

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF022519\
 Data File : VF061733.D
 Acq On : 25 Feb 2019 16:35
 Operator : VA/AP
 Sample : K1560-02LOQ
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Feb 26 04:47:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	334379	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.59	114	478422	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	415022	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	251639	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	131348	53.57	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	107.14%	
35) Dibromofluoromethane	4.11	113	189627	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
50) Toluene-d8	7.56	98	522928	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	
62) 4-Bromofluorobenzene	11.41	95	220833	53.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.88%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	43812	11.409	ug/l	94
3) Chloromethane	1.10	50	40241	9.988	ug/l	99
4) Vinyl Chloride	1.14	62	38757	10.348	ug/l	94
5) Bromomethane	1.32	94	27662	10.731	ug/l	98
6) Chloroethane	1.39	64	18426	9.983	ug/l	99
7) Trichlorofluoromethane	1.48	101	44454	9.840	ug/l	97
8) Diethyl Ether	1.63	74	10215	8.973	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	1.83	101	33409	10.251	ug/l	91
10) Methyl Iodide	1.91	142	49747	7.991	ug/l	98
11) Tert butyl alcohol	2.58	59	6765	47.671	ug/l	96
12) 1,1-Dichloroethene	1.80	96	28963	10.108	ug/l	86
13) Acrolein	2.00	56	8345	46.789	ug/l	92
14) Allyl chloride	2.09	41	34949	9.940	ug/l	95
15) Acrylonitrile	2.94	53	21712	43.134	ug/l	89
16) Acetone	2.24	43	24339	46.263	ug/l	94
17) Carbon Disulfide	1.83	76	66717	7.408	ug/l	97
18) Methyl Acetate	2.43	43	9663	8.153	ug/l	94
19) Methyl tert-butyl Ether	2.43	73	48465	9.897	ug/l	98
20) Methylene Chloride	2.18	84	12567	2.040	ug/l	91
21) trans-1,2-Dichloroethene	2.31	96	32299	10.370	ug/l	93
22) Diisopropyl ether	2.80	45	90259	10.694	ug/l	98
23) Vinyl Acetate	3.19	43	183452	44.502	ug/l	99
24) 1,1-Dichloroethane	2.87	63	53049	10.386	ug/l	95
25) 2-Butanone	4.33	43	53810	46.825	ug/l	92
26) 2,2-Dichloropropane	3.59	77	23356	10.796	ug/l	94
27) cis-1,2-Dichloroethene	3.47	96	40790	9.977	ug/l	99
28) Bromochloromethane	3.73	49	23017	9.392	ug/l	85
29) Tetrahydrofuran	4.07	42	24422	46.758	ug/l	92
30) Chloroform	3.86	83	58592	10.087	ug/l	89
31) Cyclohexane	3.69	56	34844	6.302	ug/l	92
32) 1,1,1-Trichloroethane	4.09	97	41866	11.003	ug/l	90
36) 1,1-Dichloropropene	4.27	75	48861	10.310	ug/l	92
37) Ethyl Acetate	4.11	43	19460	8.840	ug/l #	75
38) Carbon Tetrachloride	3.99	117	38032	11.621	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF022519\
 Data File : VF061733.D
 Acq On : 25 Feb 2019 16:35
 Operator : VA/AP
 Sample : K1560-02LOQ
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Feb 26 04:47:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	54632	9.747	ug/l	94
40) Benzene	4.63	78	122262	9.863	ug/l	97
41) Methacrylonitrile	4.75	41	11526	10.238	ug/l #	89
42) 1,2-Dichloroethane	4.94	62	31101	10.488	ug/l	93
43) Isopropyl Acetate	6.96	43	23592	9.054	ug/l #	86
44) Trichloroethene	5.49	130	43442	10.837	ug/l	100
45) 1,2-Dichloropropane	6.23	63	30783	10.273	ug/l	96
46) Dibromomethane	6.08	93	17900	9.702	ug/l	89
47) Bromodichloromethane	6.38	83	42124	10.426	ug/l #	95
48) Methyl methacrylate	6.72	41	15680	10.000	ug/l	94
49) 1,4-Dioxane	6.71	88	2878	195.243	ug/l #	77
51) 4-Methyl-2-Pentanone	8.26	43	91247	49.009	ug/l	95
52) Toluene	7.62	92	79479	10.571	ug/l	97
53) t-1,3-Dichloropropene	8.28	75	39025	11.606	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	47514	10.609	ug/l	98
55) 1,1,2-Trichloroethane	8.49	97	22615	10.238	ug/l	94
56) Ethyl methacrylate	8.62	69	22178	9.018	ug/l #	85
57) 1,3-Dichloropropane	8.85	76	36587	9.923	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.29	63	15421	36.342	ug/l #	87
59) 2-Hexanone	9.49	43	66455	50.920	ug/l	96
60) Dibromochloromethane	8.72	129	30244	9.837	ug/l	87
61) 1,2-Dibromoethane	8.99	107	26004	10.854	ug/l	91
64) Tetrachloroethene	8.15	164	37428	11.033	ug/l	92
65) Chlorobenzene	9.79	112	88683	10.530	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	37224	11.280	ug/l	99
67) Ethyl Benzene	9.90	91	161468	11.529	ug/l	96
68) m/p-Xylenes	10.13	106	117448	21.912	ug/l	95
69) o-Xylene	10.71	106	61998	10.840	ug/l	99
70) Styrene	10.79	104	90811	11.224	ug/l	96
71) Bromoform	10.77	173	18745	10.460	ug/l	95
73) Isopropylbenzene	11.12	105	184024	10.271	ug/l	98
74) N-amyl acetate	11.37	43	40803	9.488	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	31254	9.737	ug/l	99
76) 1,2,3-Trichloropropane	11.80	75	20118	9.219	ug/l	89
77) Bromobenzene	11.49	156	42572	9.618	ug/l	93
78) n-propylbenzene	11.59	91	223783	10.885	ug/l	94
79) 2-Chlorotoluene	11.72	91	126533	10.989	ug/l	93
80) 1,3,5-Trimethylbenzene	11.82	105	153883	10.747	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	12452	11.902	ug/l	93
82) 4-Chlorotoluene	11.89	91	121916	10.201	ug/l	93
83) tert-Butylbenzene	12.13	119	170036	10.721	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	153898	10.818	ug/l	96
85) sec-Butylbenzene	12.31	105	220038	10.728	ug/l	100
86) p-Isopropyltoluene	12.46	119	182931	10.628	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	91849	10.645	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	87849	10.586	ug/l	97
89) n-Butylbenzene	12.84	91	176808	10.878	ug/l	97
90) Hexachloroethane	12.92	117	42871	10.709	ug/l	100
91) 1,2-Dichlorobenzene	12.94	146	85285	10.391	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.64	75	4393	8.632	ug/l	77

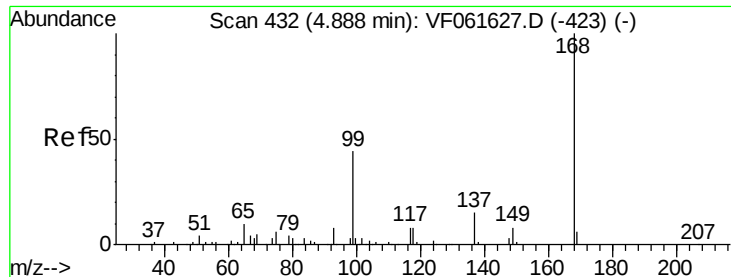
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF022519\
Data File : VF061733.D
Acq On : 25 Feb 2019 16:35
Operator : VA/AP
Sample : K1560-02LOQ
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Feb 26 04:47:16 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	57564	9.785	ug/l	98
94) Hexachlorobutadiene	14.19	225	36859	10.145	ug/l	97
95) Naphthalene	14.46	128	92337	8.971	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	52579	9.738	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

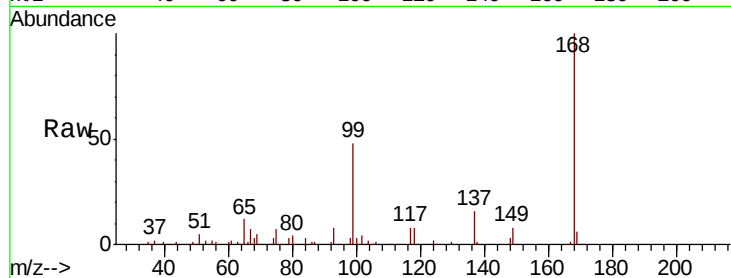
LOQ-SOIL-02-QT1-2019

Tgt Ion:168 Resp: 334379

Ion Ratio Lower Upper

168 100

99 47.6 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

120000

100000

80000

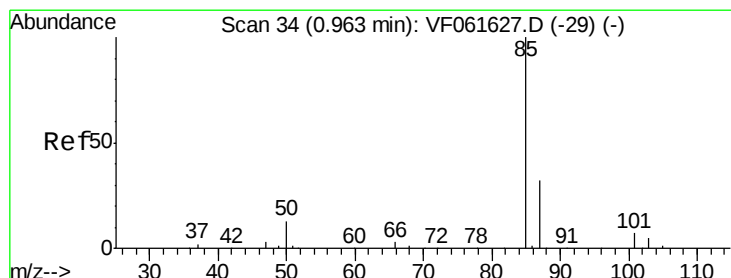
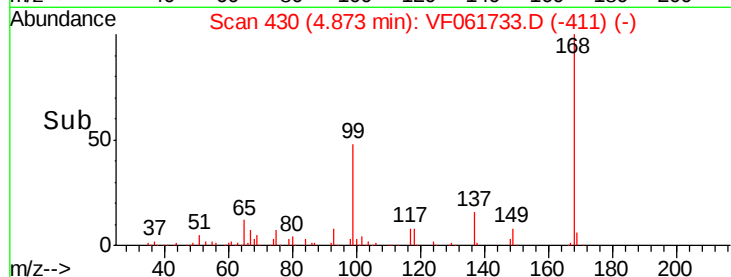
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 11.409 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061733.D

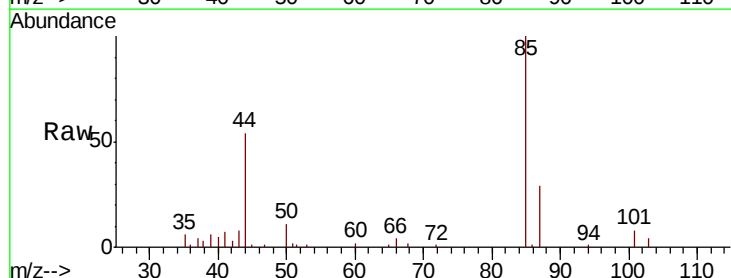
Acq: 25 Feb 2019 16:35

Tgt Ion: 85 Resp: 43812

Ion Ratio Lower Upper

85 100

87 28.6 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

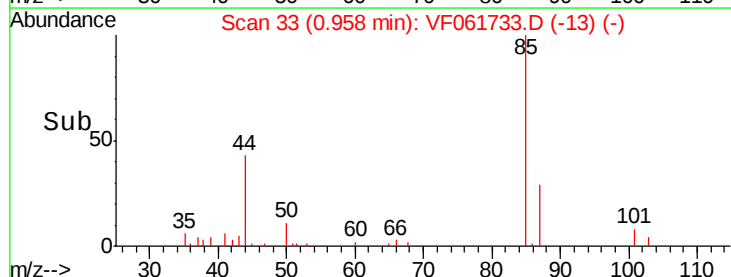
0.96

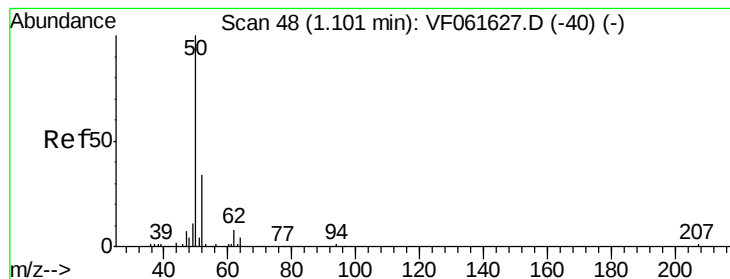
10000

5000

0

Time--> 0.90 1.00 1.10





#3

Chloromethane

Concen: 9.988 ug/l

RT: 1.10 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

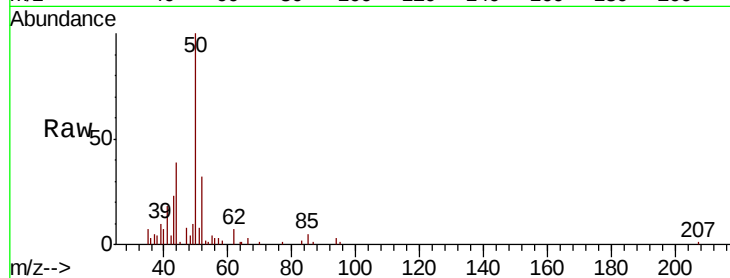
LOQ-SOIL-02-QT1-2019

Tgt Ion: 50 Resp: 40241

Ion Ratio Lower Upper

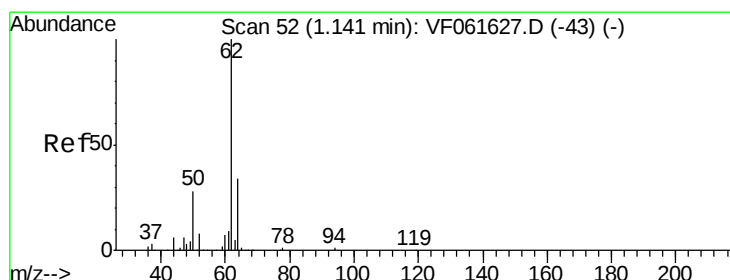
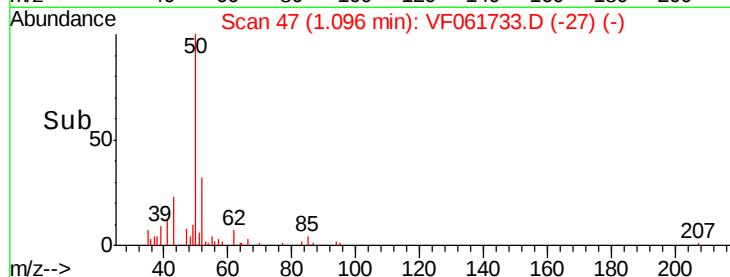
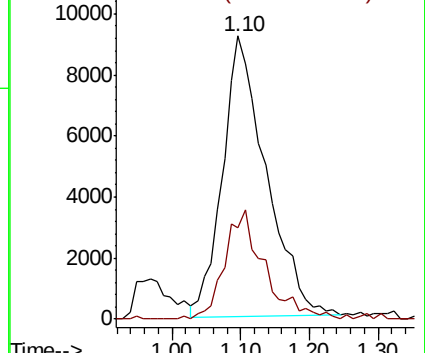
50 100

52 32.3 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 10.348 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061733.D

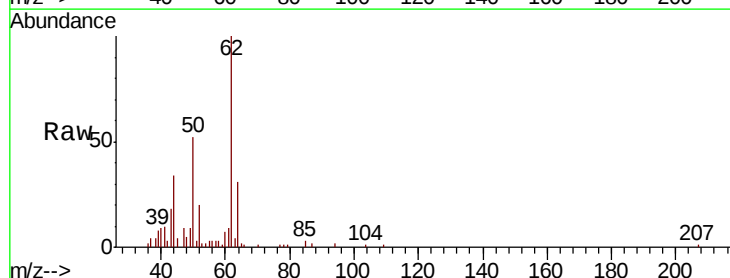
Acq: 25 Feb 2019 16:35

Tgt Ion: 62 Resp: 38757

Ion Ratio Lower Upper

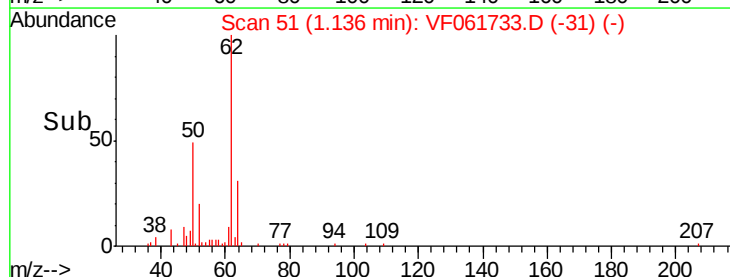
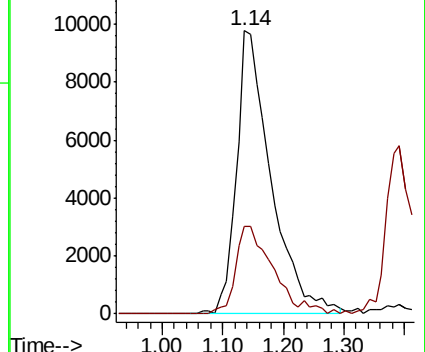
62 100

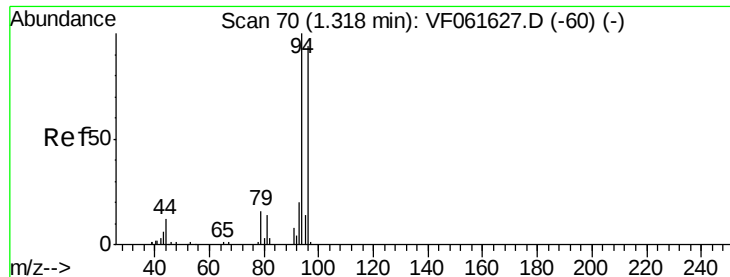
64 30.7 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 10.731 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

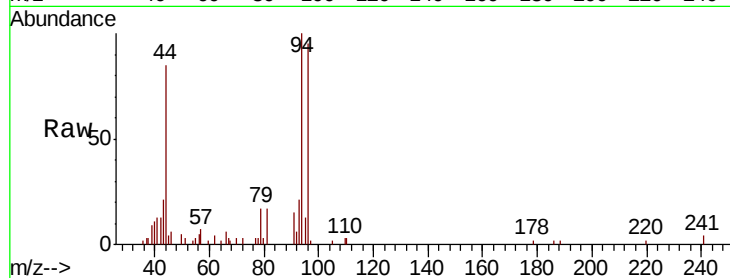
LOQ-SOIL-02-QT1-2019

Tgt Ion: 94 Resp: 27662

Ion Ratio Lower Upper

94 100

96 95.5 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.32

6000

5000

4000

3000

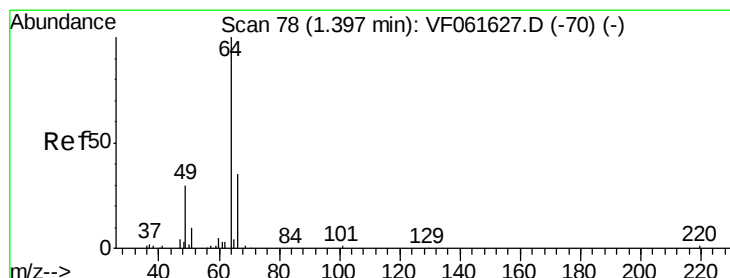
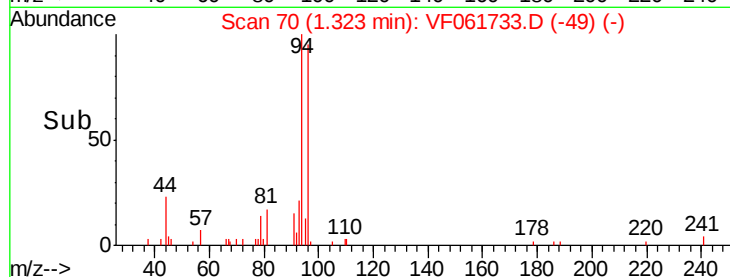
2000

1000

0

Time-->

1.10 1.20 1.30 1.40 1.50



#6

Chloroethane

Concen: 9.983 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061733.D

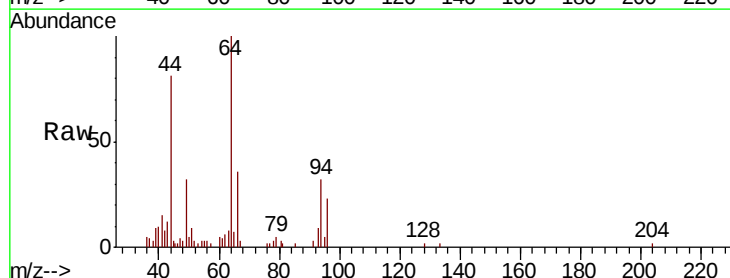
Acq: 25 Feb 2019 16:35

Tgt Ion: 64 Resp: 18426

Ion Ratio Lower Upper

64 100

66 35.6 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.39

6000

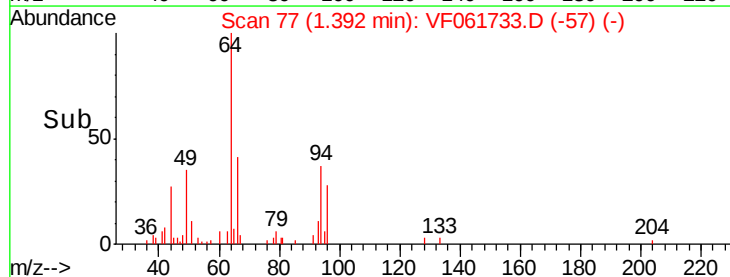
4000

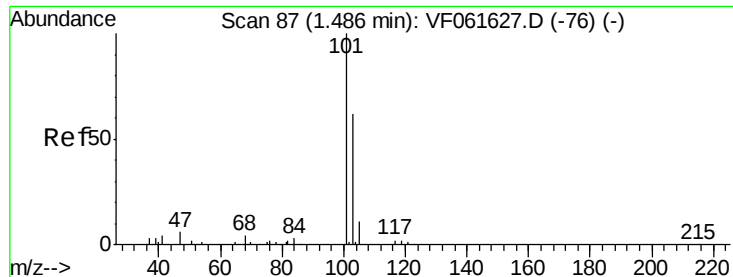
2000

0

Time-->

1.30 1.40 1.50





#7

Trichlorofluoromethane

Concen: 9.840 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

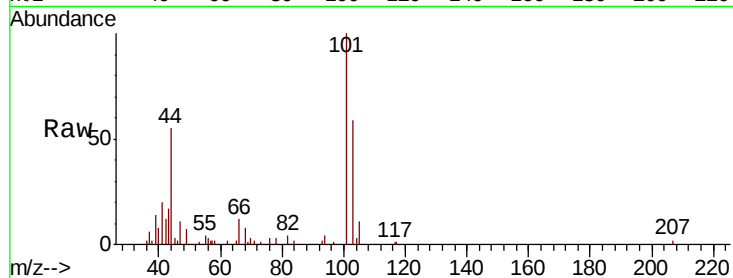
LOQ-SOIL-02-QT1-2019

Tgt Ion:101 Resp: 44454

Ion Ratio Lower Upper

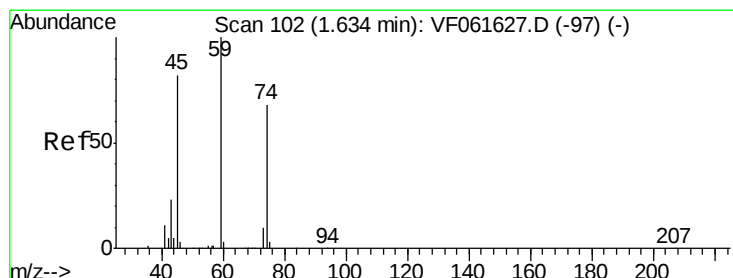
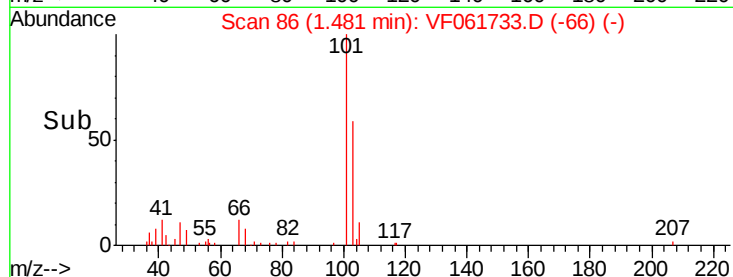
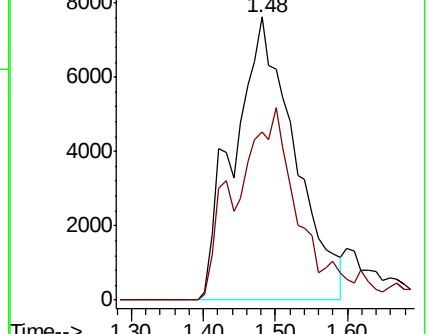
101 100

103 59.5 49.3 73.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 8.973 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061733.D

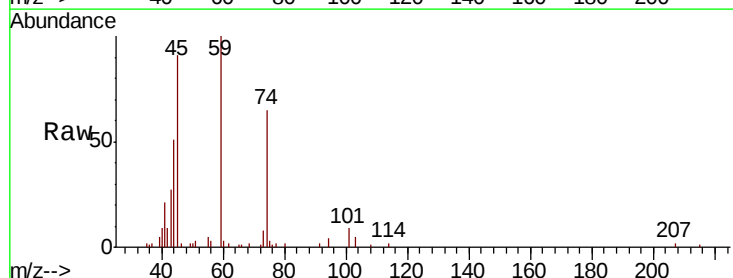
Acq: 25 Feb 2019 16:35

Tgt Ion: 74 Resp: 10215

Ion Ratio Lower Upper

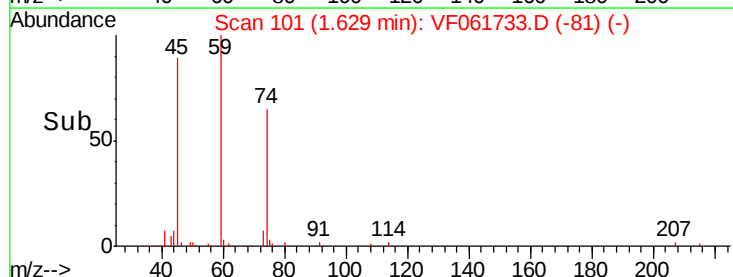
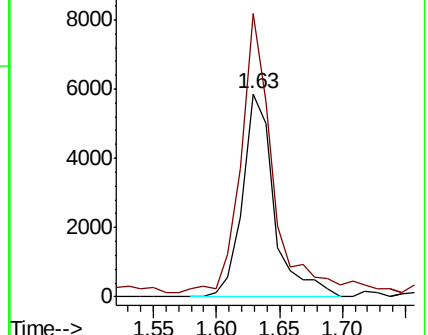
74 100

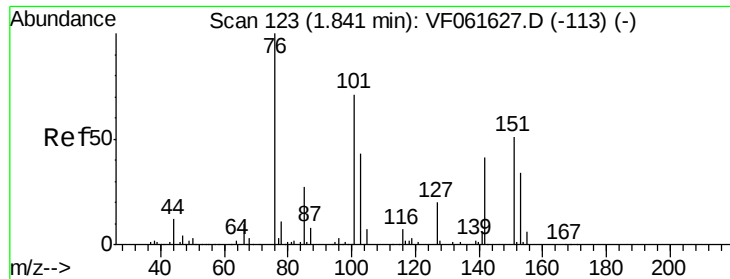
45 139.2 60.8 182.3



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: 10.251 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

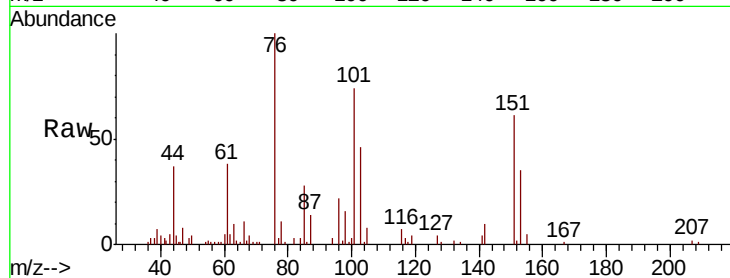
Tgt Ion:101 Resp: 33409

Ion Ratio Lower Upper

101 100

85 37.4 29.8 44.6

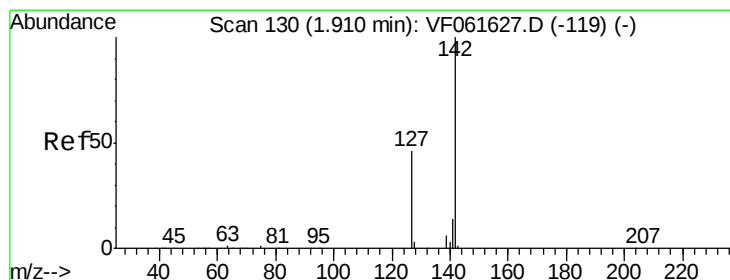
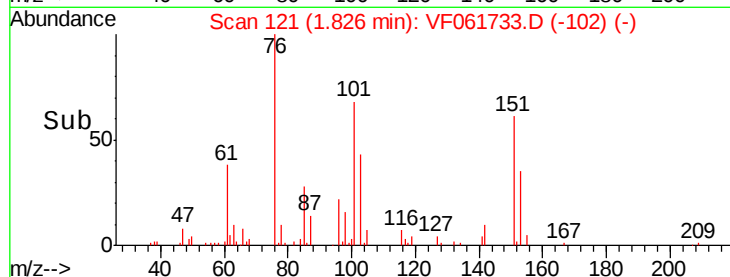
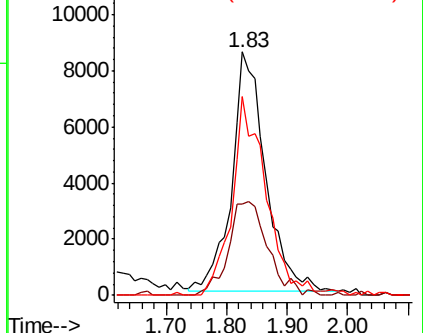
151 81.8 56.3 84.5



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: 7.991 ug/l

RT: 1.91 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

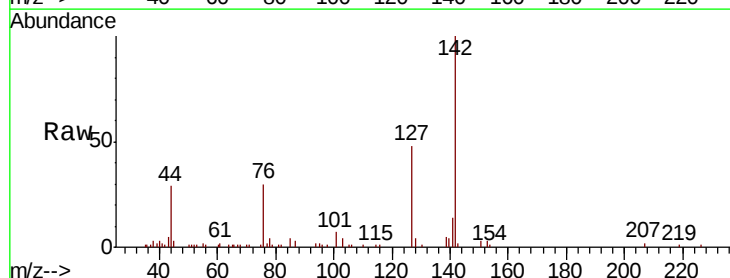
Tgt Ion:142 Resp: 49747

Ion Ratio Lower Upper

142 100

127 47.6 36.6 55.0

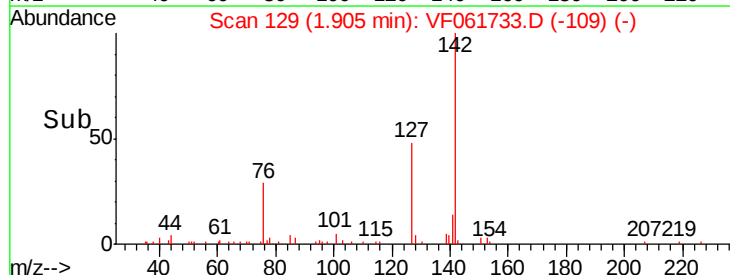
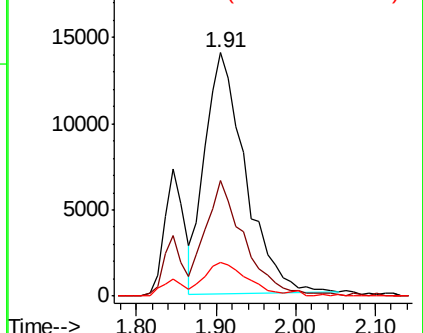
141 14.0 11.0 16.6

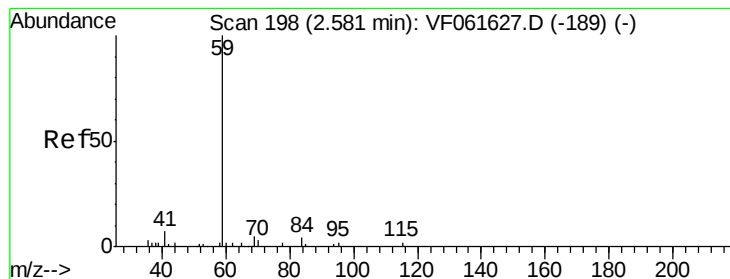


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#11

Tert butyl alcohol

Concen: 47.671 ug/l

RT: 2.58 min Scan# 197

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

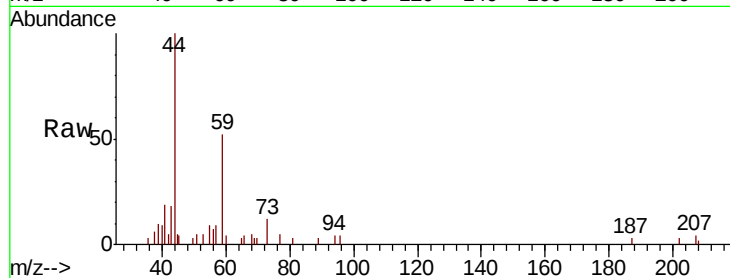
LOQ-SOIL-02-QT1-2019

Tgt Ion: 59 Resp: 6765

Ion Ratio Lower Upper

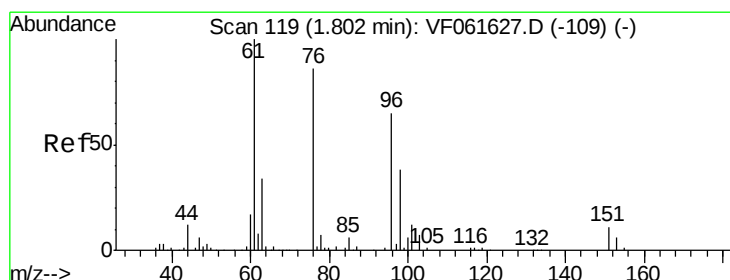
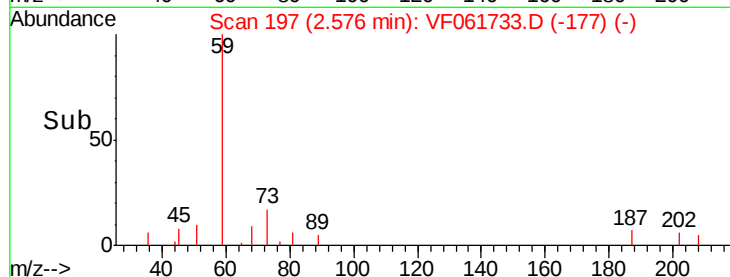
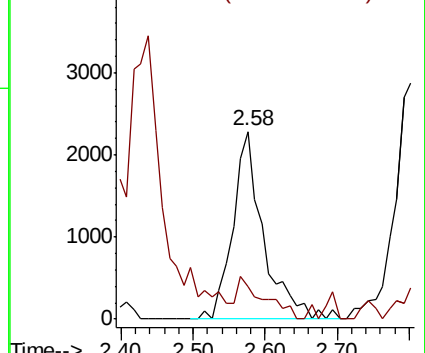
59 100

57 17.5 12.5 18.7



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#12

1,1-Dichloroethene

Concen: 10.108 ug/l

RT: 1.80 min Scan# 118

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

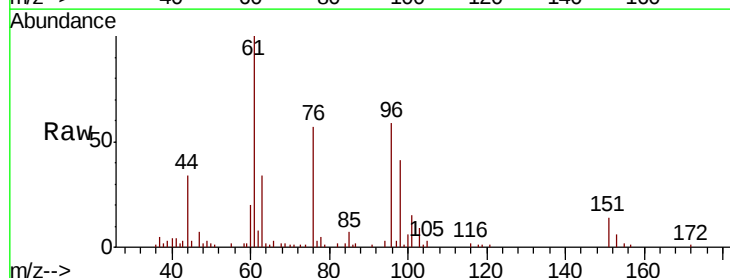
Tgt Ion: 96 Resp: 28963

Ion Ratio Lower Upper

96 100

61 170.3 122.6 184.0

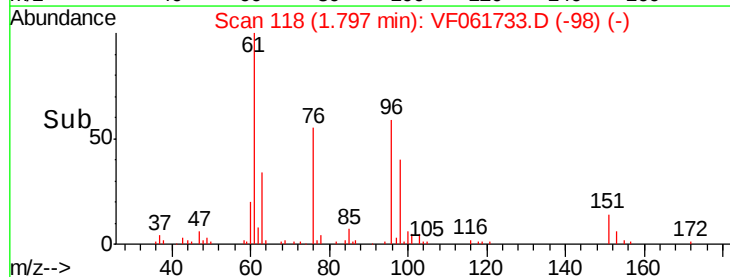
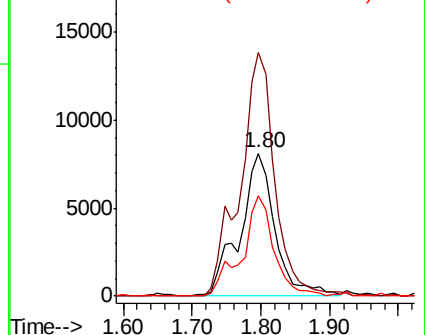
98 69.9 47.2 70.8

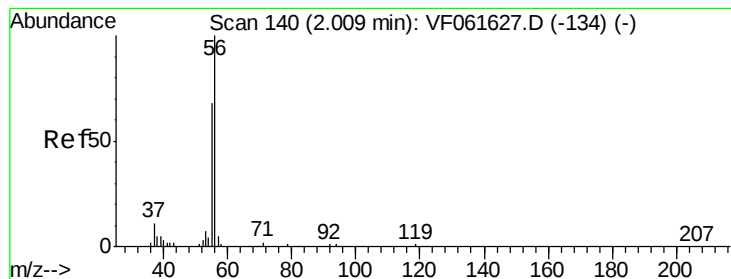


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#13

Acrolein

Concen: 46.789 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

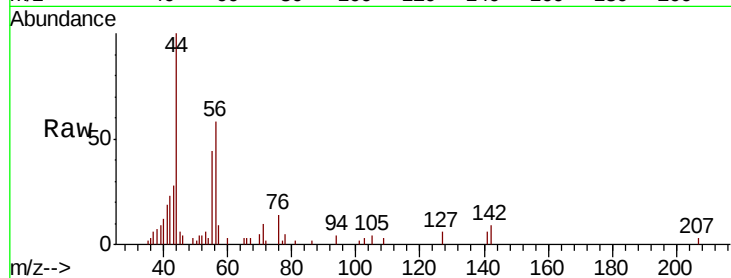
LOQ-SOIL-02-QT1-2019

Tgt Ion: 56 Resp: 8345

Ion Ratio Lower Upper

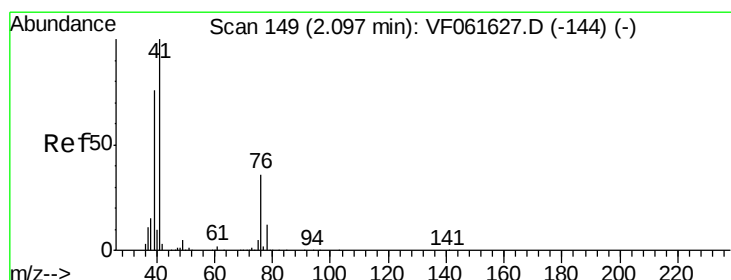
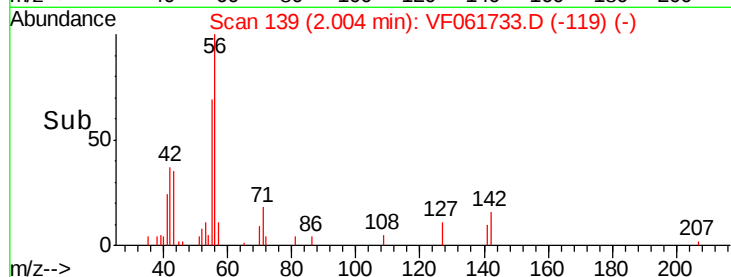
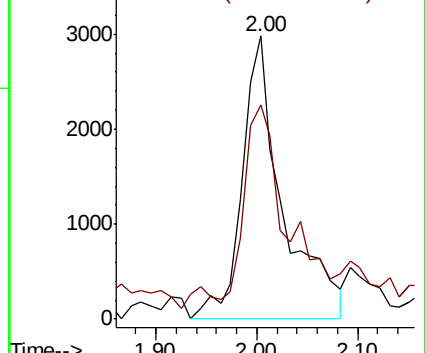
56 100

55 75.7 55.0 82.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 9.940 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

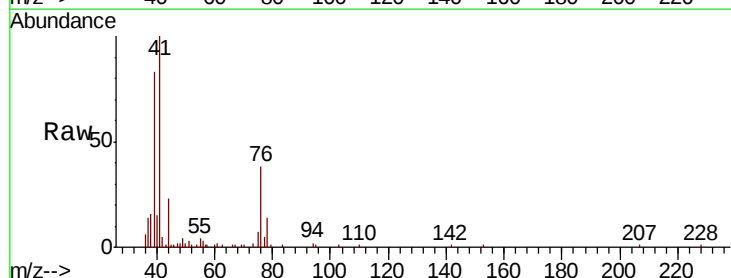
Tgt Ion: 41 Resp: 34949

Ion Ratio Lower Upper

41 100

39 83.5 61.6 92.4

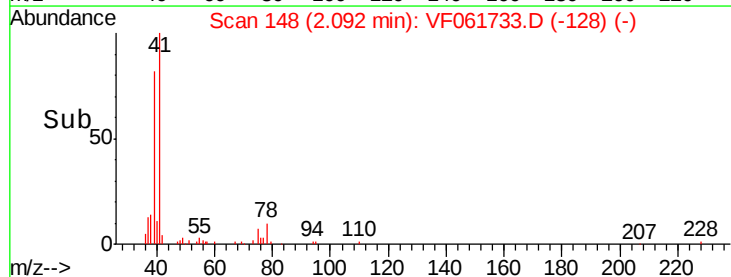
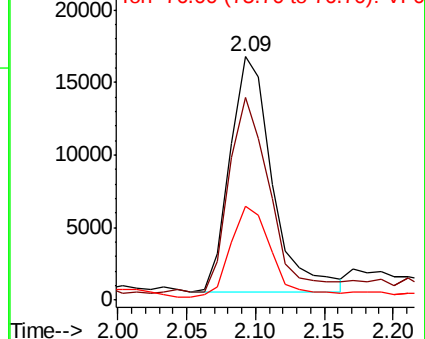
76 38.3 30.3 45.5

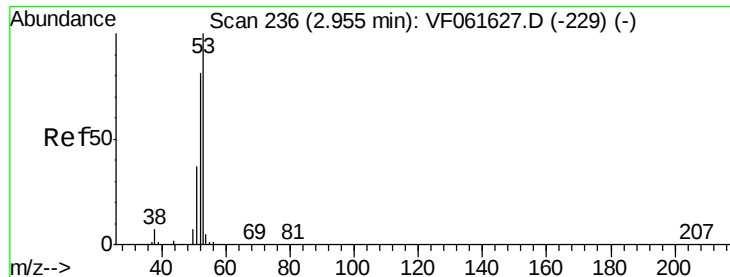


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

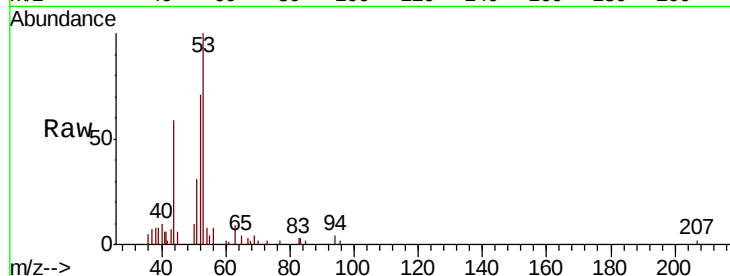




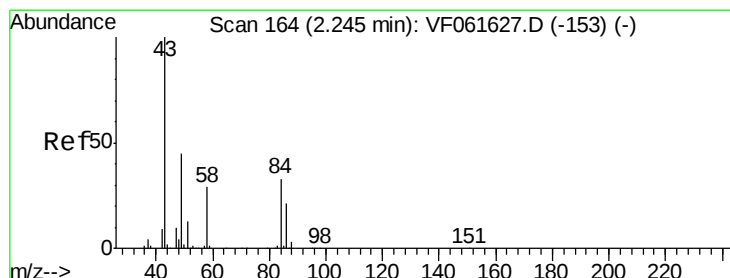
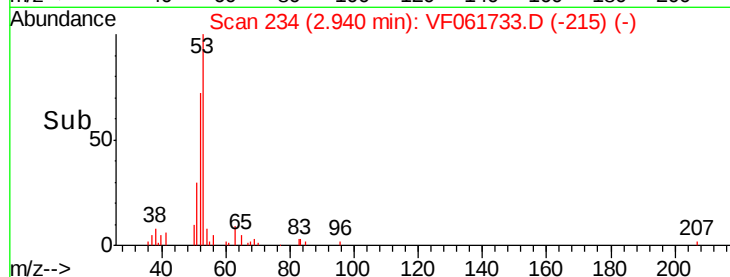
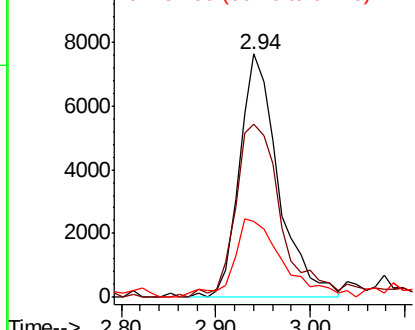
#15
 Acrylonitrile
 Concen: 43.134 ug/l
 RT: 2.94 min Scan# 234
 Delta R.T. -0.01 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

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

Tgt Ion: 53 Resp: 21712
 Ion Ratio Lower Upper
 53 100
 52 71.2 64.6 97.0
 51 31.1 29.8 44.8

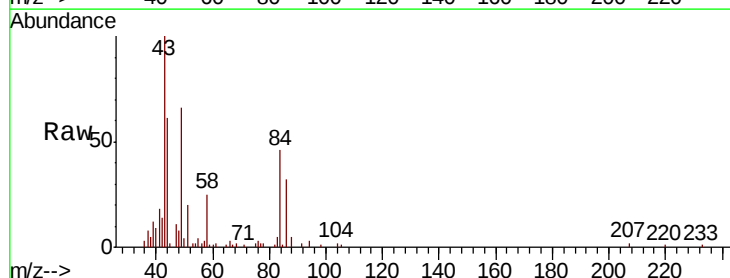


Abundance Ion 53.00 (52.70 to 53.70): VF0
 Ion 52.00 (51.70 to 52.70): VF0
 Ion 51.00 (50.70 to 51.70): VF0

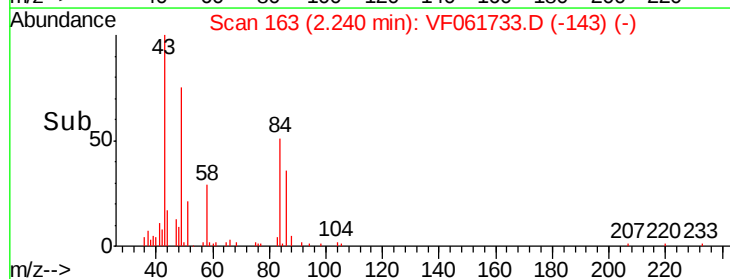
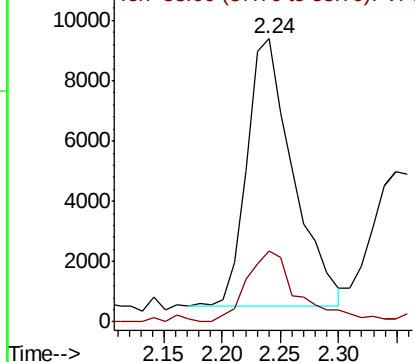


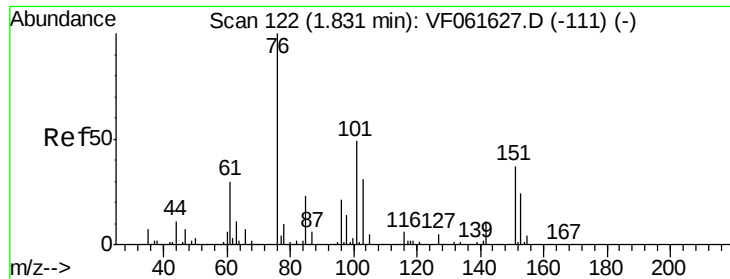
#16
 Acetone
 Concen: 46.263 ug/l
 RT: 2.24 min Scan# 163
 Delta R.T. -0.00 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

Tgt Ion: 43 Resp: 24339
 Ion Ratio Lower Upper
 43 100
 58 25.2 22.9 34.3



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

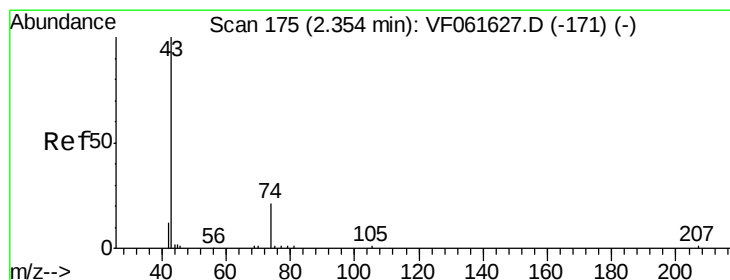
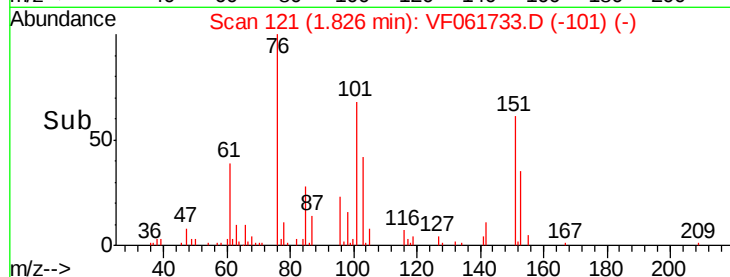
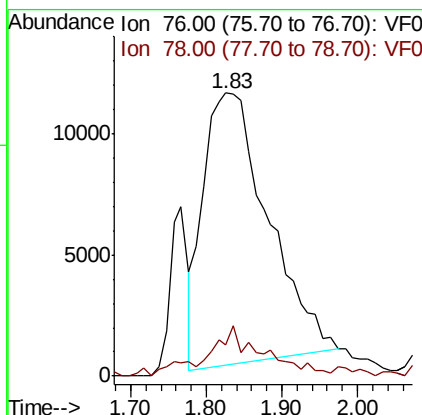
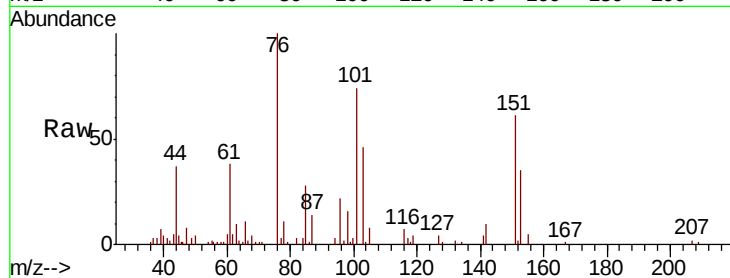




#17
Carbon Disulfide
Concen: 7.408 ug/l
RT: 1.83 min Scan# 121
Delta R.T. -0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

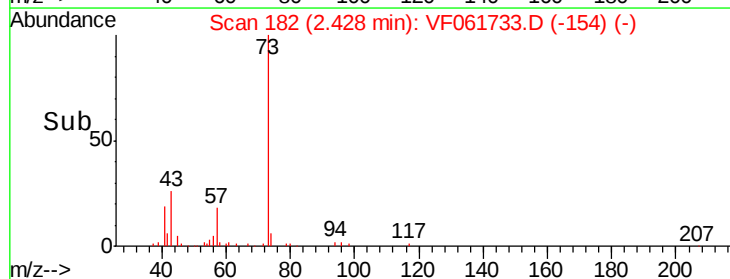
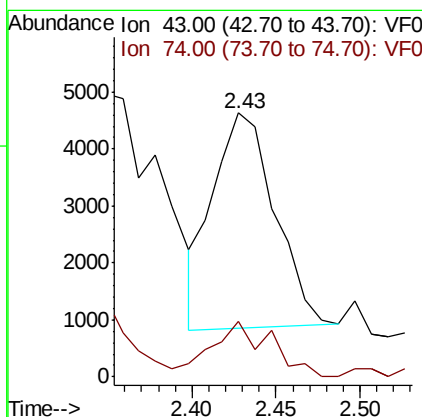
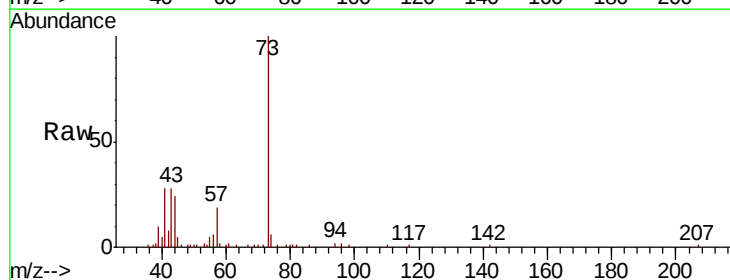
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

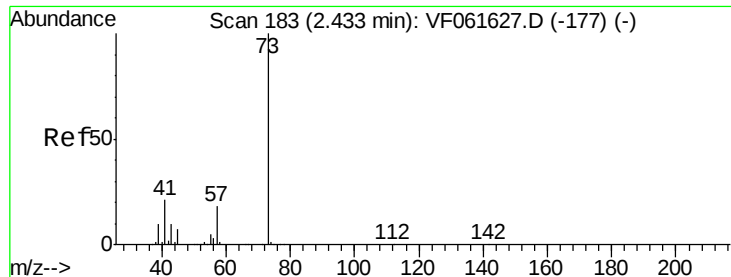
Tgt Ion: 76 Resp: 66717
Ion Ratio Lower Upper
76 100
78 10.9 7.9 11.9



#18
Methyl Acetate
Concen: 8.153 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.07 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion: 43 Resp: 9663
Ion Ratio Lower Upper
43 100
74 20.9 14.6 21.8

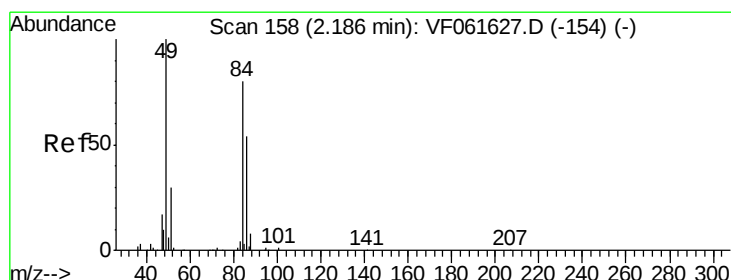
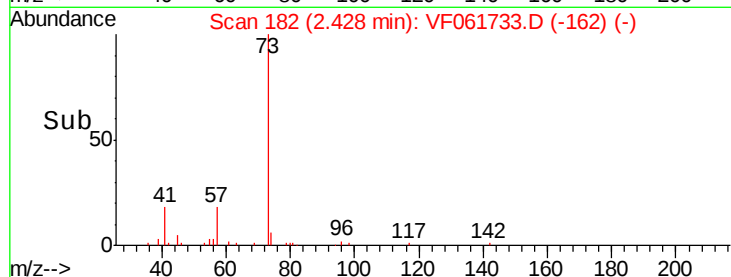
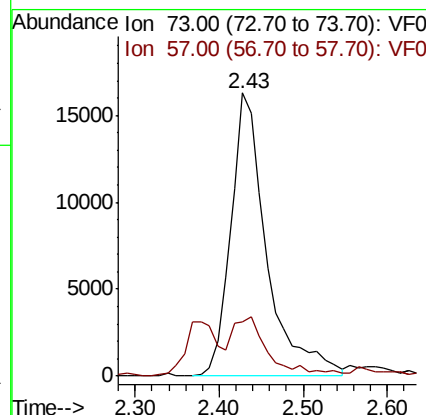
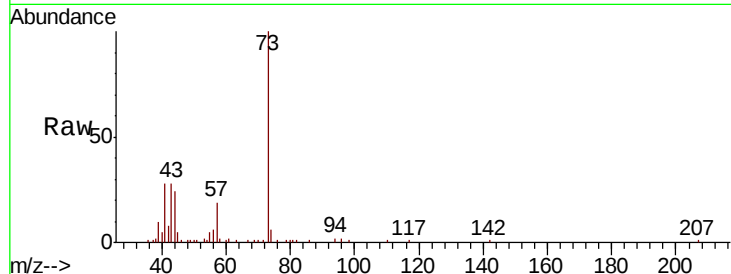




#19
Methyl tert-butyl Ether
Concen: 9.897 ug/l
RT: 2.43 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

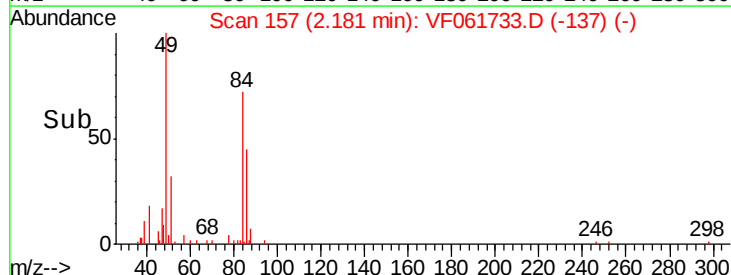
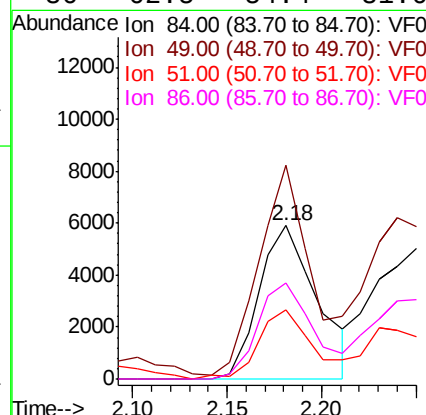
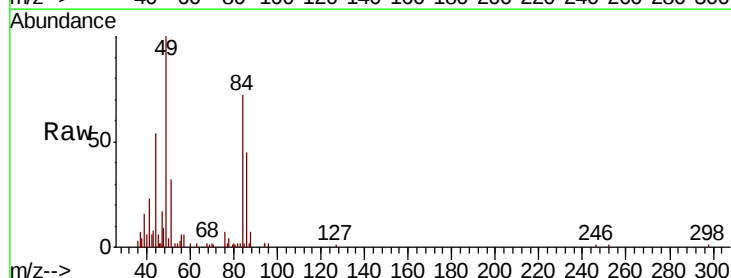
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

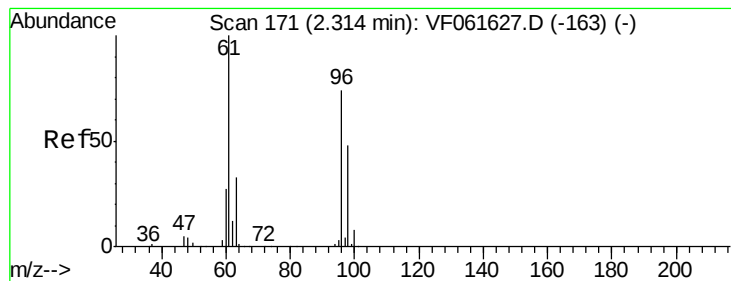
Tgt Ion: 73 Resp: 48465
Ion Ratio Lower Upper
73 100
57 19.1 15.8 23.8



#20
Methylene Chloride
Concen: 2.040 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion: 84 Resp: 12567
Ion Ratio Lower Upper
84 100
49 139.2 101.8 152.8
51 45.2 31.1 46.7
86 62.5 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 10.370 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

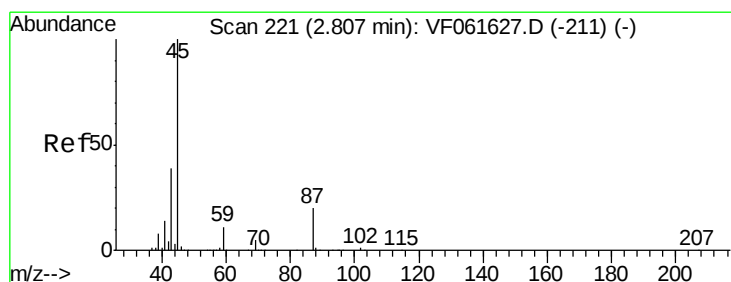
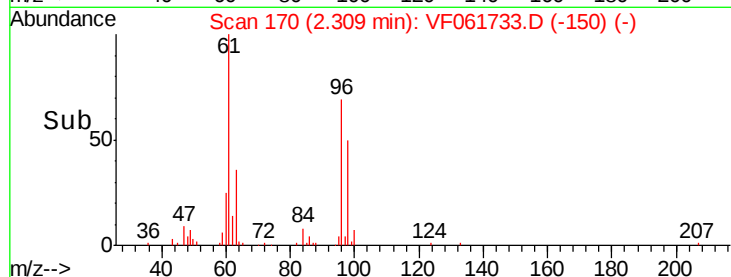
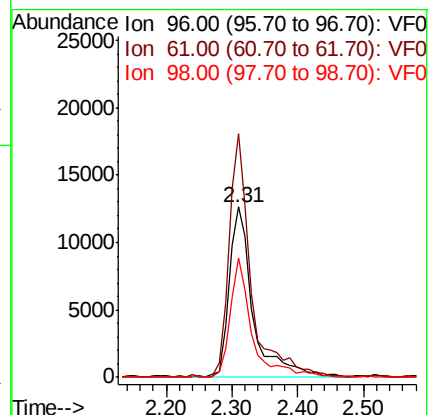
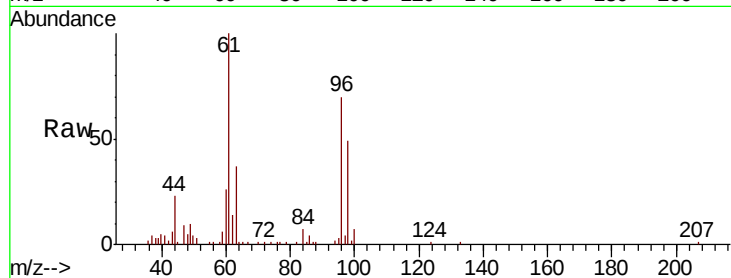
Tgt Ion: 96 Resp: 32299

Ion Ratio Lower Upper

96 100

61 143.1 108.2 162.4

98 70.5 52.2 78.2



#22

Diisopropyl ether

Concen: 10.694 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Tgt Ion: 45 Resp: 90259

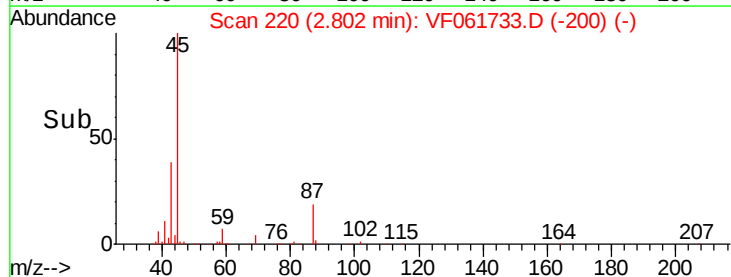
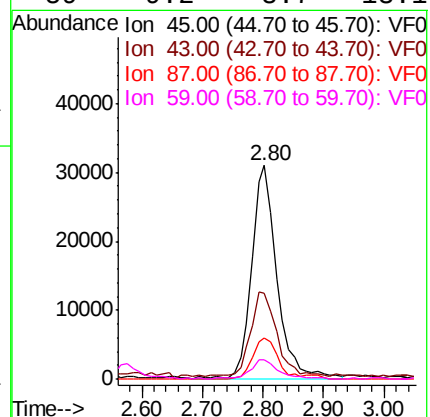
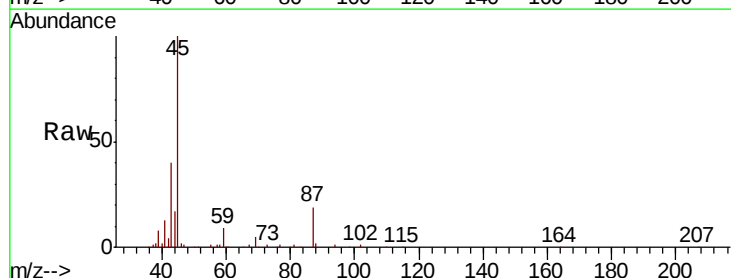
Ion Ratio Lower Upper

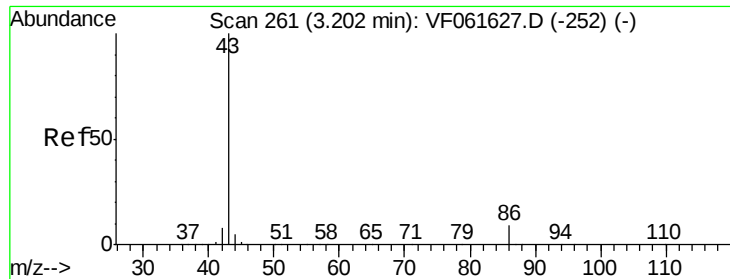
45 100

43 40.1 31.4 47.2

87 19.3 16.3 24.5

59 9.2 8.7 13.1





#23

Vinyl Acetate

Concen: 44.502 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

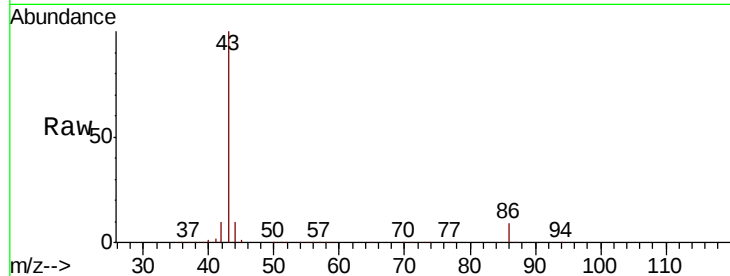
LOQ-SOIL-02-QT1-2019

Tgt Ion: 43 Resp: 183452

Ion Ratio Lower Upper

43 100

86 9.0 7.5 11.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.19

60000

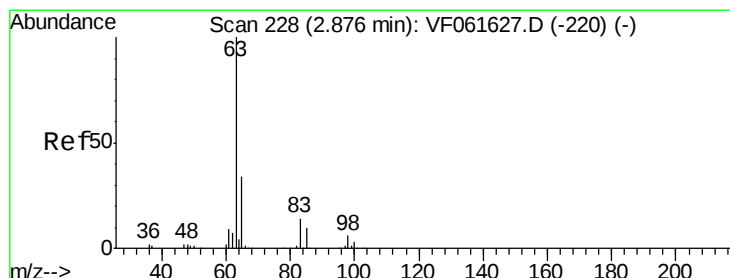
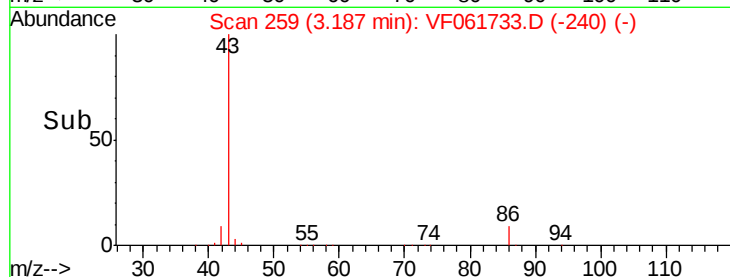
40000

20000

0

Time-->

3.10 3.20 3.30



#24

1,1-Dichloroethane

Concen: 10.386 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

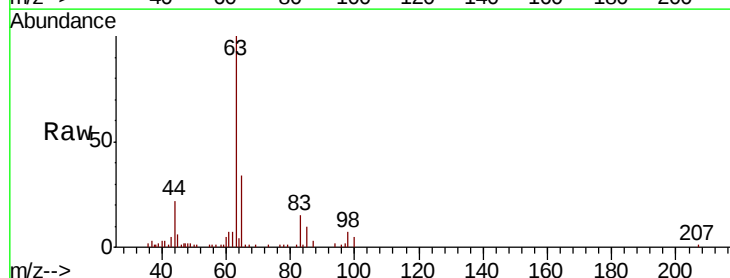
Tgt Ion: 63 Resp: 53049

Ion Ratio Lower Upper

63 100

98 7.5 2.8 8.3

100 4.7 1.8 5.4



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

25000

20000

15000

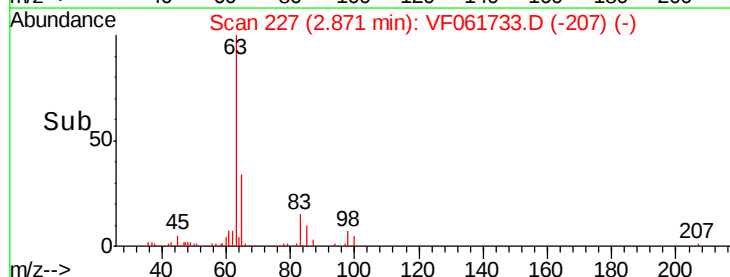
10000

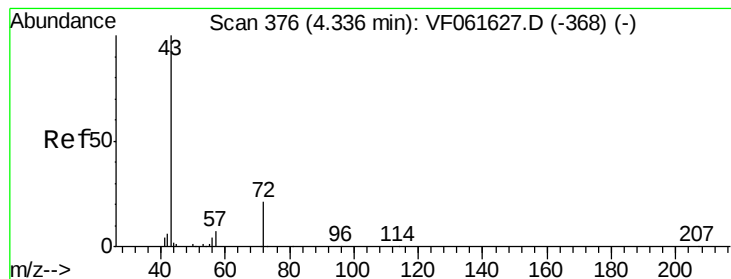
5000

0

Time-->

2.70 2.80 2.90 3.00 3.10





#25

2-Butanone

Concen: 46.825 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

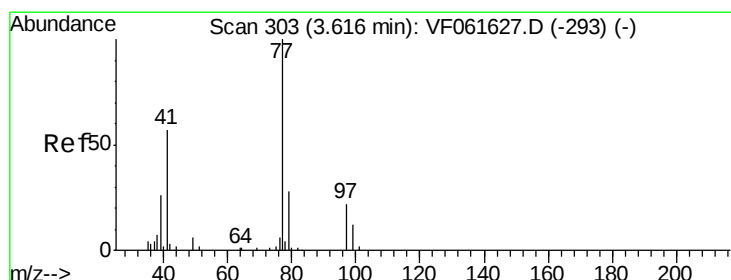
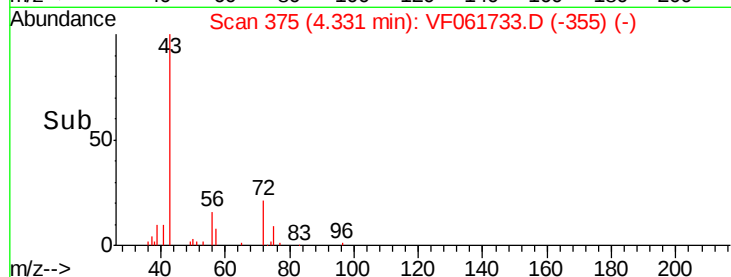
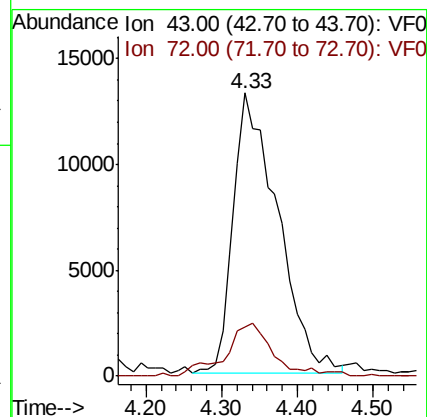
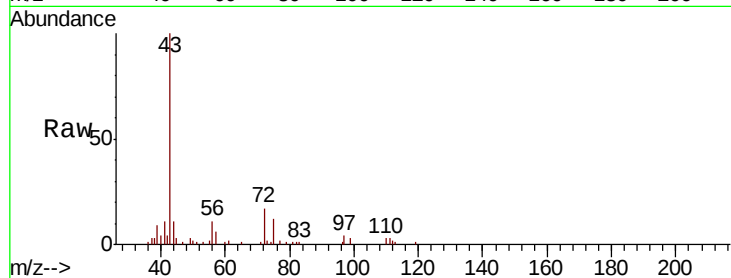
LOQ-SOIL-02-QT1-2019

Tgt Ion: 43 Resp: 53810

Ion Ratio Lower Upper

43 100

72 17.5 17.1 25.7



#26

2,2-Dichloropropane

Concen: 10.796 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.02 min

Lab File: VF061733.D

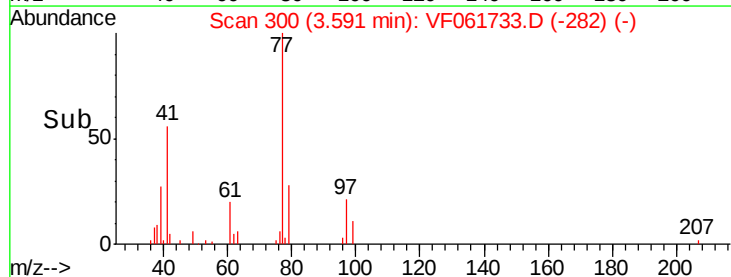
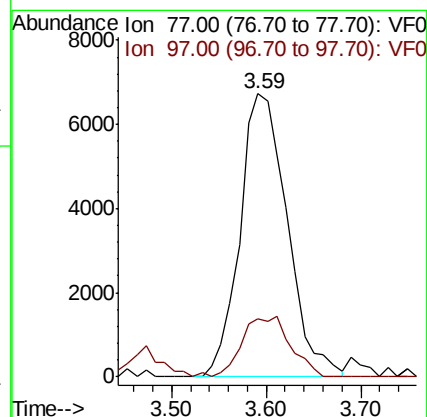
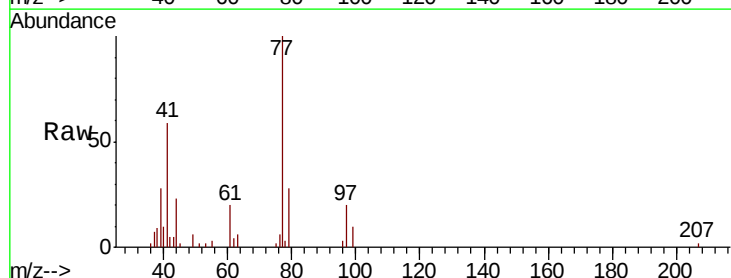
Acq: 25 Feb 2019 16:35

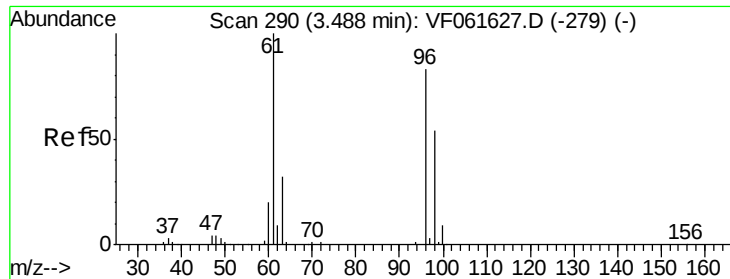
Tgt Ion: 77 Resp: 23356

Ion Ratio Lower Upper

77 100

97 20.5 11.7 35.0



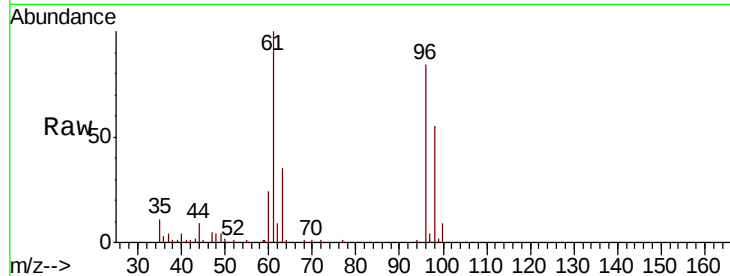


#27

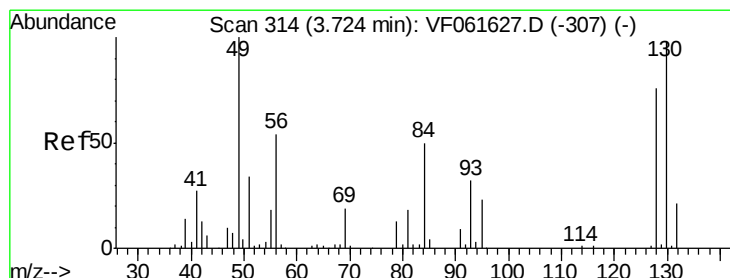
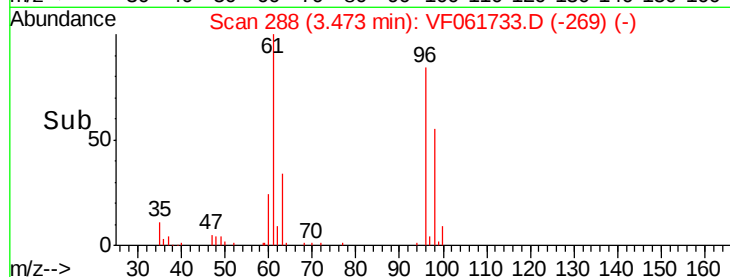
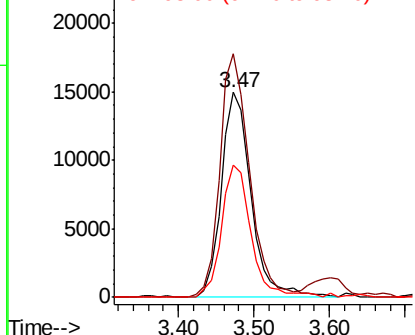
cis-1,2-Dichloroethene
Concen: 9.977 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

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

Tgt Ion: 96 Resp: 40790
Ion Ratio Lower Upper
96 100
61 118.7 0.0 241.6
98 64.7 0.0 130.2



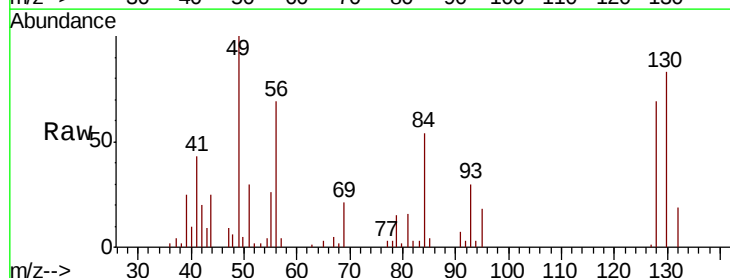
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



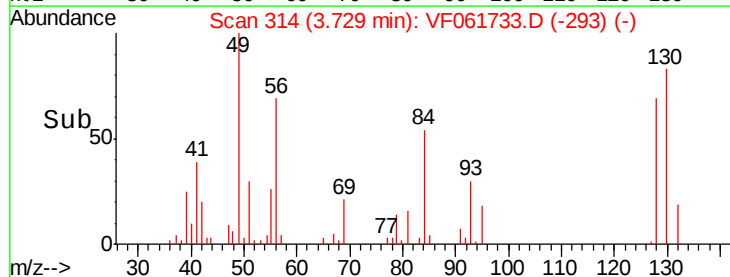
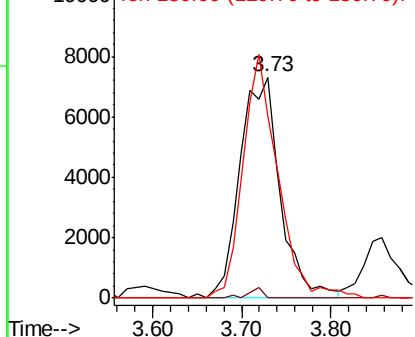
#28

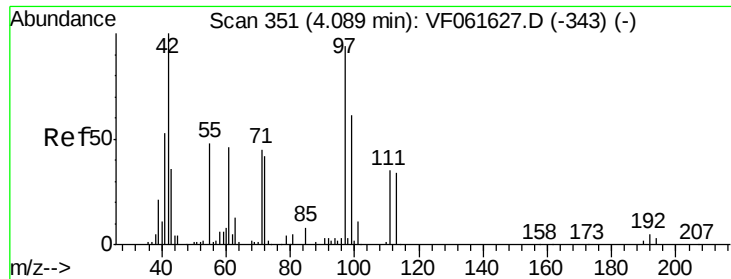
Bromochloromethane
Concen: 9.392 ug/l
RT: 3.73 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion: 49 Resp: 23017
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.4
130 82.6 77.7 116.5



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 46.758 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

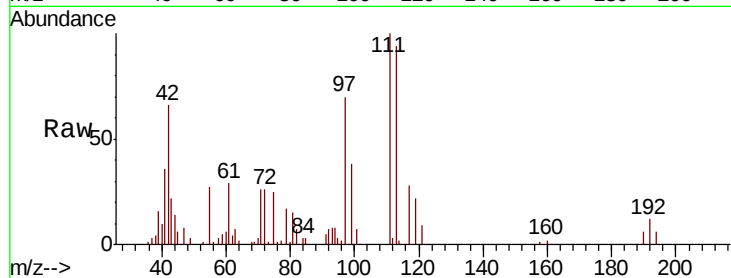
Tgt Ion: 42 Resp: 24422

Ion Ratio Lower Upper

42 100

72 36.3 35.2 52.8

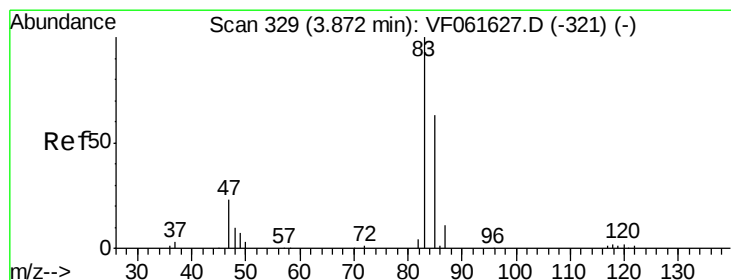
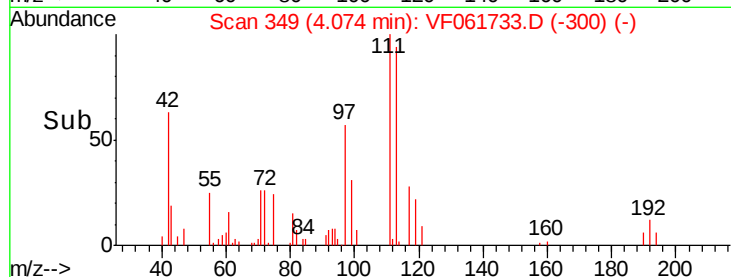
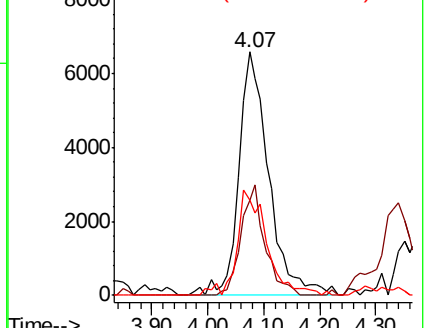
71 43.2 32.9 49.3



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: 10.087 ug/l

RT: 3.86 min Scan# 327

Delta R.T. -0.01 min

Lab File: VF061733.D

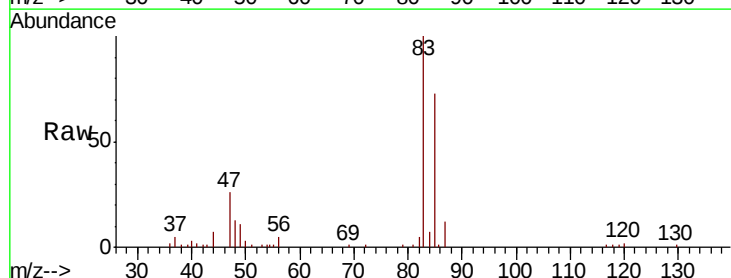
Acq: 25 Feb 2019 16:35

Tgt Ion: 83 Resp: 58592

Ion Ratio Lower Upper

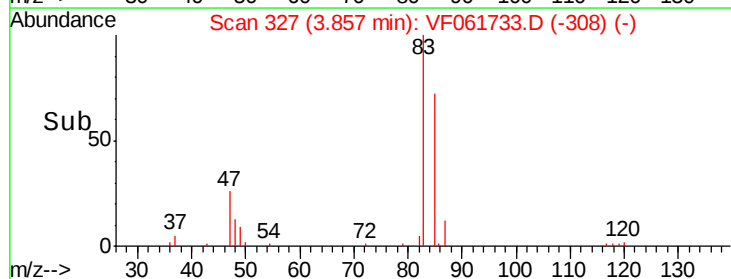
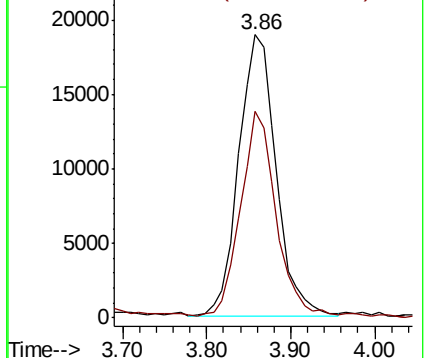
83 100

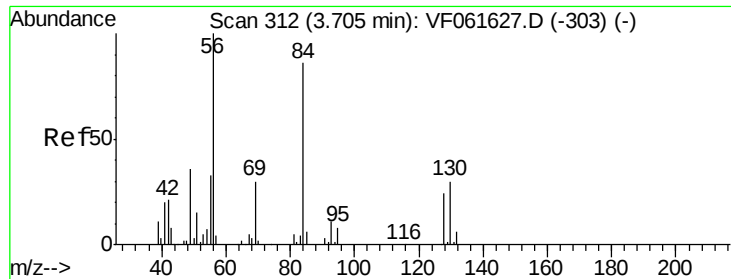
85 72.9 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

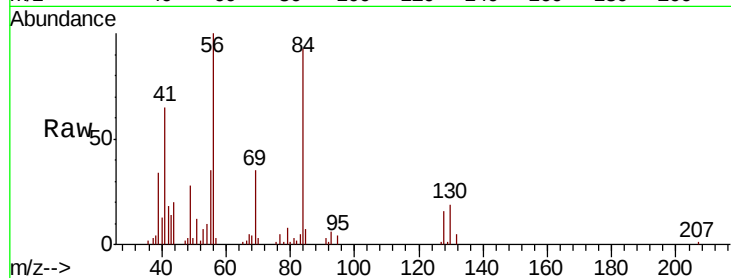




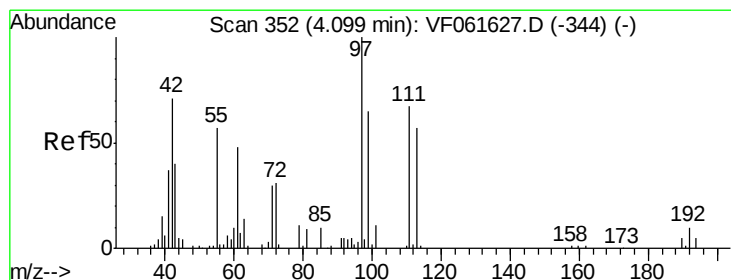
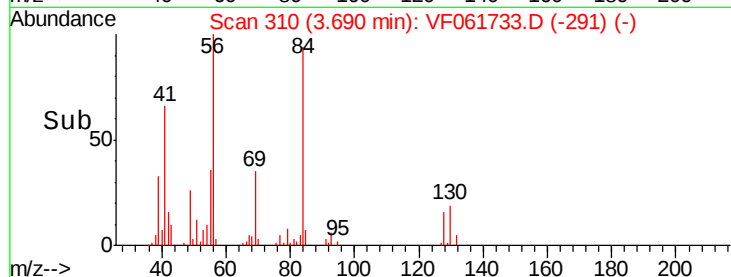
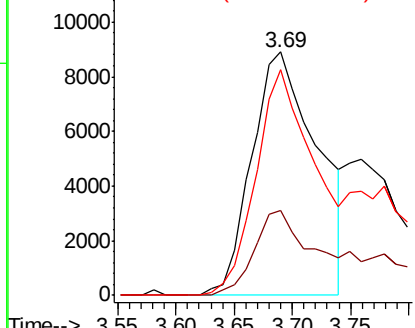
#31
Cyclohexane
Concen: 6.302 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

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

Tgt Ion: 56 Resp: 34844
Ion Ratio Lower Upper
56 100
69 35.1 23.8 35.8
84 92.8 68.6 103.0

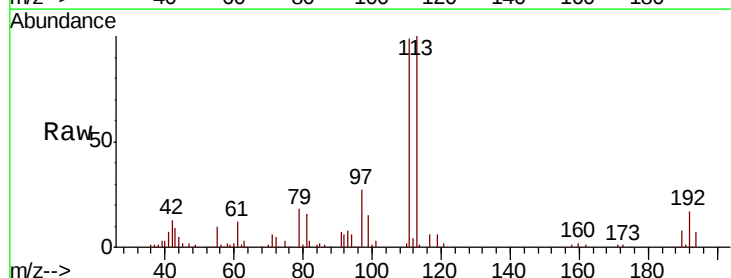


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

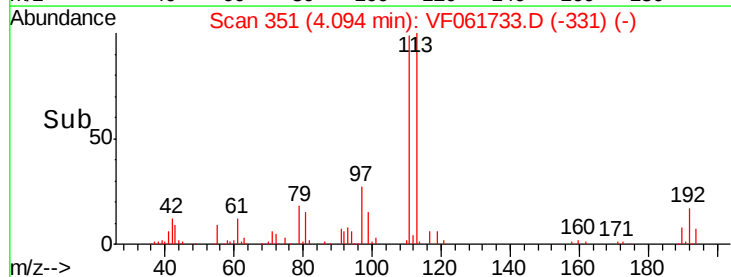
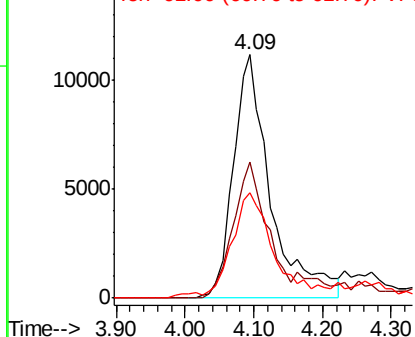


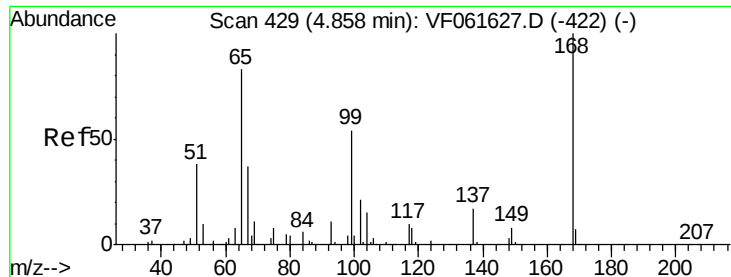
#32
1,1,1-Trichloroethane
Concen: 11.003 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion: 97 Resp: 41866
Ion Ratio Lower Upper
97 100
99 55.9 52.2 78.2
61 43.4 39.2 58.8



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

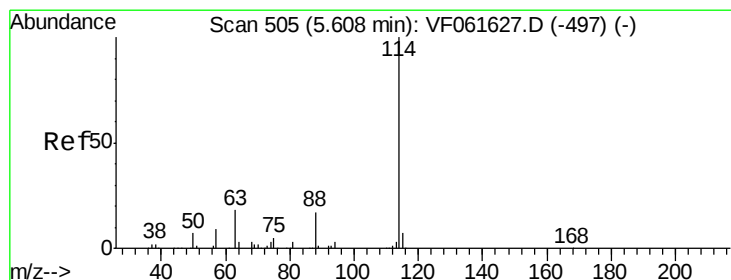
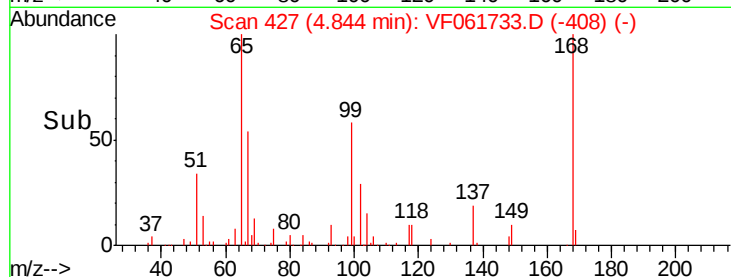
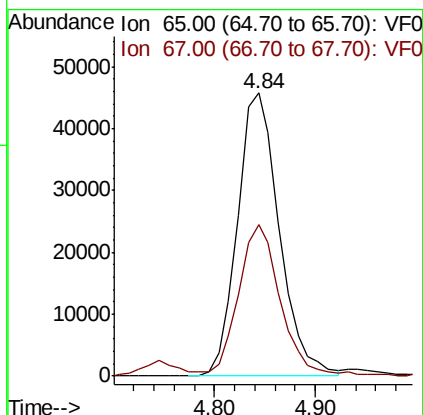
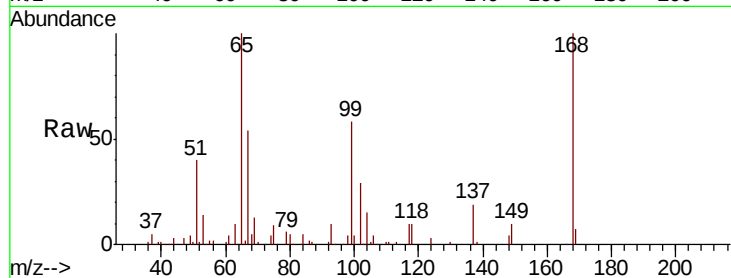




#33
 1,2-Dichloroethane-d4
 Concen: 53.567 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

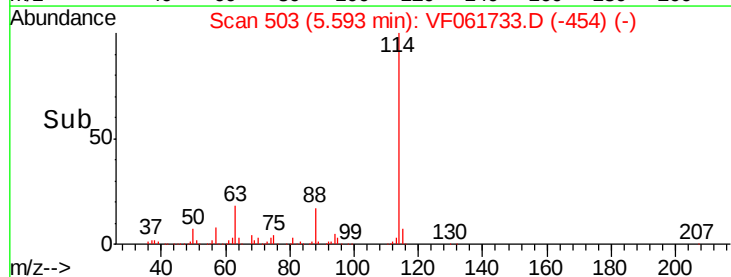
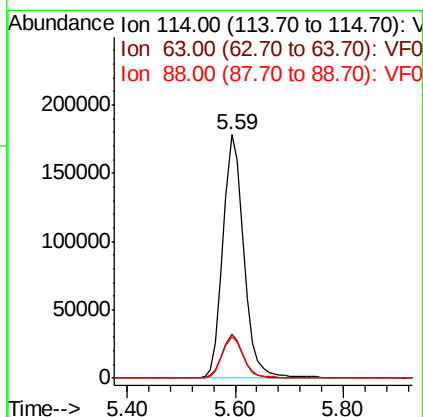
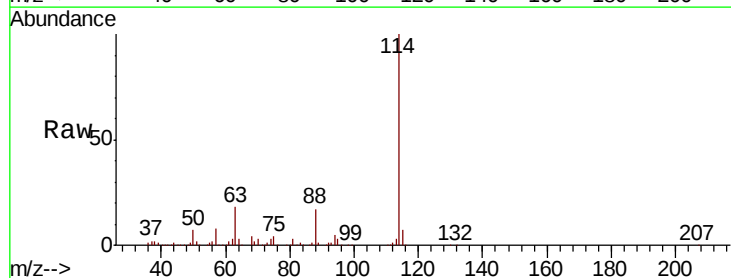
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

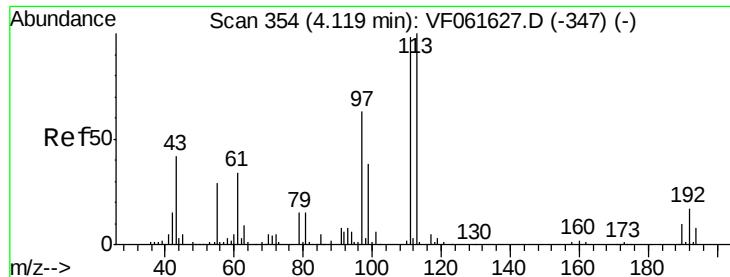
Tgt Ion: 65 Resp: 131348
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

Tgt Ion: 114 Resp: 478422
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 36.6
 88 17.1 0.0 34.4

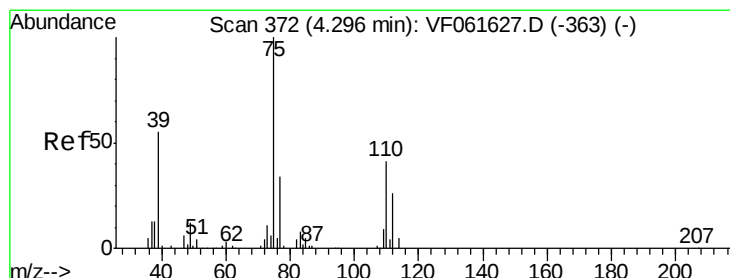
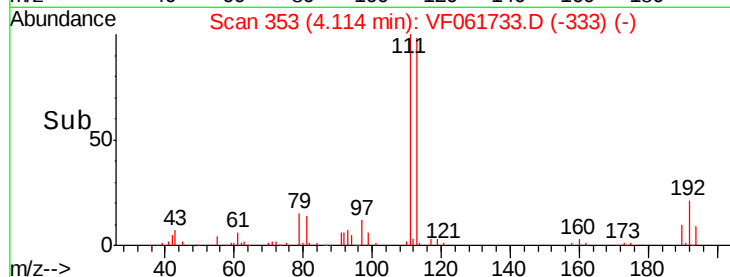
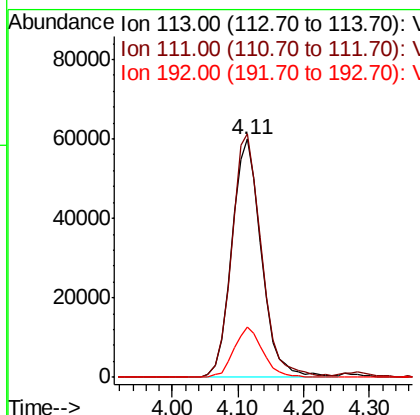
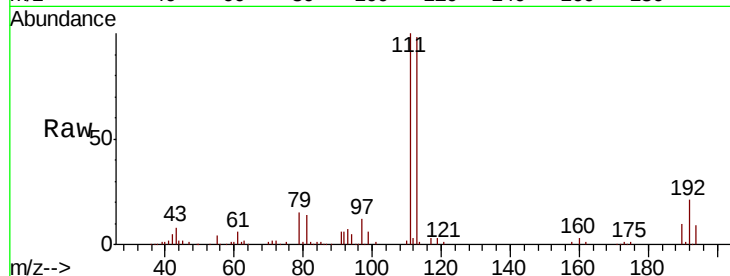




#35
Dibromofluoromethane
Concen: 53.374 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

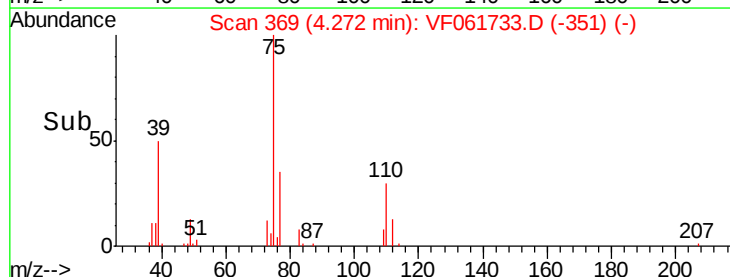
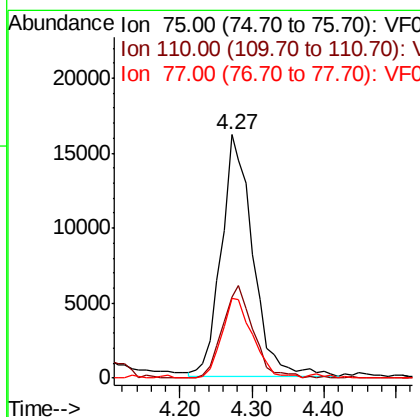
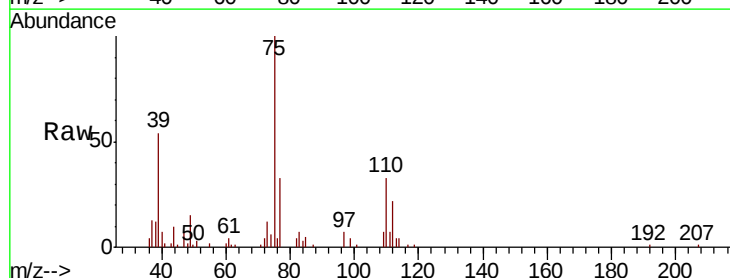
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

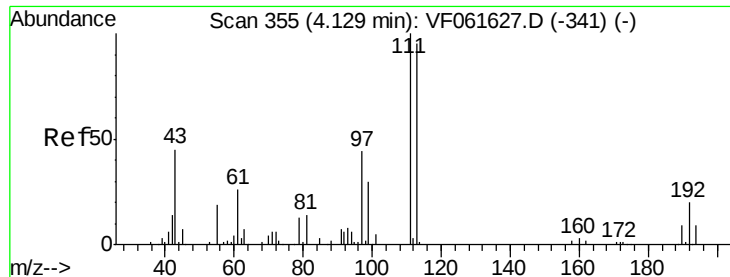
Tgt Ion: 113 Resp: 189627
Ion Ratio Lower Upper
113 100
111 102.3 78.8 118.2
192 21.2 13.4 20.0#



#36
1,1-Dichloropropene
Concen: 10.310 ug/l
RT: 4.27 min Scan# 369
Delta R.T. -0.02 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion: 75 Resp: 48861
Ion Ratio Lower Upper
75 100
110 33.3 20.5 61.6
77 32.5 27.0 40.4





#37

Ethyl Acetate

Concen: 8.840 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

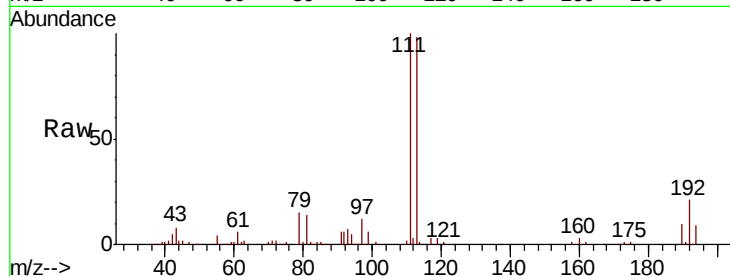
Tgt Ion: 43 Resp: 19460

Ion Ratio Lower Upper

43 100

61 78.4 45.7 68.5#

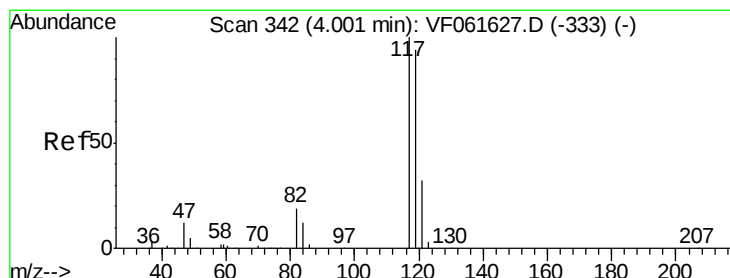
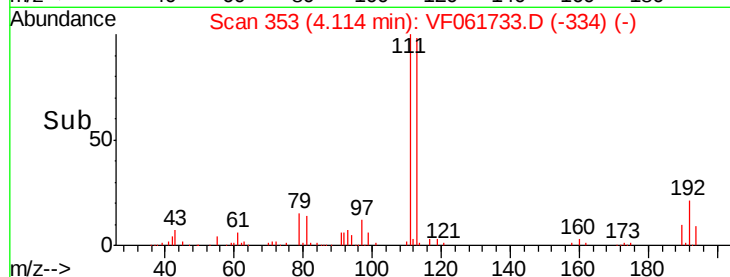
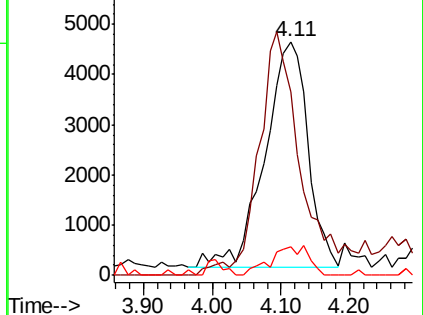
70 12.3 8.5 12.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 11.621 ug/l

RT: 3.99 min Scan# 340

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

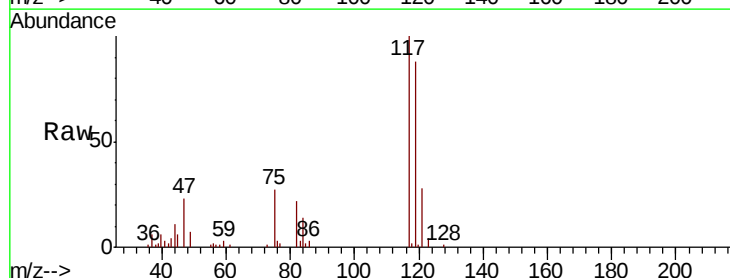
Tgt Ion: 117 Resp: 38032

Ion Ratio Lower Upper

117 100

119 88.4 75.6 113.4

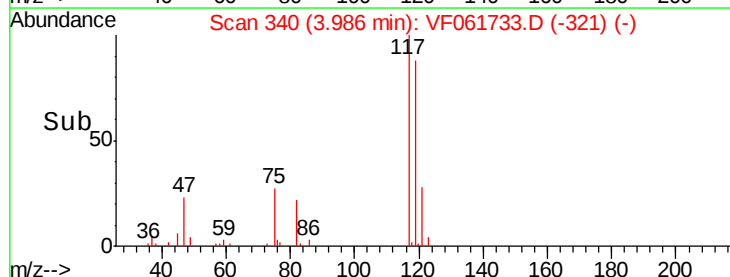
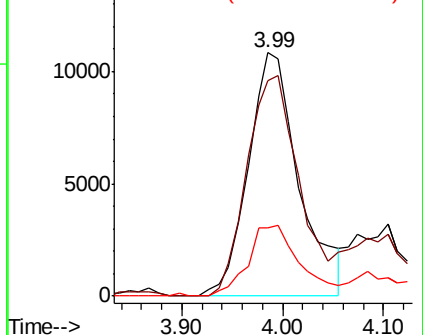
121 28.1 25.2 37.8

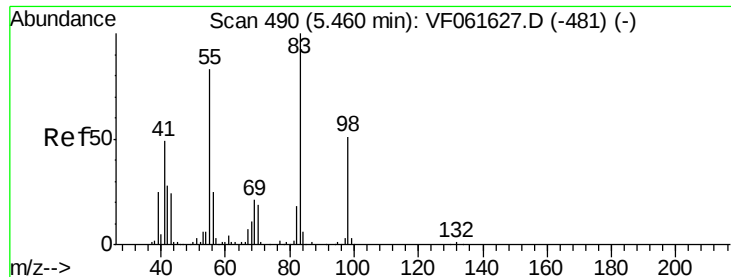


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

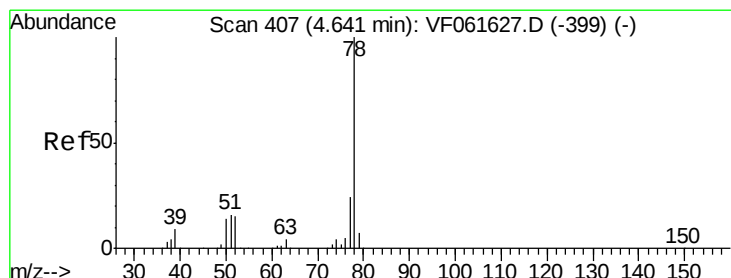
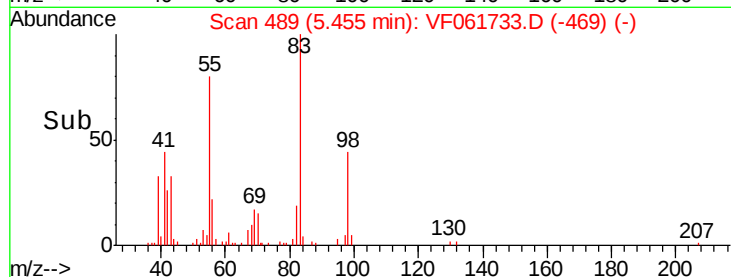
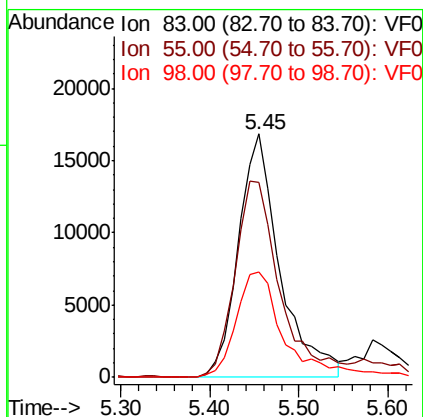
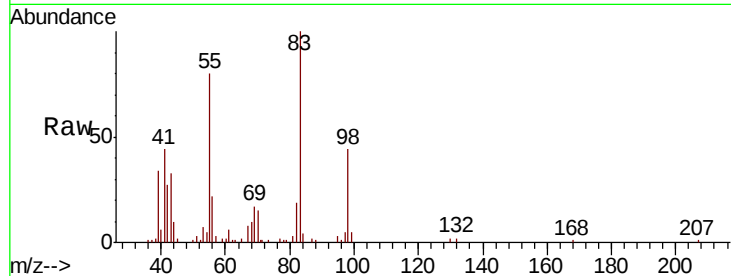




#39
Methylcyclohexane
Concen: 9.747 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

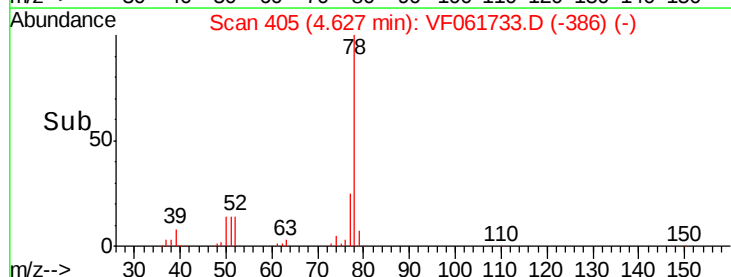
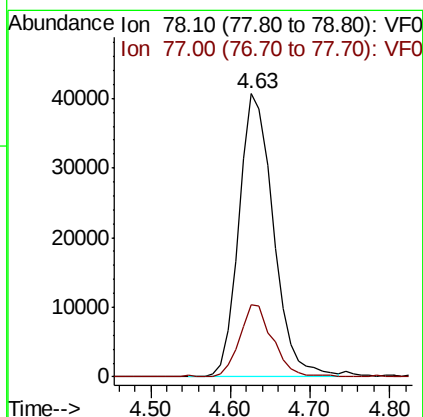
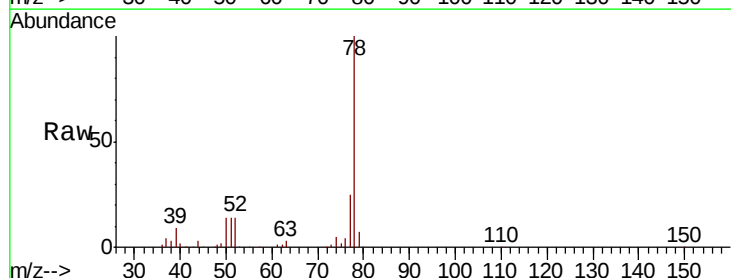
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

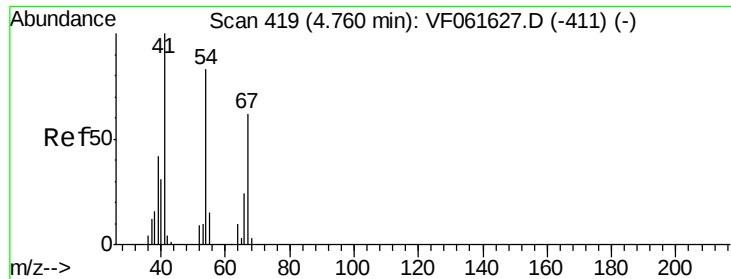
Tgt Ion: 83 Resp: 54632
Ion Ratio Lower Upper
83 100
55 80.1 66.6 99.8
98 43.5 40.4 60.6



#40
Benzene
Concen: 9.863 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion: 78 Resp: 122262
Ion Ratio Lower Upper
78 100
77 25.4 19.0 28.6

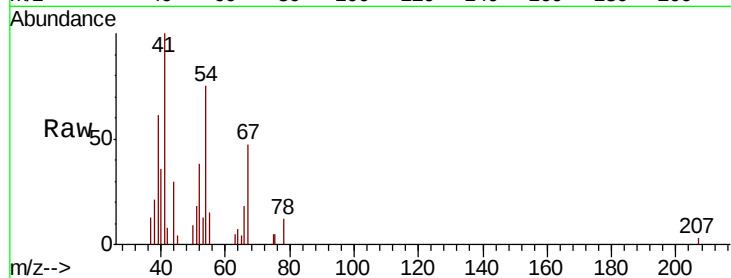




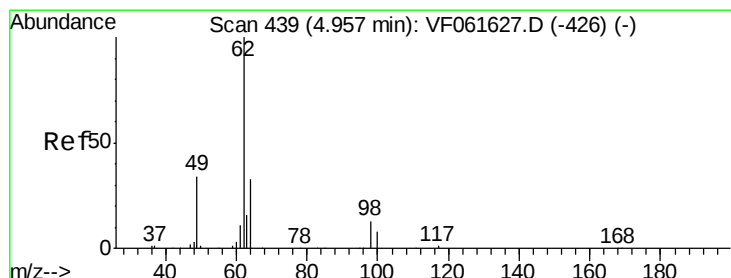
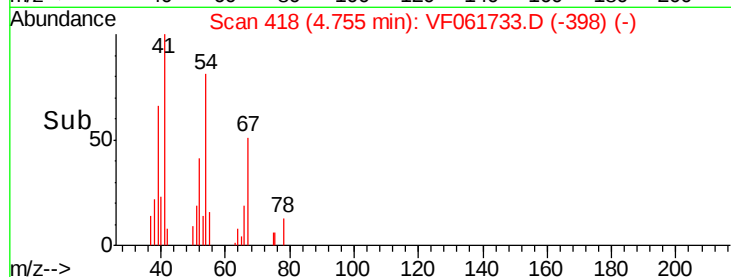
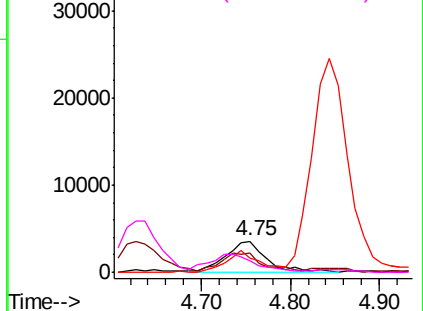
#41
Methacrylonitrile
Concen: 10.238 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

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

Tgt Ion: 41 Resp: 11526
Ion Ratio Lower Upper
41 100
39 61.1 45.3 67.9
67 47.0 49.3 73.9#
52 38.5 32.6 49.0

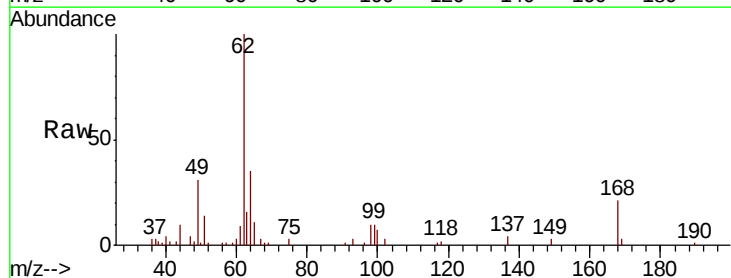


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

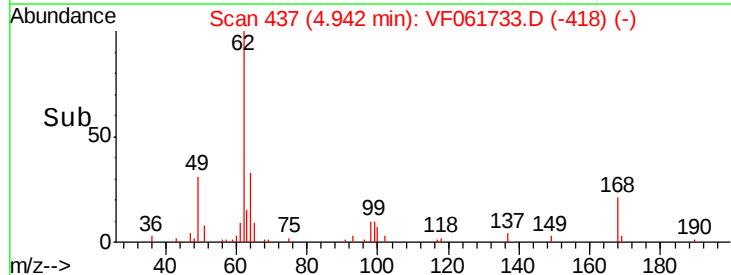
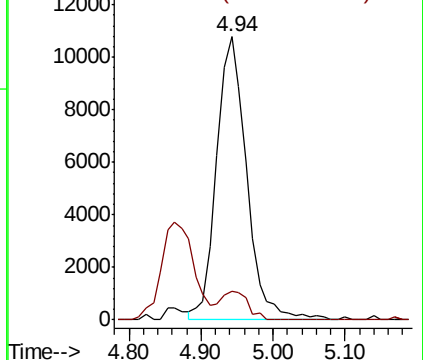


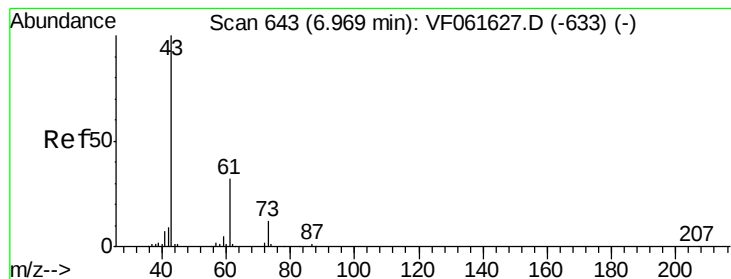
#42
1,2-Dichloroethane
Concen: 10.488 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion: 62 Resp: 31101
Ion Ratio Lower Upper
62 100
98 10.2 0.0 26.0



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





#43

Isopropyl Acetate

Concen: 9.054 ug/l

RT: 6.96 min Scan# 642

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

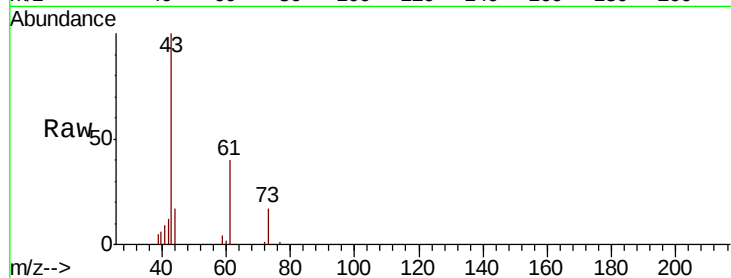
Tgt Ion: 43 Resp: 23592

Ion Ratio Lower Upper

43 100

61 40.3 25.8 38.6#

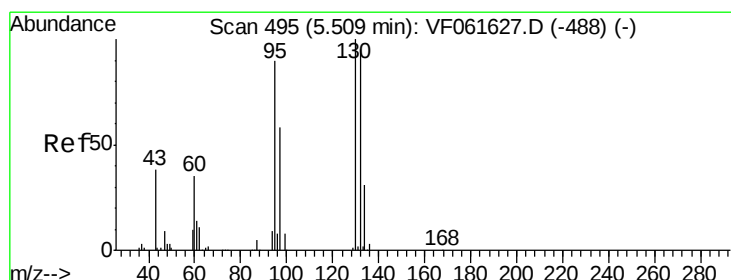
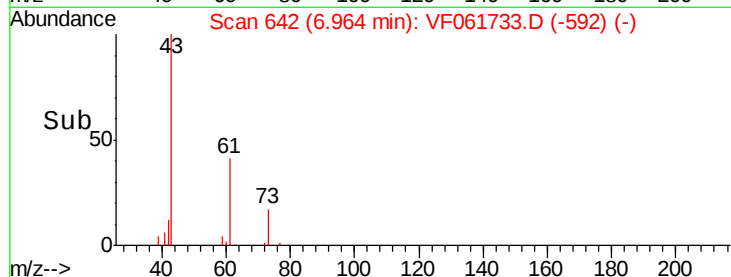
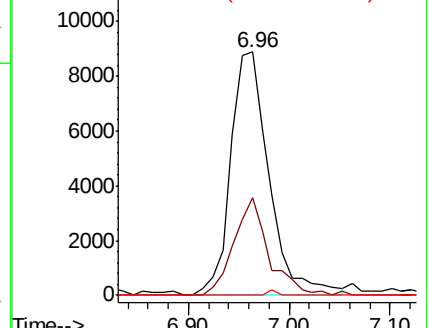
87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 10.837 ug/l

RT: 5.49 min Scan# 493

Delta R.T. -0.01 min

Lab File: VF061733.D

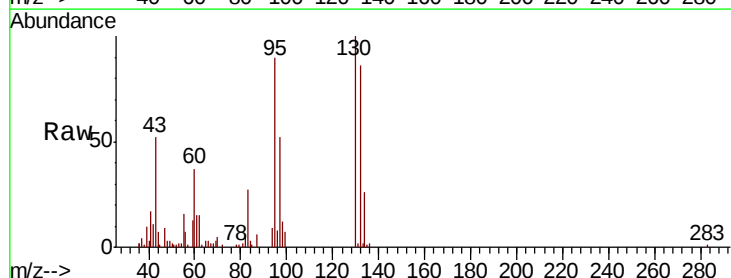
Acq: 25 Feb 2019 16:35

Tgt Ion: 130 Resp: 43442

Ion Ratio Lower Upper

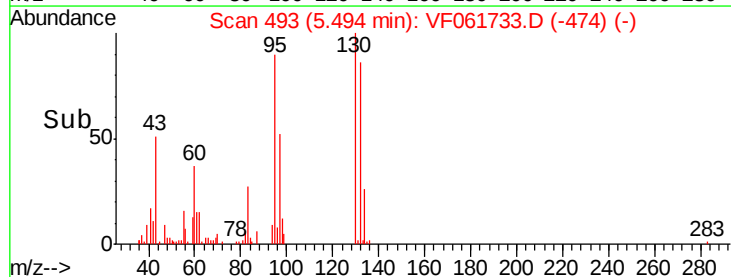
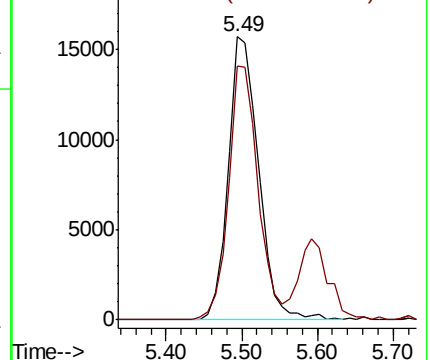
130 100

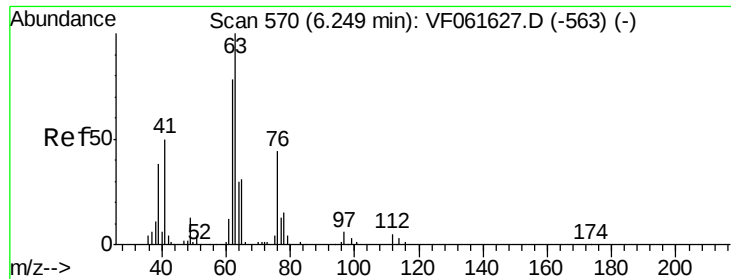
95 89.9 0.0 179.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 10.273 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

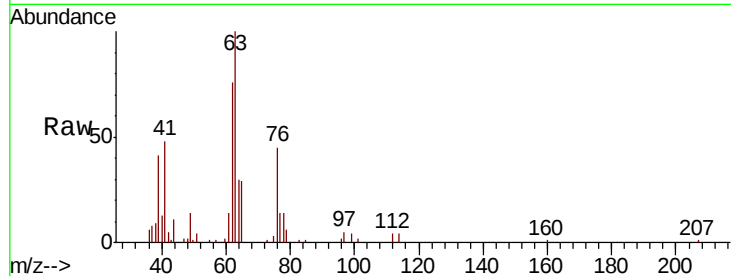
LOQ-SOIL-02-QT1-2019

Tgt Ion: 63 Resp: 30783

Ion Ratio Lower Upper

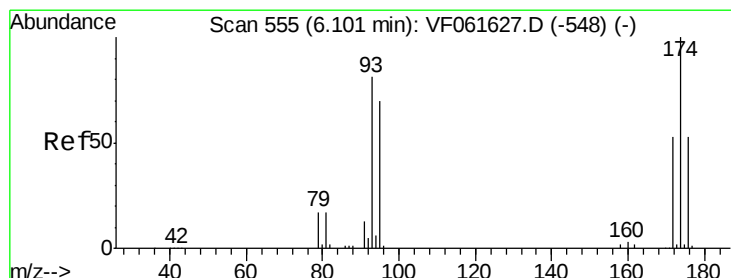
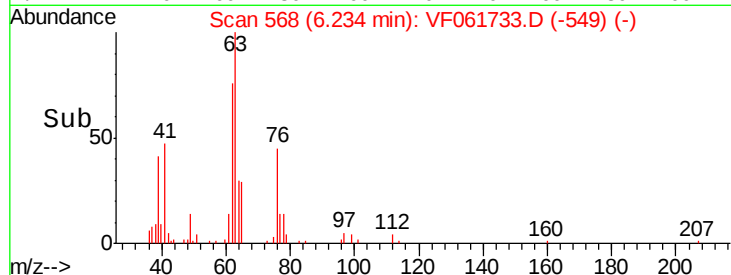
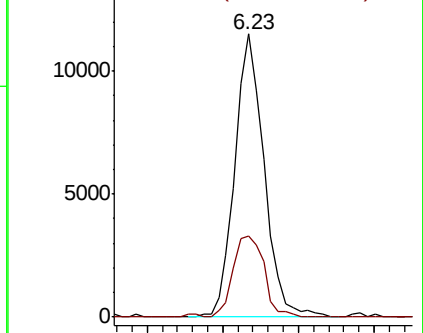
63 100

65 28.8 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 9.702 ug/l

RT: 6.08 min Scan# 552

Delta R.T. -0.02 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

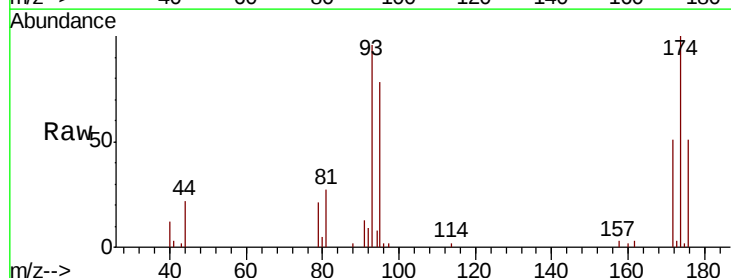
Tgt Ion: 93 Resp: 17900

Ion Ratio Lower Upper

93 100

95 81.8 69.0 103.6

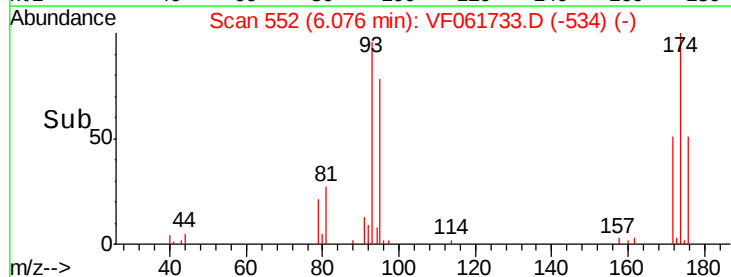
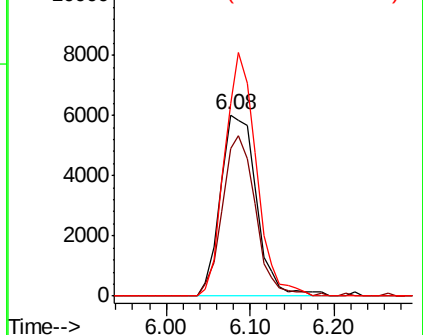
174 106.6 99.3 148.9

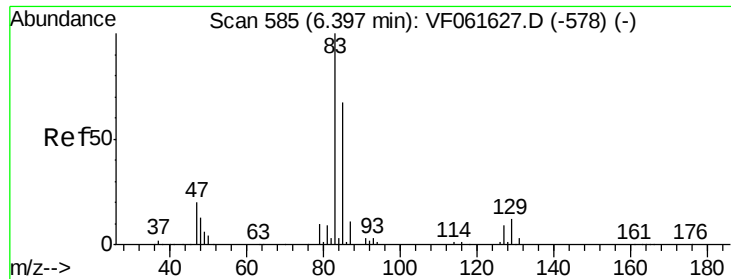


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 10.426 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

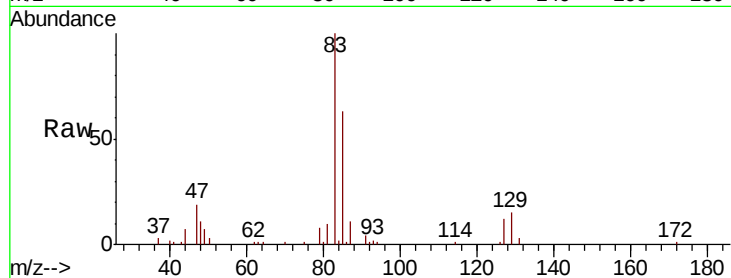
Tgt Ion: 83 Resp: 42124

Ion Ratio Lower Upper

83 100

85 63.4 53.4 80.2

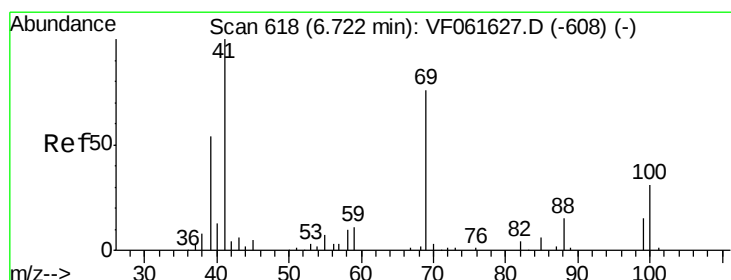
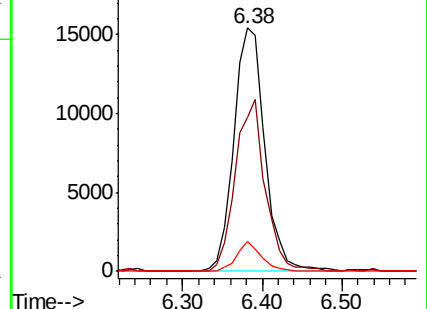
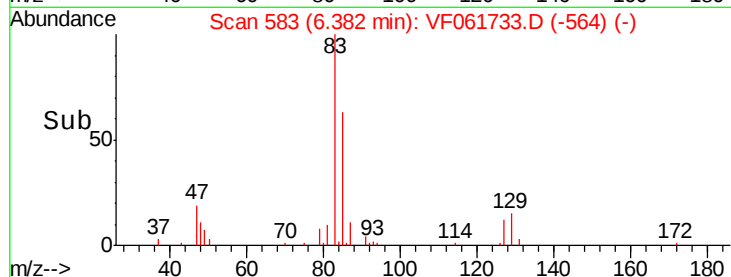
127 12.4 7.5 11.3#



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: 10.000 ug/l

RT: 6.72 min Scan# 617

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

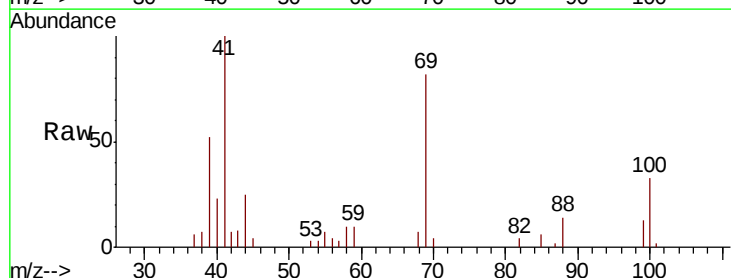
Tgt Ion: 41 Resp: 15680

Ion Ratio Lower Upper

41 100

69 82.5 60.4 90.6

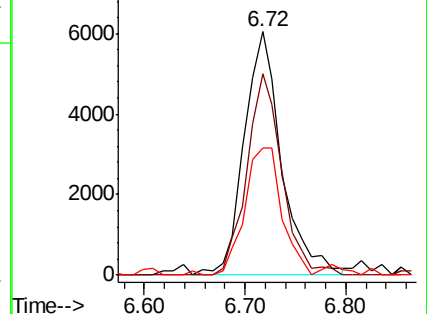
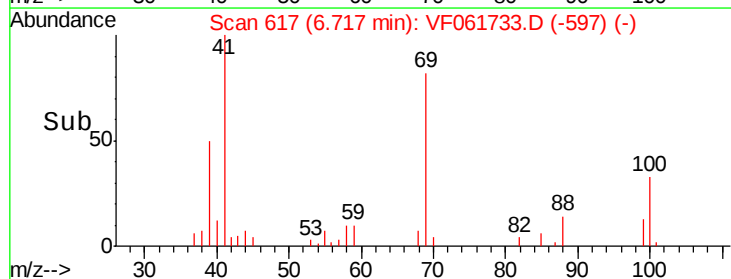
39 52.0 43.7 65.5

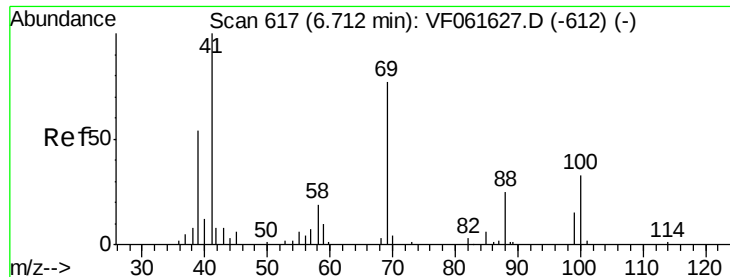


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 195.243 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

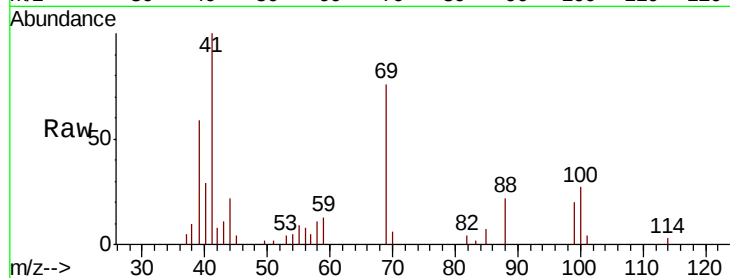
Tgt Ion: 88 Resp: 2878

Ion Ratio Lower Upper

88 100

43 48.6 32.3 48.5#

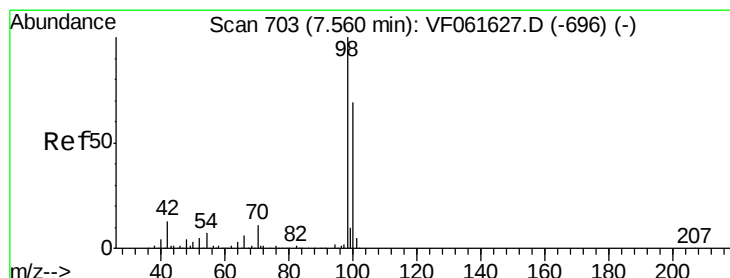
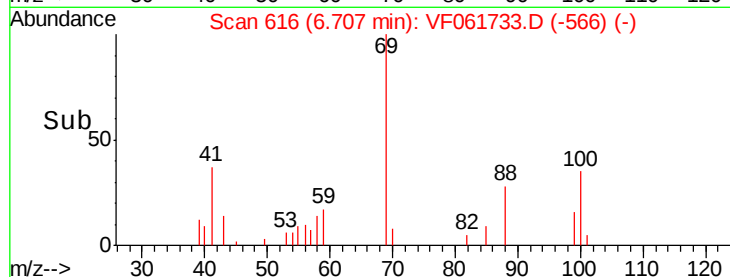
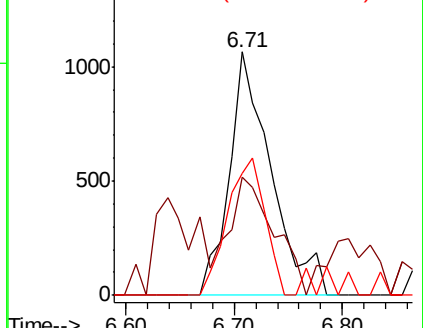
58 50.0 59.4 89.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 51.201 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061733.D

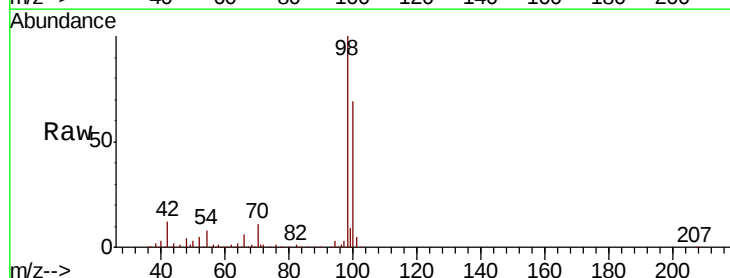
Acq: 25 Feb 2019 16:35

Tgt Ion: 98 Resp: 522928

Ion Ratio Lower Upper

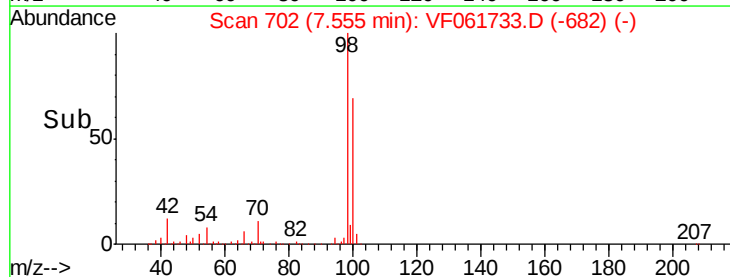
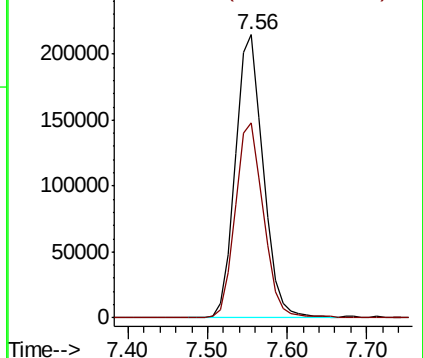
98 100

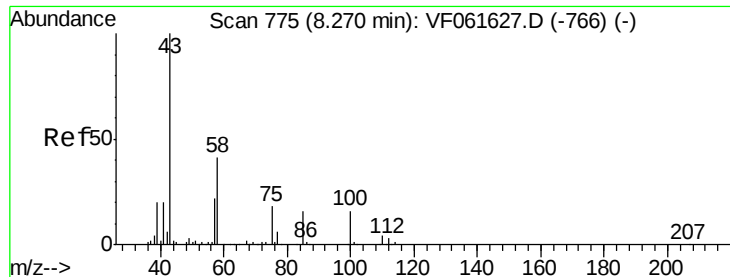
100 68.8 55.4 83.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 49.009 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

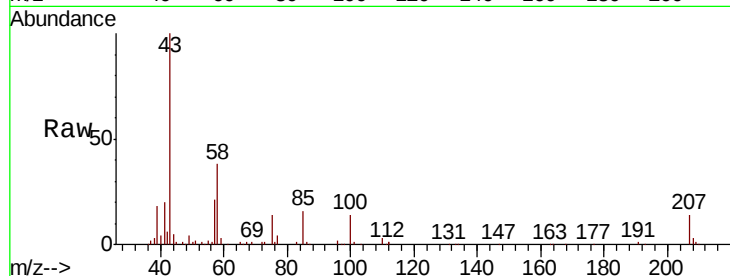
LOQ-SOIL-02-QT1-2019

Tgt Ion: 43 Resp: 91247

Ion Ratio Lower Upper

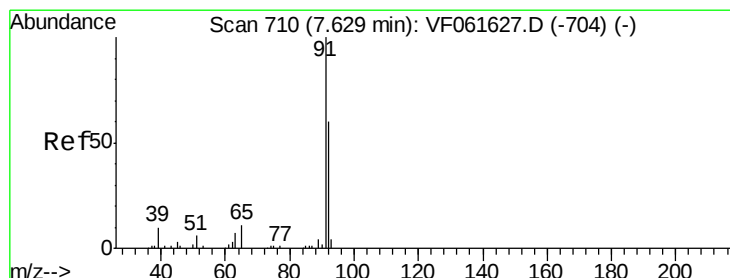
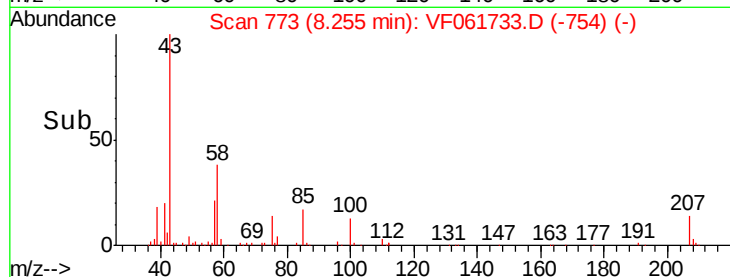
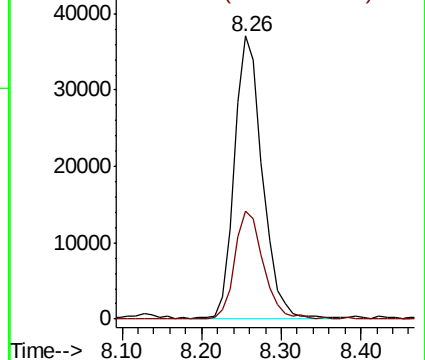
43 100

58 38.2 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 10.571 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.00 min

Lab File: VF061733.D

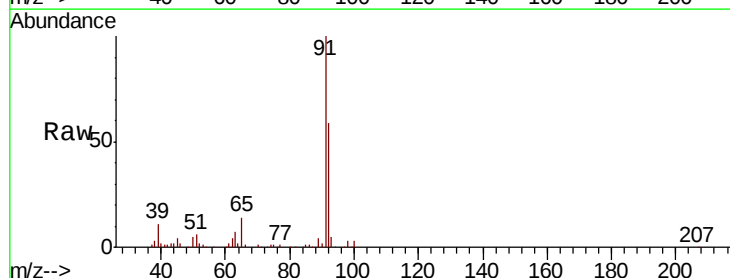
Acq: 25 Feb 2019 16:35

Tgt Ion: 92 Resp: 79479

Ion Ratio Lower Upper

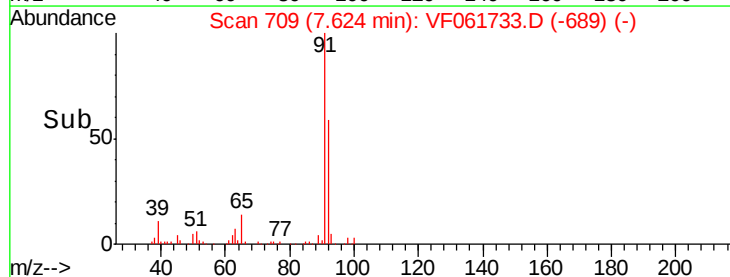
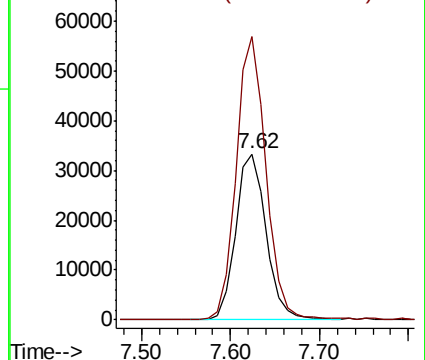
92 100

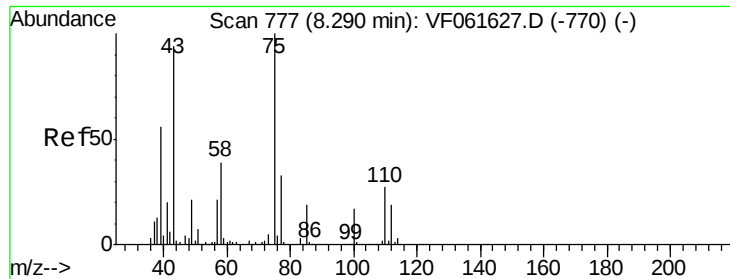
91 170.9 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 11.606 ug/l

RT: 8.28 min Scan# 775

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

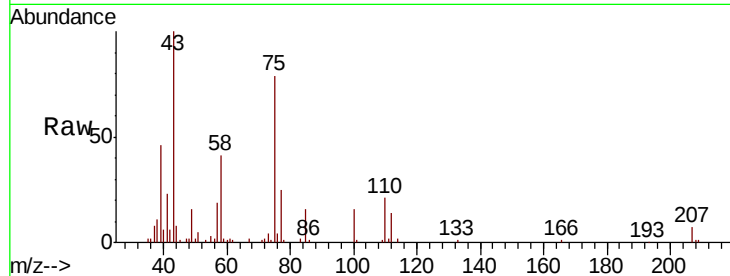
LOQ-SOIL-02-QT1-2019

Tgt Ion: 75 Resp: 39025

Ion Ratio Lower Upper

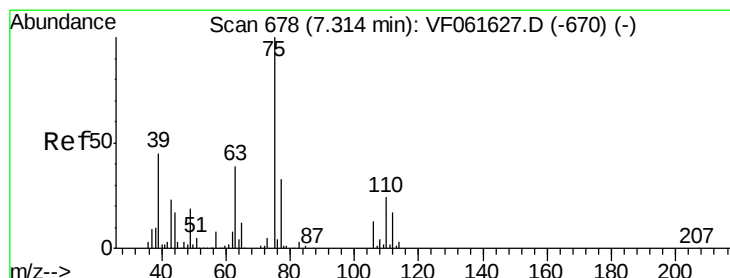
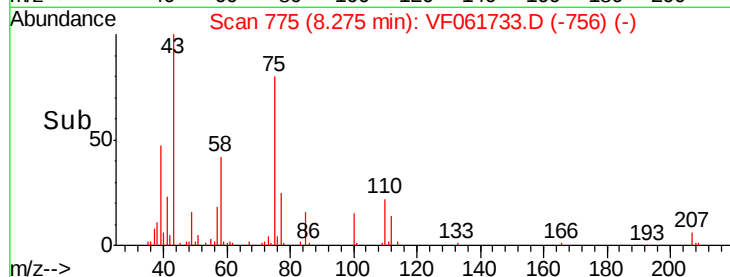
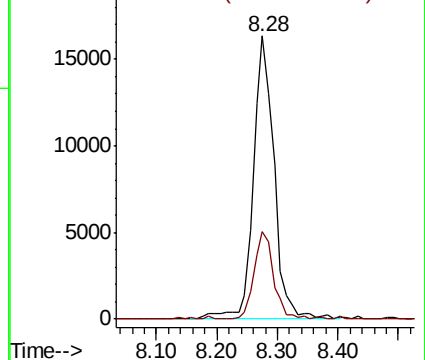
75 100

77 30.9 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 10.609 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

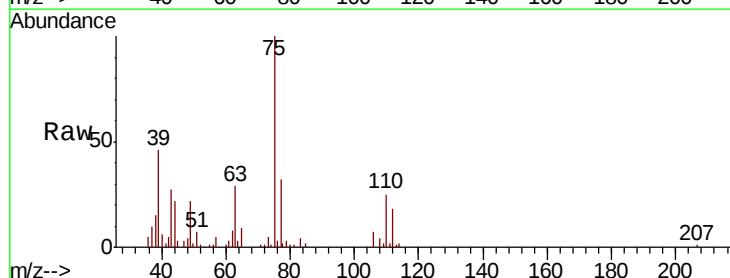
Tgt Ion: 75 Resp: 47514

Ion Ratio Lower Upper

75 100

77 31.6 26.4 39.6

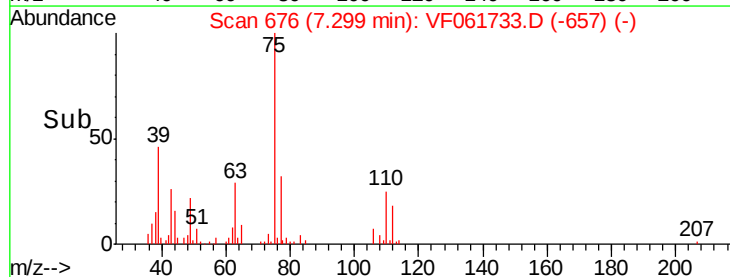
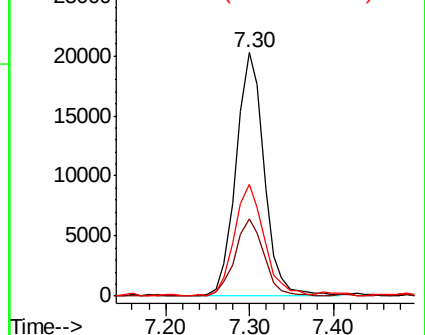
39 45.9 36.0 54.0

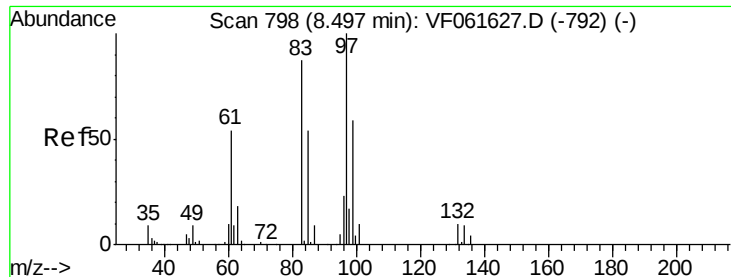


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 10.238 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tgt Ion: 97 Resp: 22615

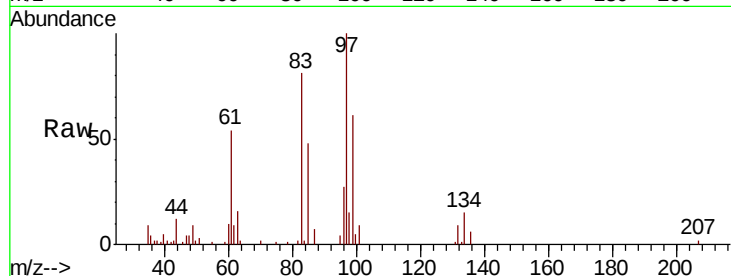
Ion Ratio Lower Upper

97 100

83 80.7 69.2 103.8

85 47.6 43.0 64.4

99 60.9 47.2 70.8

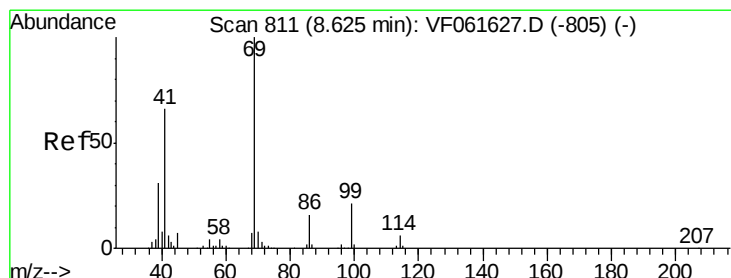
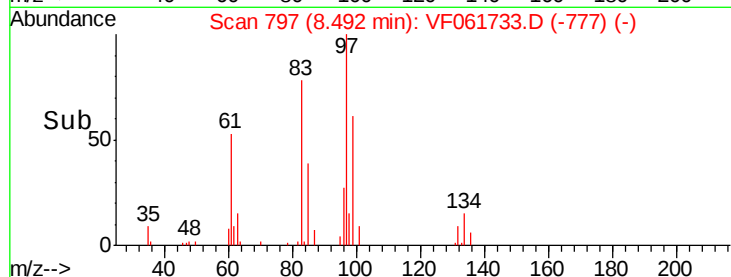
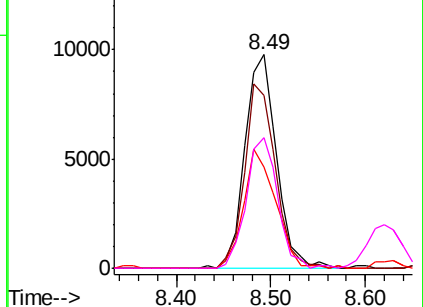


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 9.018 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

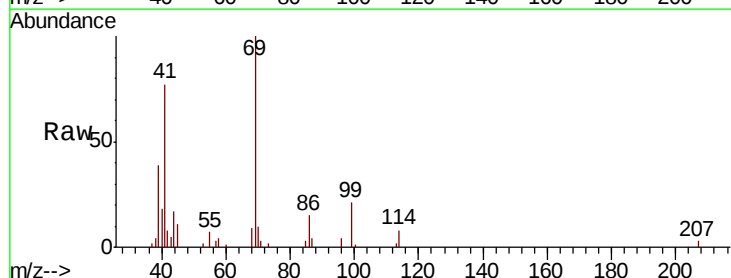
Tgt Ion: 69 Resp: 22178

Ion Ratio Lower Upper

69 100

41 77.5 52.9 79.3

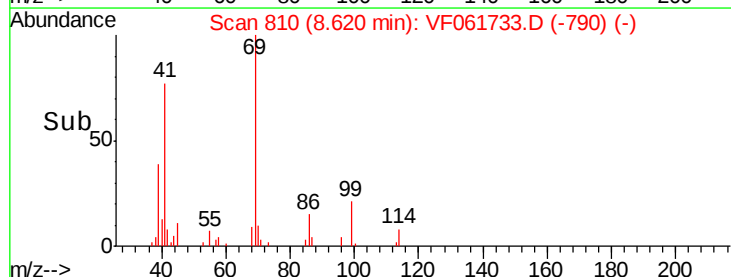
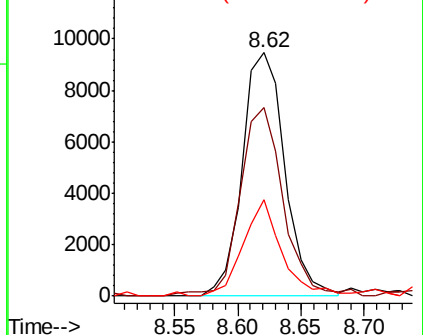
39 39.5 24.5 36.7#

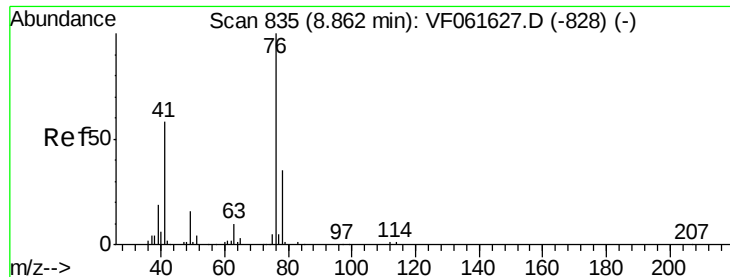


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 9.923 ug/l

RT: 8.85 min Scan# 833

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

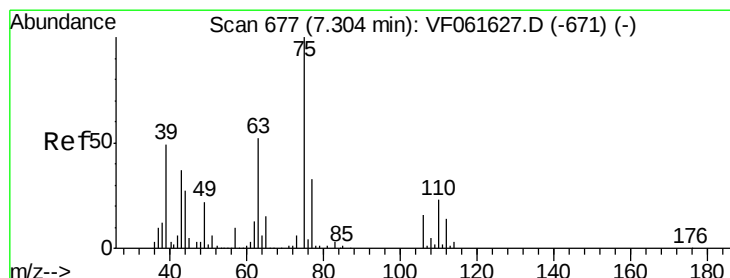
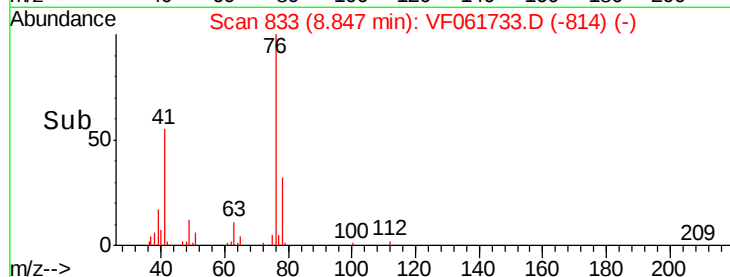
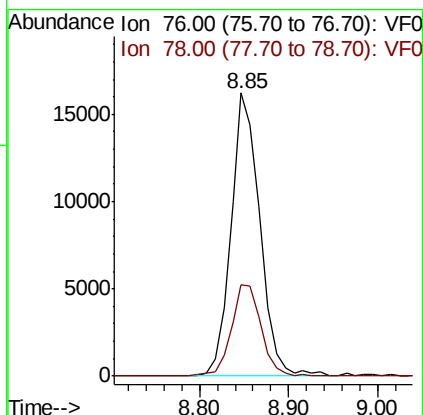
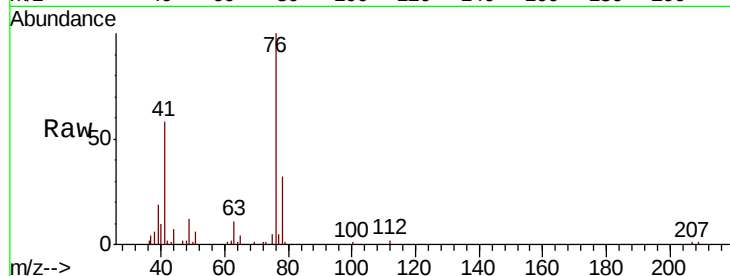
LOQ-SOIL-02-QT1-2019

Tgt Ion: 76 Resp: 36587

Ion Ratio Lower Upper

76 100

78 32.3 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 36.342 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.01 min

Lab File: VF061733.D

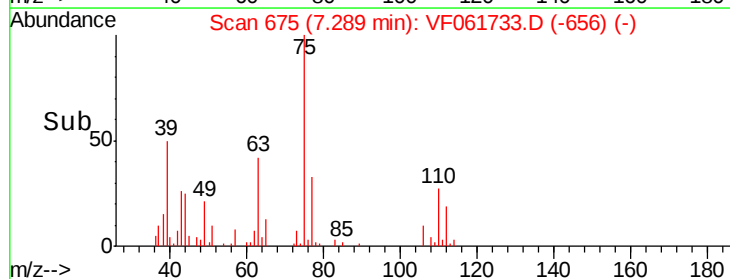
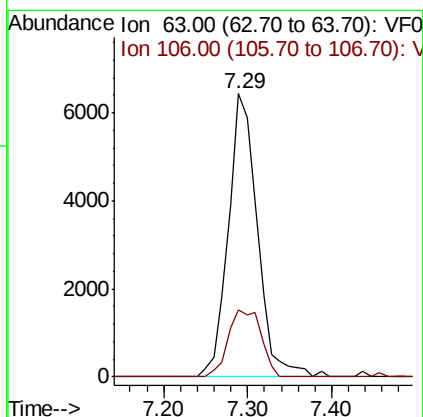
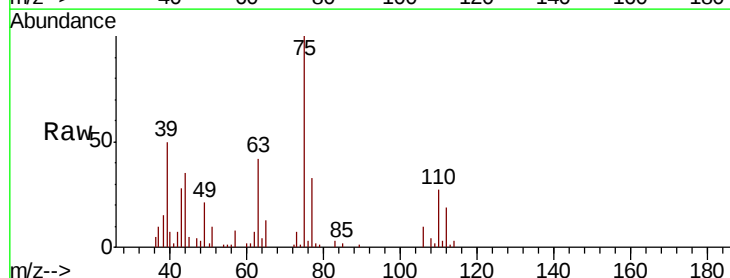
Acq: 25 Feb 2019 16:35

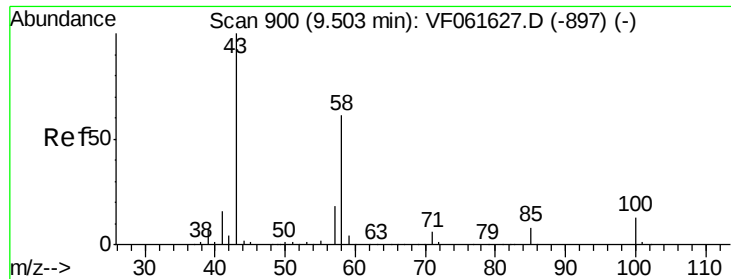
Tgt Ion: 63 Resp: 15421

Ion Ratio Lower Upper

63 100

106 23.8 24.6 36.8#

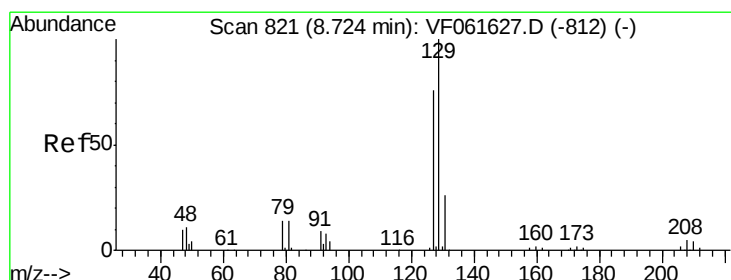
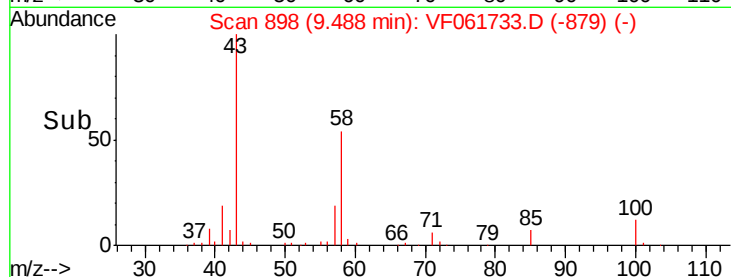
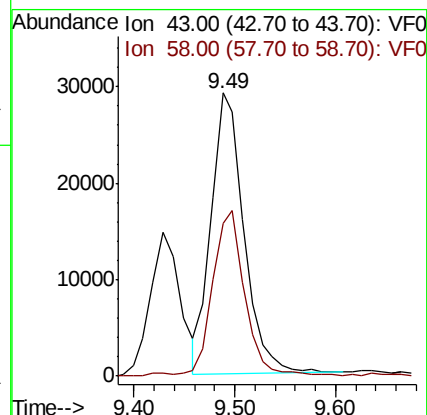
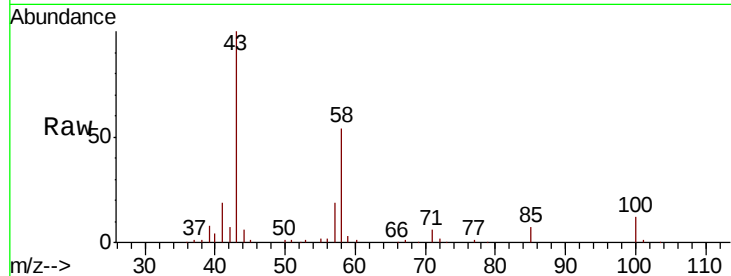




#59
2-Hexanone
Concen: 50.920 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

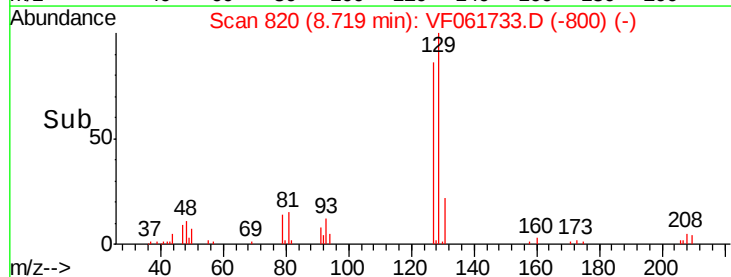
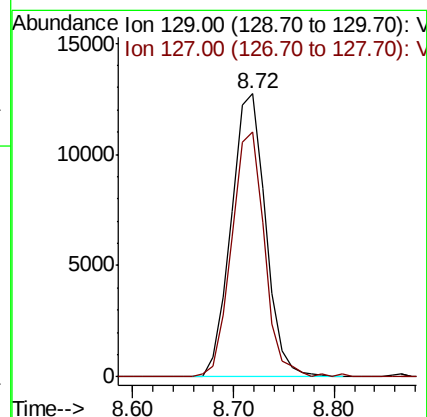
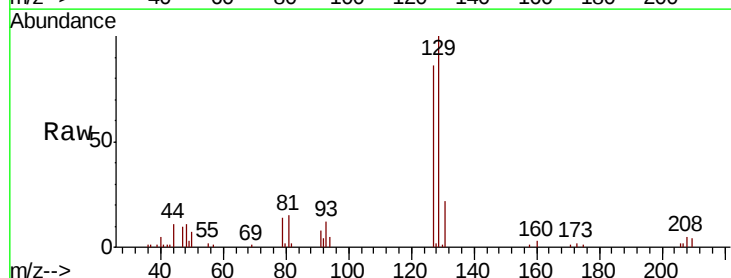
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

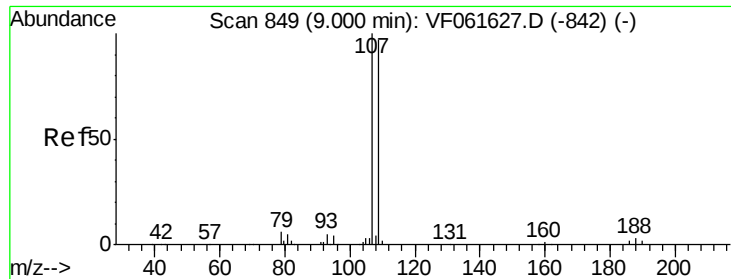
Tgt Ion: 43 Resp: 66455
Ion Ratio Lower Upper
43 100
58 53.8 28.5 85.5



#60
Dibromochloromethane
Concen: 9.837 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion: 129 Resp: 30244
Ion Ratio Lower Upper
129 100
127 86.5 37.8 113.4

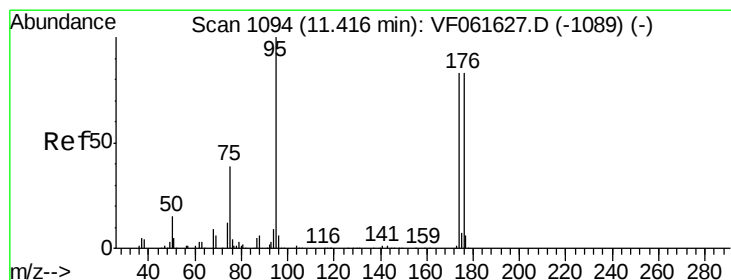
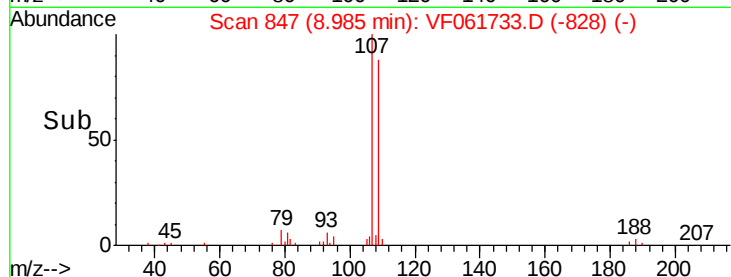
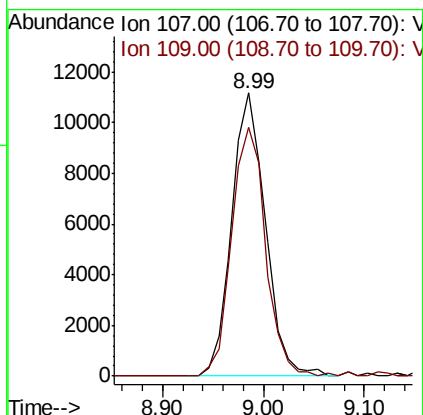
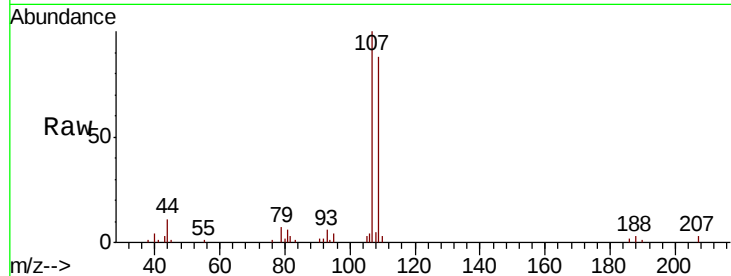




#61
 1,2-Dibromoethane
 Concen: 10.854 ug/l
 RT: 8.99 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

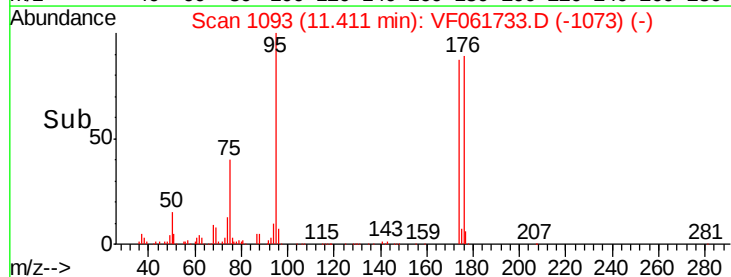
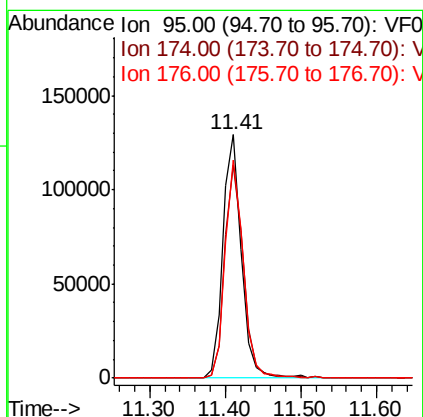
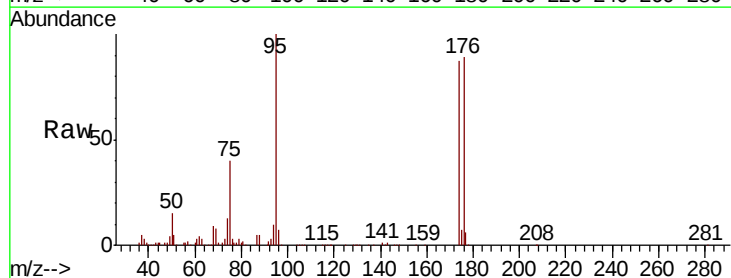
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

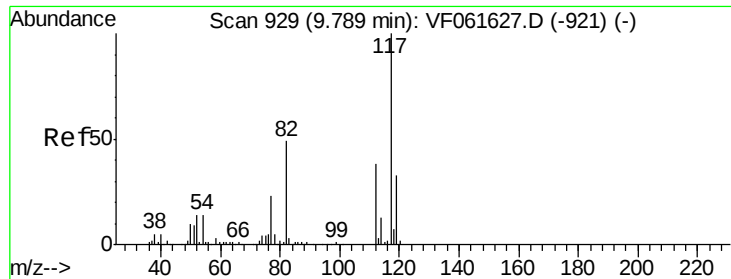
Tgt Ion: 107 Resp: 26004
 Ion Ratio Lower Upper
 107 100
 109 87.9 77.4 116.0



#62
 4-Bromofluorobenzene
 Concen: 53.438 ug/l
 RT: 11.41 min Scan# 1093
 Delta R.T. -0.00 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

Tgt Ion: 95 Resp: 220833
 Ion Ratio Lower Upper
 95 100
 174 87.3 0.0 165.8
 176 89.4 0.0 167.0

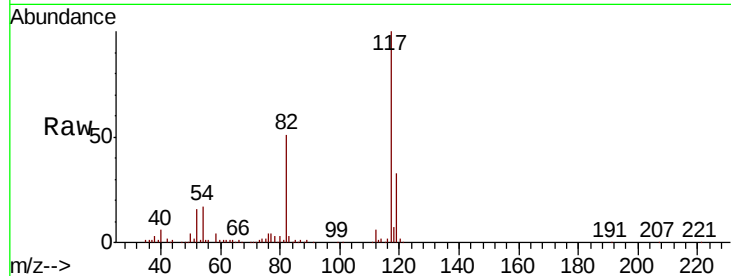




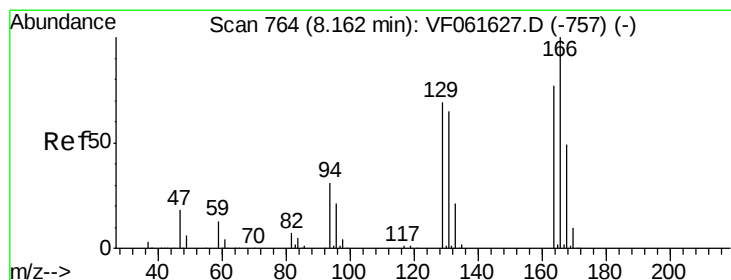
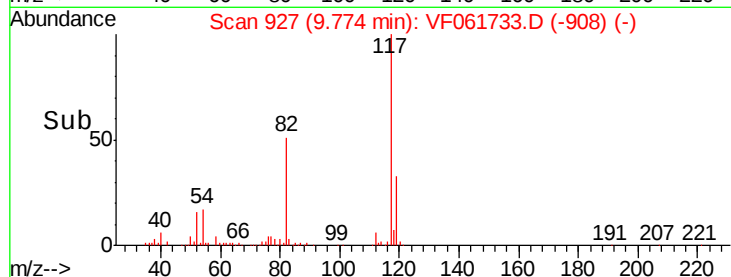
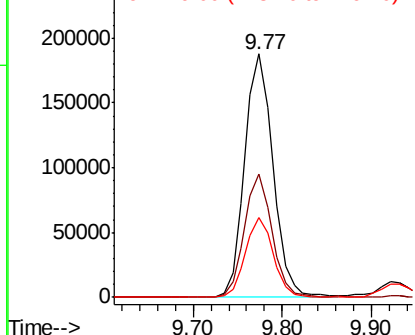
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

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

Tgt Ion:117 Resp: 415022
Ion Ratio Lower Upper
117 100
82 50.6 39.3 58.9
119 32.6 26.6 40.0



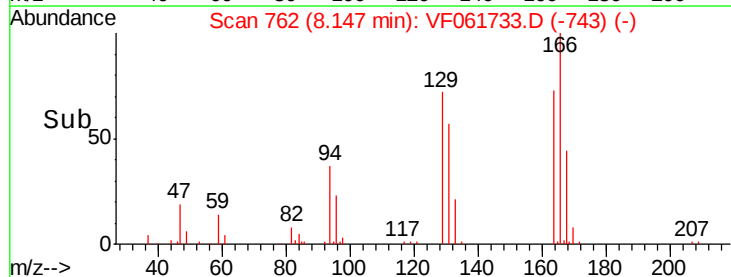
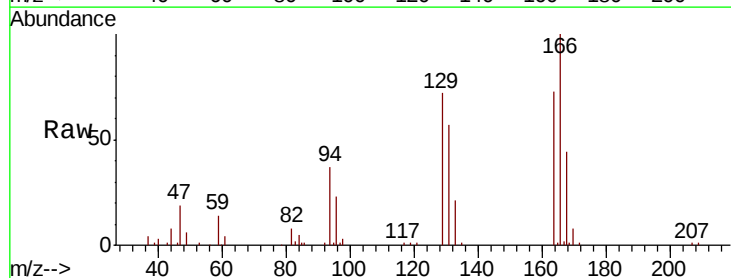
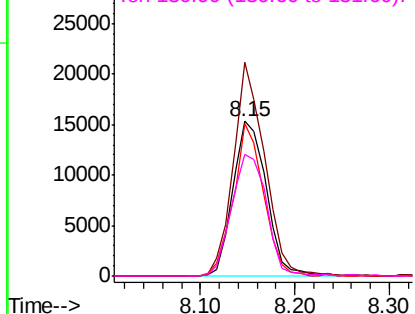
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

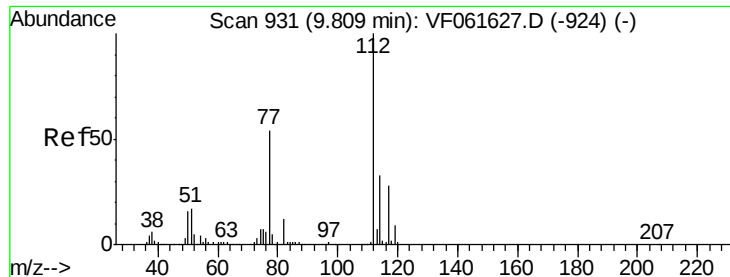


#64
Tetrachloroethene
Concen: 11.033 ug/l
RT: 8.15 min Scan# 762
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion:164 Resp: 37428
Ion Ratio Lower Upper
164 100
166 137.9 103.9 155.9
129 98.7 71.3 106.9
131 78.5 67.1 100.7

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

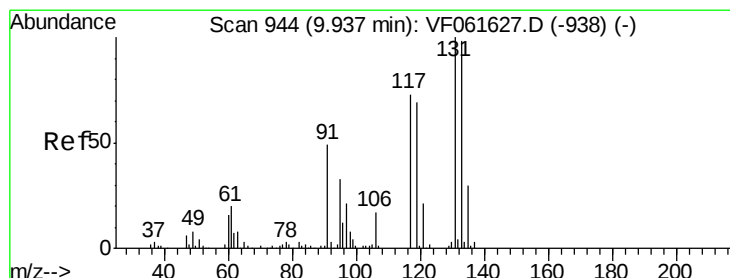
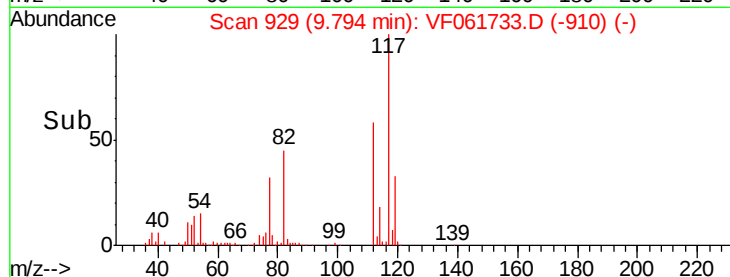
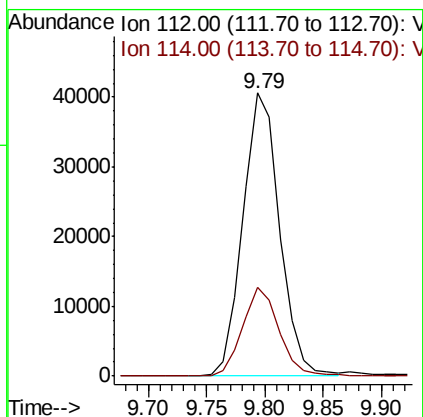
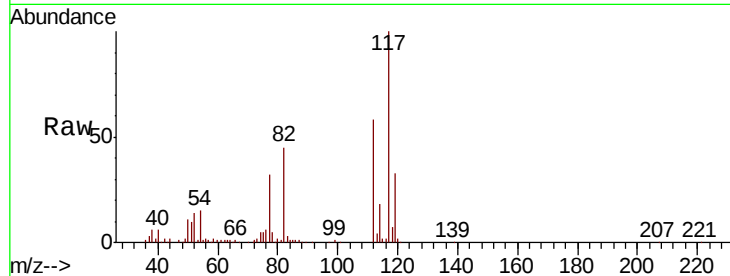




#65
Chlorobenzene
Concen: 10.530 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

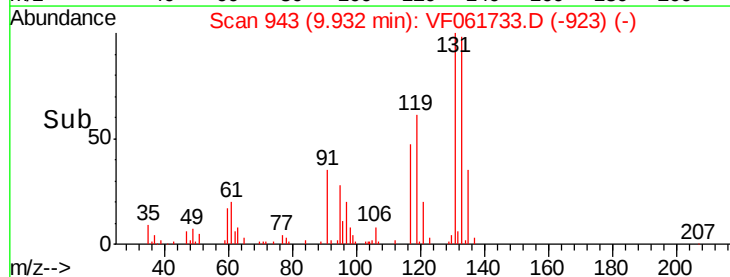
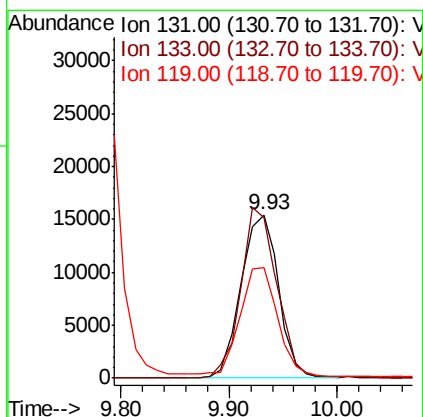
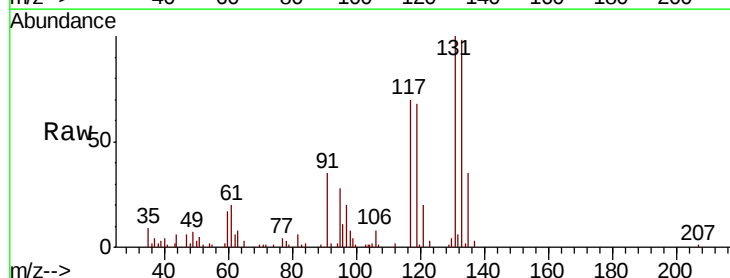
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

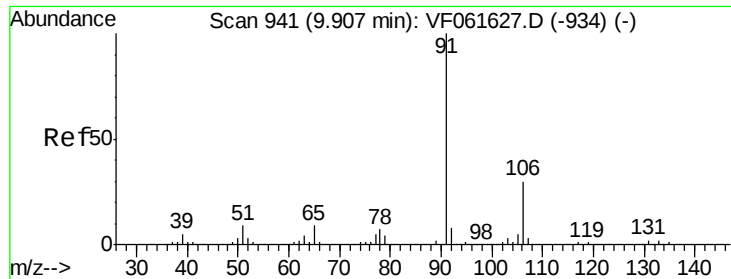
Tgt Ion:112 Resp: 88683
Ion Ratio Lower Upper
112 100
114 31.4 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 11.280 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion:131 Resp: 37224
Ion Ratio Lower Upper
131 100
133 98.5 48.9 146.6
119 67.7 34.8 104.3





#67

Ethyl Benzene

Concen: 11.529 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

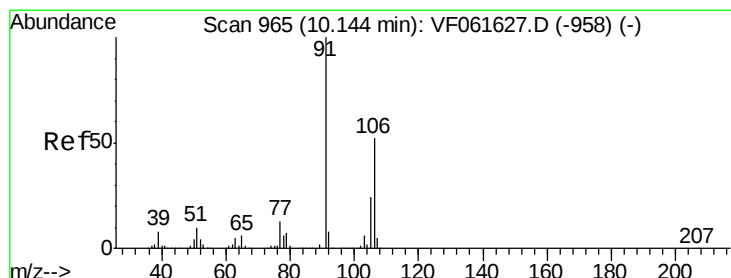
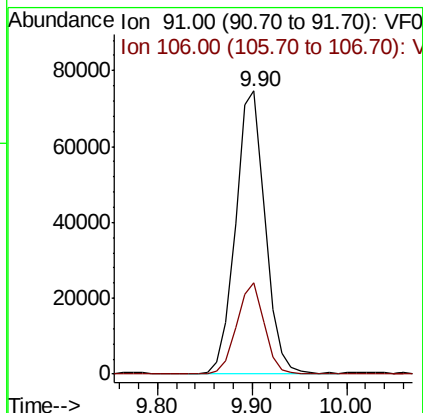
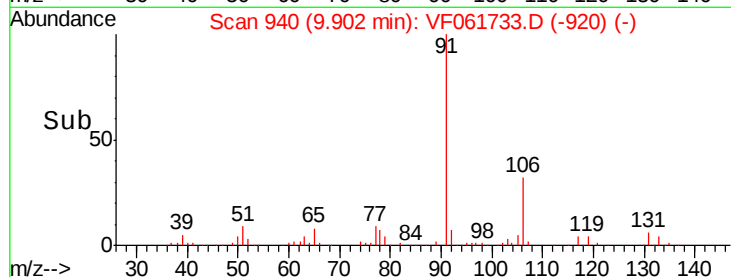
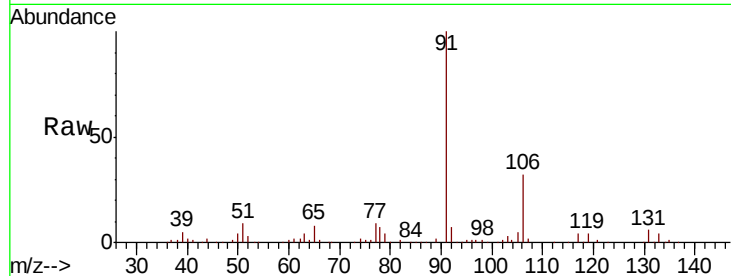
LOQ-SOIL-02-QT1-2019

Tgt Ion: 91 Resp: 161468

Ion Ratio Lower Upper

91 100

106 32.3 24.1 36.1



#68

m/p-Xylenes

Concen: 21.912 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061733.D

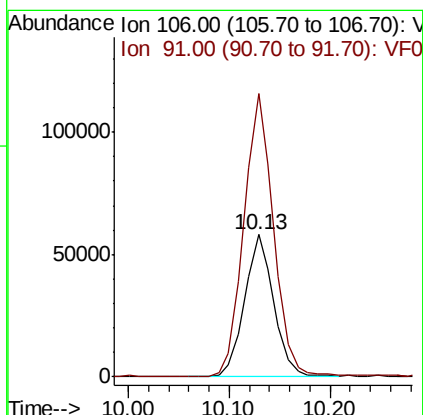
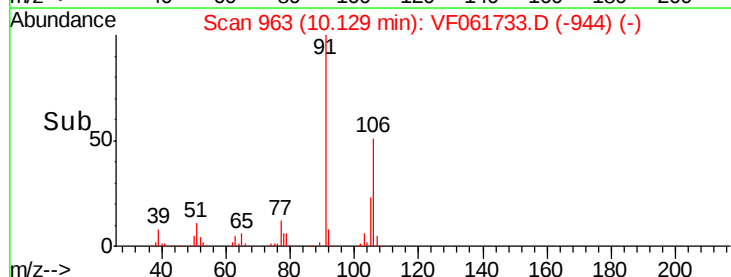
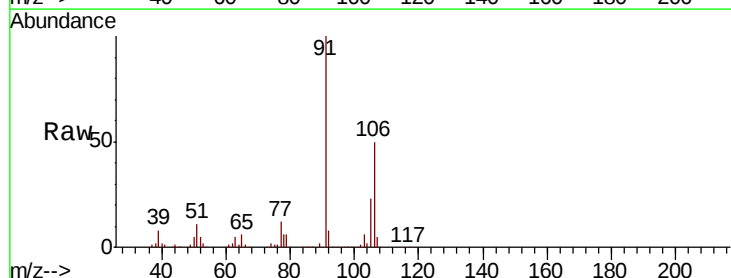
Acq: 25 Feb 2019 16:35

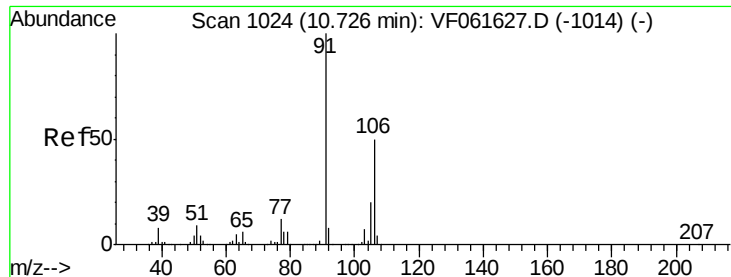
Tgt Ion: 106 Resp: 117448

Ion Ratio Lower Upper

106 100

91 199.2 153.0 229.6

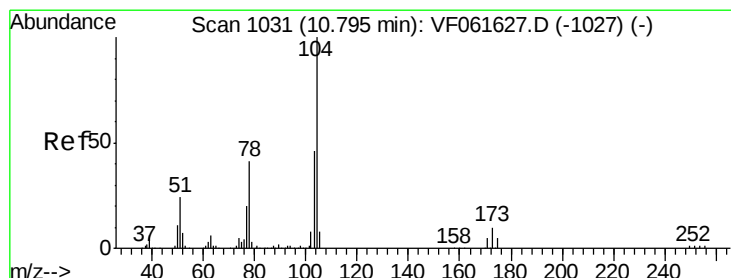
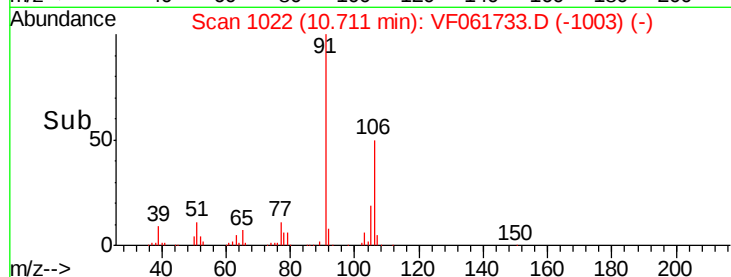
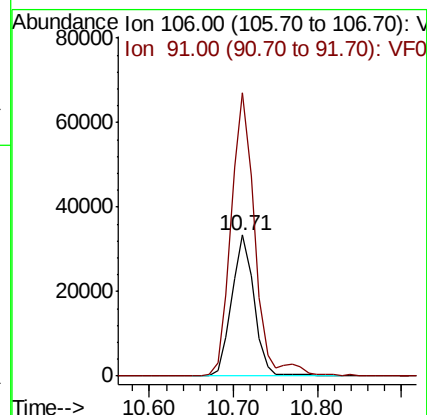
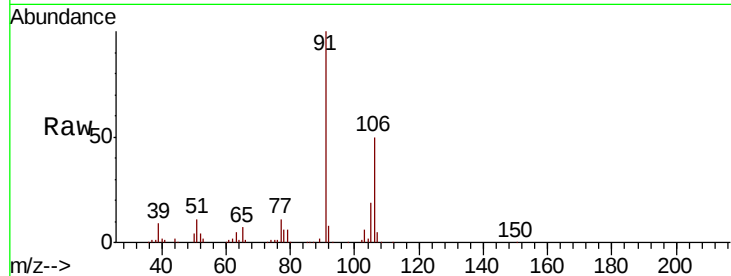




#69
o-Xylene
Concen: 10.840 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

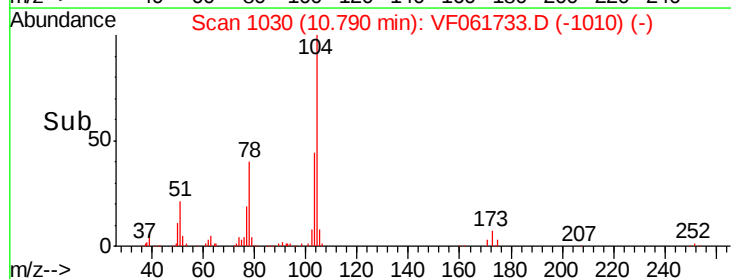
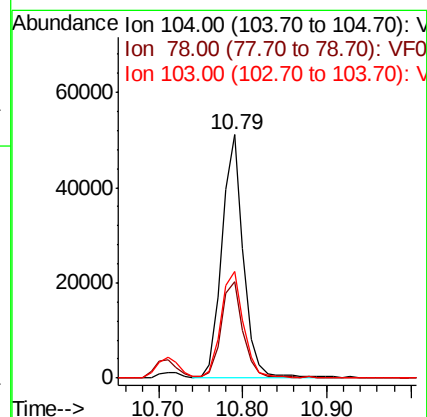
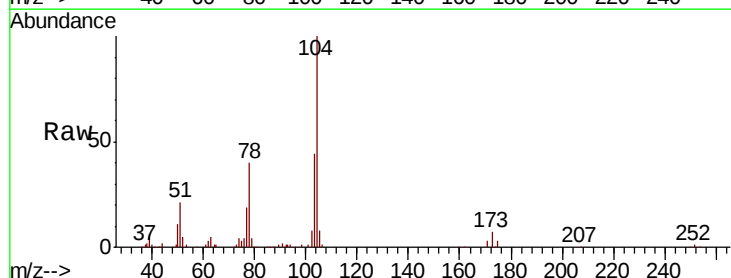
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT1-2019

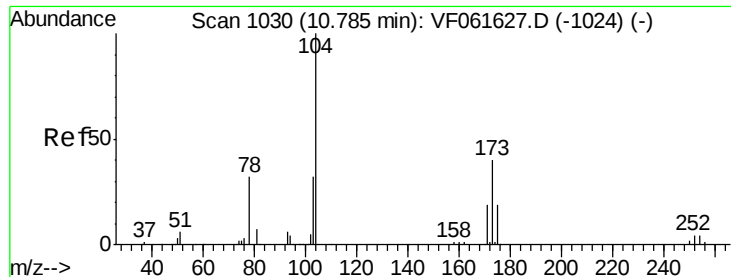
Tgt Ion:106 Resp: 61998
Ion Ratio Lower Upper
106 100
91 201.0 100.1 300.1



#70
Styrene
Concen: 11.224 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion:104 Resp: 90811
Ion Ratio Lower Upper
104 100
78 39.6 33.2 49.8
103 43.7 37.2 55.8





#71

Bromoform

Concen: 10.460 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

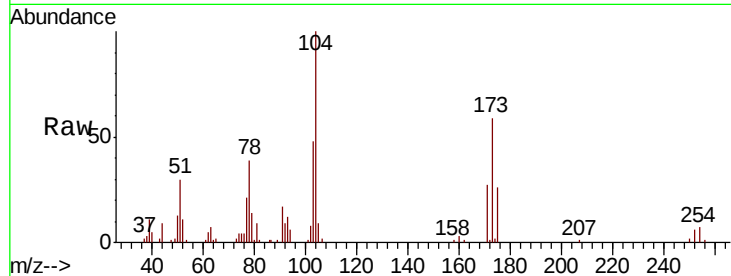
Tgt Ion:173 Resp: 18745

Ion Ratio Lower Upper

173 100

175 44.5 24.0 72.0

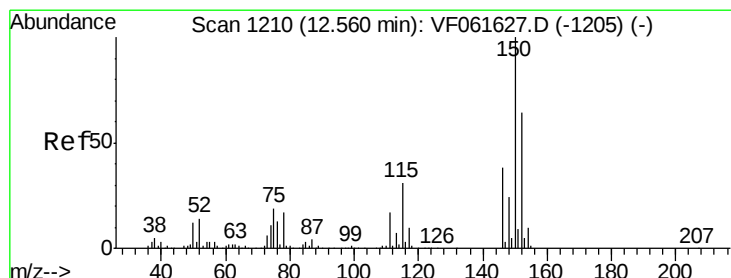
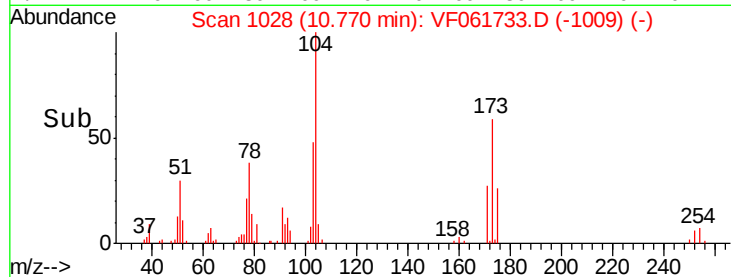
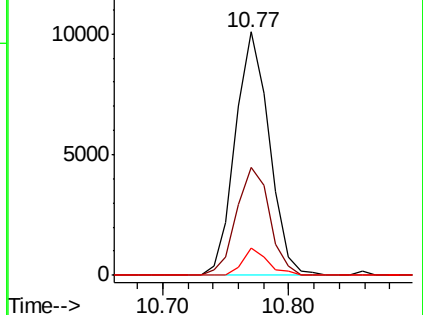
254 11.1 8.2 12.2



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

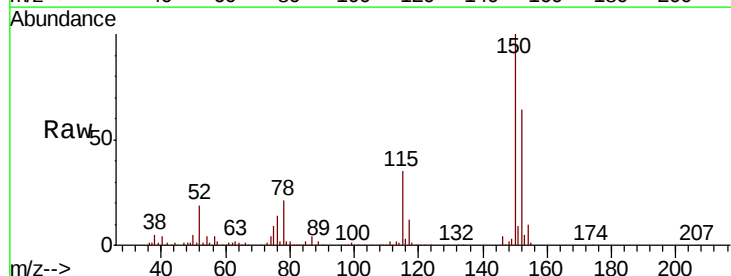
Tgt Ion:152 Resp: 251639

Ion Ratio Lower Upper

152 100

115 55.3 24.3 72.8

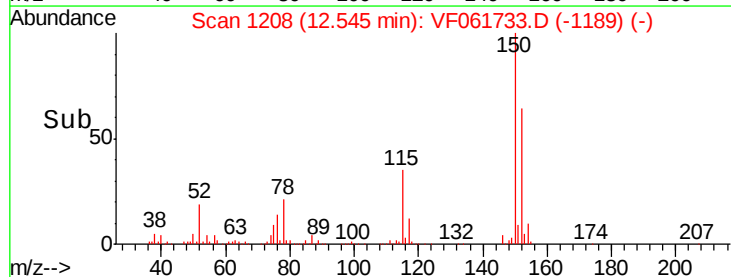
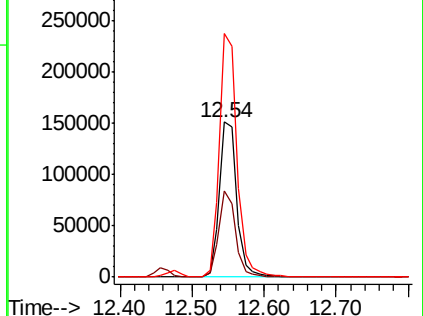
150 157.0 0.0 312.0

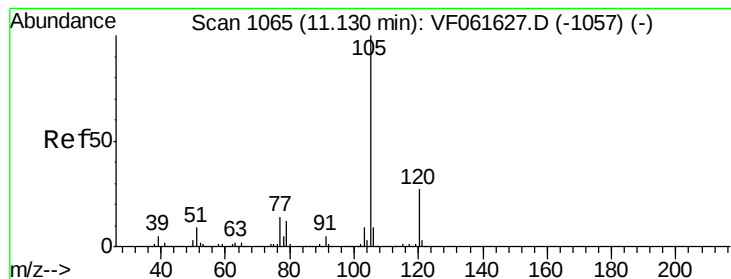


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 10.271 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

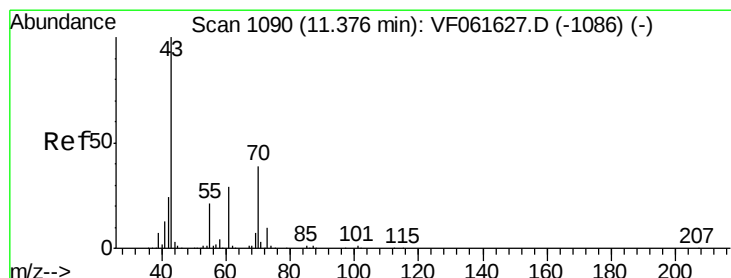
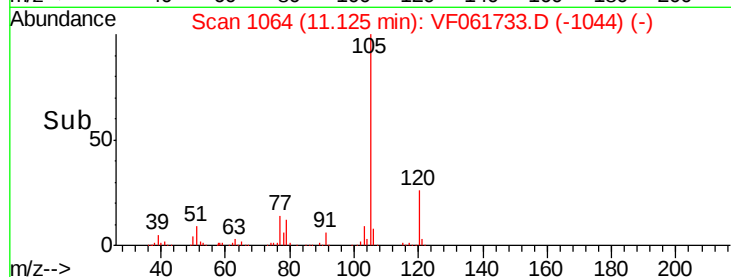
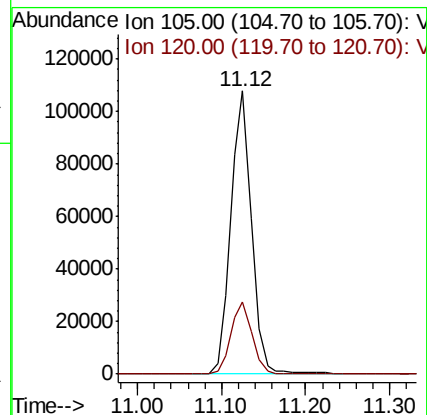
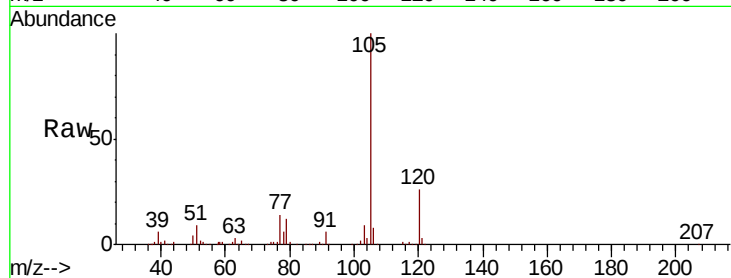
LOQ-SOIL-02-QT1-2019

Tgt Ion:105 Resp: 184024

Ion Ratio Lower Upper

105 100

120 25.6 13.4 40.1



#74

N-ethyl acetate

Concen: 9.488 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Tgt Ion: 43 Resp: 40803

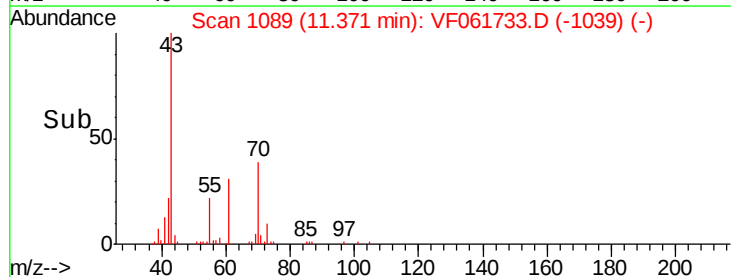
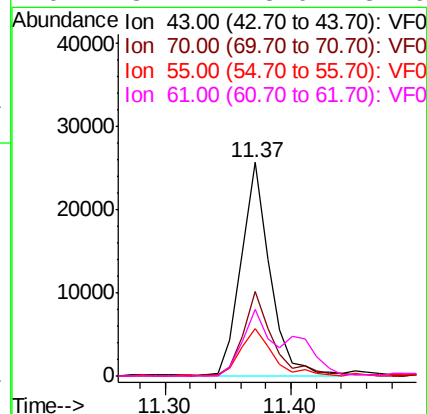
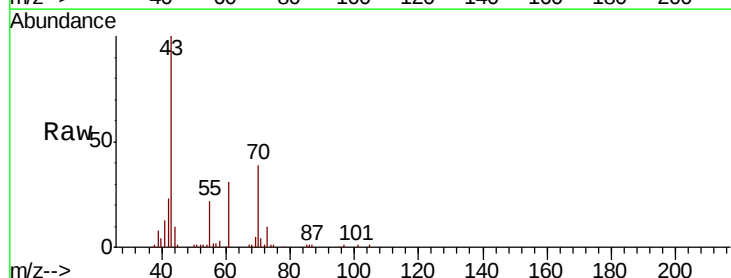
Ion Ratio Lower Upper

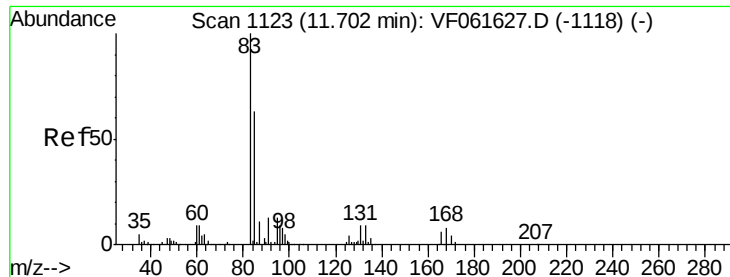
43 100

70 39.3 31.5 47.3

55 22.2 16.7 25.1

61 31.2 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 9.737 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

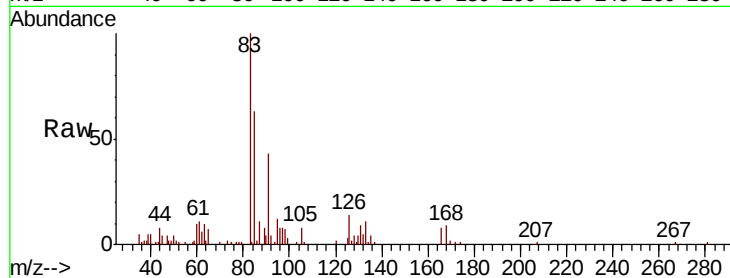
Tgt Ion: 83 Resp: 31254

Ion Ratio Lower Upper

83 100

131 9.2 4.4 13.2

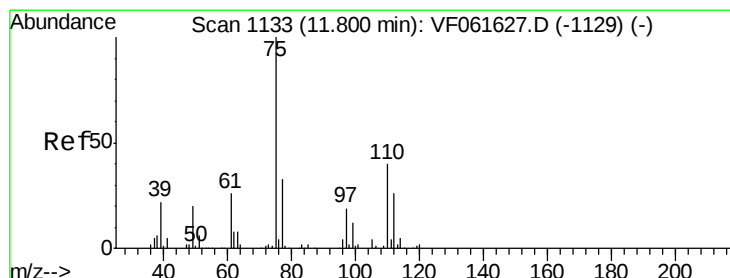
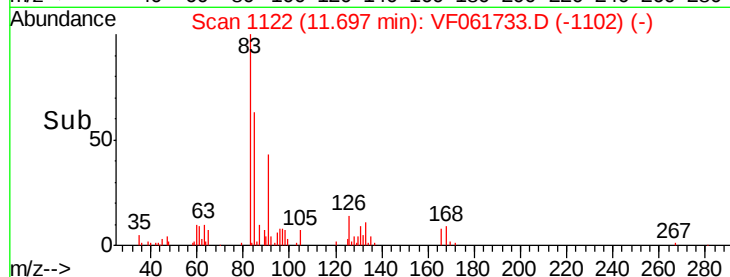
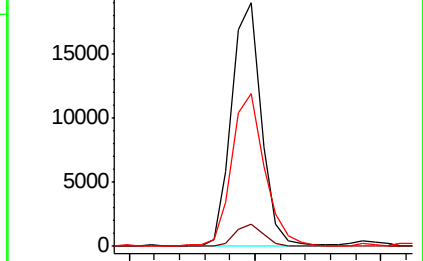
85 62.6 31.5 94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 9.219 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF061733.D

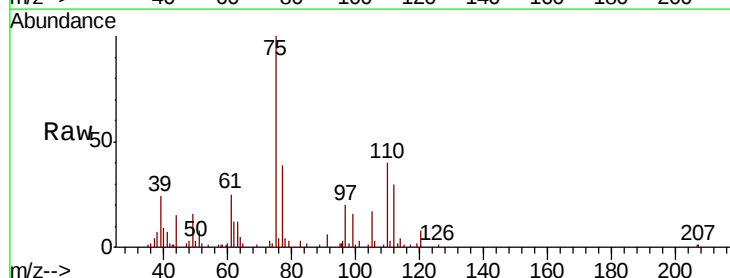
Acq: 25 Feb 2019 16:35

Tgt Ion: 75 Resp: 20118

Ion Ratio Lower Upper

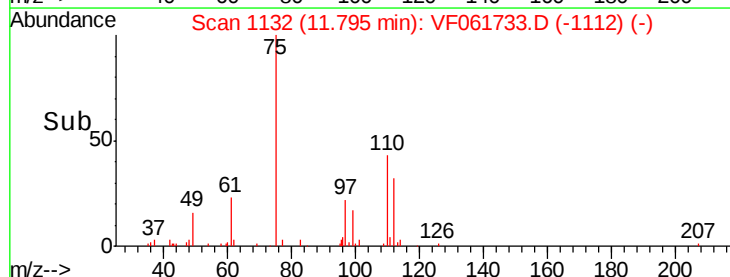
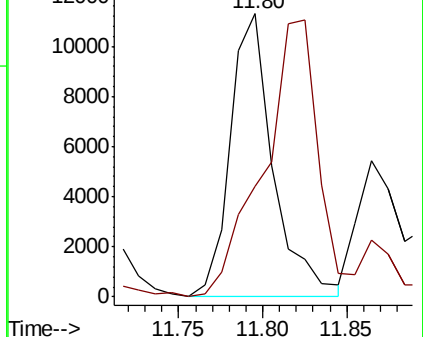
75 100

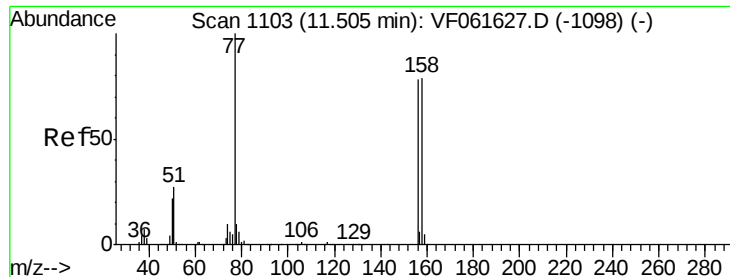
77 39.1 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 9.618 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

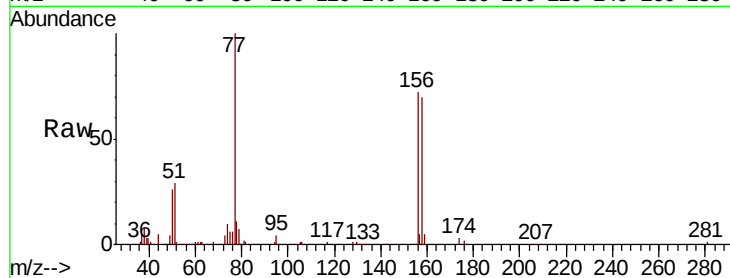
Tgt Ion:156 Resp: 42572

Ion Ratio Lower Upper

156 100

77 138.0 64.3 192.7

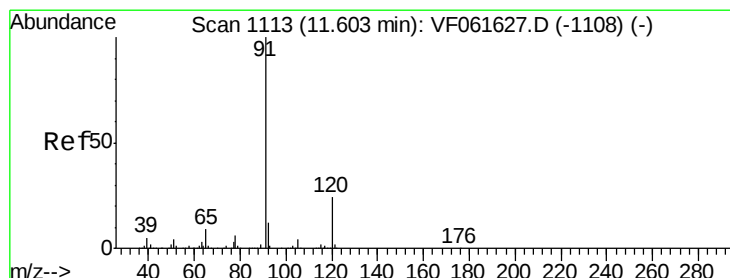
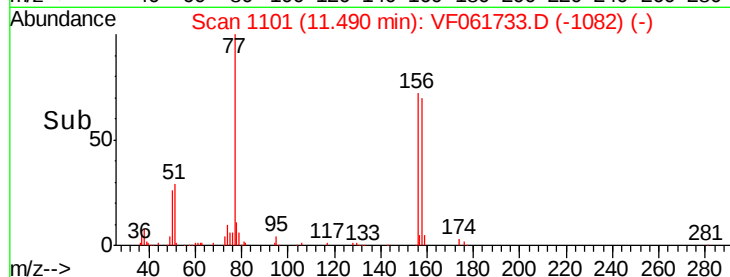
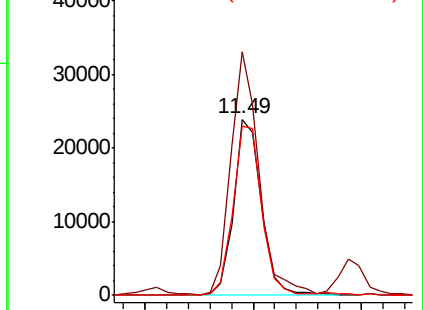
158 96.2 50.9 152.7



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: 10.885 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF061733.D

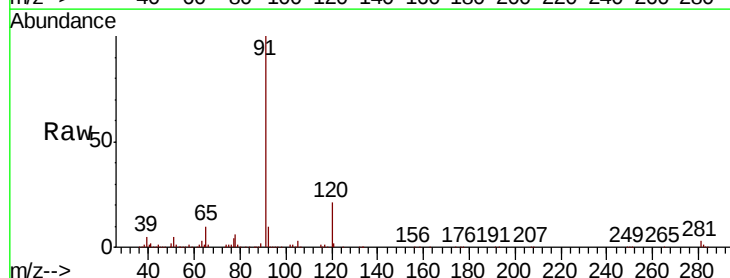
Acq: 25 Feb 2019 16:35

Tgt Ion: 91 Resp: 223783

Ion Ratio Lower Upper

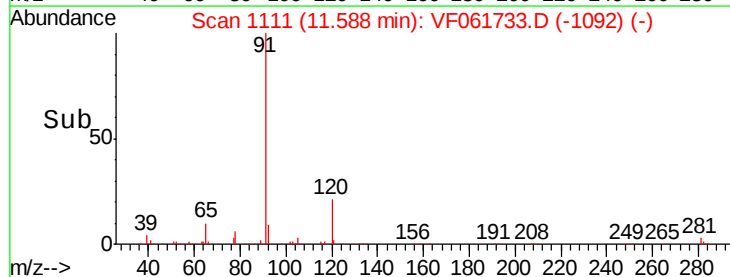
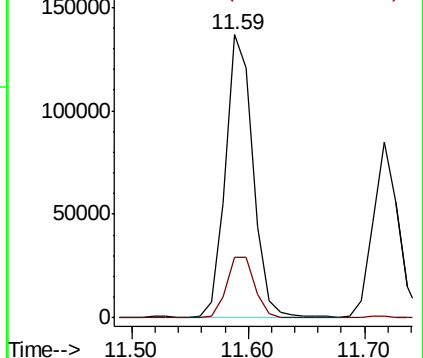
91 100

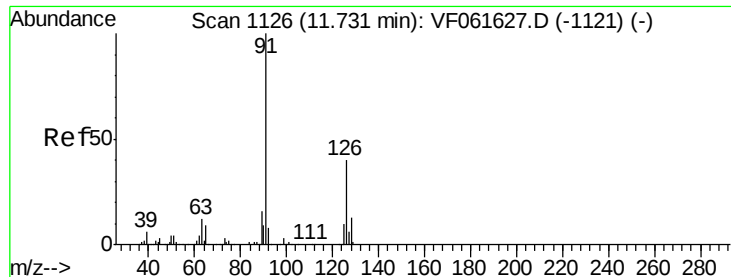
120 21.4 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 10.989 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

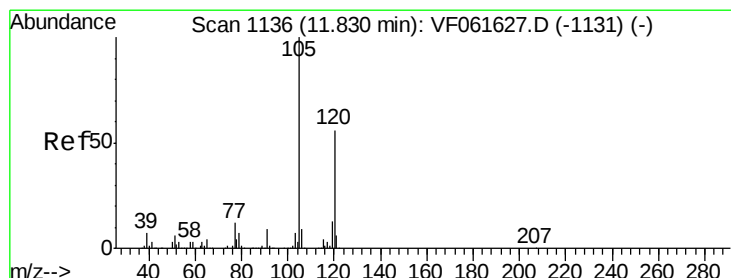
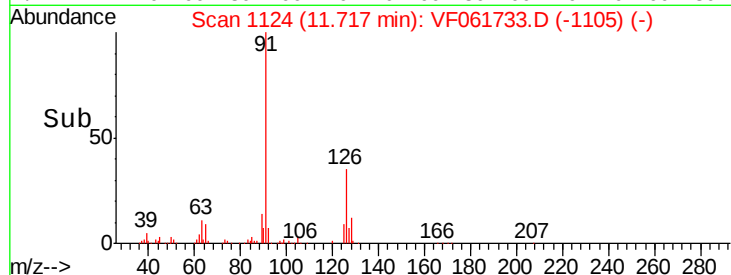
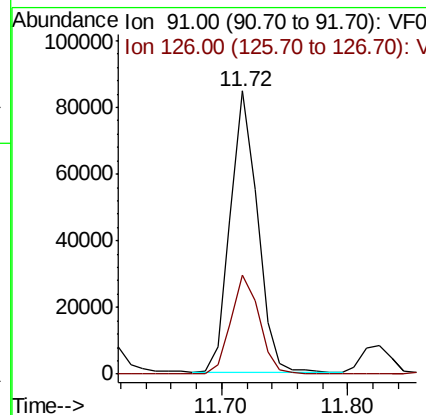
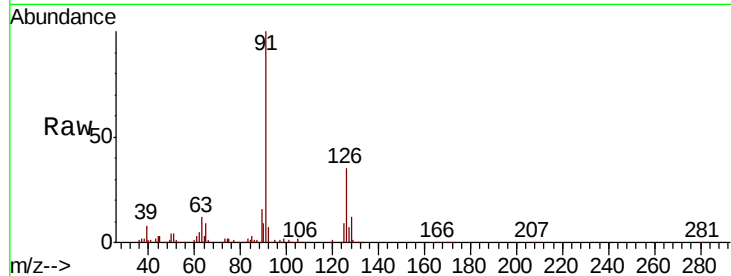
LOQ-SOIL-02-QT1-2019

Tgt Ion: 91 Resp: 126533

Ion Ratio Lower Upper

91 100

126 35.0 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 10.747 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061733.D

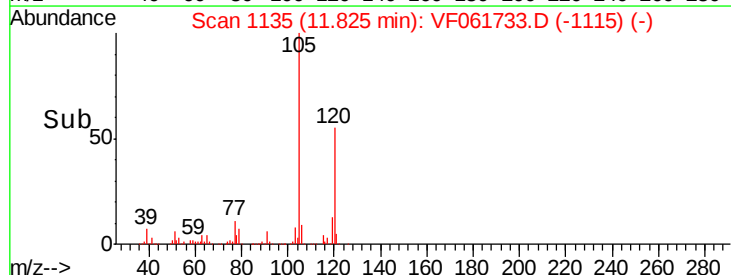
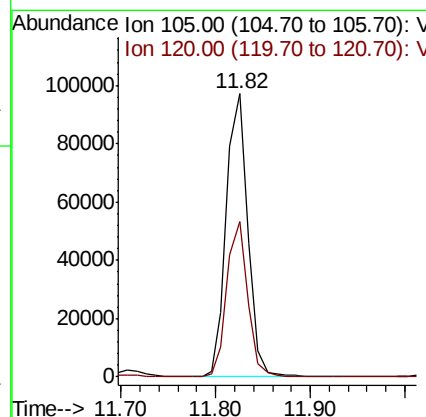
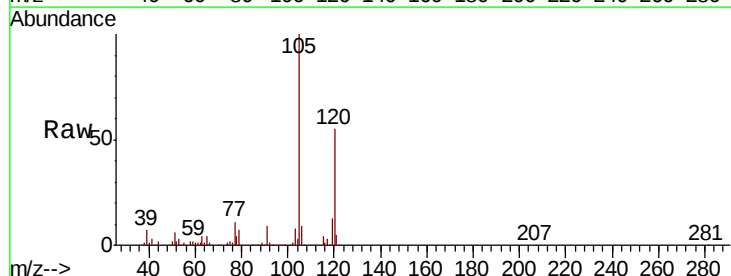
Acq: 25 Feb 2019 16:35

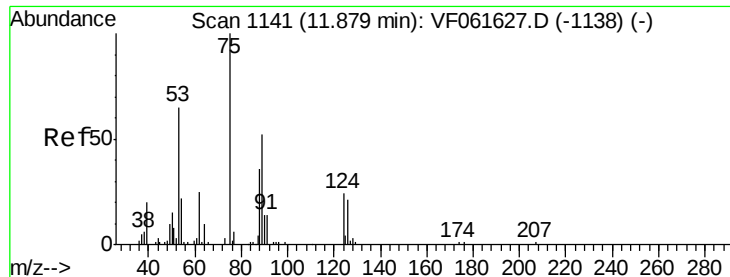
Tgt Ion: 105 Resp: 153883

Ion Ratio Lower Upper

105 100

120 55.0 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 11.902 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

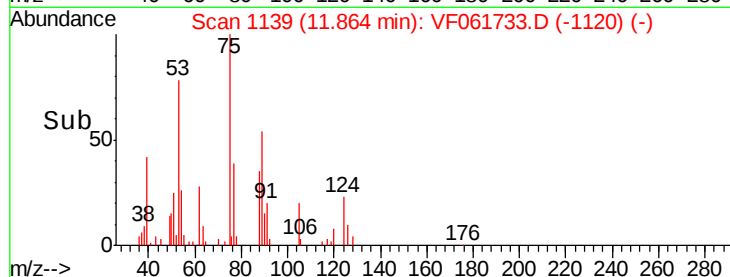
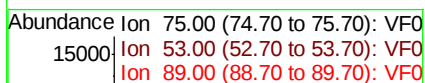
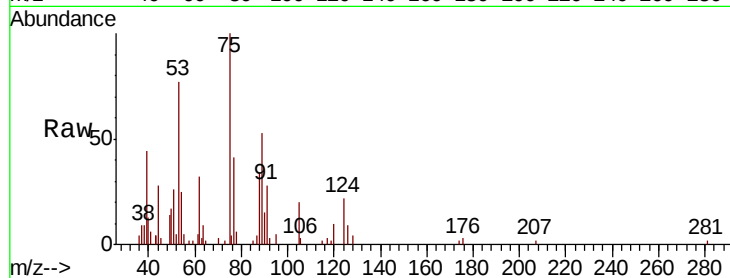
Tgt Ion: 75 Resp: 12452

Ion Ratio Lower Upper

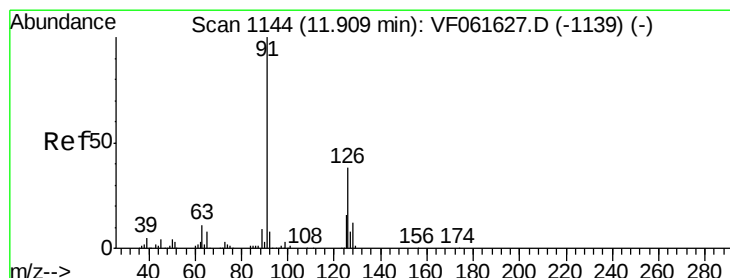
75 100

53 76.7 53.7 80.5

89 52.8 41.6 62.4



Time-->



#82

4-Chlorotoluene

Concen: 10.201 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF061733.D

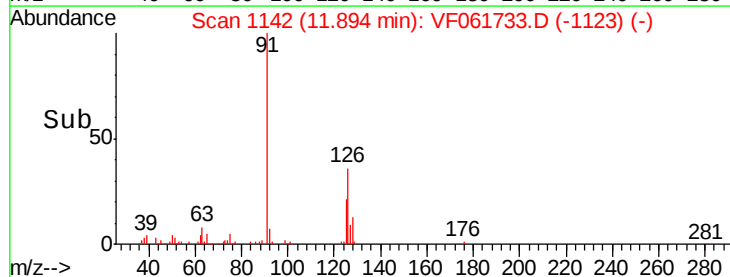
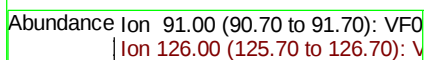
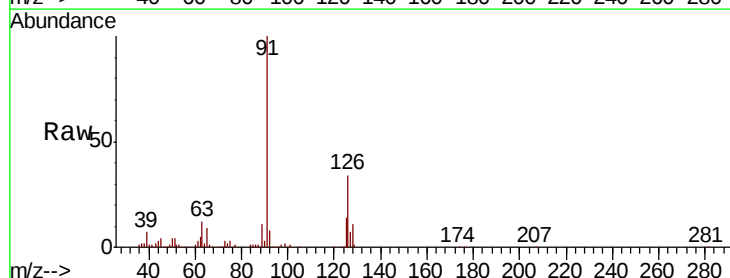
Acq: 25 Feb 2019 16:35

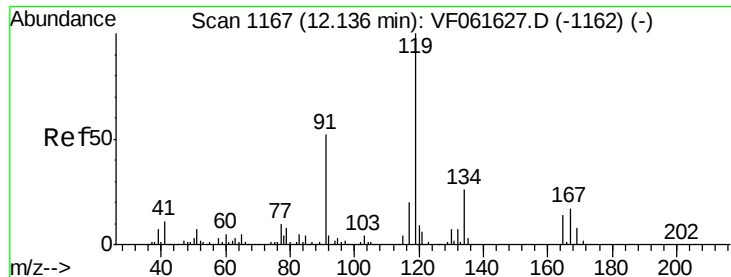
Tgt Ion: 91 Resp: 121916

Ion Ratio Lower Upper

91 100

126 33.6 19.1 57.1

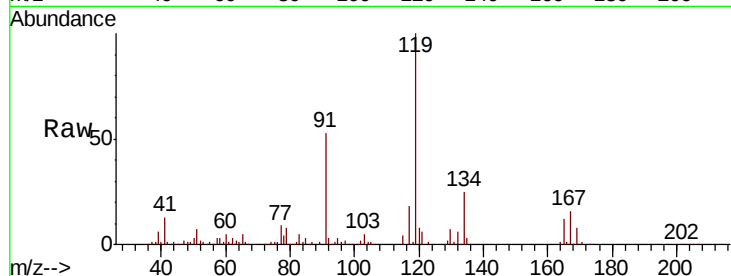




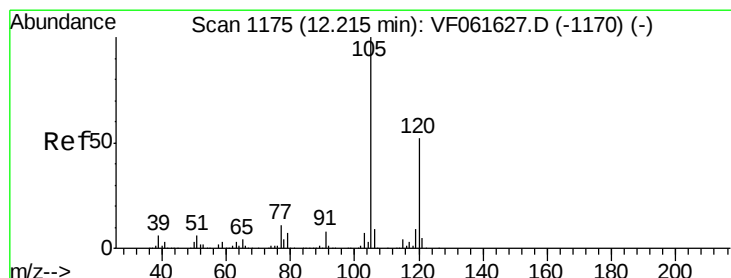
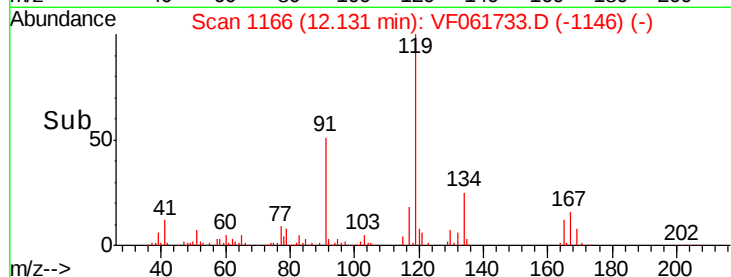
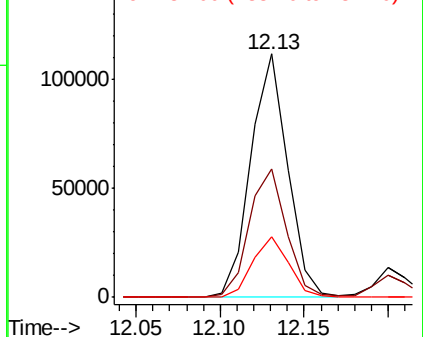
#83
tert-Butylbenzene
Concen: 10.721 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

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

Tgt Ion:119 Resp: 170036
Ion Ratio Lower Upper
119 100
91 52.9 26.3 78.8
134 24.9 12.9 38.7

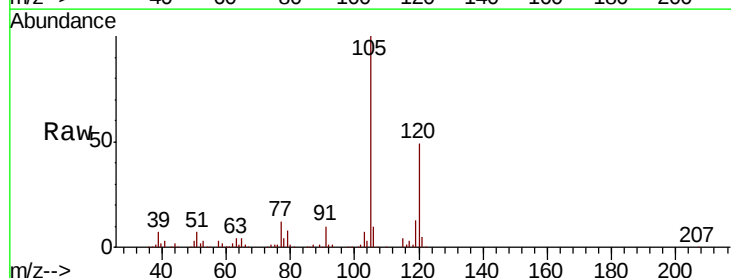


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

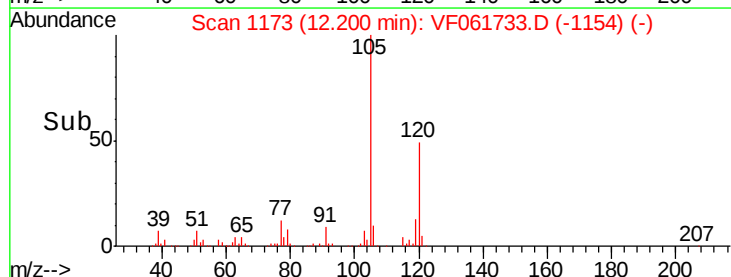
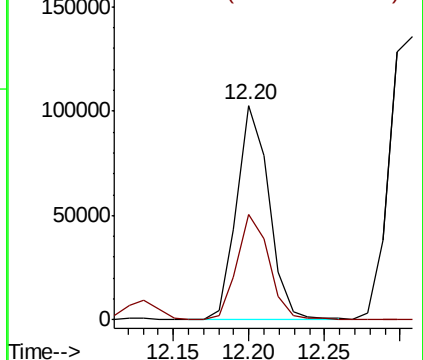


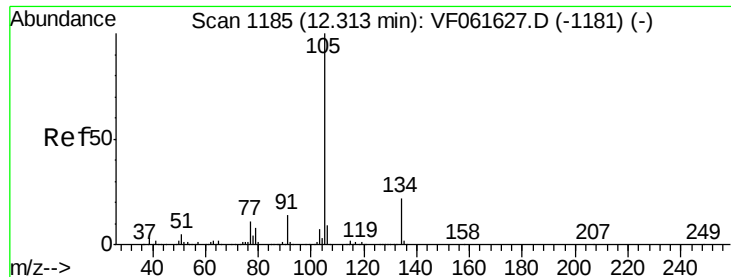
#84
1,2,4-Trimethylbenzene
Concen: 10.818 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.01 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion:105 Resp: 153898
Ion Ratio Lower Upper
105 100
120 49.2 26.1 78.3



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





#85

sec-Butylbenzene

Concen: 10.728 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

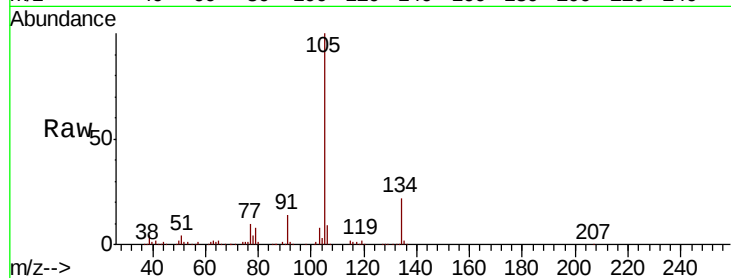
LOQ-SOIL-02-QT1-2019

Tgt Ion:105 Resp: 220038

Ion Ratio Lower Upper

105 100

134 21.8 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.31

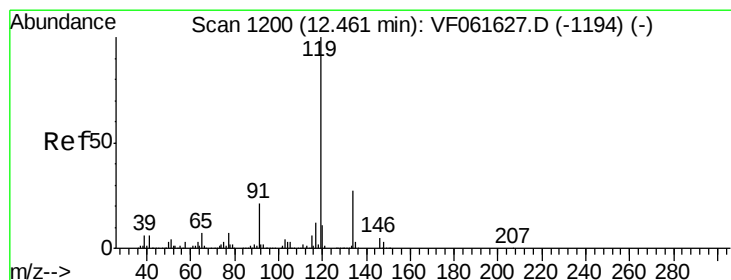
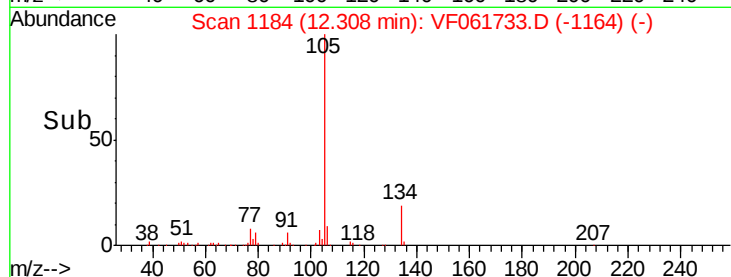
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 10.628 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

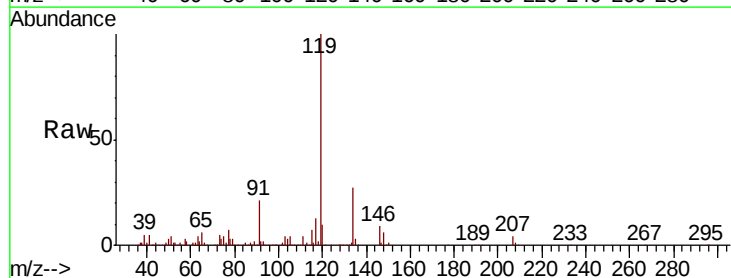
Tgt Ion:119 Resp: 182931

Ion Ratio Lower Upper

119 100

134 26.7 13.7 41.1

91 21.2 10.8 32.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

12.46

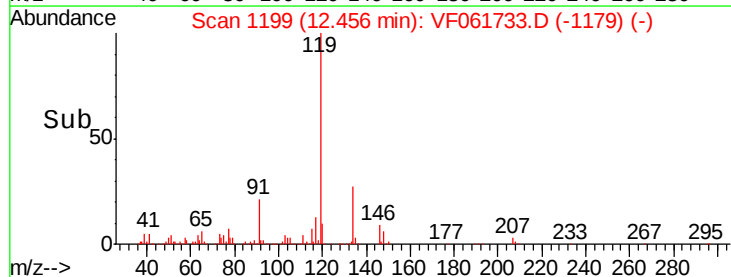
150000

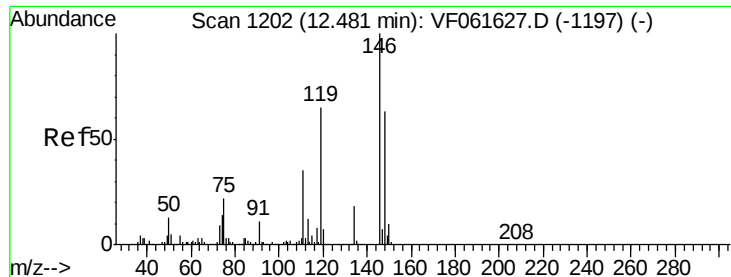
100000

50000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 10.645 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

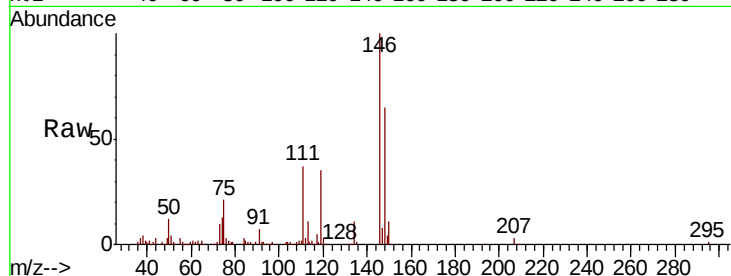
Tgt Ion:146 Resp: 91849

Ion Ratio Lower Upper

146 100

111 36.6 17.5 52.6

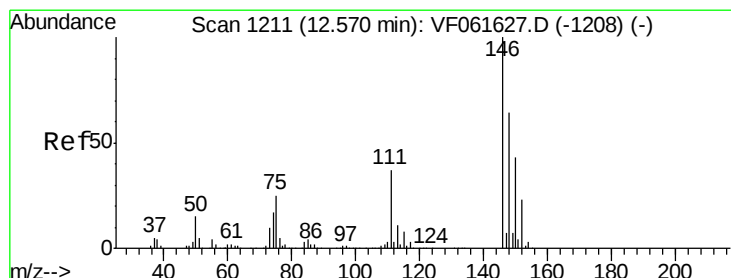
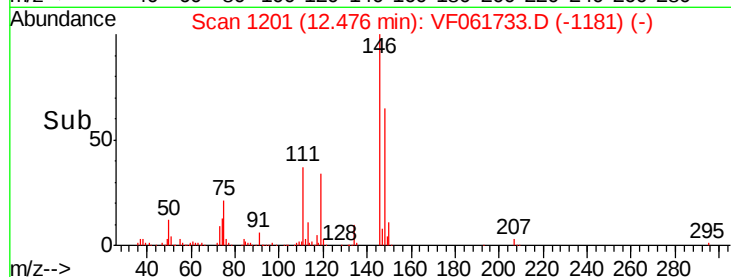
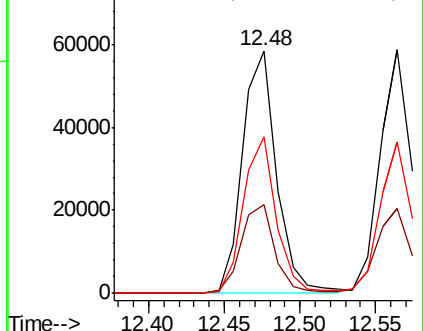
148 64.7 31.4 94.3



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: 10.586 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

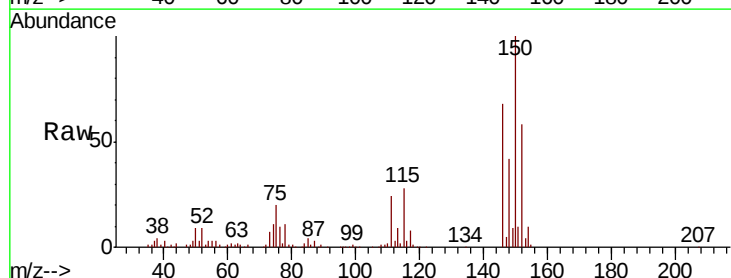
Tgt Ion:146 Resp: 87849

Ion Ratio Lower Upper

146 100

111 34.7 18.4 55.4

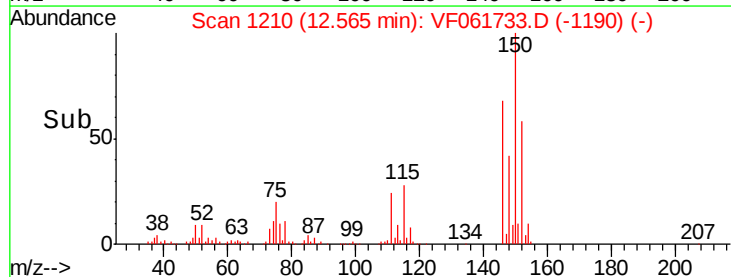
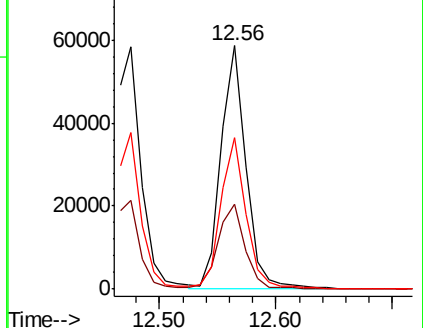
148 62.0 32.2 96.6

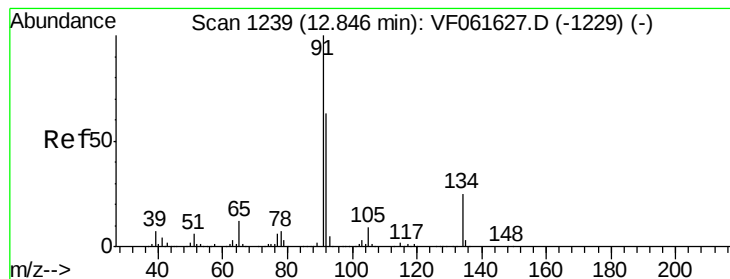


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 10.878 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VF061733.D

Acq: 25 Feb 2019 16:35

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

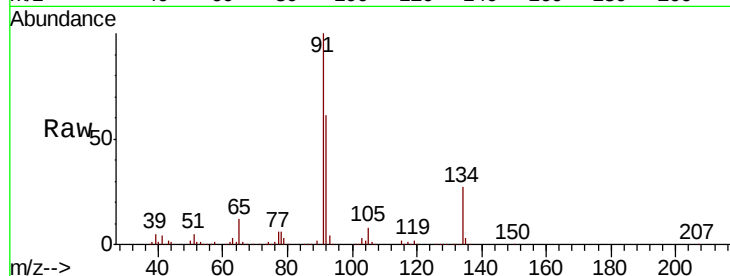
Tgt Ion: 91 Resp: 176808

Ion Ratio Lower Upper

91 100

92 60.6 31.4 94.3

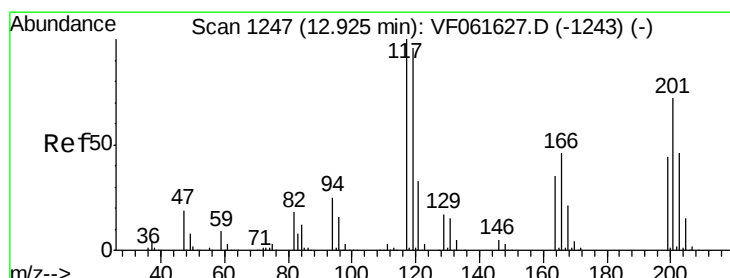
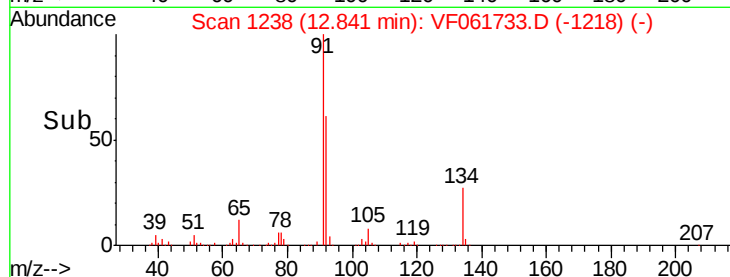
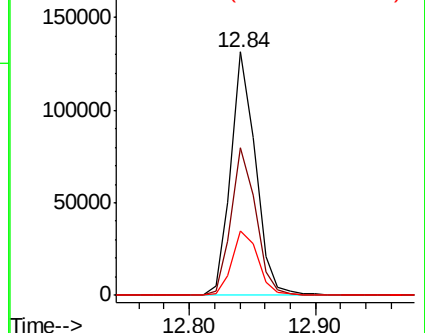
134 26.6 12.3 36.9



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: 10.709 ug/l

RT: 12.92 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VF061733.D

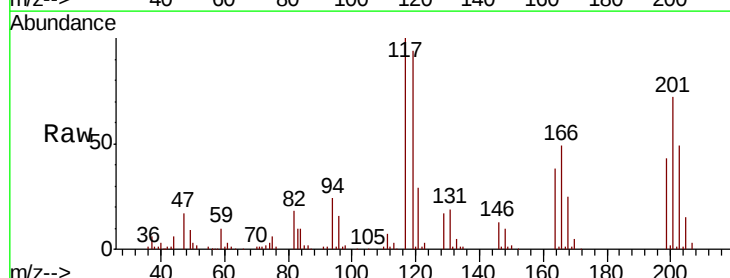
Acq: 25 Feb 2019 16:35

Tgt Ion: 117 Resp: 42871

Ion Ratio Lower Upper

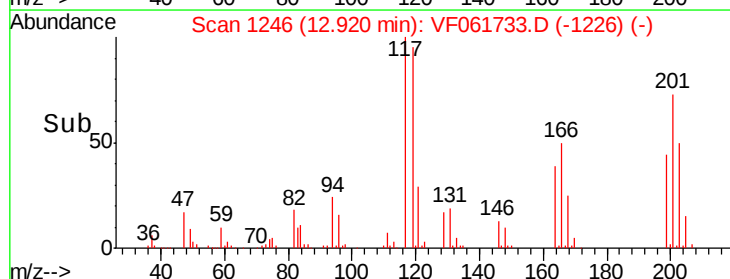
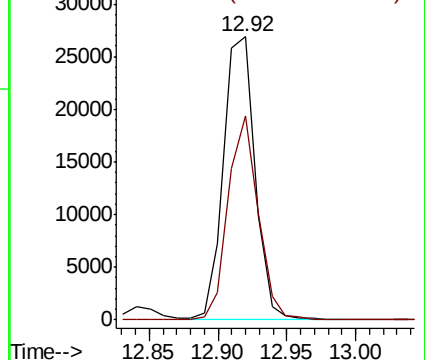
117 100

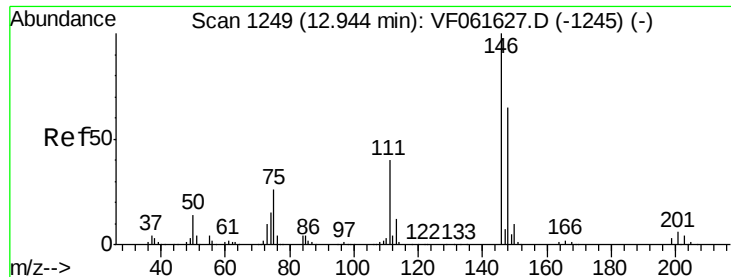
201 72.1 36.2 108.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

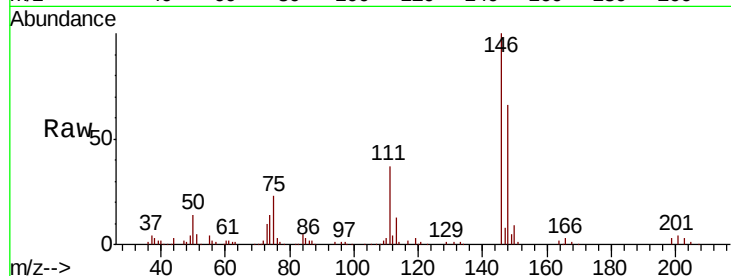




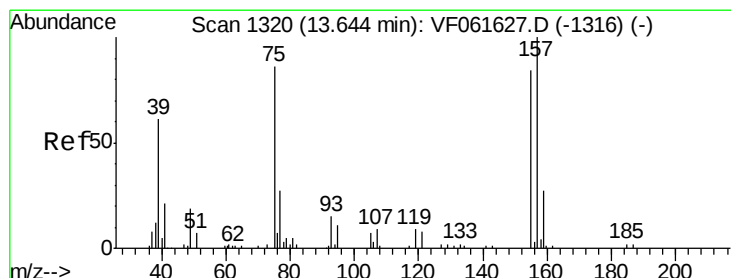
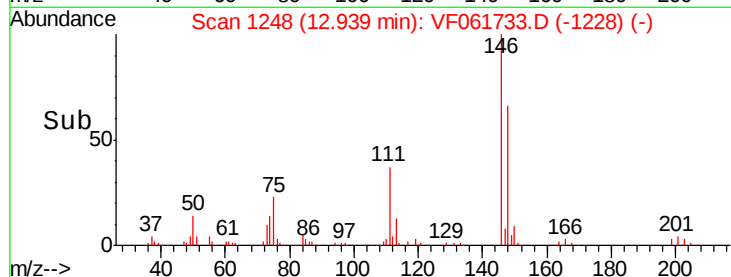
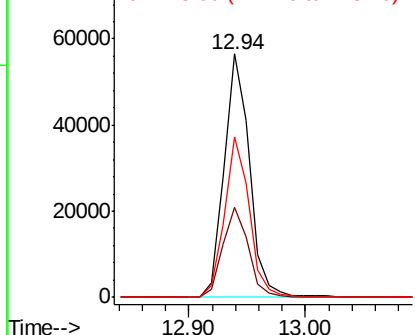
#91
 1,2-Dichlorobenzene
 Concen: 10.391 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

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

Tgt Ion: 146 Resp: 85285
 Ion Ratio Lower Upper
 146 100
 111 36.9 20.2 60.5
 148 66.0 32.3 96.9

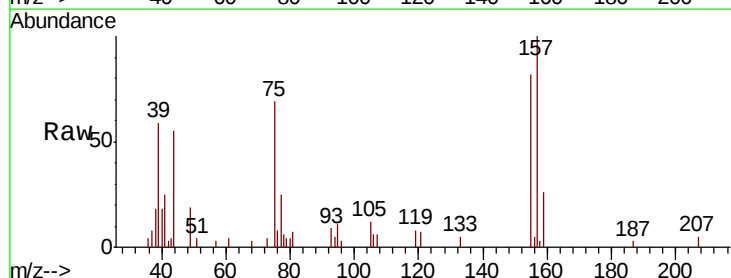


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

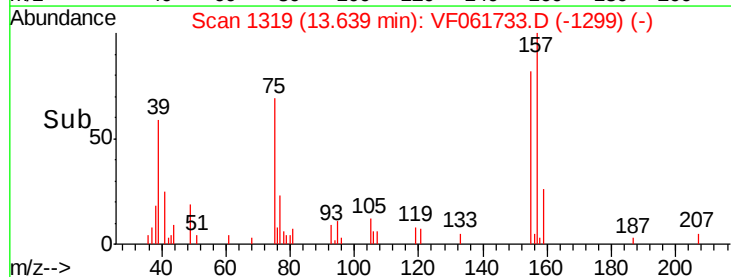
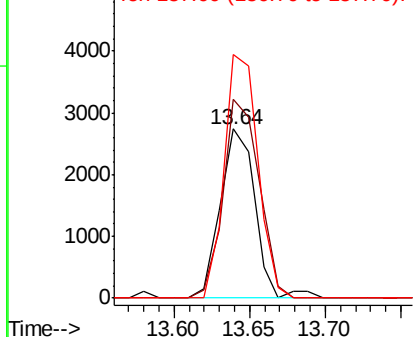


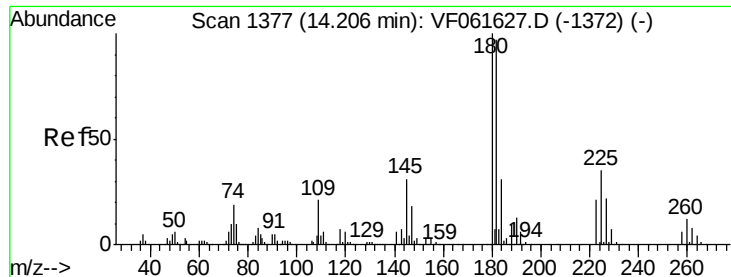
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 8.632 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

Tgt Ion: 75 Resp: 4393
 Ion Ratio Lower Upper
 75 100
 155 117.9 48.9 146.8
 157 143.9 58.3 174.8



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

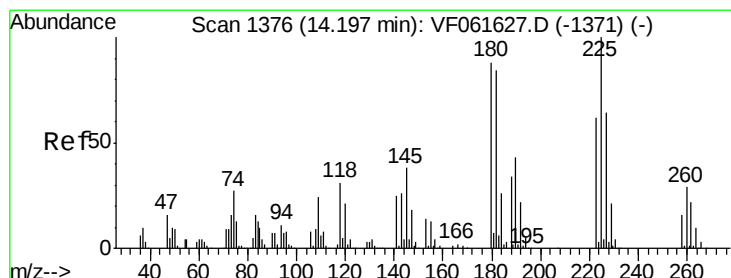
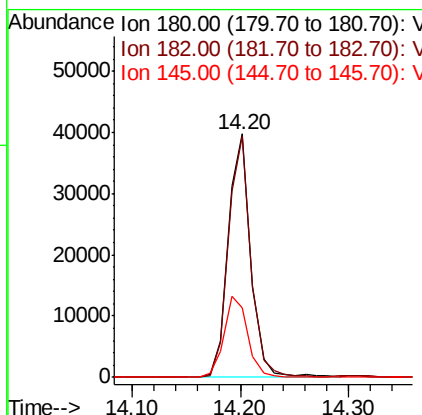
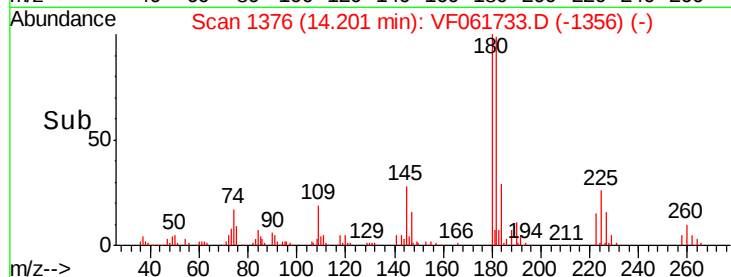
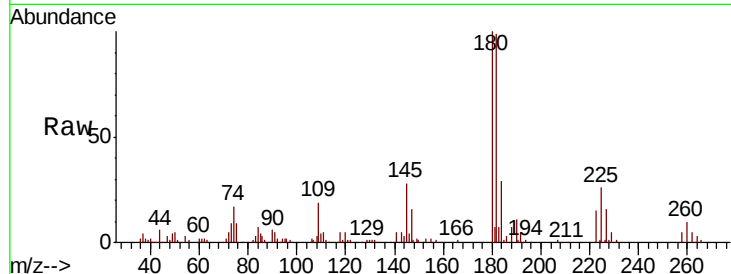




#93
 1,2,4-Trichlorobenzene
 Concen: 9.785 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

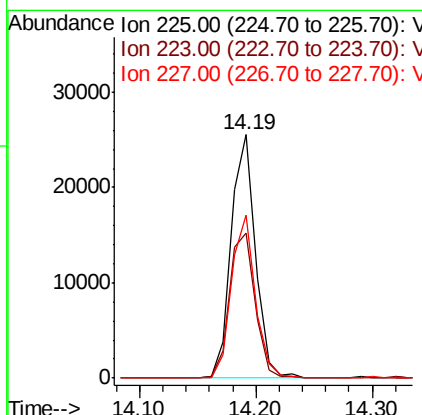
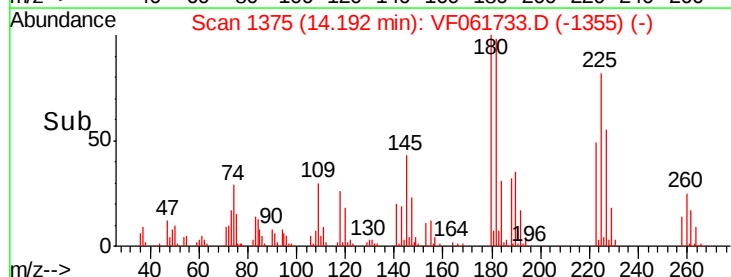
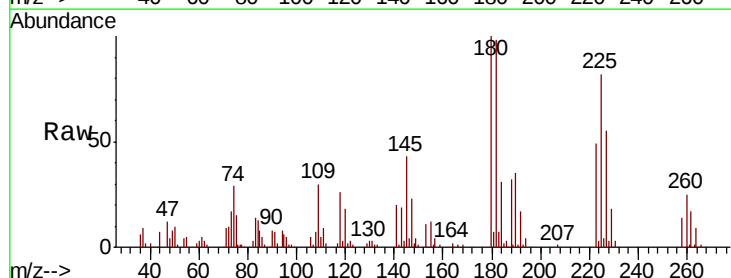
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

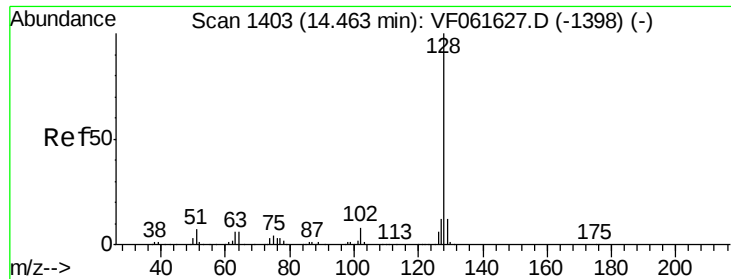
Tgt Ion:180 Resp: 57564
 Ion Ratio Lower Upper
 180 100
 182 98.8 48.6 145.9
 145 28.4 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: 10.145 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061733.D
 Acq: 25 Feb 2019 16:35

Tgt Ion:225 Resp: 36859
 Ion Ratio Lower Upper
 225 100
 223 59.4 30.9 92.7
 227 66.8 32.1 96.3

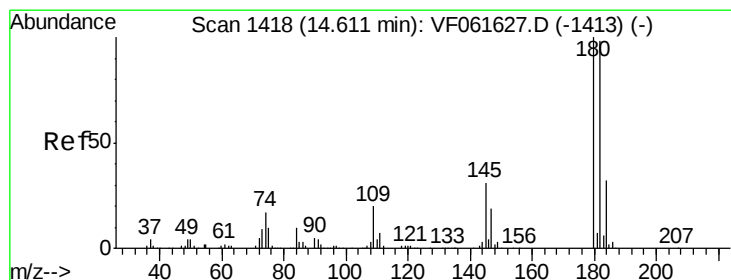
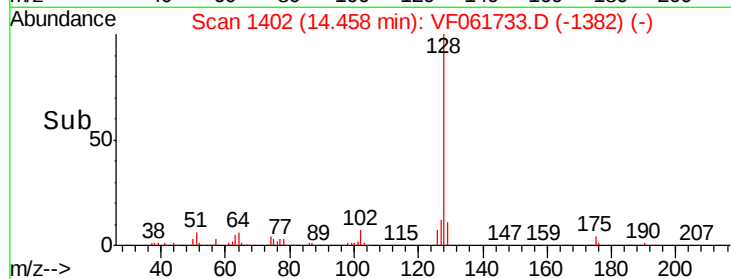
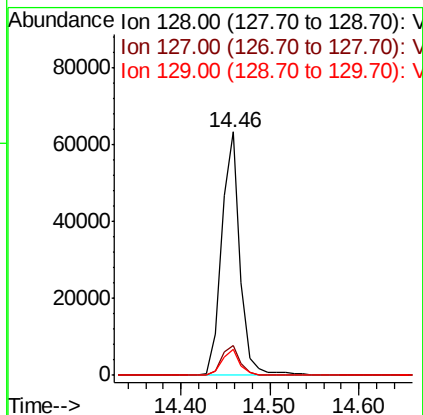
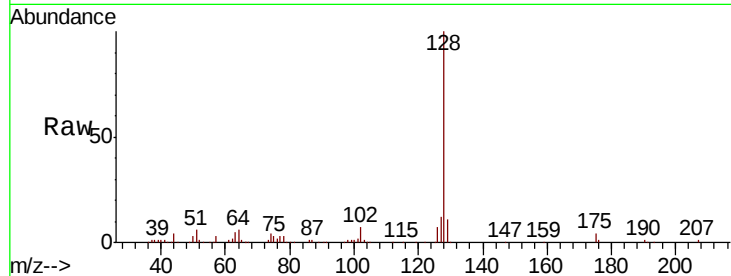




#95
Naphthalene
Concen: 8.971 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

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

Tgt Ion:128 Resp: 92337
Ion Ratio Lower Upper
128 100
127 12.4 9.8 14.6
129 10.6 9.4 14.2



#96
1,2,3-Trichlorobenzene
Concen: 9.738 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF061733.D
Acq: 25 Feb 2019 16:35

Tgt Ion:180 Resp: 52579
Ion Ratio Lower Upper
180 100
182 94.4 49.0 147.2
145 27.2 15.4 46.1

