

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061833.D
 Acq On : 4 Mar 2019 22:16
 Operator : VA/AP
 Sample : K1560-0210PPBL00
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

Quant Time: Mar 05 06:04:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	309439	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	461572	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	401507	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	224553	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	128475	57.01	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	114.02%	
35) Dibromofluoromethane	4.10	113	181063	56.21	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	112.42%	
50) Toluene-d8	7.55	98	523018	54.63	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.26%	
62) 4-Bromofluorobenzene	11.41	95	205075	54.68	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	40852	10.753	ug/l	96
3) Chloromethane	1.09	50	38527	10.464	ug/l	90
4) Vinyl Chloride	1.13	62	35855	10.259	ug/l	94
5) Bromomethane	1.33	94	26784	11.245	ug/l	94
6) Chloroethane	1.39	64	18204	10.957	ug/l	98
7) Trichlorofluoromethane	1.48	101	33599	7.871	ug/l	88
8) Diethyl Ether	1.63	74	9136	9.412	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	1.83	101	28837	9.948	ug/l	96
10) Methyl Iodide	1.84	142	12231	2.217	ug/l	94
11) Tert butyl alcohol	2.57	59	6483	50.686	ug/l #	75
12) 1,1-Dichloroethene	1.79	96	27431	10.365	ug/l	88
13) Acrolein	1.99	56	7028	43.364	ug/l #	59
14) Allyl chloride	2.09	41	30071	10.314	ug/l	97
15) Acrylonitrile	2.94	53	18835	46.245	ug/l	96
16) Acetone	2.24	43	23877	50.583	ug/l	99
17) Carbon Disulfide	1.82	76	61378	7.451	ug/l	97
18) Methyl Acetate	2.35	43	12906	9.374	ug/l	99
19) Methyl tert-butyl Ether	2.43	73	45569	10.179	ug/l	97
20) Methylene Chloride	2.17	84	13225	Below Cal		92
21) trans-1,2-Dichloroethene	2.31	96	29635	11.898	ug/l	99
22) Diisopropyl ether	2.79	45	81171	10.703	ug/l	97
23) Vinyl Acetate	3.18	43	166079	49.019	ug/l	99
24) 1,1-Dichloroethane	2.87	63	46495	10.257	ug/l	99
25) 2-Butanone	4.34	43	47410	49.377	ug/l	97
26) 2,2-Dichloropropane	3.59	77	18291	9.039	ug/l	91
27) cis-1,2-Dichloroethene	3.47	96	34080	9.876	ug/l	96
28) Bromochloromethane	3.72	49	22402	11.337	ug/l	92
29) Tetrahydrofuran	4.07	42	21280	51.390	ug/l	95
30) Chloroform	3.86	83	52587	10.156	ug/l	90
31) Cyclohexane	3.68	56	29041	6.117	ug/l	94
32) 1,1,1-Trichloroethane	4.09	97	32523	10.191	ug/l	87
36) 1,1-Dichloropropene	4.27	75	42829	9.823	ug/l	94
37) Ethyl Acetate	4.10	43	18524	10.122	ug/l	96
38) Carbon Tetrachloride	3.98	117	30197	9.784	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.45	83	49194	9.552	ug/l	95
40) Benzene	4.62	78	115568	10.140	ug/l	99
41) Methacrylonitrile	4.75	41	9031	9.007	ug/l #	82
42) 1,2-Dichloroethane	4.94	62	27548	9.699	ug/l	98
43) Isopropyl Acetate	6.96	43	21792	9.660	ug/l #	88
44) Trichloroethene	5.49	130	36083	10.188	ug/l	100
45) 1,2-Dichloropropane	6.23	63	26119	9.638	ug/l #	85
46) Dibromomethane	6.07	93	15811	9.270	ug/l #	86
47) Bromodichloromethane	6.38	83	36531	9.695	ug/l #	97
48) Methyl methacrylate	6.71	41	13159	9.217	ug/l #	84
49) 1,4-Dioxane	6.71	88	2539	194.543	ug/l	90
51) 4-Methyl-2-Pentanone	8.26	43	81122	52.031	ug/l	96
52) Toluene	7.62	92	66618	9.881	ug/l	90
53) t-1,3-Dichloropropene	8.27	75	30262	9.729	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	38927	9.073	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	19704	10.143	ug/l	96
56) Ethyl methacrylate	8.62	69	21592	9.863	ug/l	90
57) 1,3-Dichloropropane	8.85	76	32255	10.153	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.29	63	18923	54.641	ug/l	96
59) 2-Hexanone	9.49	43	57172	50.830	ug/l	95
60) Dibromochloromethane	8.72	129	26011	9.395	ug/l	92
61) 1,2-Dibromoethane	8.98	107	19512	9.134	ug/l	92
64) Tetrachloroethene	8.15	164	30024	9.732	ug/l	96
65) Chlorobenzene	9.79	112	75815	9.828	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	29826	9.980	ug/l	98
67) Ethyl Benzene	9.90	91	129374	10.119	ug/l	95
68) m/p-Xylenes	10.13	106	100624	20.544	ug/l	96
69) o-Xylene	10.71	106	51541	9.772	ug/l	94
70) Styrene	10.79	104	73604	9.916	ug/l	96
71) Bromoform	10.77	173	14825	9.385	ug/l #	94
73) Isopropylbenzene	11.12	105	151764	9.817	ug/l	98
74) N-amyl acetate	11.37	43	34806	9.780	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.69	83	24202	9.419	ug/l	96
76) 1,2,3-Trichloropropane	11.79	75	17573	10.021	ug/l	96
77) Bromobenzene	11.50	156	34828	9.361	ug/l	84
78) n-propylbenzene	11.60	91	177509	10.168	ug/l	98
79) 2-Chlorotoluene	11.71	91	98606	9.879	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	122485	9.868	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.87	75	9014	11.241	ug/l	99
82) 4-Chlorotoluene	11.90	91	105522	10.336	ug/l	95
83) tert-Butylbenzene	12.13	119	129148	9.799	ug/l	90
84) 1,2,4-Trimethylbenzene	12.21	105	123390	10.141	ug/l	96
85) sec-Butylbenzene	12.31	105	174623	10.182	ug/l	98
86) p-Isopropyltoluene	12.45	119	151070	10.362	ug/l	96
87) 1,3-Dichlorobenzene	12.47	146	70987	10.048	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	69202	10.155	ug/l	94
89) n-Butylbenzene	12.84	91	143703	10.314	ug/l	94
90) Hexachloroethane	12.92	117	33090	9.430	ug/l	77
91) 1,2-Dichlorobenzene	12.94	146	68613	10.251	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	3861	11.769	ug/l	85

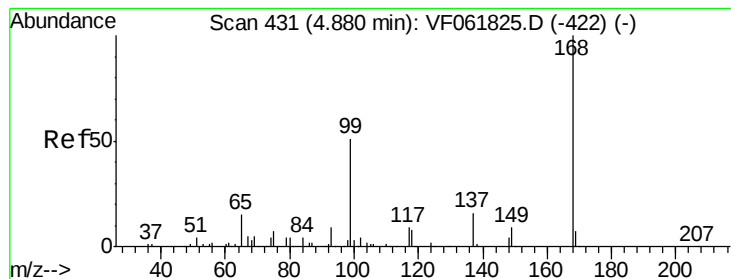
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	46871	9.989	ug/l	96
94) Hexachlorobutadiene	14.19	225	30252	9.313	ug/l	94
95) Naphthalene	14.46	128	79134	9.468	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	41818	9.652	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

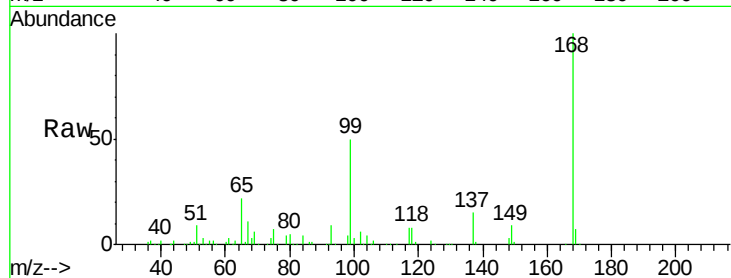
LOQ-SOIL-02-QT1-2019

Tot Ion:168 Resp: 309439

Ion Ratio Lower Upper

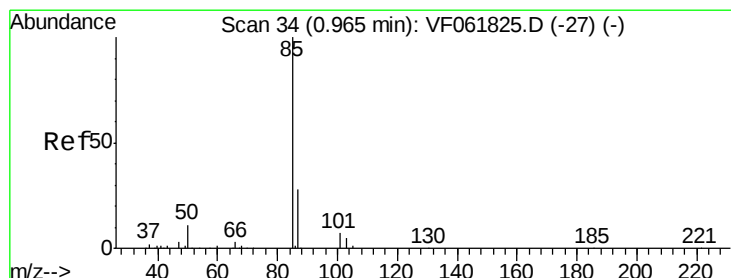
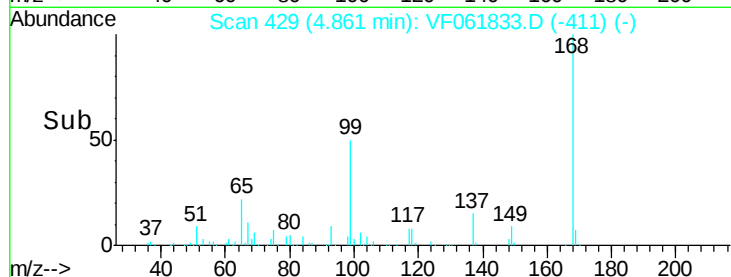
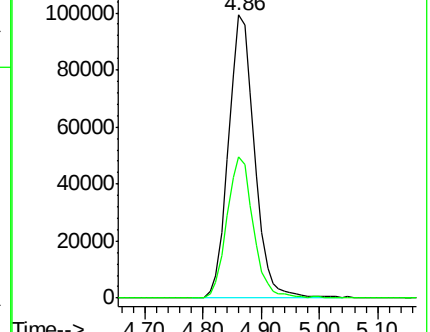
168 100

99 49.8 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 10.753 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061833.D

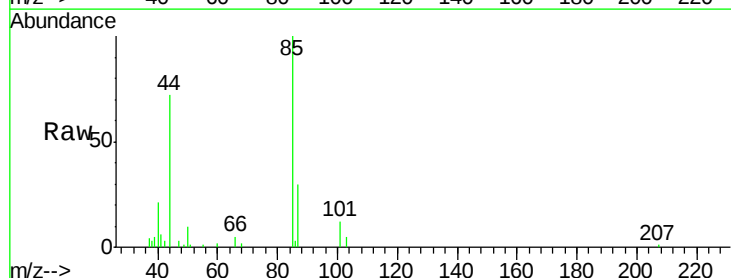
Acq: 4 Mar 2019 22:16

Tgt Ion: 85 Resp: 40852

Ion Ratio Lower Upper

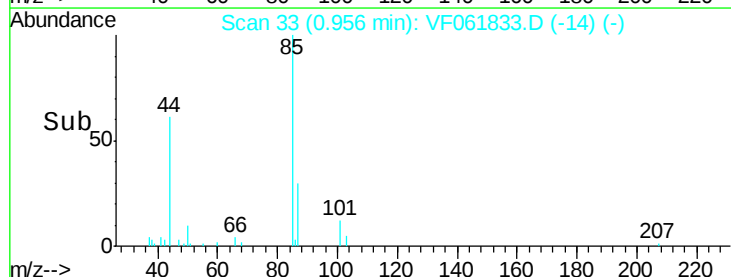
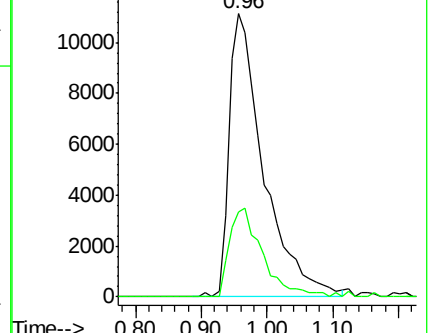
85 100

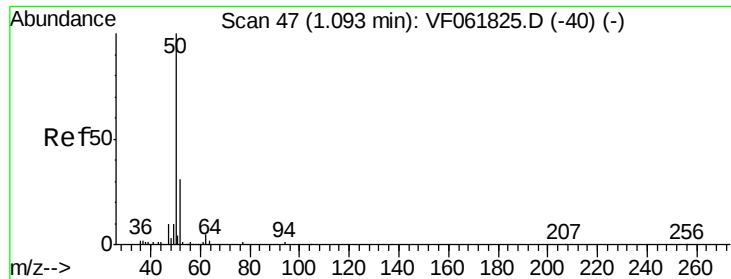
87 30.1 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 10.464 ug/l

RT: 1.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

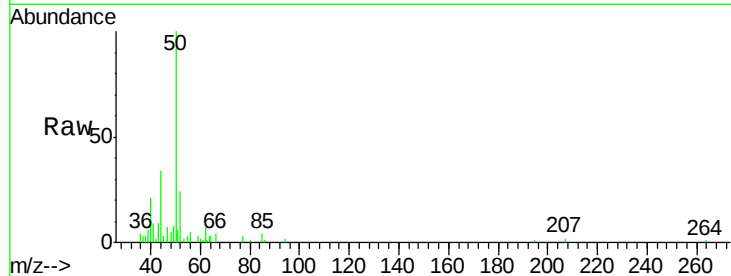
LOQ-SOIL-02-QT1-2019

Tot Ion: 50 Resp: 38527

Ion Ratio Lower Upper

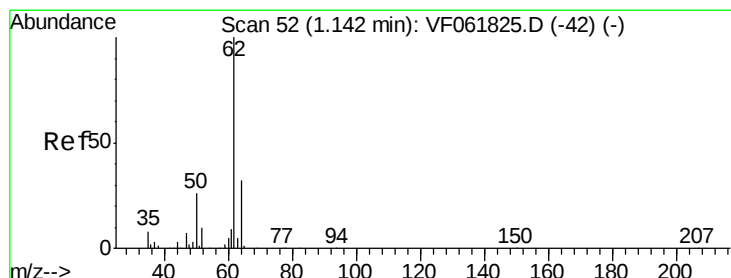
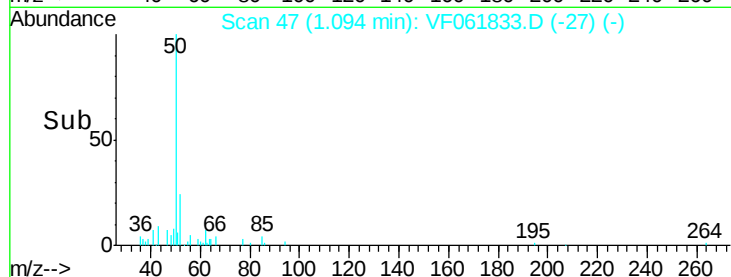
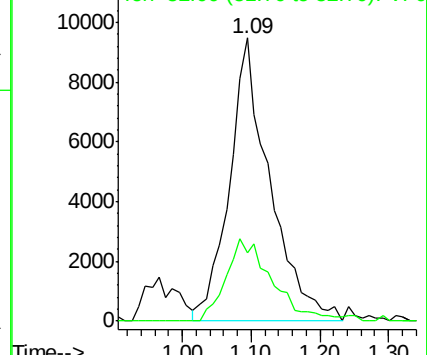
50 100

52 24.2 23.8 35.8



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 10.259 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061833.D

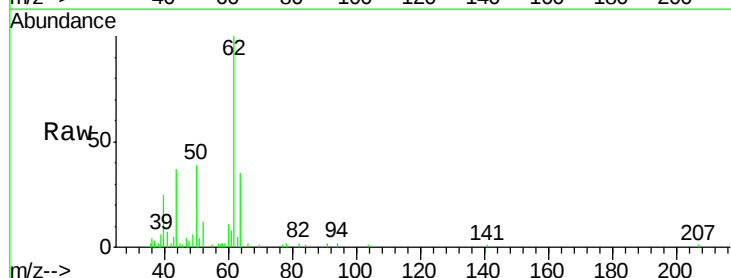
Acq: 4 Mar 2019 22:16

Tgt Ion: 62 Resp: 35855

Ion Ratio Lower Upper

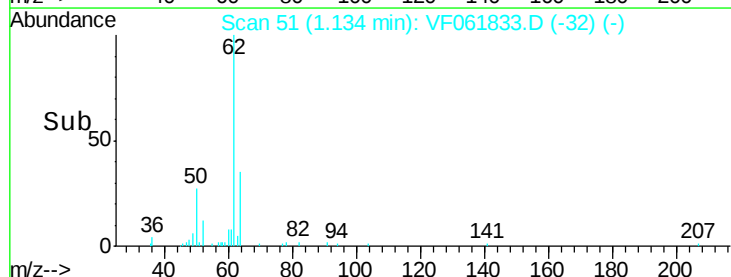
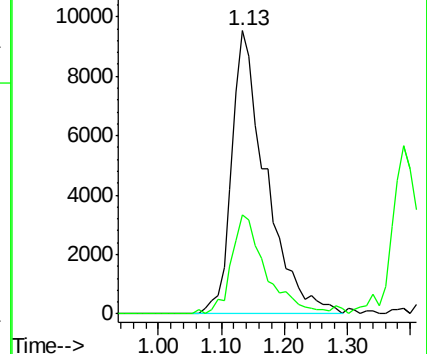
62 100

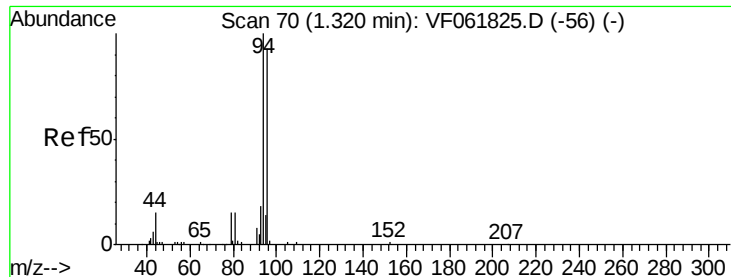
64 35.0 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 11.245 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

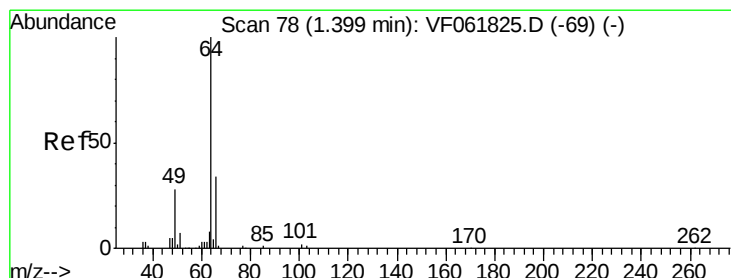
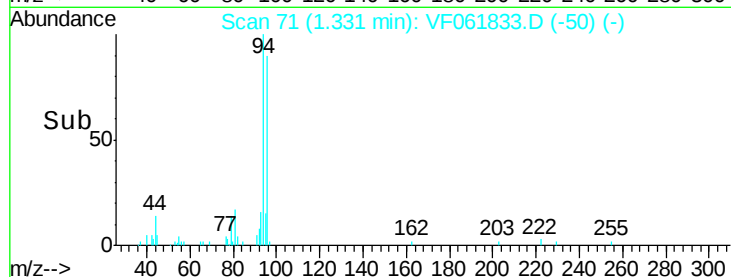
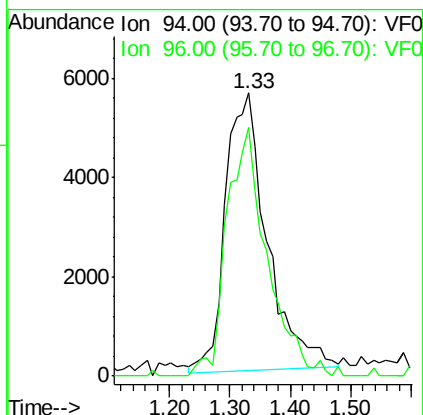
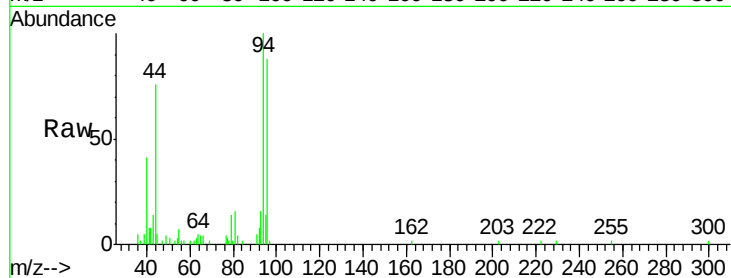
LOQ-SOIL-02-QT1-2019

Tot Ion: 94 Resp: 26784

Ion Ratio Lower Upper

94 100

96 88.1 75.2 112.8



#6

Chloroethane

Concen: 10.957 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061833.D

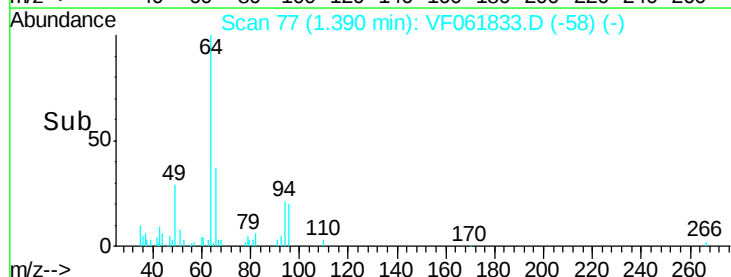
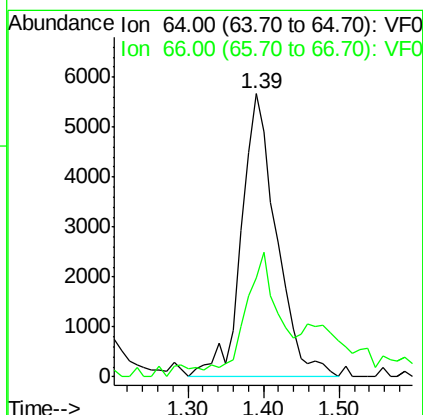
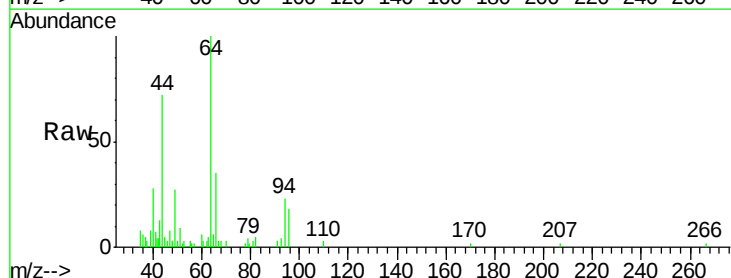
Acq: 4 Mar 2019 22:16

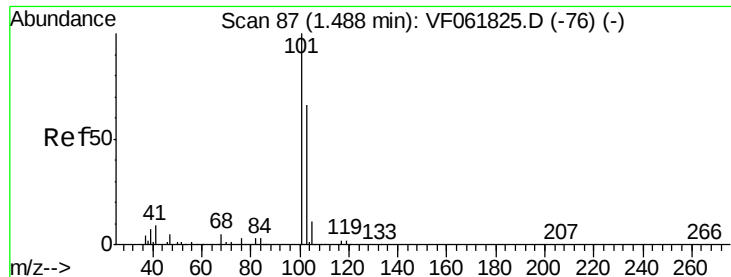
Tgt Ion: 64 Resp: 18204

Ion Ratio Lower Upper

64 100

66 34.8 27.0 40.4





#7

Trichlorofluoromethane

Concen: 7.871 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

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Acq: 4 Mar 2019 22:16

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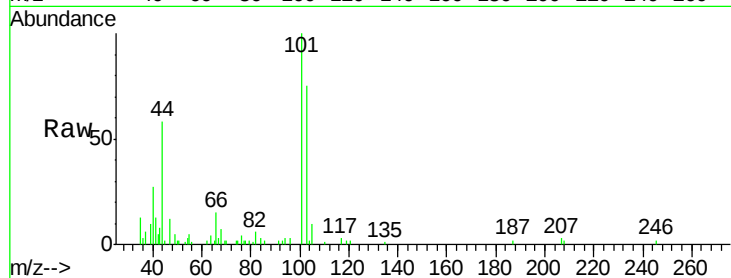
LOQ-SOIL-02-QT1-2019

Tot Ion:101 Resp: 33599

Ion Ratio Lower Upper

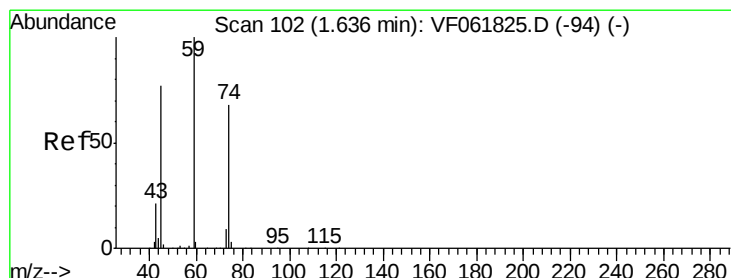
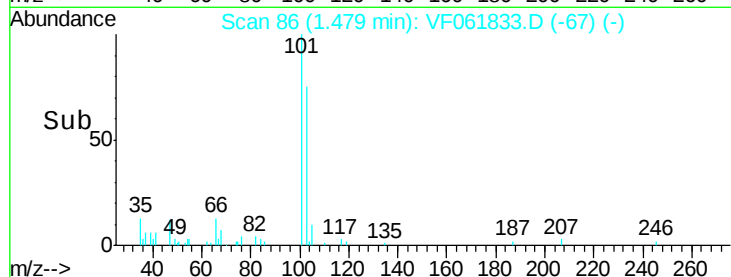
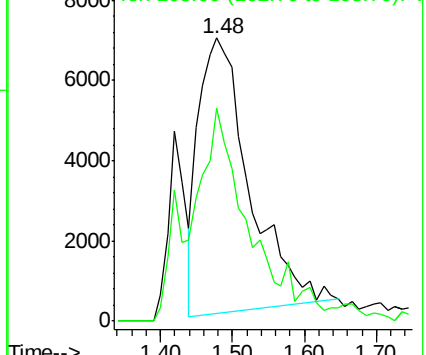
101 100

103 75.3 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 9.412 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061833.D

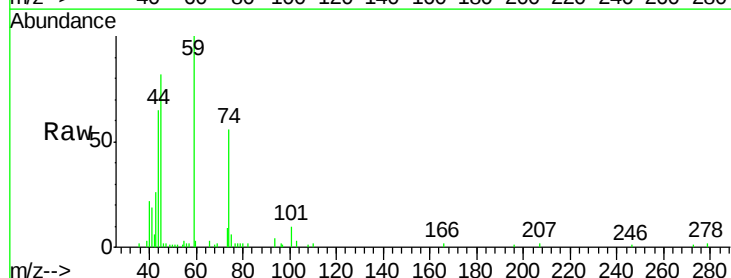
Acq: 4 Mar 2019 22:16

Tgt Ion: 74 Resp: 9136

Ion Ratio Lower Upper

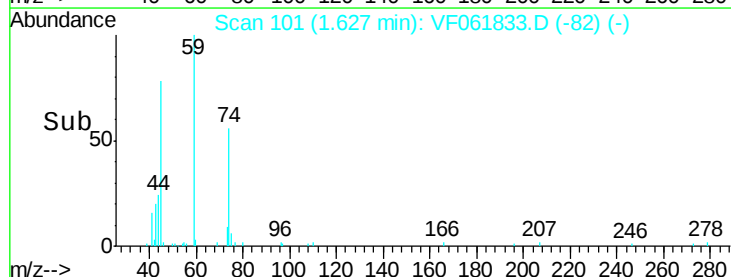
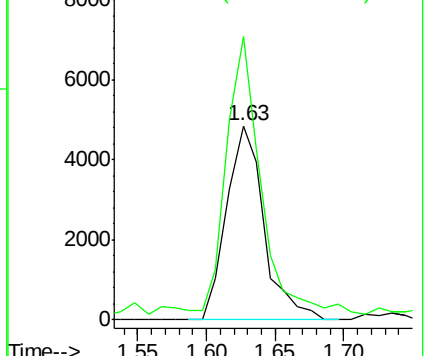
74 100

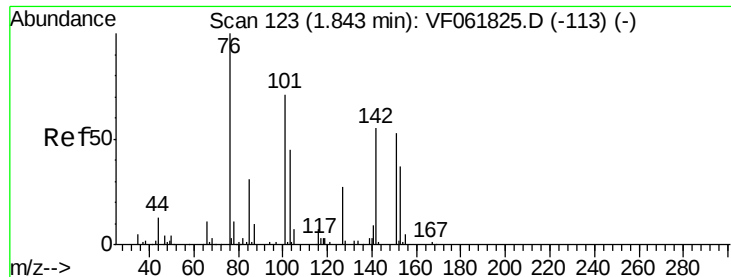
45 145.7 57.2 171.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.948 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

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LOQ-SOIL-02-QT1-2019

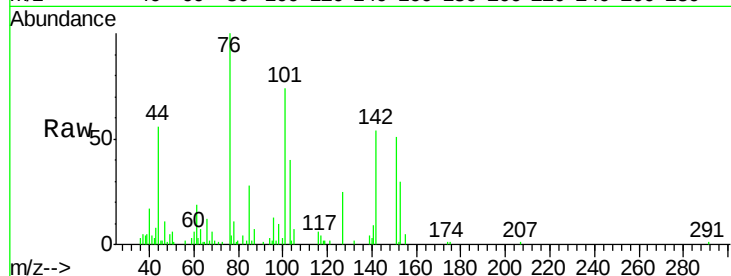
Tot Ion:101 Resp: 28837

Ion Ratio Lower Upper

101 100

85 38.7 34.0 51.0

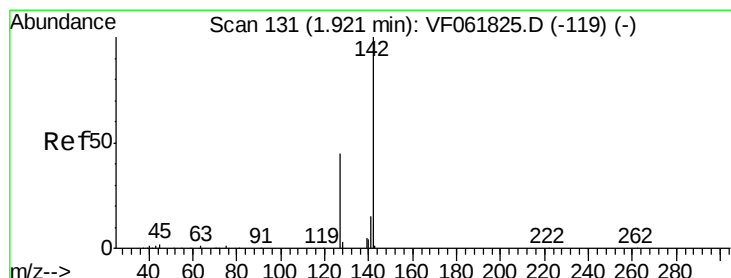
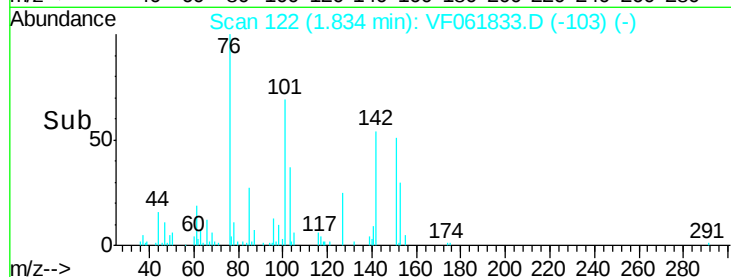
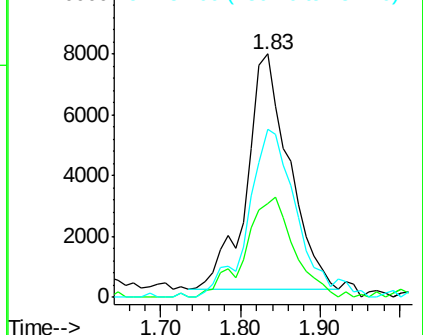
151 68.9 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 2.217 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.08 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

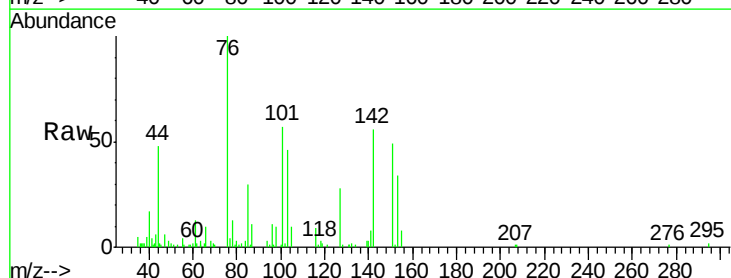
Tgt Ion:142 Resp: 12231

Ion Ratio Lower Upper

142 100

127 49.8 35.8 53.6

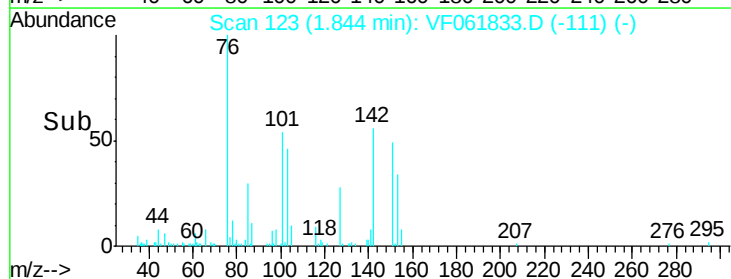
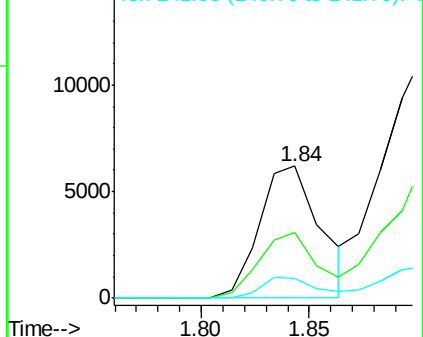
141 14.7 11.7 17.5

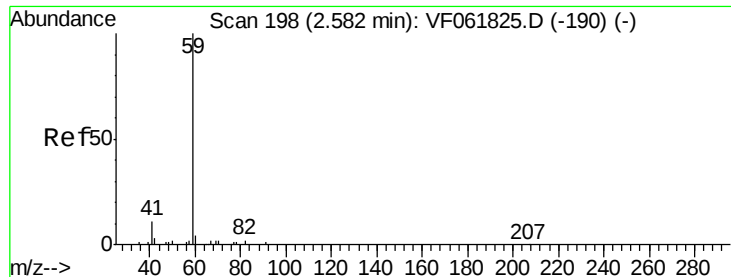


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

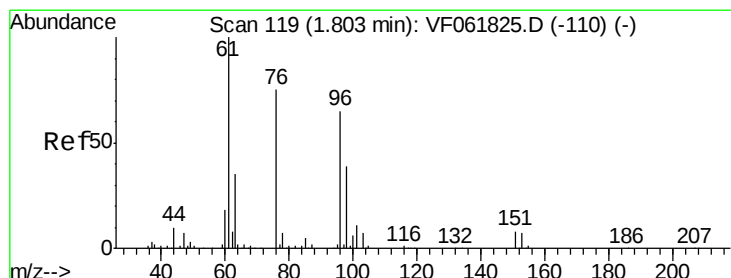
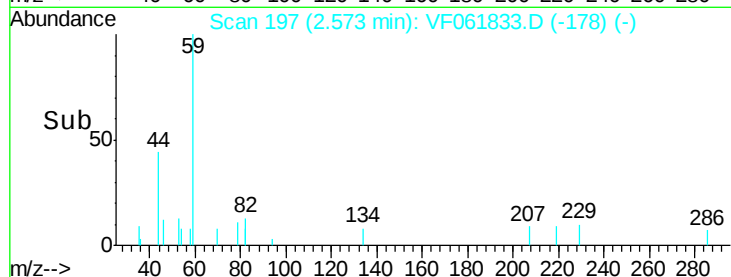
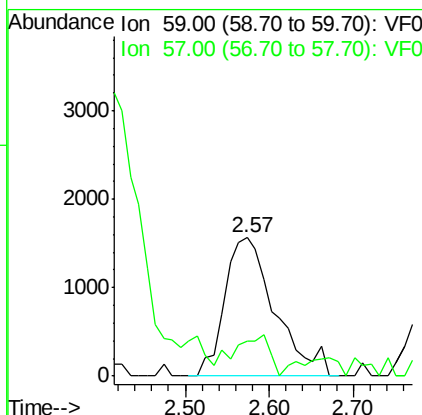
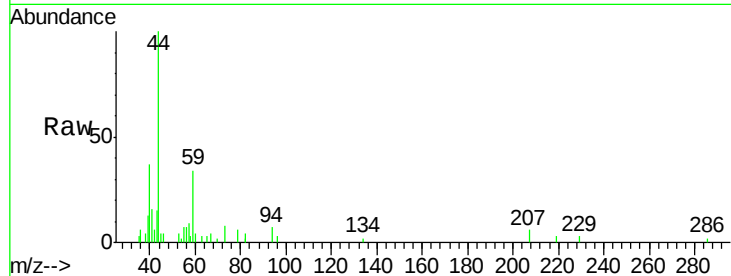




#11
Tert butyl alcohol
Concen: 50.686 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

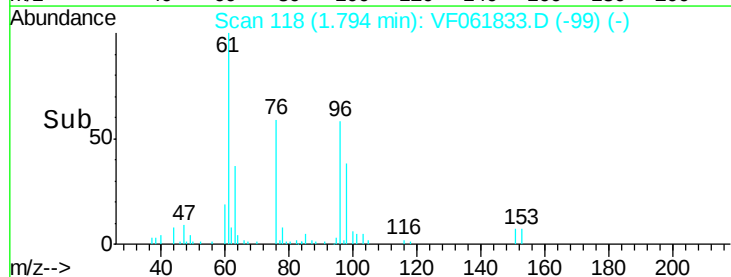
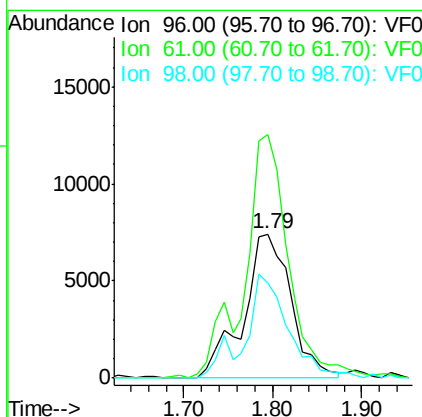
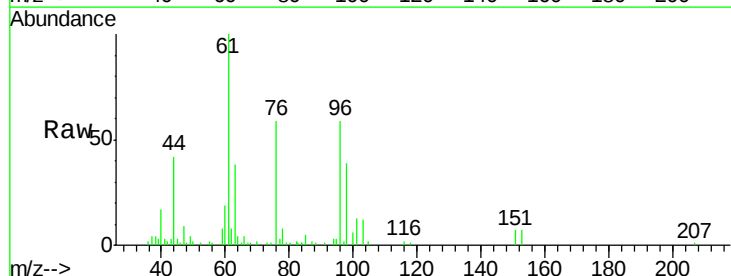
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

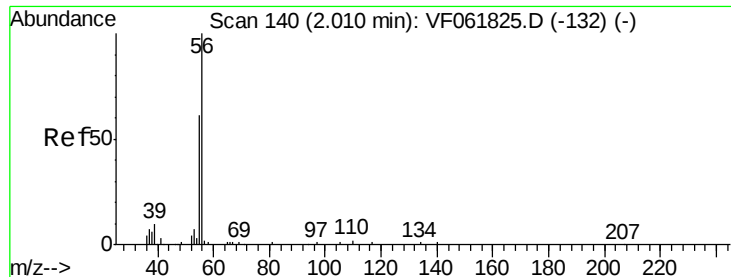
Tot Ion: 59 Resp: 6483
Ion Ratio Lower Upper
59 100
57 25.2 11.8 17.6#



#12
1,1-Dichloroethene
Concen: 10.365 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 96 Resp: 27431
Ion Ratio Lower Upper
96 100
61 168.8 122.5 183.7
98 66.4 47.1 70.7

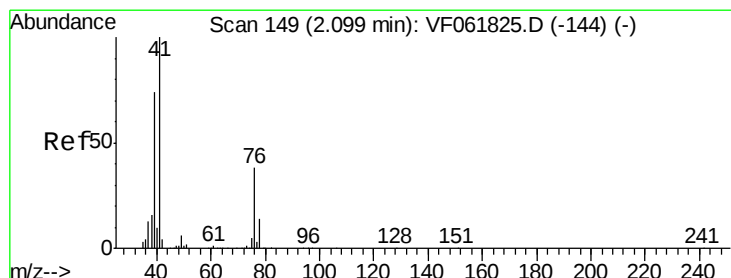
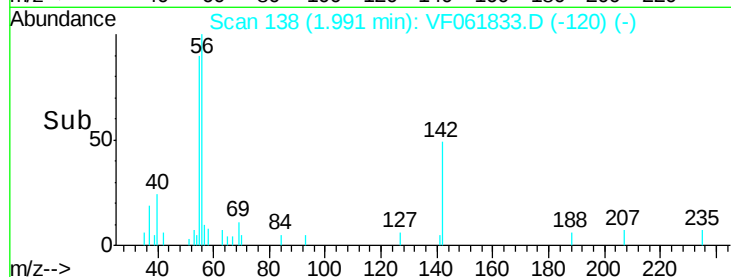
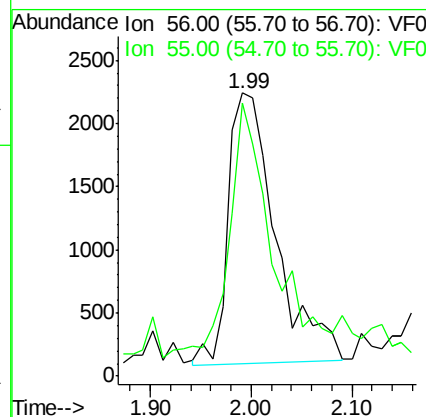
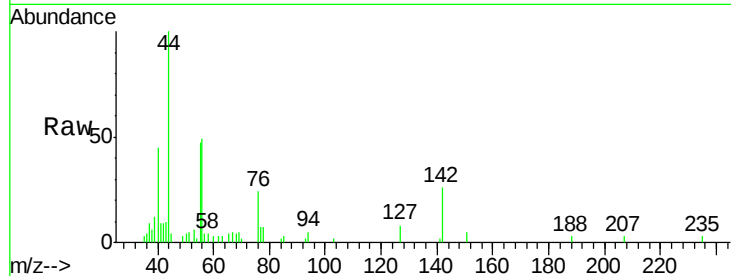




#13
Acrolein
Concen: 43.364 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.02 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

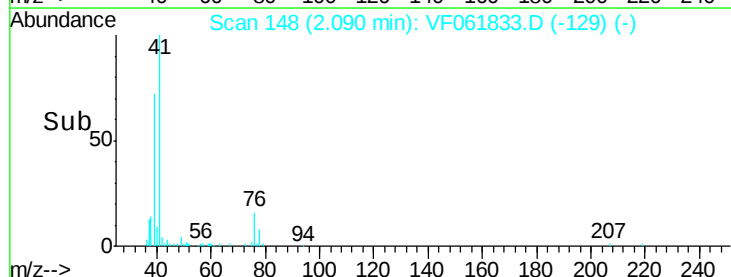
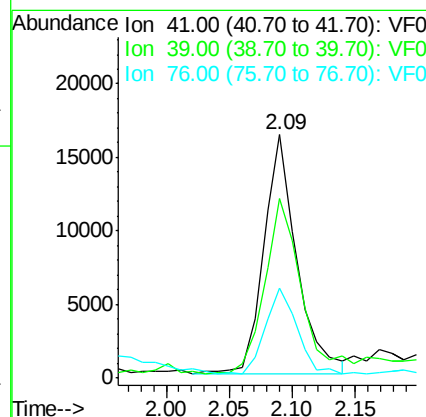
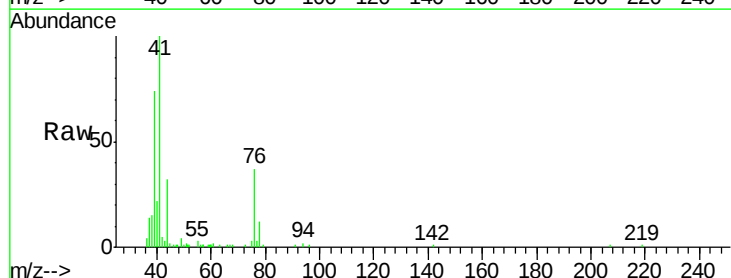
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

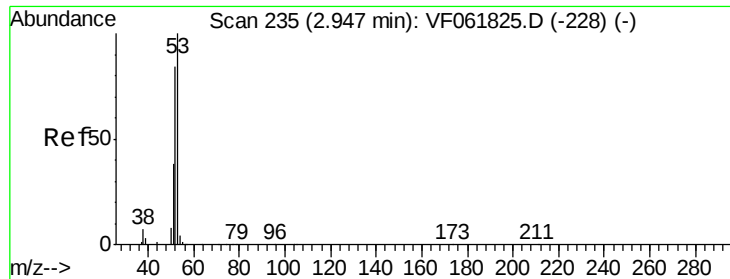
Tot Ion: 56 Resp: 7028
Ion Ratio Lower Upper
56 100
55 96.3 51.3 76.9#



#14
Allyl chloride
Concen: 10.314 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 41 Resp: 30071
Ion Ratio Lower Upper
41 100
39 73.7 59.6 89.4
76 36.8 32.3 48.5





#15

Acrylonitrile

Concen: 46.245 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

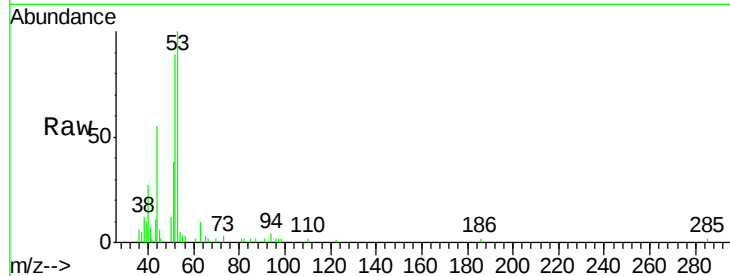
Tot Ion: 53 Resp: 18835

Ion Ratio Lower Upper

53 100

52 89.1 67.4 101.0

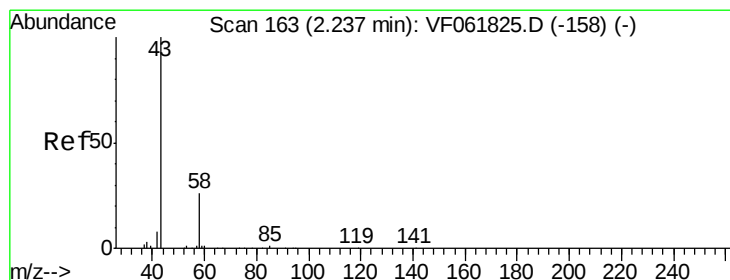
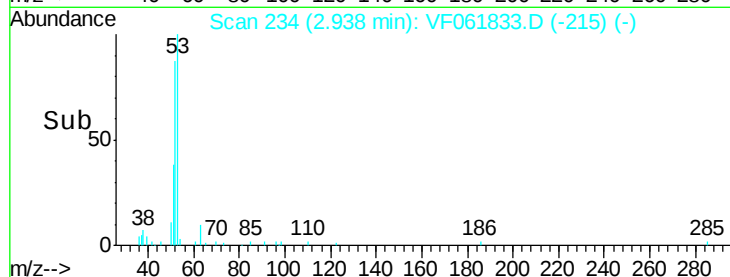
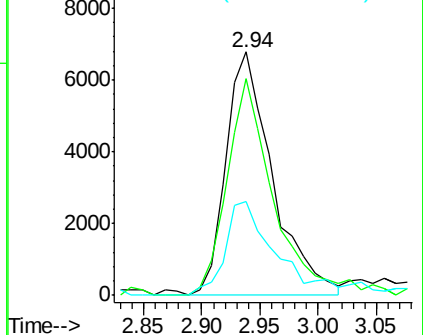
51 38.4 30.7 46.1



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 50.583 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF061833.D

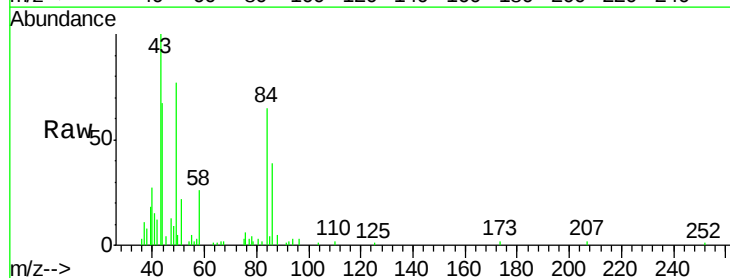
Acq: 4 Mar 2019 22:16

Tgt Ion: 43 Resp: 23877

Ion Ratio Lower Upper

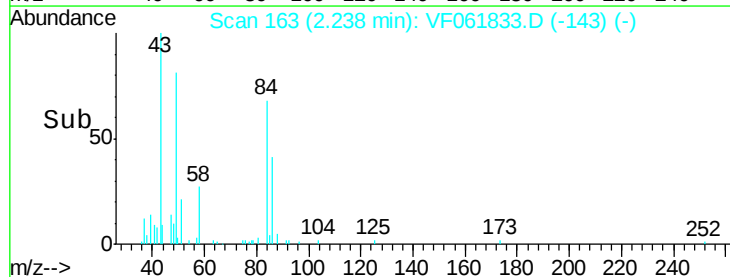
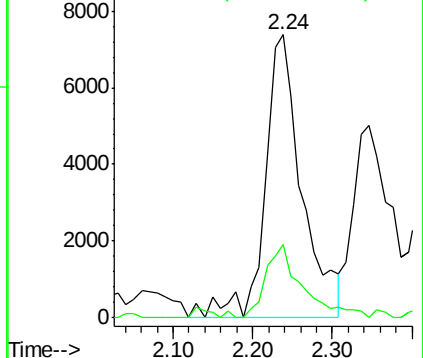
43 100

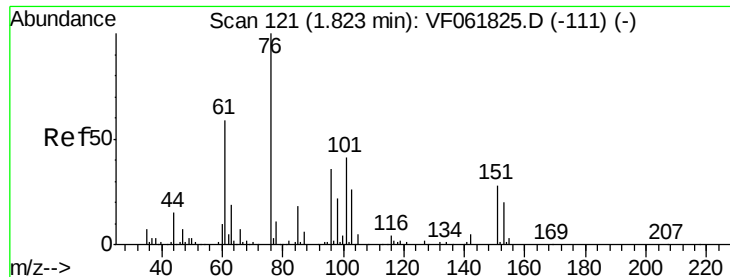
58 26.0 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 7.451 ug/l

RT: 1.82 min Scan# 121

Delta R.T. 0.00 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

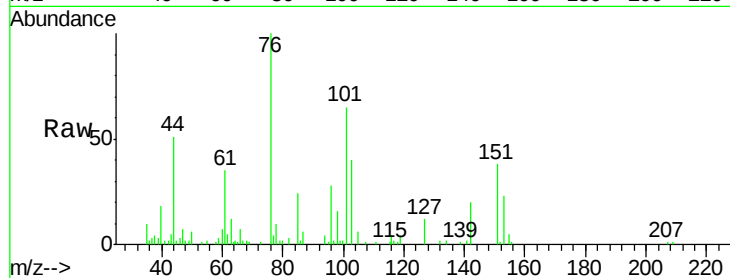
LOQ-SOIL-02-QT1-2019

Tot Ion: 76 Resp: 61378

Ion Ratio Lower Upper

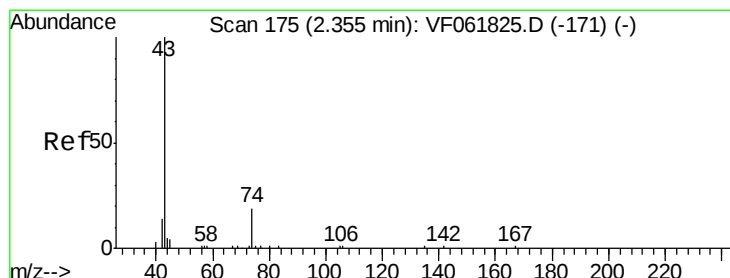
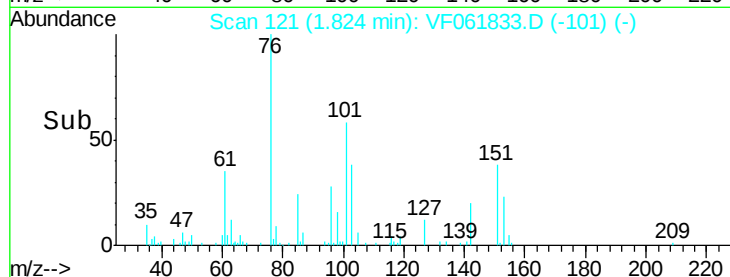
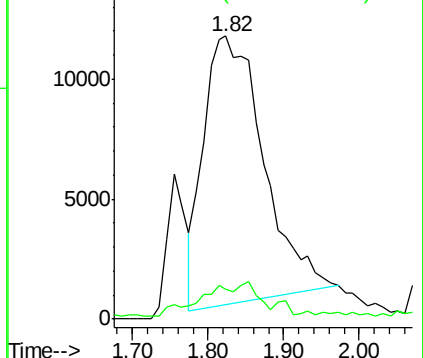
76 100

78 10.4 9.1 13.7



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 9.374 ug/l

RT: 2.35 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061833.D

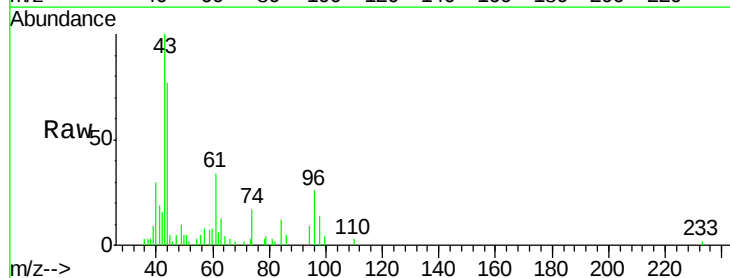
Acq: 4 Mar 2019 22:16

Tgt Ion: 43 Resp: 12906

Ion Ratio Lower Upper

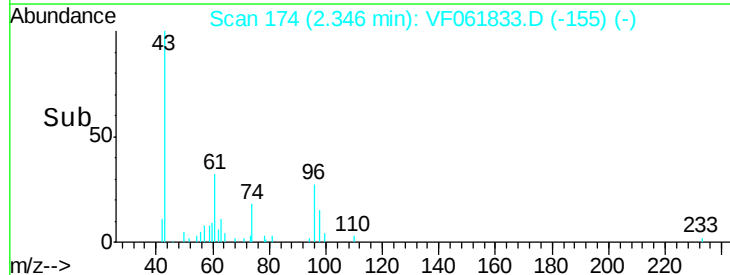
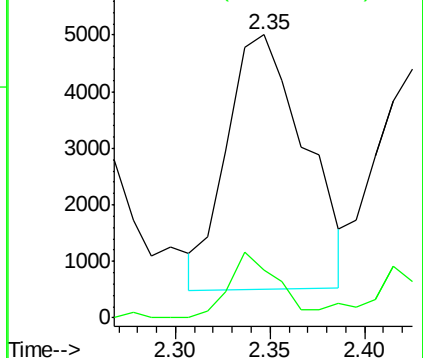
43 100

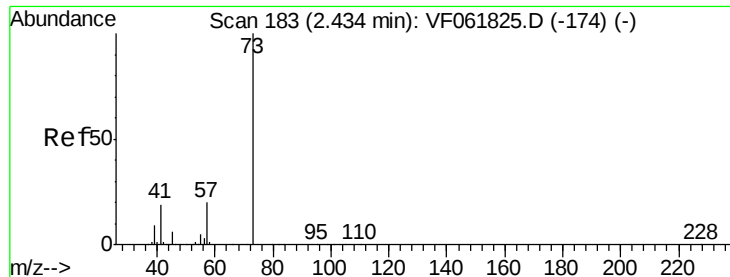
74 16.8 13.2 19.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



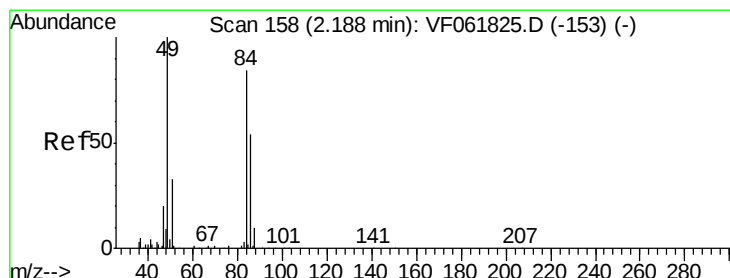
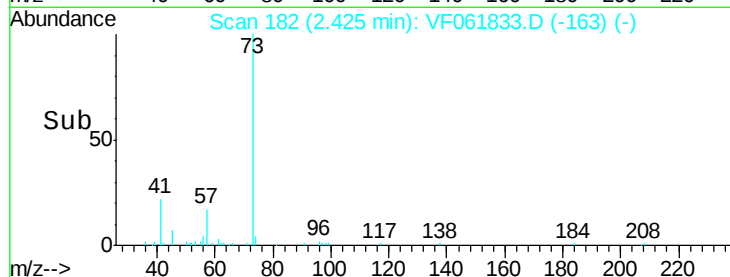
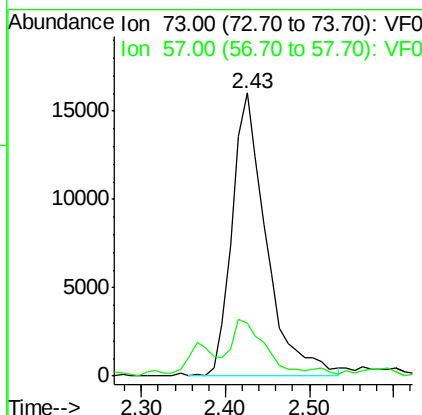
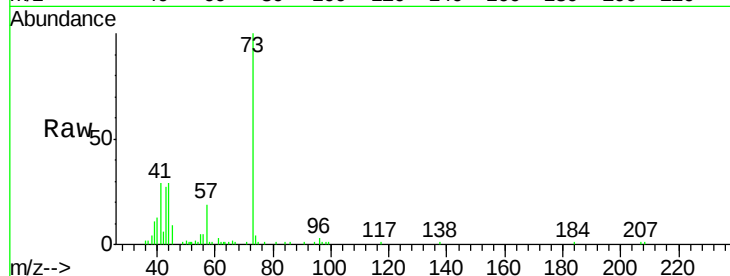


#19

Methyl tert-butyl Ether
 Concen: 10.179 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

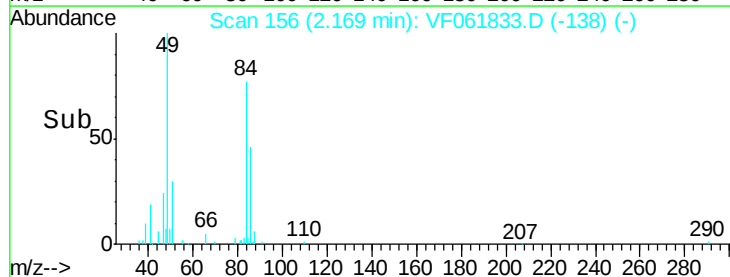
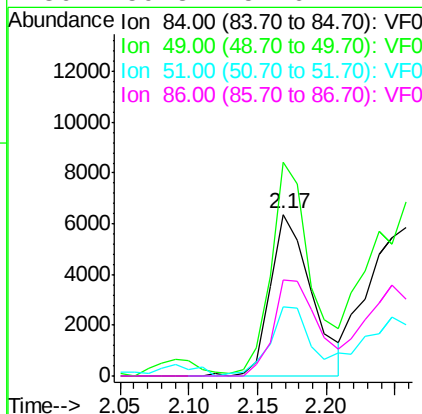
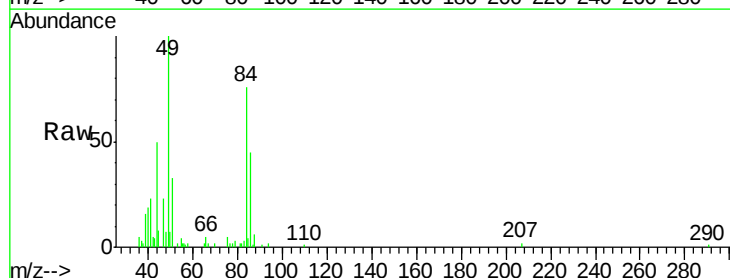
Tot Ion: 73 Resp: 45569
 Ion Ratio Lower Upper
 73 100
 57 18.7 16.1 24.1

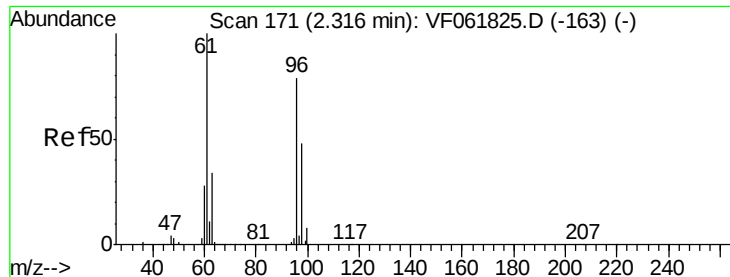


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.17 min Scan# 156
 Delta R.T. -0.02 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Tgt Ion: 84 Resp: 13225
 Ion Ratio Lower Upper
 84 100
 49 132.4 96.8 145.2
 51 43.1 31.8 47.6
 86 59.3 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 11.898 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

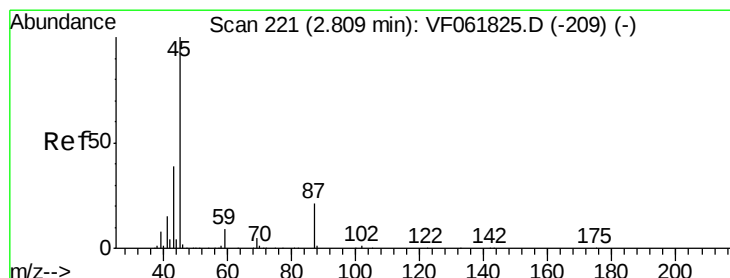
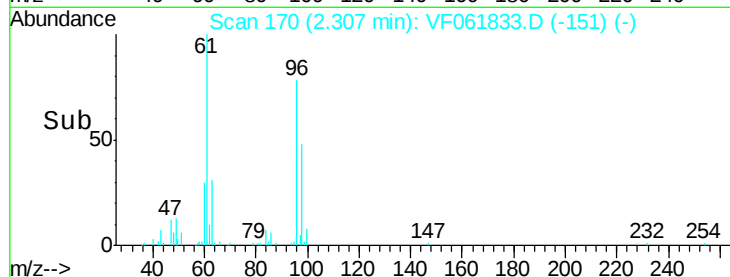
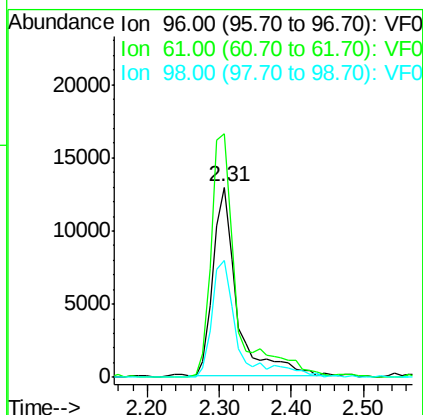
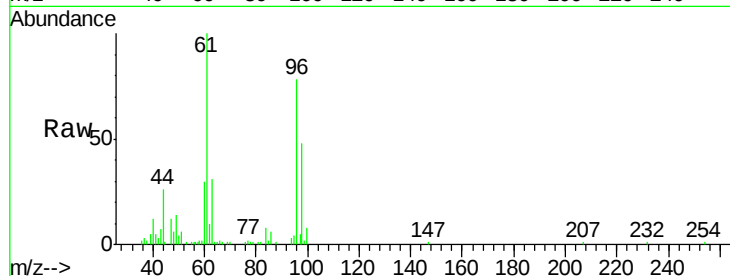
Tot Ion: 96 Resp: 29635

Ion Ratio Lower Upper

96 100

61 128.2 101.0 151.6

98 61.4 48.8 73.2



#22

Diisopropyl ether

Concen: 10.703 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Tgt Ion: 45 Resp: 81171

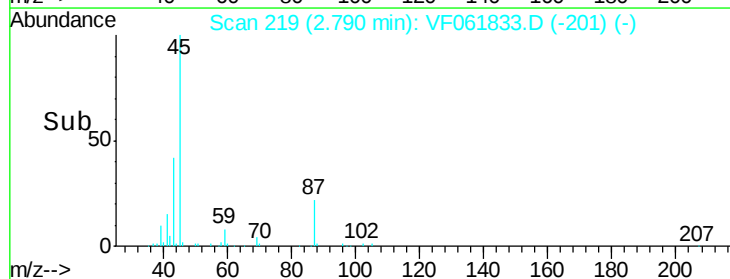
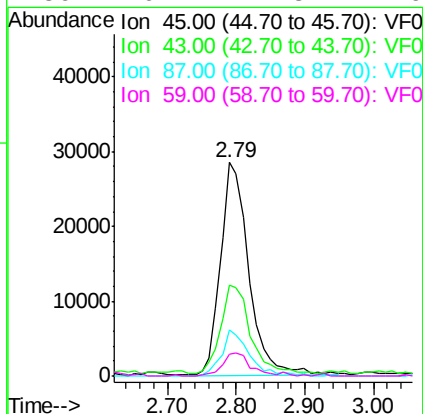
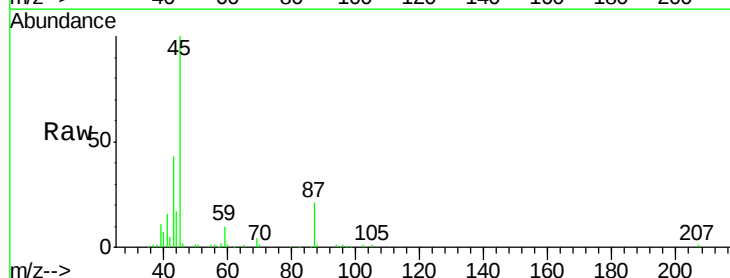
Ion Ratio Lower Upper

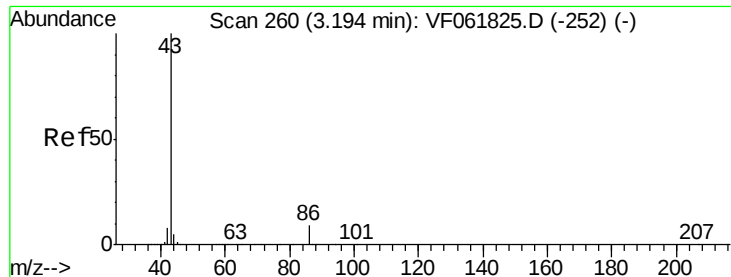
45 100

43 42.8 31.8 47.8

87 21.4 17.1 25.7

59 10.4 7.8 11.6





#23

Vinyl Acetate

Concen: 49.019 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

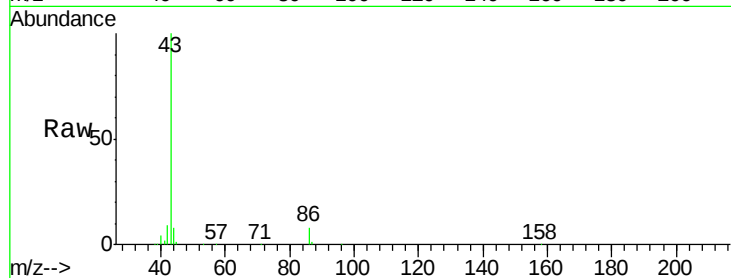
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 166079

Ion Ratio Lower Upper

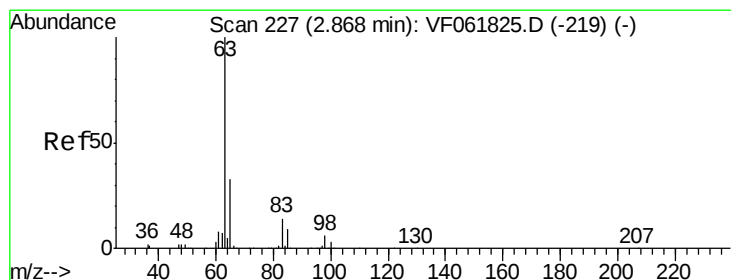
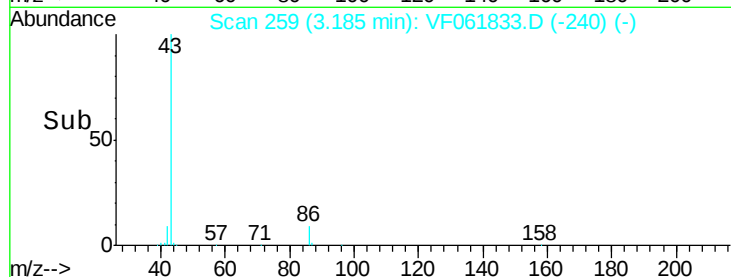
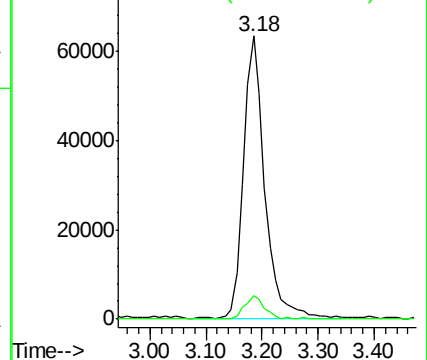
43 100

86 8.5 7.0 10.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 10.257 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.00 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

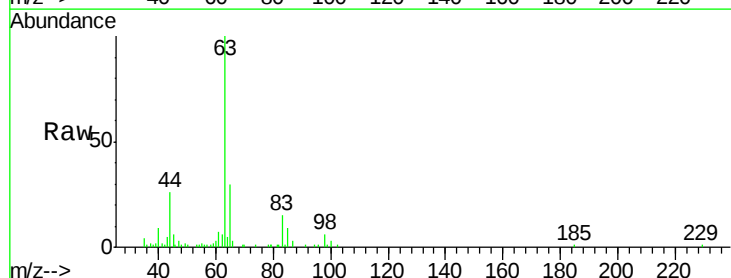
Tgt Ion: 63 Resp: 46495

Ion Ratio Lower Upper

63 100

98 5.9 2.9 8.6

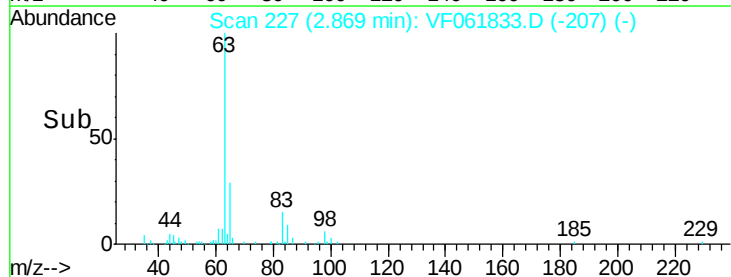
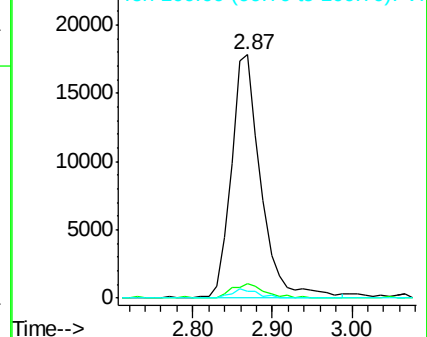
100 2.9 1.8 5.3

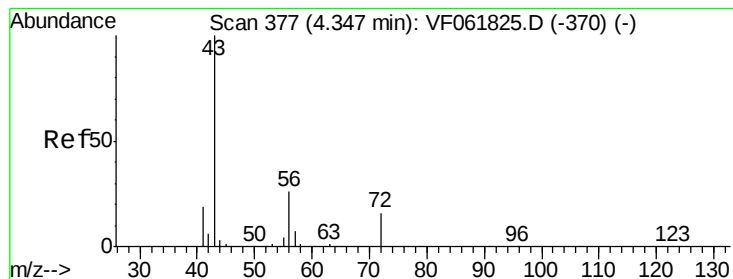


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 49.377 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

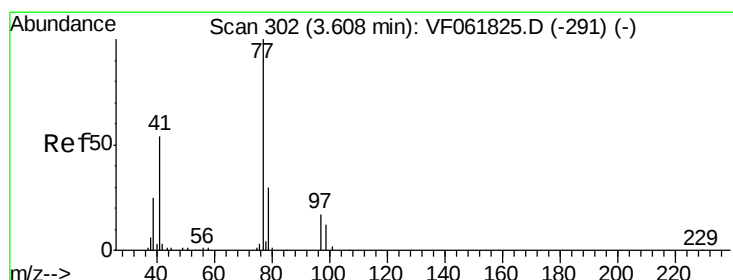
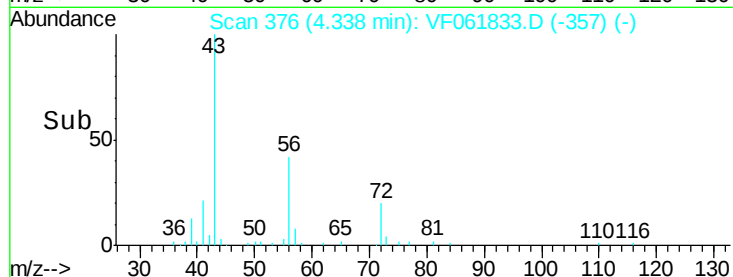
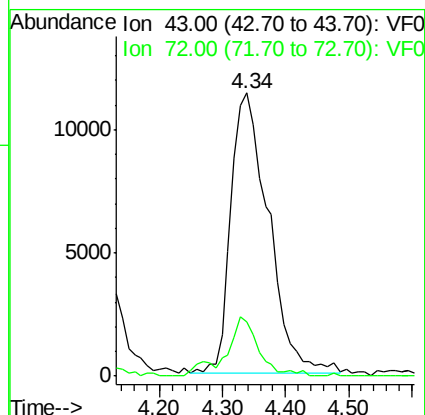
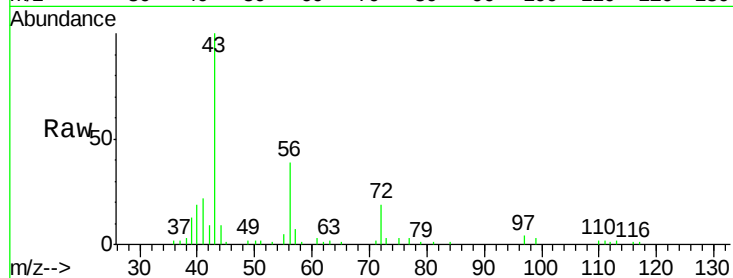
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 47410

Ion Ratio Lower Upper

43 100

72 19.0 16.2 24.4



#26

2,2-Dichloropropane

Concen: 9.039 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.02 min

Lab File: VF061833.D

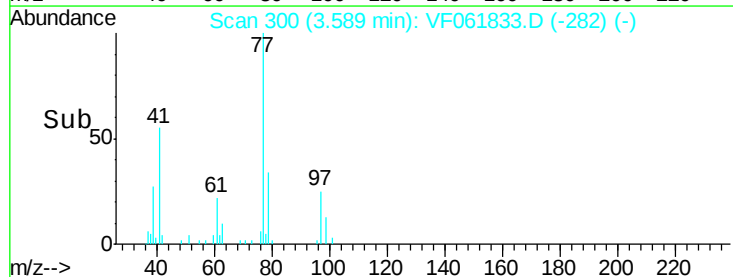
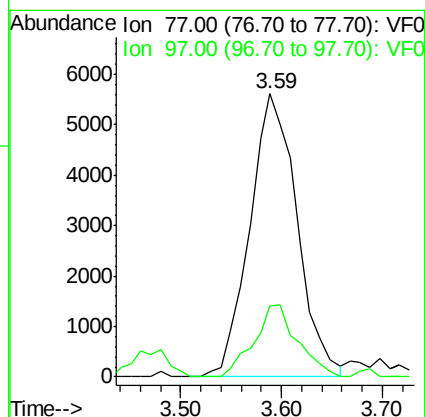
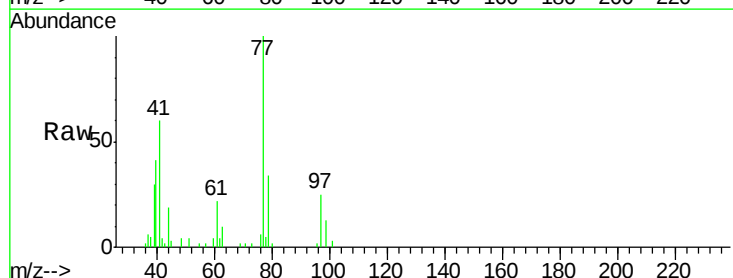
Acq: 4 Mar 2019 22:16

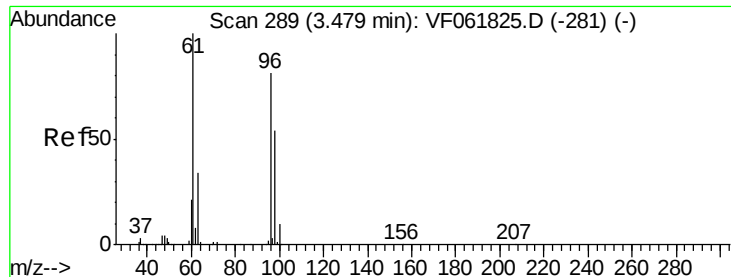
Tgt Ion: 77 Resp: 18291

Ion Ratio Lower Upper

77 100

97 25.2 10.4 31.4



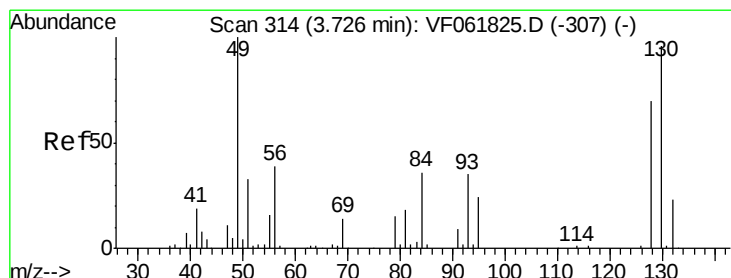
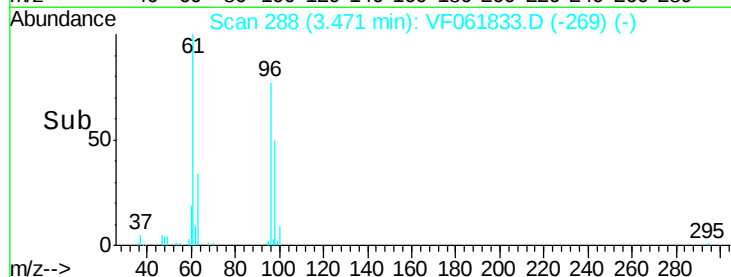
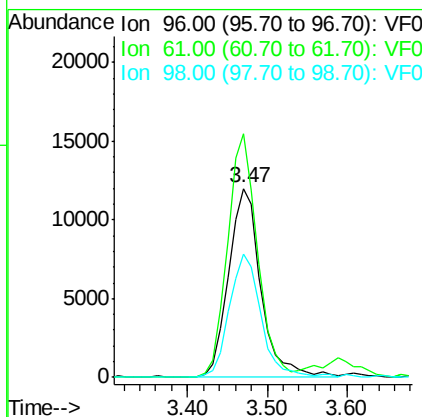
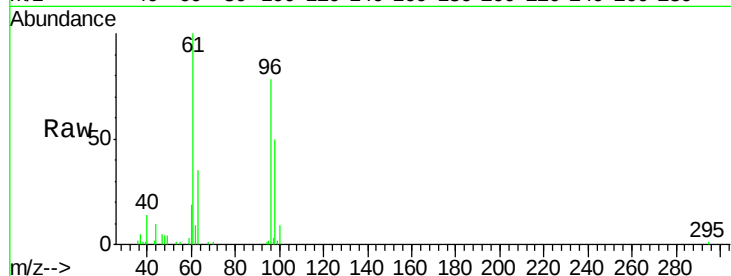


#27

cis-1,2-Dichloroethene
 Concen: 9.876 ug/l
 RT: 3.47 min Scan# 288
 Delta R.T. -0.01 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

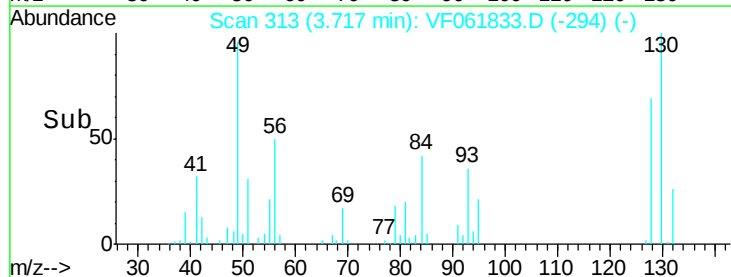
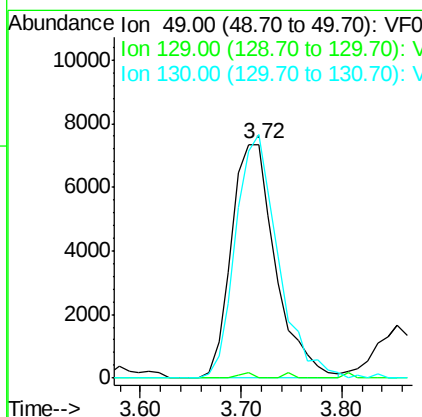
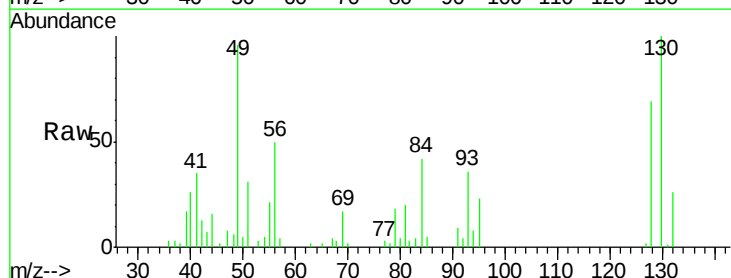
Tot Ion: 96 Resp: 34080
 Ion Ratio Lower Upper
 96 100
 61 128.8 0.0 245.8
 98 64.9 0.0 132.6

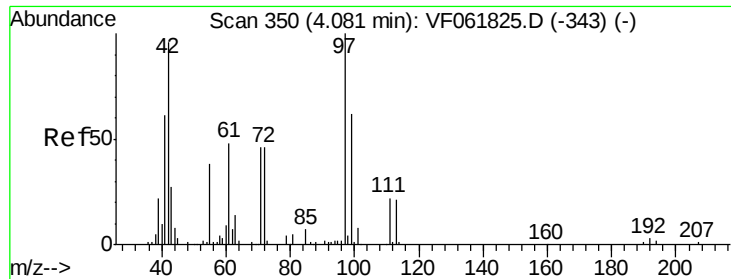


#28

Bromochloromethane
 Concen: 11.337 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Tgt Ion: 49 Resp: 22402
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 0.0
 130 104.3 76.9 115.3

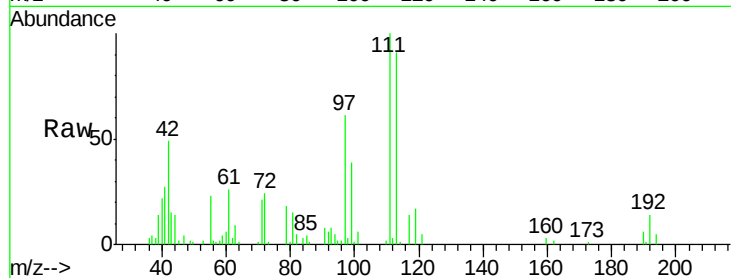




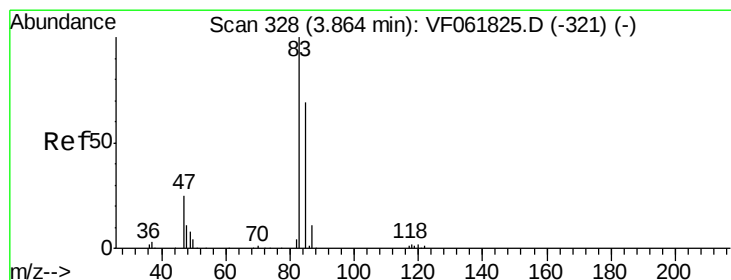
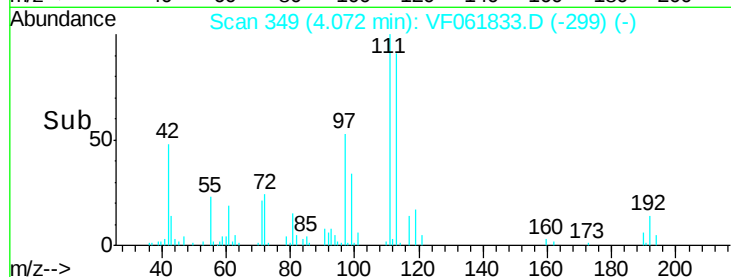
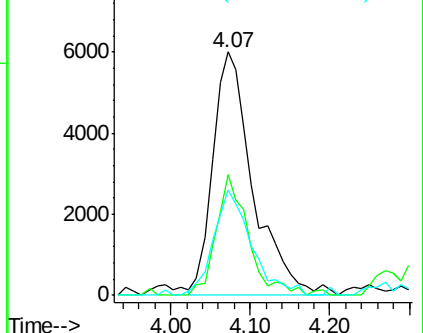
#29
Tetrahydrofuran
Concen: 51.390 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion: 42 Resp: 21280
Ion Ratio Lower Upper
42 100
72 39.5 34.4 51.6
71 40.6 34.6 52.0

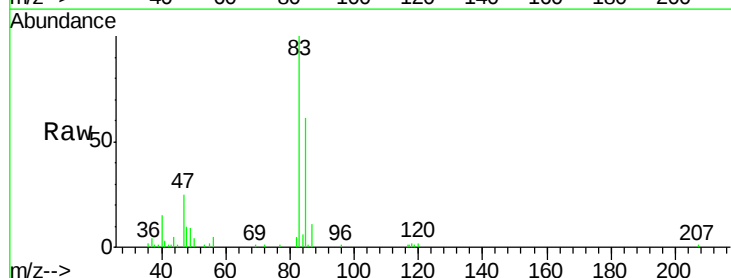


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

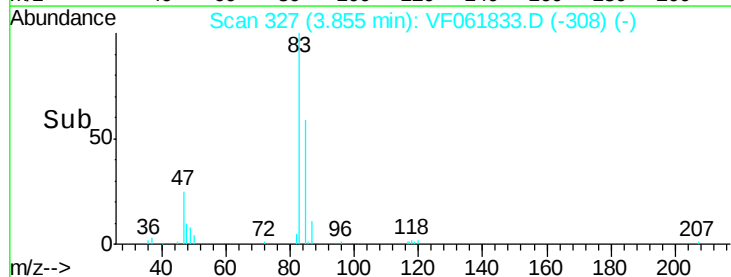
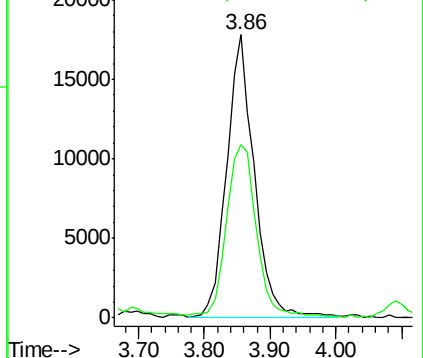


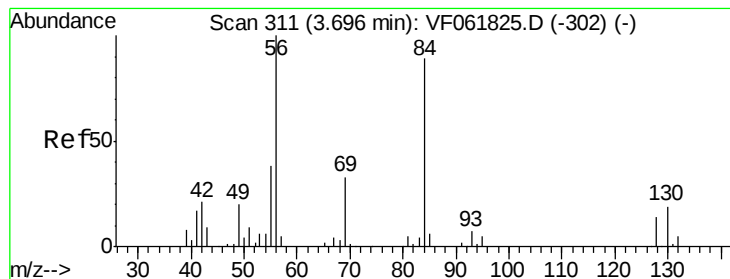
#30
Chloroform
Concen: 10.156 ug/l
RT: 3.86 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 83 Resp: 52587
Ion Ratio Lower Upper
83 100
85 61.3 55.3 82.9



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





#31

Cyclohexane

Concen: 6.117 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.02 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

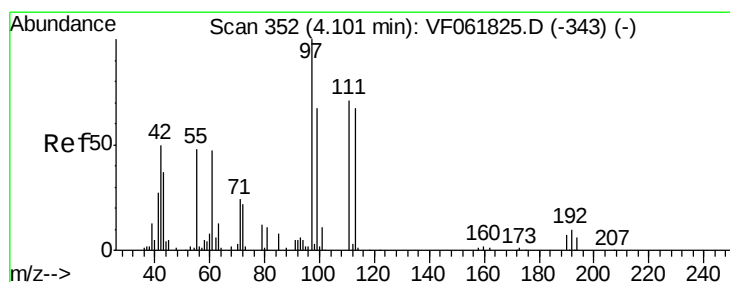
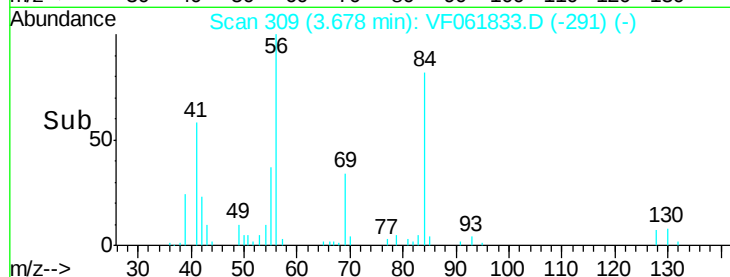
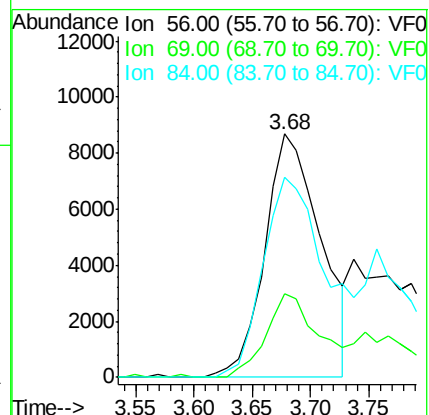
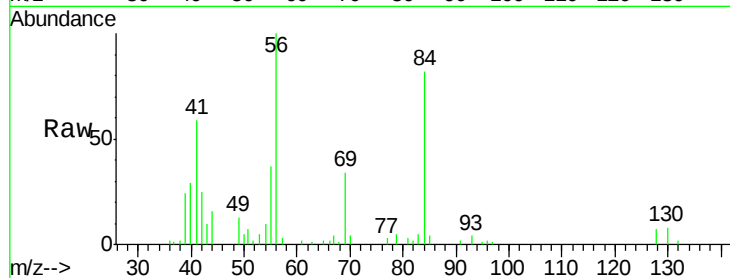
Tot Ion: 56 Resp: 29041

Ion Ratio Lower Upper

56 100

69 34.3 26.0 39.0

84 82.0 71.0 106.6



#32

1,1,1-Trichloroethane

Concen: 10.191 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

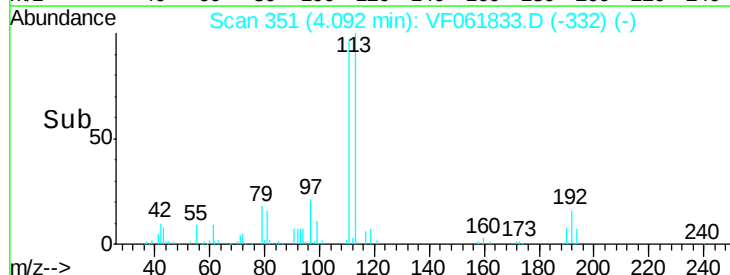
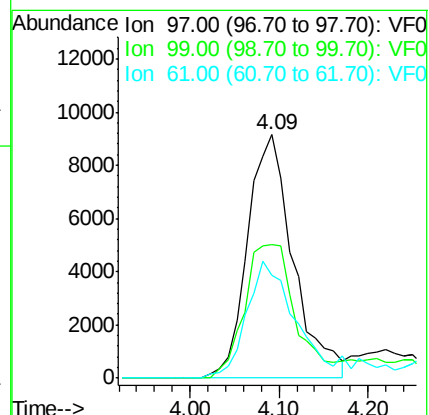
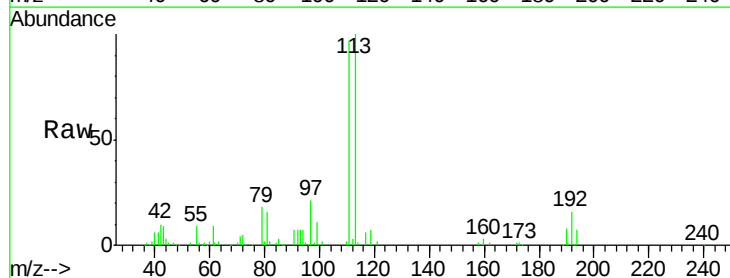
Tgt Ion: 97 Resp: 32523

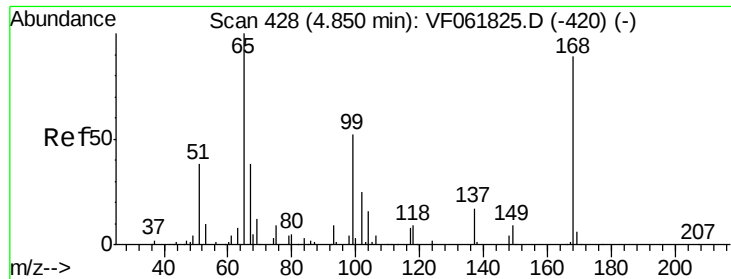
Ion Ratio Lower Upper

97 100

99 54.7 53.8 80.8

61 42.0 37.9 56.9





#33

1,2-Dichloroethane-d4

Concen: 57.012 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

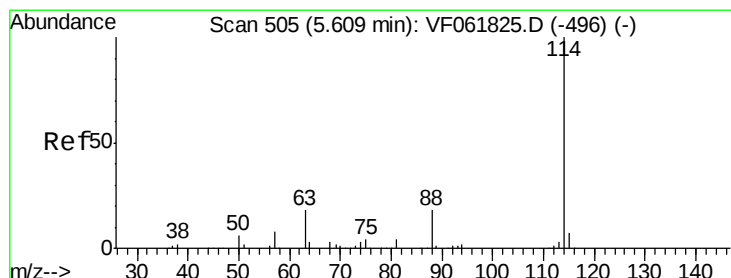
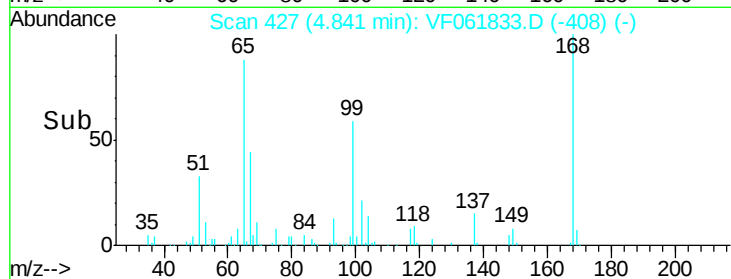
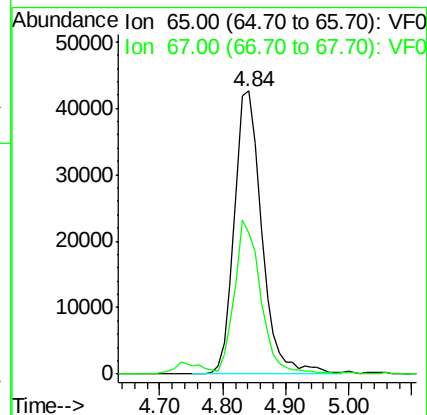
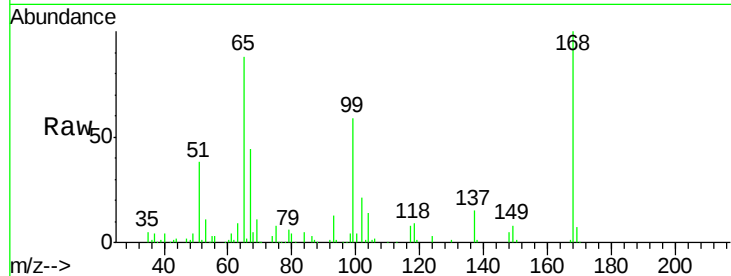
LOQ-SOIL-02-QT1-2019

Tot Ion: 65 Resp: 128475

Ion Ratio Lower Upper

65 100

67 49.9 0.0 108.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

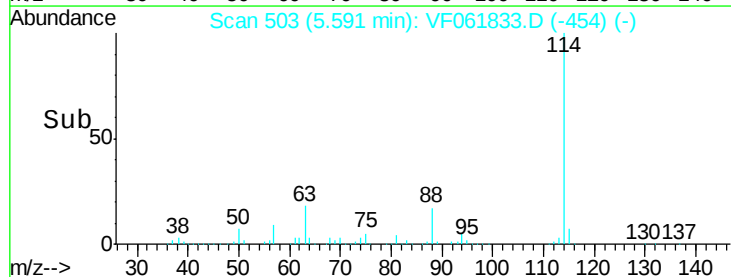
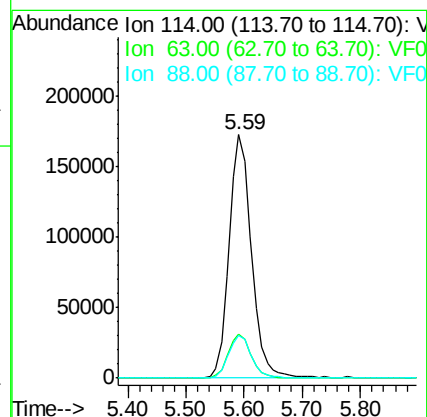
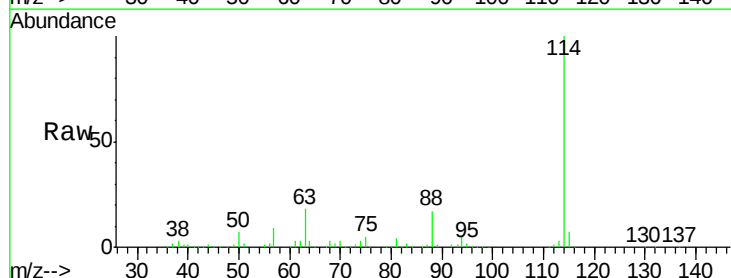
Tgt Ion: 114 Resp: 461572

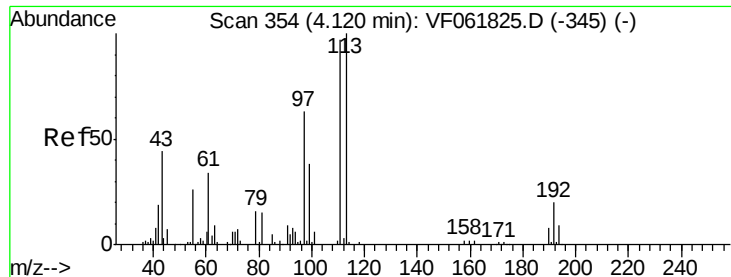
Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.6

88 17.4 0.0 35.6

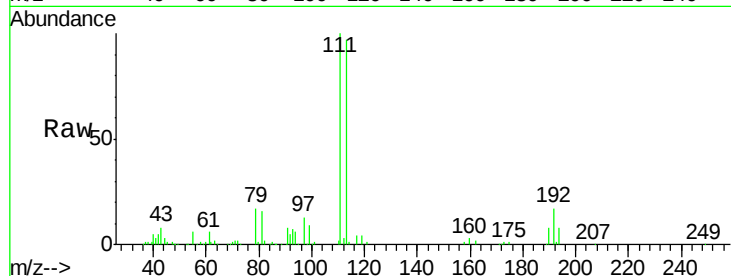




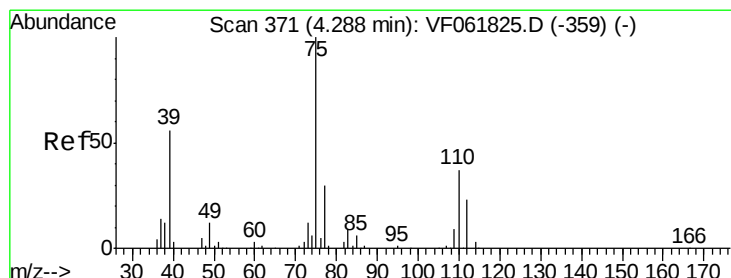
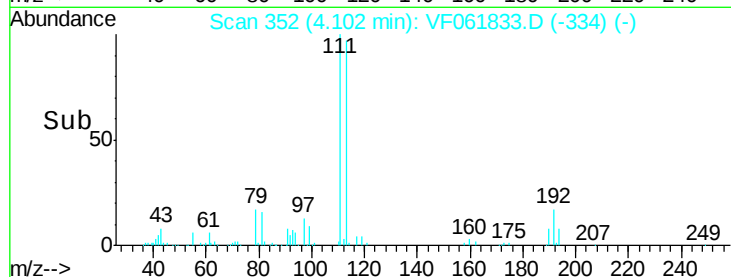
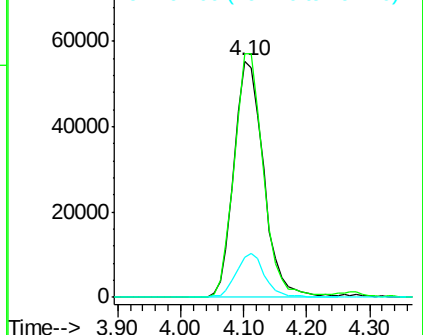
#35
 Dibromofluoromethane
 Concen: 56.210 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.02 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

Tot Ion:113 Resp: 181063
 Ion Ratio Lower Upper
 113 100
 111 103.1 77.6 116.4
 192 17.7 15.9 23.9

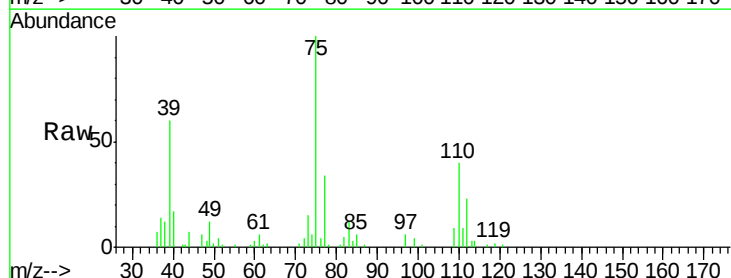


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

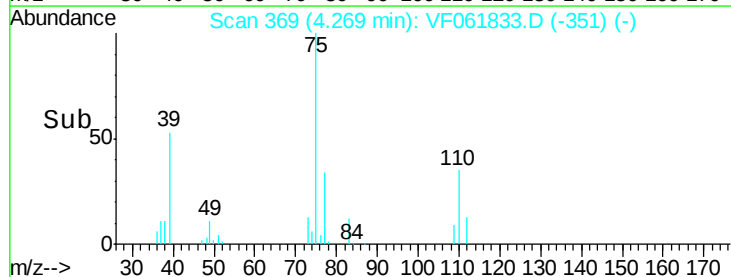
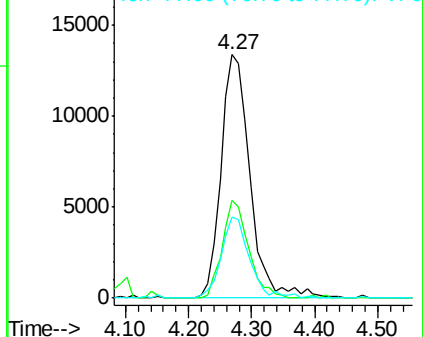


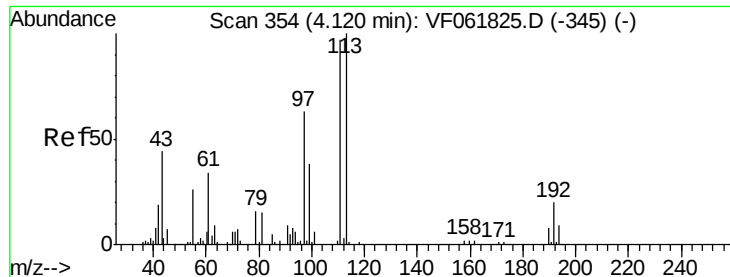
#36
 1,1-Dichloropropene
 Concen: 9.823 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. -0.02 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Tgt Ion: 75 Resp: 42829
 Ion Ratio Lower Upper
 75 100
 110 40.3 18.6 55.6
 77 33.5 24.2 36.2



Abundance Ion 75.00 (74.70 to 75.70): VF0
 Ion 110.00 (109.70 to 110.70): V
 Ion 77.00 (76.70 to 77.70): VF0

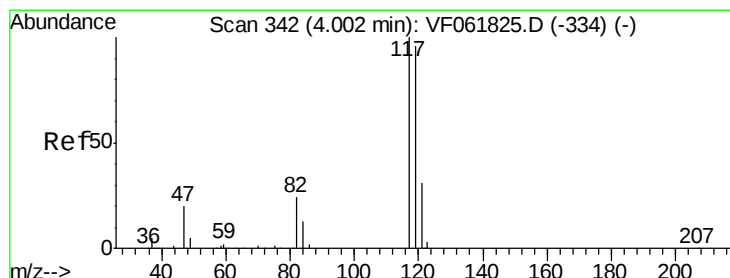
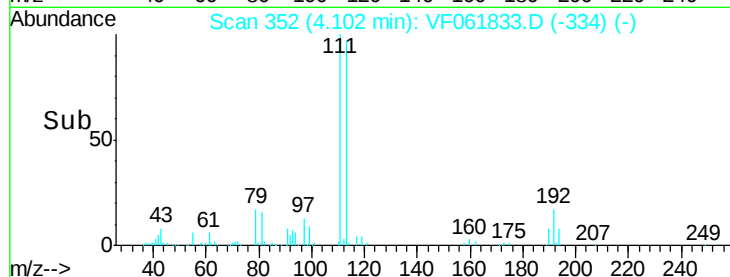
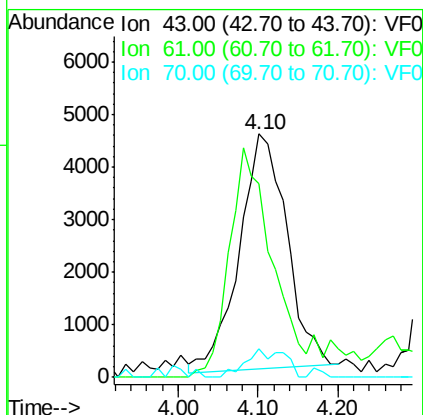
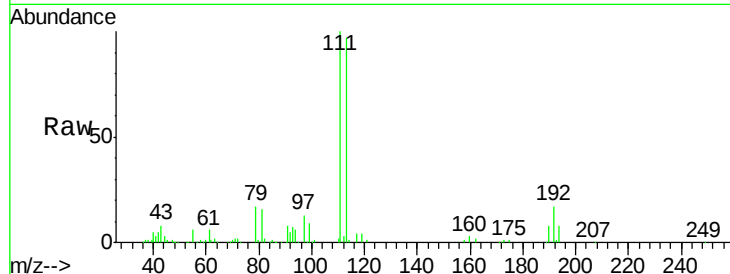




#37
Ethyl Acetate
Concen: 10.122 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.02 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

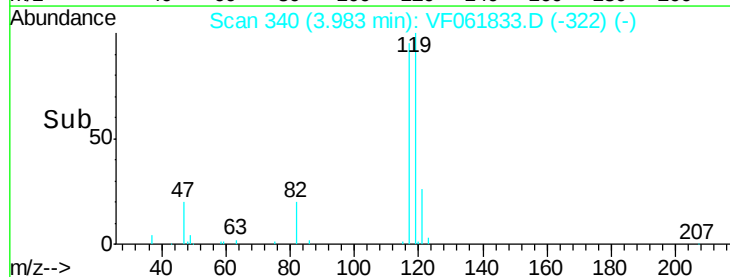
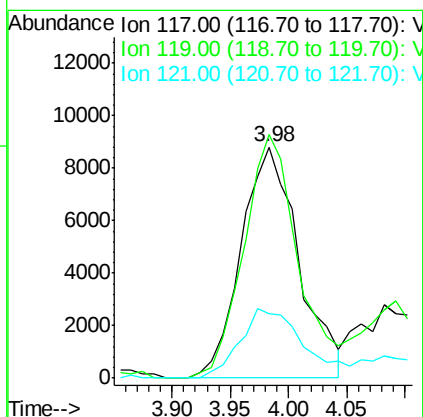
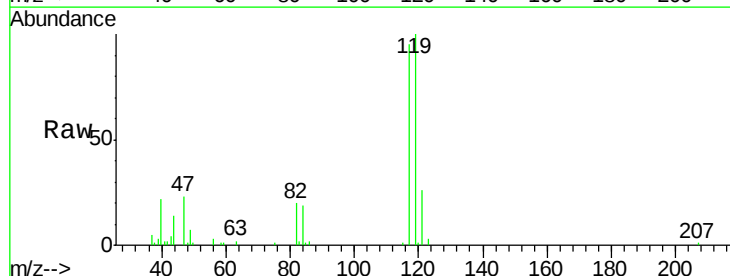
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

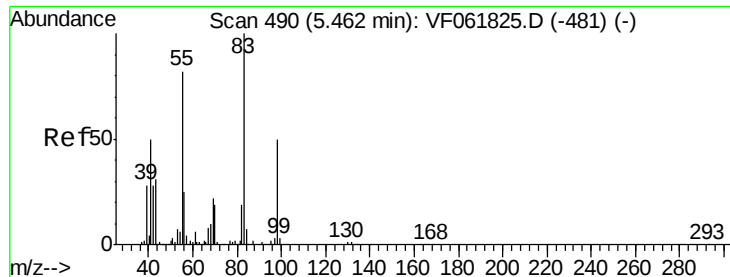
Tot Ion: 43 Resp: 18524
Ion Ratio Lower Upper
43 100
61 79.5 60.7 91.1
70 11.6 10.6 15.8



#38
Carbon Tetrachloride
Concen: 9.784 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 117 Resp: 30197
Ion Ratio Lower Upper
117 100
119 105.4 76.6 114.8
121 27.8 24.4 36.6

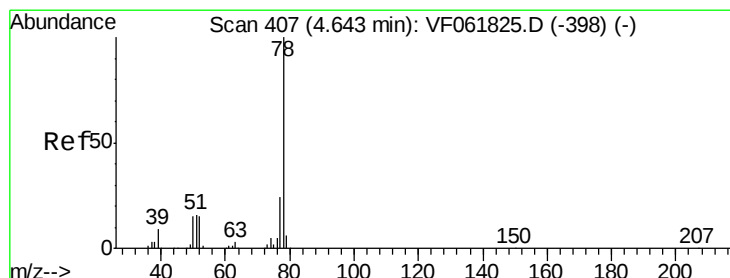
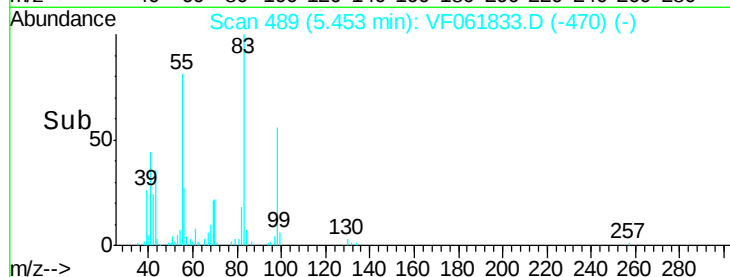
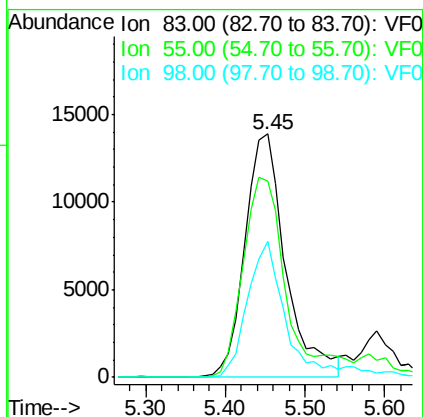
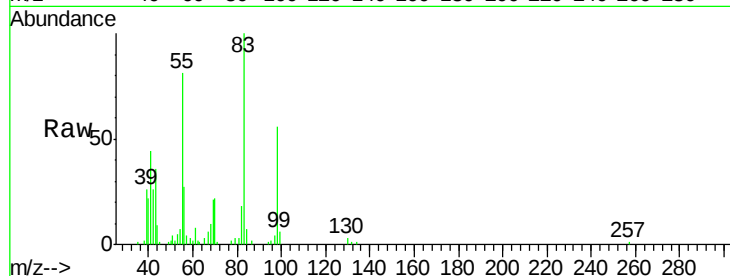




#39
Methvlcvclohexane
Concen: 9.552 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

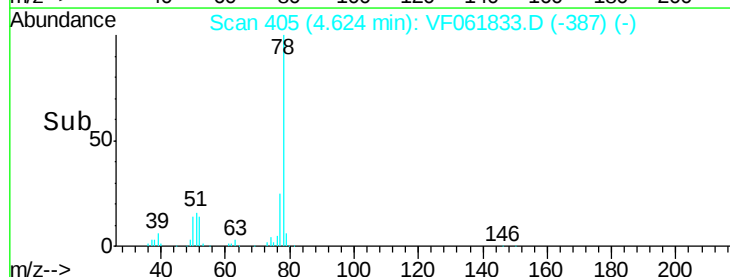
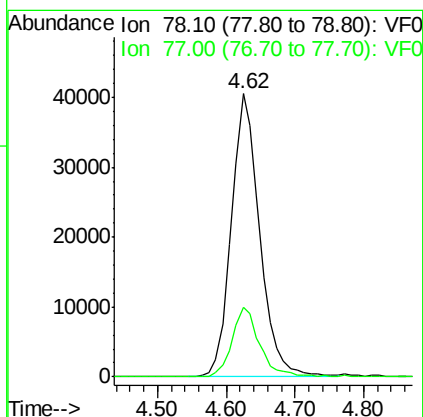
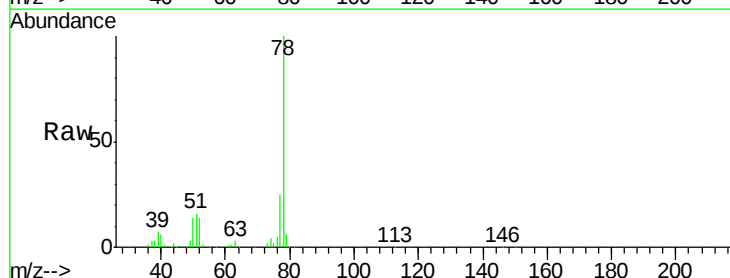
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

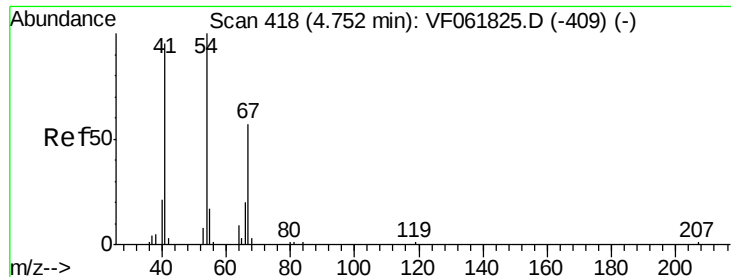
Tot Ion: 83 Resp: 49194
Ion Ratio Lower Upper
83 100
55 80.7 66.0 99.0
98 55.9 39.8 59.6



#40
Benzene
Concen: 10.140 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 78 Resp: 115568
Ion Ratio Lower Upper
78 100
77 24.8 19.5 29.3

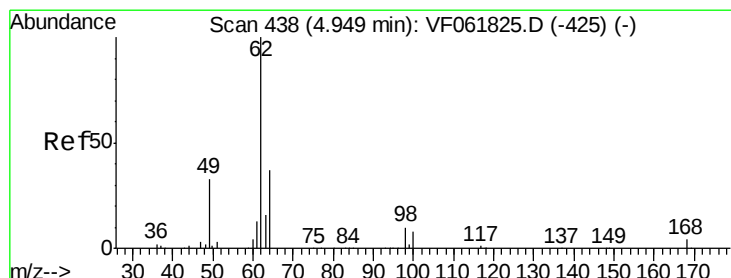
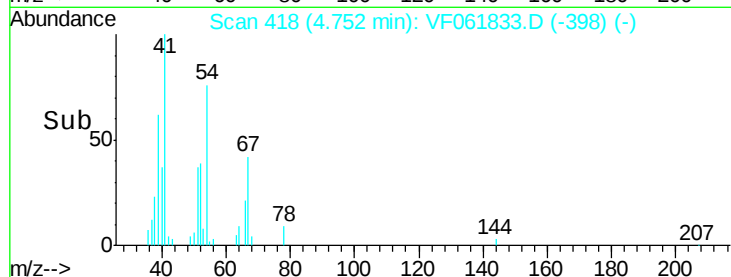
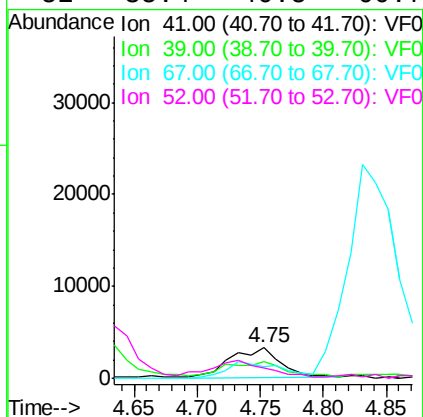
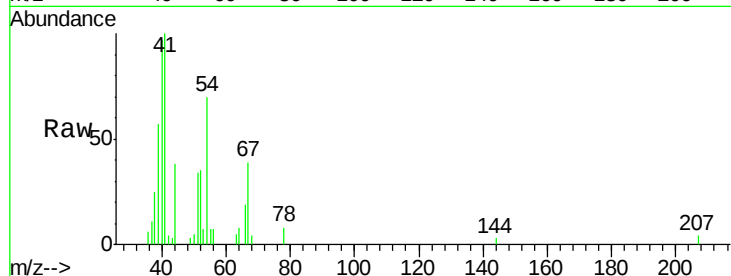




#41
Methacrylonitrile
Concen: 9.007 ug/l
RT: 4.75 min Scan# 418
Delta R.T. 0.00 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

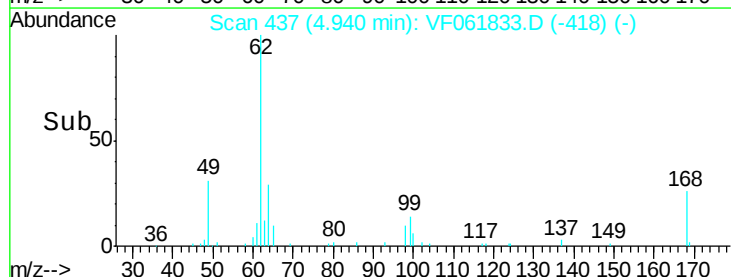
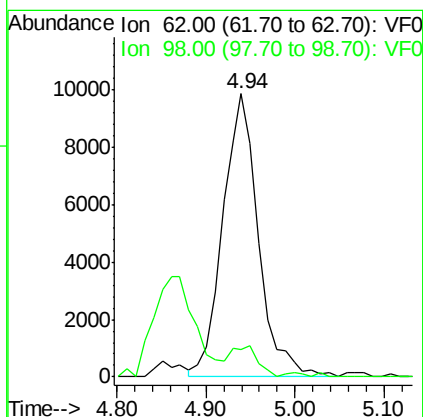
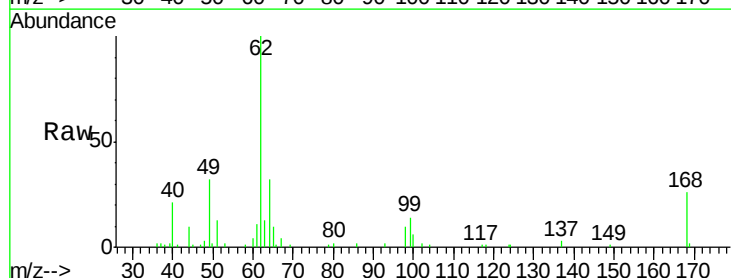
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

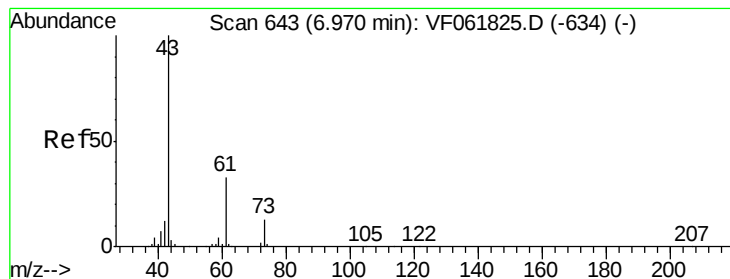
Tot Ion: 41 Resp: 9031
Ion Ratio Lower Upper
41 100
39 57.0 43.0 64.6
67 38.6 47.8 71.8#
52 35.4 40.5 60.7#



#42
1,2-Dichloroethane
Concen: 9.699 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 62 Resp: 27548
Ion Ratio Lower Upper
62 100
98 9.7 0.0 21.0





#43

Isopropyl Acetate

Concen: 9.660 ug/l

RT: 6.96 min Scan# 642

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

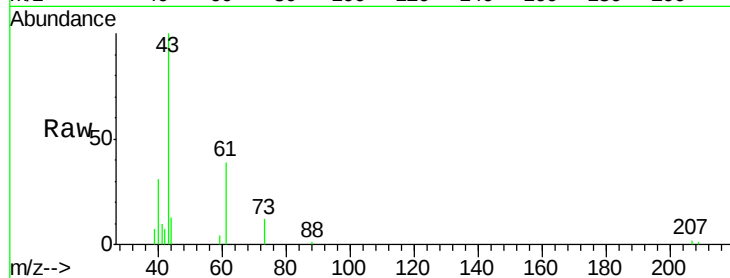
Tot Ion: 43 Resp: 21792

Ion Ratio Lower Upper

43 100

61 39.1 26.1 39.1#

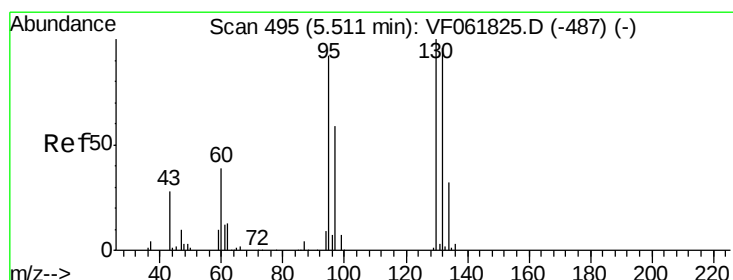
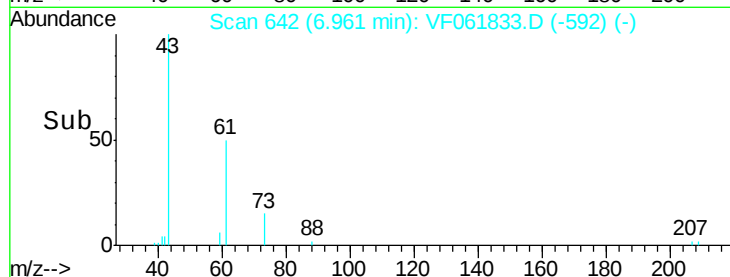
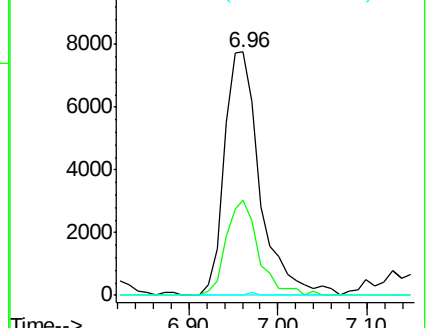
87 0.0 0.0 0.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 10.188 ug/l

RT: 5.49 min Scan# 493

Delta R.T. -0.02 min

Lab File: VF061833.D

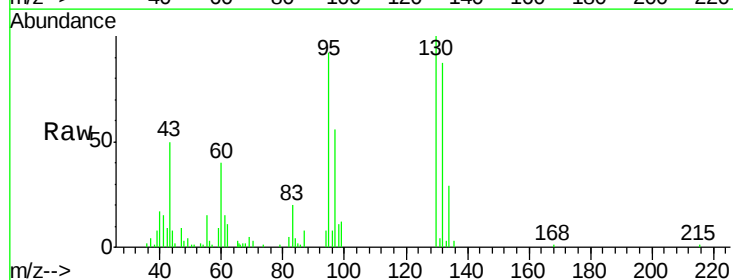
Acq: 4 Mar 2019 22:16

Tgt Ion:130 Resp: 36083

Ion Ratio Lower Upper

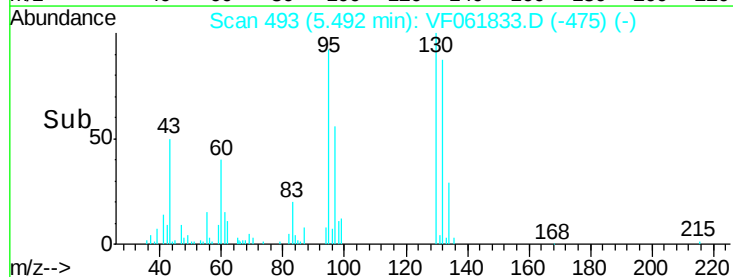
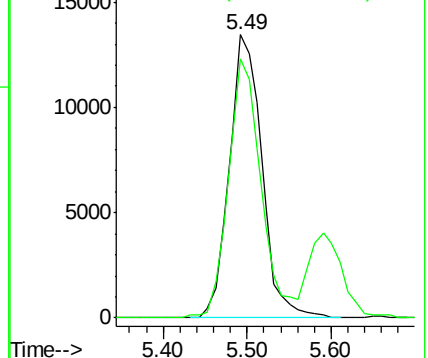
130 100

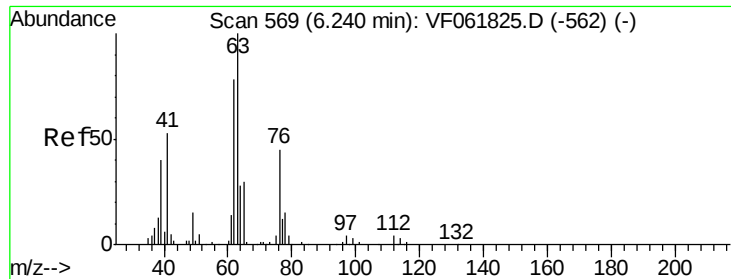
95 91.7 0.0 184.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 9.638 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

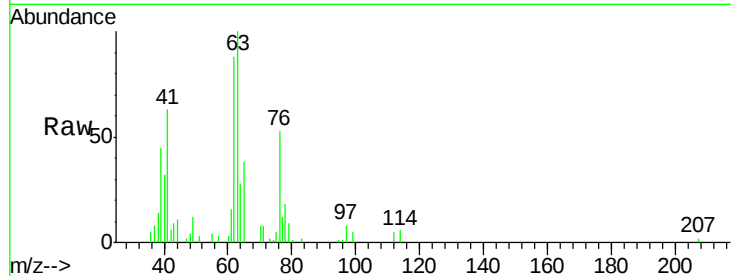
LOQ-SOIL-02-QT1-2019

Tot Ion: 63 Resp: 26119

Ion Ratio Lower Upper

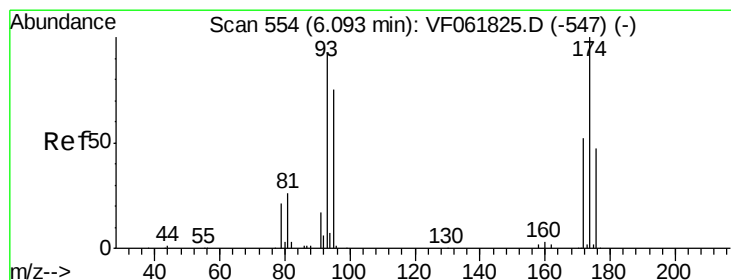
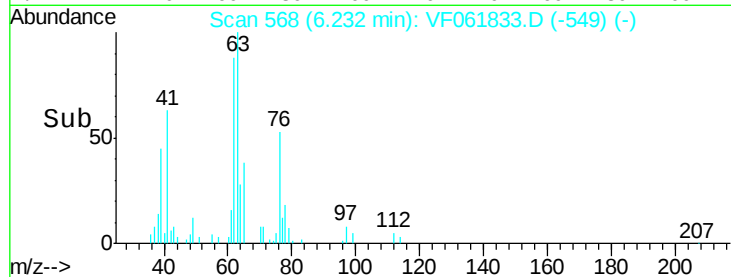
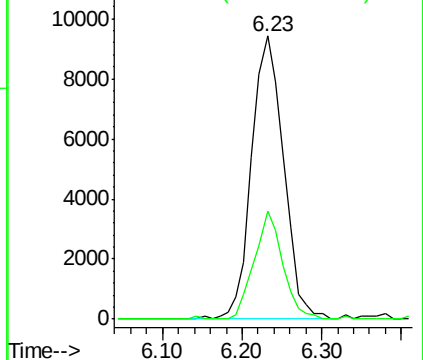
63 100

65 38.4 24.0 36.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 9.270 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.02 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

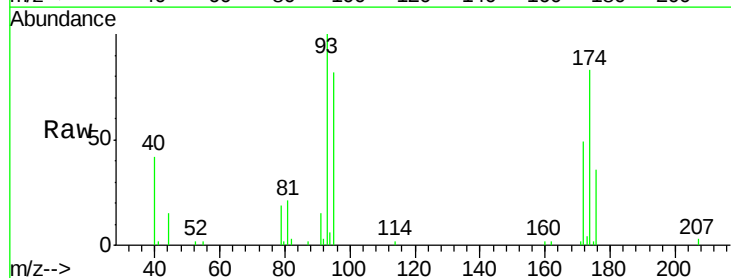
Tgt Ion: 93 Resp: 15811

Ion Ratio Lower Upper

93 100

95 82.0 64.4 96.6

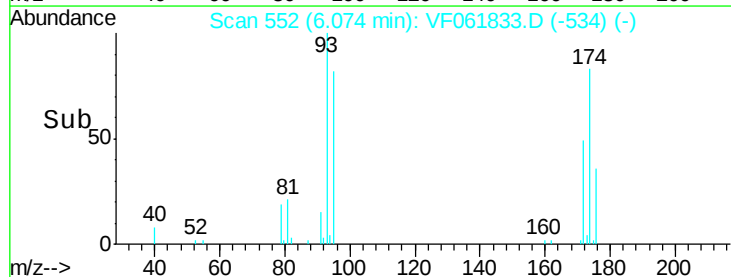
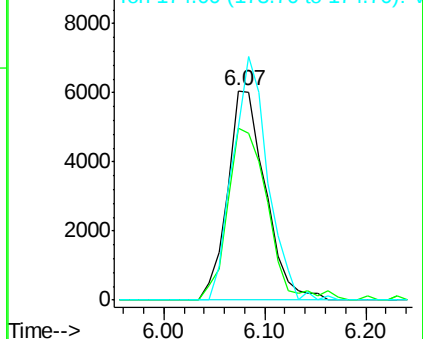
174 82.7 85.8 128.6#

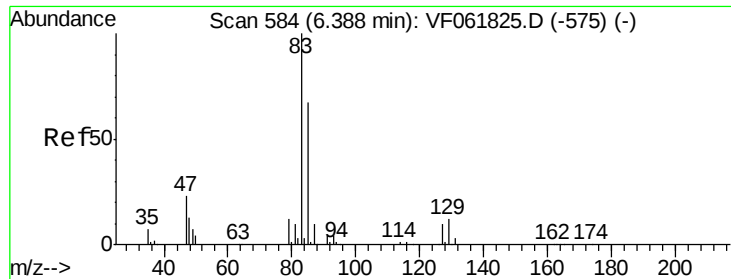


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 9.695 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

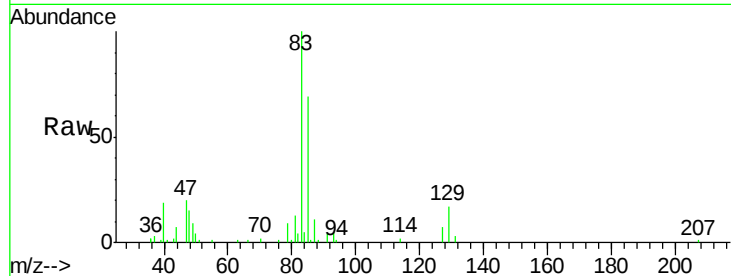
Tot Ion: 83 Resp: 36531

Ion Ratio Lower Upper

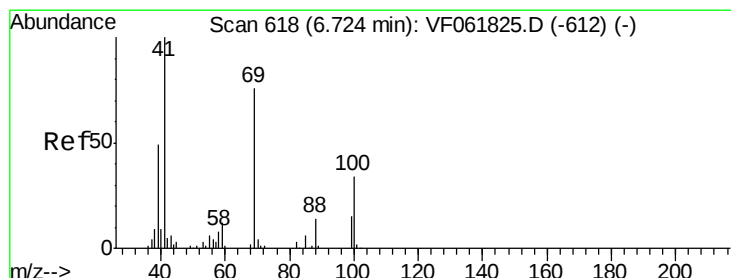
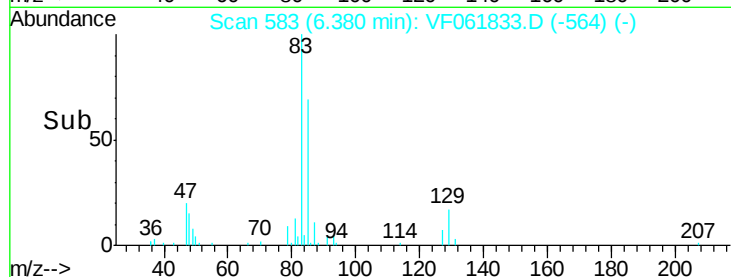
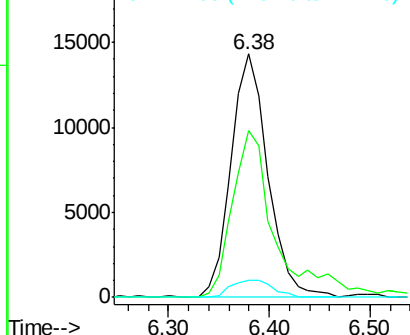
83 100

85 68.6 53.6 80.4

127 7.2 8.1 12.1#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 9.217 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

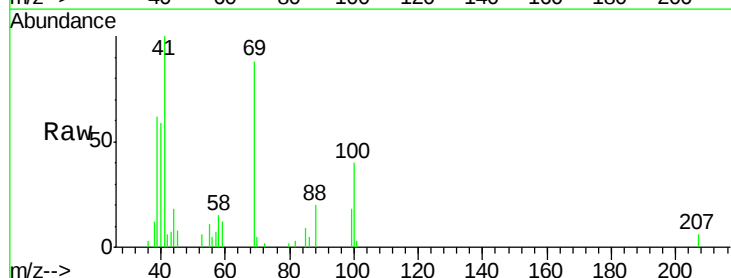
Tgt Ion: 41 Resp: 13159

Ion Ratio Lower Upper

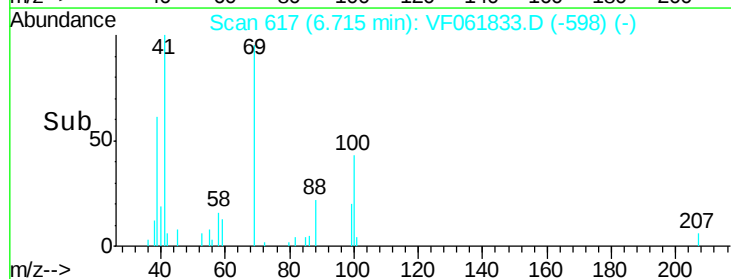
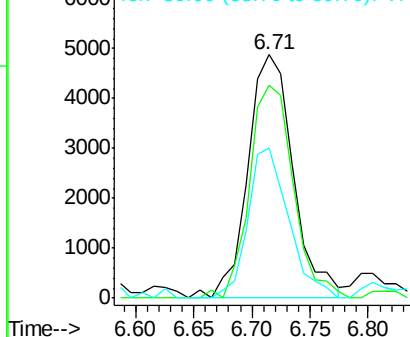
41 100

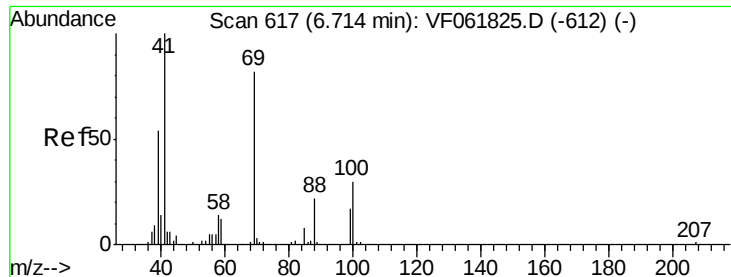
69 87.6 60.4 90.6

39 61.7 39.7 59.5#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

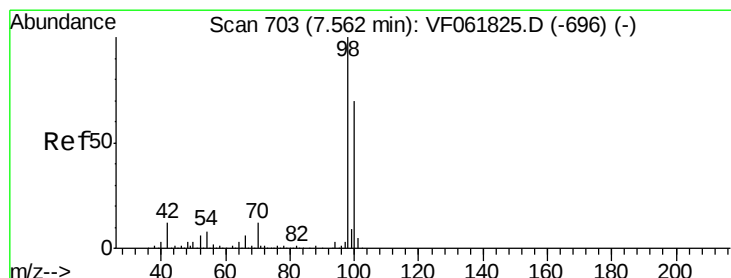
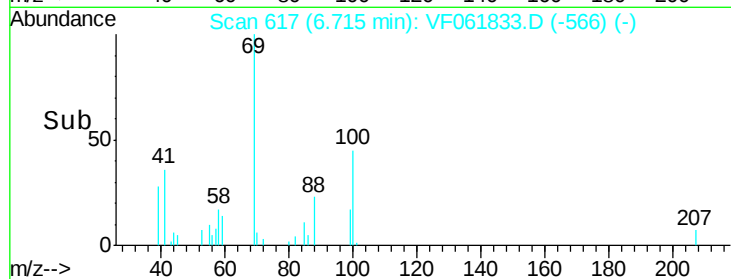
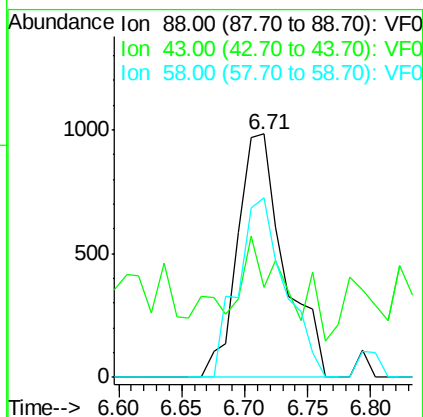
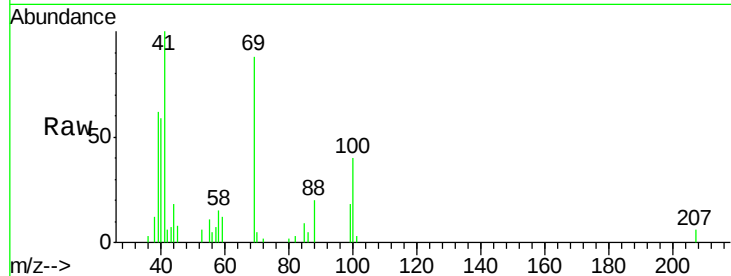




#49
1,4-Dioxane
Concen: 194.543 ug/l
RT: 6.71 min Scan# 617
Delta R.T. 0.00 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

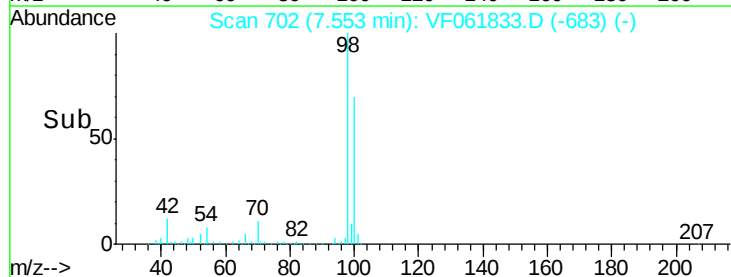
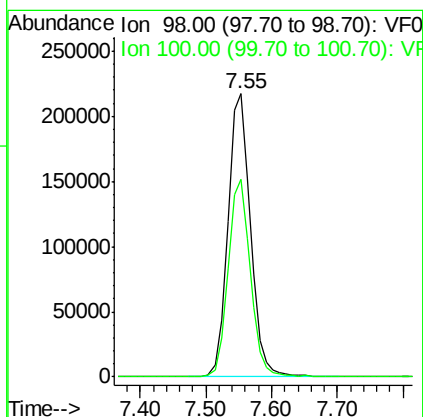
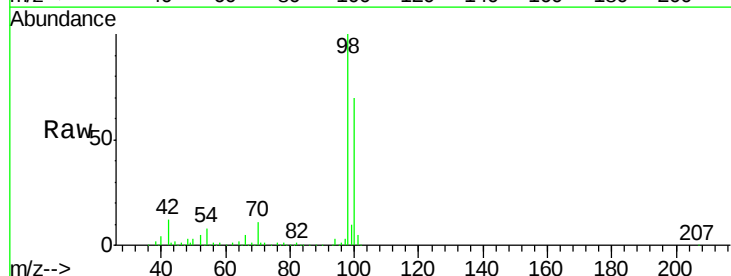
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

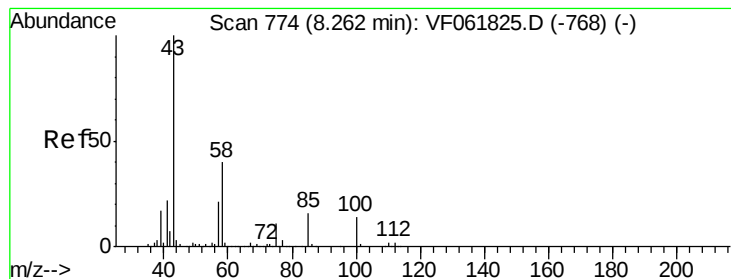
Tot Ion: 88 Resp: 2539
Ion Ratio Lower Upper
88 100
43 37.1 28.4 42.6
58 73.8 50.7 76.1



#50
Toluene-d8
Concen: 54.627 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 98 Resp: 523018
Ion Ratio Lower Upper
98 100
100 69.7 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 52.031 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

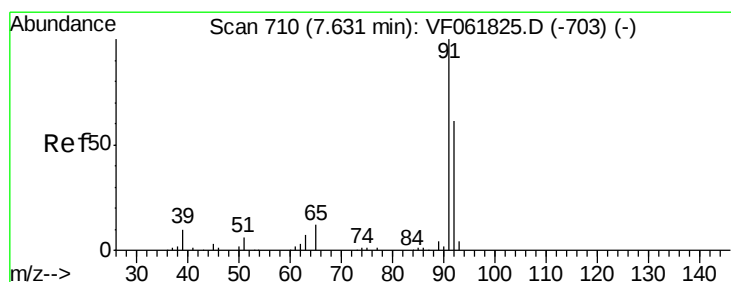
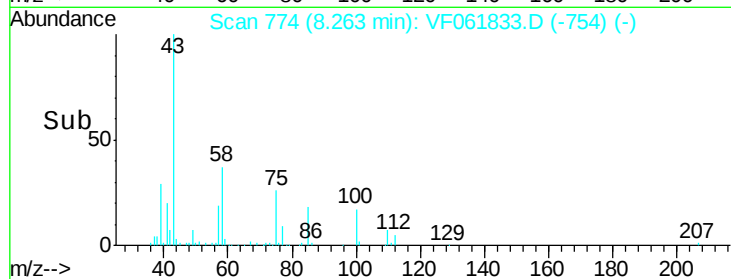
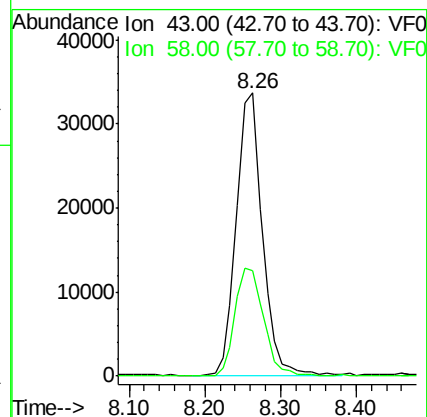
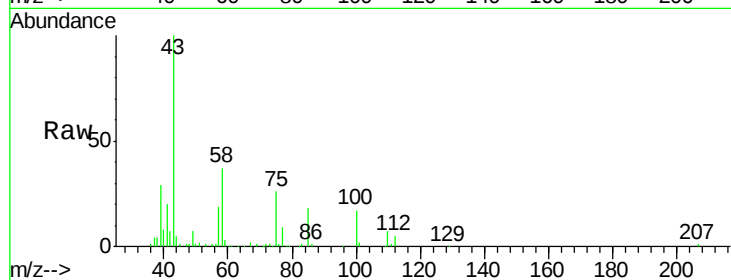
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 81122

Ion Ratio Lower Upper

43 100

58 37.2 31.8 47.8



#52

Toluene

Concen: 9.881 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061833.D

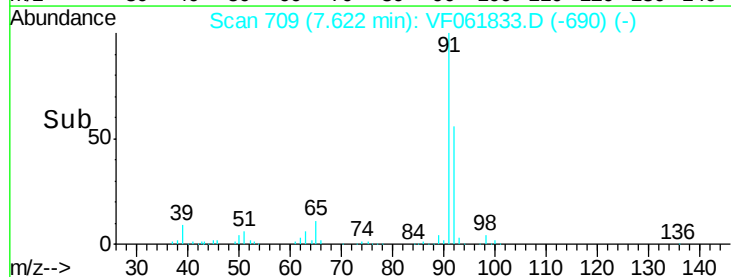
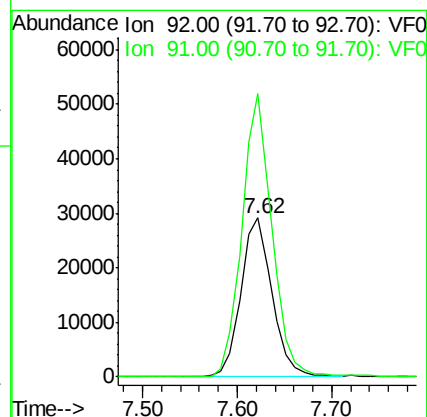
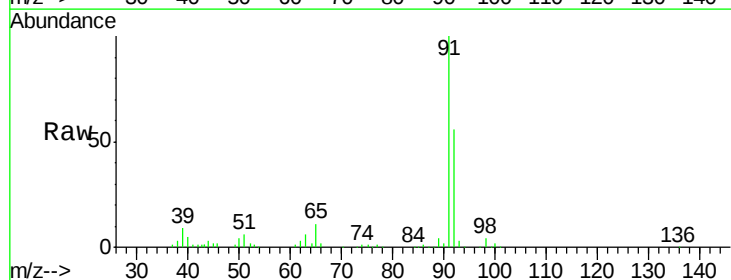
Acq: 4 Mar 2019 22:16

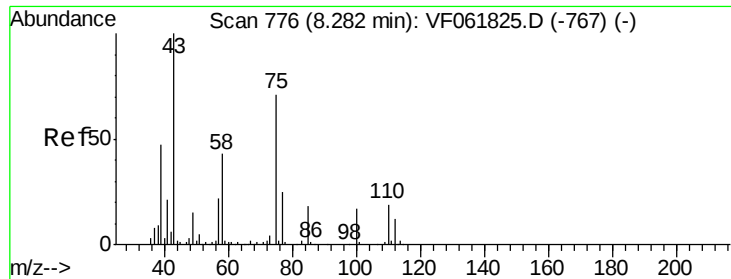
Tgt Ion: 92 Resp: 66618

Ion Ratio Lower Upper

92 100

91 178.2 132.0 198.0

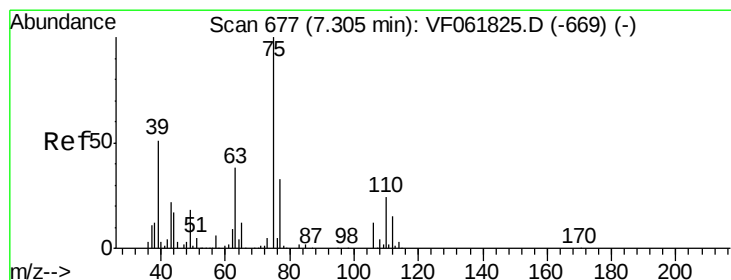
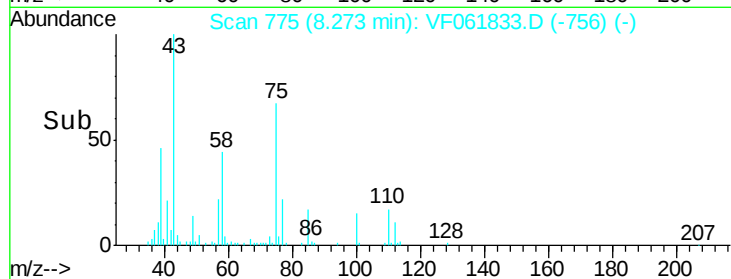
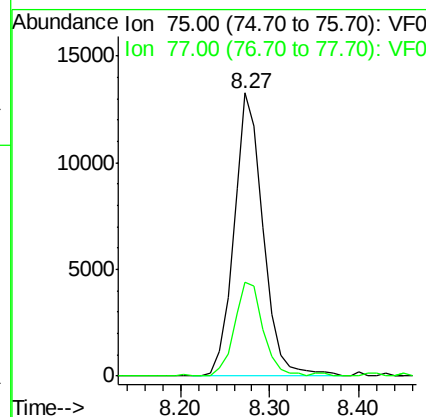
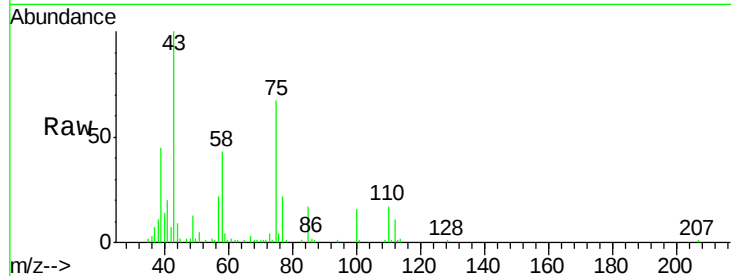




#53
 t-1,3-Dichloropropene
 Concen: 9.729 ug/l
 RT: 8.27 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

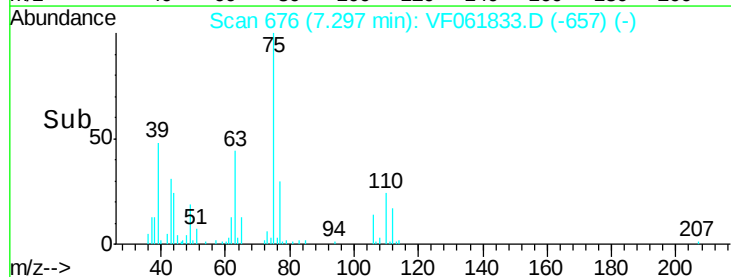
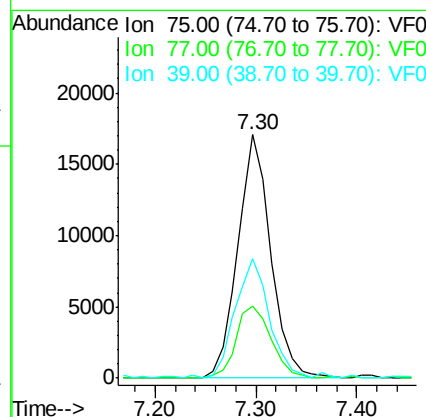
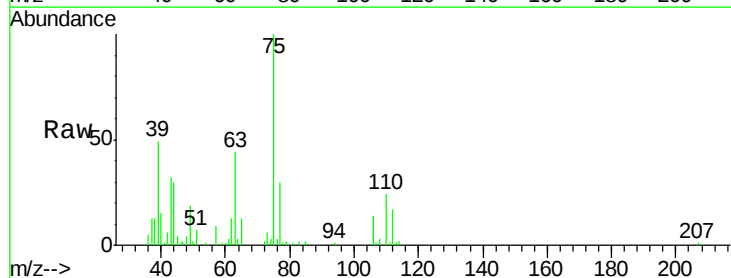
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

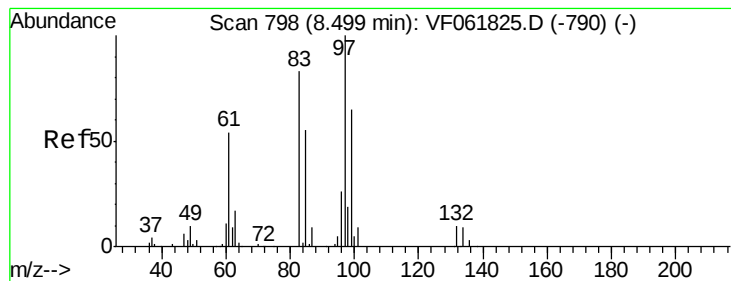
Tot Ion: 75 Resp: 30262
 Ion Ratio Lower Upper
 75 100
 77 33.4 28.0 42.0



#54
 cis-1,3-Dichloropropene
 Concen: 9.073 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. -0.01 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Tgt Ion: 75 Resp: 38927
 Ion Ratio Lower Upper
 75 100
 77 29.6 26.3 39.5
 39 49.2 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 10.143 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 97 Resp: 19704

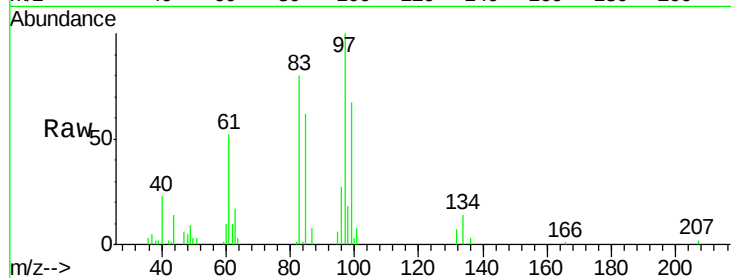
Ion Ratio Lower Upper

97 100

83 80.5 66.5 99.7

85 61.7 44.2 66.2

99 66.5 51.8 77.6

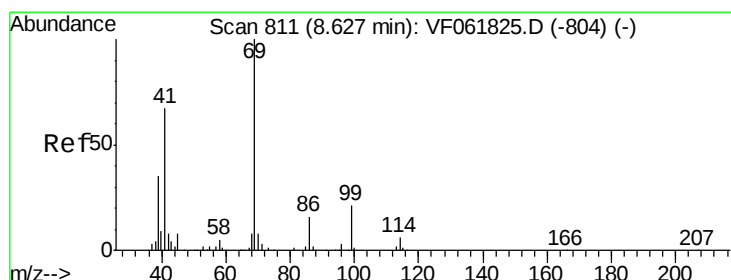
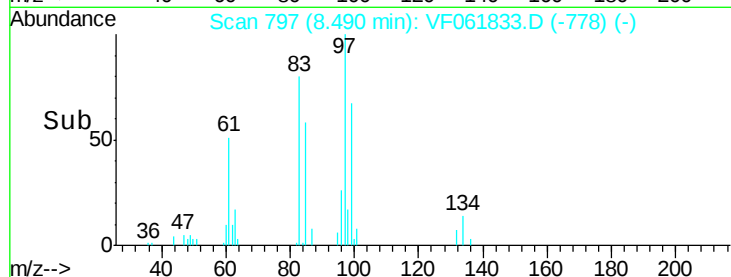
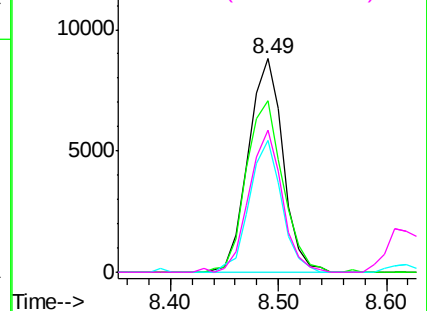


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 9.863 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

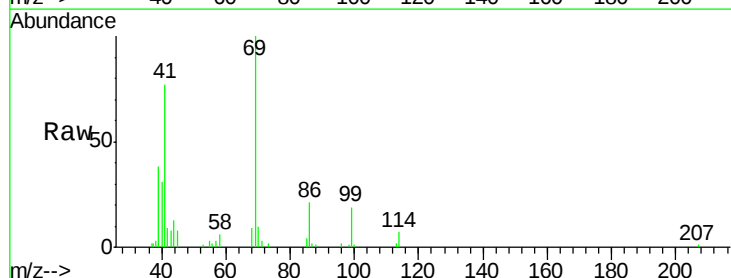
Tgt Ion: 69 Resp: 21592

Ion Ratio Lower Upper

69 100

41 77.4 53.9 80.9

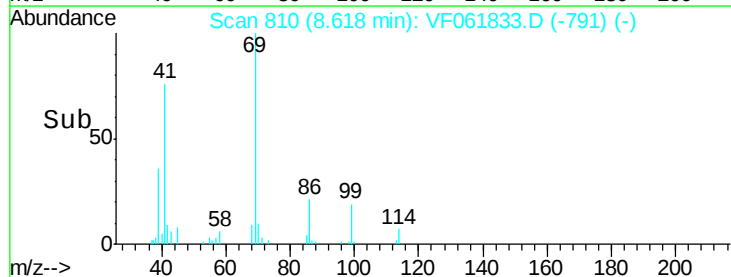
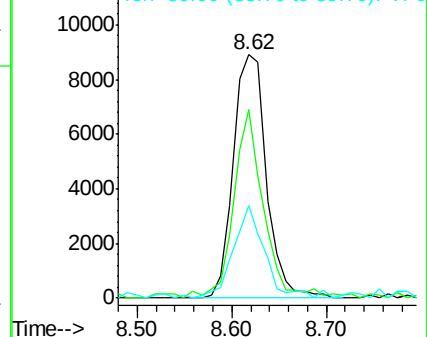
39 38.0 28.3 42.5

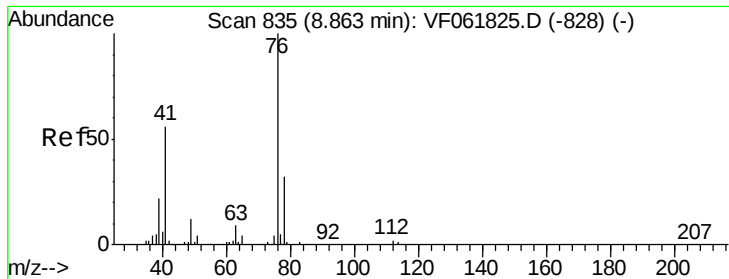


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 10.153 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

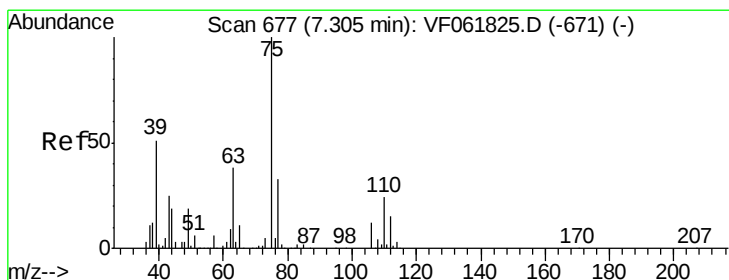
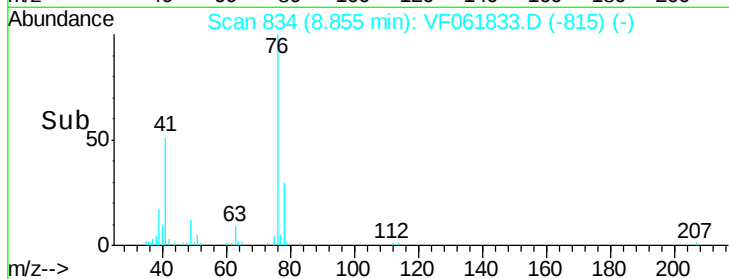
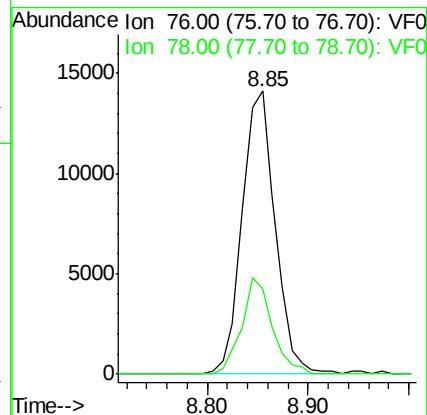
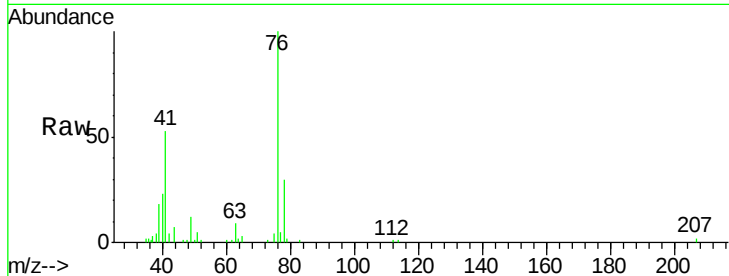
LOQ-SOIL-02-QT1-2019

Tot Ion: 76 Resp: 32255

Ion Ratio Lower Upper

76 100

78 30.2 25.4 38.2



#58

2-Chloroethyl Vinyl ether

Concen: 54.641 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061833.D

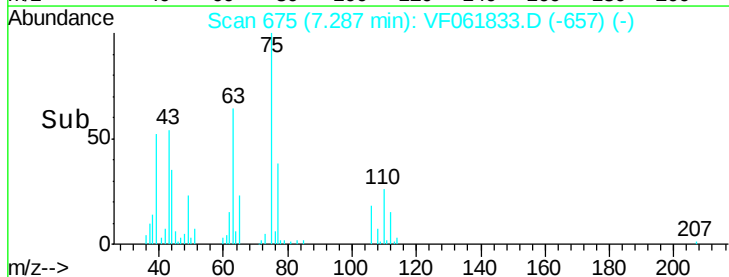
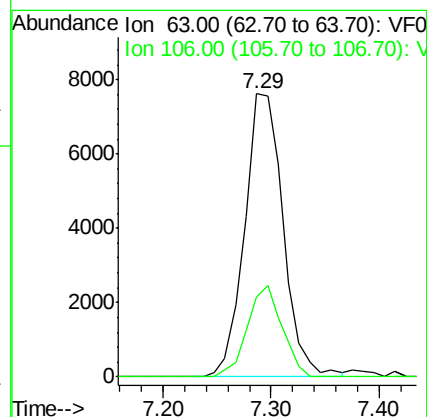
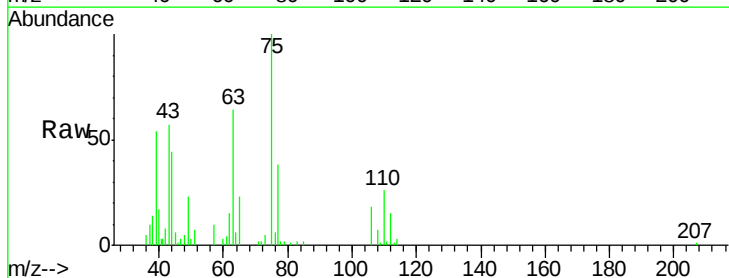
Acq: 4 Mar 2019 22:16

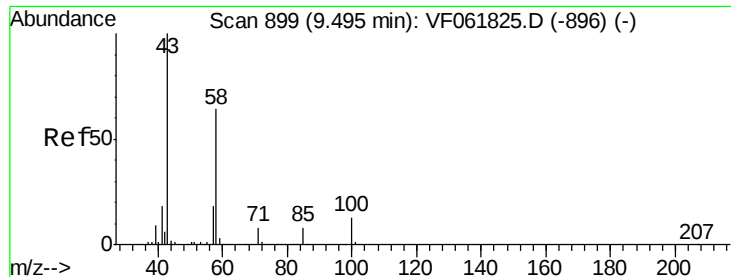
Tgt Ion: 63 Resp: 18923

Ion Ratio Lower Upper

63 100

106 28.3 24.3 36.5

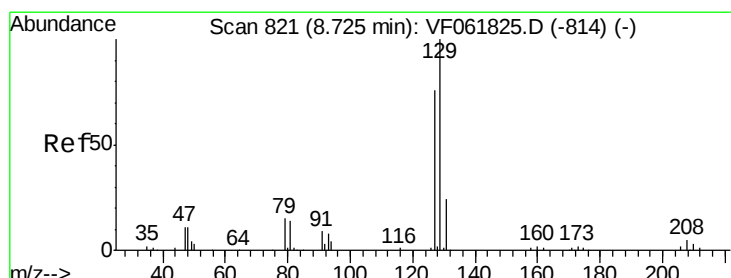
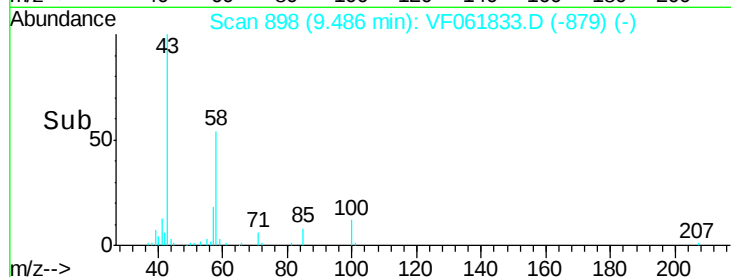
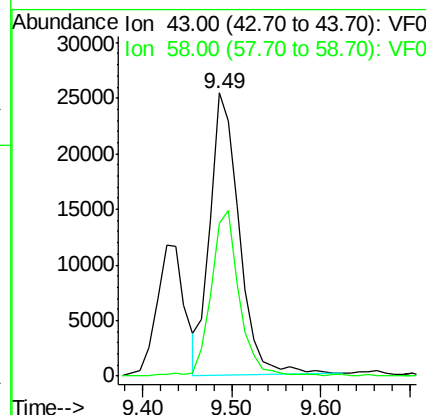
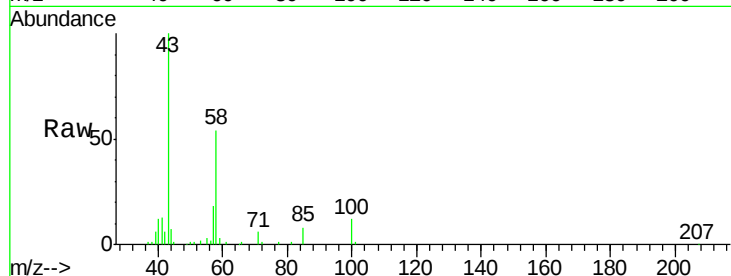




#59
2-Hexanone
Concen: 50.830 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

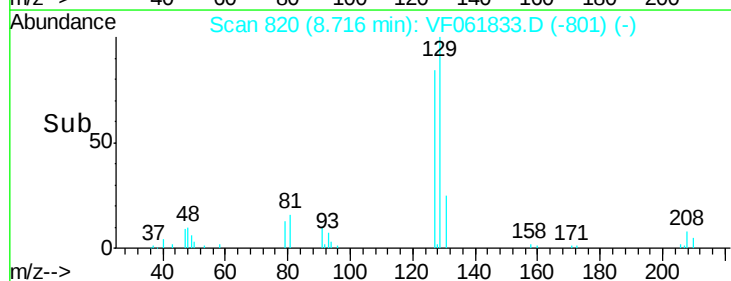
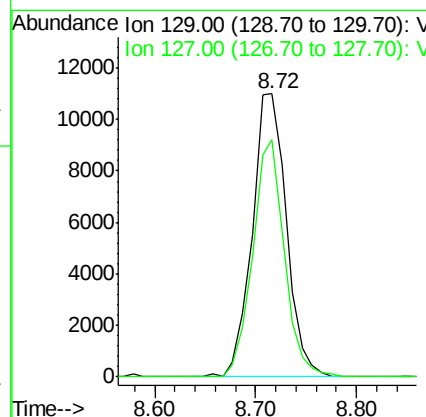
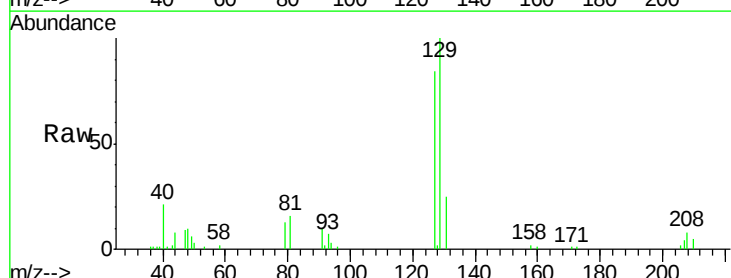
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

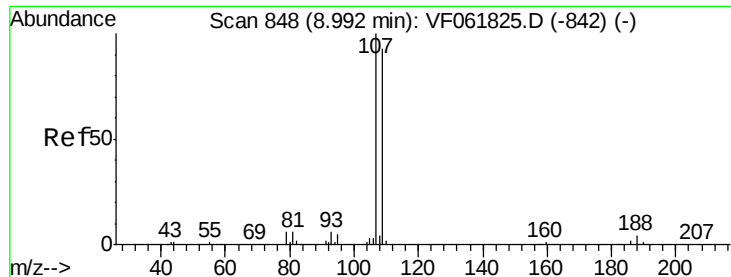
Tot Ion: 43 Resp: 57172
Ion Ratio Lower Upper
43 100
58 54.1 28.8 86.4



#60
Dibromochloromethane
Concen: 9.395 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 129 Resp: 26011
Ion Ratio Lower Upper
129 100
127 83.7 38.2 114.6





#61

1,2-Dibromoethane

Concen: 9.134 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

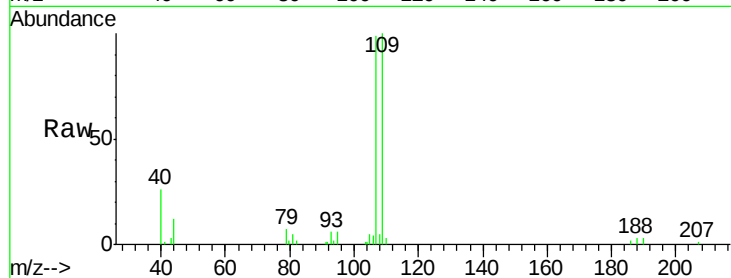
LOQ-SOIL-02-QT1-2019

Tot Ion:107 Resp: 19512

Ion Ratio Lower Upper

107 100

109 101.2 74.6 112.0

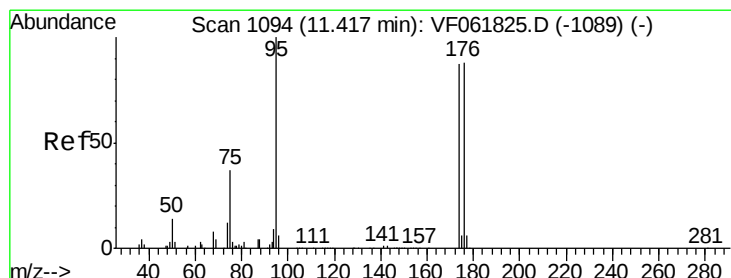
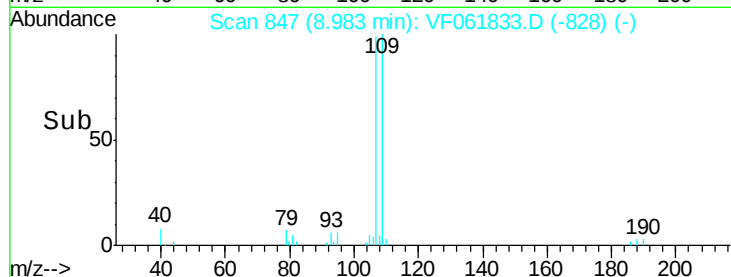


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.98

Time-->



#62

4-Bromofluorobenzene

Concen: 54.680 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

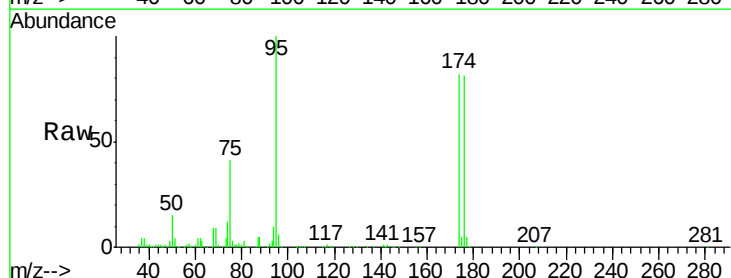
Tgt Ion: 95 Resp: 205075

Ion Ratio Lower Upper

95 100

174 82.1 0.0 174.0

176 80.9 0.0 175.2



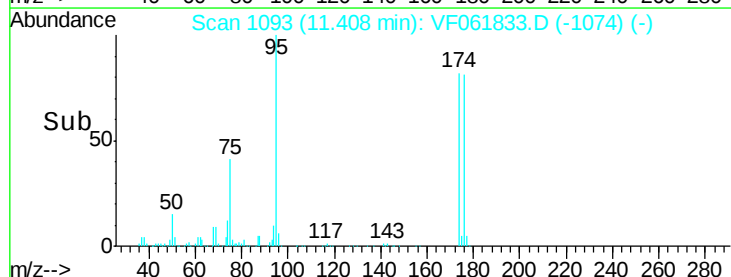
Abundance Ion 95.00 (94.70 to 95.70): VF0

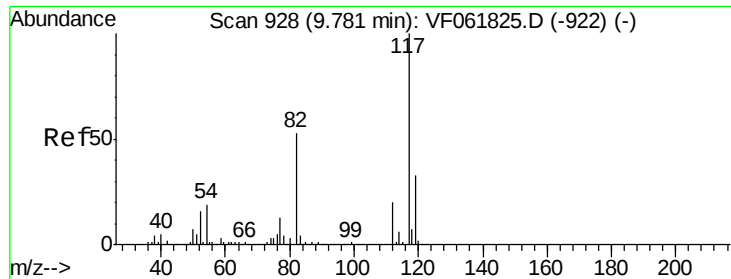
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.41

Time-->

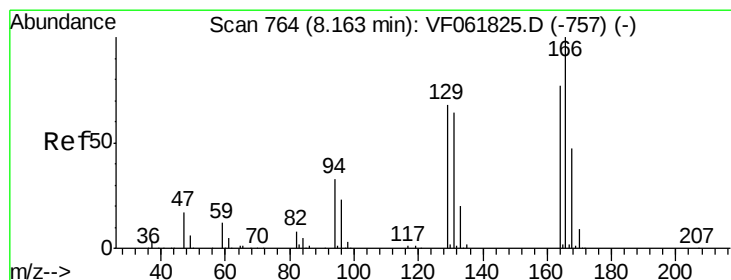
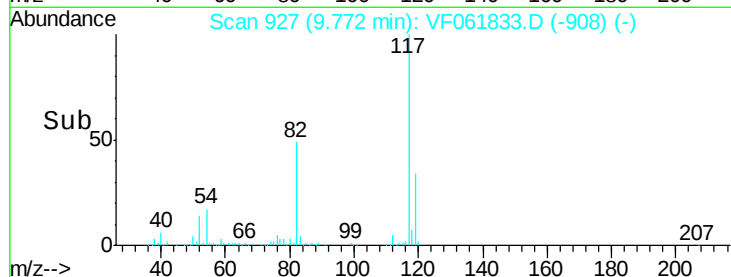
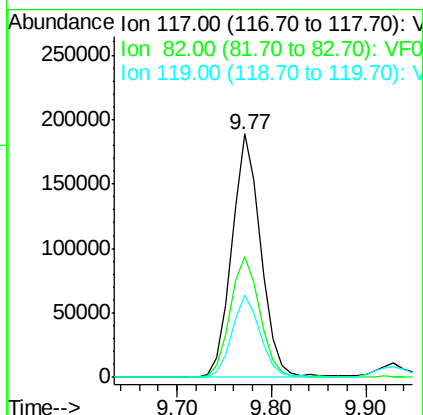
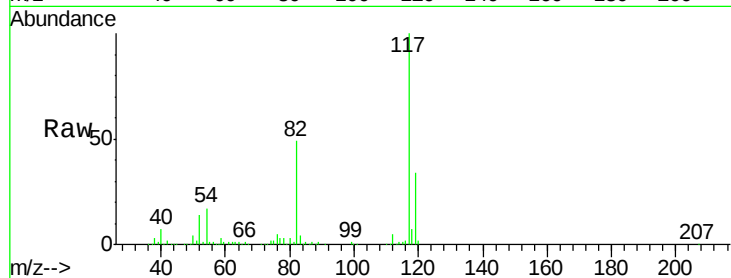




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

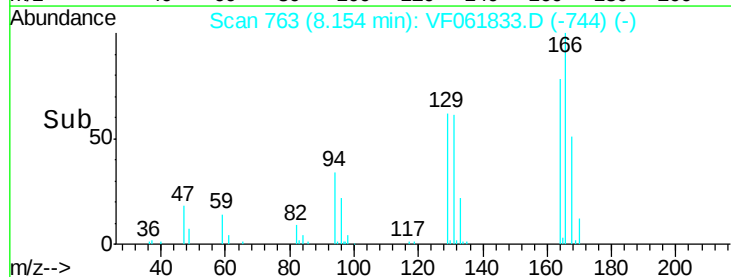
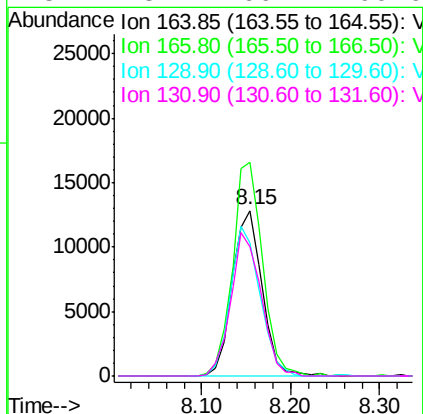
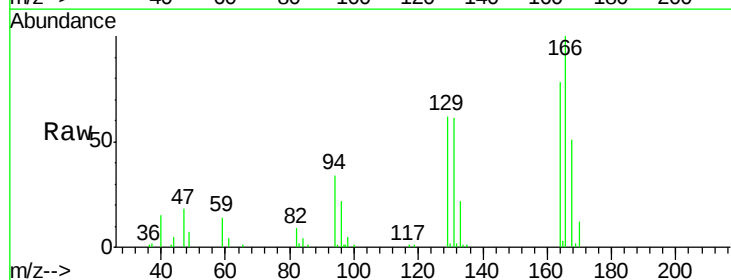
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

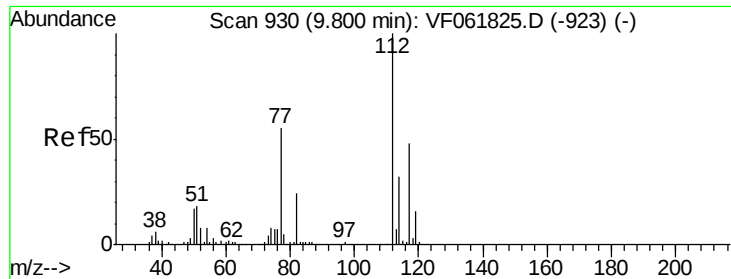
Tot Ion:117 Resp: 401507
Ion Ratio Lower Upper
117 100
82 49.4 42.6 63.8
119 33.7 26.0 39.0



#64
Tetrachloroethene
Concen: 9.732 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion:164 Resp: 30024
Ion Ratio Lower Upper
164 100
166 129.0 103.4 155.0
129 80.2 69.9 104.9
131 78.4 66.4 99.6

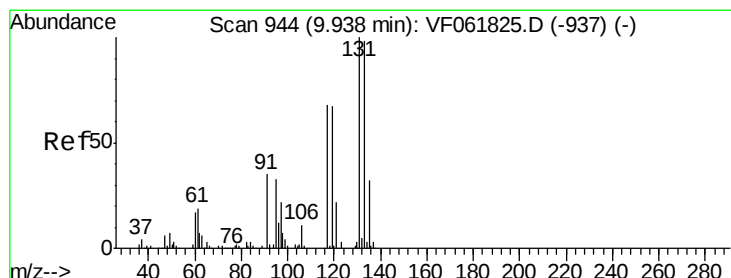
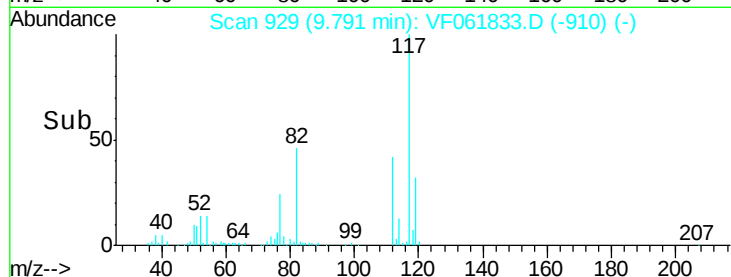
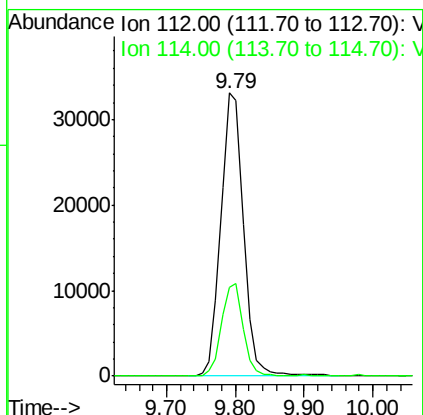
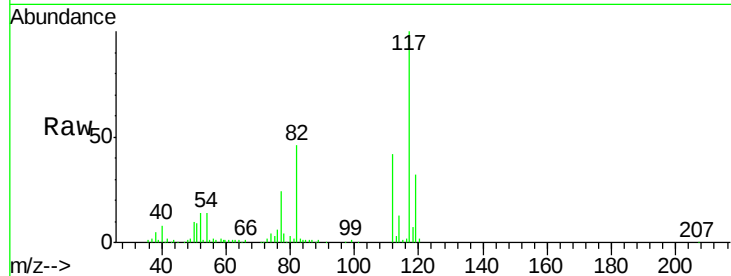




#65
Chlorobenzene
Concen: 9.828 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

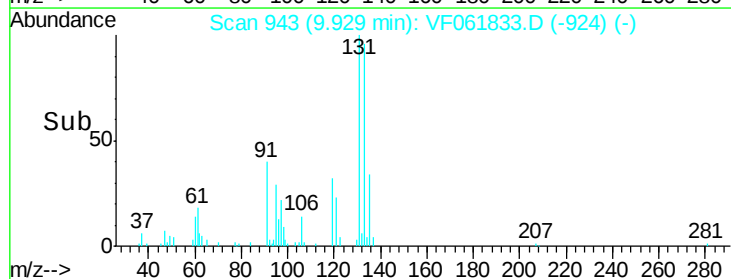
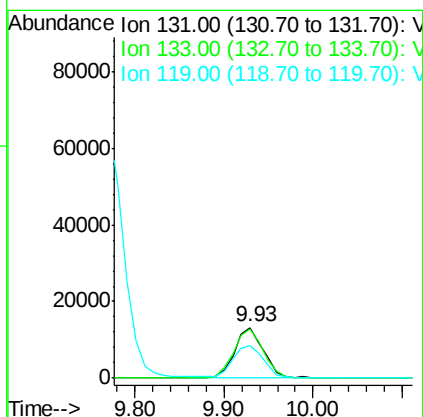
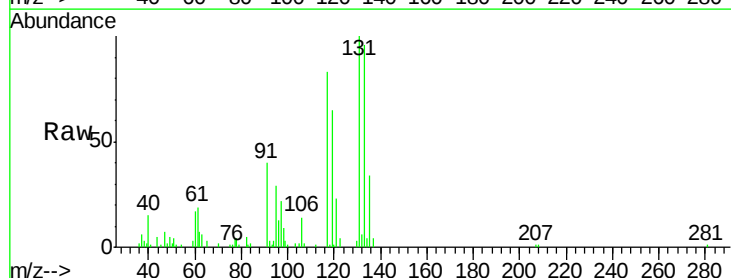
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

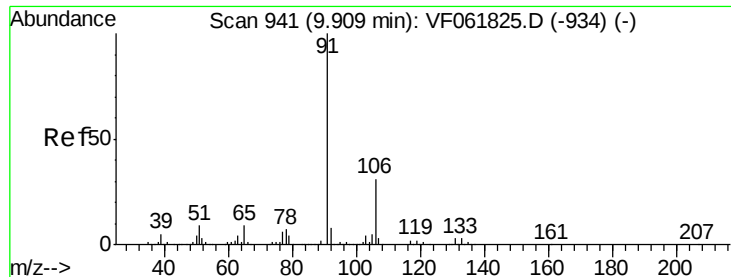
Tot Ion:112 Resp: 75815
Ion Ratio Lower Upper
112 100
114 31.3 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 9.980 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion:131 Resp: 29826
Ion Ratio Lower Upper
131 100
133 96.2 48.9 146.7
119 65.1 33.6 100.8

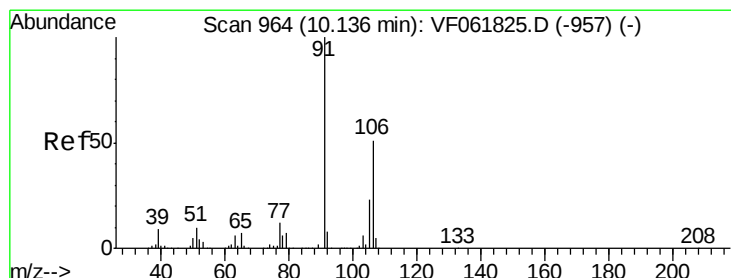
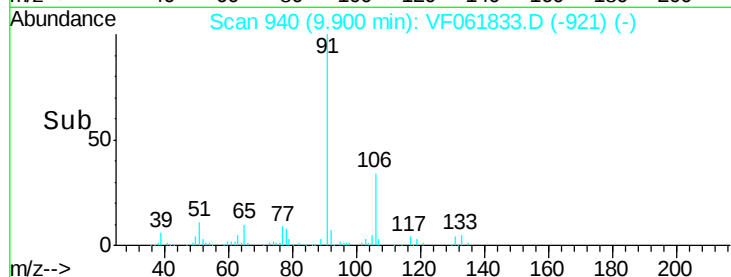
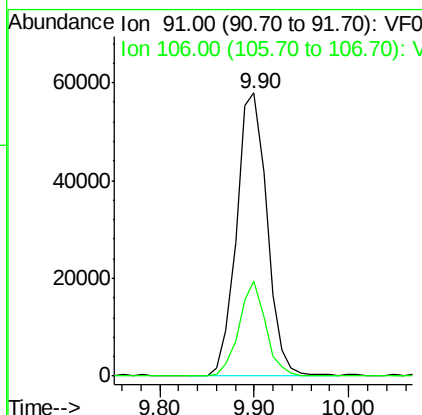
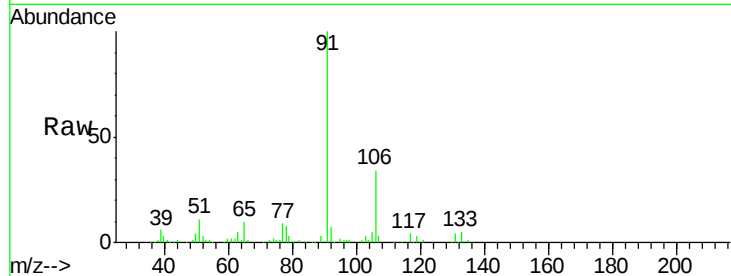




#67
Ethyl Benzene
Concen: 10.119 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

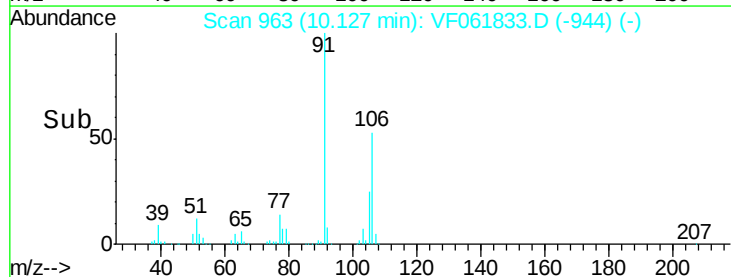
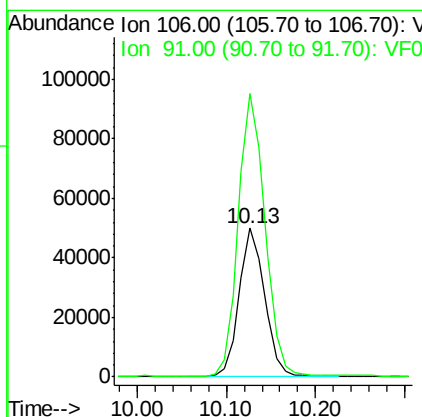
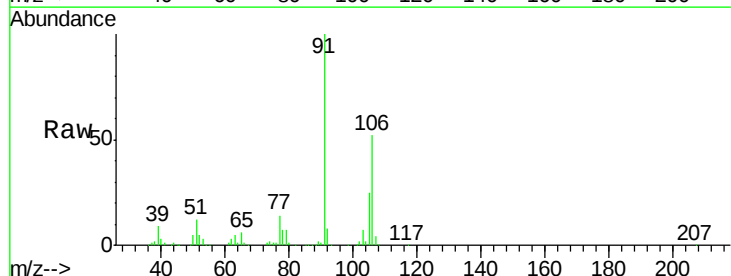
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

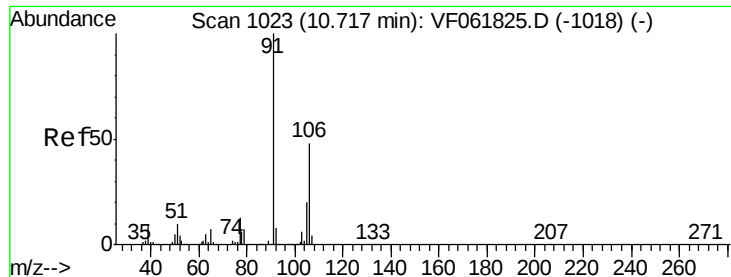
Tot Ion: 91 Resp: 129374
Ion Ratio Lower Upper
91 100
106 33.7 25.0 37.4



#68
m/p-Xylenes
Concen: 20.544 ug/l
RT: 10.13 min Scan# 963
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 106 Resp: 100624
Ion Ratio Lower Upper
106 100
91 190.8 157.5 236.3

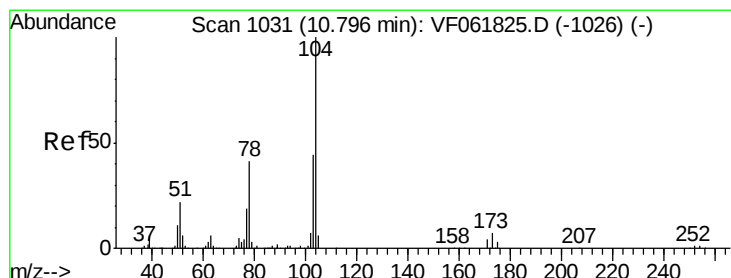
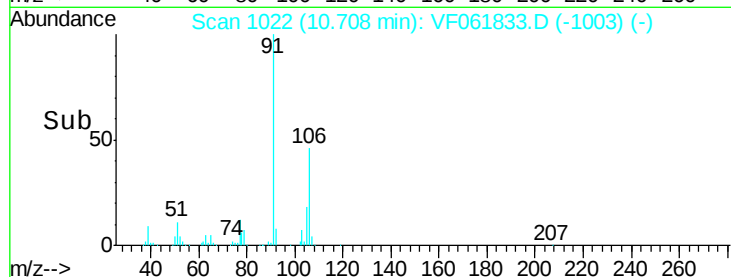
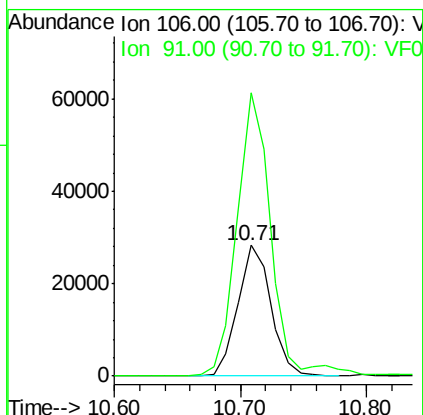
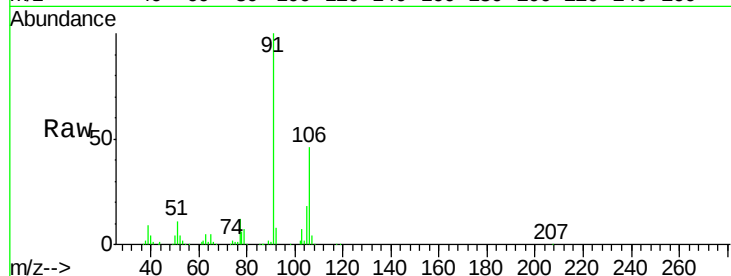




#69
o-Xylene
Concen: 9.772 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

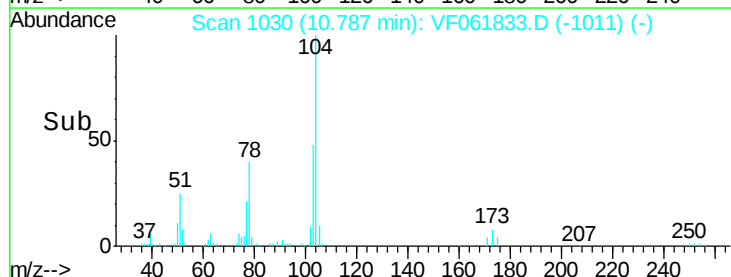
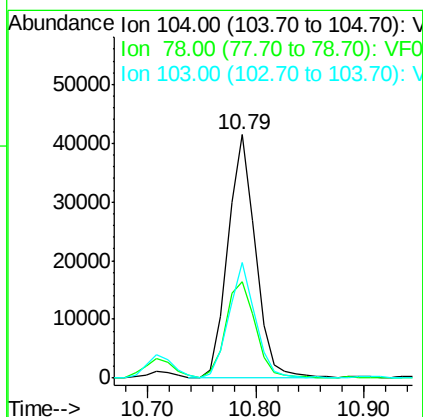
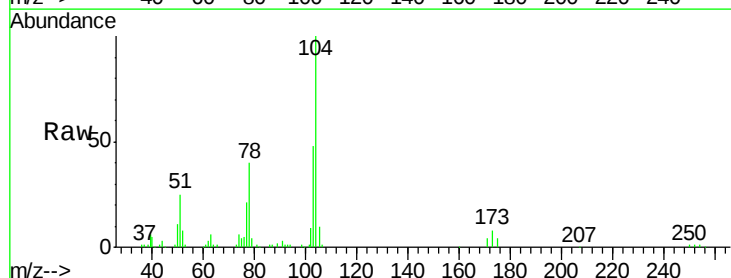
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

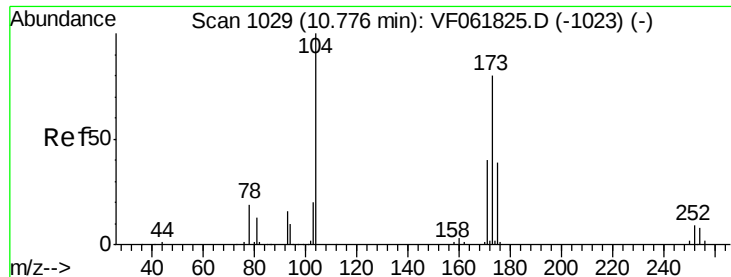
Tot Ion:106 Resp: 51541
Ion Ratio Lower Upper
106 100
91 216.2 103.5 310.3



#70
Styrene
Concen: 9.916 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion:104 Resp: 73604
Ion Ratio Lower Upper
104 100
78 39.6 33.3 49.9
103 47.6 35.4 53.0

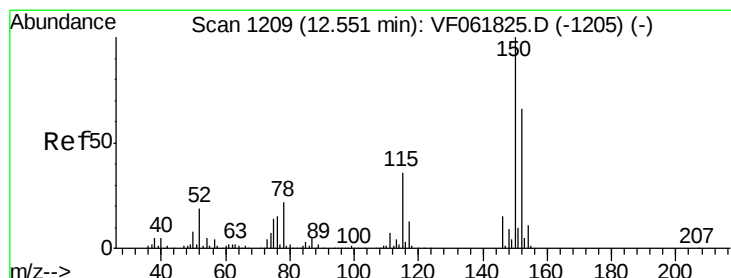
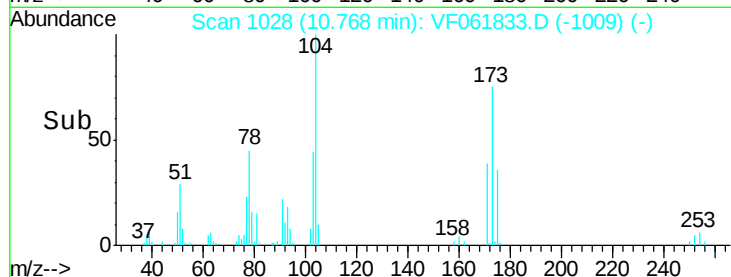
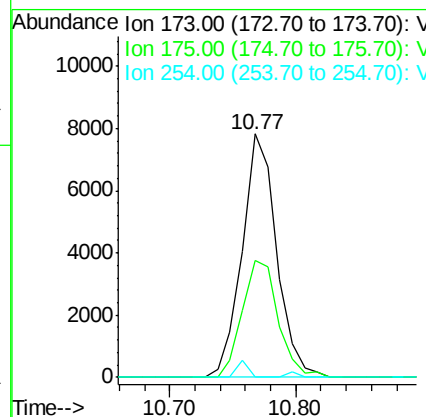
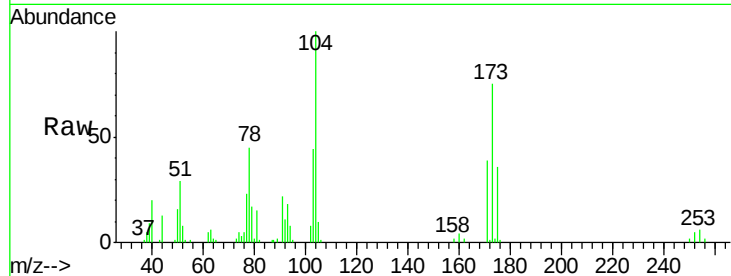




#71
Bromoform
Concen: 9.385 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

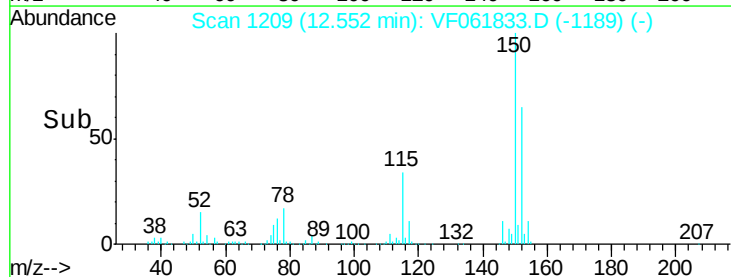
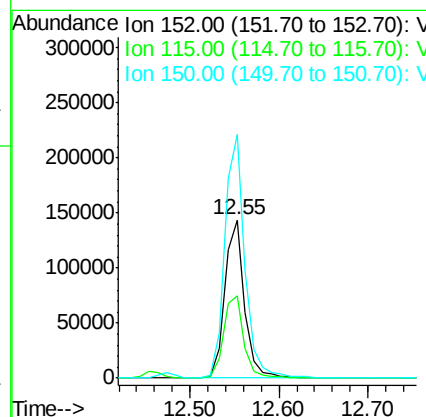
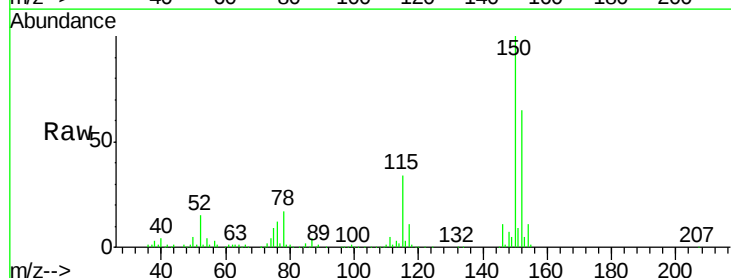
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

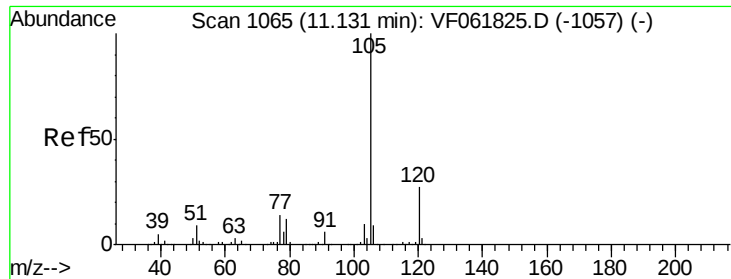
Tot Ion:173 Resp: 14825
Ion Ratio Lower Upper
173 100
175 47.8 24.5 73.5
254 0.0 8.0 12.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion:152 Resp: 224553
Ion Ratio Lower Upper
152 100
115 51.9 27.7 83.1
150 153.8 0.0 304.2

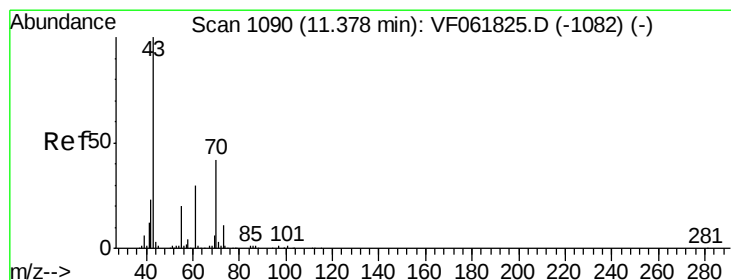
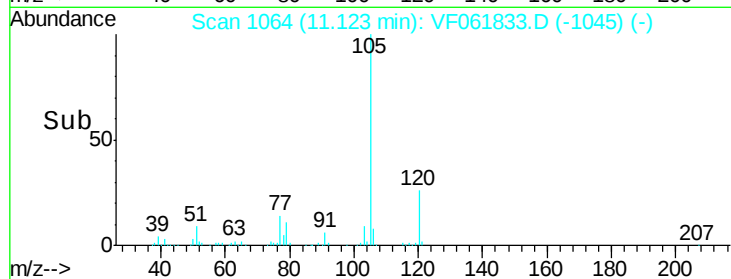
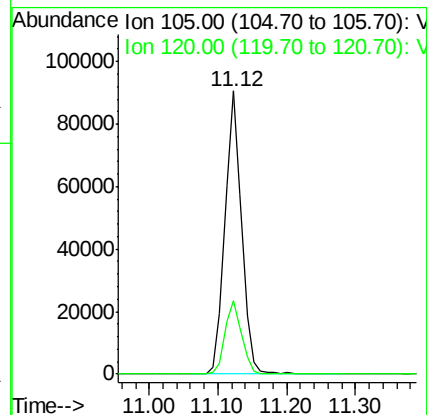
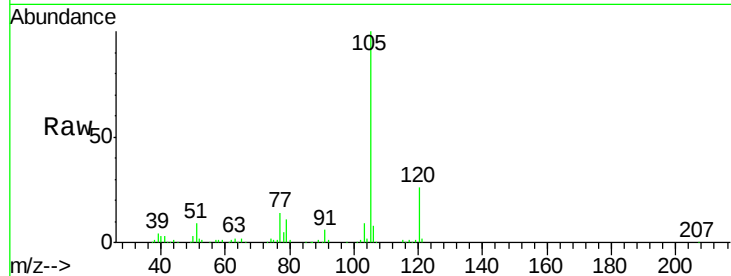




#73
Isopropylbenzene
Concen: 9.817 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

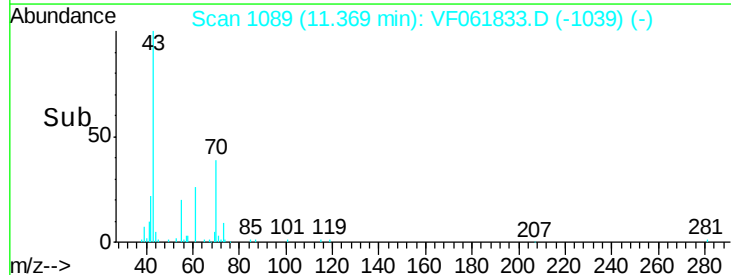
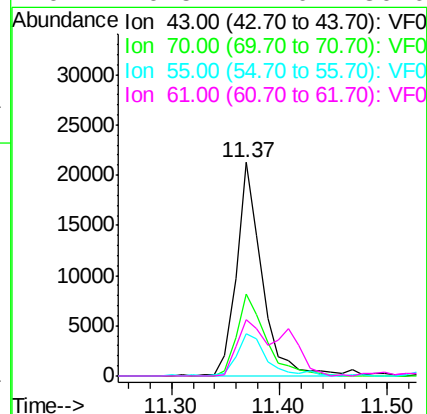
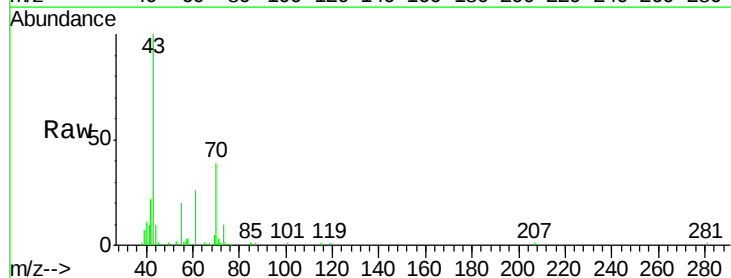
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

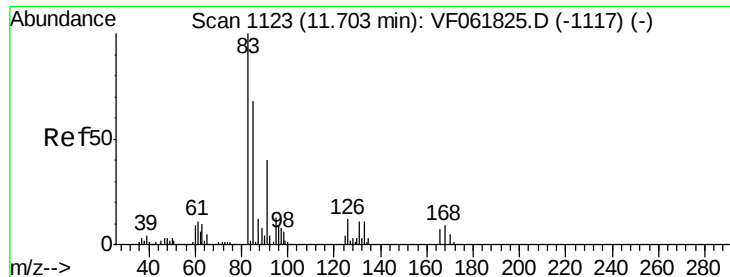
Tot Ion:105 Resp: 151764
Ion Ratio Lower Upper
105 100
120 26.0 13.7 41.0



#74
N-ethyl acetate
Concen: 9.780 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 43 Resp: 34806
Ion Ratio Lower Upper
43 100
70 38.5 33.4 50.0
55 19.9 16.3 24.5
61 26.5 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 9.419 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

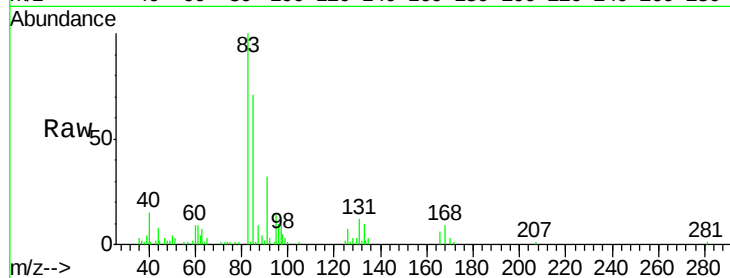
Tot Ion: 83 Resp: 24202

Ion Ratio Lower Upper

83 100

131 12.0 5.5 16.7

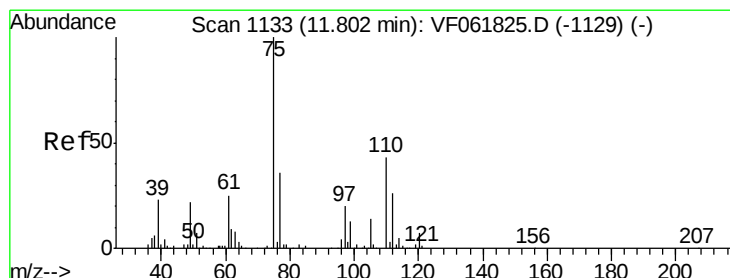
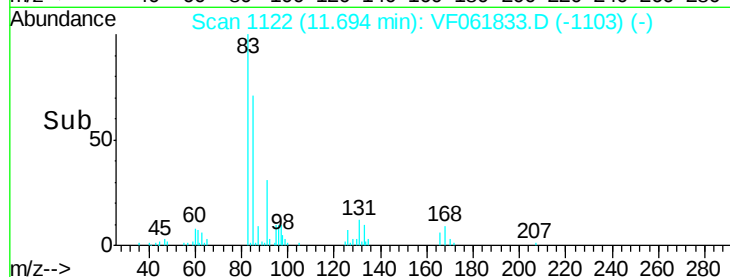
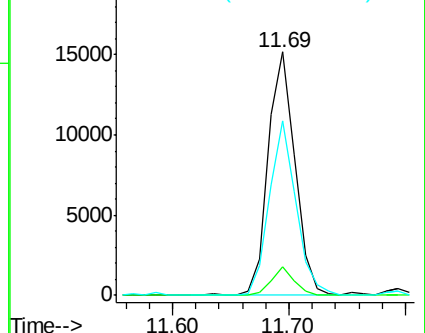
85 71.4 34.2 102.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 10.021 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF061833.D

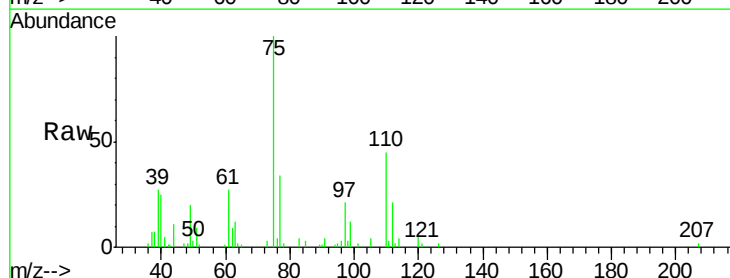
Acq: 4 Mar 2019 22:16

Tgt Ion: 75 Resp: 17573

Ion Ratio Lower Upper

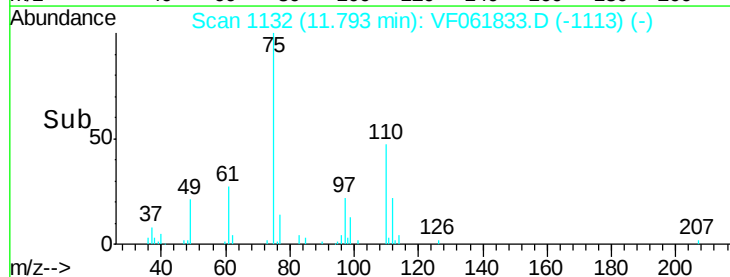
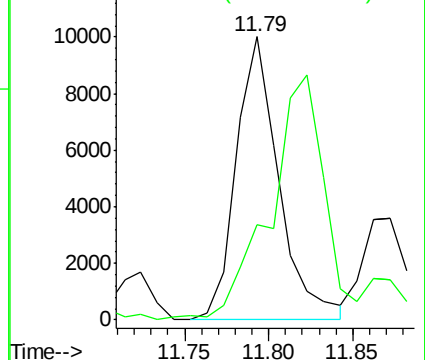
75 100

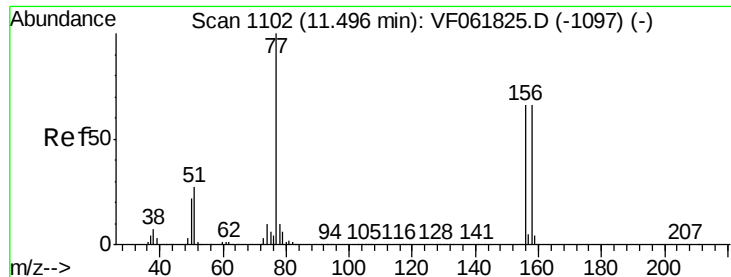
77 33.8 18.1 54.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

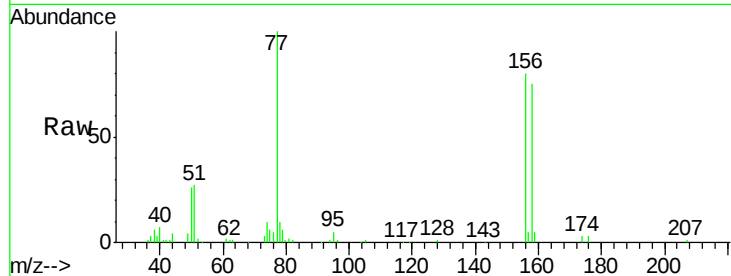




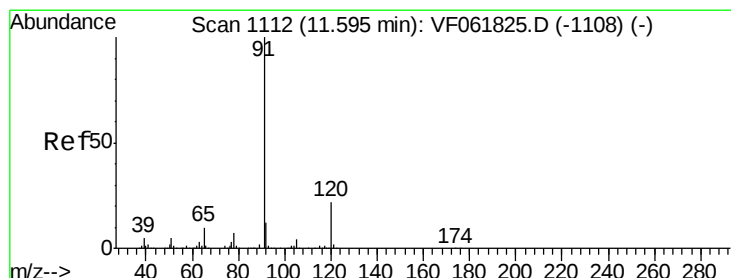
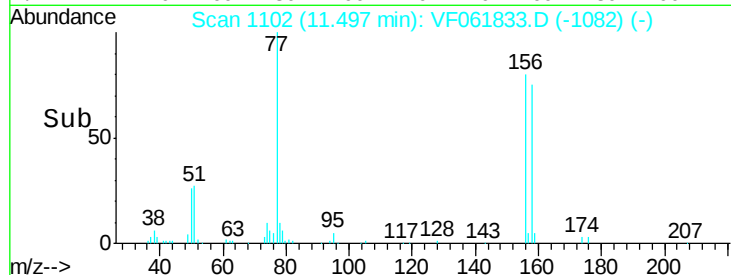
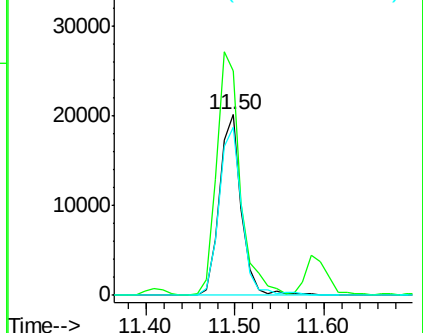
#77
Bromobenzene
Concen: 9.361 ug/l
RT: 11.50 min Scan# 1102
Delta R.T. 0.00 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion:156 Resp: 34828
Ion Ratio Lower Upper
156 100
77 124.5 75.7 227.1
158 92.9 50.0 150.1

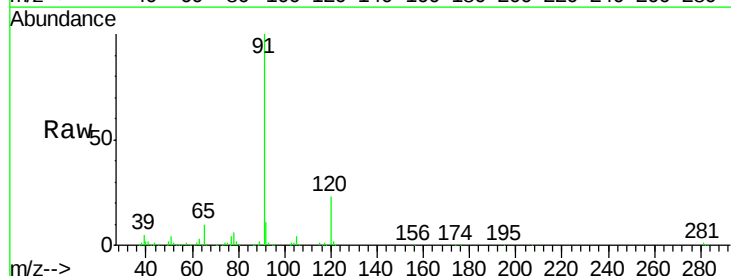


Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): VF0
Ion 158.00 (157.70 to 158.70): V

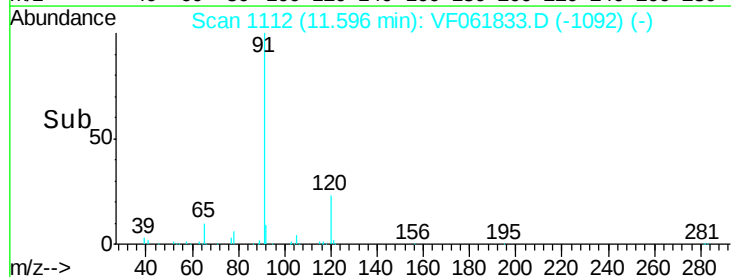
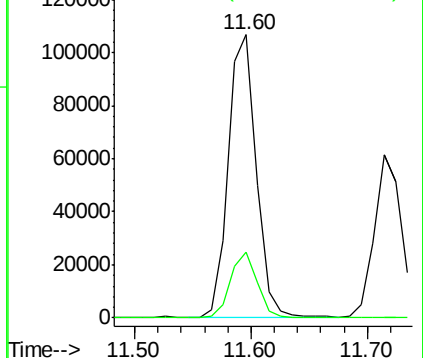


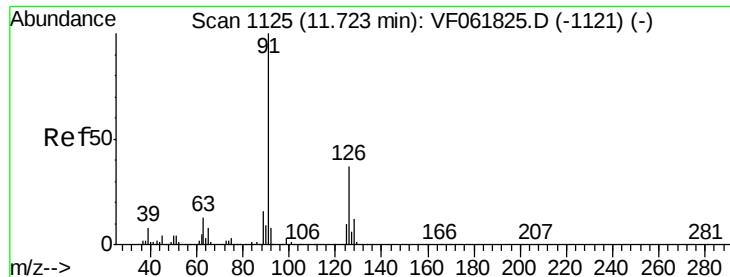
#78
n-propylbenzene
Concen: 10.168 ug/l
RT: 11.60 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 91 Resp: 177509
Ion Ratio Lower Upper
91 100
120 23.0 11.1 33.1



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

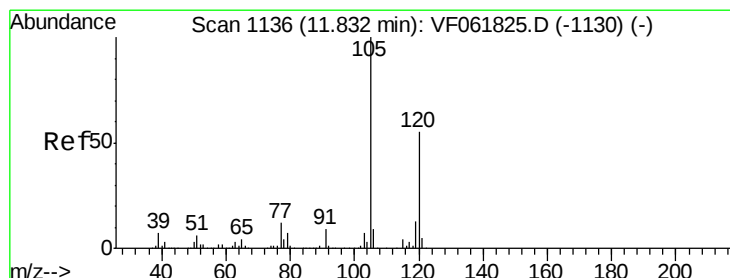
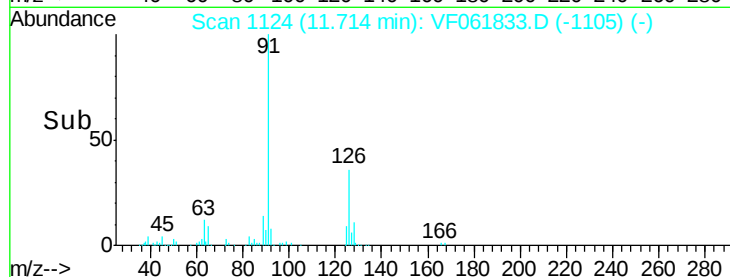
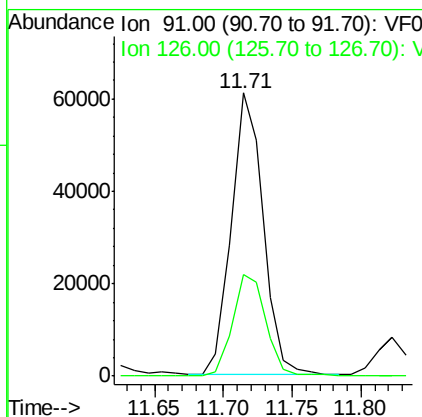
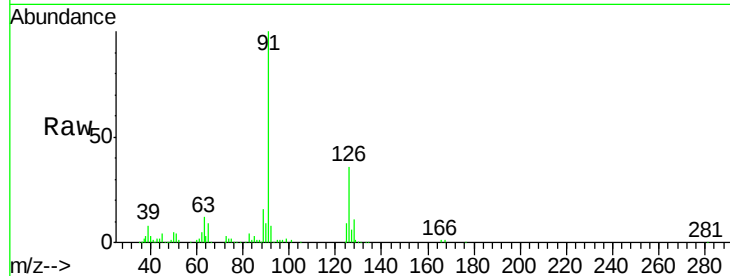




#79
 2-Chlorotoluene
 Concen: 9.879 ug/l
 RT: 11.71 min Scan# 1124
 Delta R.T. -0.01 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

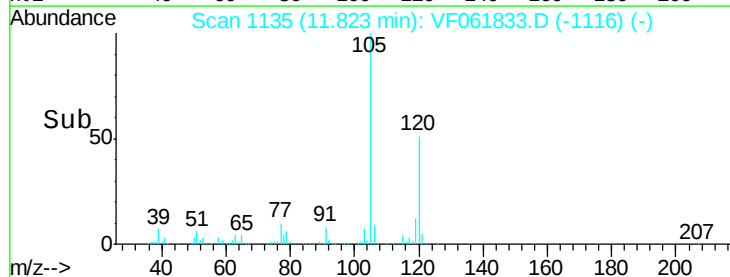
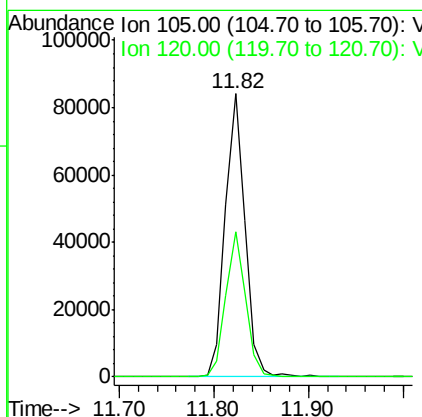
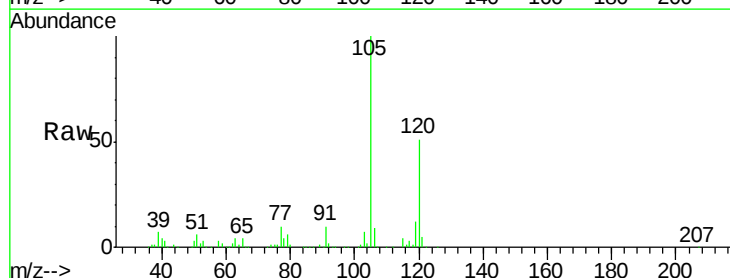
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

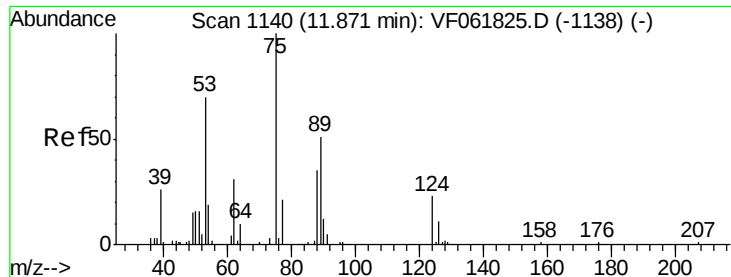
Tot Ion: 91 Resp: 98606
 Ion Ratio Lower Upper
 91 100
 126 35.8 18.1 54.4



#80
 1,3,5-Trimethylbenzene
 Concen: 9.868 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.01 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Tgt Ion: 105 Resp: 122485
 Ion Ratio Lower Upper
 105 100
 120 51.4 27.4 82.2

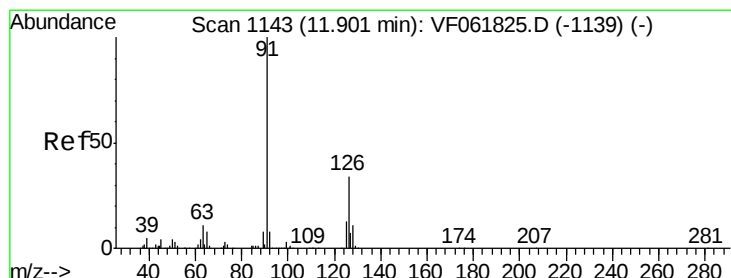
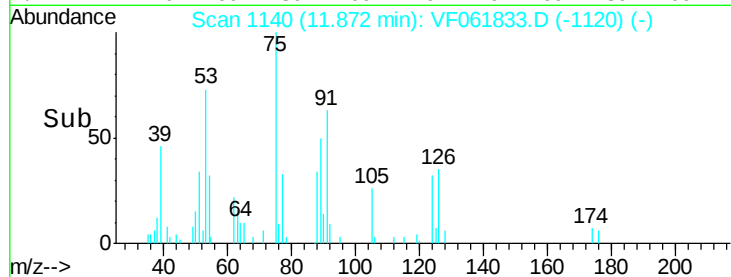
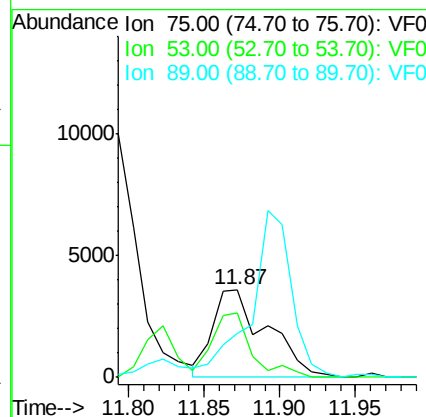
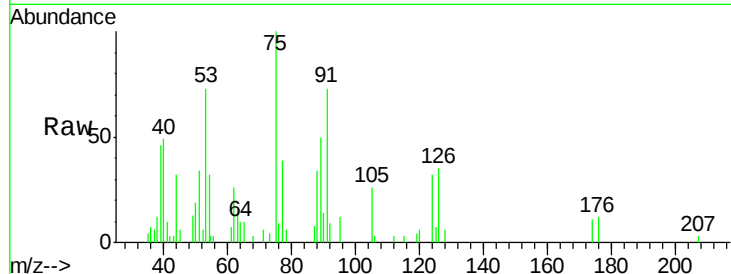




#81
trans-1,4-Dichloro-2-butene
Concen: 11.241 ug/l
RT: 11.87 min Scan# 1140
Delta R.T. 0.00 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

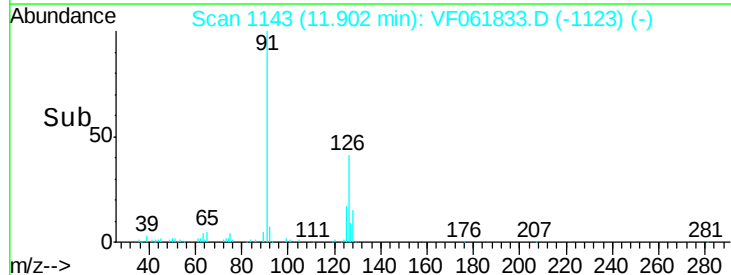
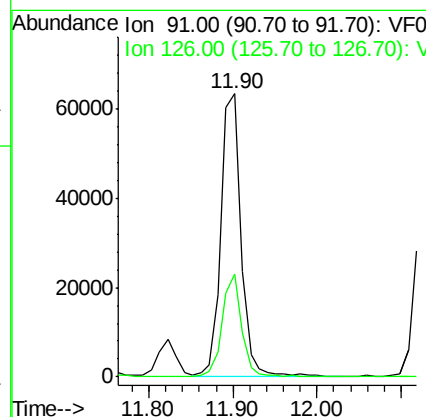
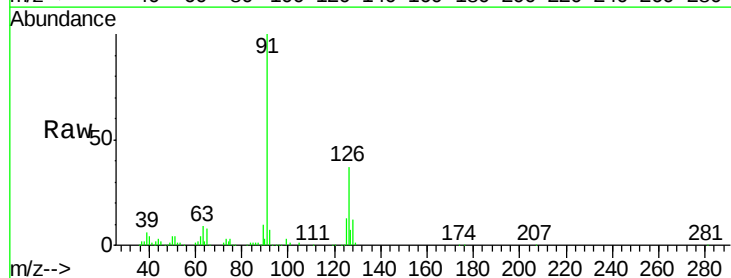
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

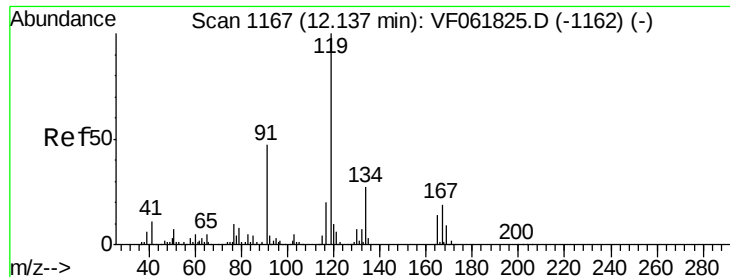
Tot Ion: 75 Resp: 9014
Ion Ratio Lower Upper
75 100
53 73.2 58.6 88.0
89 50.3 41.4 62.0



#82
4-Chlorotoluene
Concen: 10.336 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion: 91 Resp: 105522
Ion Ratio Lower Upper
91 100
126 36.5 17.0 50.9

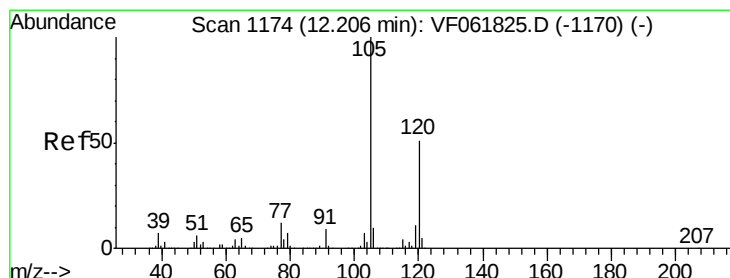
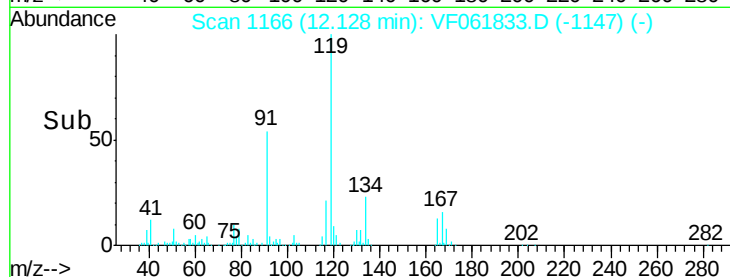
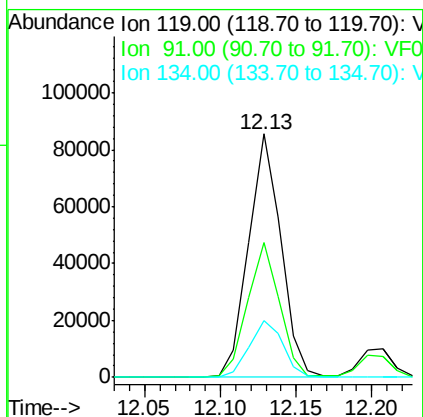
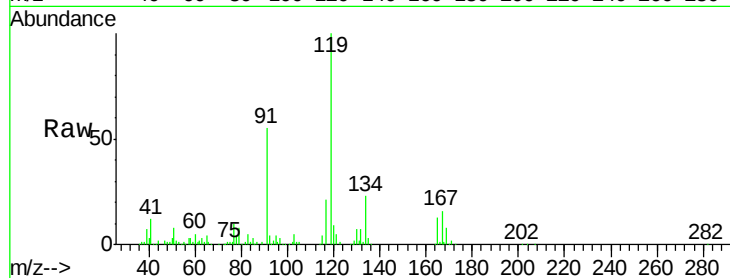




#83
 tert-Butylbenzene
 Concen: 9.799 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

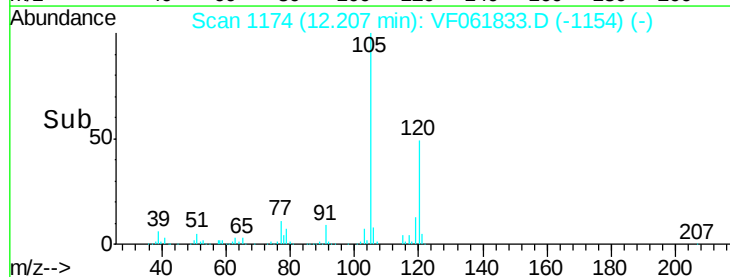
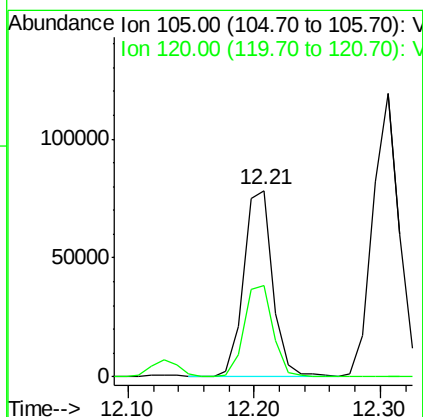
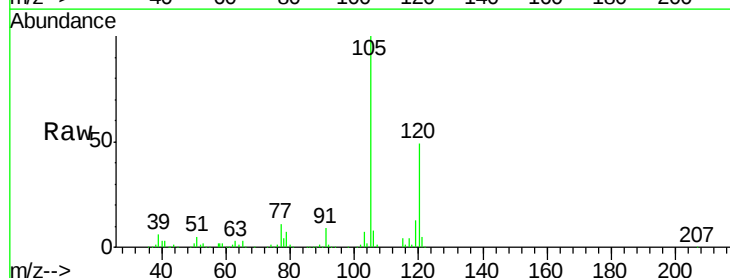
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

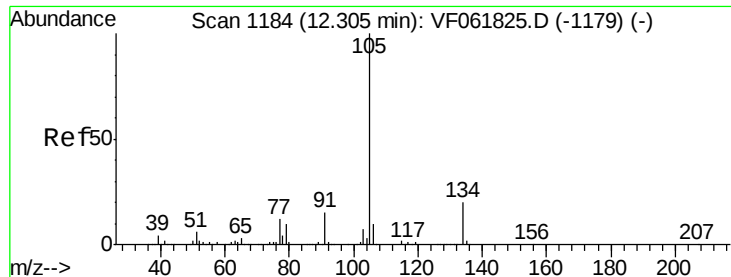
Tot Ion:119 Resp: 129148
 Ion Ratio Lower Upper
 119 100
 91 55.3 23.5 70.5
 134 23.3 13.3 39.8



#84
 1,2,4-Trimethylbenzene
 Concen: 10.141 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Tgt Ion:105 Resp: 123390
 Ion Ratio Lower Upper
 105 100
 120 48.8 25.8 77.4





#85

sec-Butylbenzene

Concen: 10.182 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

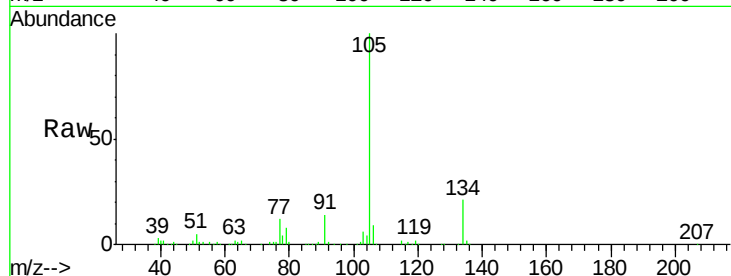
LOQ-SOIL-02-QT1-2019

Tot Ion:105 Resp: 174623

Ion Ratio Lower Upper

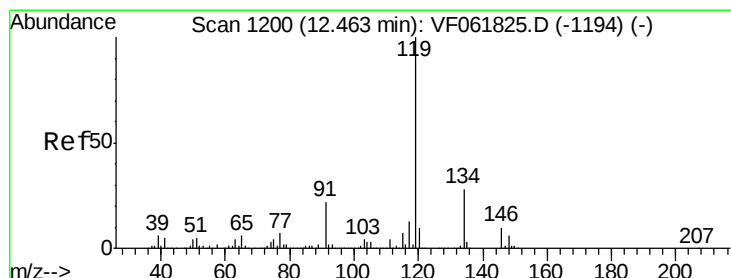
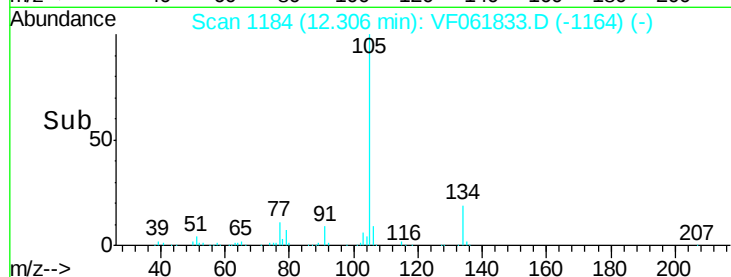
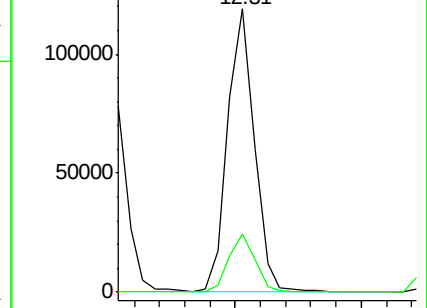
105 100

134 20.6 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 10.362 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

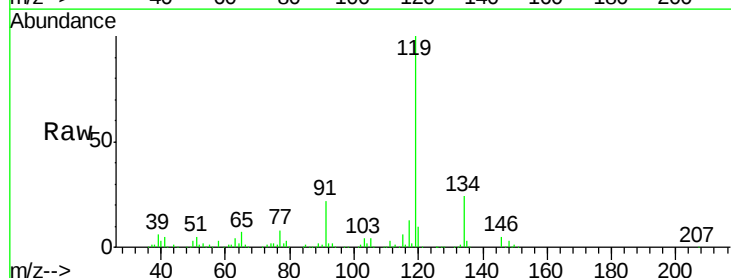
Tgt Ion:119 Resp: 151070

Ion Ratio Lower Upper

119 100

134 24.3 14.0 42.0

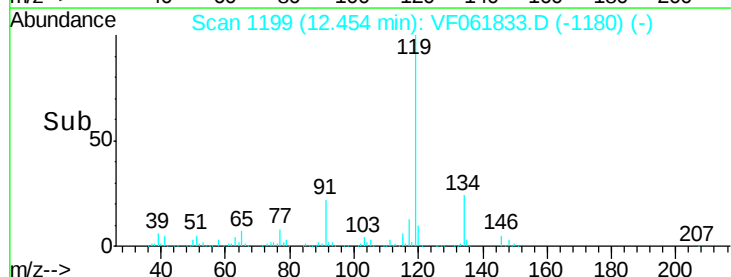
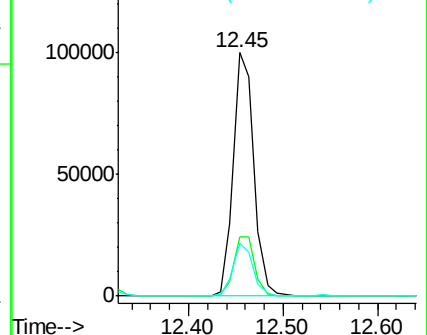
91 21.9 11.1 33.3

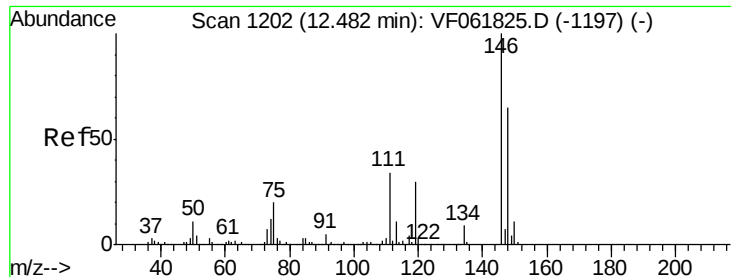


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 10.048 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

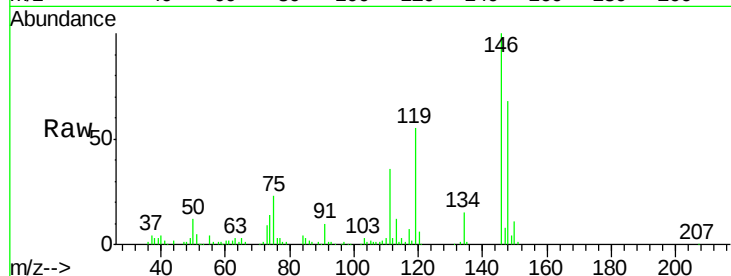
Tot Ion:146 Resp: 70987

Ion Ratio Lower Upper

146 100

111 36.0 17.0 51.0

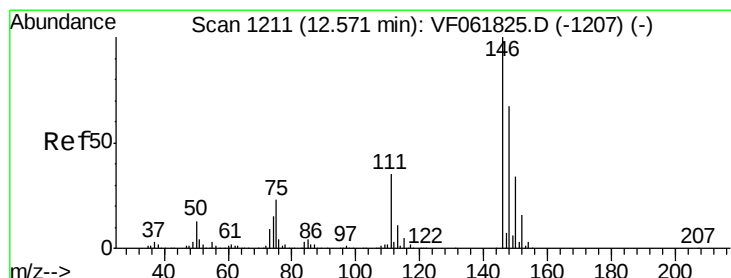
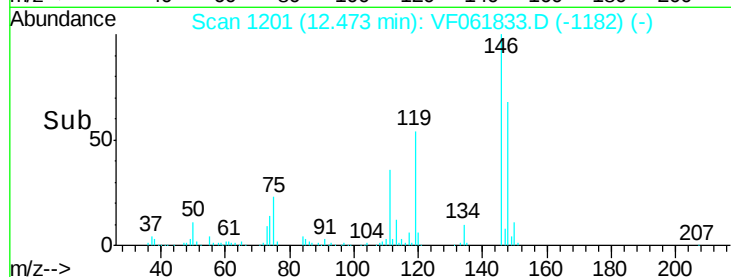
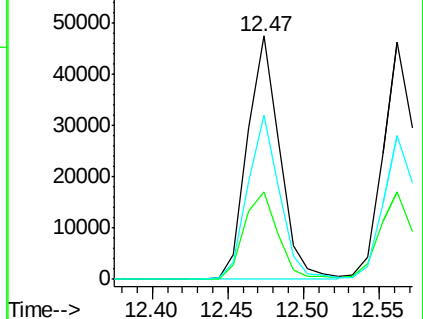
148 67.6 32.5 97.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 10.155 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

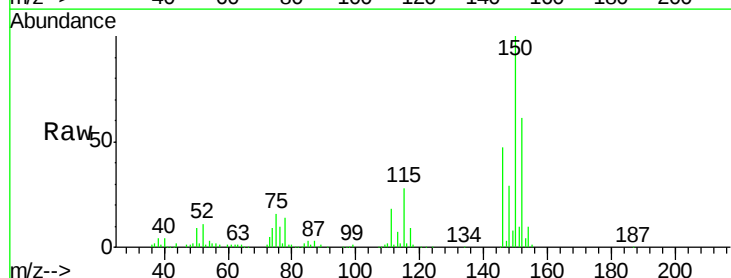
Tgt Ion:146 Resp: 69202

Ion Ratio Lower Upper

146 100

111 37.1 17.6 52.9

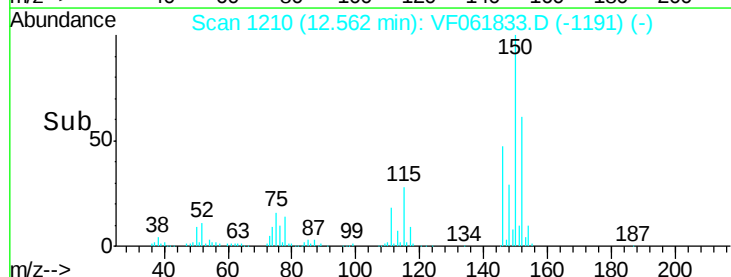
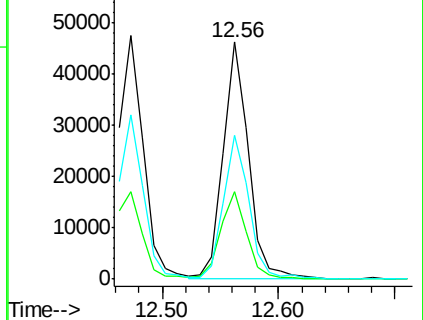
148 60.9 33.5 100.4

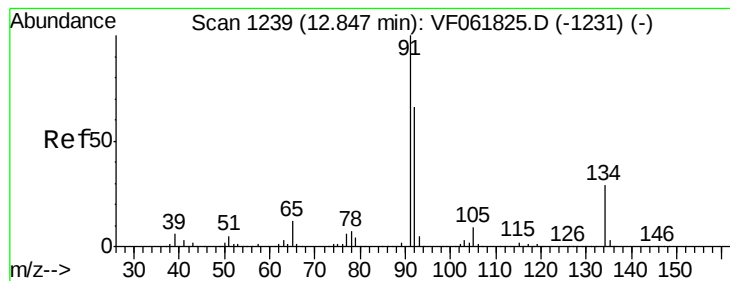


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 10.314 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

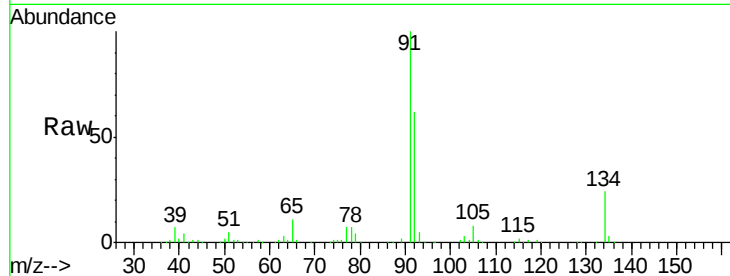
Tot Ion: 91 Resp: 143703

Ion Ratio Lower Upper

91 100

92 61.8 32.9 98.6

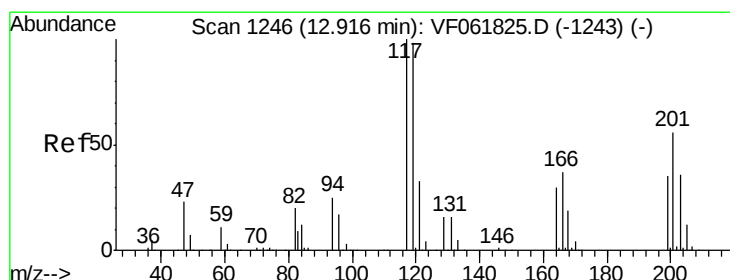
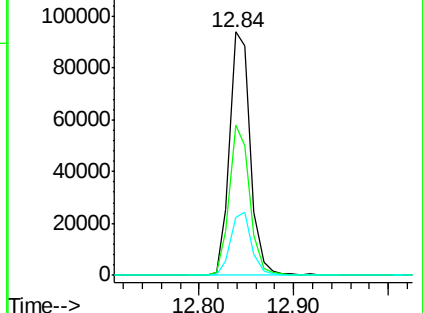
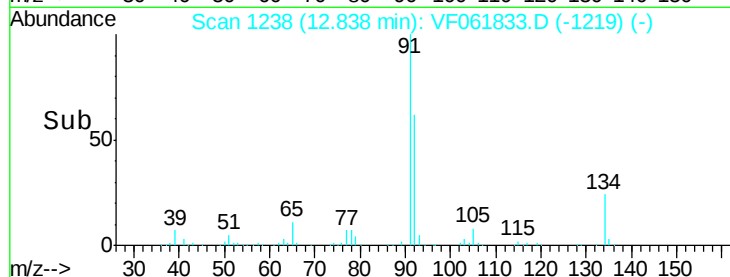
134 23.8 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 9.430 ug/l

RT: 12.92 min Scan# 1246

Delta R.T. 0.00 min

Lab File: VF061833.D

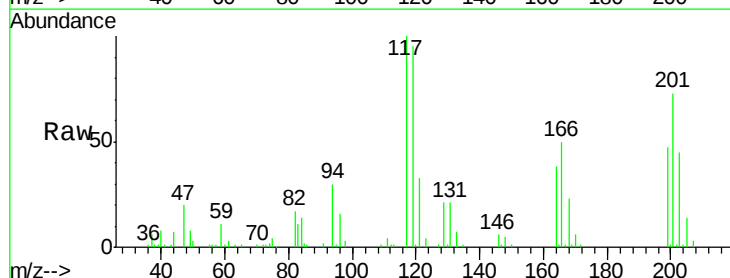
Acq: 4 Mar 2019 22:16

Tgt Ion: 117 Resp: 33090

Ion Ratio Lower Upper

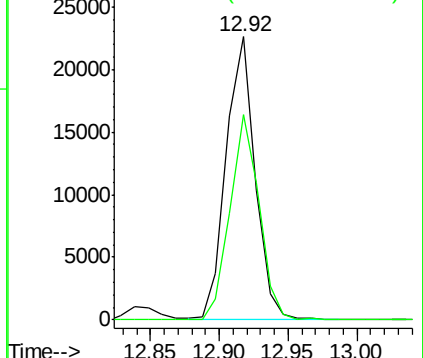
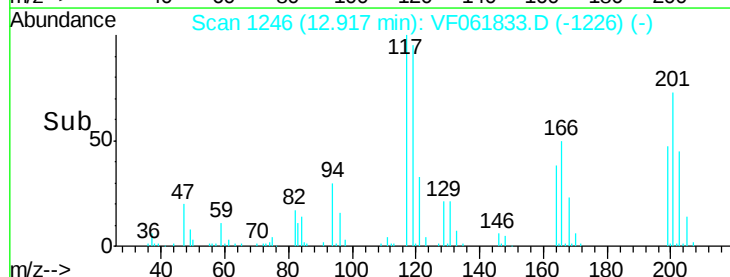
117 100

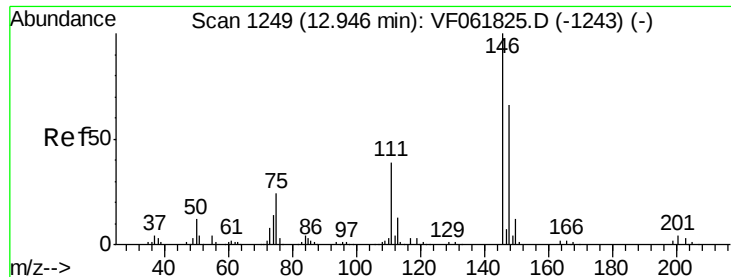
201 72.7 27.8 83.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 10.251 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

Instrument :

MSVOA_F

ClientSampleId :

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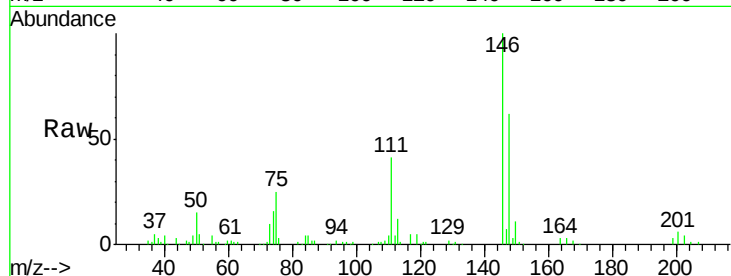
Tot Ion:146 Resp: 68613

Ion Ratio Lower Upper

146 100

111 41.0 19.4 58.4

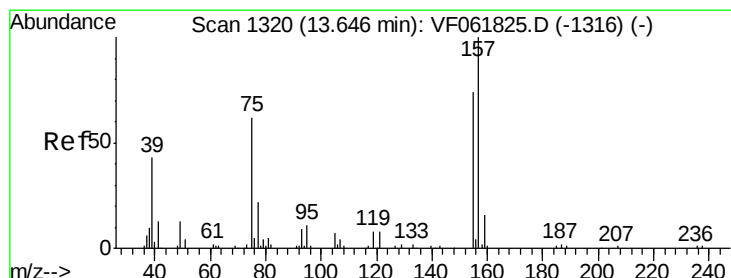
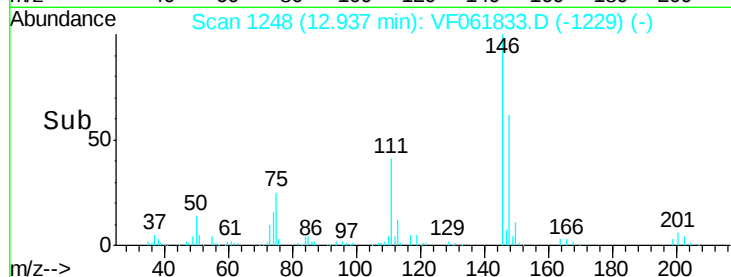
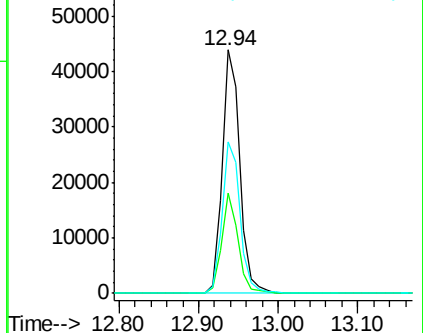
148 62.1 33.0 98.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 11.769 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VF061833.D

Acq: 4 Mar 2019 22:16

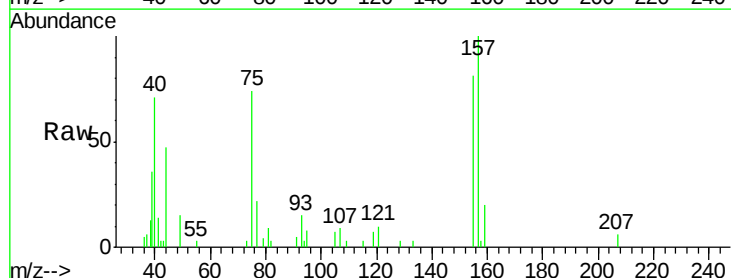
Tgt Ion: 75 Resp: 3861

Ion Ratio Lower Upper

75 100

155 110.5 59.8 179.4

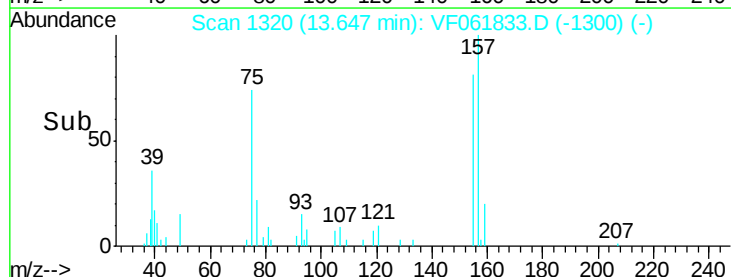
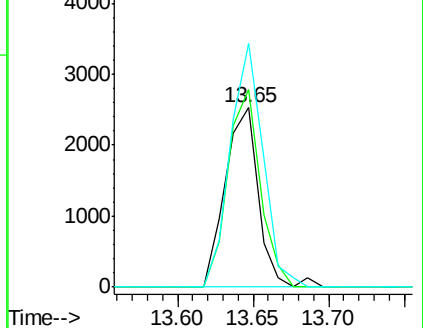
157 135.9 81.2 243.4

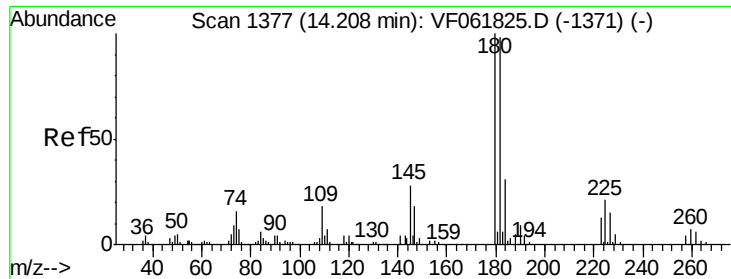


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

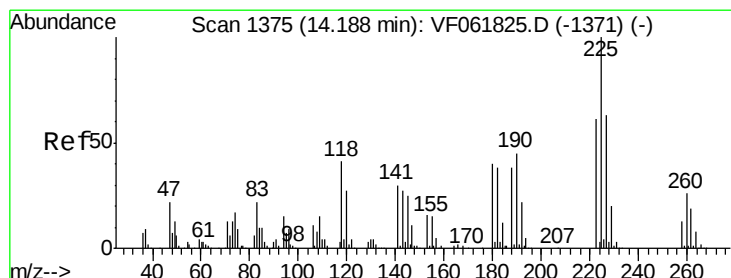
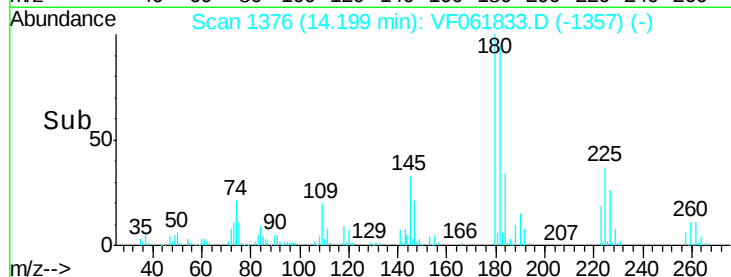
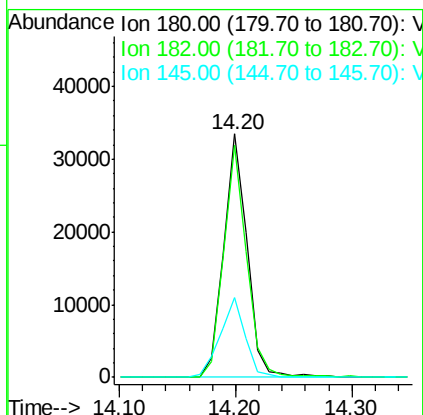
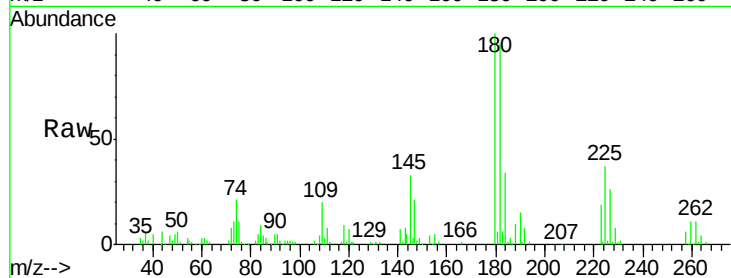




#93
 1,2,4-Trichlorobenzene
 Concen: 9.989 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

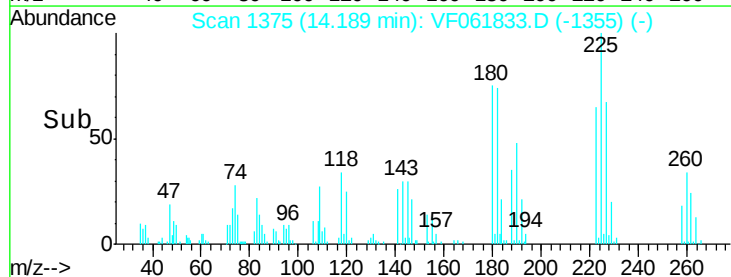
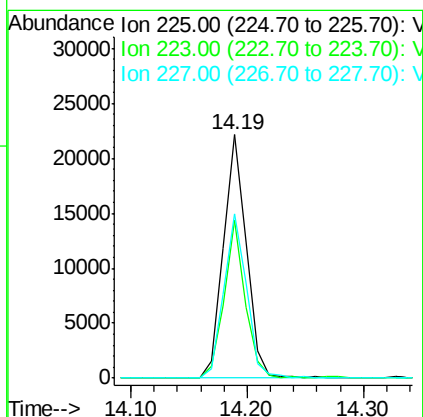
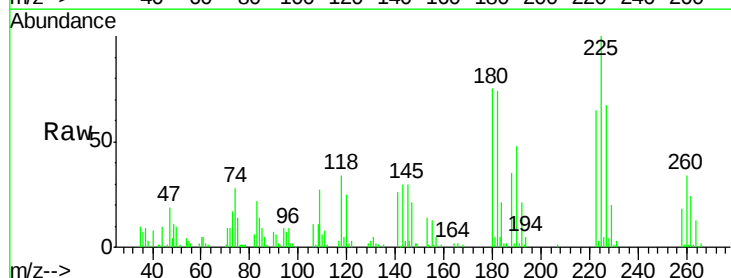
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

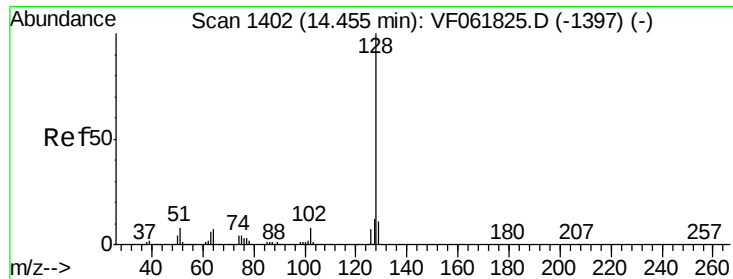
Tot Ion:180 Resp: 46871
 Ion Ratio Lower Upper
 180 100
 182 95.3 49.0 147.2
 145 32.9 14.1 42.4



#94
 Hexachlorobutadiene
 Concen: 9.313 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061833.D
 Acq: 4 Mar 2019 22:16

Tgt Ion:225 Resp: 30252
 Ion Ratio Lower Upper
 225 100
 223 64.8 30.3 90.9
 227 67.4 31.3 93.8

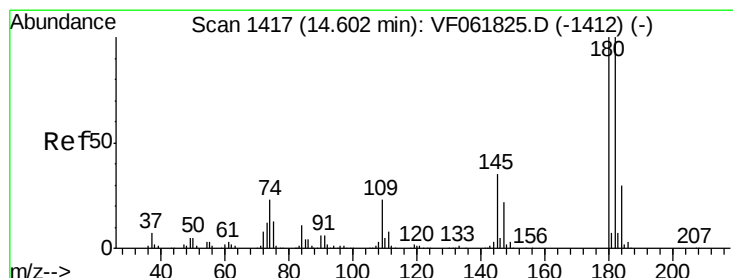
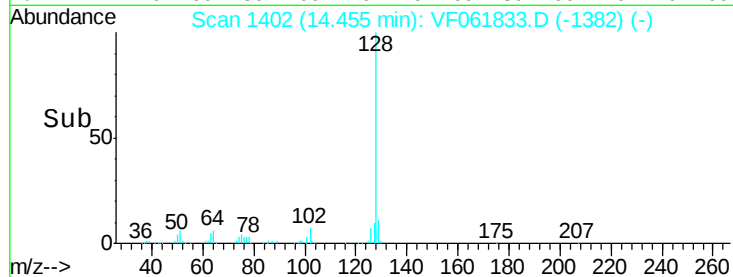
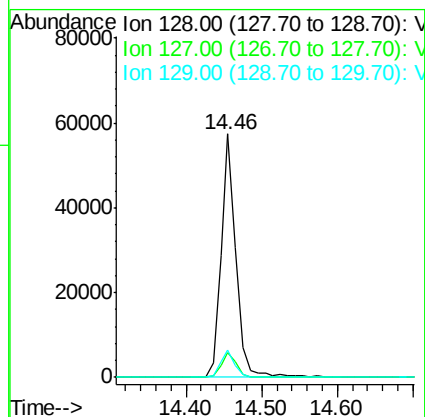
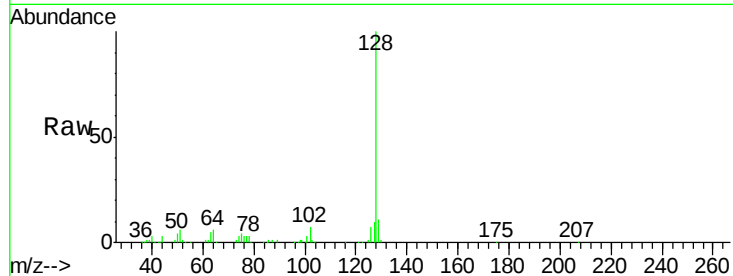




#95
Naphthalene
Concen: 9.468 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.00 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion:128 Resp: 79134
Ion Ratio Lower Upper
128 100
127 10.4 9.3 13.9
129 11.0 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 9.652 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF061833.D
Acq: 4 Mar 2019 22:16

Tgt Ion:180 Resp: 41818
Ion Ratio Lower Upper
180 100
182 95.1 50.2 150.7
145 30.0 17.5 52.5

