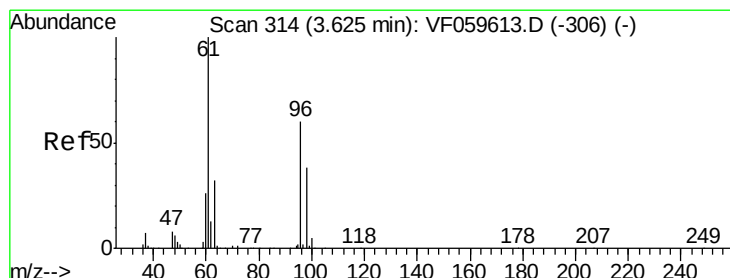
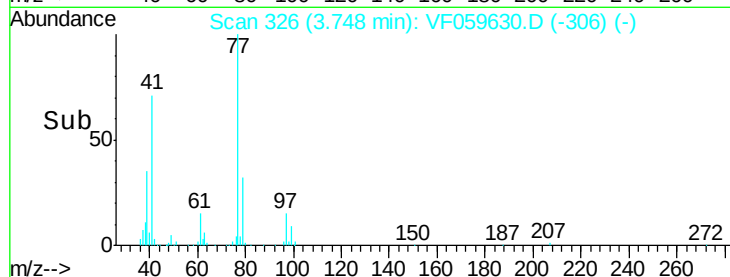
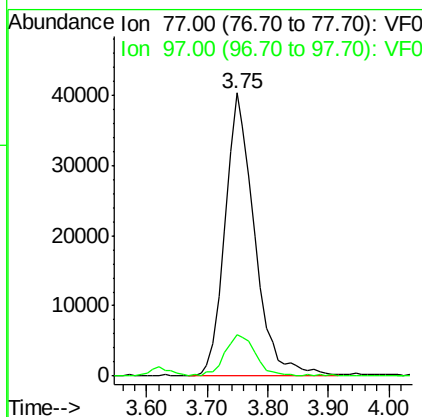
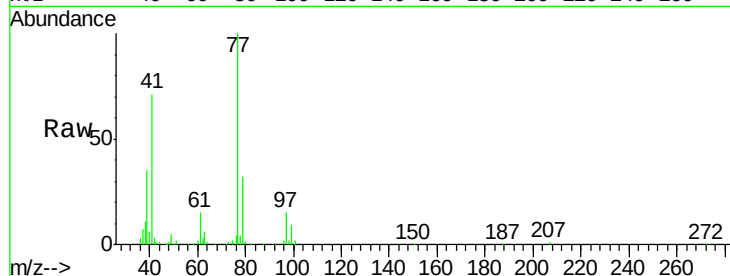
#26
 2,2-Dichloropropane
 Concen: 48.30 ug/l
 RT: 3.75 min Scan# 326
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
77	100		
97	14.8	7.1	21.3

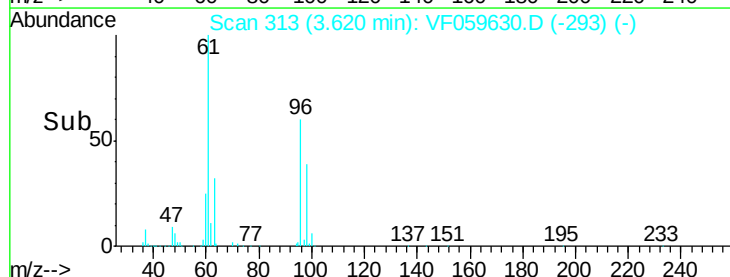
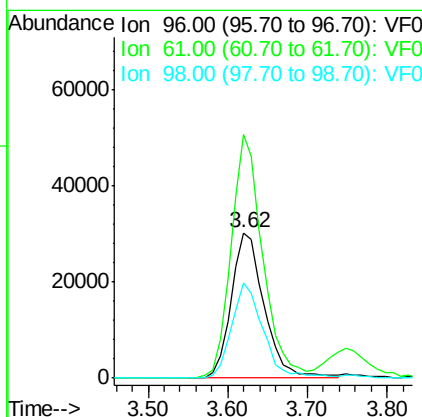
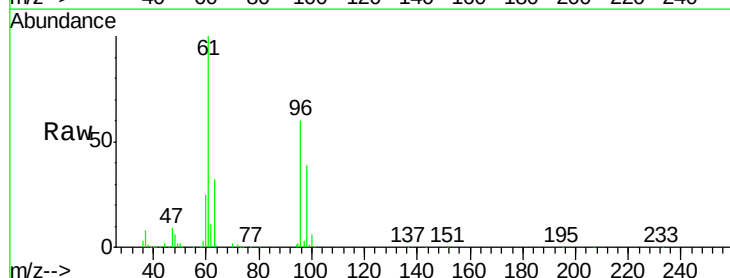
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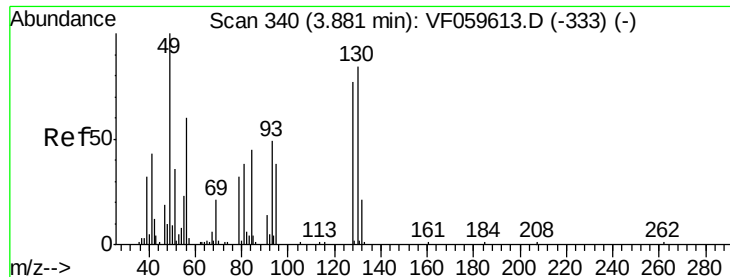
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#27
 cis-1,2-Dichloroethene
 Concen: 52.61 ug/l
 RT: 3.62 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.5	0.0	335.2
98	65.2	0.0	126.6





#28

Bromochloromethane

Concen: 48.92 ug/l

RT: 3.88 min Scan# 339

Delta R.T. -0.01 min

Lab File: VF059630.D

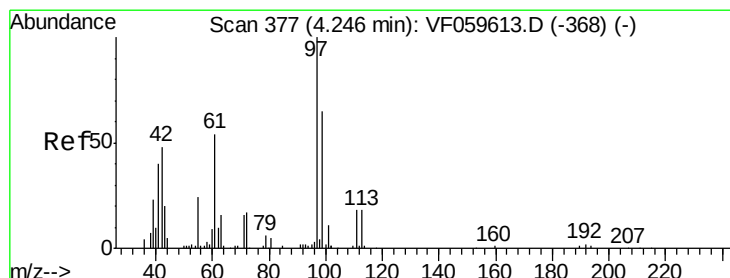
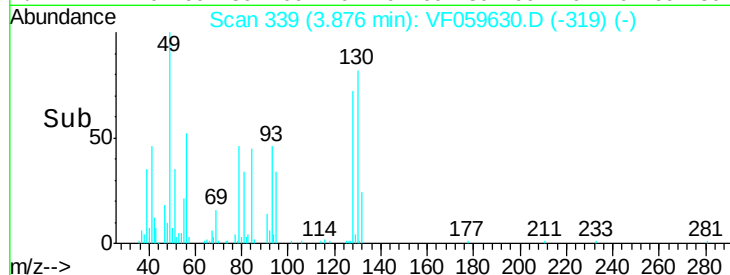
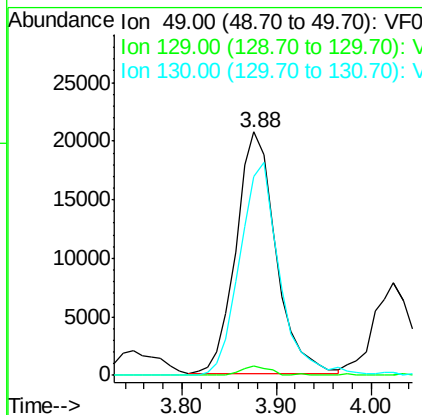
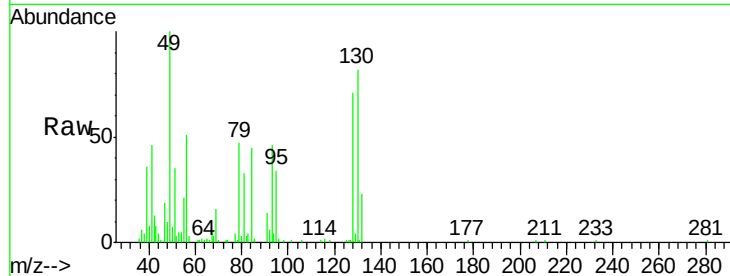
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
49	100		
129	3.9	0.0	4.6
130	81.6	67.1	100.7

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#29

Tetrahydrofuran

Concen: 219.59 ug/l

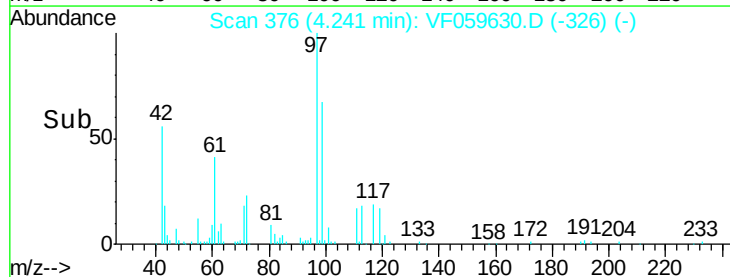
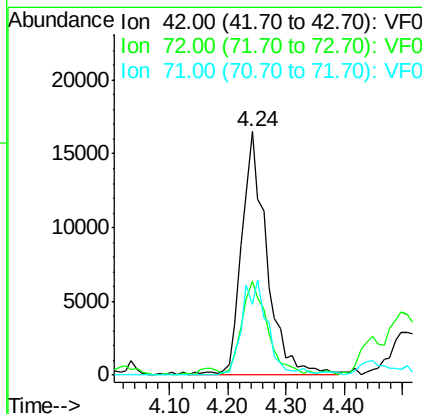
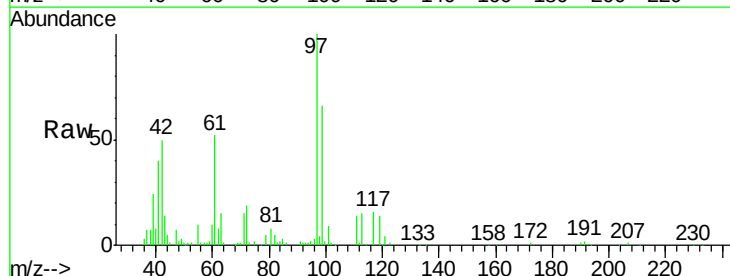
RT: 4.24 min Scan# 376

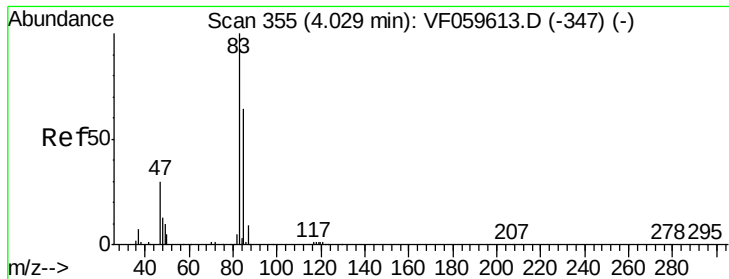
Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
42	100		
72	39.9	27.9	41.9
71	38.7	29.3	43.9





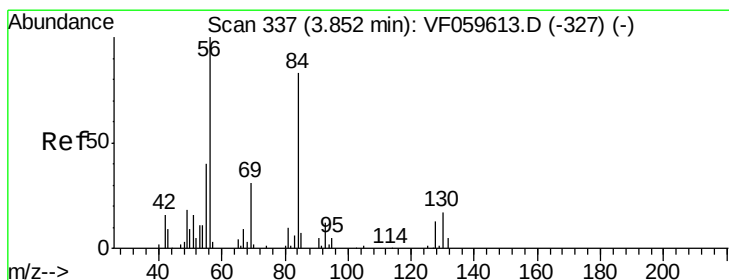
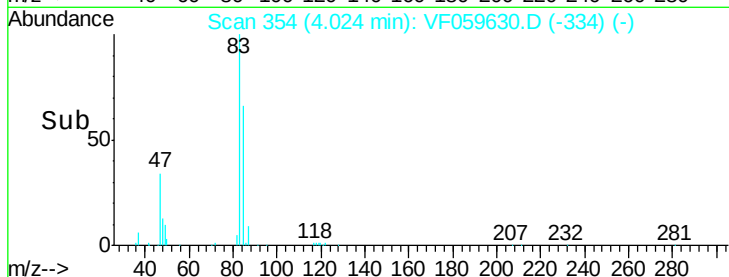
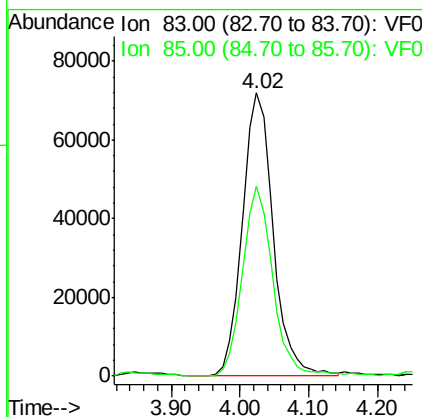
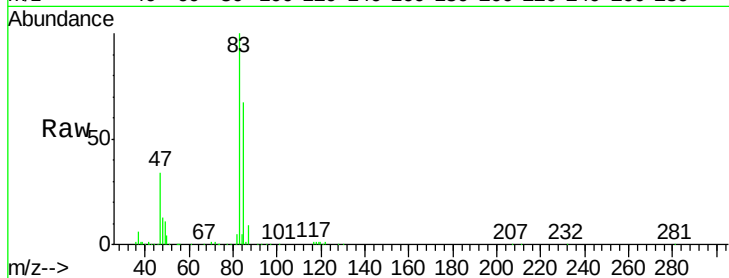
#30
Chloroform
Concen: 48.77 ug/l
RT: 4.02 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	83	Resp	224947
Ion Ratio	Lower	Upper	
83	100		
85	67.0	51.1	76.7

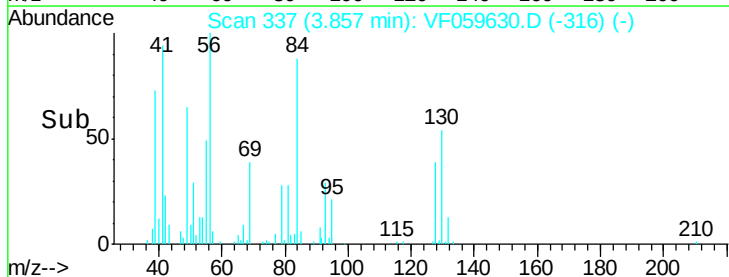
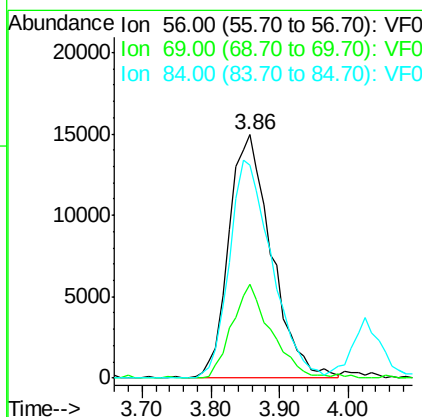
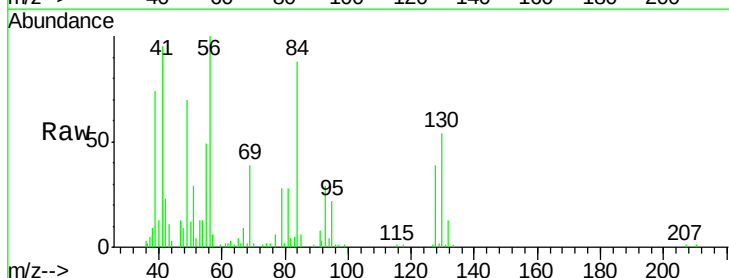
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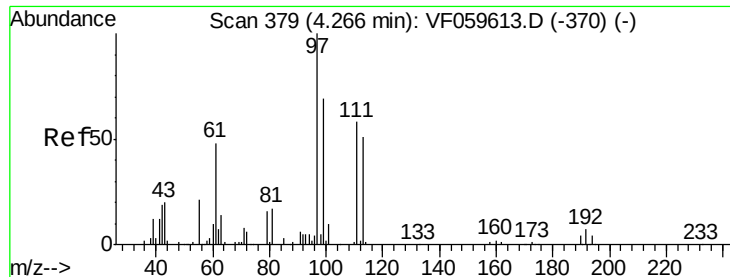
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#31
Cyclohexane
Concen: 34.48 ug/l
RT: 3.86 min Scan# 337
Delta R.T. 0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion	56	Resp	64367
Ion Ratio	Lower	Upper	
56	100		
69	38.8	24.6	37.0#
84	87.6	66.6	99.8





#32

1,1,1-Trichloroethane

Concen: 47.93 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

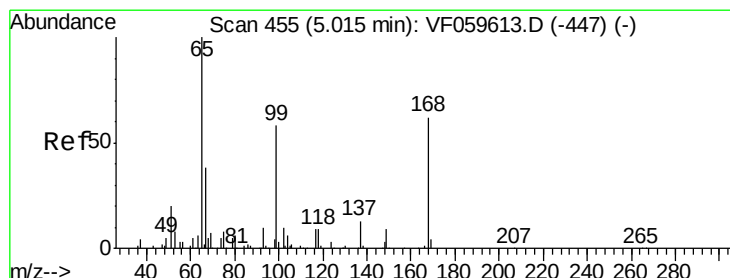
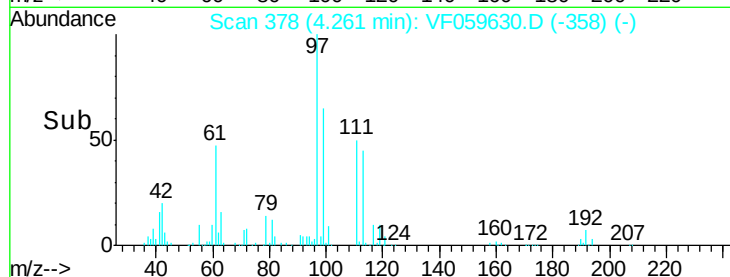
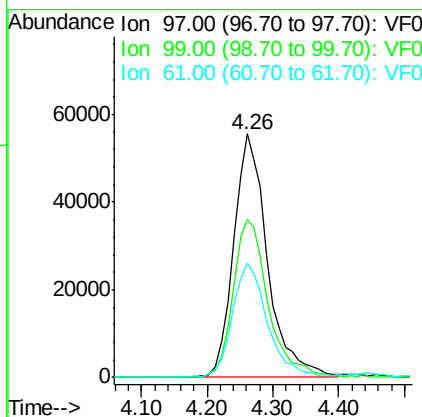
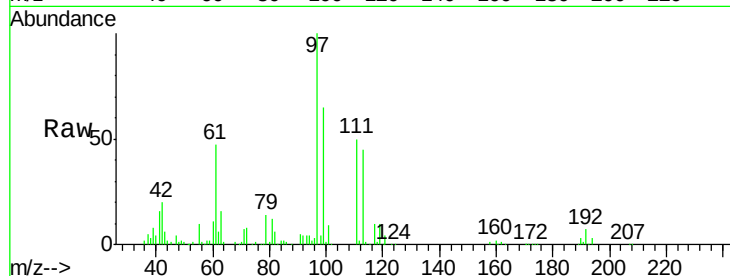
ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:	97	Resp:	200186
Ion Ratio	Lower	Upper	
97	100		
99	64.8	55.4	83.2
61	47.0	39.3	58.9

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#33

1,2-Dichloroethane-d4

Concen: 50.81 ug/l

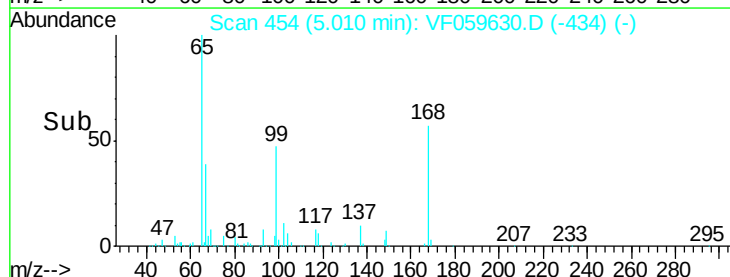
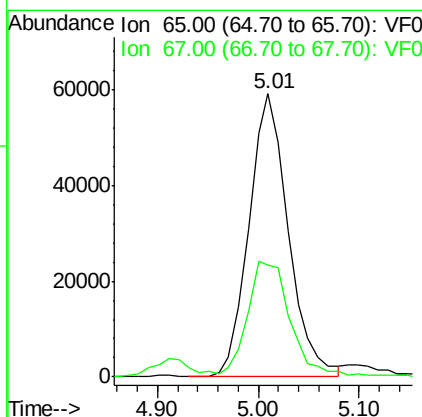
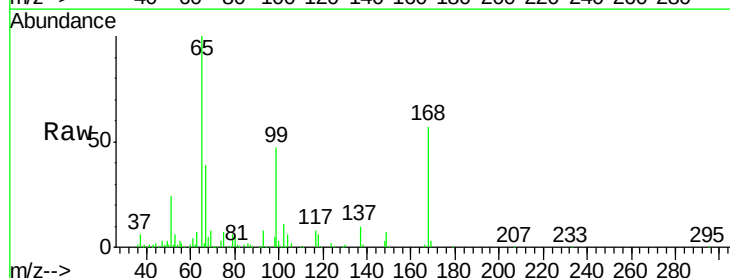
RT: 5.01 min Scan# 454

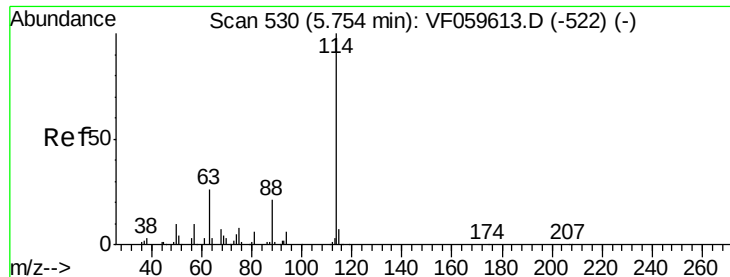
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	65	Resp:	160933
Ion Ratio	Lower	Upper	
65	100		
67	39.4	0.0	83.8





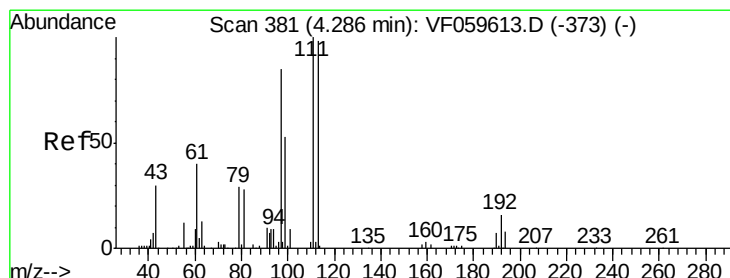
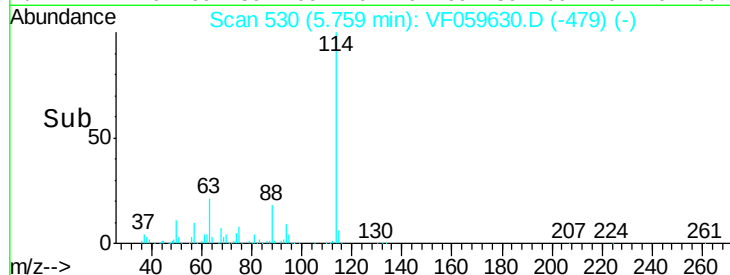
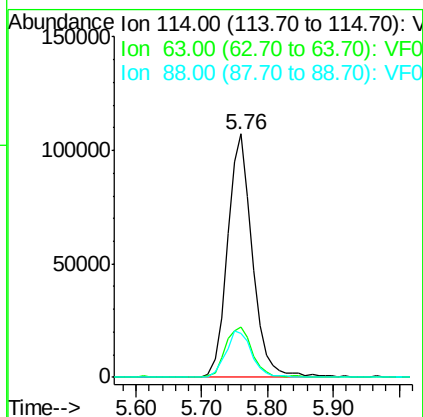
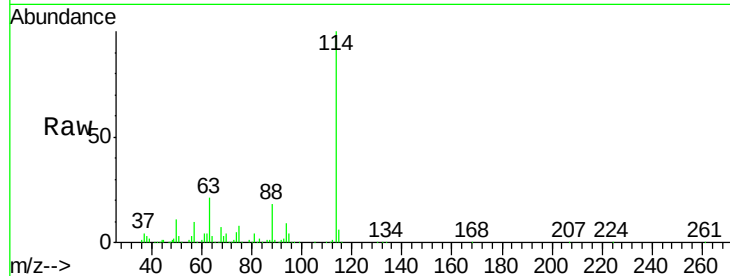
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	20.8	0.0	51.8
88	18.1	0.0	42.8

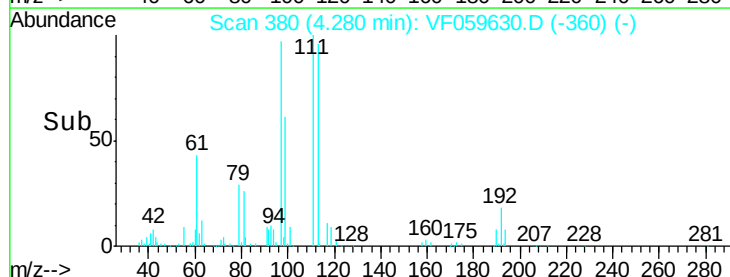
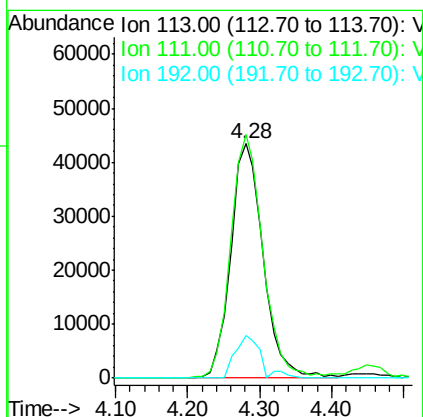
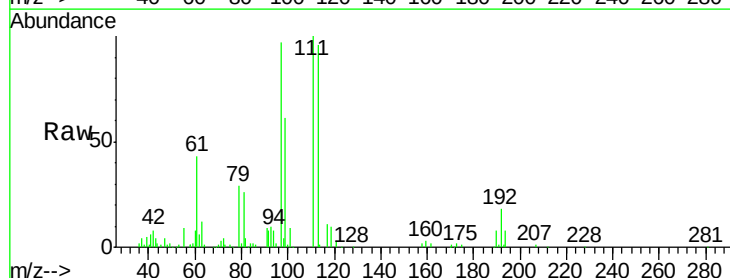
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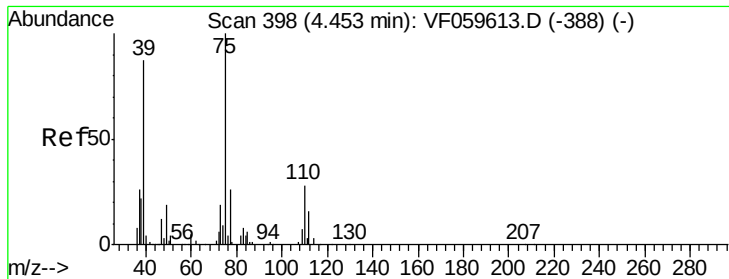
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#35
 Dibromofluoromethane
 Concen: 52.06 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	103.8	81.5	122.3
192	18.2	13.4	20.2





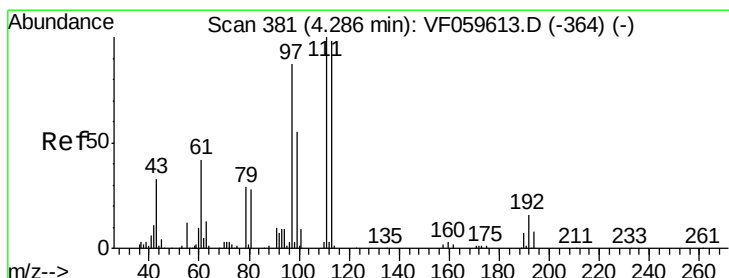
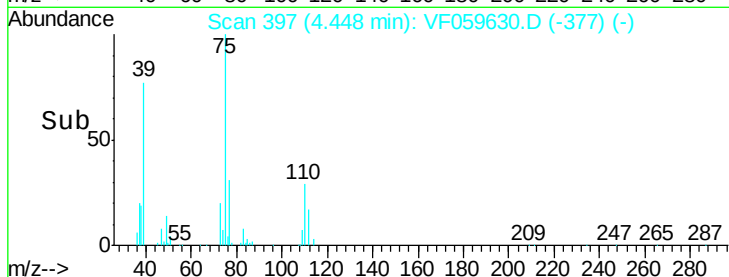
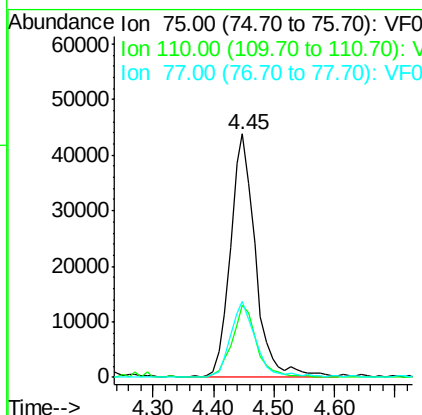
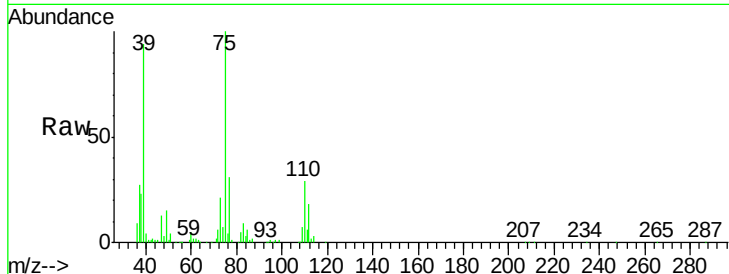
#36
 1,1-Dichloropropene
 Concen: 43.96 ug/l
 RT: 4.45 min Scan# 397
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
75	100		
110	29.4	14.2	42.6
77	31.3	20.3	30.5#

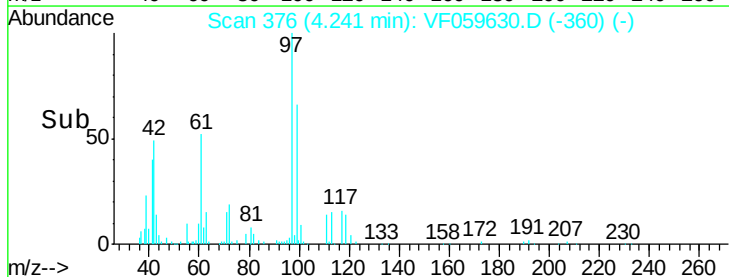
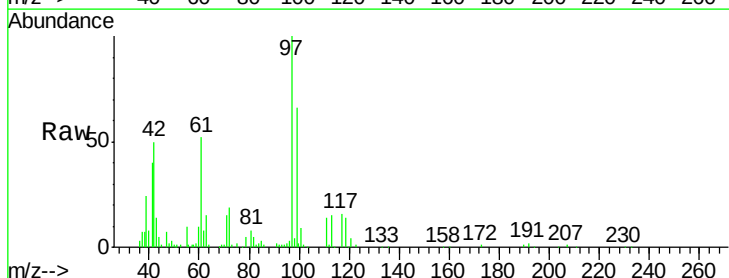
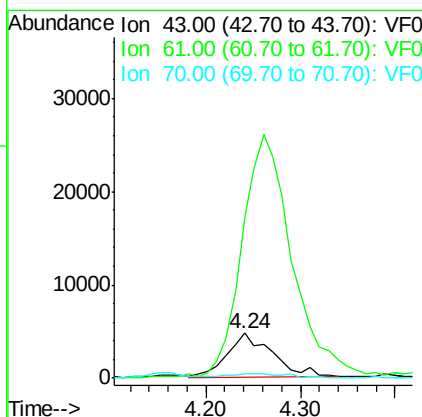
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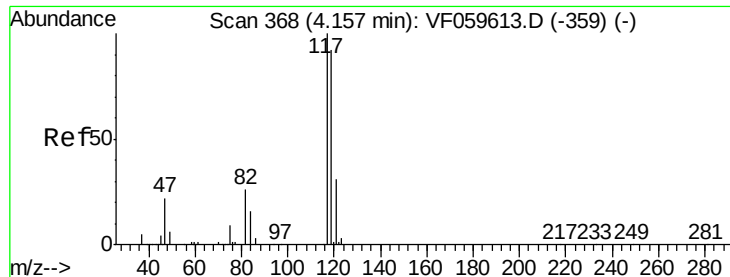
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#37
 Ethyl Acetate
 Concen: 13.42 ug/l
 RT: 4.24 min Scan# 376
 Delta R.T. -0.04 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
43	100		
61	360.5	101.9	152.9#
70	9.6	7.9	11.9





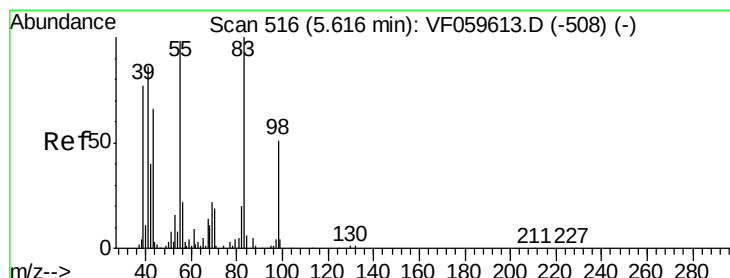
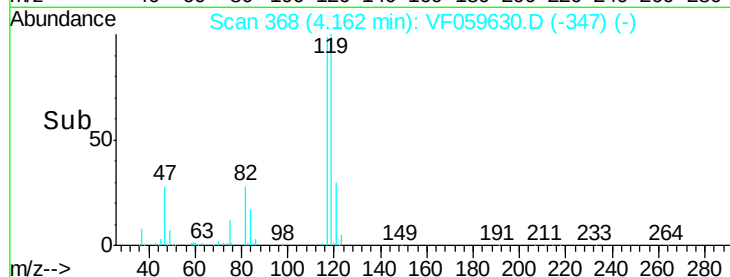
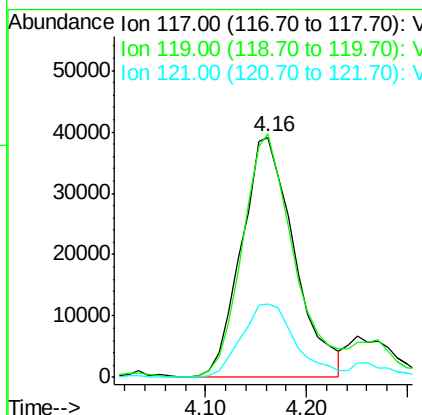
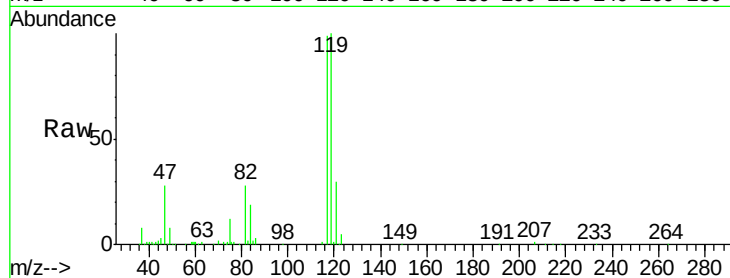
#38
Carbon Tetrachloride
Concen: 32.26 ug/l
RT: 4.16 min Scan# 368
Delta R.T. 0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
117	100		
119	101.3	74.2	111.4
121	30.5	24.7	37.1

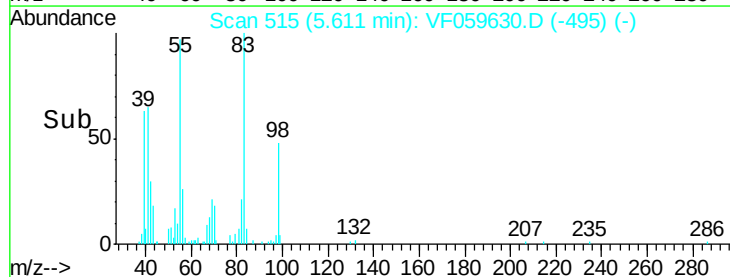
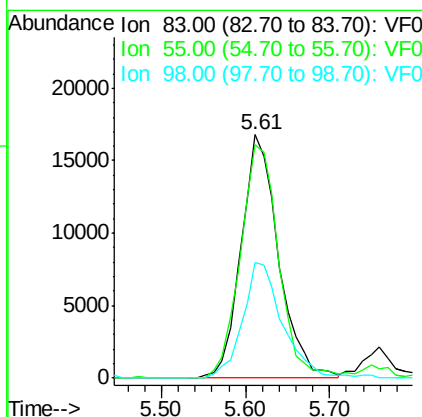
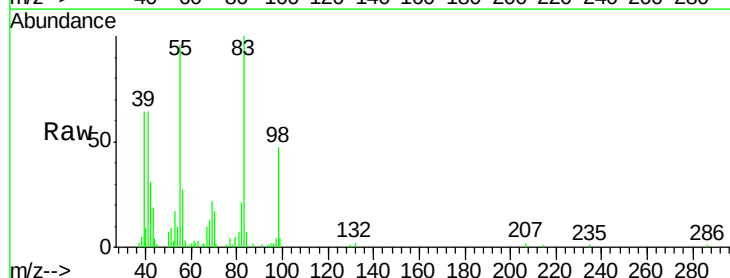
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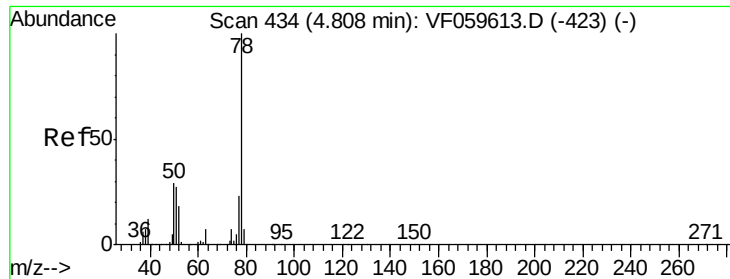
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#39
Methylcyclohexane
Concen: 22.41 ug/l
RT: 5.61 min Scan# 515
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
83	100		
55	95.7	78.5	117.7
98	47.3	41.1	61.7





#40

Benzene

Concen: 47.11 ug/l

RT: 4.80 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion: 78 Resp: 247564

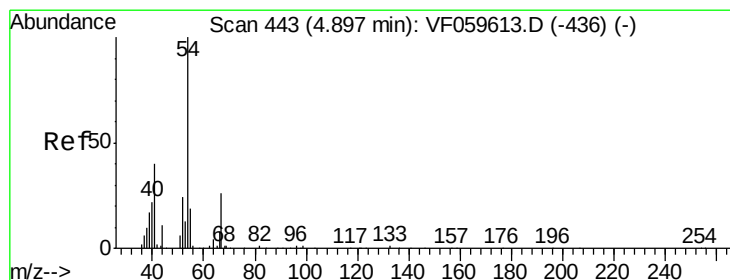
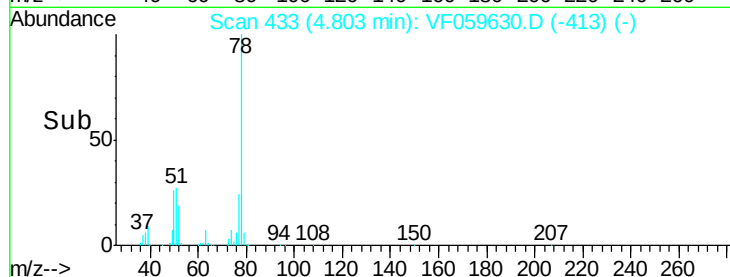
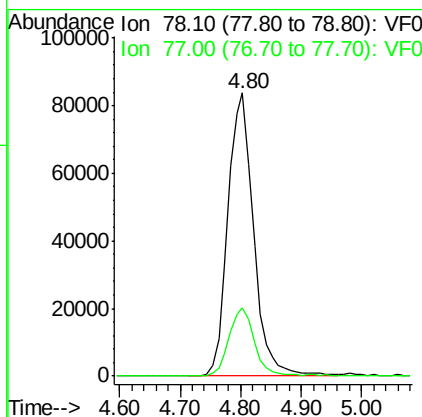
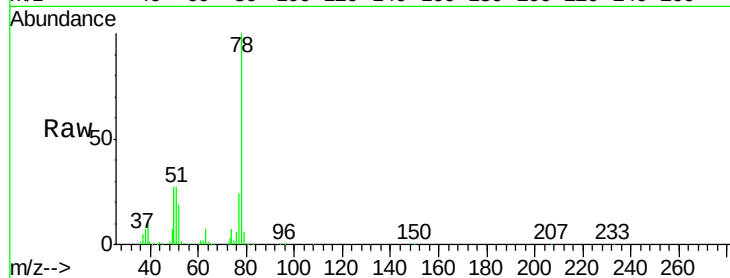
Ion Ratio Lower Upper

78 100

77 24.1 18.4 27.6

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#41

Methacrylonitrile

Concen: 32.89 ug/l

RT: 4.91 min Scan# 444

Delta R.T. 0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion: 41 Resp: 19489

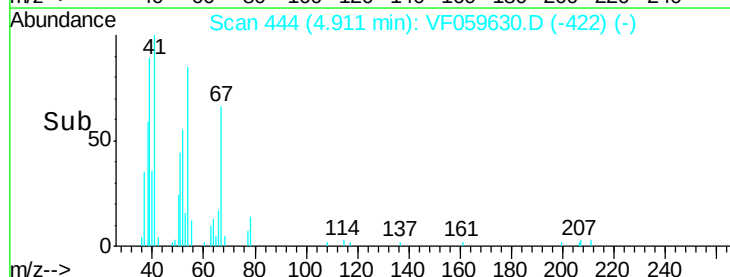
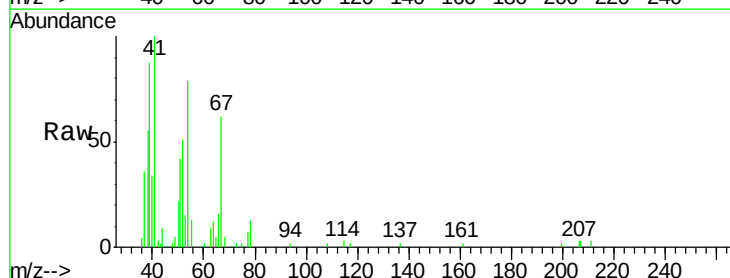
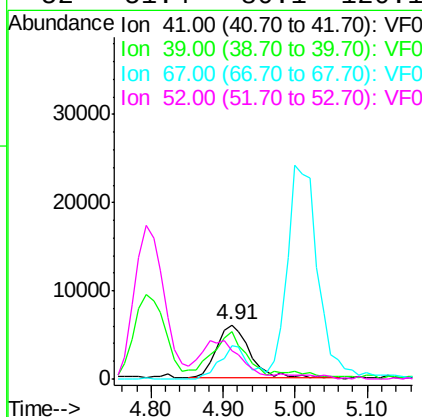
Ion Ratio Lower Upper

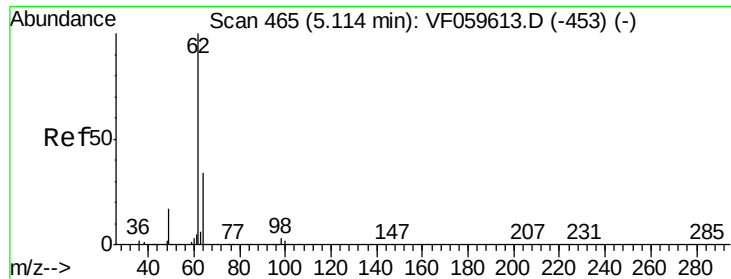
41 100

39 86.9 58.2 87.4

67 61.9 51.0 76.6

52 51.4 80.1 120.1#





#42

1,2-Dichloroethane

Concen: 45.36 ug/l

RT: 5.11 min Scan# 464

Delta R.T. -0.01 min

Lab File: VF059630.D

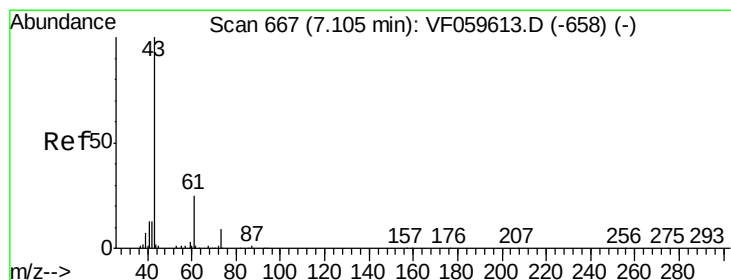
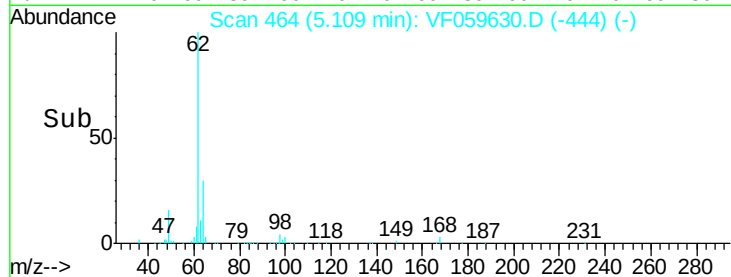
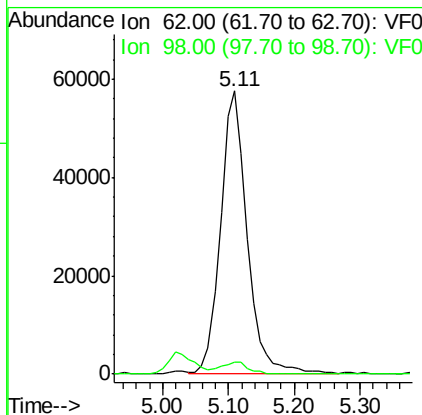
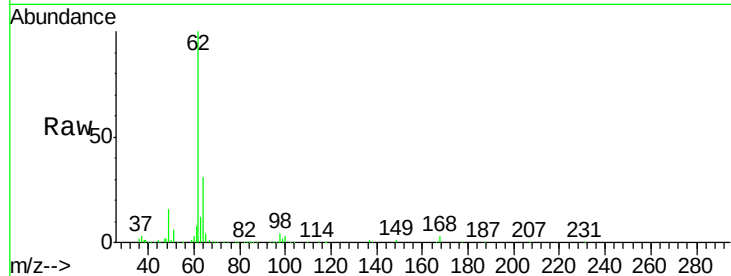
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion:	62	Resp:	160910
Ion Ratio	Lower	Upper	
62	100		
98	4.2	0.0	8.4

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#43

Isopropyl Acetate

Concen: 1.09 ug/l

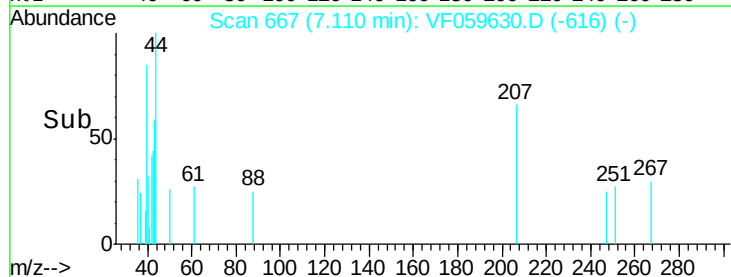
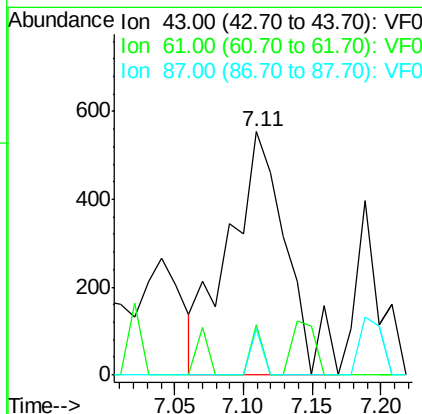
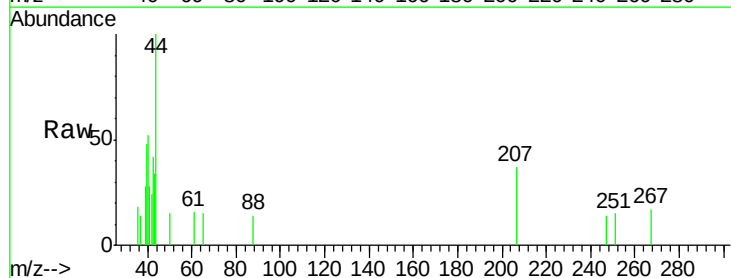
RT: 7.11 min Scan# 667

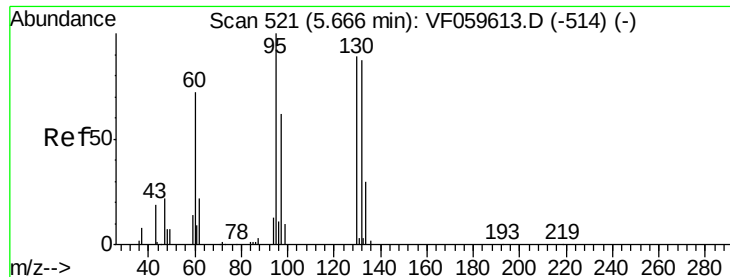
Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	43	Resp:	1616
Ion Ratio	Lower	Upper	
43	100		
61	20.6	20.1	30.1
87	19.0	0.5	0.7#





#44

Trichloroethene

Concen: 43.46 ug/l

RT: 5.66 min Scan# 520

Delta R.T. -0.01 min

Lab File: VF059630.D

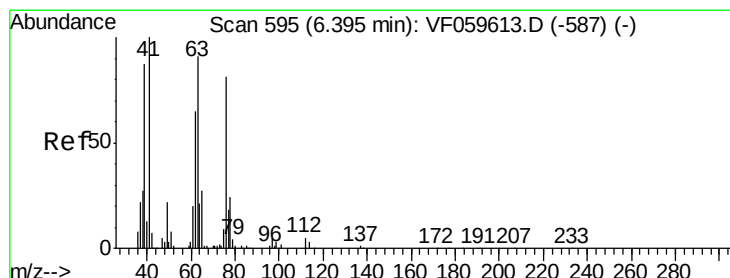
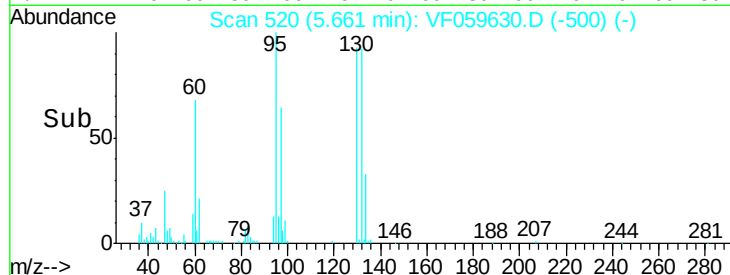
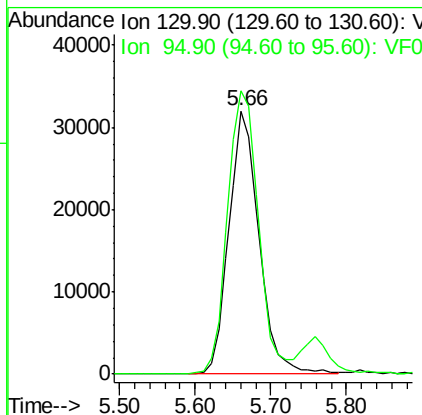
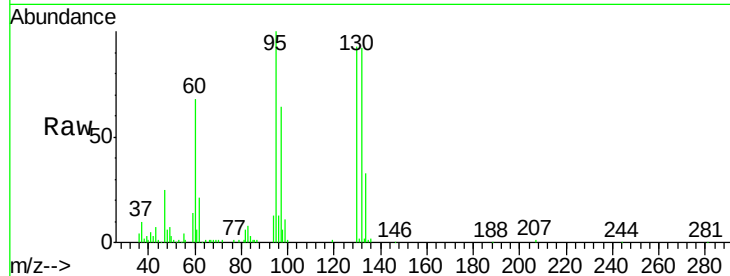
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
130	100		
95	107.5	0.0	226.4

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#45

1,2-Dichloropropane

Concen: 46.16 ug/l

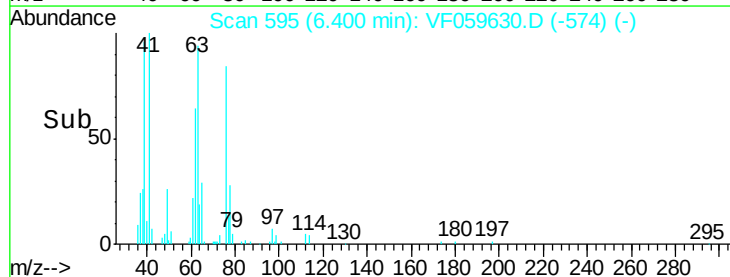
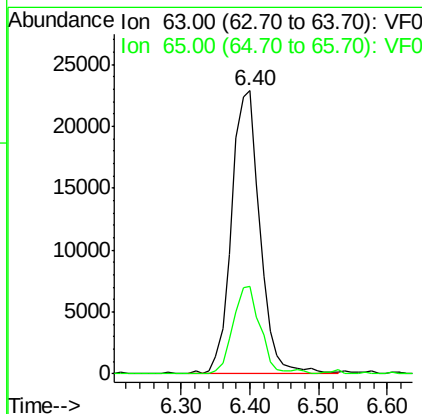
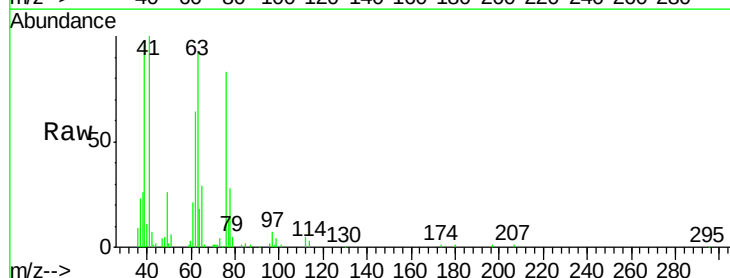
RT: 6.40 min Scan# 595

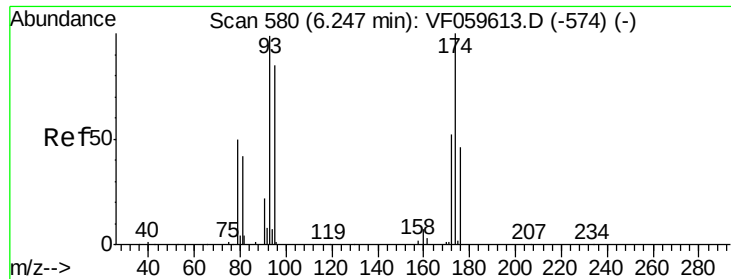
Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.1	23.4	35.0





#46

Dibromomethane

Concen: 48.17 ug/l

RT: 6.24 min Scan# 579

Delta R.T. -0.01 min

Lab File: VF059630.D

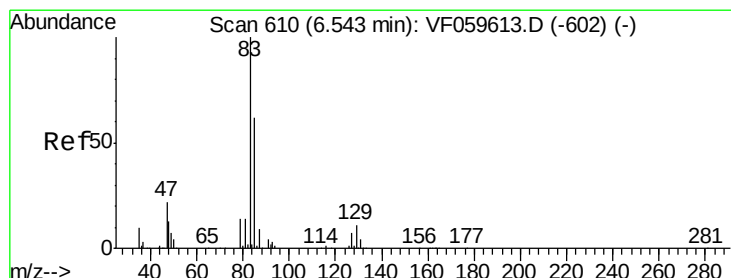
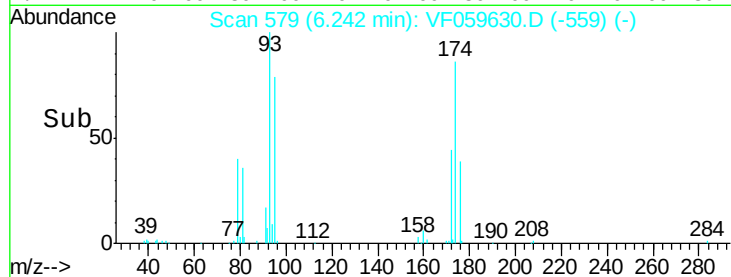
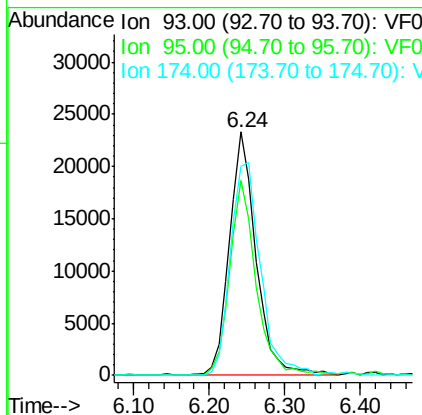
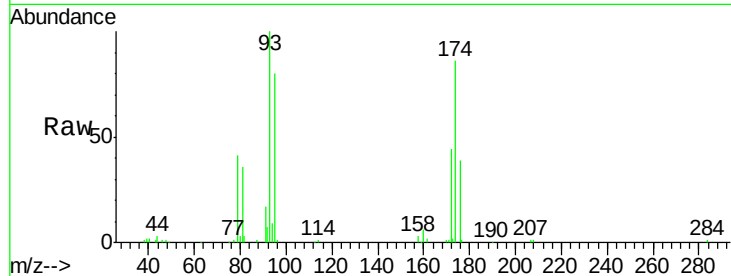
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion:	93	Resp:	56764
Ion	Ratio	Lower	Upper
93	100		
95	79.9	68.6	102.8
174	86.0	80.8	121.2

Manual Integrations
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#47

Bromodichloromethane

Concen: 35.79 ug/l

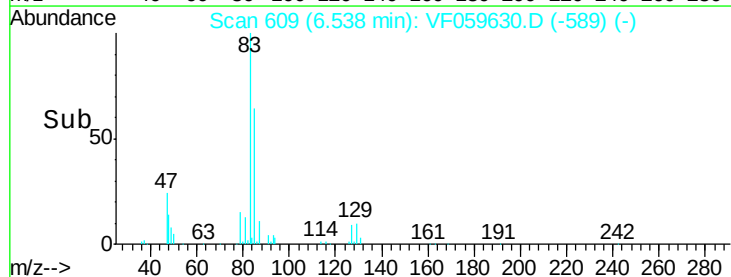
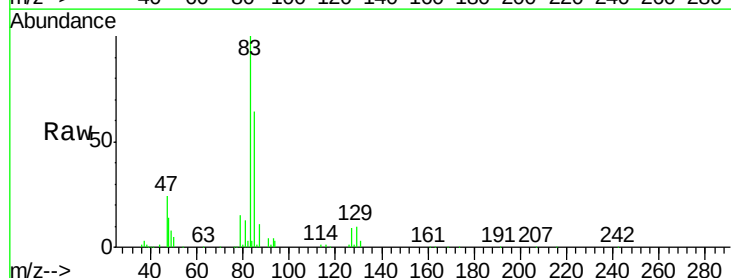
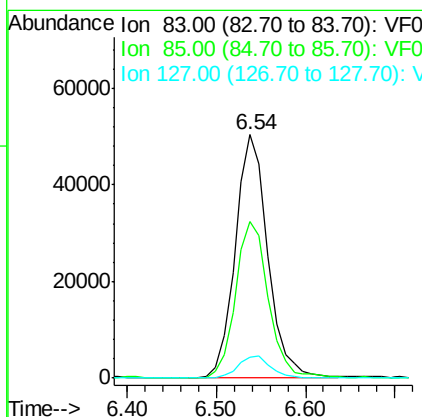
RT: 6.54 min Scan# 609

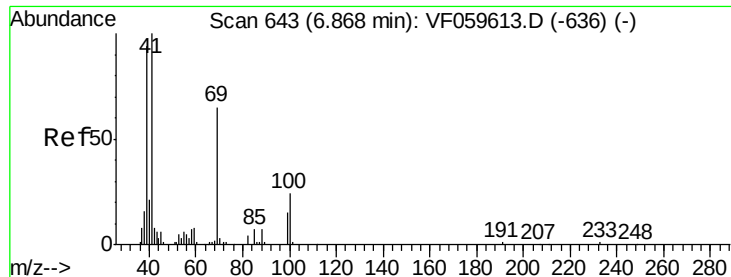
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	83	Resp:	127980
Ion	Ratio	Lower	Upper
83	100		
85	64.1	49.4	74.0
127	8.7	5.9	8.9





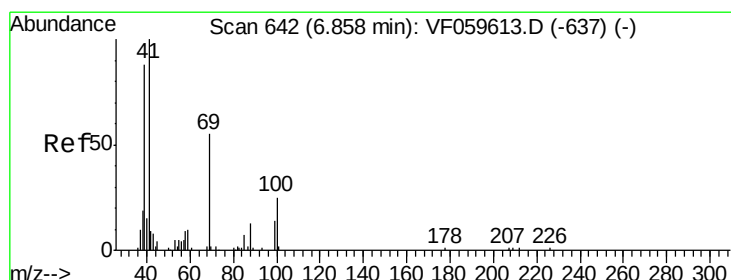
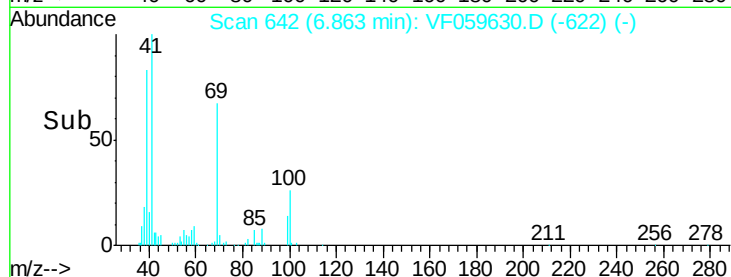
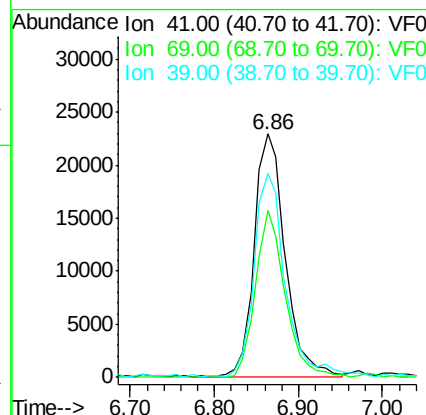
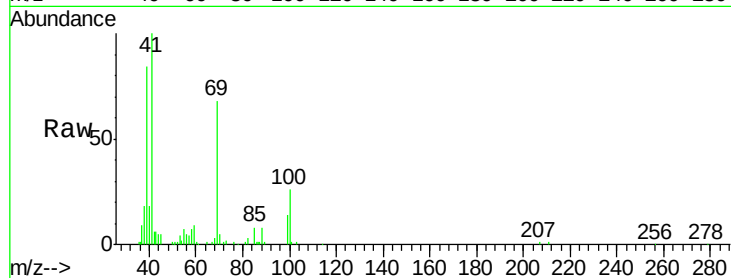
#48
Methvl methacrylate
Concen: 54.12 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
41	100		
69	68.4	51.6	77.4
39	83.9	76.3	114.5

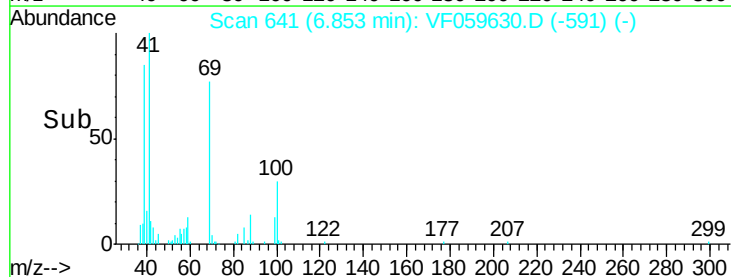
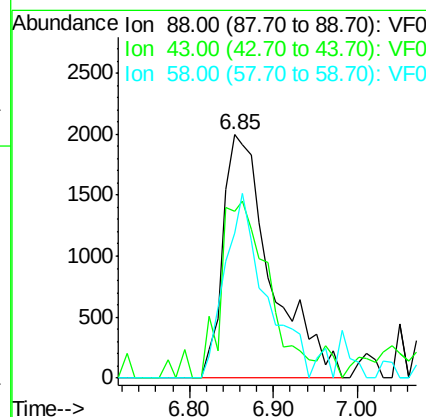
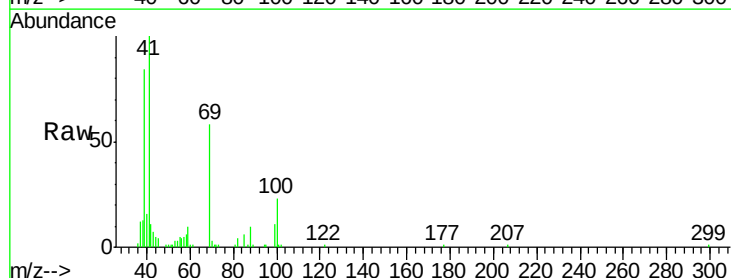
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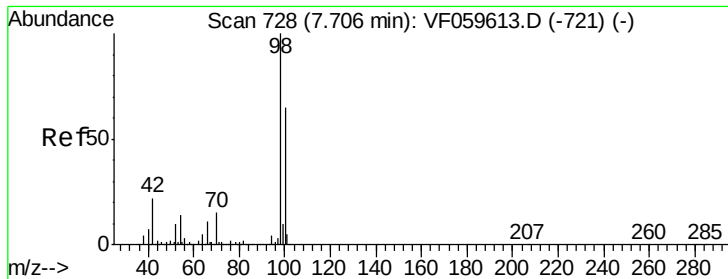
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#49
1,4-Dioxane
Concen: 1157.04 ug/l
RT: 6.85 min Scan# 641
Delta R.T. -0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
88	100		
43	68.3	54.2	81.4
58	59.8	54.3	81.5





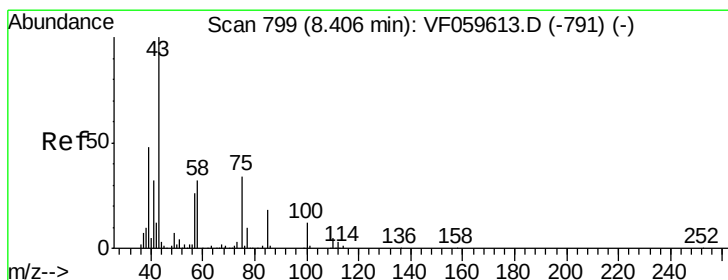
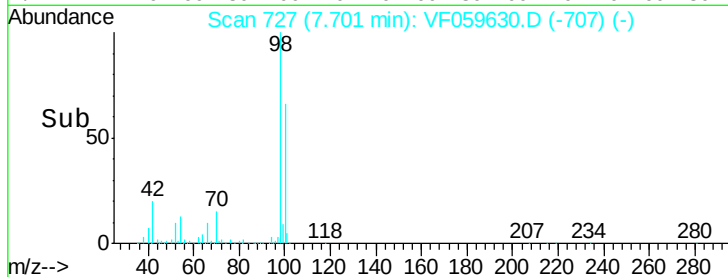
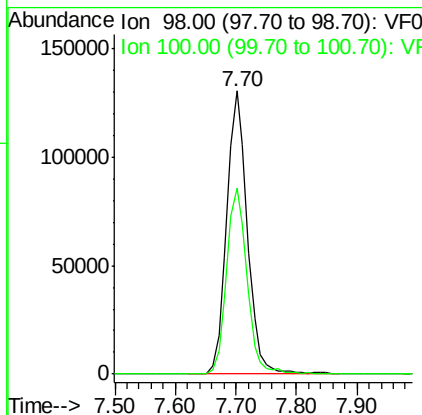
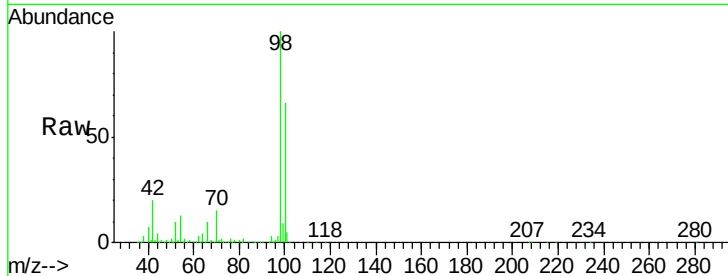
#50
Toluene-d8
Concen: 47.24 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.6	77.4

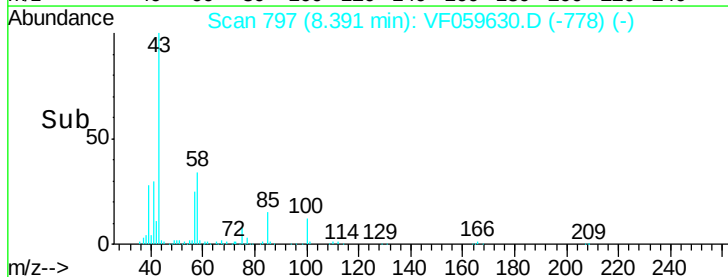
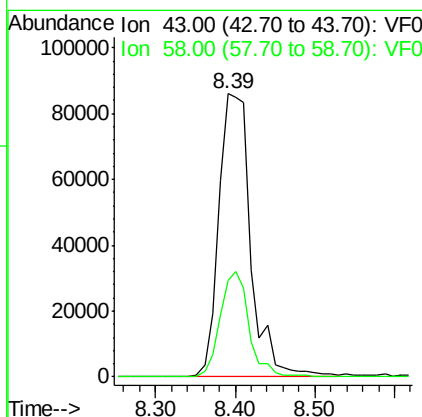
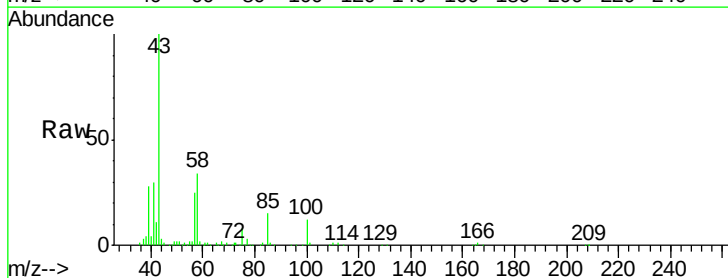
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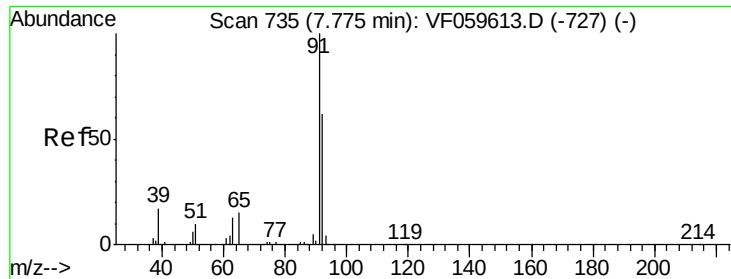
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#51
4-Methyl-2-Pentanone
Concen: 226.95 ug/l
RT: 8.39 min Scan# 797
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.0	25.8	38.6





#52

Toluene

Concen: 40.58 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion: 92 Resp: 162342

Ion Ratio Lower Upper

92 100

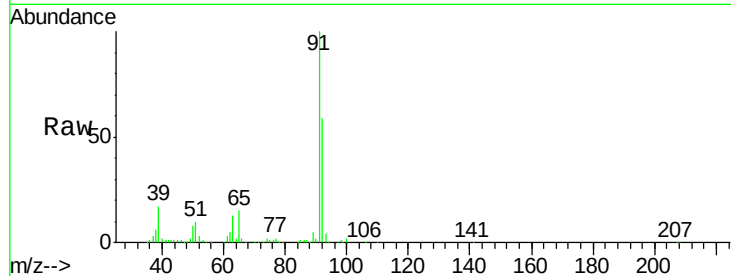
91 170.5 129.8 194.8

Manual Integrations

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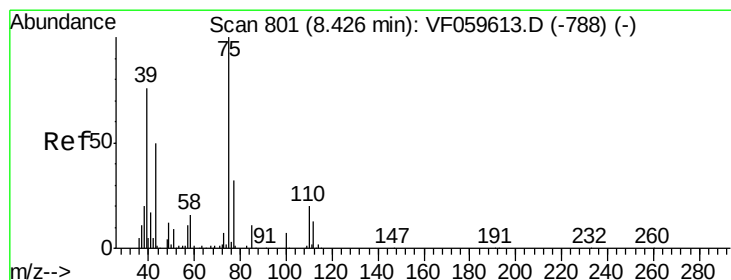
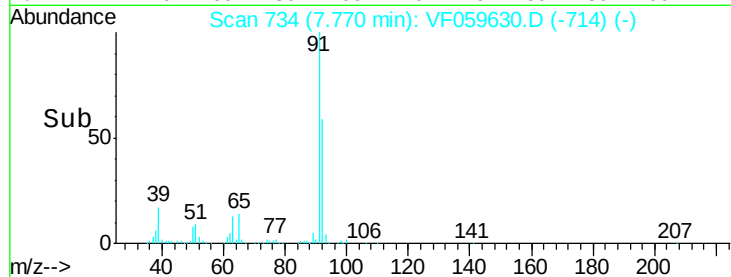
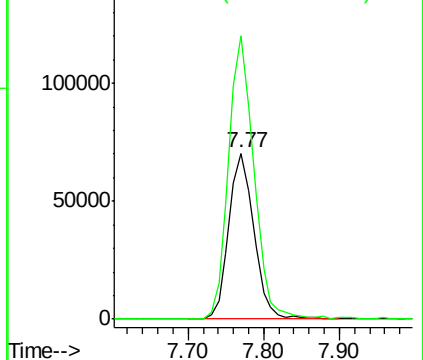
apatel

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Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#53

t-1,3-Dichloropropene

Concen: 31.84 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF059630.D

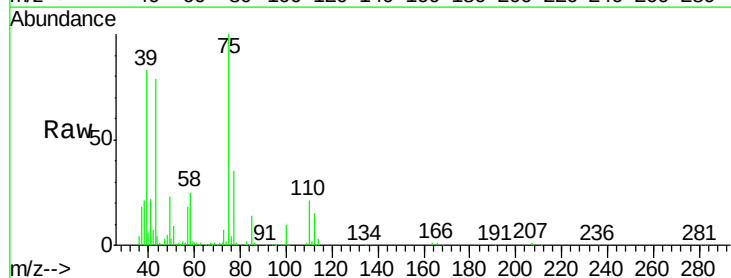
Acq: 23 Jul 2018 22:45

Tgt Ion: 75 Resp: 96270

Ion Ratio Lower Upper

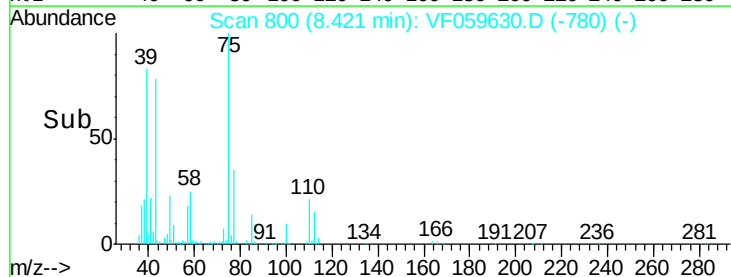
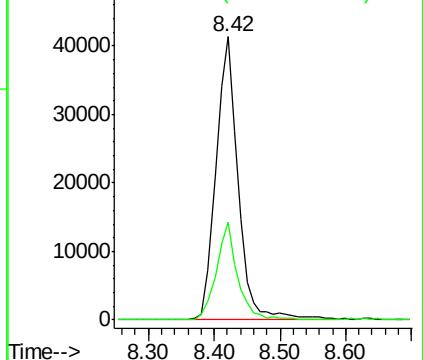
75 100

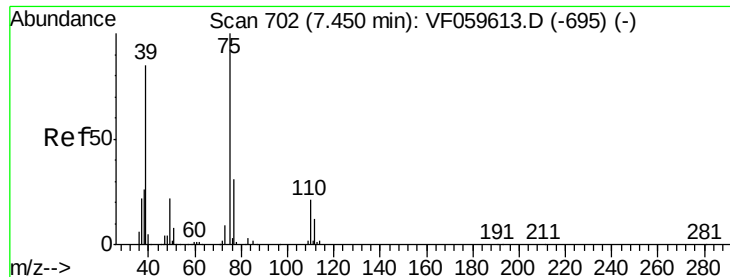
77 34.6 25.6 38.4



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: 33.15 ug/l

RT: 7.44 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

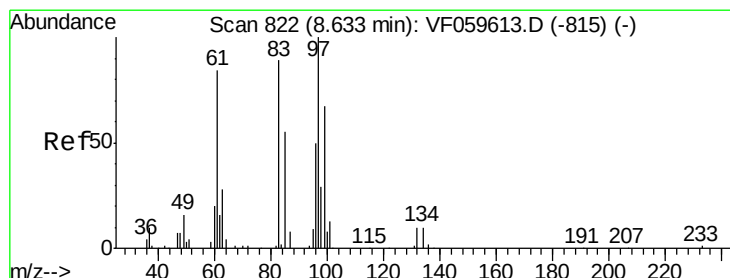
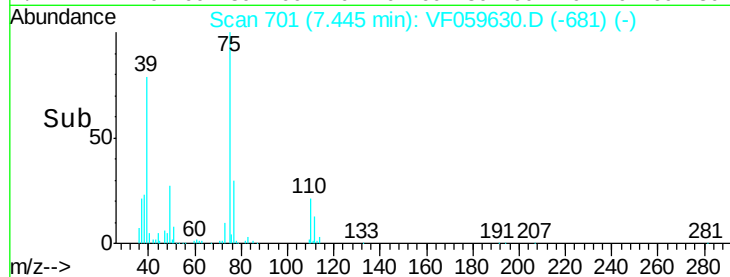
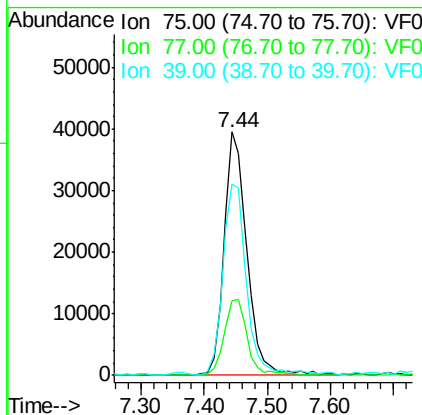
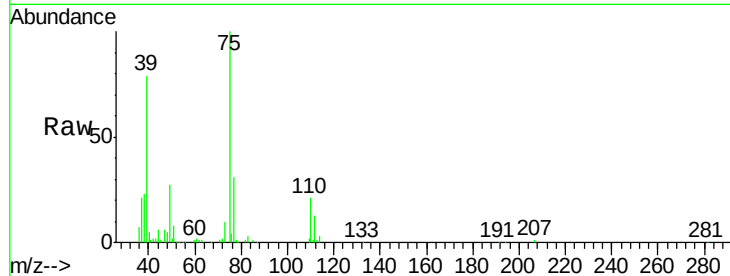
ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:	75	Resp:	99356
Ion Ratio	Lower	Upper	
75	100		
77	30.7	24.6	37.0
39	78.7	67.8	101.6

Manual Integrations
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#55

1,1,2-Trichloroethane

Concen: 40.44 ug/l

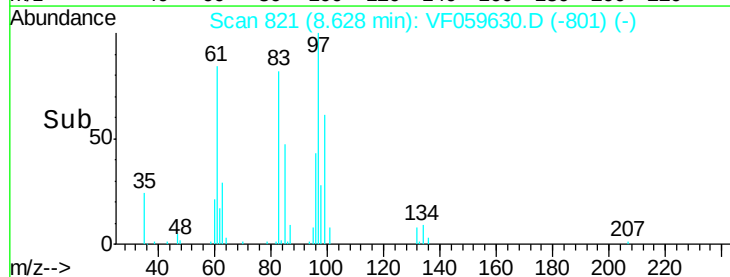
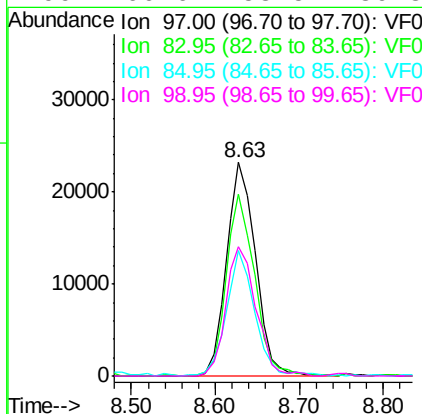
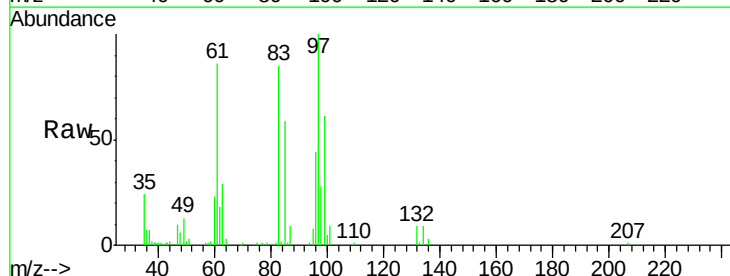
RT: 8.63 min Scan# 821

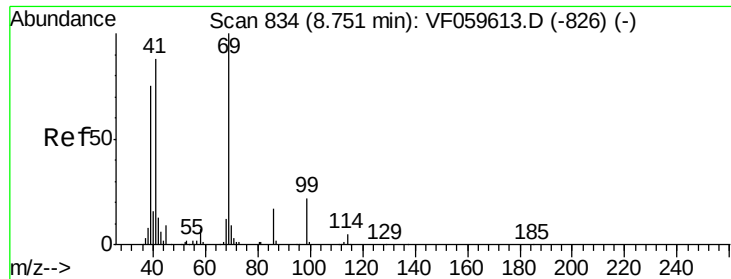
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	97	Resp:	55363
Ion Ratio	Lower	Upper	
97	100		
83	85.0	71.8	107.6
85	58.8	43.9	65.9
99	60.6	53.5	80.3





#56

Ethyl methacrylate

Concen: 1.31 ug/l

RT: 8.75 min Scan# 833

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

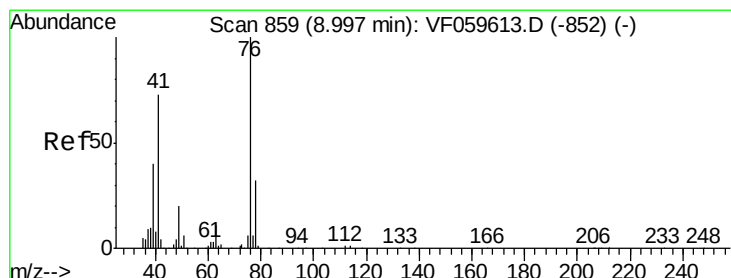
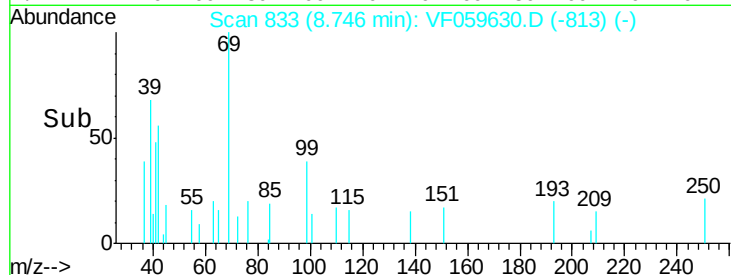
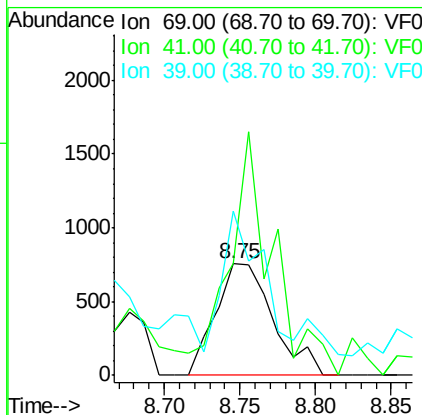
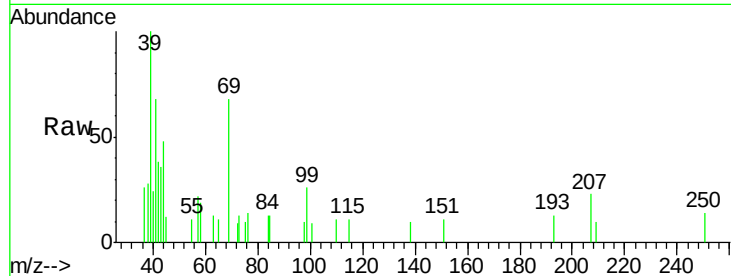
ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:	69	Resp:	1999
Ion	Ratio	Lower	Upper
69	100		
41	100.1	70.8	106.2
39	147.2	60.7	91.1#

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#57

1,3-Dichloropropane

Concen: 42.12 ug/l

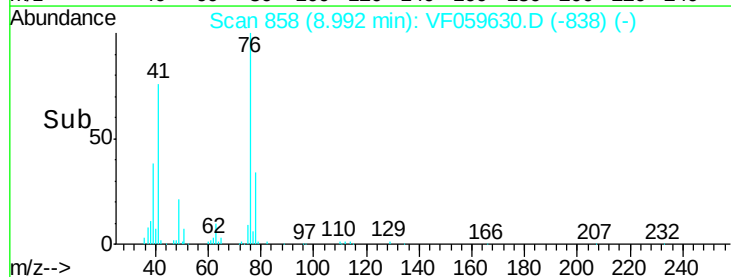
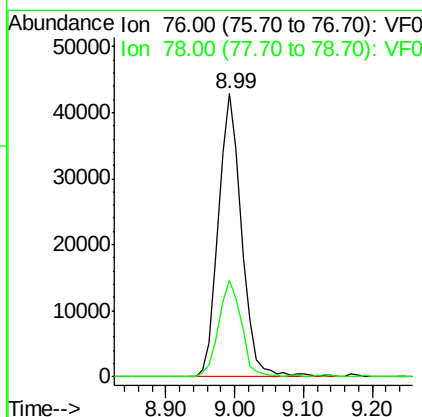
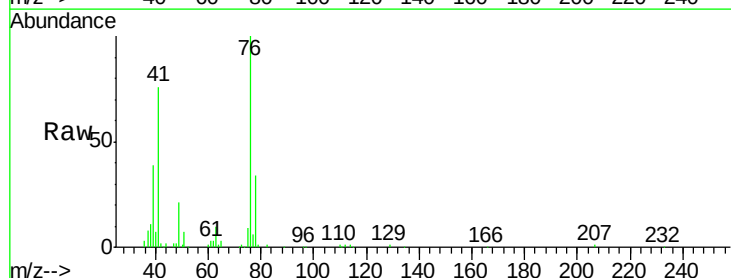
RT: 8.99 min Scan# 858

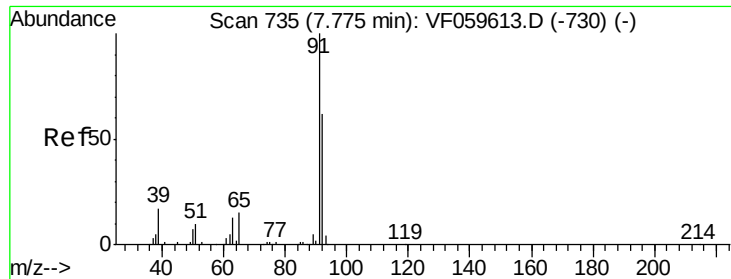
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	76	Resp:	100331
Ion	Ratio	Lower	Upper
76	100		
78	34.1	25.3	37.9





#58

2-Chloroethyl Vinyl ether

Concen: 203.02 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion: 63 Resp: 35795

Ion Ratio Lower Upper

63 100

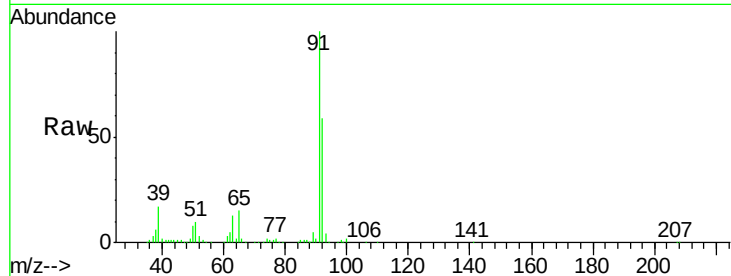
106 0.8 0.0 0.0#

Manual Integrations

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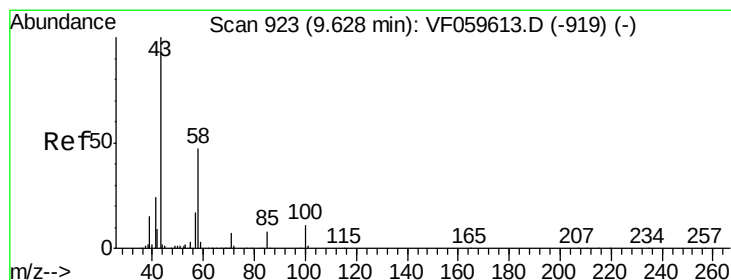
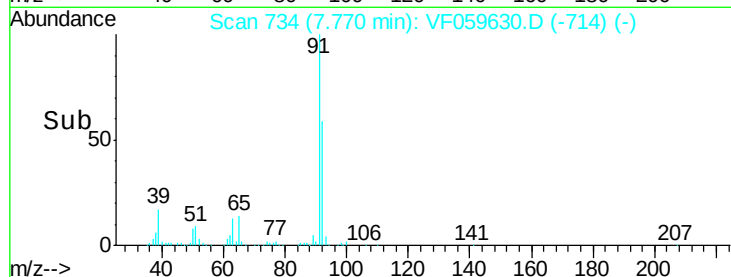
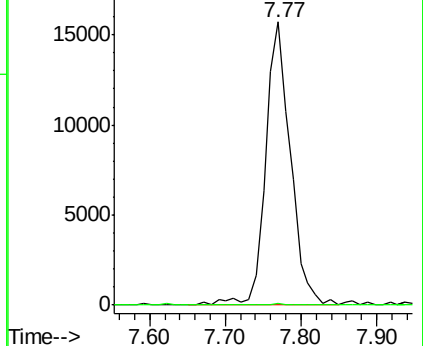
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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 151.12 ug/l

RT: 9.62 min Scan# 922

Delta R.T. -0.01 min

Lab File: VF059630.D

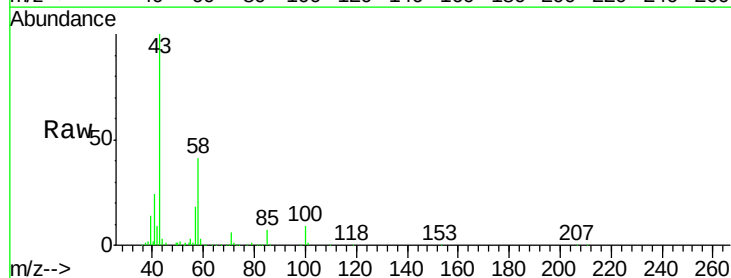
Acq: 23 Jul 2018 22:45

Tgt Ion: 43 Resp: 131982

Ion Ratio Lower Upper

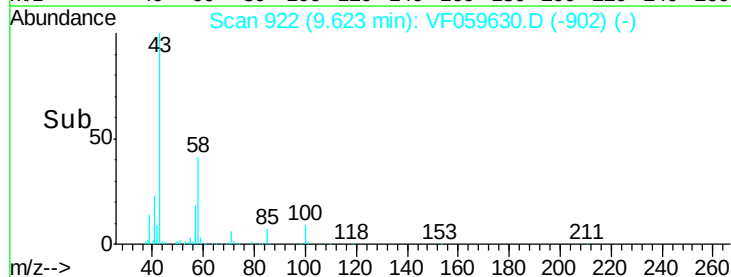
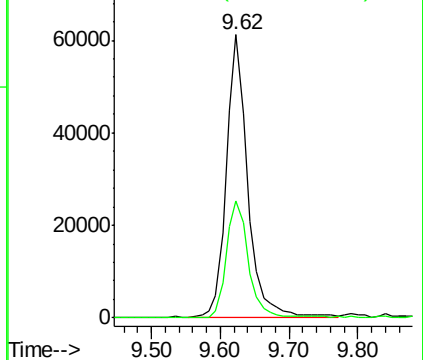
43 100

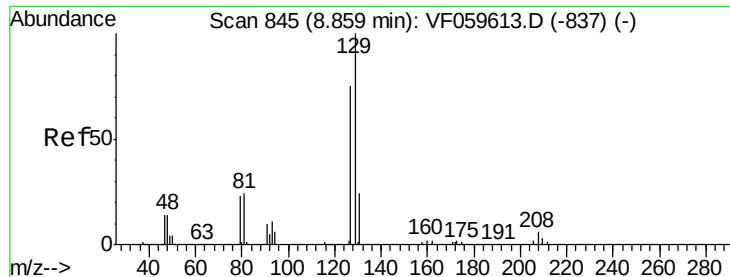
58 41.3 21.1 63.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





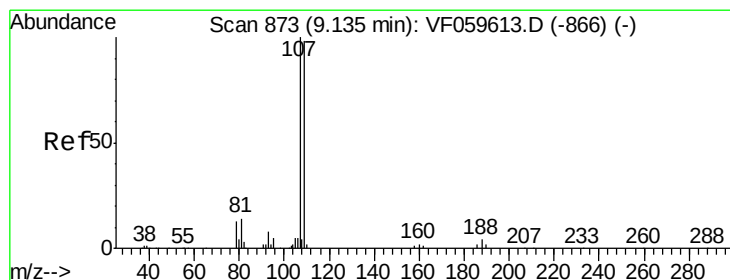
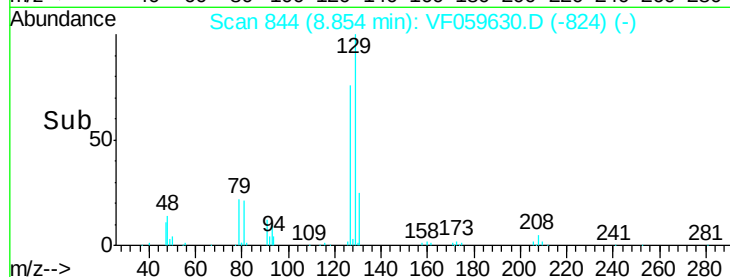
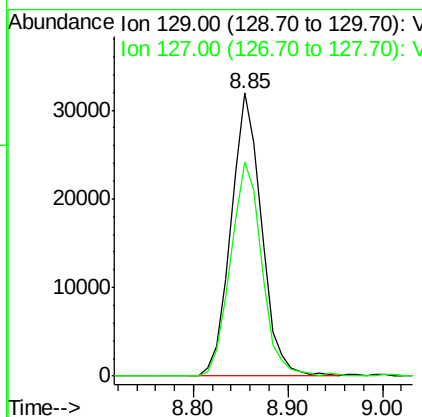
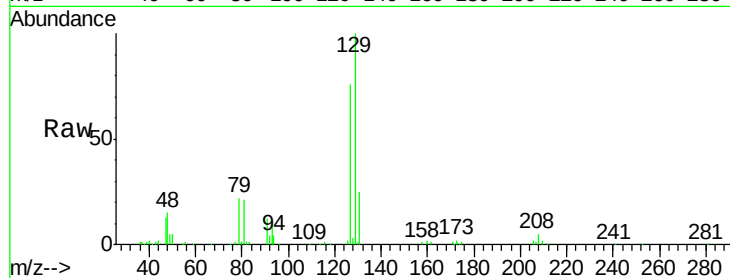
#60
Dibromochloromethane
Concen: 29.27 ug/l
RT: 8.85 min Scan# 844
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion:129 Resp: 71356
Ion Ratio Lower Upper
129 100
127 75.9 37.5 112.7

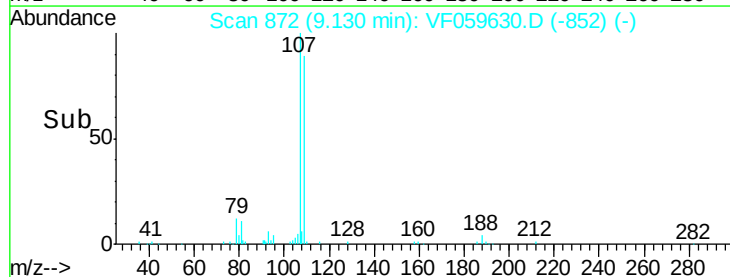
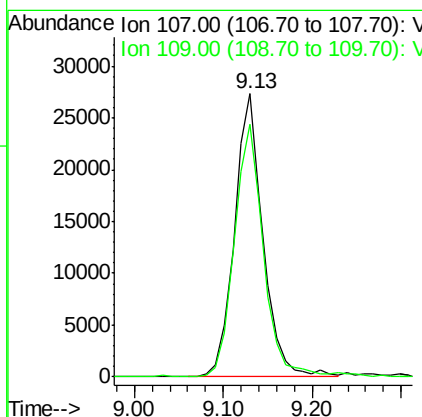
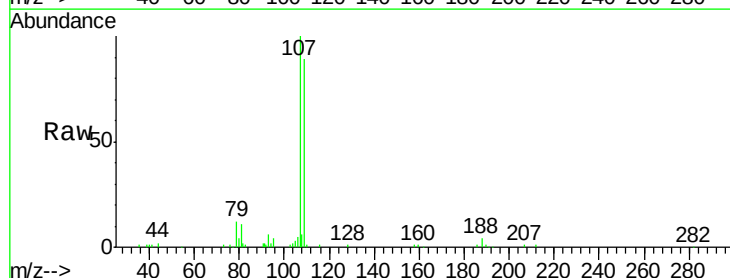
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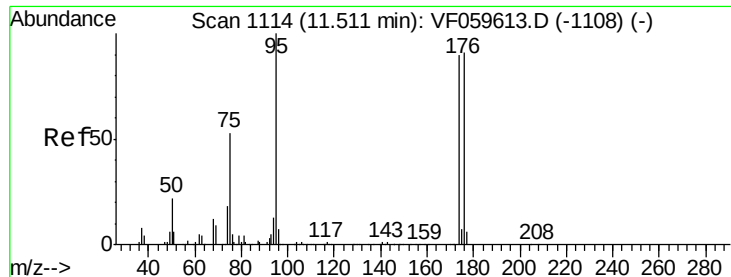
apatel
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#61
1,2-Dibromoethane
Concen: 38.77 ug/l
RT: 9.13 min Scan# 872
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion:107 Resp: 60833
Ion Ratio Lower Upper
107 100
109 89.3 78.2 117.4





#62

4-Bromofluorobenzene

Concen: 27.76 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059630.D

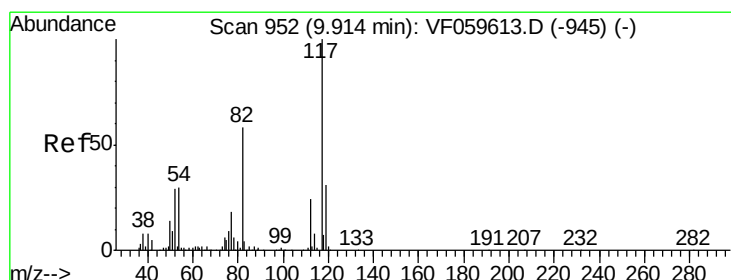
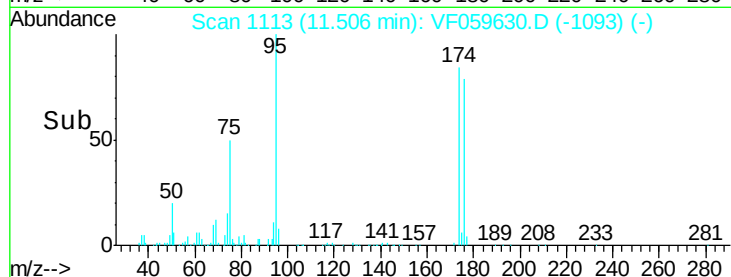
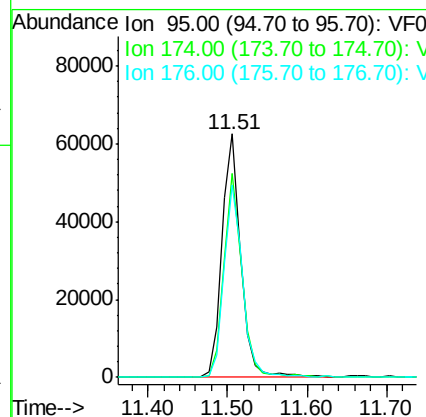
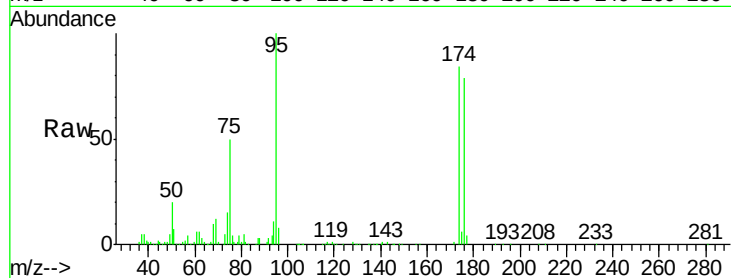
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion:	95	Resp:	105107
Ion Ratio	Lower	Upper	
95	100		
174	84.0	0.0	180.6
176	79.3	0.0	182.4

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#63

Chlorobenzene-d5

Concen: 50.00 ug/l

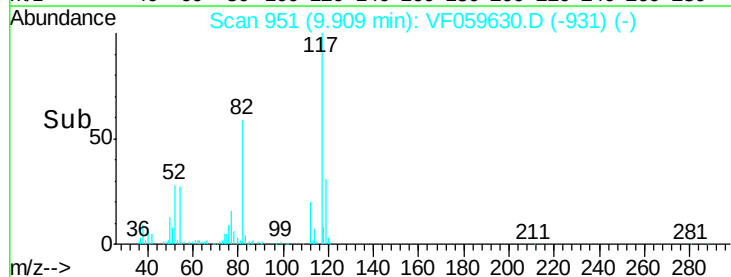
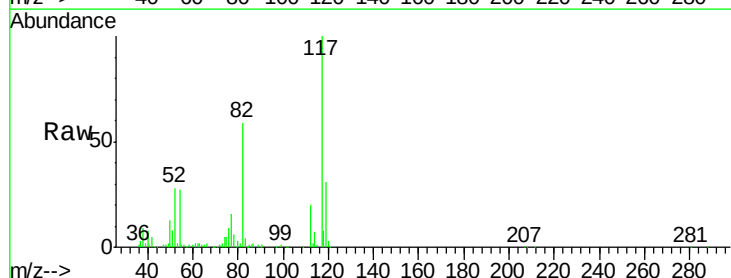
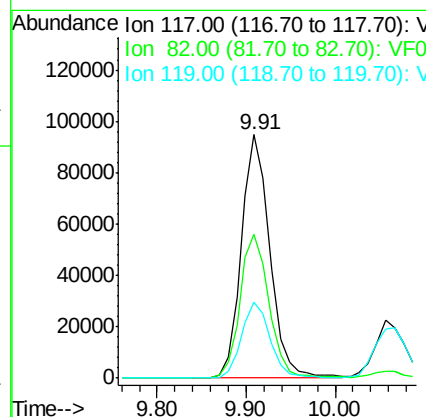
RT: 9.91 min Scan# 951

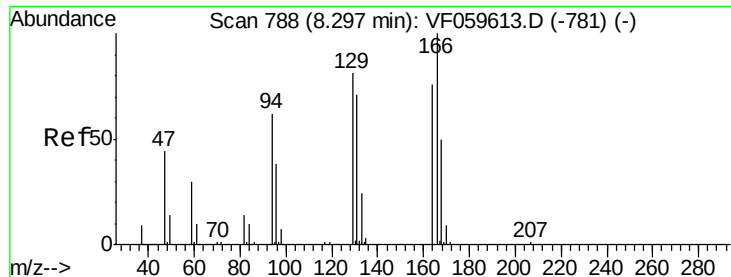
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	117	Resp:	210882
Ion Ratio	Lower	Upper	
117	100		
82	59.3	46.5	69.7
119	31.4	24.4	36.6





#64

Tetrachloroethene

Concen: 48.01 ug/l

RT: 8.29 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF059630.D

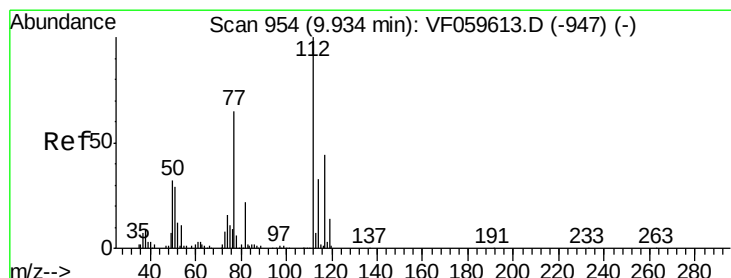
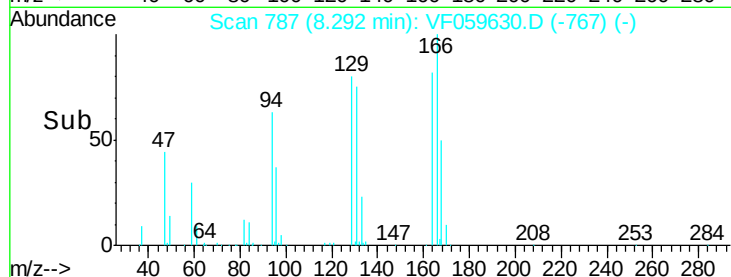
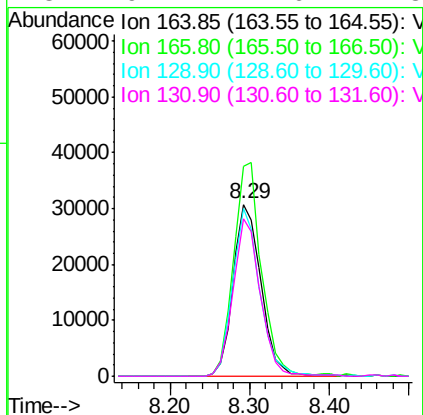
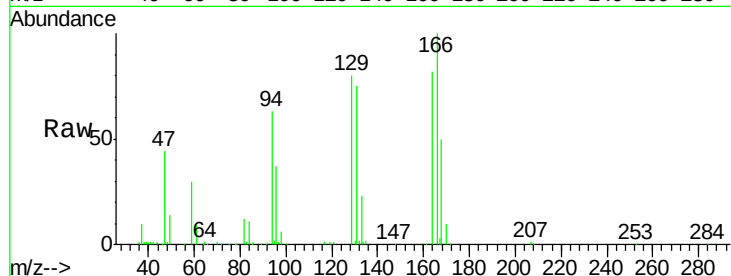
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	164	Resp	75191
Ion	Ratio	Lower	Upper
164	100		
166	122.1	104.8	157.2
129	97.5	85.3	127.9
131	91.7	74.6	111.8

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#65

Chlorobenzene

Concen: 44.84 ug/l

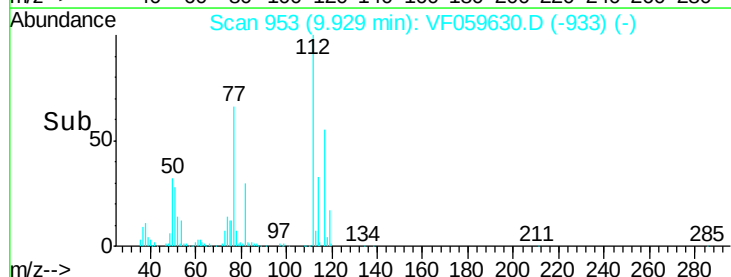
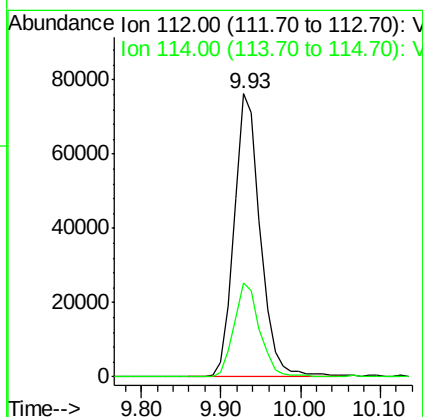
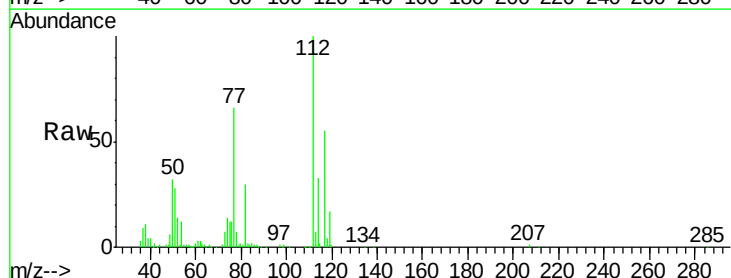
RT: 9.93 min Scan# 953

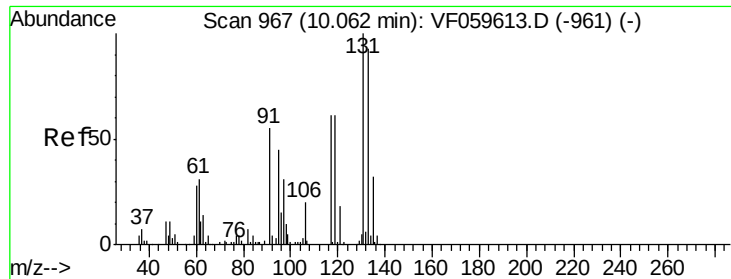
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion	112	Resp	174370
Ion	Ratio	Lower	Upper
112	100		
114	33.2	26.8	40.2





#66

1,1,1,2-Tetrachloroethane

Concen: 45.83 ug/l

RT: 10.06 min Scan# 966

Delta R.T. -0.01 min

Lab File: VF059630.D

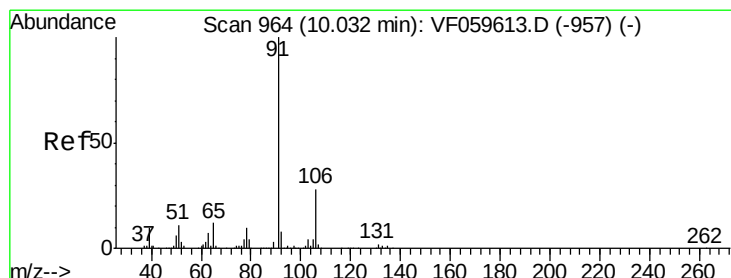
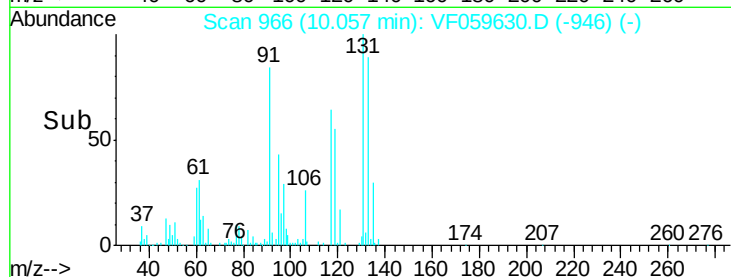
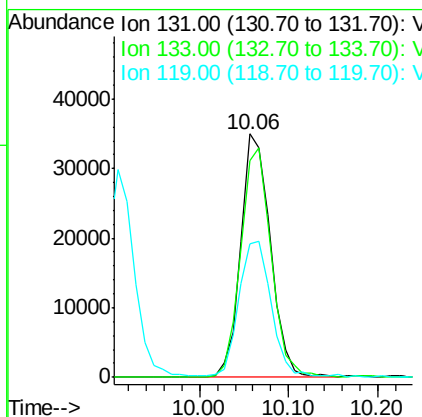
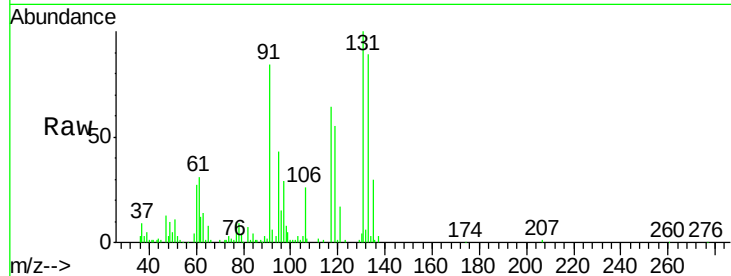
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
131	100		
133	89.2	46.4	139.2
119	54.8	30.6	91.8

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#67

Ethyl Benzene

Concen: 45.75 ug/l

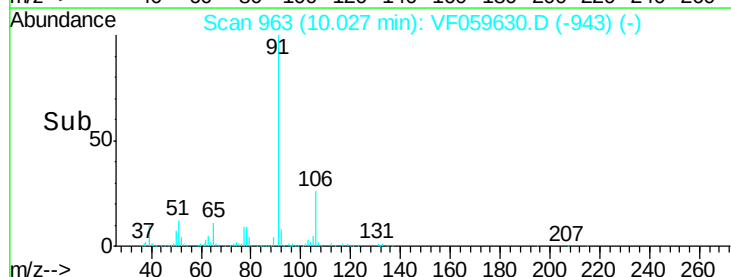
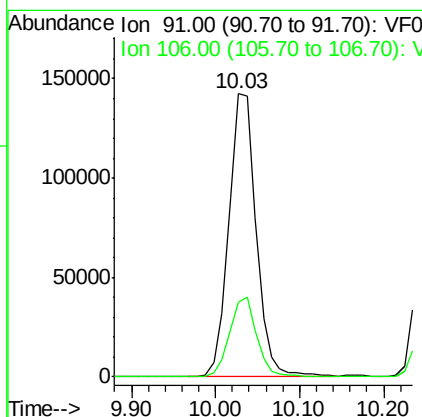
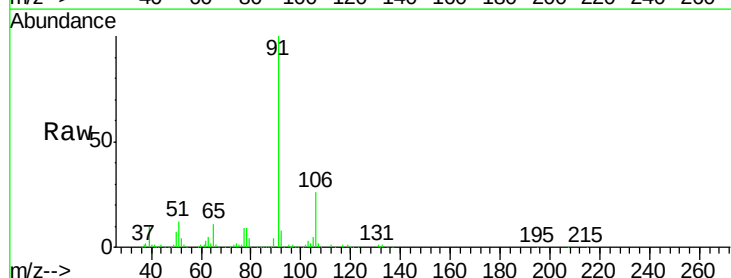
RT: 10.03 min Scan# 963

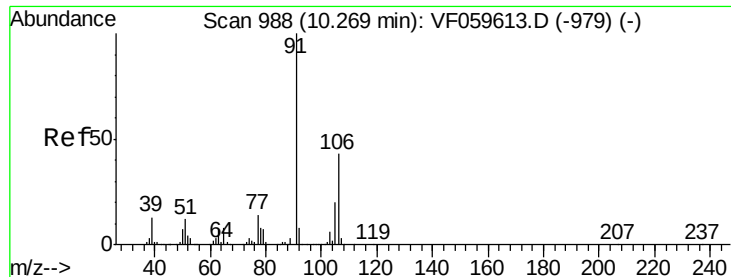
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.3	22.5	33.7





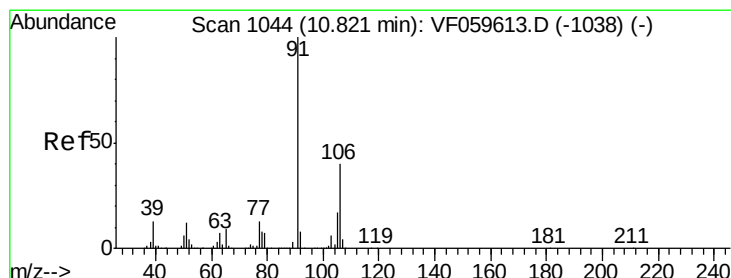
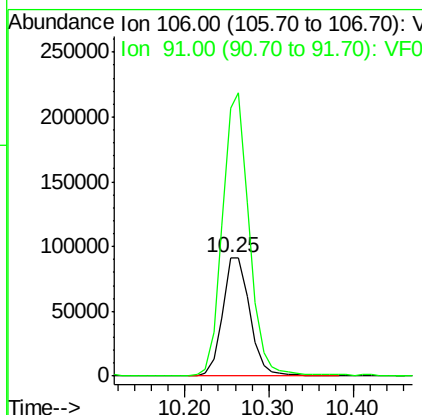
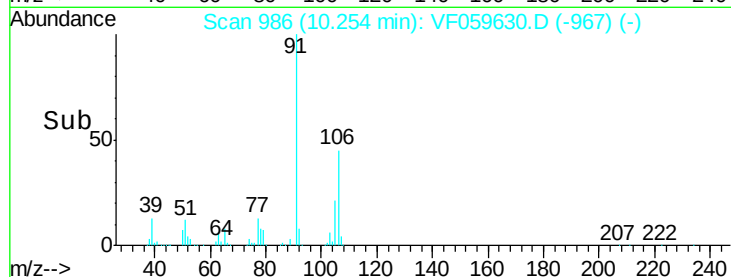
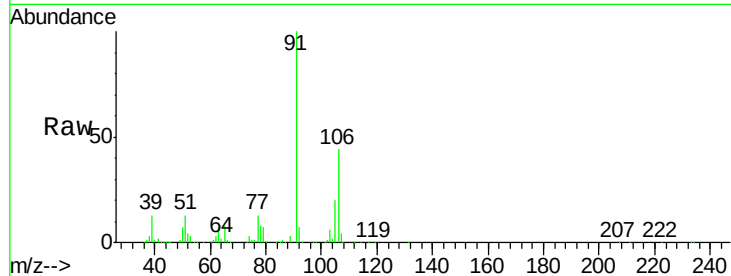
#68
m/p-Xylenes
Concen: 86.14 ug/l
RT: 10.25 min Scan# 986
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion:106 Resp: 206996
Ion Ratio Lower Upper
106 100
91 226.8 187.0 280.4

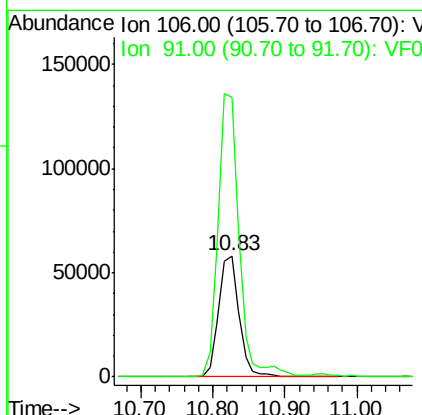
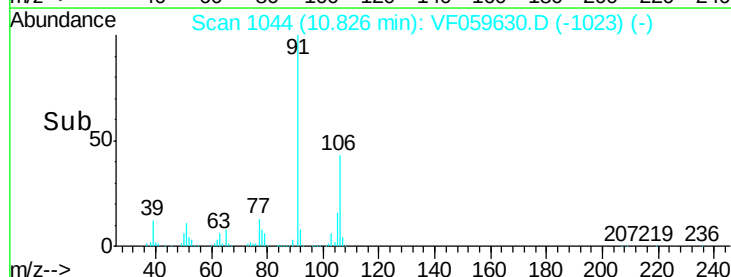
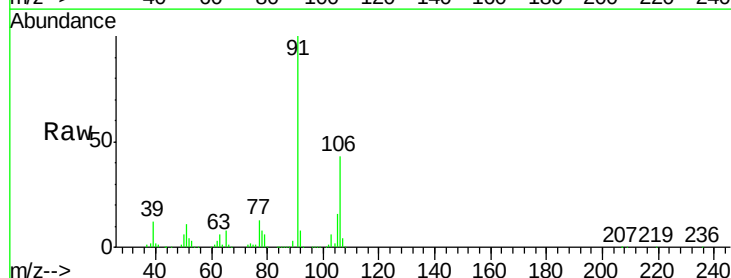
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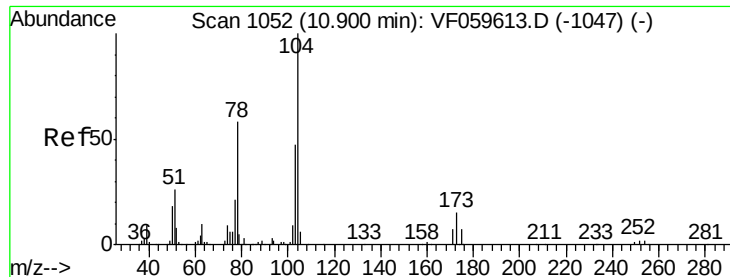
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#69
o-Xylene
Concen: 43.83 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion:106 Resp: 114381
Ion Ratio Lower Upper
106 100
91 230.7 125.8 377.3





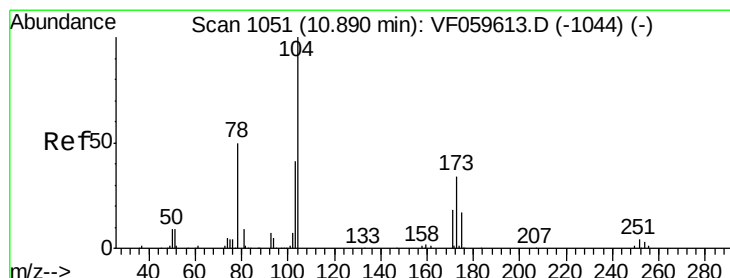
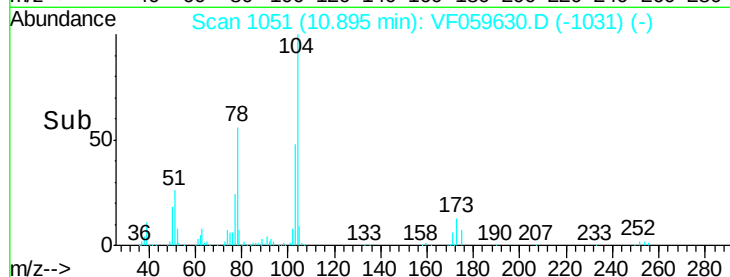
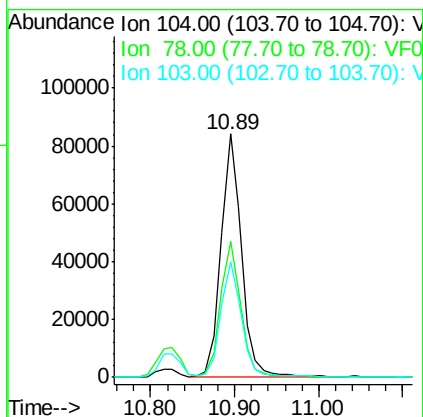
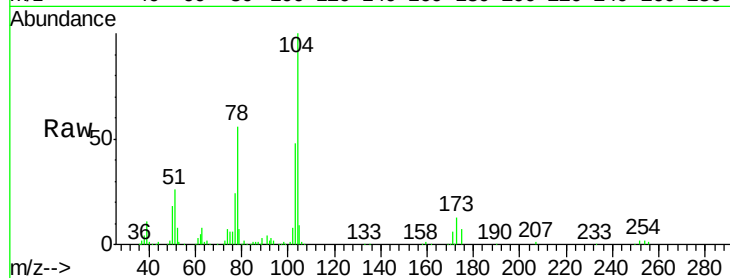
#70
Stvrene
Concen: 36.16 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.0	47.4	71.2
103	47.7	38.8	58.2

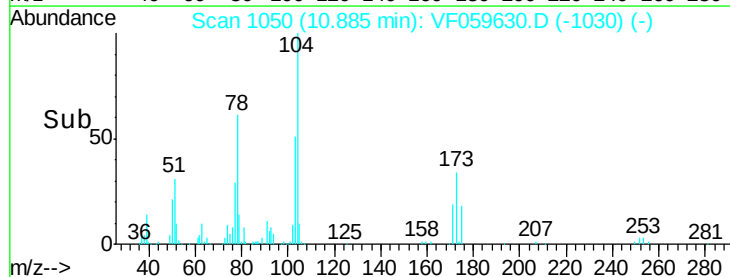
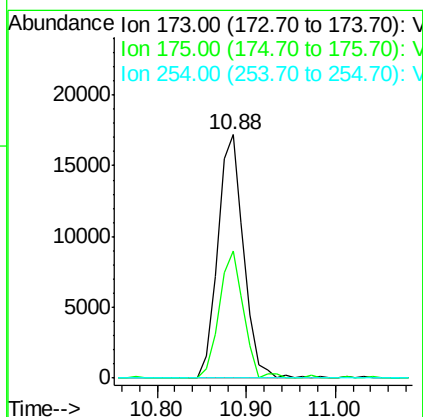
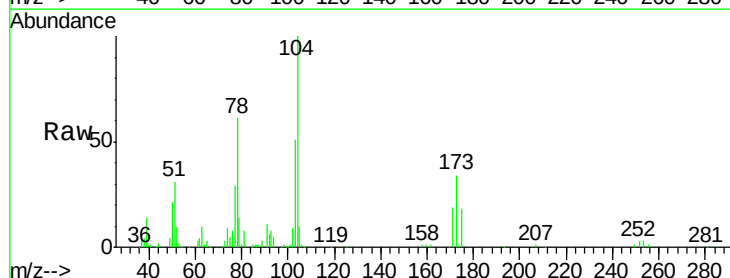
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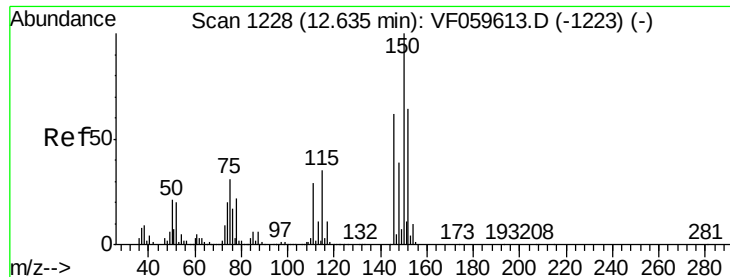
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#71
Bromoform
Concen: 31.91 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.8	25.1	75.2
254	0.0	0.0	0.0





#72

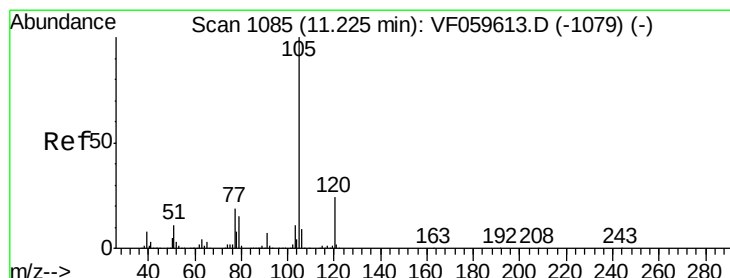
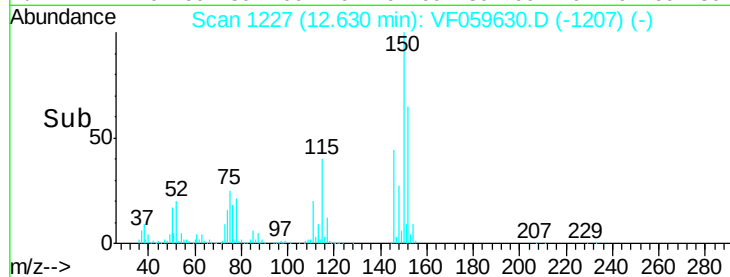
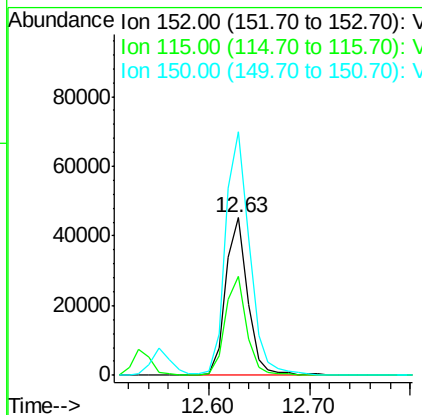
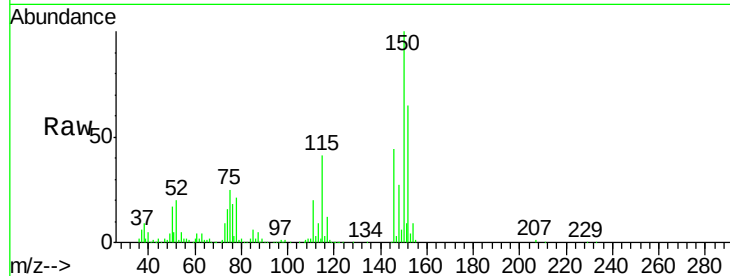
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
152	100		
115	62.6	27.8	83.4
150	154.5	0.0	314.6

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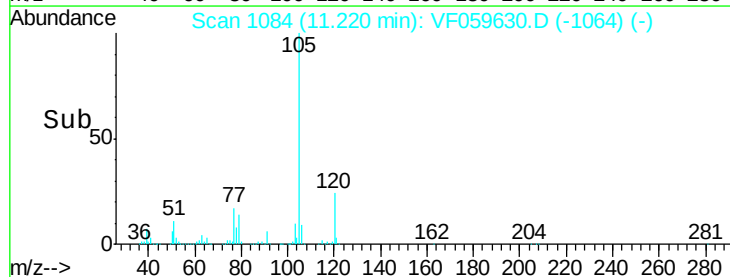
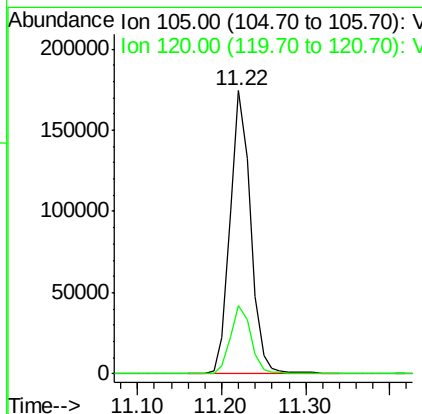
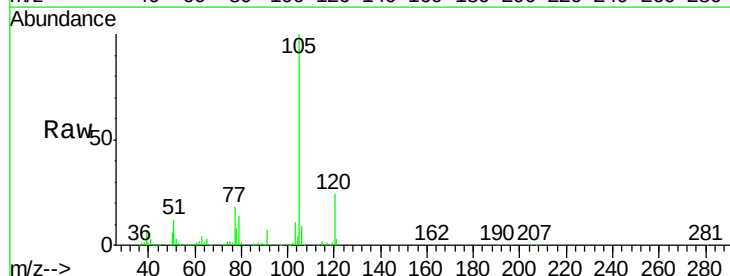
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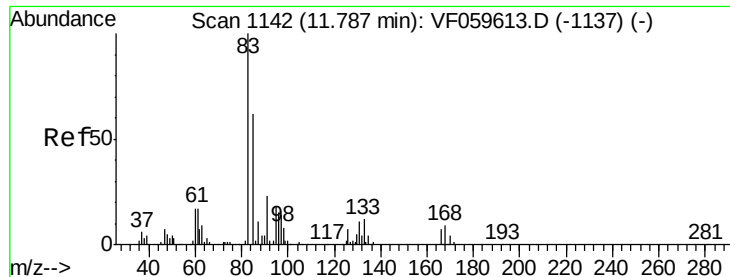


#73

Isopropylbenzene
Concen: 67.88 ug/l
RT: 11.22 min Scan# 1084
Delta R.T. -0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.1	11.8	35.4





#75

1,1,2,2-Tetrachloroethane

Concen: 80.42 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

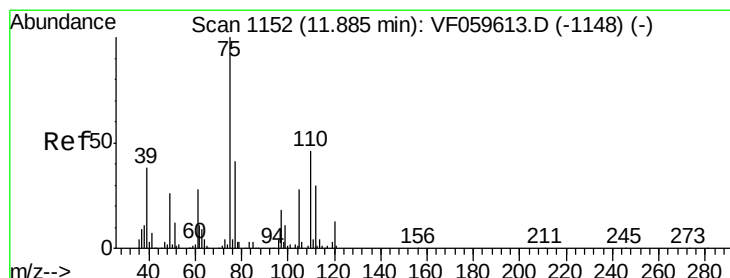
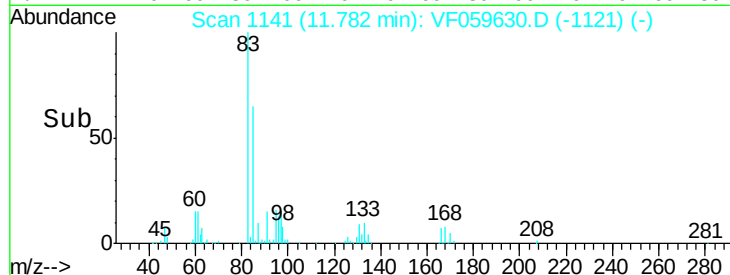
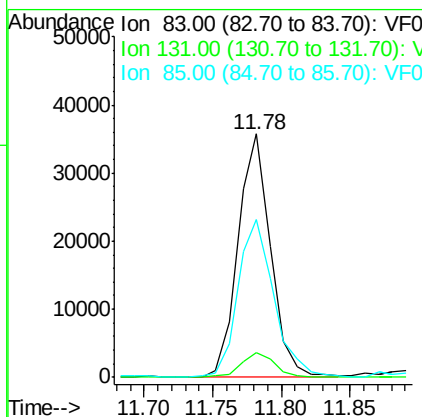
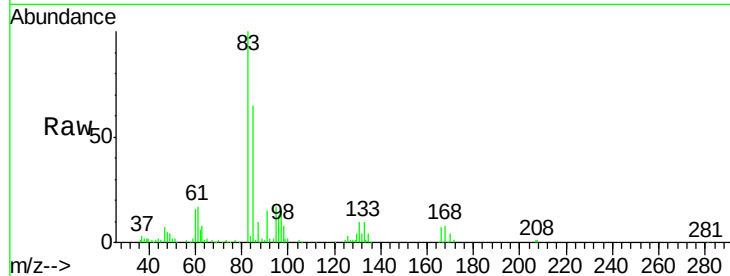
GL-TOPSOIL-09MS

Tot Ion	83	Resp	59091
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.7	17.0
85	64.9	31.1	93.3

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#76

1,2,3-Trichloropropane

Concen: 81.21 ug/l

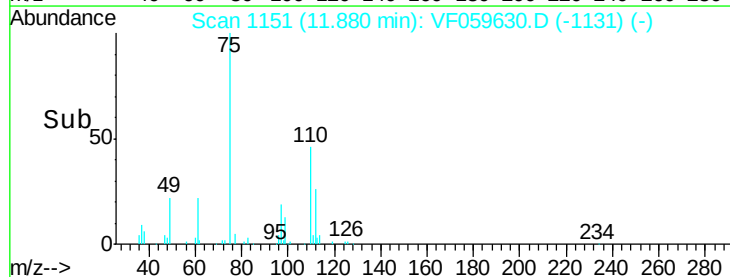
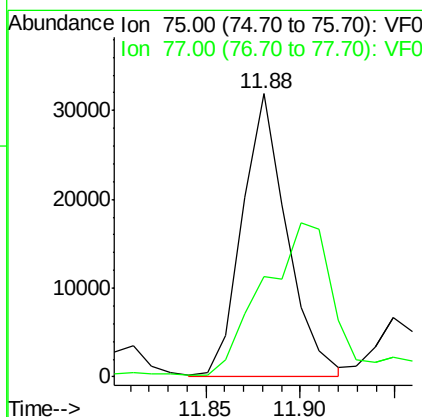
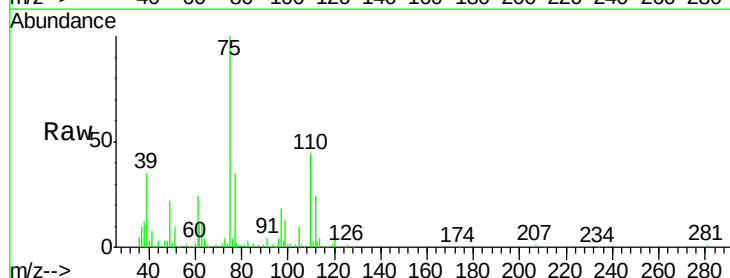
RT: 11.88 min Scan# 1151

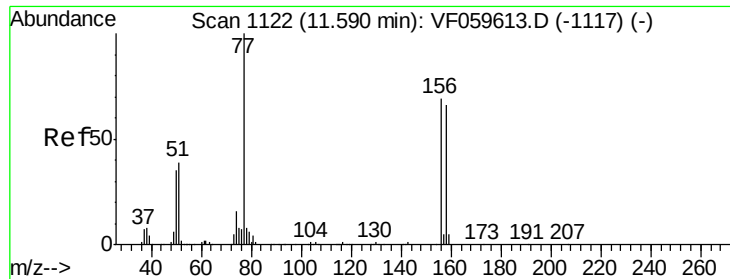
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion	75	Resp	52129
Ion Ratio	Lower	Upper	
75	100		
77	35.4	20.9	62.8





#77

Bromobenzene

Concen: 62.57 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VF059630.D

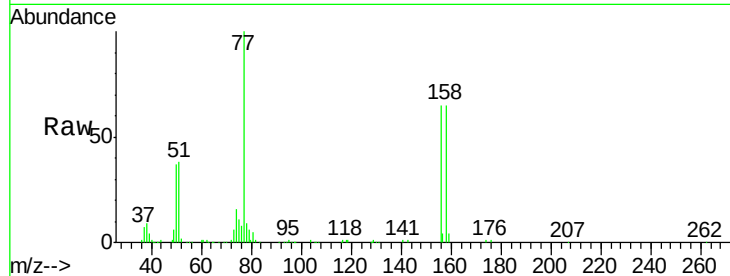
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

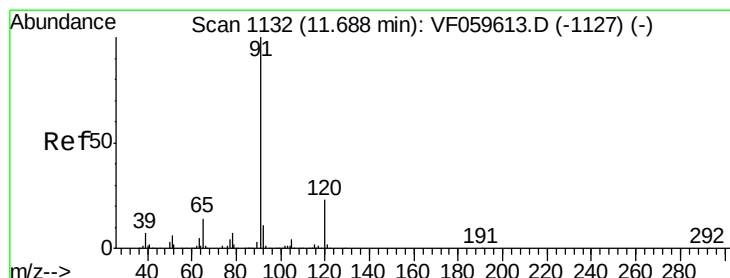
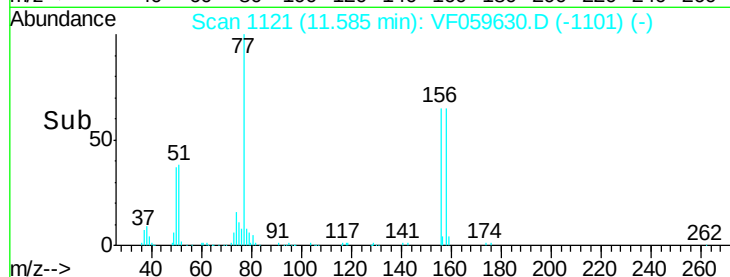
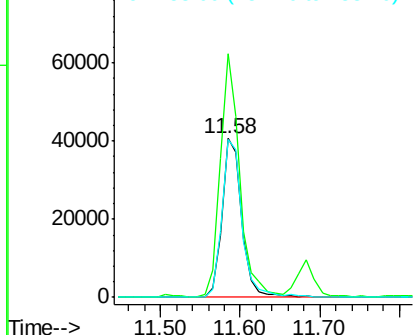
Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		70958		
77	153.6	72.1	216.3		
158	99.9	47.3	141.9		

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Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): VF0
Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 57.43 ug/l

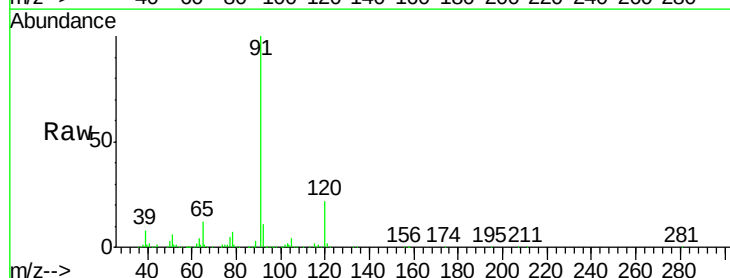
RT: 11.68 min Scan# 1131

Delta R.T. -0.00 min

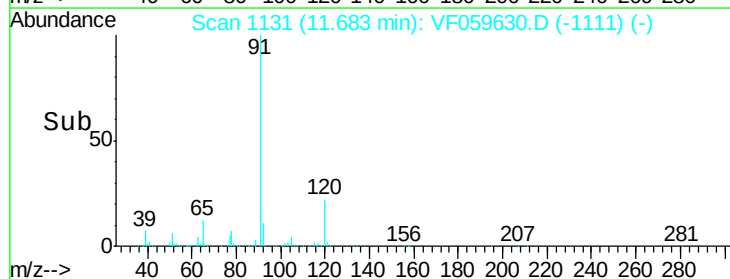
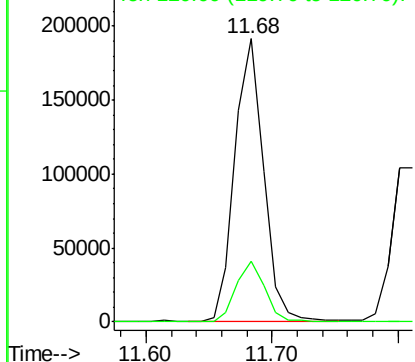
Lab File: VF059630.D

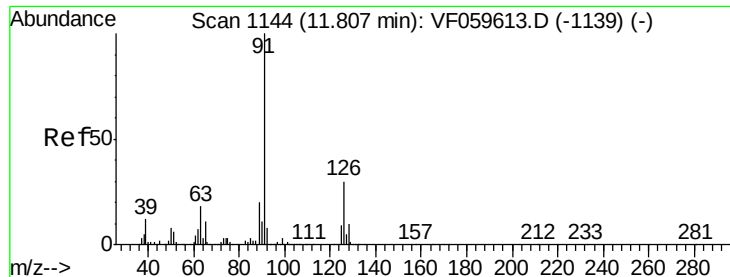
Acq: 23 Jul 2018 22:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		301215		
120	21.6	11.6	34.7		



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 57.22 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion: 91 Resp: 179869

Ion Ratio Lower Upper

91 100

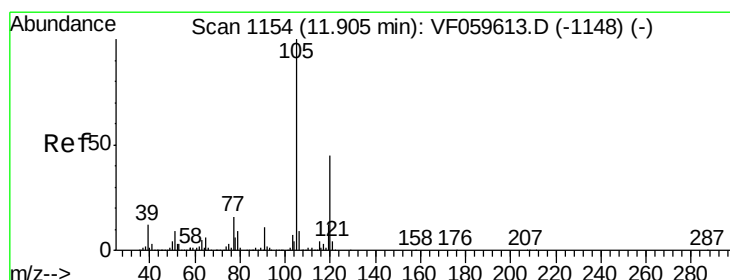
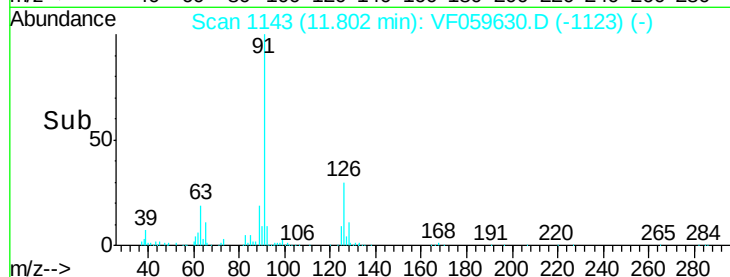
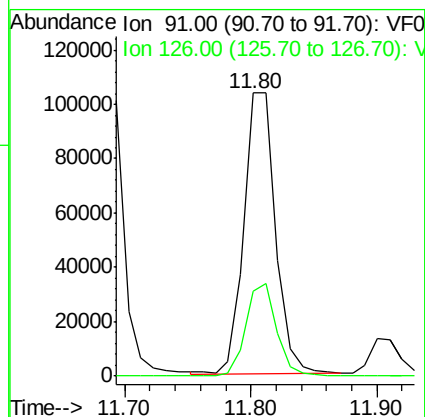
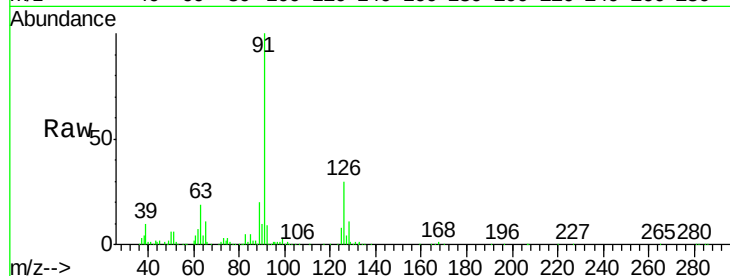
126 30.1 15.1 45.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 51.96 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VF059630.D

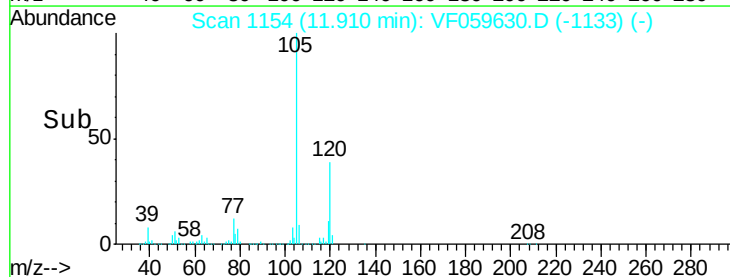
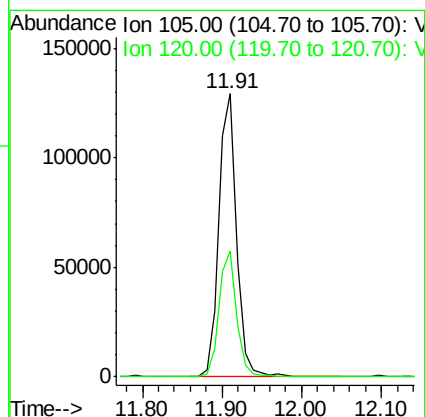
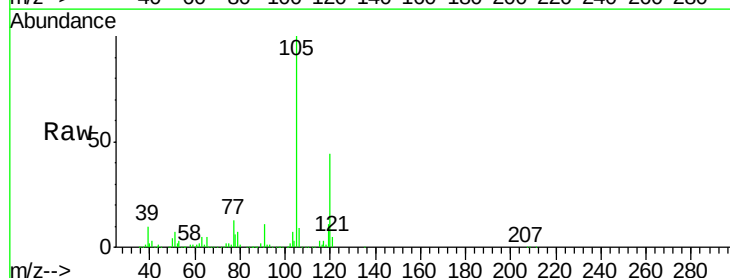
Acq: 23 Jul 2018 22:45

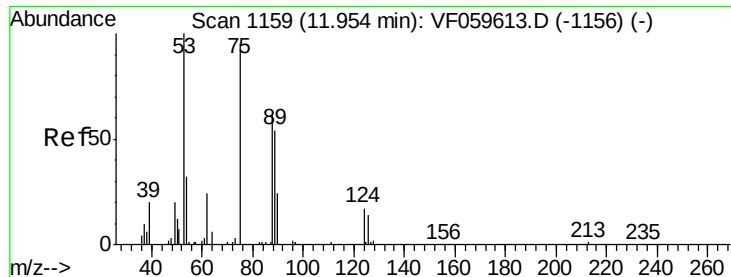
Tgt Ion: 105 Resp: 203592

Ion Ratio Lower Upper

105 100

120 44.3 22.4 67.0





#81

trans-1,4-Dichloro-2-butene

Concen: 44.99 ug/l m

RT: 11.95 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

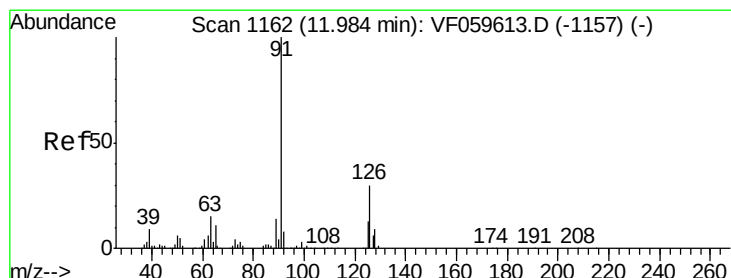
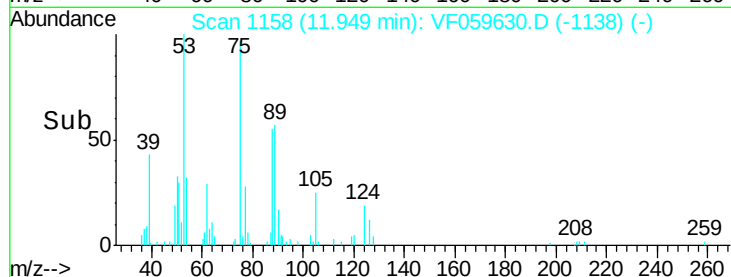
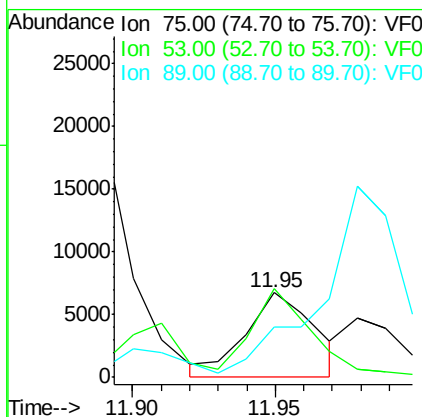
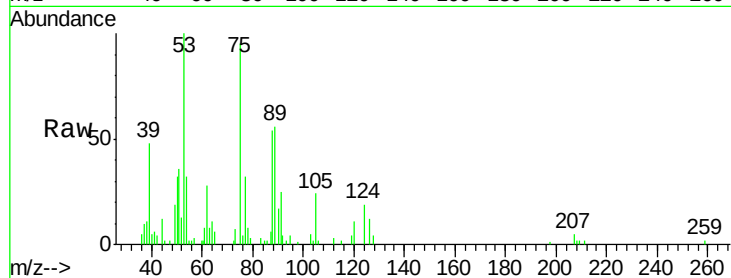
ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:	75	Resp:	11454
Ion	Ratio	Lower	Upper
75	100		
53	105.3	86.4	129.6
89	58.9	46.8	70.2

Manual Integrations
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#82

4-Chlorotoluene

Concen: 54.98 ug/l

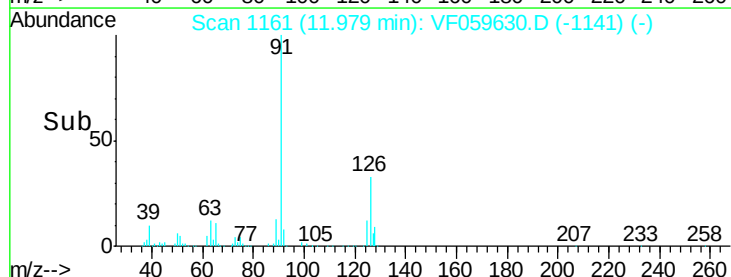
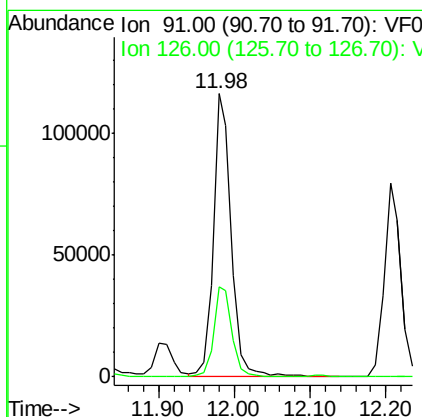
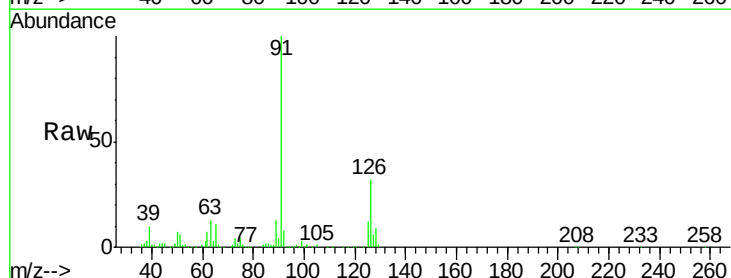
RT: 11.98 min Scan# 1161

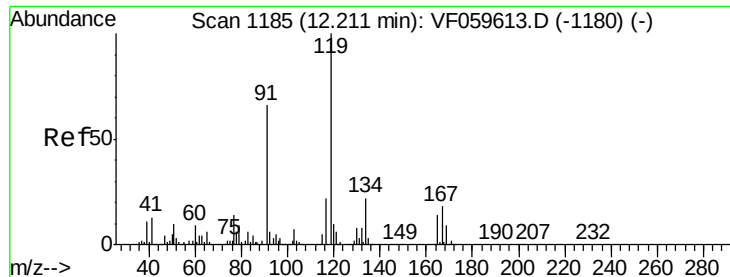
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	91	Resp:	192237
Ion	Ratio	Lower	Upper
91	100		
126	31.8	14.7	44.1





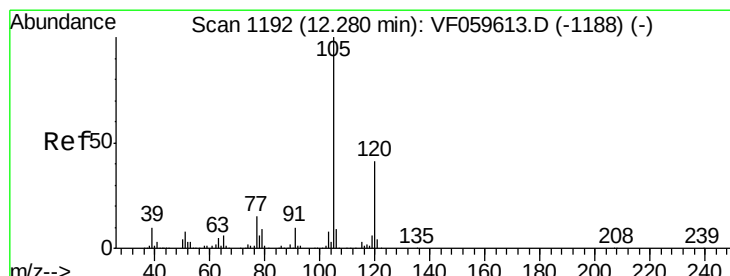
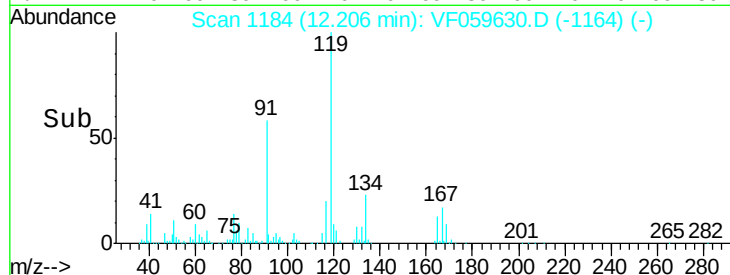
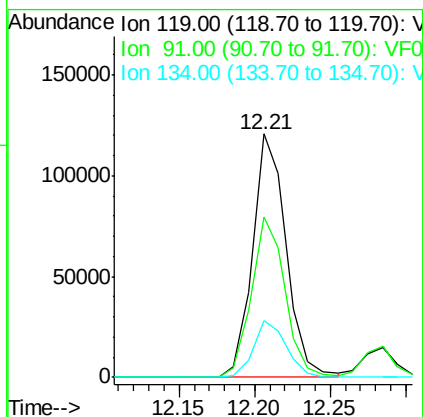
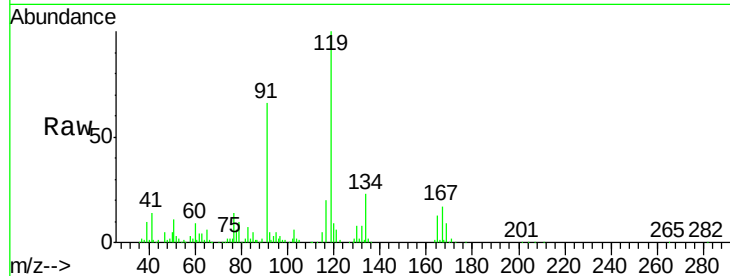
#83
 tert-Butylbenzene
 Concen: 48.23 ug/l
 RT: 12.21 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.9	33.2	99.6
134	23.2	10.9	32.6

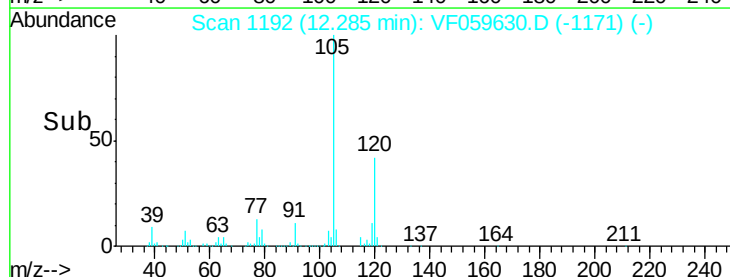
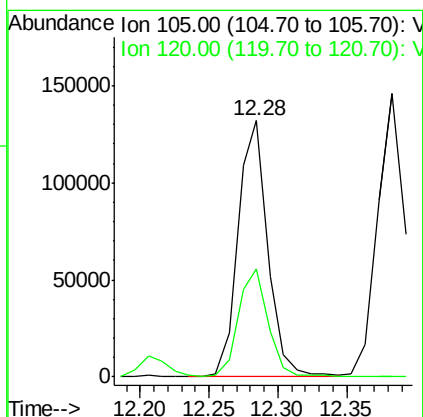
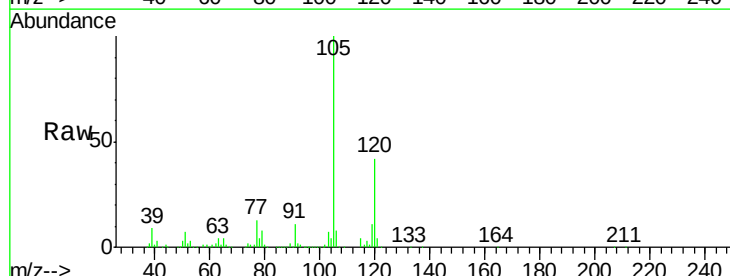
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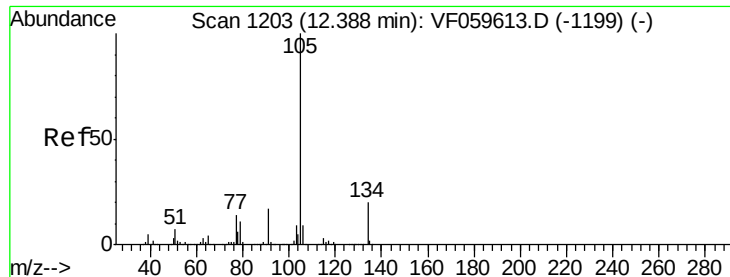
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.88 ug/l
 RT: 12.28 min Scan# 1192
 Delta R.T. 0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.1	20.4	61.3





#85

sec-Butylbenzene

Concen: 41.63 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:105 Resp: 208473

Ion Ratio Lower Upper

105 100

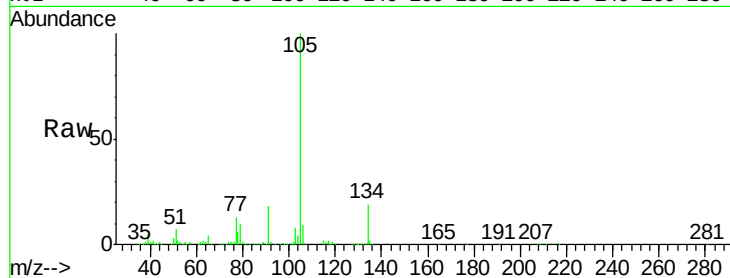
134 19.3 9.9 29.7

Manual Integrations

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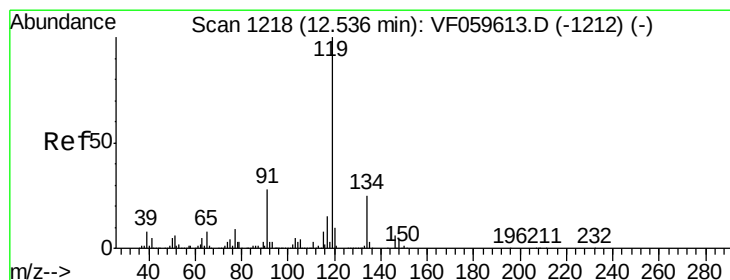
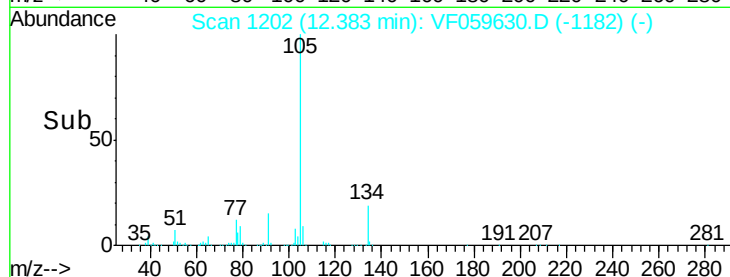
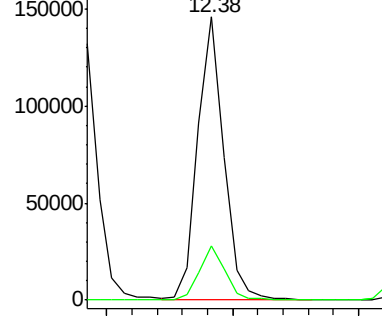
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 30.15 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

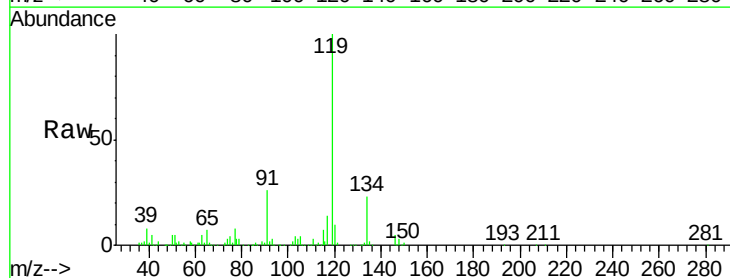
Tgt Ion:119 Resp: 132908

Ion Ratio Lower Upper

119 100

134 23.1 12.4 37.2

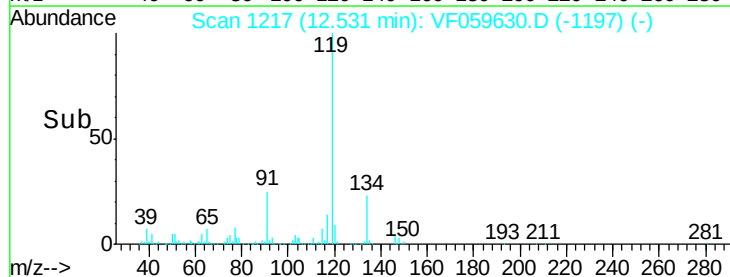
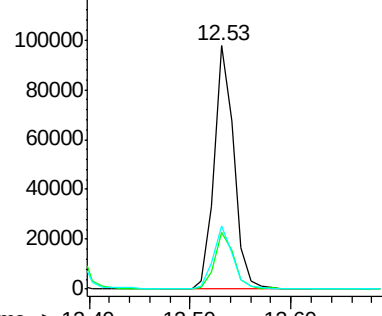
91 25.8 13.9 41.7

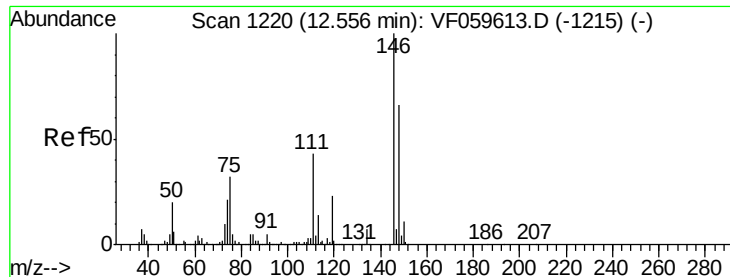


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 43.00 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

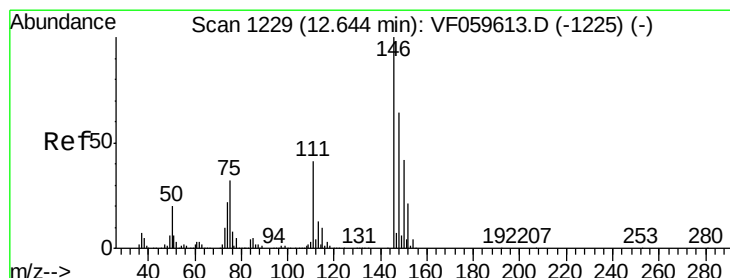
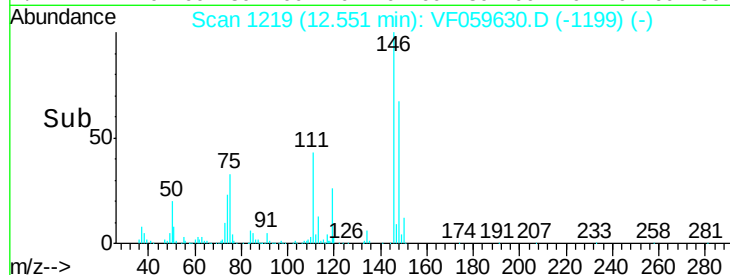
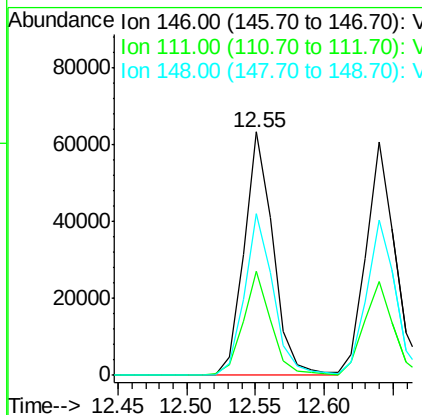
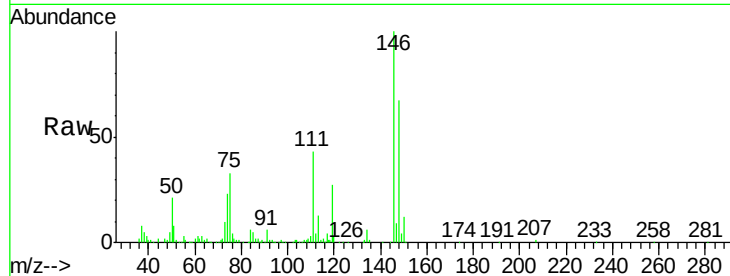
ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:	146	Resp:	93507
Ion Ratio	Lower	Upper	
146	100		
111	42.6	21.6	64.8
148	66.6	33.1	99.3

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#88

1,4-Dichlorobenzene

Concen: 44.75 ug/l

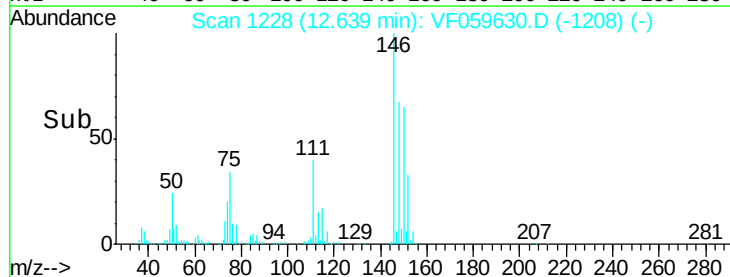
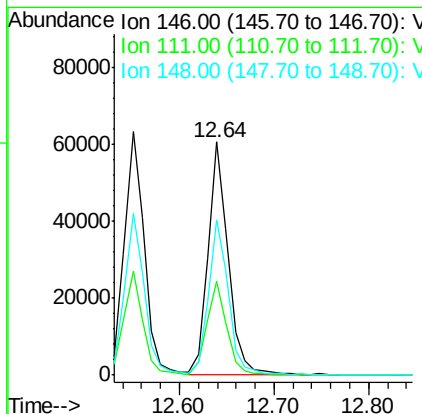
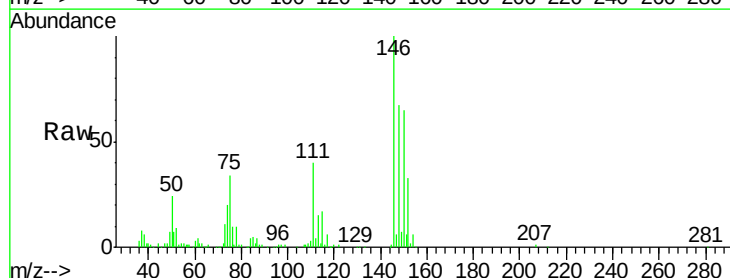
RT: 12.64 min Scan# 1228

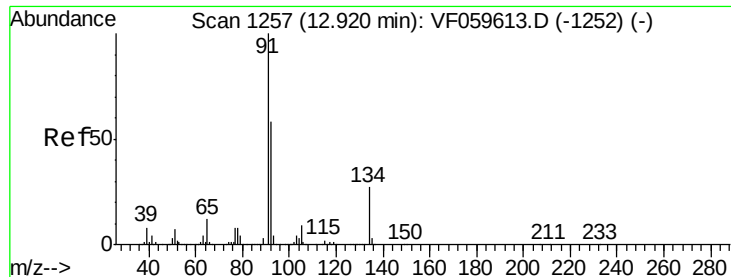
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	146	Resp:	91311
Ion Ratio	Lower	Upper	
146	100		
111	40.5	20.5	61.5
148	66.8	32.3	96.8





#89

n-Butylbenzene

Concen: 25.69 ug/l

RT: 12.92 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

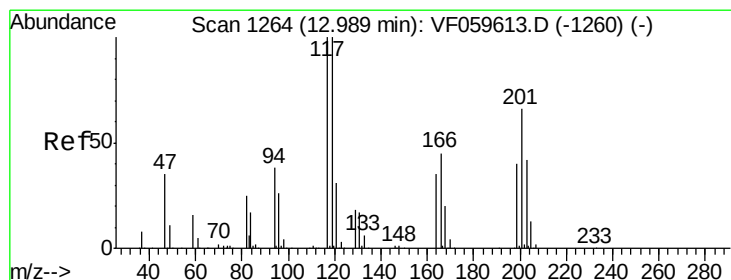
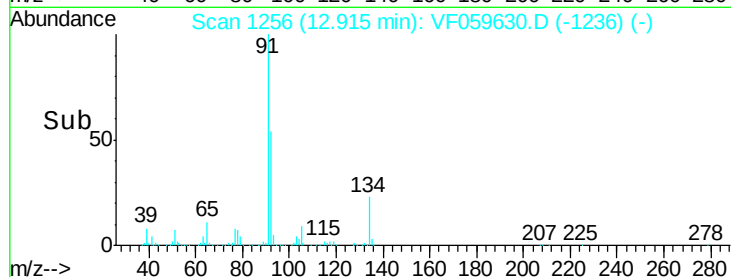
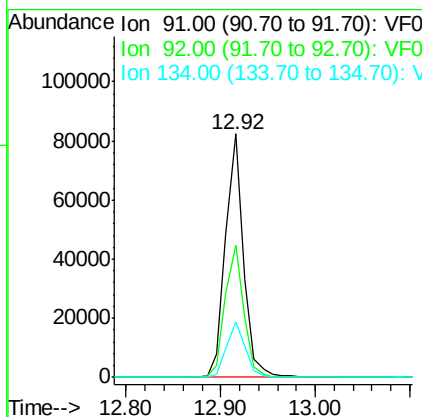
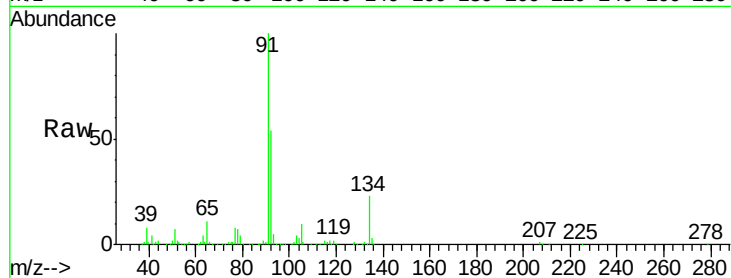
ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:	91	Resp:	108181
Ion Ratio	Lower	Upper	
91	100		
92	54.1	28.8	86.4
134	22.6	13.5	40.4

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#90

Hexachloroethane

Concen: 29.84 ug/l

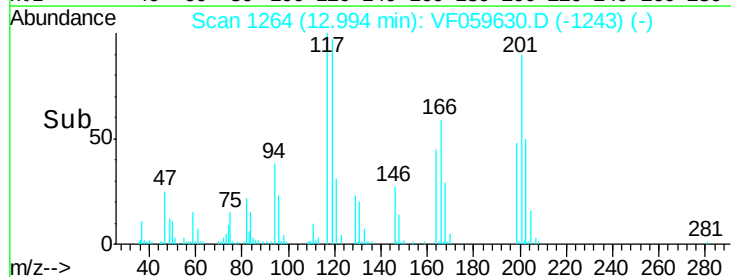
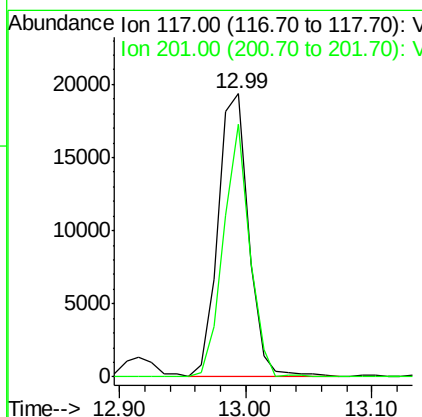
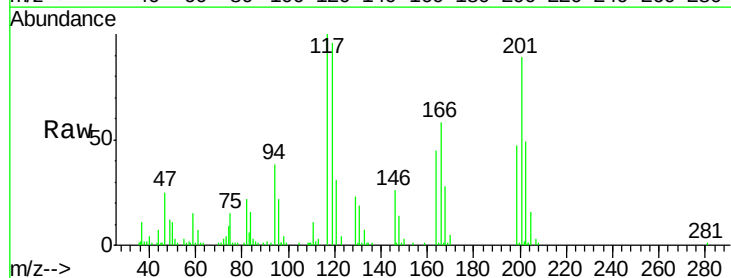
RT: 12.99 min Scan# 1264

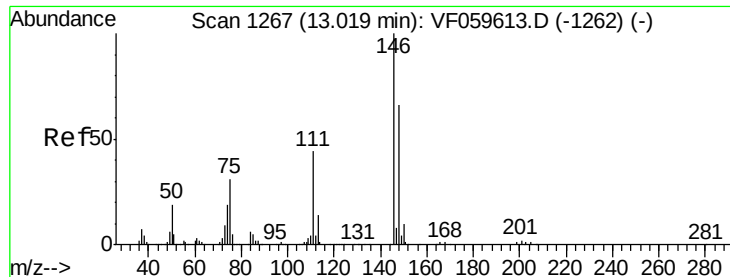
Delta R.T. 0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	117	Resp:	32580
Ion Ratio	Lower	Upper	
117	100		
201	91.0	33.6	100.6





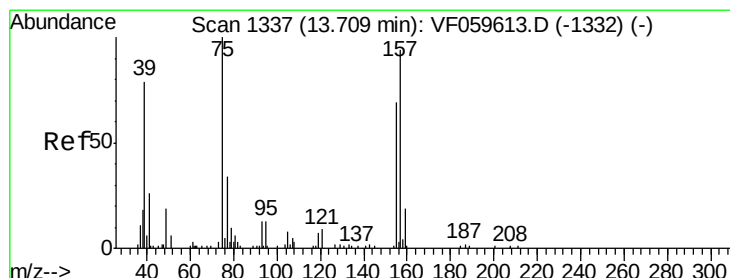
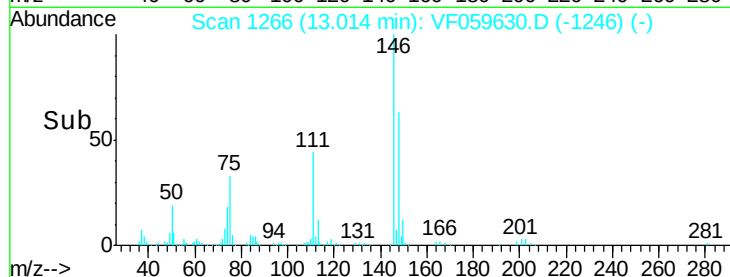
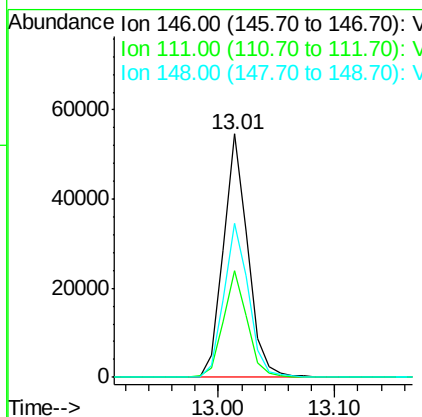
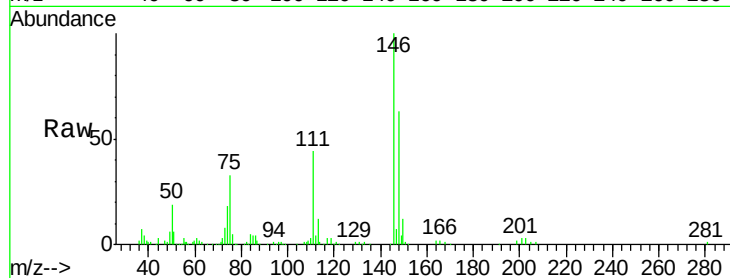
#91
 1,2-Dichlorobenzene
 Concen: 39.11 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.8	65.3
148	63.3	32.9	98.7

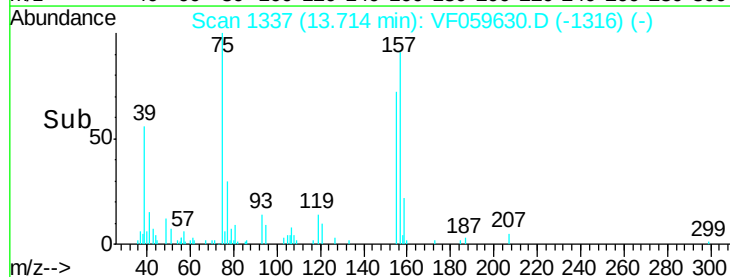
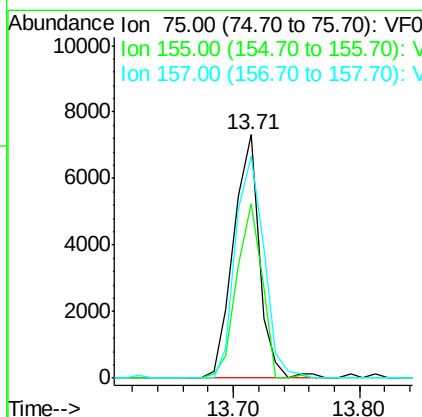
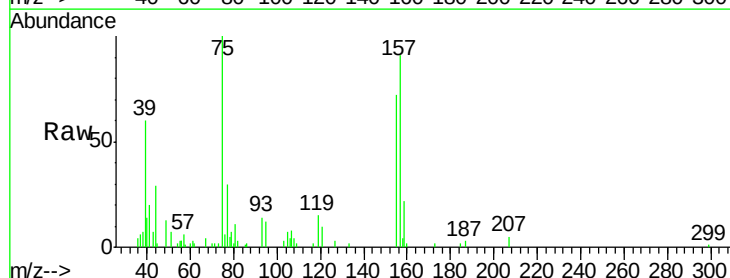
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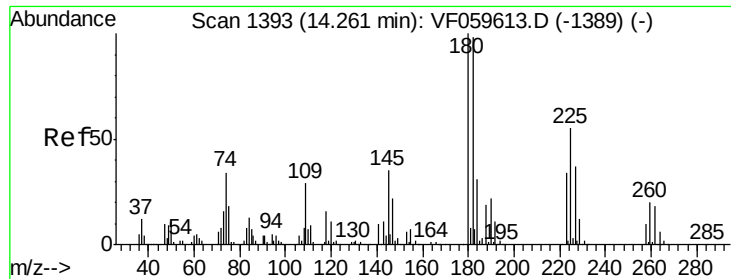
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 58.91 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	71.9	34.6	103.8
157	94.7	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 15.08 ug/l

RT: 14.27 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

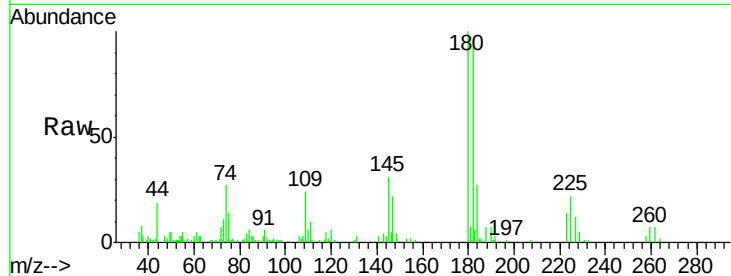
ClientSampleId :

GL-TOPSOIL-09MS

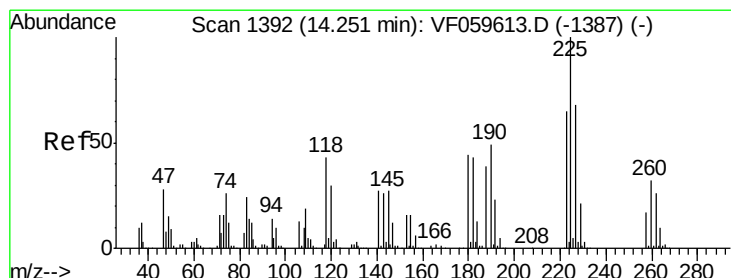
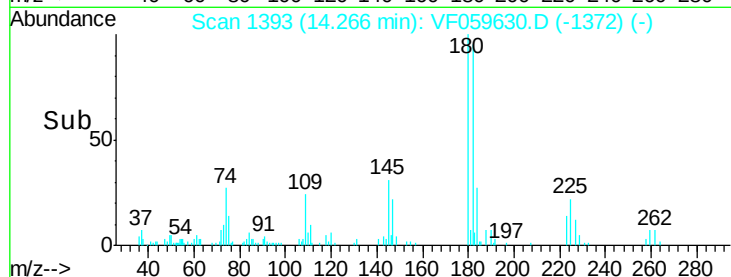
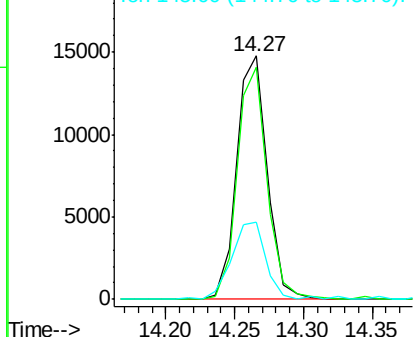
Tot Ion:	180	Resp:	22844
Ion Ratio	Lower	Upper	
180	100		
182	95.1	48.8	146.3
145	31.5	17.5	52.6

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



#94

Hexachlorobutadiene

Concen: 12.77 ug/l

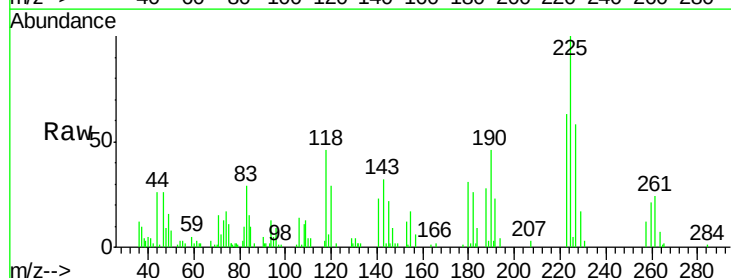
RT: 14.25 min Scan# 1391

Delta R.T. -0.01 min

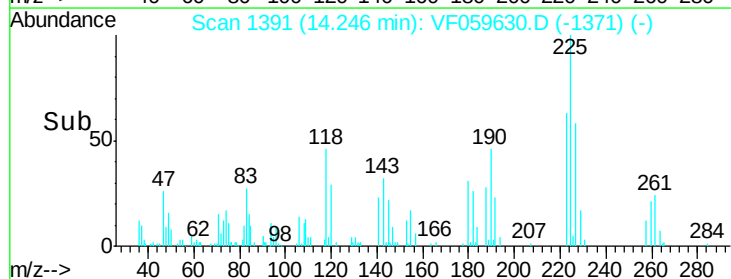
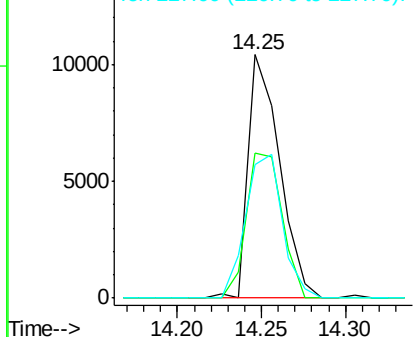
Lab File: VF059630.D

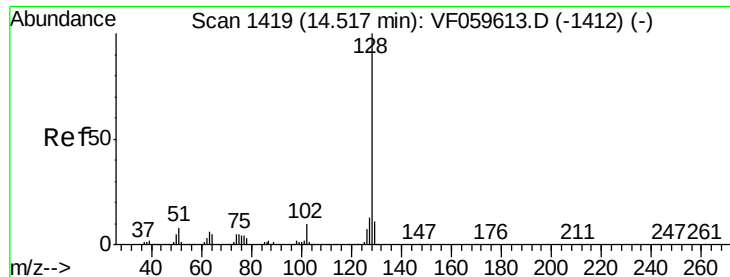
Acq: 23 Jul 2018 22:45

Tgt Ion:	225	Resp:	13468
Ion Ratio	Lower	Upper	
225	100		
223	59.5	32.6	98.0
227	55.0	33.9	101.6



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 18.20 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

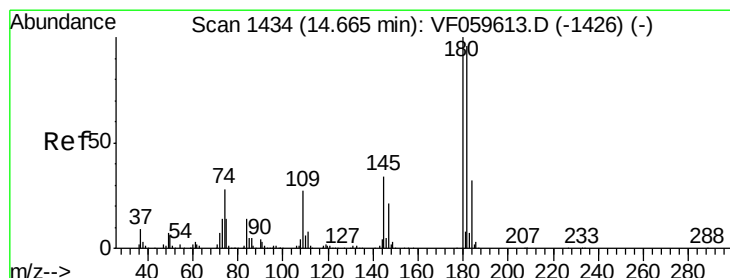
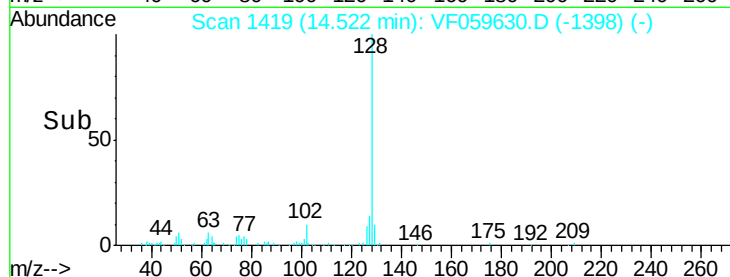
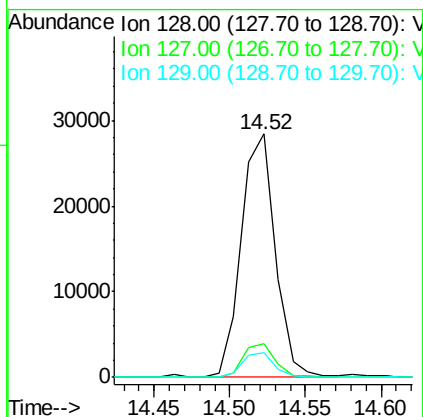
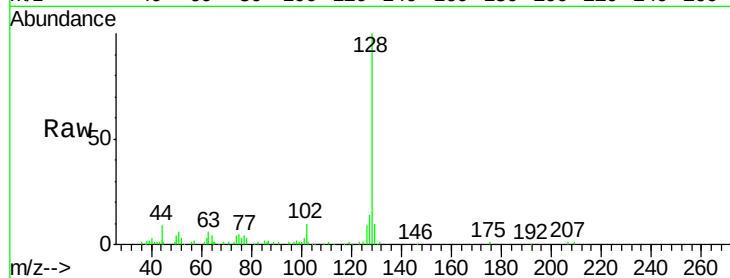
ClientSampleId :

GL-TOPSOIL-09MS

Tot Ion:	128	Resp:	44778
Ion Ratio	Lower	Upper	
128	100		
127	13.9	10.2	15.2
129	10.4	9.1	13.7

Manual Integrations
APPROVED

apatel
7/24/2018 1:14:46 PM



#96

1,2,3-Trichlorobenzene

Concen: 12.22 ug/l

RT: 14.66 min Scan# 1433

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	180	Resp:	16832
Ion Ratio	Lower	Upper	
180	100		
182	87.8	48.0	144.2
145	29.8	17.1	51.2

