

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022619\
 Data File : VF061746.D
 Acq On : 26 Feb 2019 17:32
 Operator : VA/AP
 Sample : K1560-02L0010PPB
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 2/27/2019 3:19:38 PM

Quant Time: Feb 27 05:20:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	300437	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.57	114	439272	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	395795	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.53	152	224402	50.00	ug/l	-0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	123207	55.92	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	111.84%	
35) Dibromofluoromethane	4.08	113	184862	56.67	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	113.34%	
50) Toluene-d8	7.53	98	491780	52.44	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	104.88%	
62) 4-Bromofluorobenzene	11.40	95	212386	55.97	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	111.94%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.95	85	44261	12.829	ug/l	95
3) Chloromethane	1.09	50	40810	11.273	ug/l	90
4) Vinyl Chloride	1.14	62	40362	11.994	ug/l	96
5) Bromomethane	1.33	94	30117	13.003	ug/l	99
6) Chloroethane	1.37	64	20121	12.133	ug/l	98
7) Trichlorofluoromethane	1.48	101	51861	12.777	ug/l	97
8) Diethyl Ether	1.62	74	11411	11.156	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.83	101	34760	11.871	ug/l	93
10) Methyl Iodide	1.89	142	67328m	12.037	ug/l	
11) Tert butyl alcohol	2.55	59	6814	53.441	ug/l	99
12) 1,1-Dichloroethene	1.79	96	30948	12.021	ug/l	95
13) Acrolein	1.99	56	6890	42.995	ug/l	93
14) Allyl chloride	2.08	41	34150	10.810	ug/l	94
15) Acrylonitrile	2.93	53	23325	51.574	ug/l	91
16) Acetone	2.23	43	29709	62.850	ug/l	94
17) Carbon Disulfide	1.83	76	91267	11.278	ug/l	98
18) Methyl Acetate	2.34	43	21484m	20.175	ug/l	
19) Methyl tert-butyl Ether	2.42	73	54729	12.439	ug/l	93
20) Methylene Chloride	2.17	84	40965m	14.377	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	33180	11.856	ug/l	96
22) Diisopropyl ether	2.78	45	86825	11.450	ug/l	93
23) Vinyl Acetate	3.17	43	197723	53.383	ug/l	98
24) 1,1-Dichloroethane	2.85	63	53695	11.701	ug/l	98
25) 2-Butanone	4.32	43	59695	57.815	ug/l	93
26) 2,2-Dichloropropane	3.57	77	24903	12.811	ug/l	97
27) cis-1,2-Dichloroethene	3.46	96	42441	11.554	ug/l	96
28) Bromochloromethane	3.70	49	23167	10.521	ug/l	98
29) Tetrahydrofuran	4.05	42	25509	54.357	ug/l	100
30) Chloroform	3.84	83	63031	12.078	ug/l	93
31) Cyclohexane	3.67	56	58590	11.794	ug/l	95
32) 1,1,1-Trichloroethane	4.07	97	43917	12.846	ug/l	97
36) 1,1-Dichloropropene	4.26	75	51028	11.726	ug/l	91
37) Ethyl Acetate	4.08	43	24240	11.993	ug/l #	86
38) Carbon Tetrachloride	3.97	117	38577	12.839	ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	55000	10.687	ug/l	95
40) Benzene	4.61	78	129111	11.343	ug/l	97
41) Methacrylonitrile	4.72	41	12265	11.866	ug/l	92
42) 1,2-Dichloroethane	4.92	62	32555	11.957	ug/l	91
43) Isopropyl Acetate	6.94	43	26685	11.154	ug/l #	95
44) Trichloroethene	5.48	130	42172	11.458	ug/l	93
45) 1,2-Dichloropropane	6.21	63	32970	11.984	ug/l	98
46) Dibromomethane	6.07	93	19136	11.297	ug/l	91
47) Bromodichloromethane	6.36	83	45316	12.216	ug/l #	92
48) Methyl methacrylate	6.70	41	16741	11.628	ug/l	96
49) 1,4-Dioxane	6.69	88	2541	187.745	ug/l #	72
51) 4-Methyl-2-Pentanone	8.24	43	96797	56.624	ug/l	98
52) Toluene	7.60	92	80698	11.690	ug/l	91
53) t-1,3-Dichloropropene	8.25	75	38782	12.562	ug/l	93
54) cis-1,3-Dichloropropene	7.28	75	52038	12.654	ug/l	96
55) 1,1,2-Trichloroethane	8.47	97	23742	11.706	ug/l #	94
56) Ethyl methacrylate	8.60	69	24809	10.987	ug/l	94
57) 1,3-Dichloropropane	8.84	76	39969	11.807	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.28	63	20366	52.274	ug/l	95
59) 2-Hexanone	9.48	43	71730	59.860	ug/l	96
60) Dibromochloromethane	8.70	129	31152	11.035	ug/l	95
61) 1,2-Dibromoethane	8.96	107	24922	11.329	ug/l	97
64) Tetrachloroethene	8.14	164	39310	12.151	ug/l	95
65) Chlorobenzene	9.77	112	95746	11.921	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.91	131	37486	11.911	ug/l	94
67) Ethyl Benzene	9.88	91	155714	11.658	ug/l	99
68) m/p-Xylenes	10.11	106	121195	23.709	ug/l	93
69) o-Xylene	10.69	106	61608	11.295	ug/l	93
70) Styrene	10.77	104	92796	12.026	ug/l	97
71) Bromoform	10.76	173	18949	11.088	ug/l	97
73) Isopropylbenzene	11.10	105	187649	11.745	ug/l	95
74) N-amyl acetate	11.36	43	41631	10.856	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.68	83	31761	11.096	ug/l	88
76) 1,2,3-Trichloropropane	11.77	75	21794	11.199	ug/l	100
77) Bromobenzene	11.48	156	45714	11.582	ug/l	98
78) n-propylbenzene	11.58	91	224408	12.240	ug/l	96
79) 2-Chlorotoluene	11.71	91	122930	11.972	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	159011	12.452	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	9813m	10.518	ug/l	
82) 4-Chlorotoluene	11.88	91	123509	11.589	ug/l	96
83) tert-Butylbenzene	12.12	119	169668	11.996	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	156558	12.341	ug/l	97
85) sec-Butylbenzene	12.29	105	220917	12.079	ug/l	93
86) p-Isopropyltoluene	12.45	119	186979	12.181	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	94595	12.293	ug/l	96
88) 1,4-Dichlorobenzene	12.55	146	86627	11.706	ug/l	96
89) n-Butylbenzene	12.83	91	181786	12.542	ug/l	94
90) Hexachloroethane	12.90	117	43032	12.054	ug/l	85
91) 1,2-Dichlorobenzene	12.93	146	86106	11.765	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	4473	9.856	ug/l #	62

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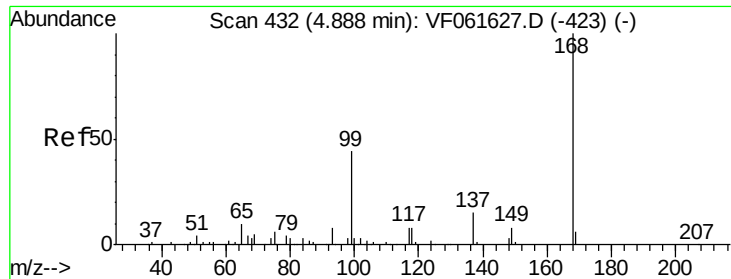
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	60557	11.543	ug/l	96
94) Hexachlorobutadiene	14.18	225	39739	12.265	ug/l	97
95) Naphthalene	14.45	128	93573	10.195	ug/l	96
96) 1,2,3-Trichlorobenzene	14.59	180	52488	10.901	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

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Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:168 Resp: 300437

Ion Ratio Lower Upper

168 100

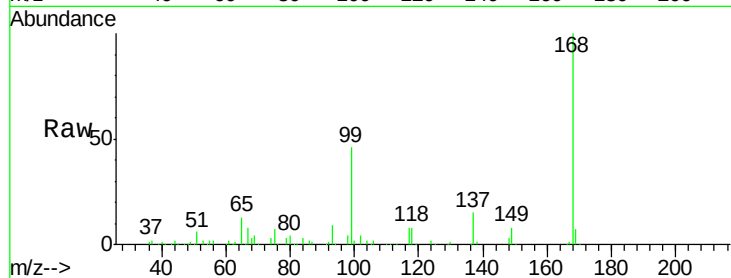
99 45.9 34.9 52.3

Manual Integrations

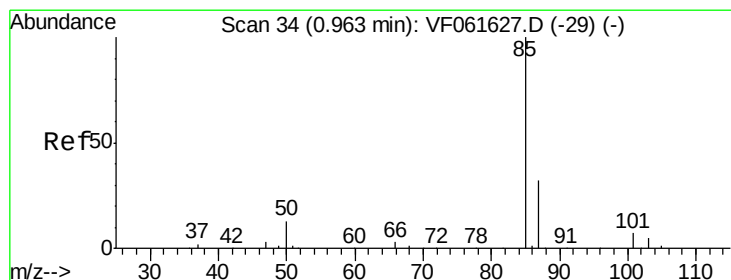
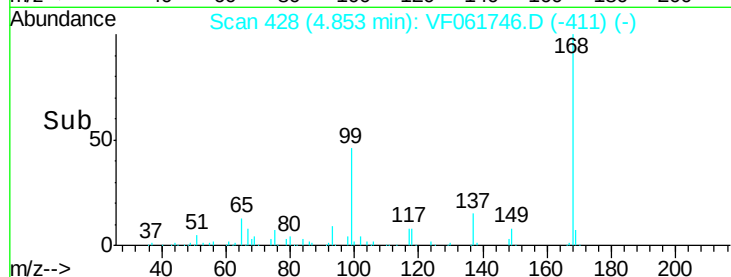
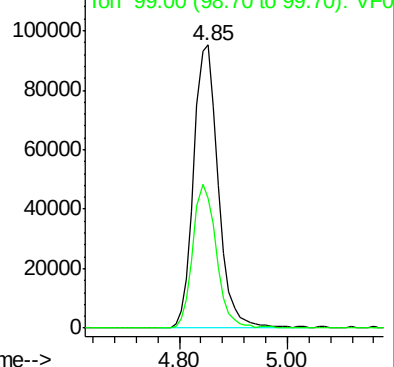
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Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 12.829 ug/l

RT: 0.95 min Scan# 32

Delta R.T. -0.02 min

Lab File: VF061746.D

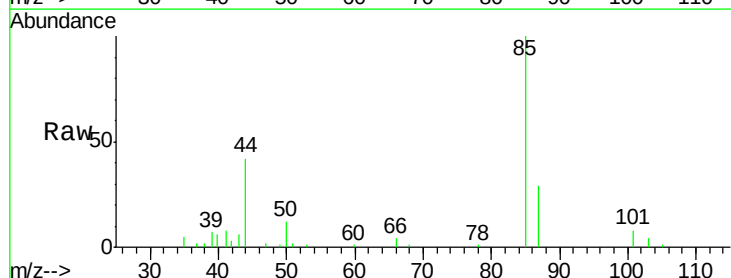
Acq: 26 Feb 2019 17:32

Tgt Ion: 85 Resp: 44261

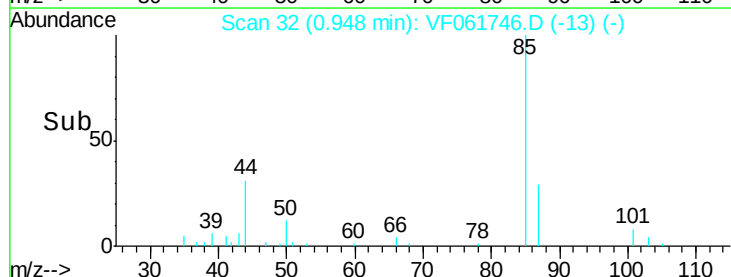
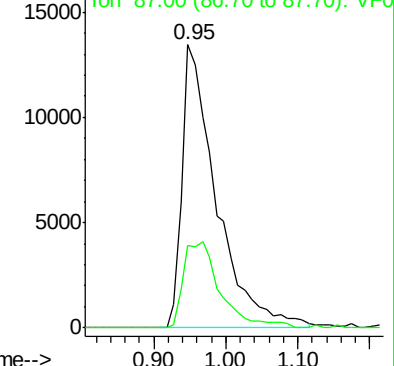
Ion Ratio Lower Upper

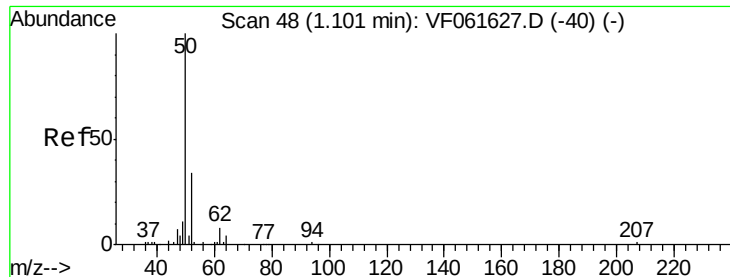
85 100

87 29.1 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 11.273 ug/l

RT: 1.09 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 50 Resp: 40810

Ion Ratio Lower Upper

50 100

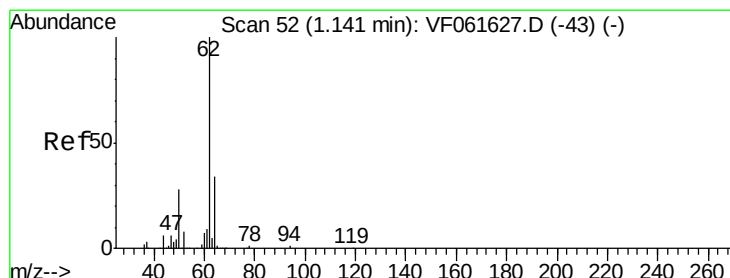
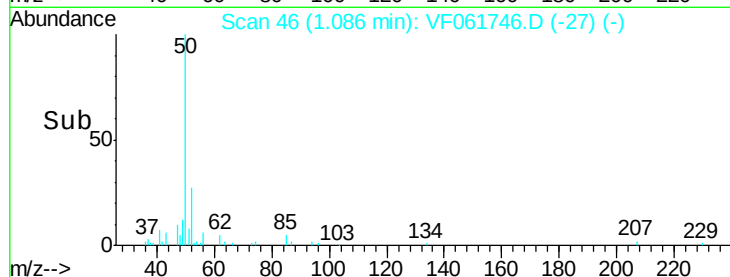
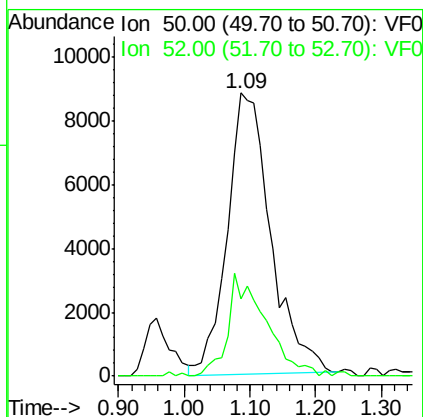
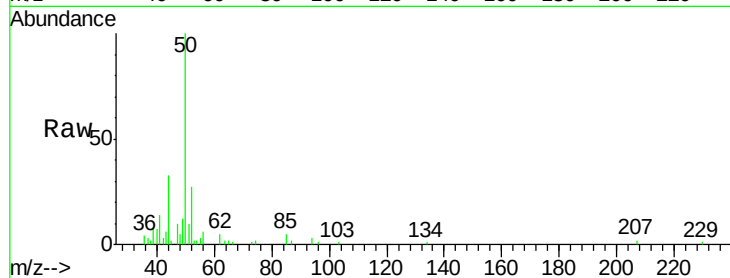
52 27.2 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 11.994 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061746.D

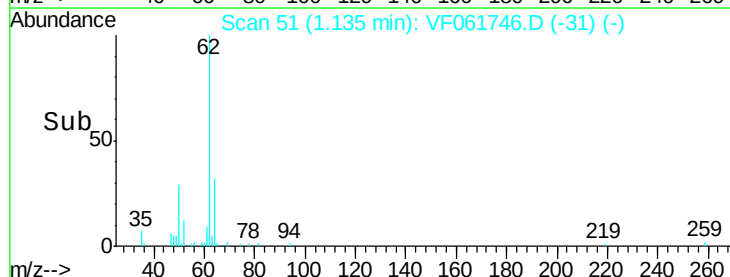
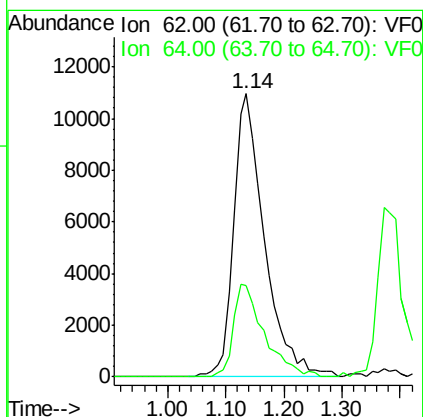
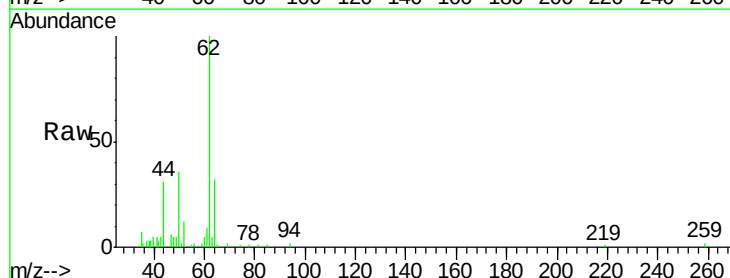
Acq: 26 Feb 2019 17:32

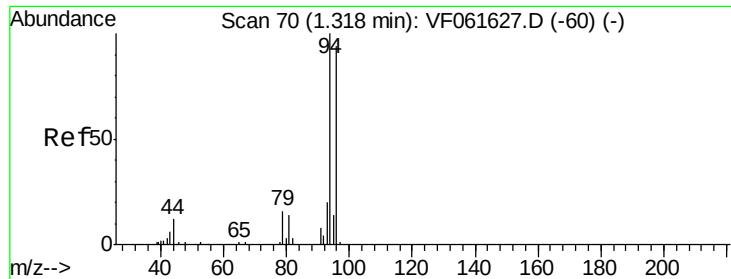
Tgt Ion: 62 Resp: 40362

Ion Ratio Lower Upper

62 100

64 32.2 27.5 41.3





#5

Bromomethane

Concen: 13.003 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

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ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 94 Resp: 30117

Ion Ratio Lower Upper

94 100

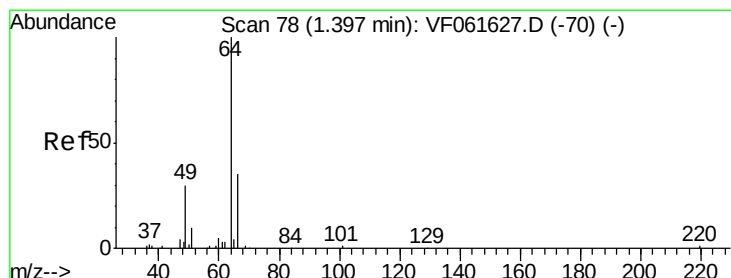
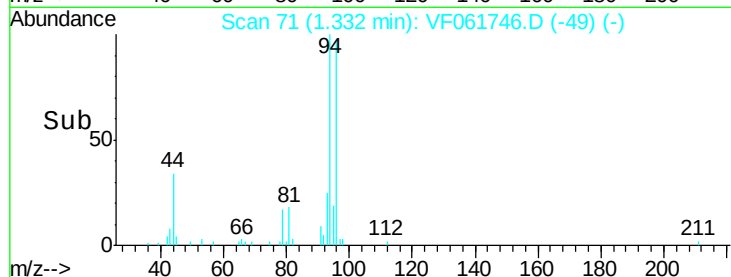
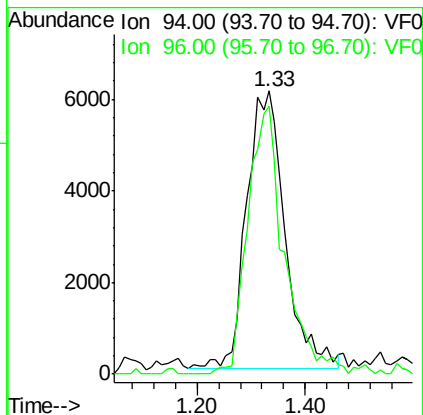
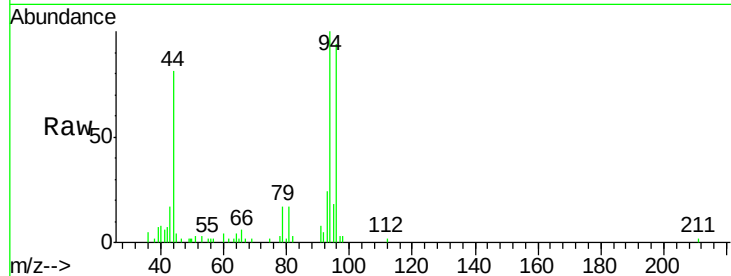
96 94.5 74.6 112.0

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#6

Chloroethane

Concen: 12.133 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.03 min

Lab File: VF061746.D

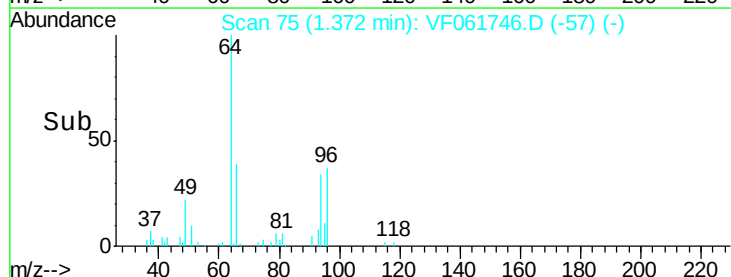
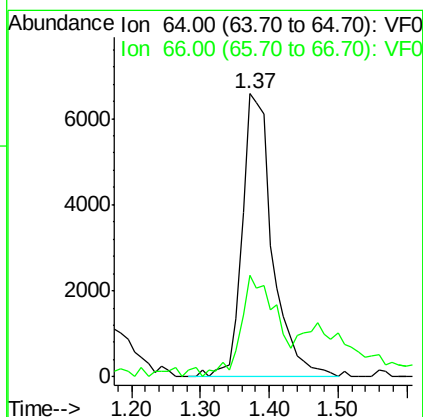
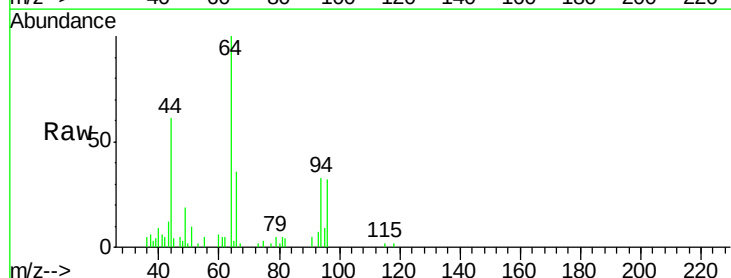
Acq: 26 Feb 2019 17:32

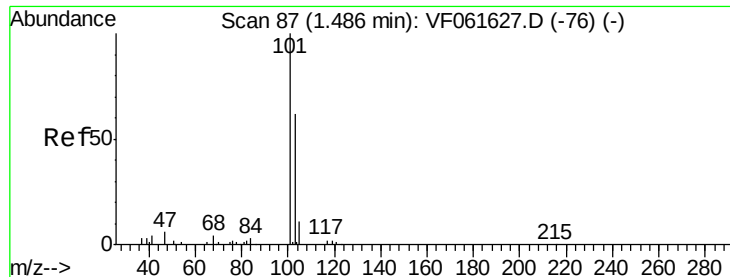
Tgt Ion: 64 Resp: 20121

Ion Ratio Lower Upper

64 100

66 35.8 27.9 41.9





#7

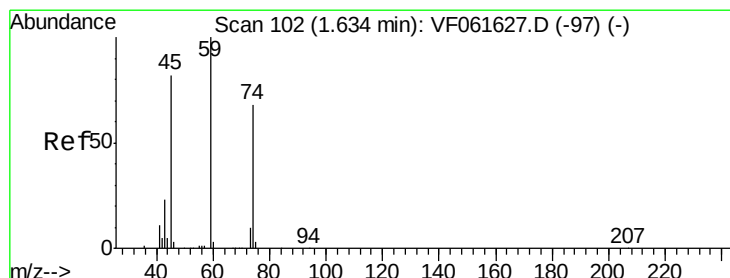
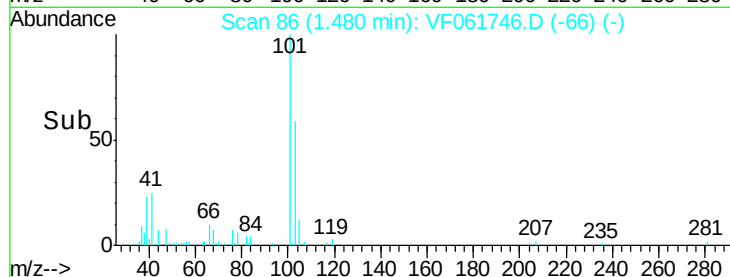
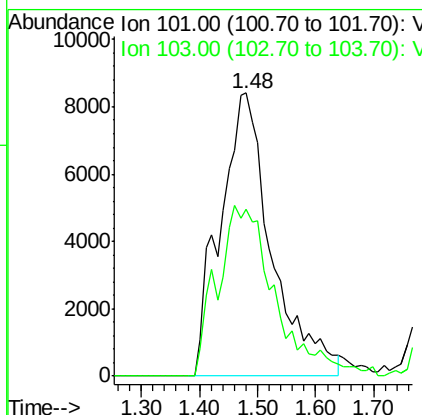
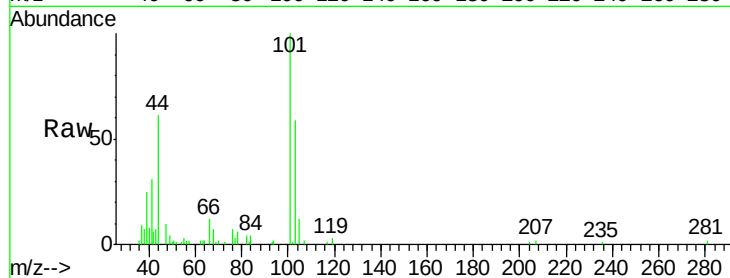
Trichlorofluoromethane
Concen: 12.777 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		51861		
103	59.0	49.3	73.9		

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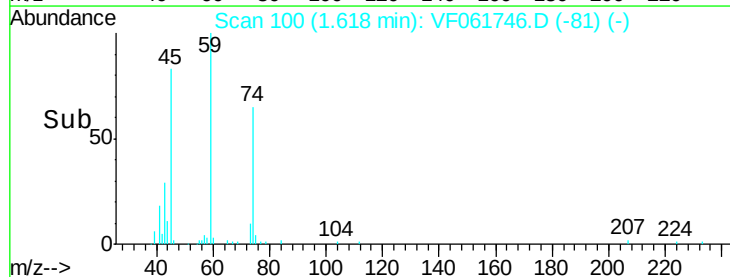
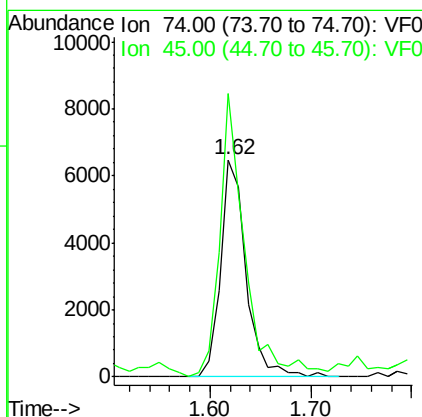
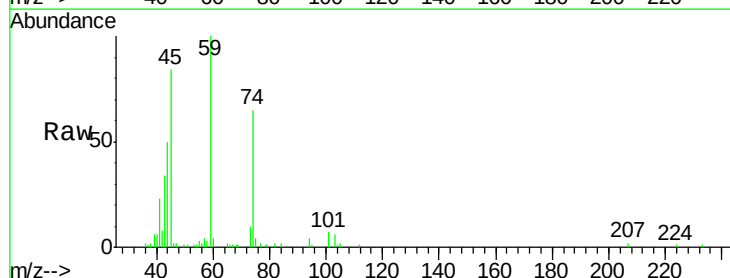
MMDadoda
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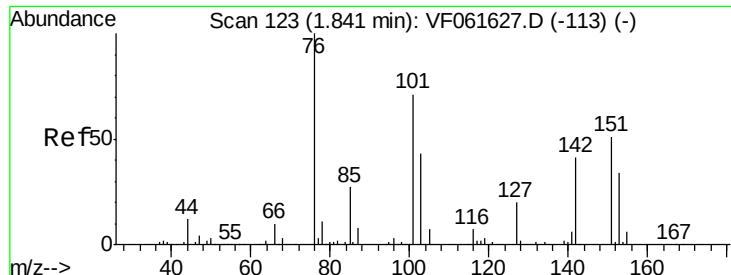


#8

Diethyl Ether
Concen: 11.156 ug/l
RT: 1.62 min Scan# 100
Delta R.T. -0.02 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		11411		
45	130.5	60.8	182.3		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.871 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

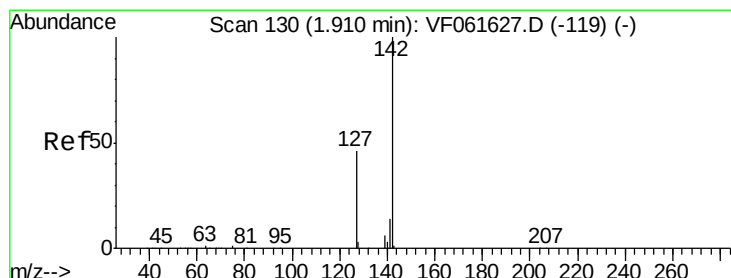
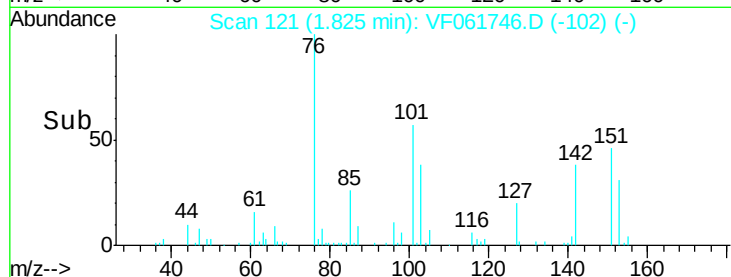
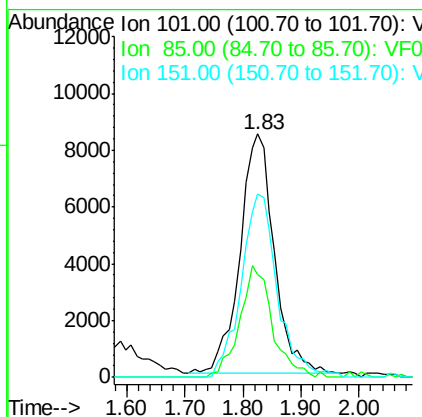
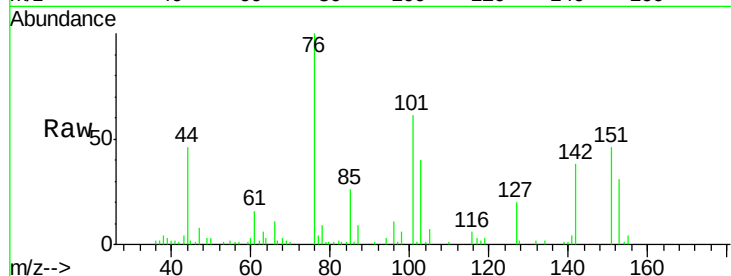
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	101	Resp:	34760
Ion Ratio	Lower	Upper	
101	100		
85	42.3	29.8	44.6
151	75.4	56.3	84.5

Manual Integrations
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MMDadoda
2/27/2019 3:19:38 PM



#10

Methyl Iodide

Concen: 12.037 ug/l m

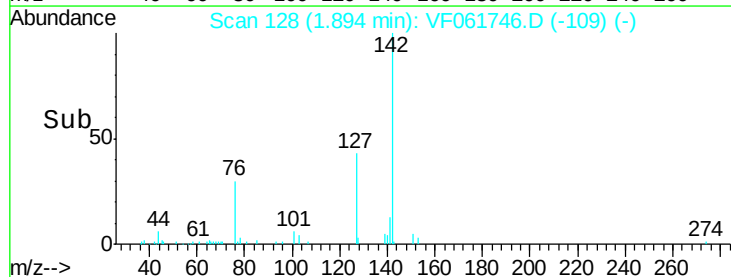
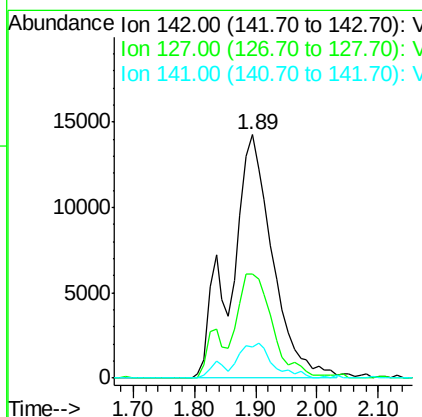
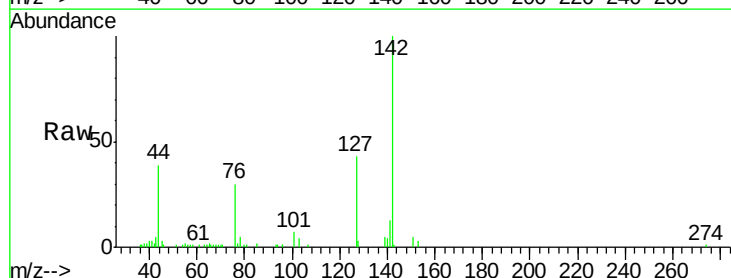
RT: 1.89 min Scan# 128

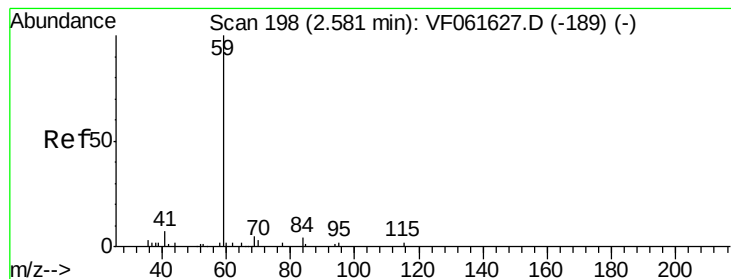
Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	142	Resp:	67328
Ion Ratio	Lower	Upper	
142	100		
127	42.8	36.6	55.0
141	13.0	11.0	16.6





#11

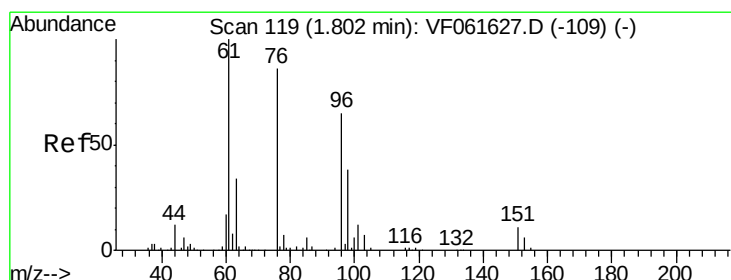
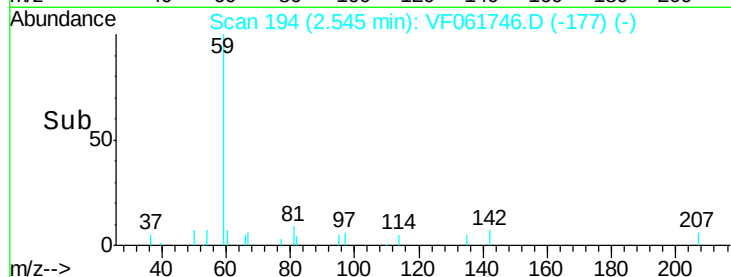
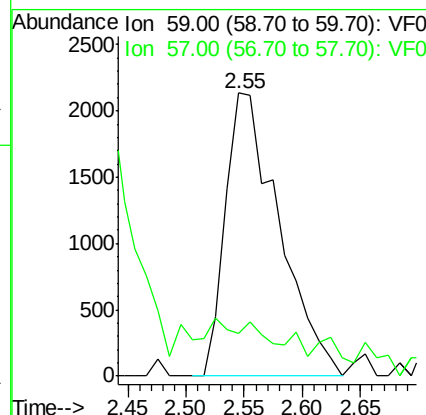
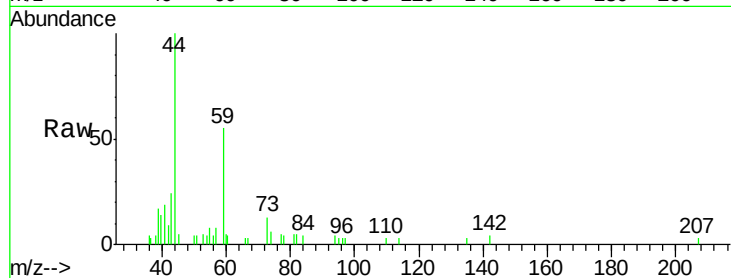
Tert butyl alcohol
Concen: 53.441 ug/l
RT: 2.55 min Scan# 194
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion: 59 Resp: 6814
Ion Ratio Lower Upper
59 100
57 15.1 12.5 18.7

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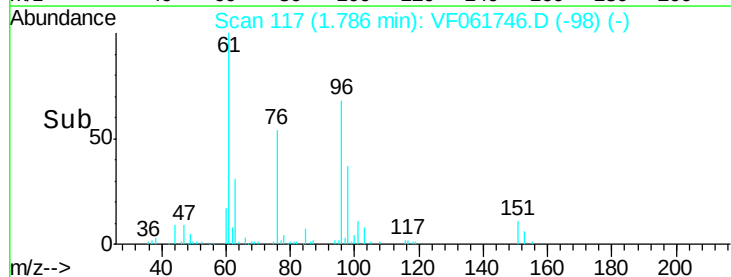
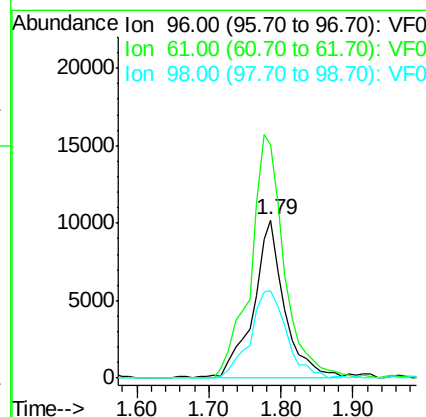
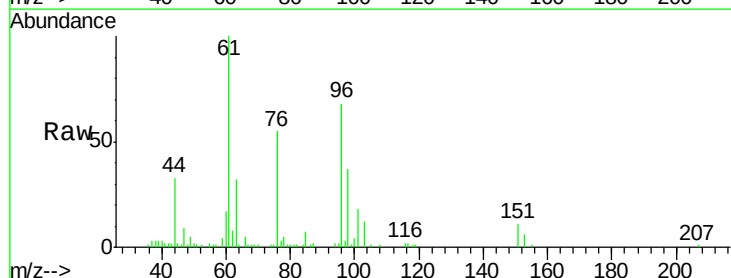
MMDadoda
2/27/2019 3:19:38 PM

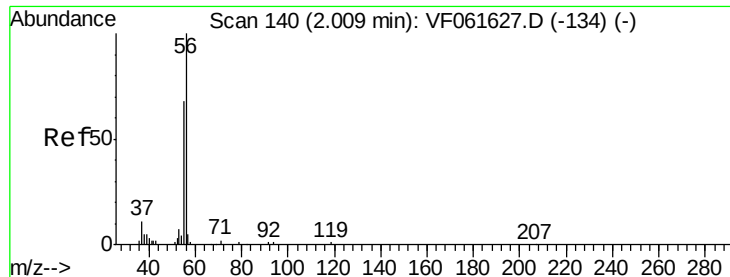


#12

1,1-Dichloroethene
Concen: 12.021 ug/l
RT: 1.79 min Scan# 117
Delta R.T. -0.02 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion: 96 Resp: 30948
Ion Ratio Lower Upper
96 100
61 147.0 122.6 184.0
98 54.9 47.2 70.8





#13

Acrolein

Concen: 42.995 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 56 Resp: 6890

Ion Ratio Lower Upper

56 100

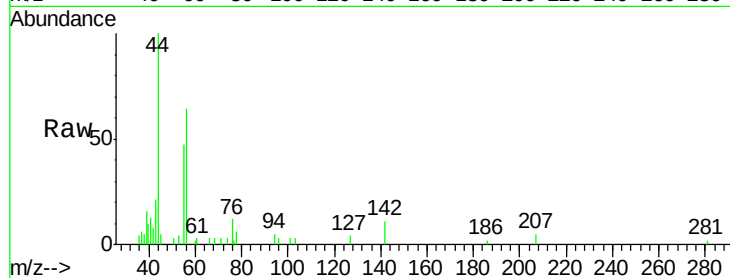
55 74.5 55.0 82.6

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

1.99

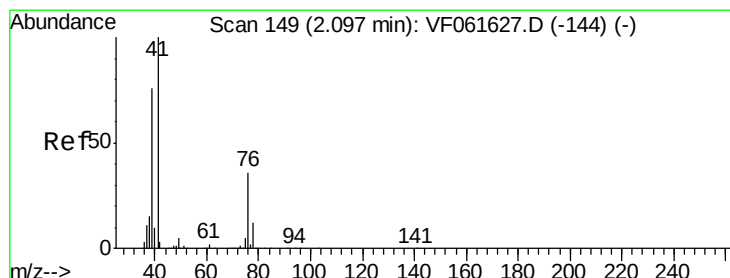
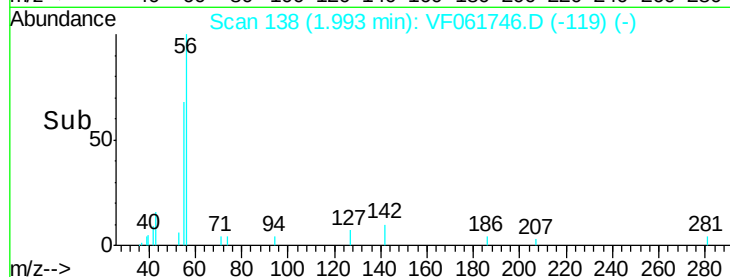
3000

2000

1000

0

Time-->



#14

Allyl chloride

Concen: 10.810 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

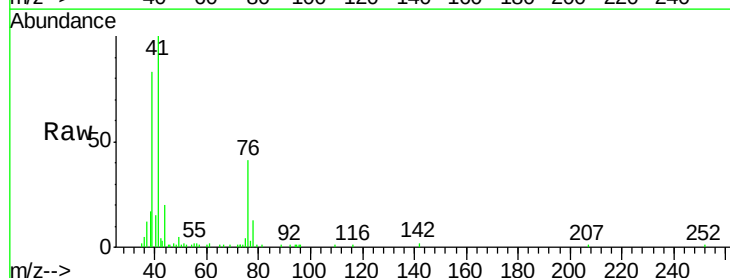
Tgt Ion: 41 Resp: 34150

Ion Ratio Lower Upper

41 100

39 82.6 61.6 92.4

76 40.5 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

25000

20000

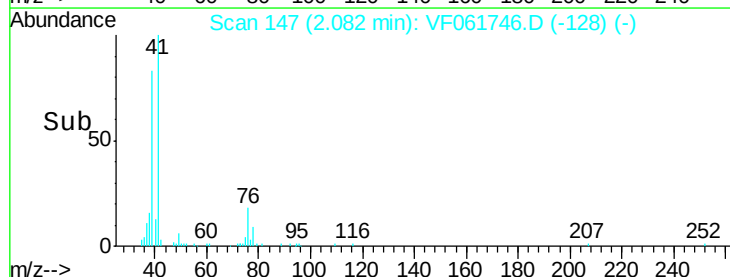
15000

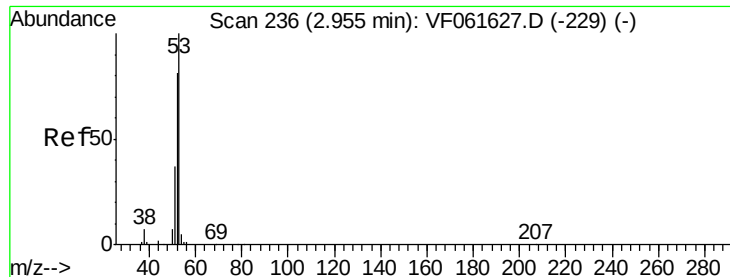
10000

5000

0

Time-->





#15

Acrylonitrile

Concen: 51.574 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

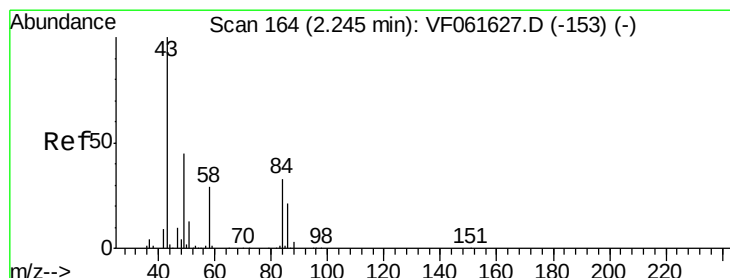
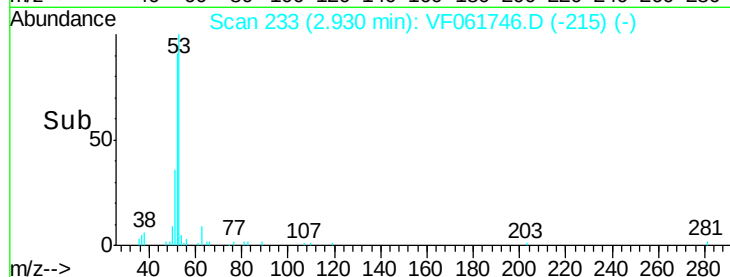
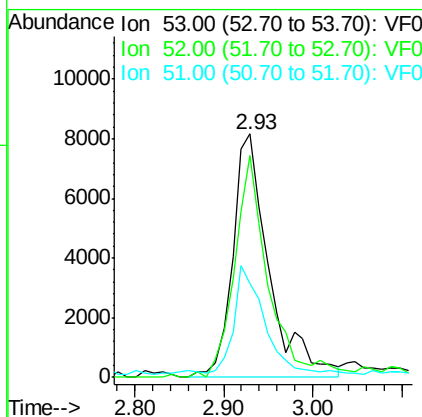
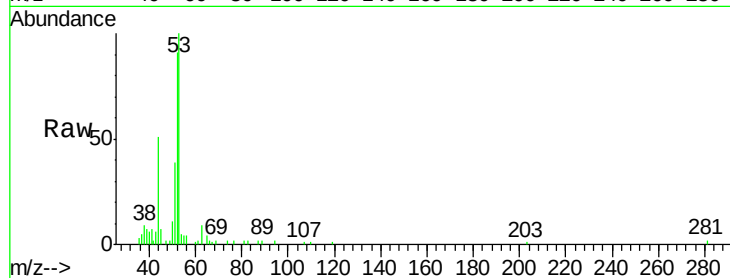
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	53	Resp:	23325
Ion	Ratio	Lower	Upper
53	100		
52	91.1	64.6	97.0
51	38.6	29.8	44.8

Manual Integrations
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MMDadoda
2/27/2019 3:19:38 PM



#16

Acetone

Concen: 62.850 ug/l

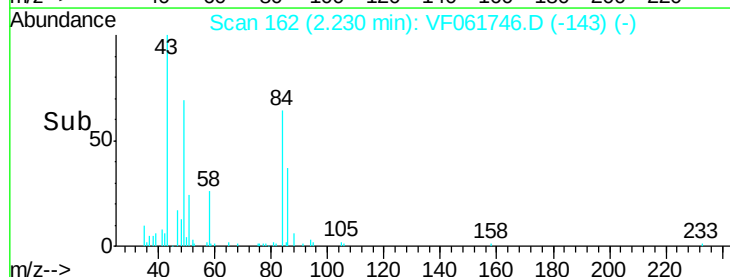
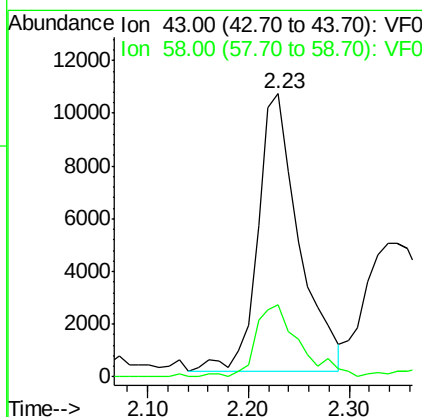
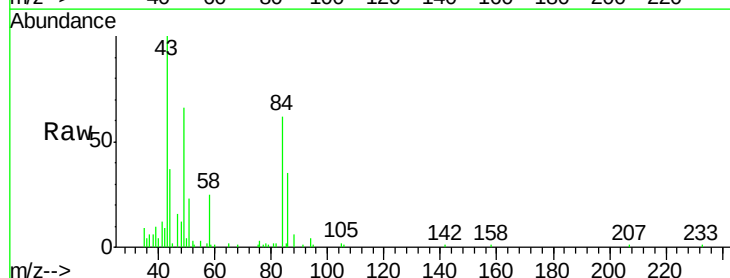
RT: 2.23 min Scan# 162

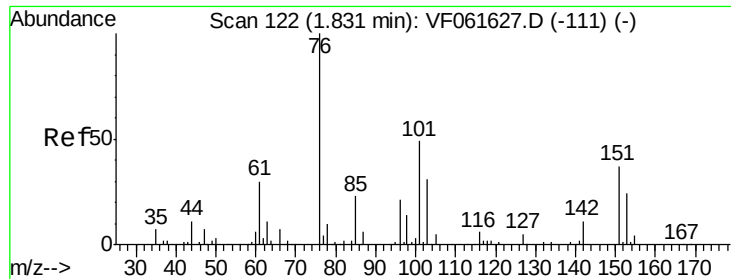
Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	43	Resp:	29709
Ion	Ratio	Lower	Upper
43	100		
58	25.3	22.9	34.3





#17

Carbon Disulfide

Concen: 11.278 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 76 Resp: 91267

Ion Ratio Lower Upper

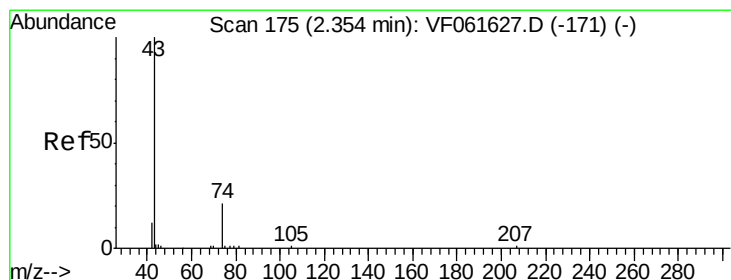
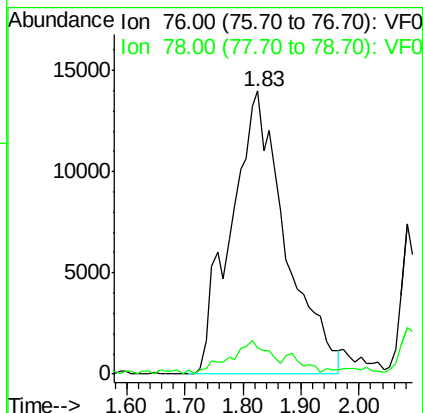
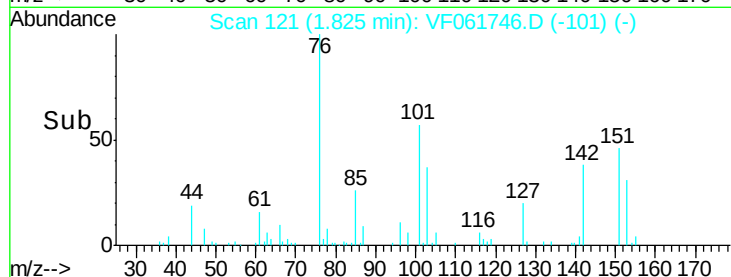
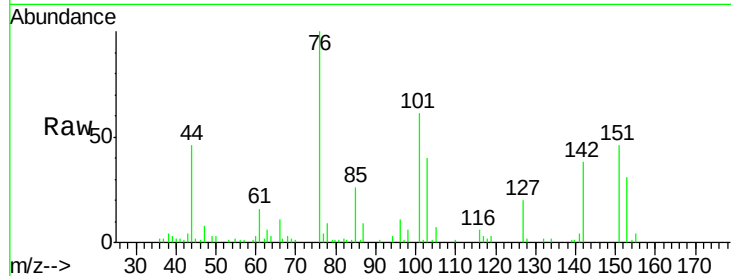
76 100

78 9.2 7.9 11.9

Manual Integrations
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#18

Methyl Acetate

Concen: 20.175 ug/l m

RT: 2.34 min Scan# 173

Delta R.T. -0.02 min

Lab File: VF061746.D

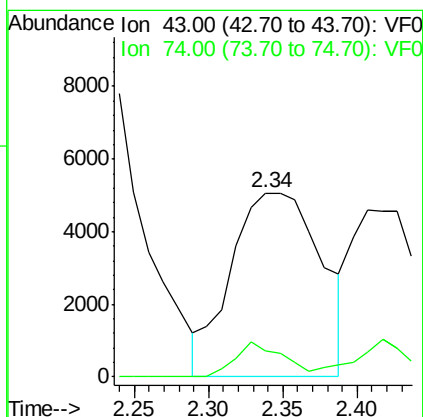
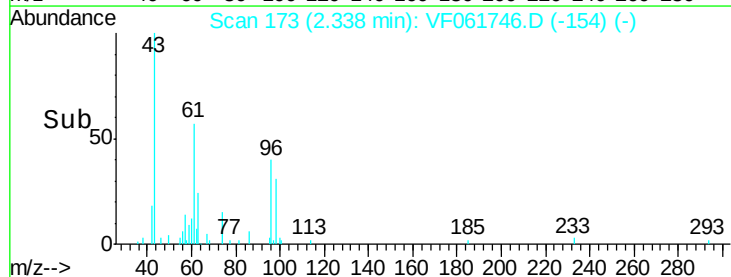
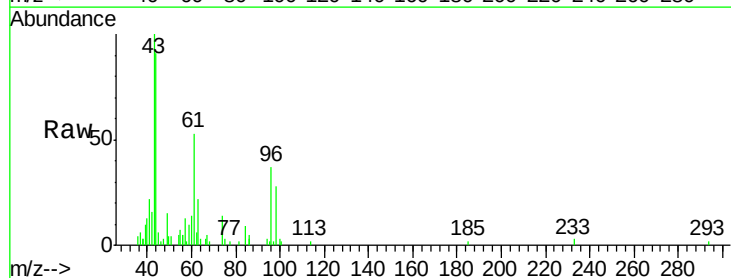
Acq: 26 Feb 2019 17:32

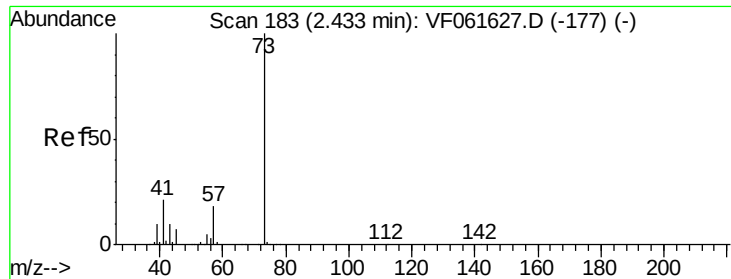
Tgt Ion: 43 Resp: 21484

Ion Ratio Lower Upper

43 100

74 14.3 14.6 21.8#





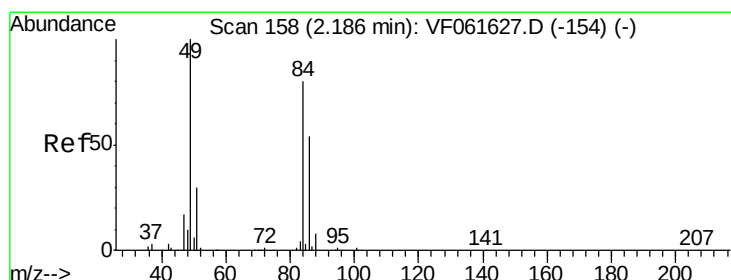
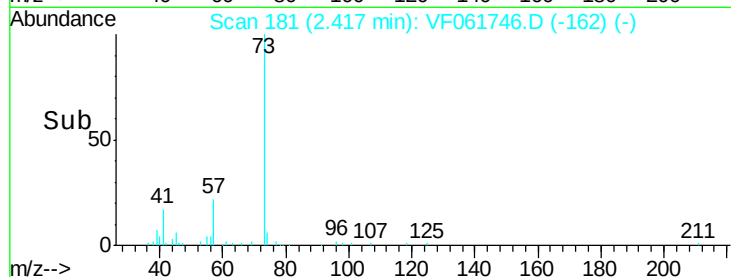
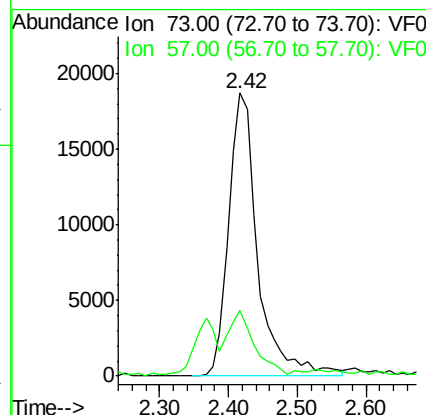
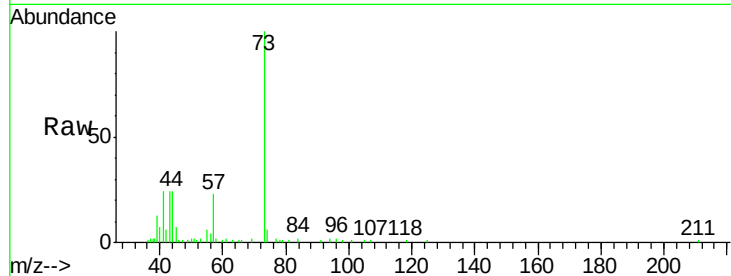
#19
Methyl tert-butyl Ether
Concen: 12.439 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.1	15.8	23.8

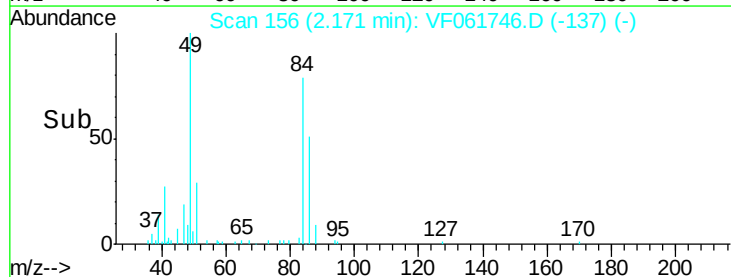
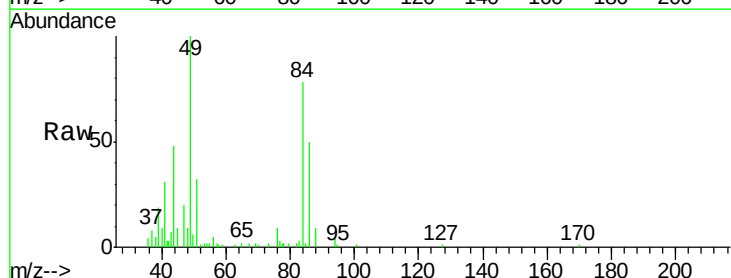
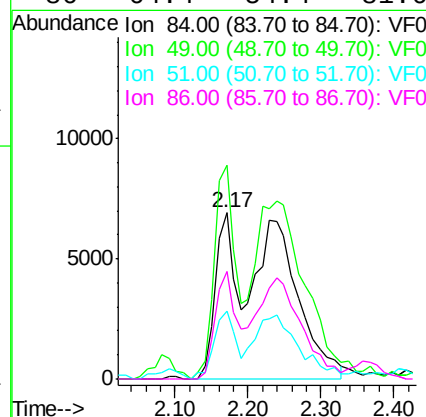
Manual Integrations
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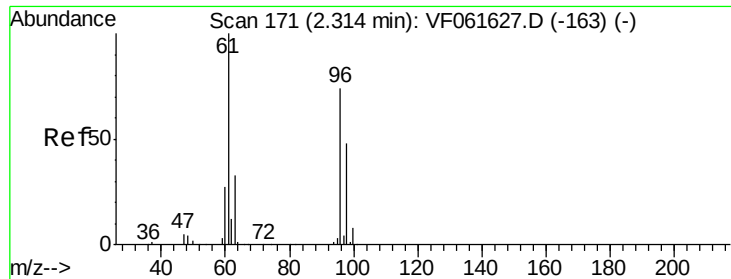
MMDadoda
2/27/2019 3:19:38 PM



#20
Methylene Chloride
Concen: 14.377 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
84	100		
49	128.4	101.8	152.8
51	41.1	31.1	46.7
86	64.4	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 11.856 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

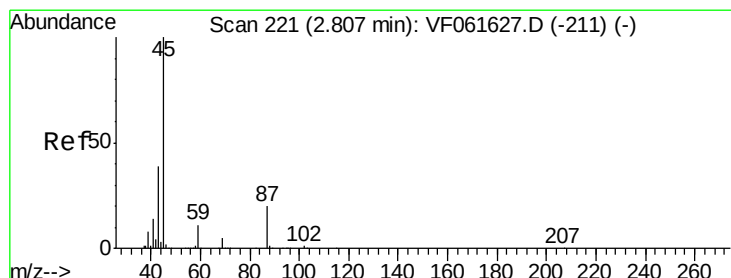
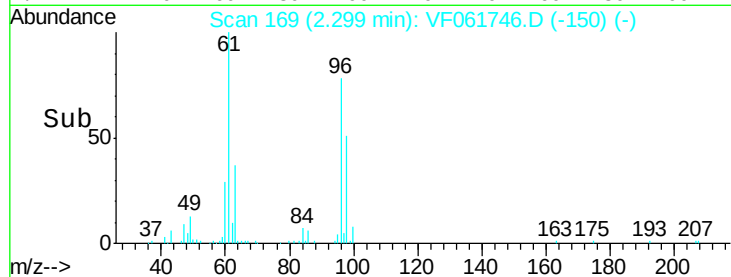
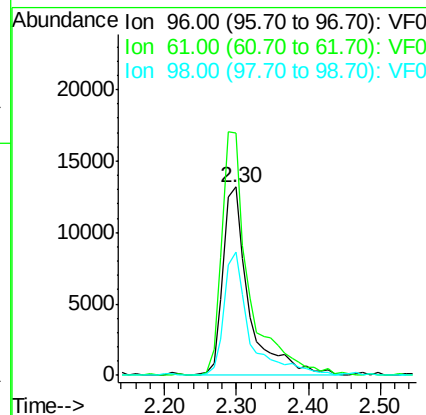
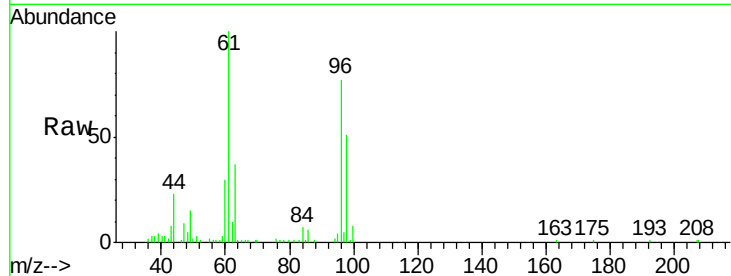
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	96	Resp:	33180
Ion	Ratio	Lower	Upper
96	100		
61	129.1	108.2	162.4
98	65.7	52.2	78.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 11.450 ug/l

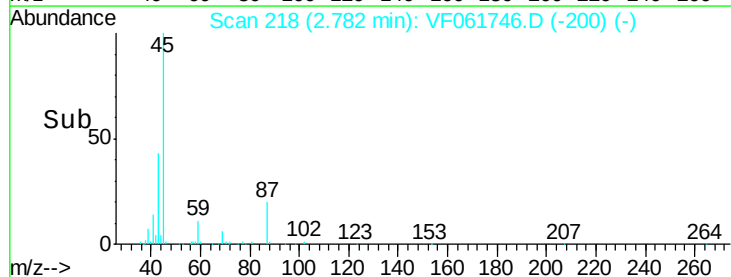
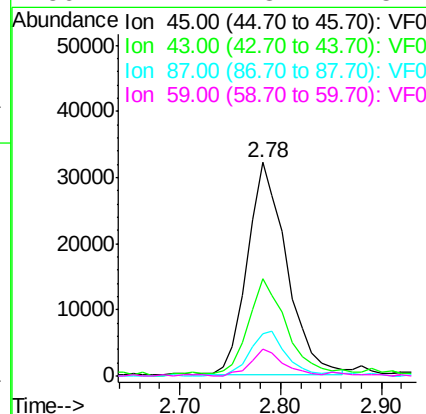
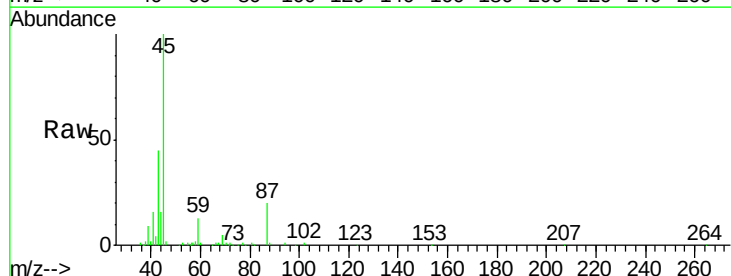
RT: 2.78 min Scan# 218

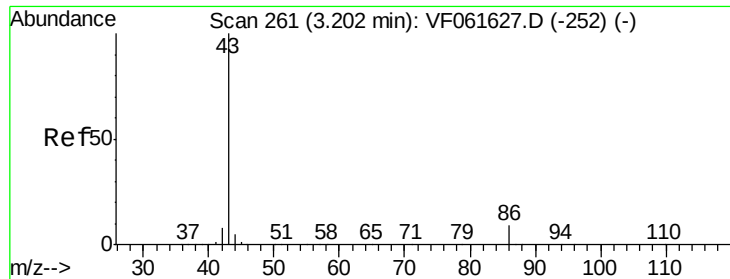
Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	45	Resp:	86825
Ion	Ratio	Lower	Upper
45	100		
43	45.3	31.4	47.2
87	19.6	16.3	24.5
59	12.7	8.7	13.1





#23

Vinyl Acetate

Concen: 53.383 ug/l

RT: 3.17 min Scan# 257

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 197723

Ion Ratio Lower Upper

43 100

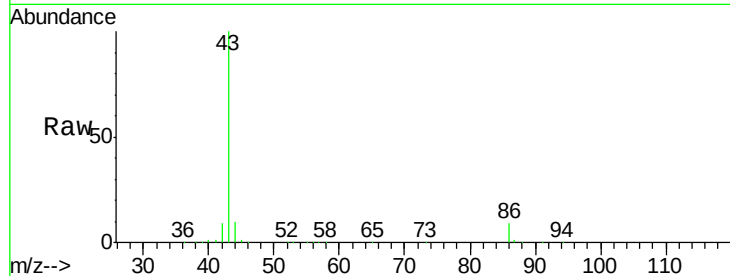
86 8.6 7.5 11.3

Manual Integrations

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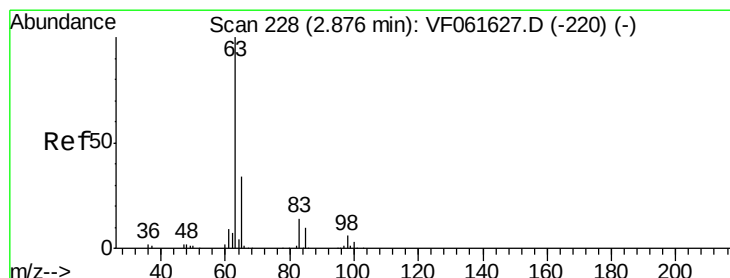
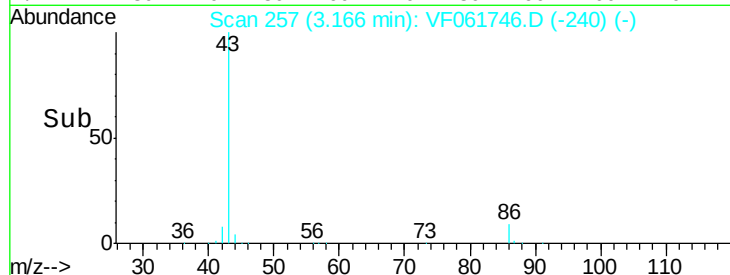
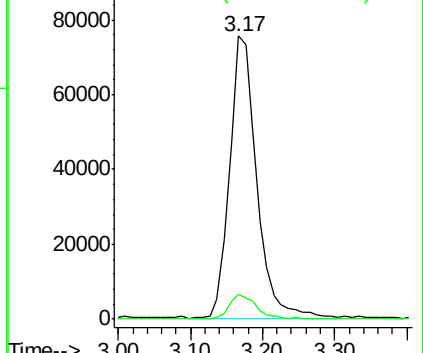
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 11.701 ug/l

RT: 2.85 min Scan# 225

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

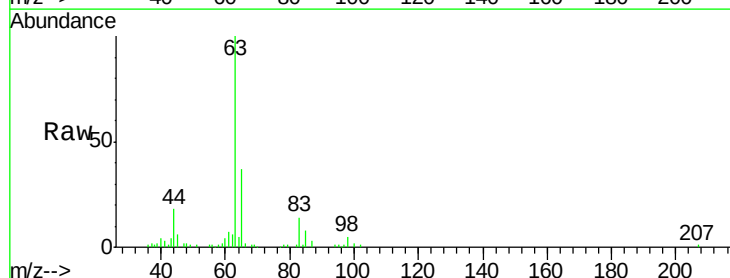
Tgt Ion: 63 Resp: 53695

Ion Ratio Lower Upper

63 100

98 5.2 2.8 8.3

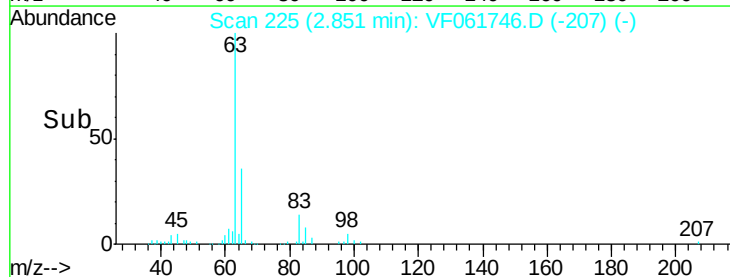
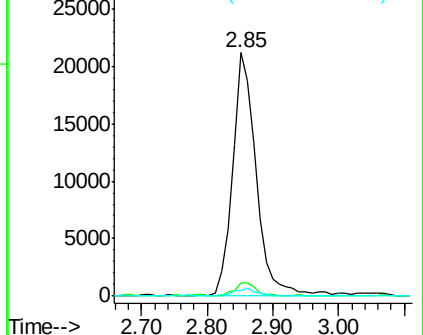
100 2.0 1.8 5.4

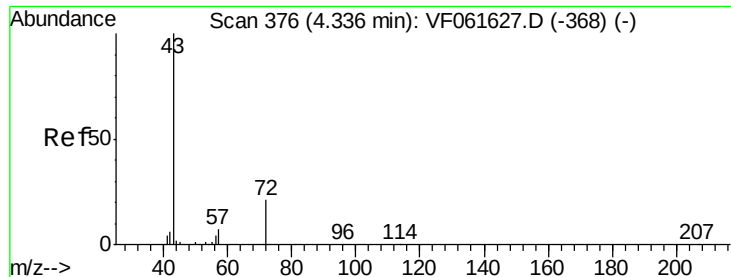


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 57.815 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 59695

Ion Ratio Lower Upper

43 100

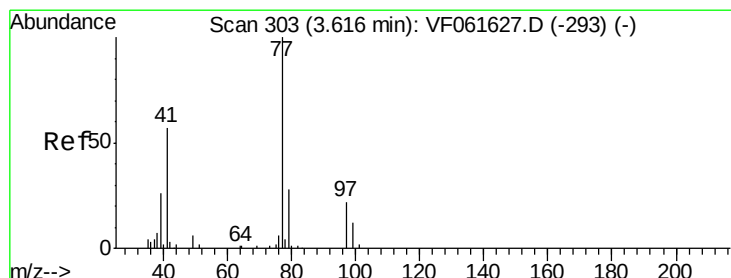
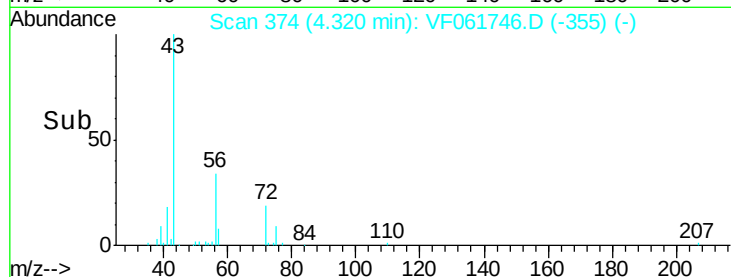
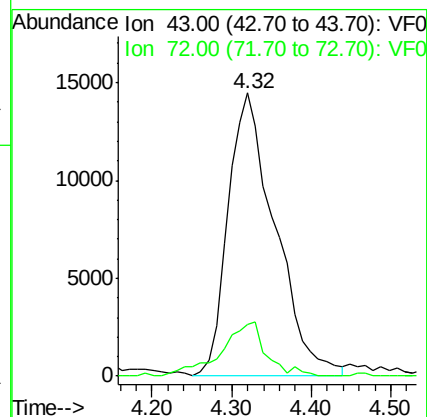
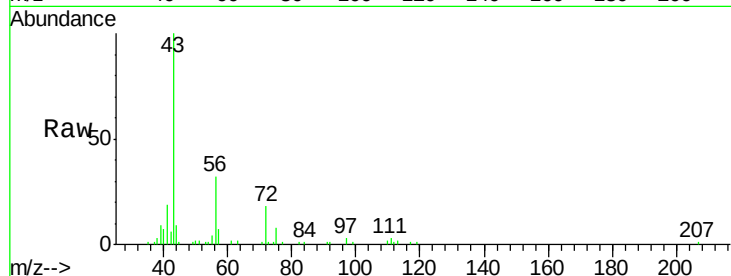
72 18.2 17.1 25.7

Manual Integrations

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MMDadoda

2/27/2019 3:19:38 PM



#26

2,2-Dichloropropane

Concen: 12.811 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.05 min

Lab File: VF061746.D

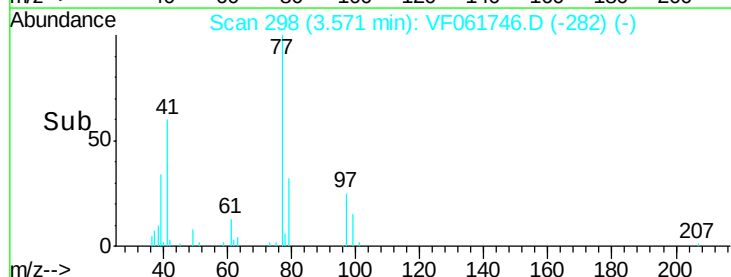
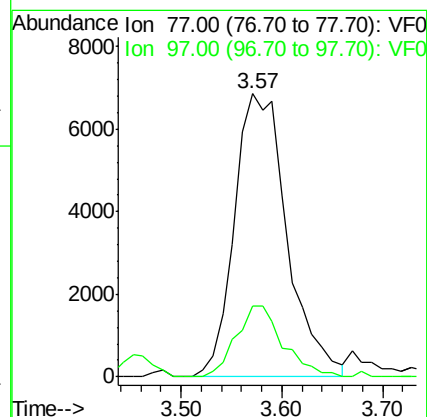
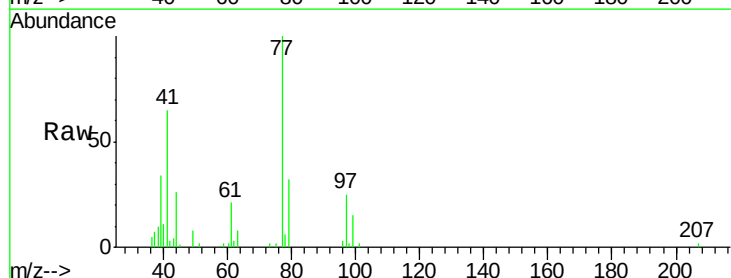
Acq: 26 Feb 2019 17:32

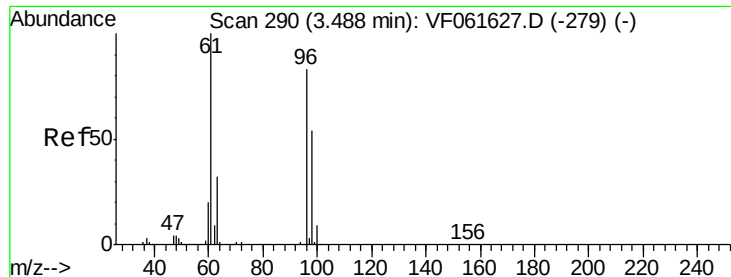
Tgt Ion: 77 Resp: 24903

Ion Ratio Lower Upper

77 100

97 25.0 11.7 35.0





#27

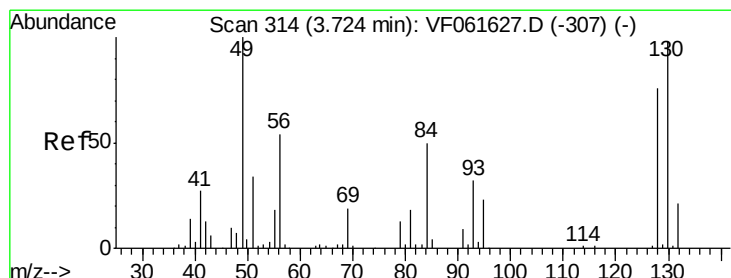
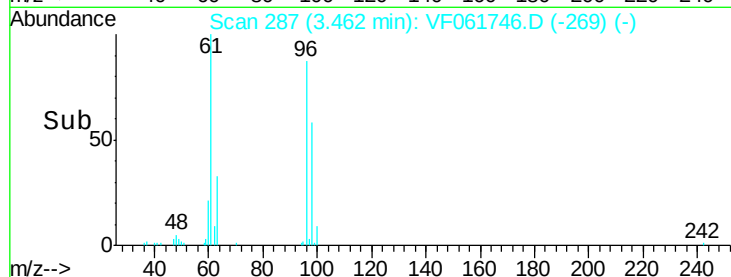
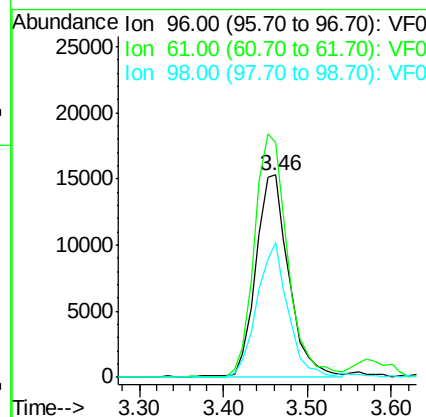
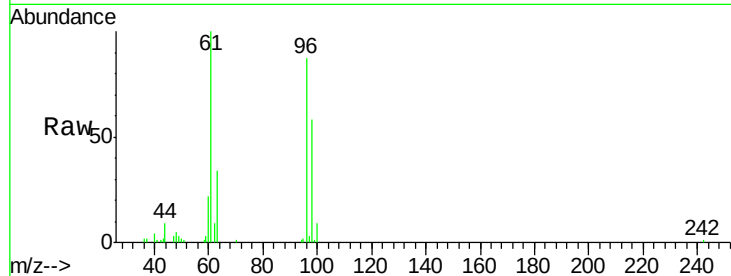
cis-1,2-Dichloroethene
Concen: 11.554 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	115.6	0.0	241.6
98	66.6	0.0	130.2

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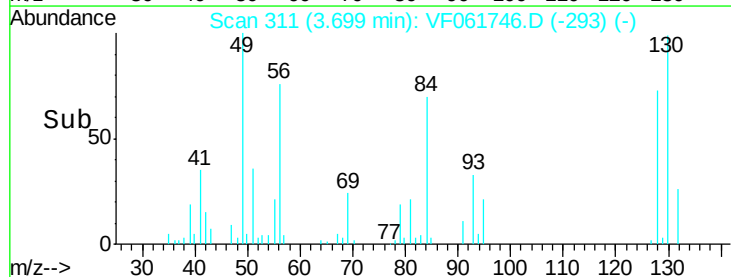
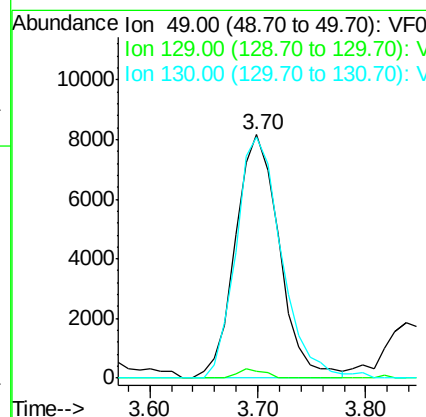
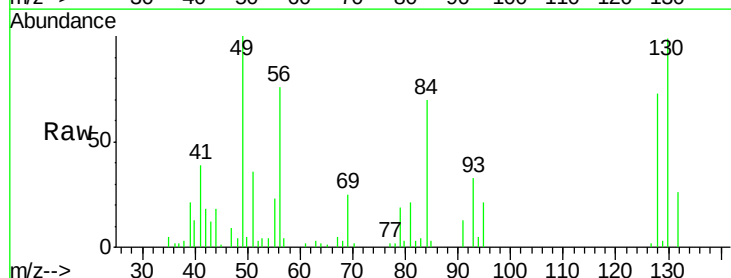
MMDadoda
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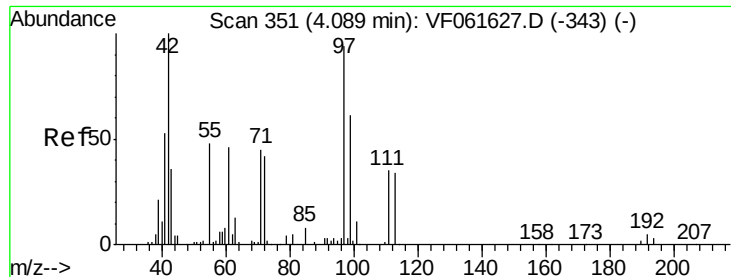


#28

Bromochloromethane
Concen: 10.521 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	3.4
130	98.8	77.7	116.5





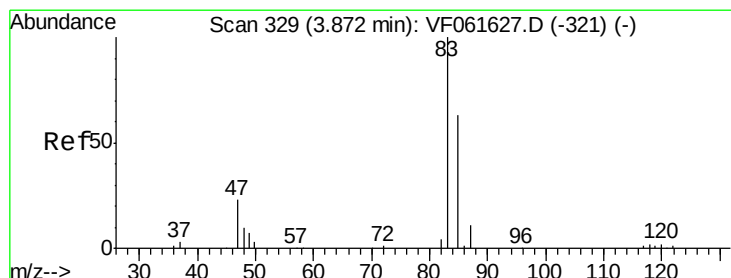
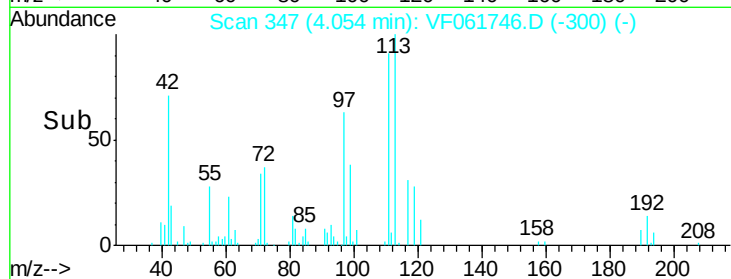
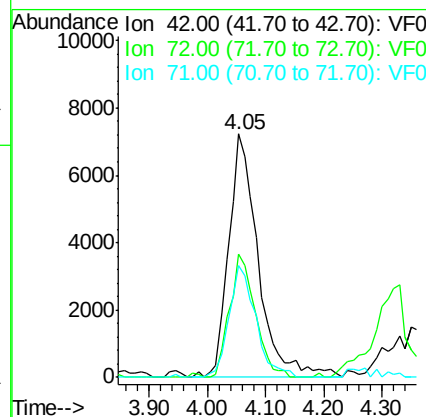
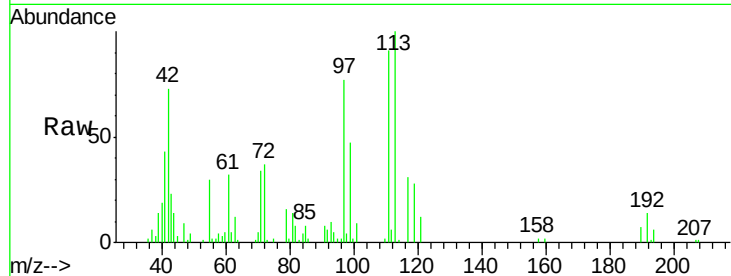
#29
Tetrahydrofuran
Concen: 54.357 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.2	52.8
71	41.5	32.9	49.3

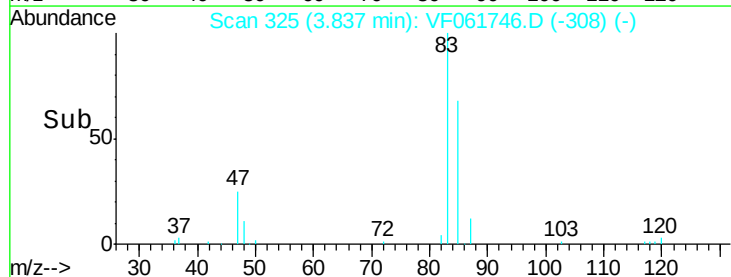
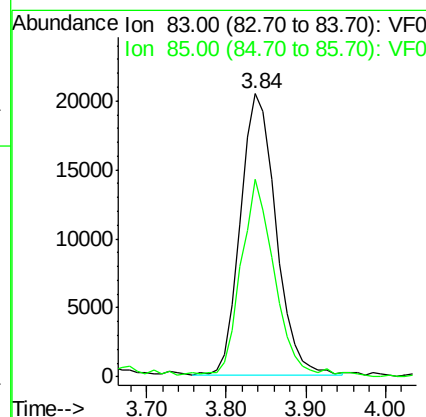
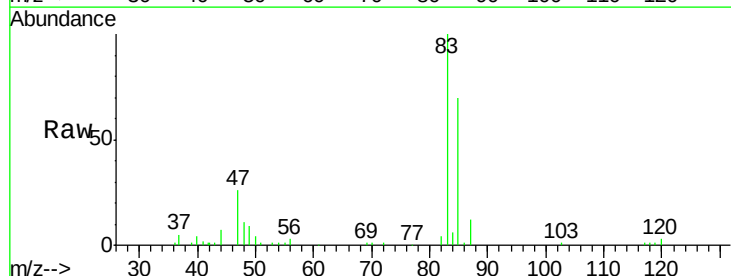
Manual Integrations
APPROVED

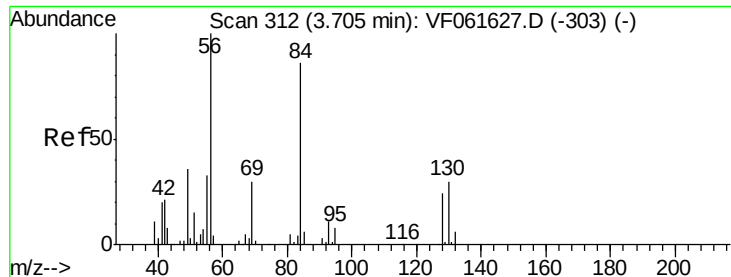
MMDadoda
2/27/2019 3:19:38 PM



#30
Chloroform
Concen: 12.078 ug/l
RT: 3.84 min Scan# 325
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.7	51.1	76.7





#31

Cyclohexane

Concen: 11.794 ug/l

RT: 3.67 min Scan# 308

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

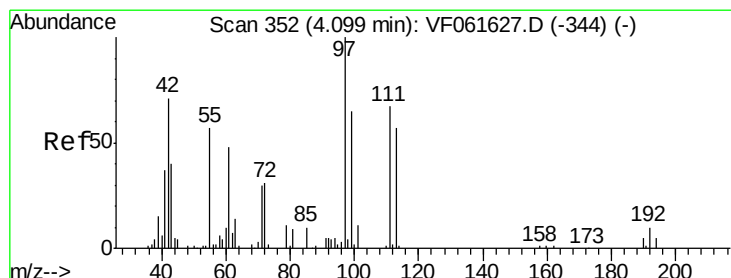
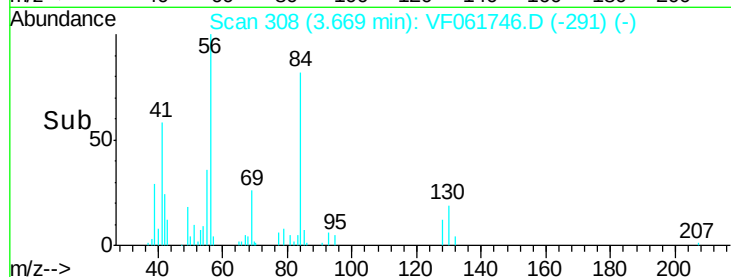
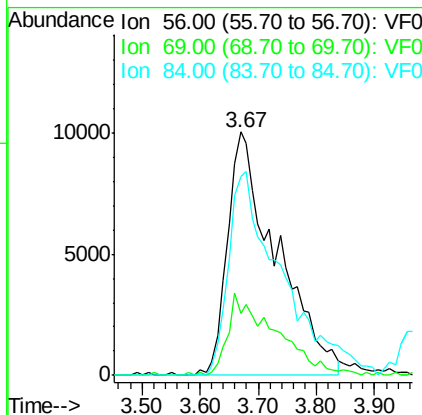
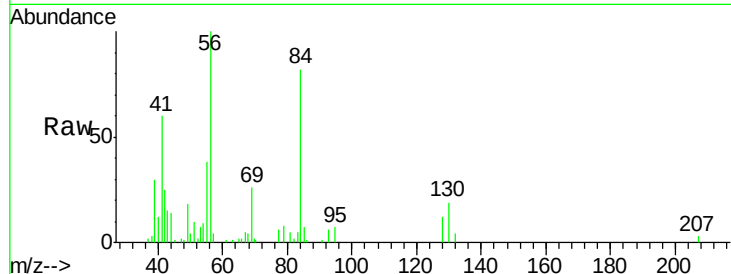
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	56	Resp:	58590
Ion	Ratio	Lower	Upper
56	100		
69	25.5	23.8	35.8
84	81.8	68.6	103.0

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 12.846 ug/l

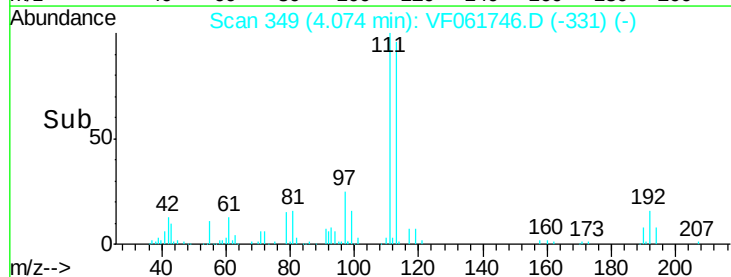
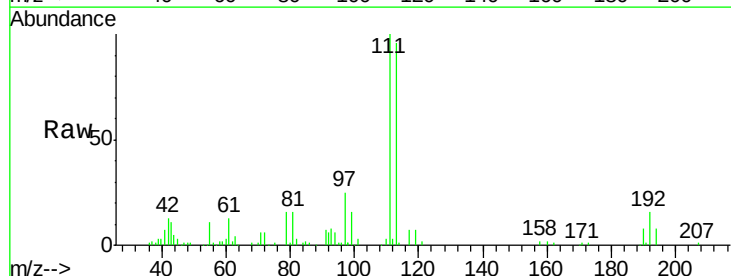
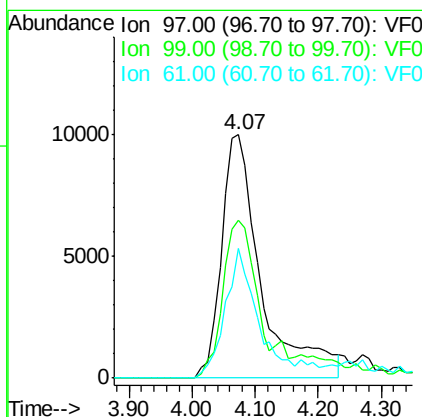
RT: 4.07 min Scan# 349

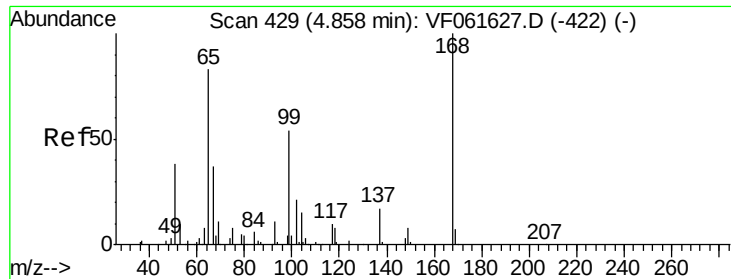
Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	97	Resp:	43917
Ion	Ratio	Lower	Upper
97	100		
99	64.7	52.2	78.2
61	53.4	39.2	58.8





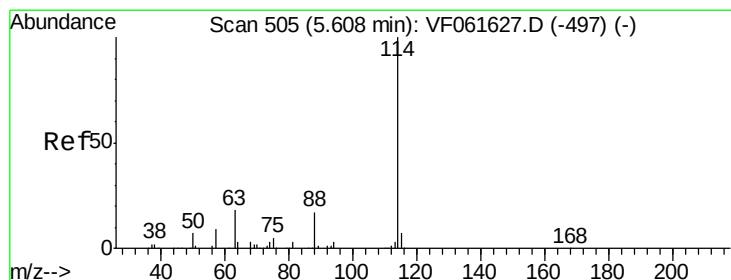
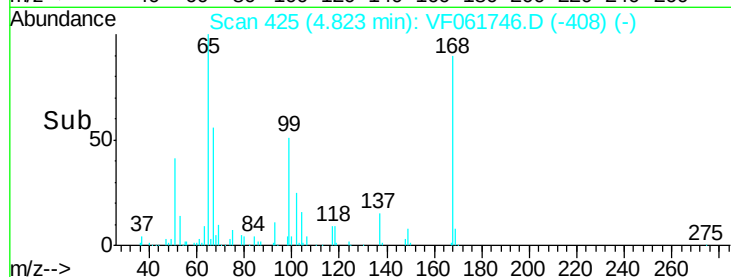
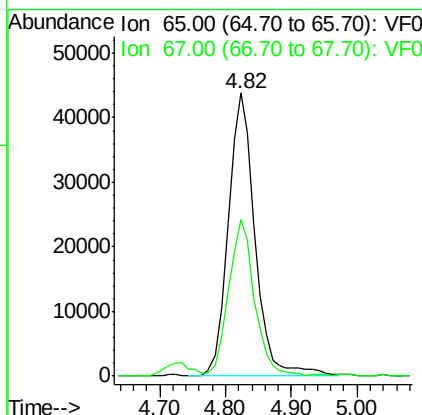
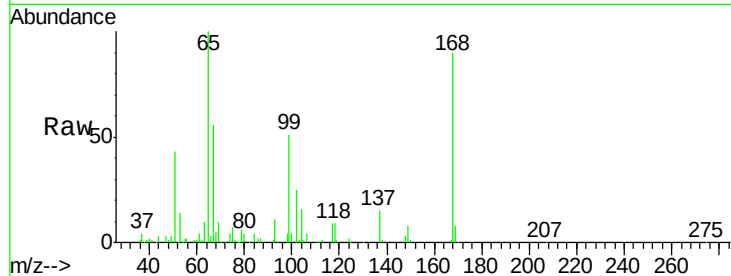
#33
 1,2-Dichloroethane-d4
 Concen: 55.923 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.04 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	123207		
67	55.5	0.0	104.0	

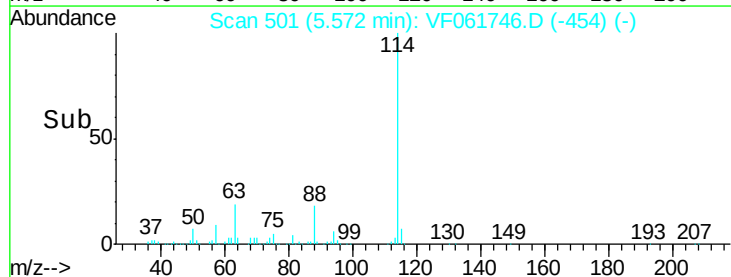
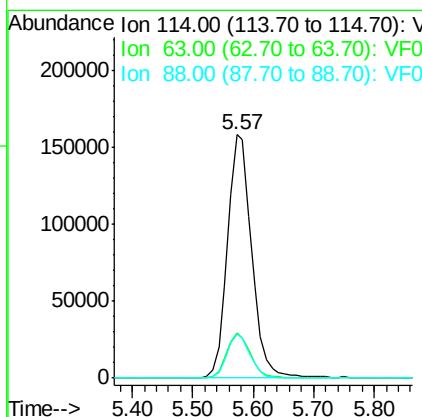
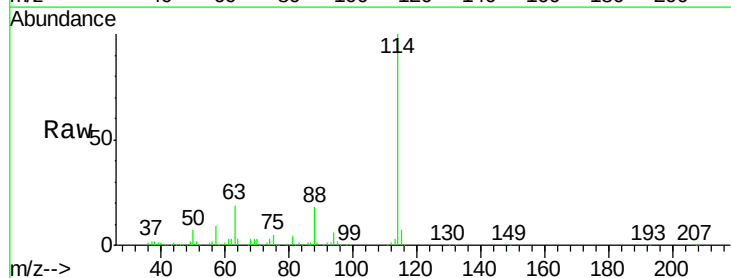
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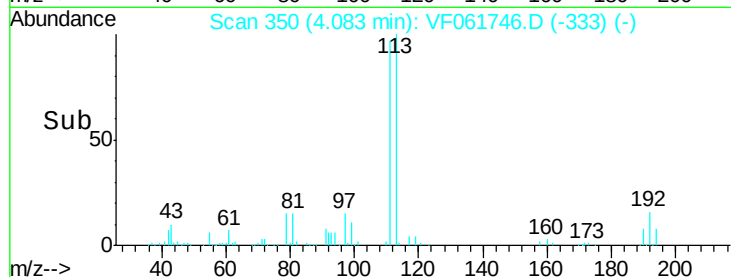
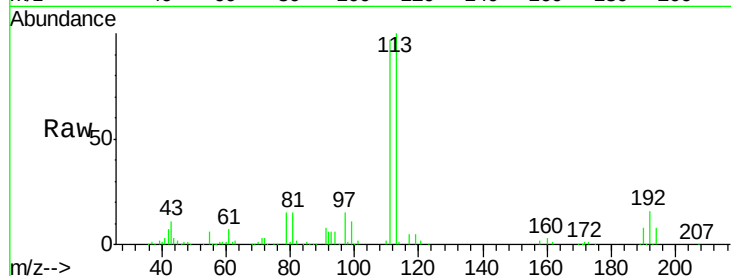
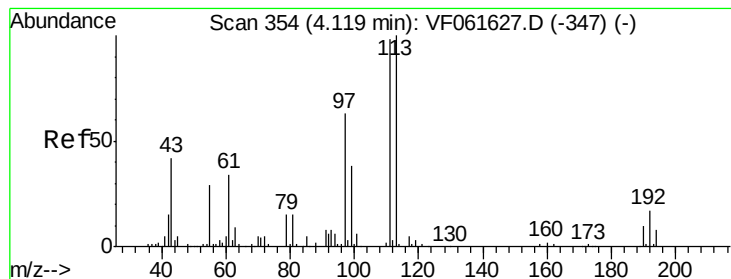
MMDadoda
 2/27/2019 3:19:38 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.04 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	439272		
63	18.7	0.0	36.6	
88	18.2	0.0	34.4	





#35

Dibromofluoromethane

Concen: 56.670 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.04 min

Lab File: VF061746.D

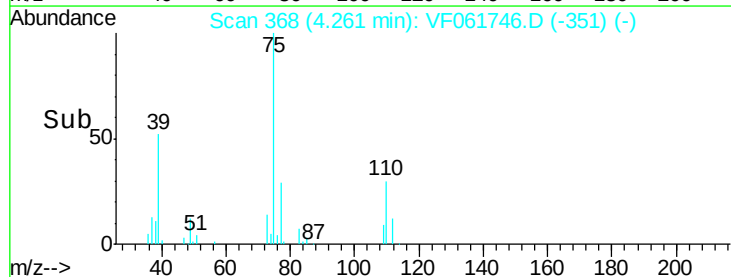
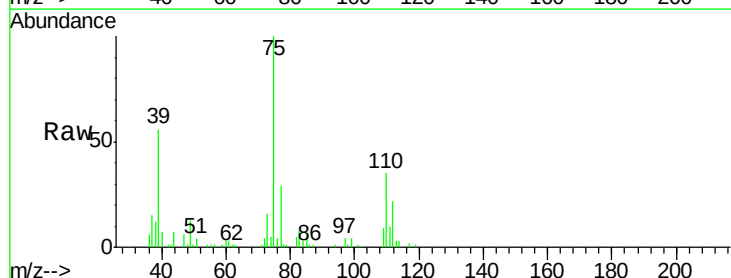
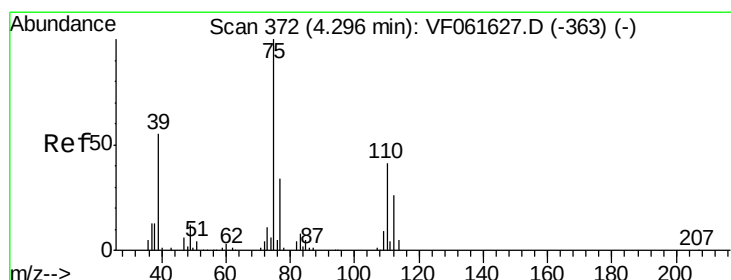
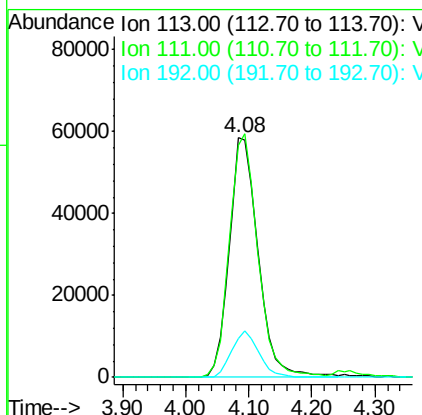
Acq: 26 Feb 2019 17:32

Tot Ion:	113	Resp:	184862
Ion Ratio	Lower	Upper	
113	100		
111	96.7	78.8	118.2
192	16.7	13.4	20.0

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

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#36

1,1-Dichloropropene

Concen: 11.726 ug/l

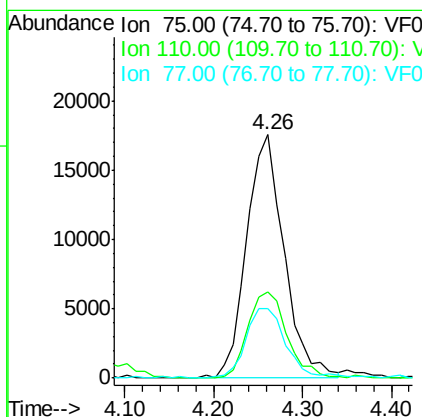
RT: 4.26 min Scan# 368

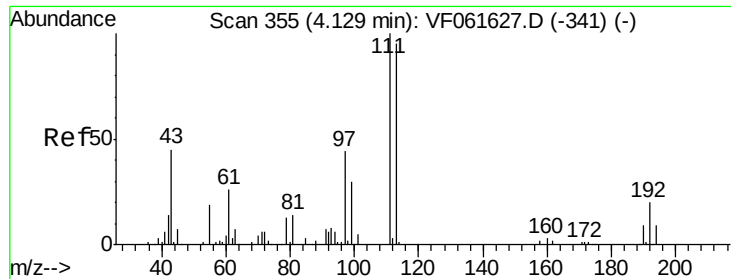
Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	75	Resp:	51028
Ion Ratio	Lower	Upper	
75	100		
110	35.2	20.5	61.6
77	28.7	27.0	40.4





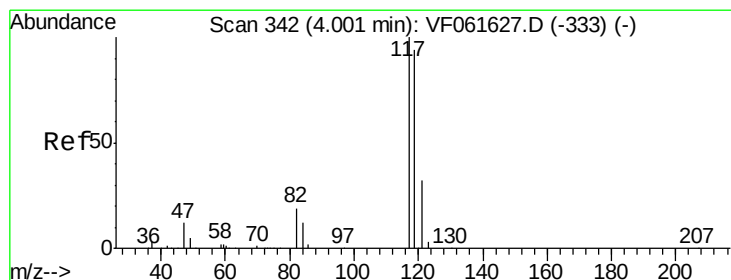
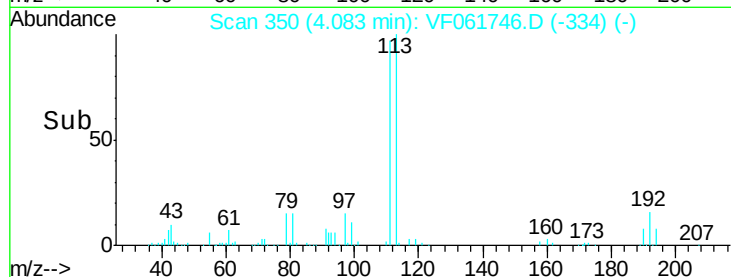
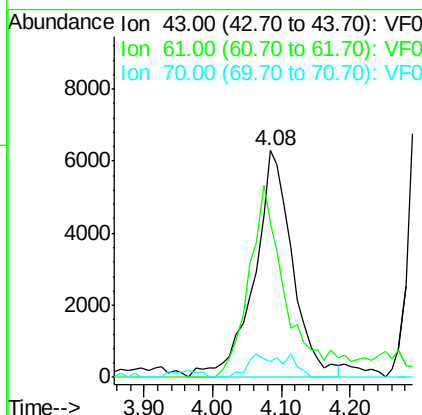
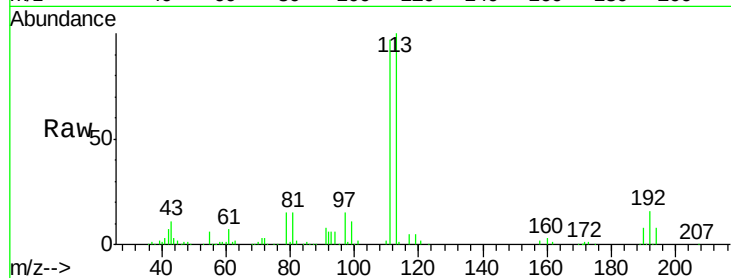
#37
Ethyl Acetate
Concen: 11.993 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.05 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	68.0	45.7	68.5
70	7.1	8.5	12.7#

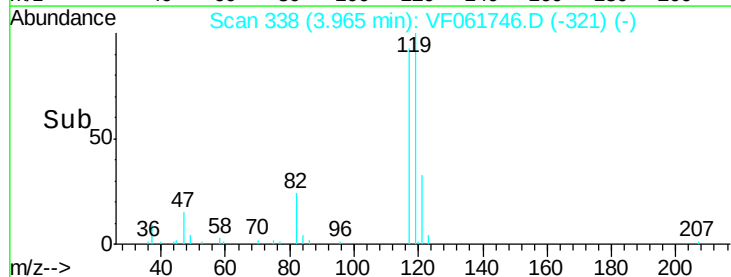
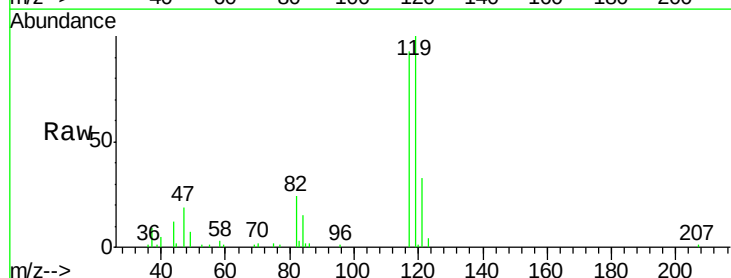
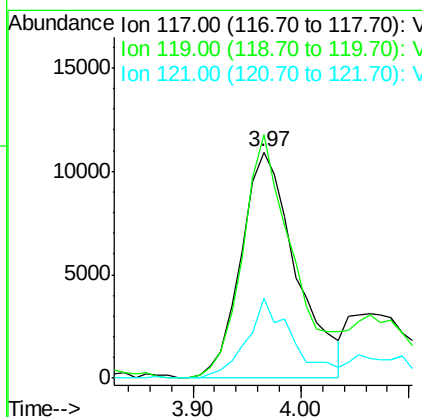
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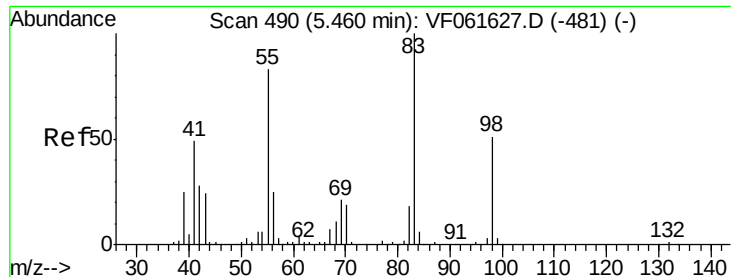
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#38
Carbon Tetrachloride
Concen: 12.839 ug/l
RT: 3.97 min Scan# 338
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	107.9	75.6	113.4
121	35.4	25.2	37.8





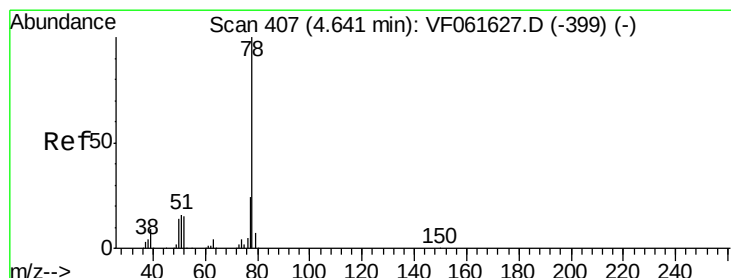
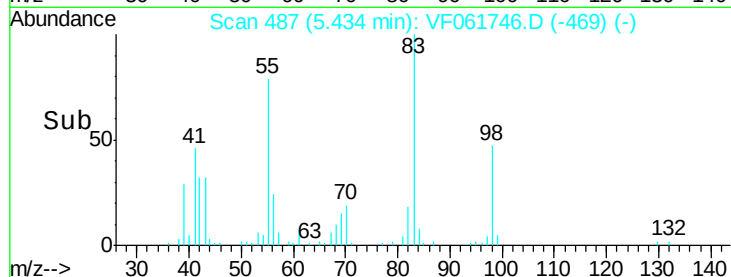
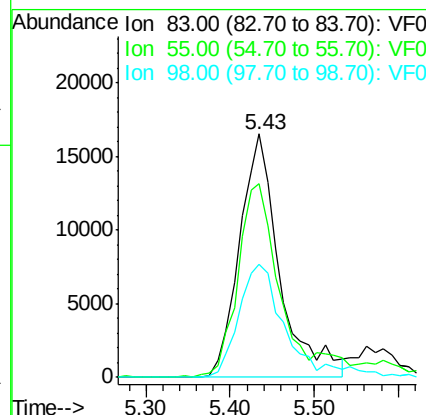
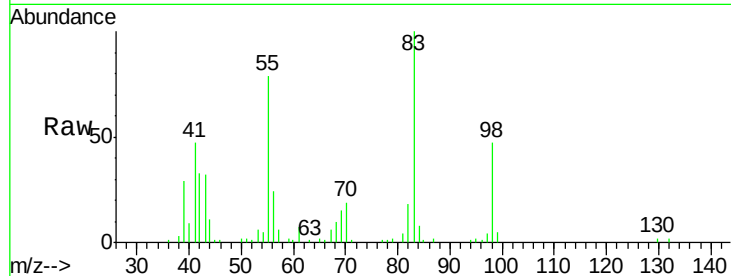
#39
Methylvlcyclohexane
Concen: 10.687 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	83	Resp	55000
Ion Ratio	Lower	Upper	
83	100		
55	79.3	66.6	99.8
98	46.7	40.4	60.6

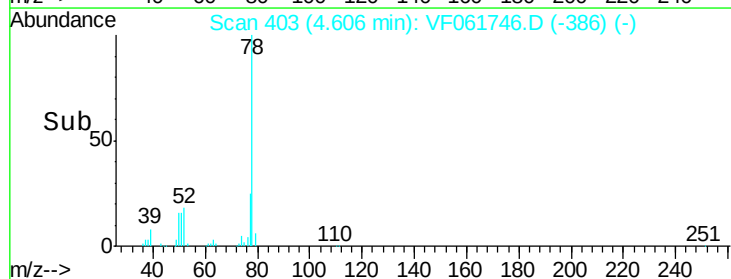
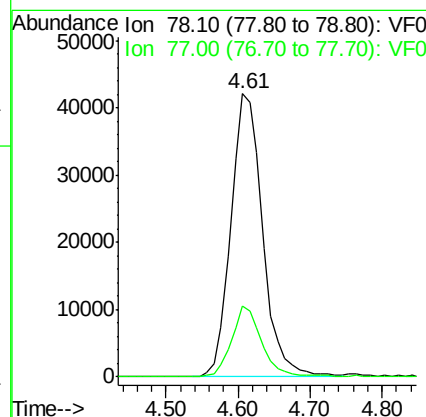
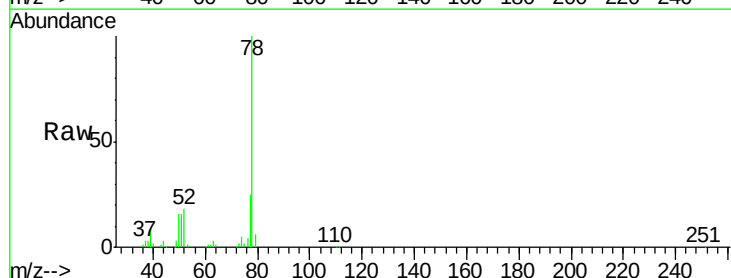
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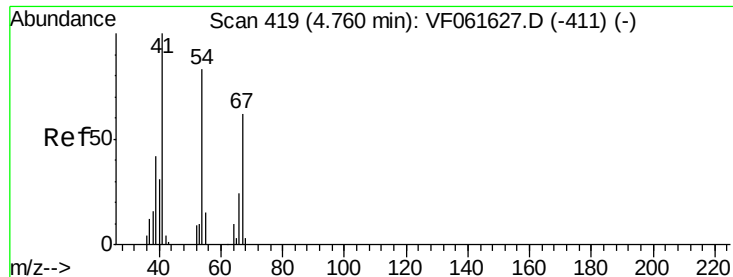
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#40
Benzene
Concen: 11.343 ug/l
RT: 4.61 min Scan# 403
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	78	Resp	129111
Ion Ratio	Lower	Upper	
78	100		
77	25.2	19.0	28.6





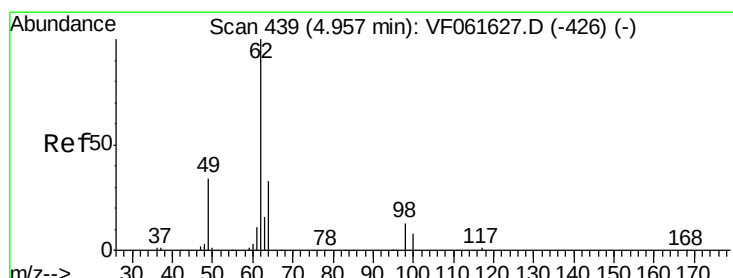
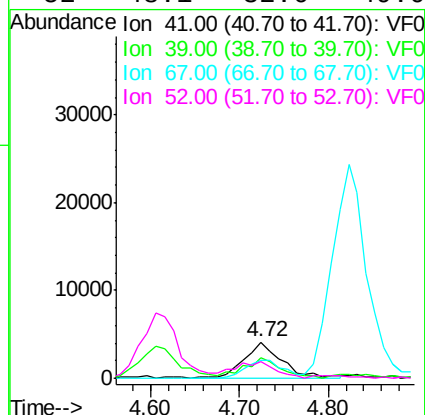
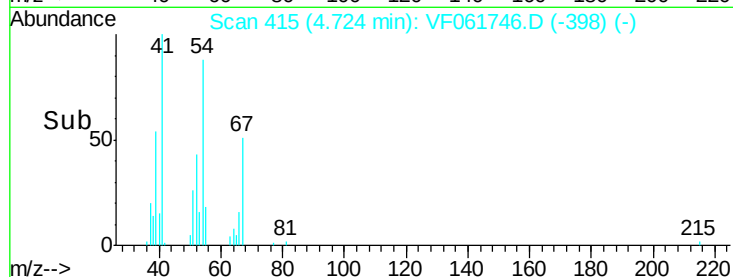
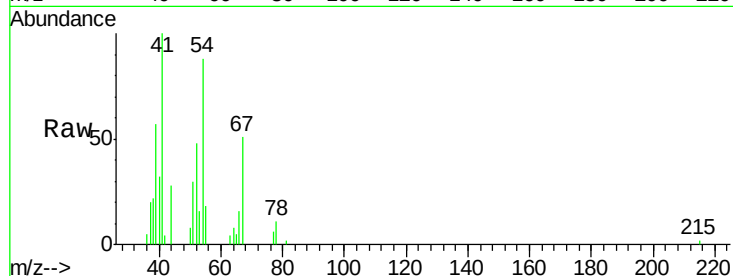
#41
Methacrylonitrile
Concen: 11.866 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	41	Resp	12265
Ion Ratio	Lower	Upper	
41	100		
39	56.6	45.3	67.9
67	50.9	49.3	73.9
52	48.1	32.6	49.0

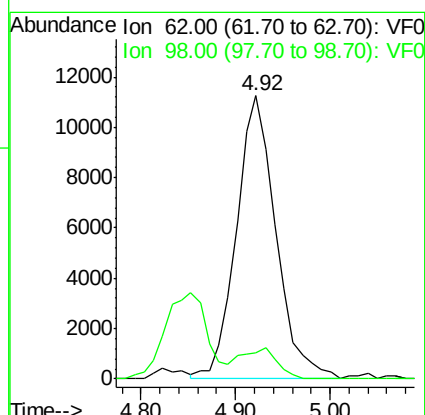
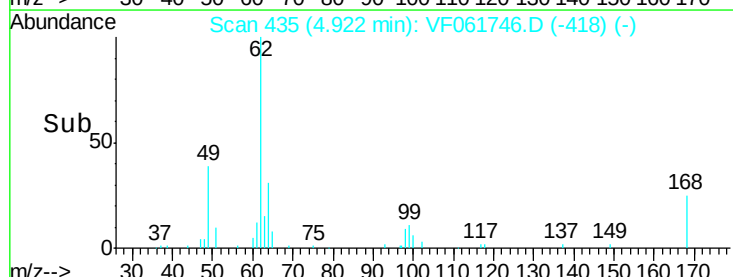
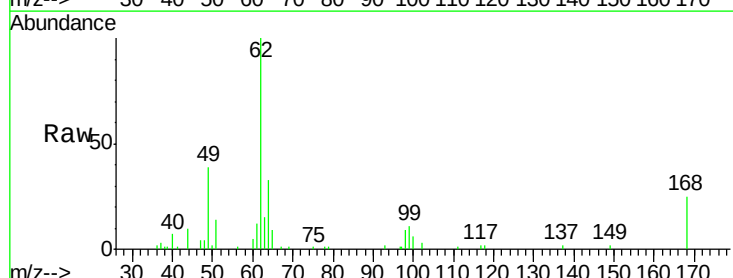
Manual Integrations
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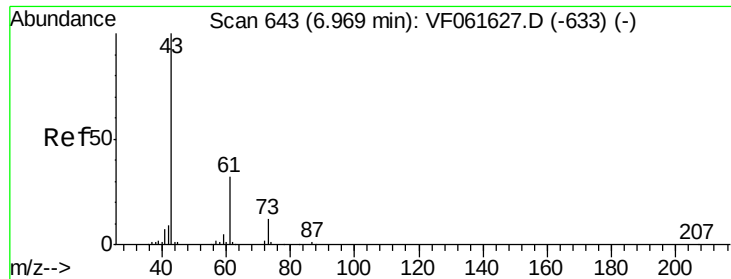
MMDadoda
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#42
1,2-Dichloroethane
Concen: 11.957 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	62	Resp	32555
Ion Ratio	Lower	Upper	
62	100		
98	9.3	0.0	26.0





#43

Isopropyl Acetate

Concen: 11.154 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

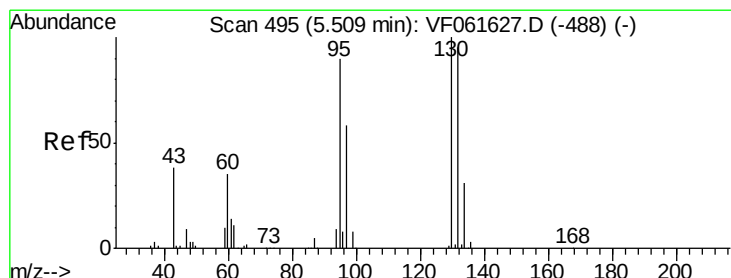
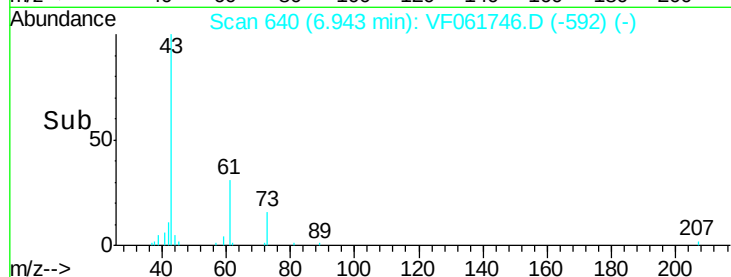
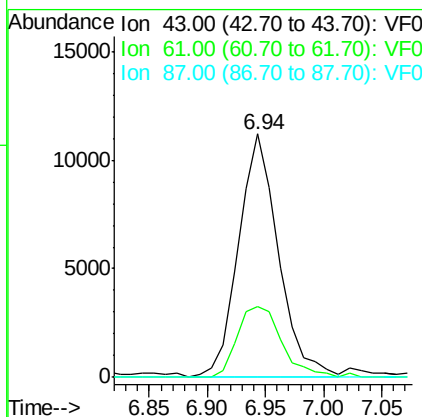
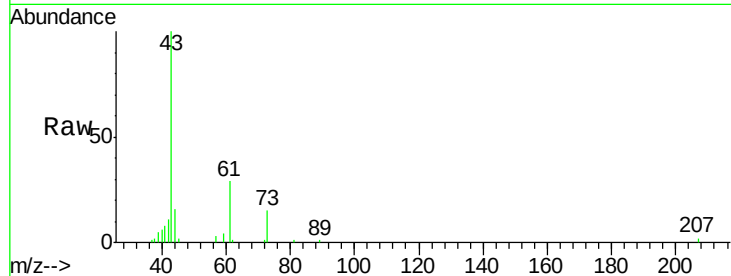
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	43	Resp:	26685
Ion Ratio	Lower	Upper	
43	100		
61	29.2	25.8	38.6
87	0.0	0.4	0.6#

Manual Integrations
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#44

Trichloroethene

Concen: 11.458 ug/l

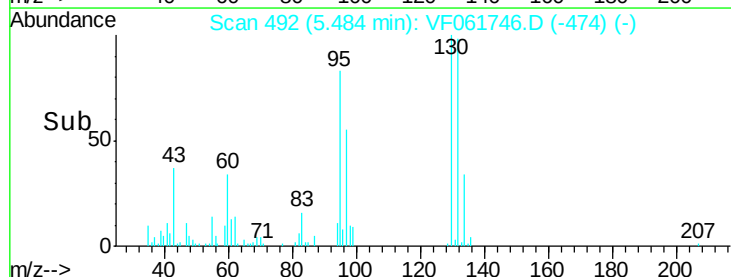
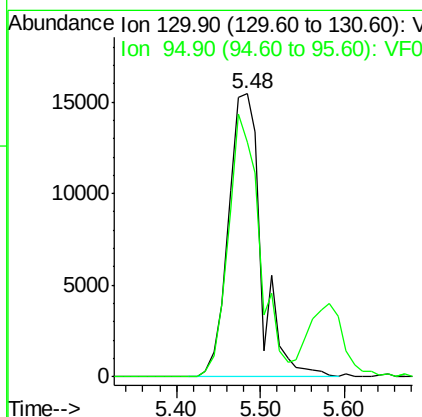
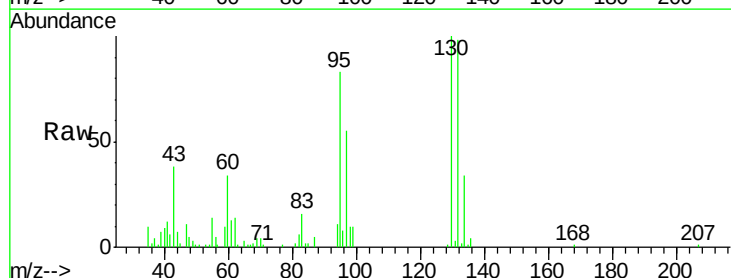
RT: 5.48 min Scan# 492

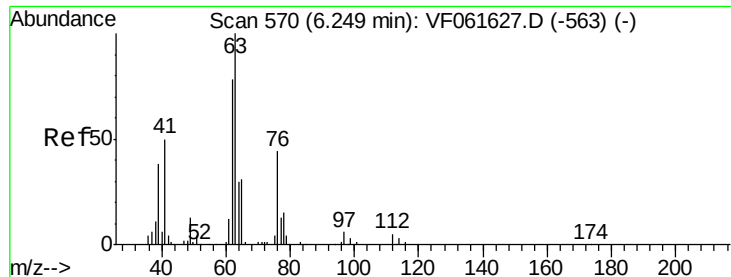
Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	130	Resp:	42172
Ion Ratio	Lower	Upper	
130	100		
95	83.0	0.0	179.4





#45

1,2-Dichloropropane

Concen: 11.984 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 63 Resp: 32970

Ion Ratio Lower Upper

63 100

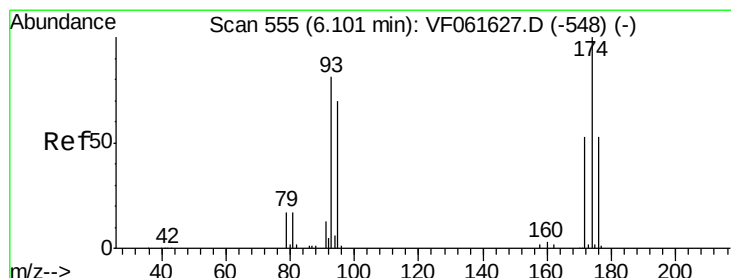
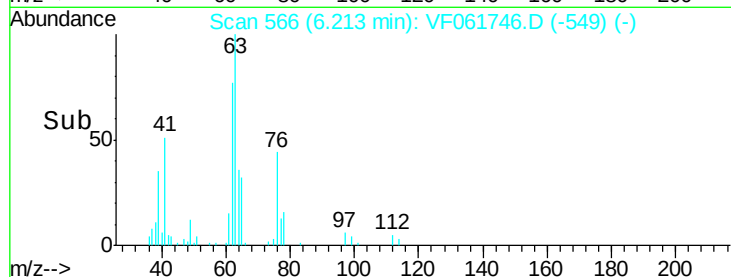
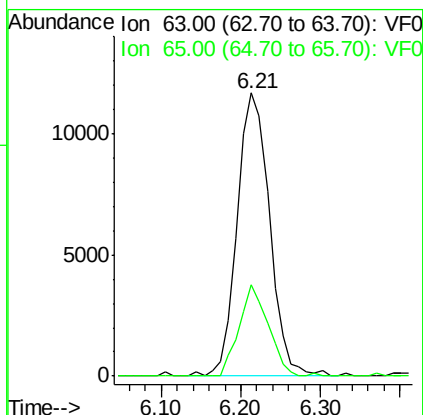
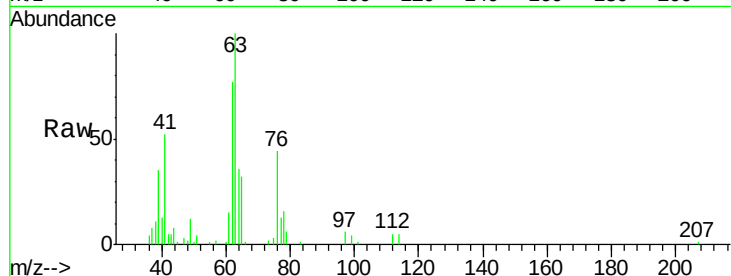
65 32.3 24.9 37.3

Manual Integrations

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#46

Dibromomethane

Concen: 11.297 ug/l

RT: 6.07 min Scan# 551

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

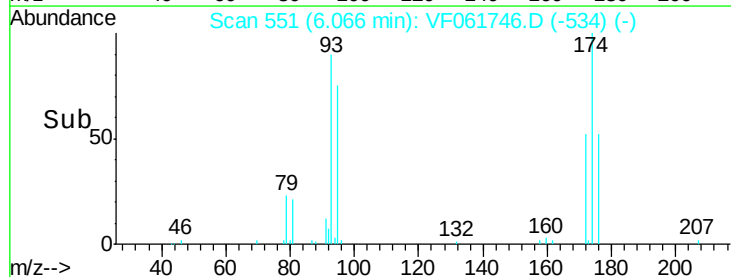
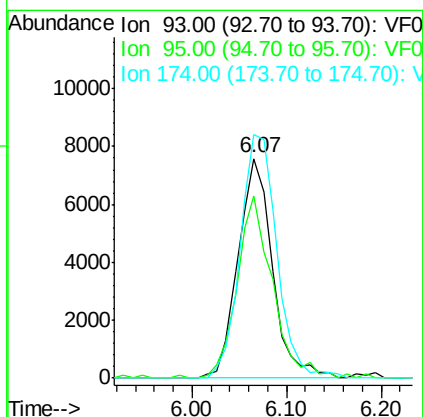
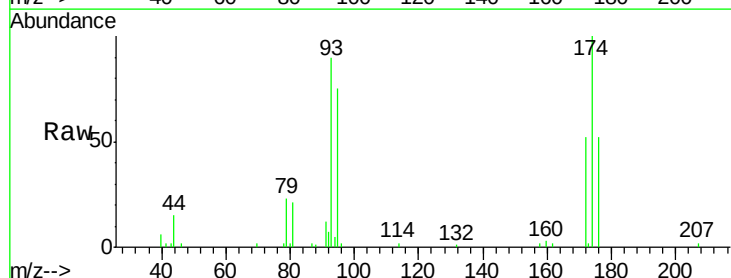
Tgt Ion: 93 Resp: 19136

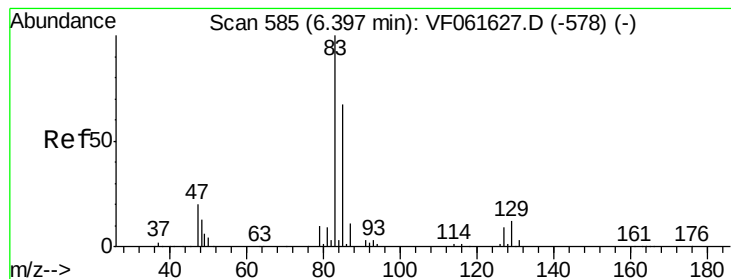
Ion Ratio Lower Upper

93 100

95 82.6 69.0 103.6

174 110.8 99.3 148.9





#47

Bromodichloromethane

Concen: 12.216 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

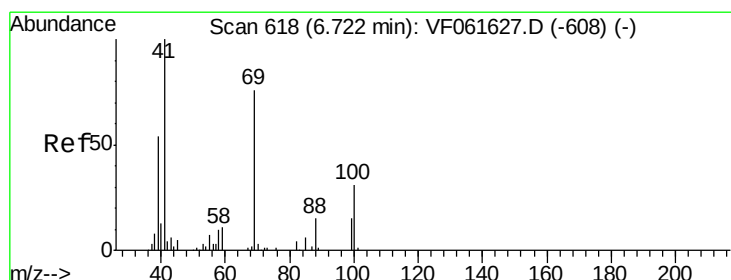
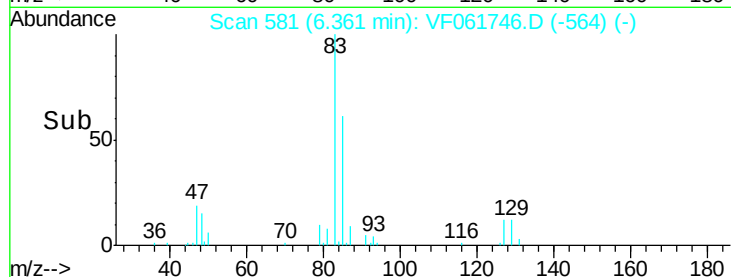
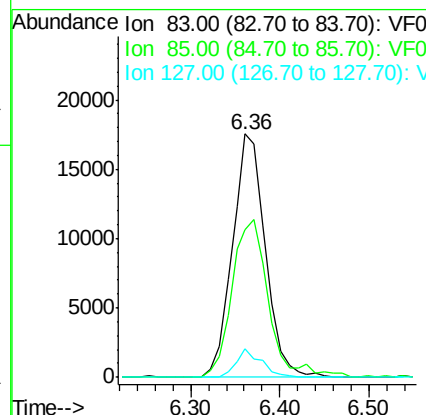
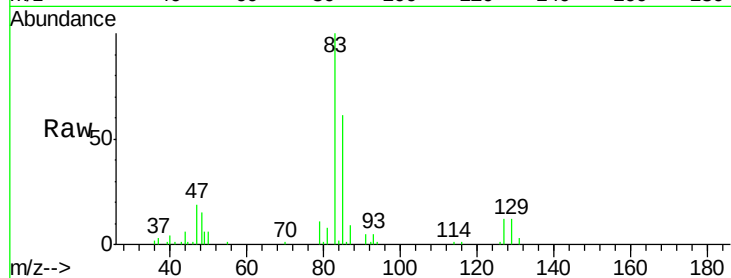
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	83	Resp:	45316
Ion	Ratio	Lower	Upper
83	100		
85	60.6	53.4	80.2
127	11.9	7.5	11.3#

Manual Integrations
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#48

Methyl methacrylate

Concen: 11.628 ug/l

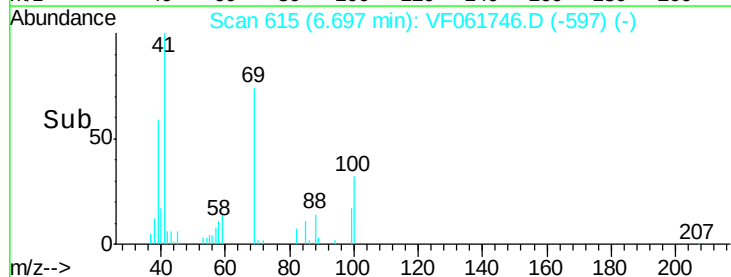
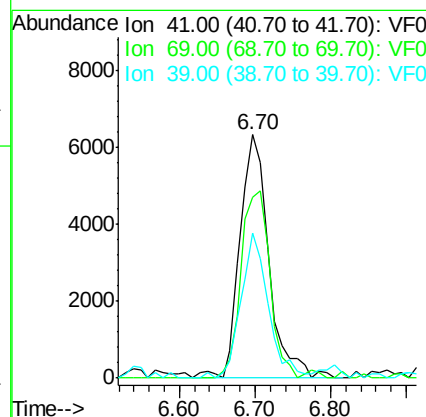
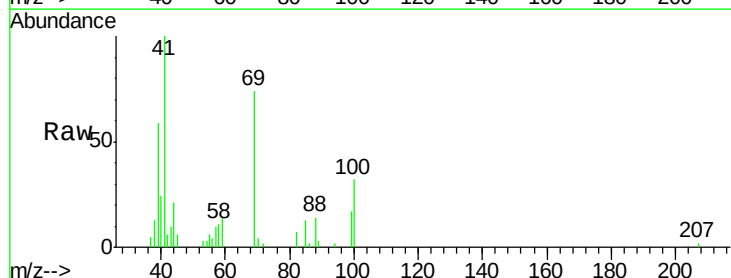
RT: 6.70 min Scan# 615

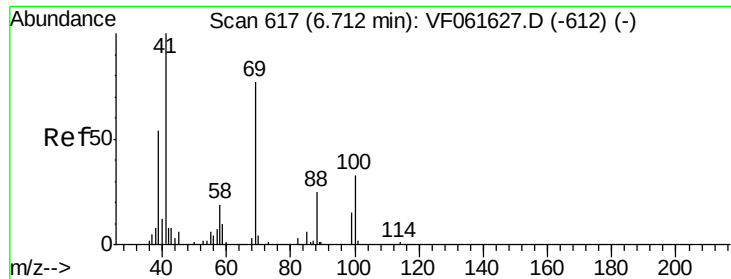
Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	41	Resp:	16741
Ion	Ratio	Lower	Upper
41	100		
69	74.1	60.4	90.6
39	59.5	43.7	65.5





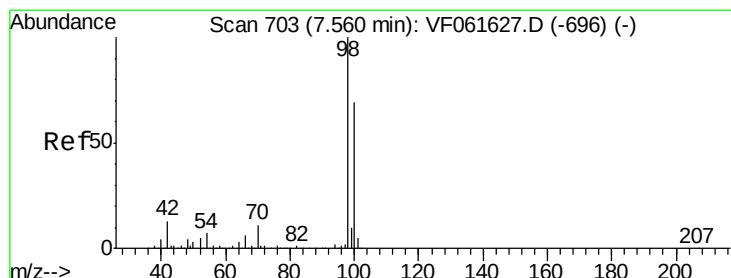
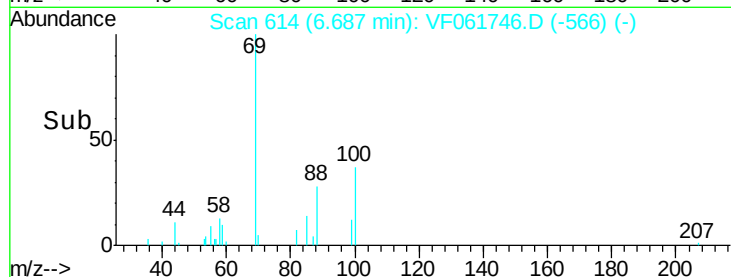
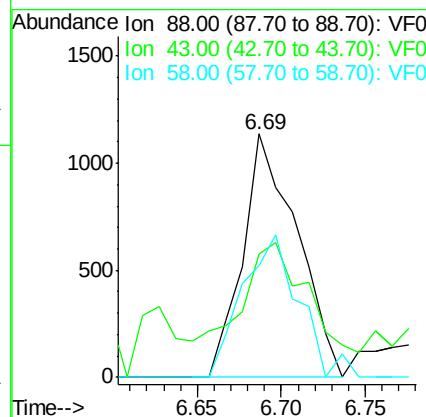
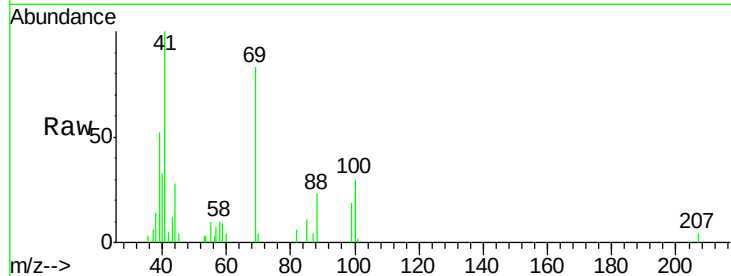
#49
1,4-Dioxane
Concen: 187.745 ug/l
RT: 6.69 min Scan# 614
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Resp	Lower	Upper
88	100	2541		
43	50.8		32.3	48.5#
58	45.9		59.4	89.2#

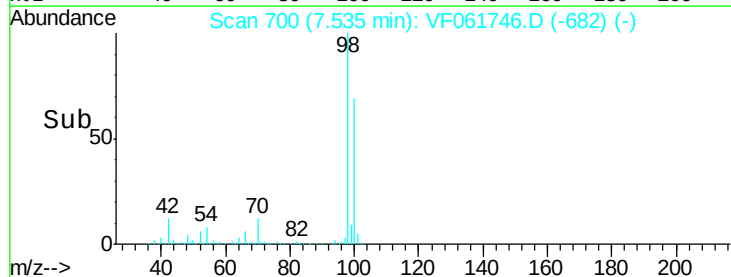
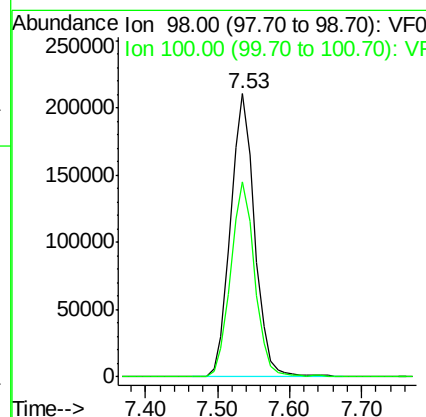
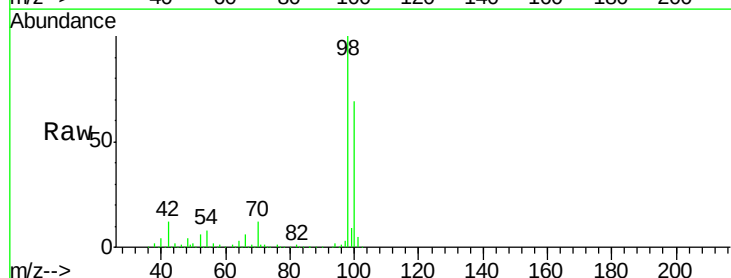
Manual Integrations
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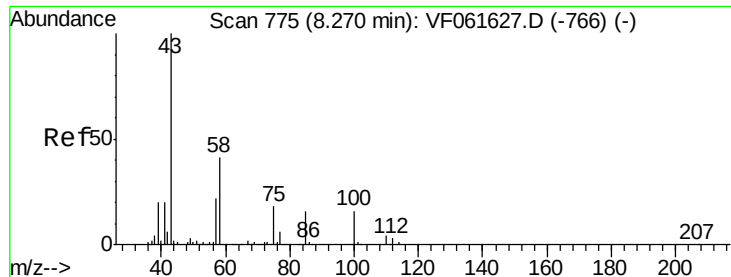
MMDadoda
2/27/2019 3:19:38 PM



#50
Toluene-d8
Concen: 52.443 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	491780		
100	69.0		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 56.624 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 96797

Ion Ratio Lower Upper

43 100

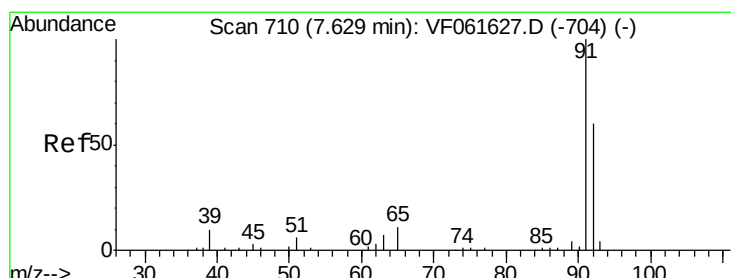
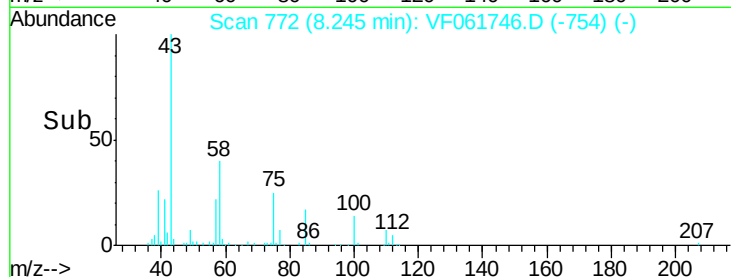
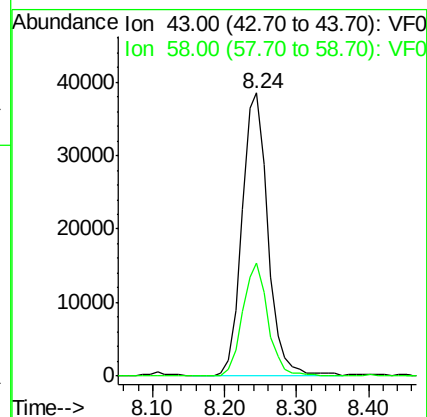
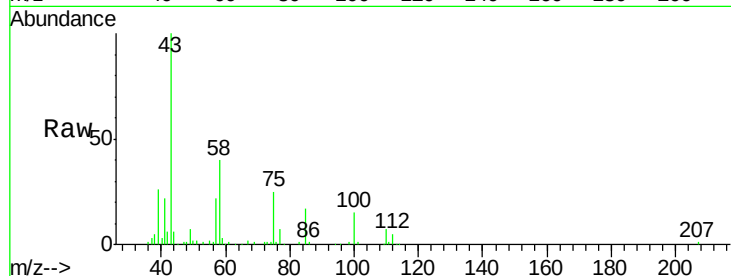
58 39.9 33.1 49.7

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#52

Toluene

Concen: 11.690 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061746.D

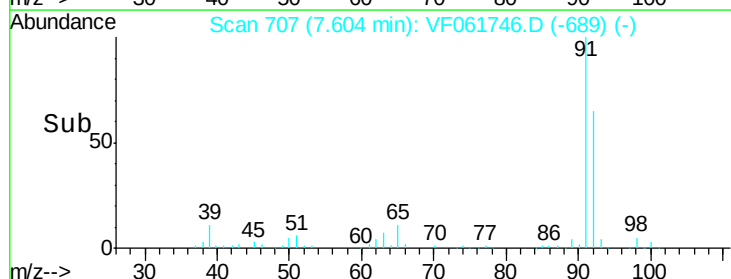
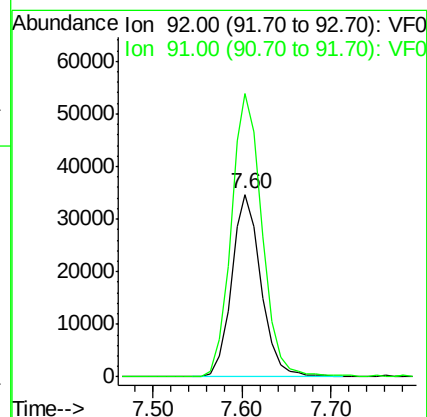
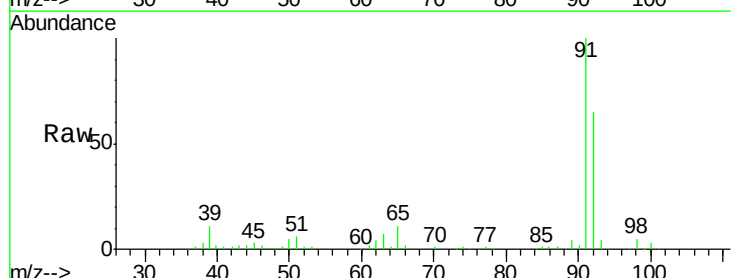
Acq: 26 Feb 2019 17:32

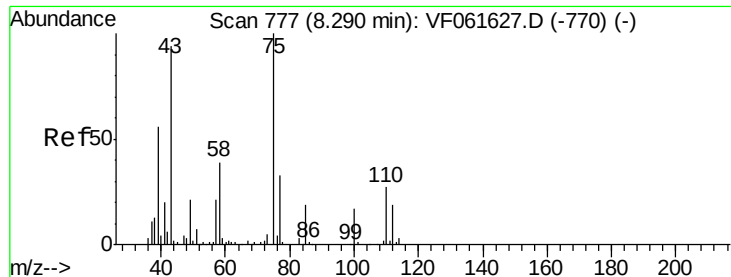
Tgt Ion: 92 Resp: 80698

Ion Ratio Lower Upper

92 100

91 155.0 133.9 200.9





#53

t-1,3-Dichloropropene

Concen: 12.562 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 75 Resp: 38782

Ion Ratio Lower Upper

75 100

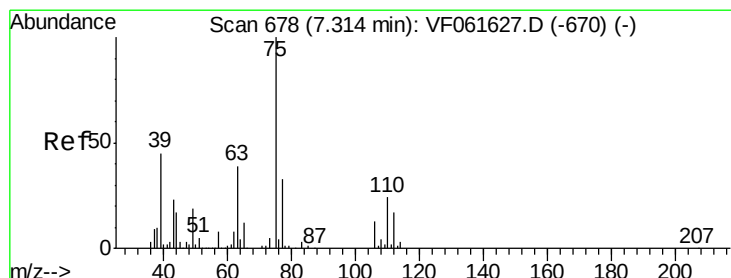
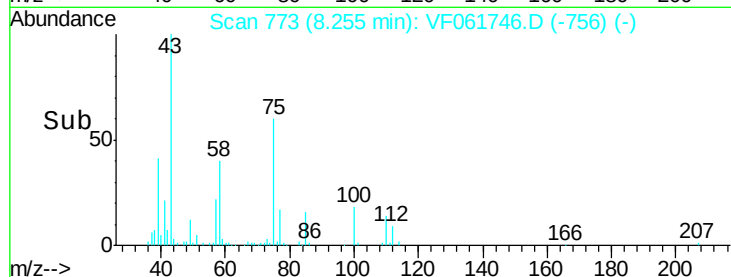
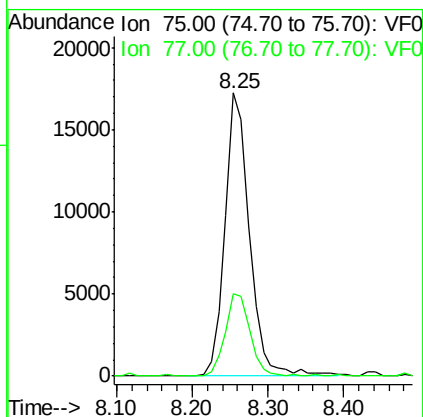
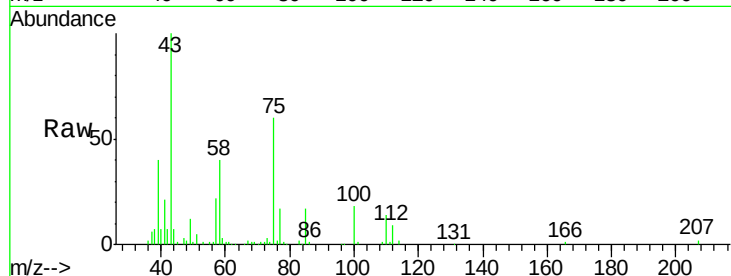
77 29.0 26.2 39.2

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 12.654 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

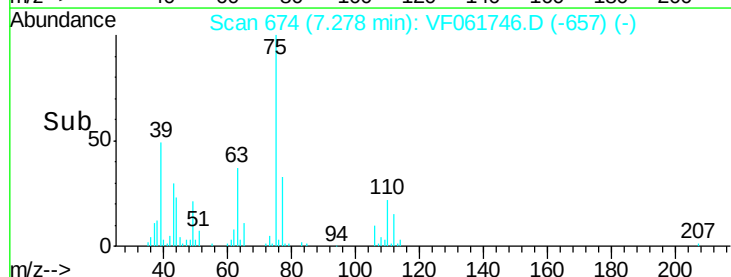
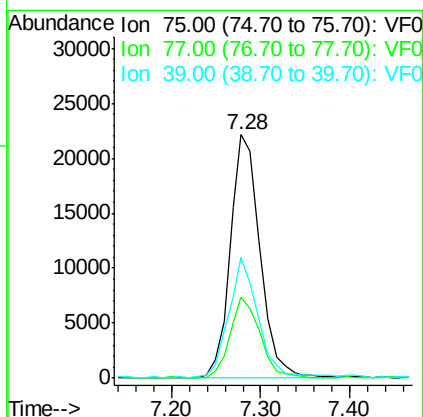
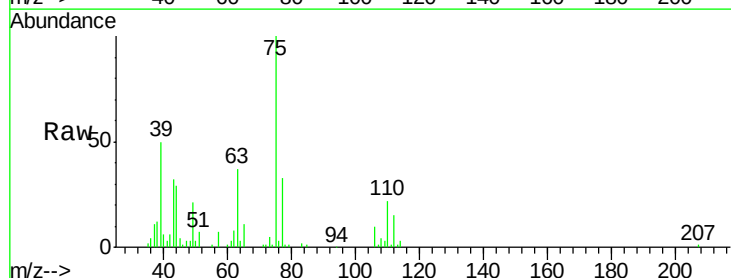
Tgt Ion: 75 Resp: 52038

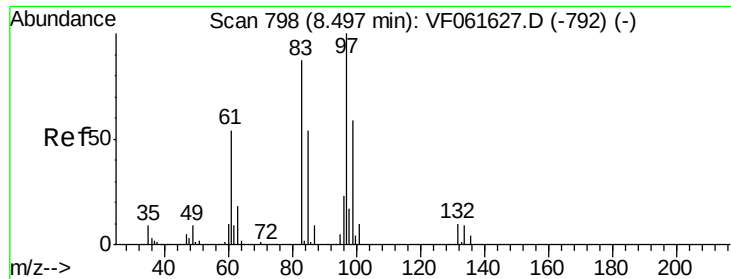
Ion Ratio Lower Upper

75 100

77 33.5 26.4 39.6

39 49.7 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 11.706 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

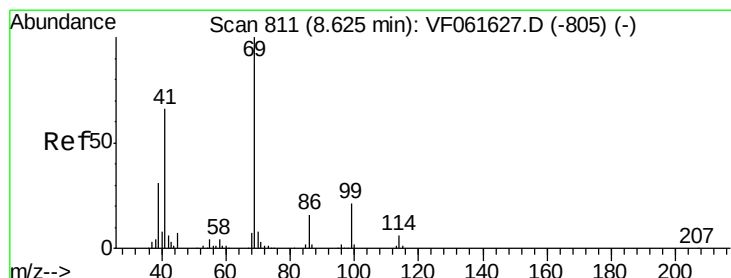
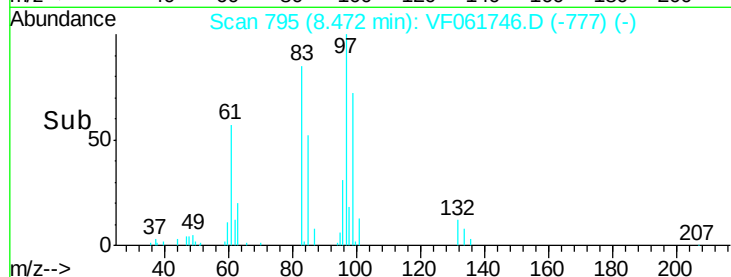
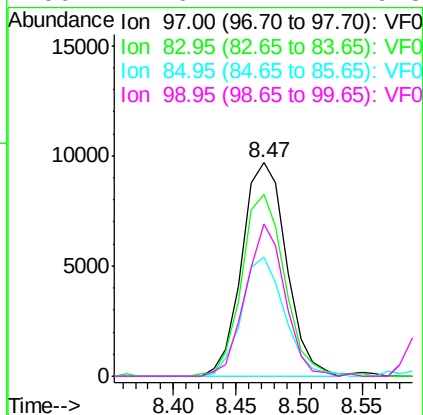
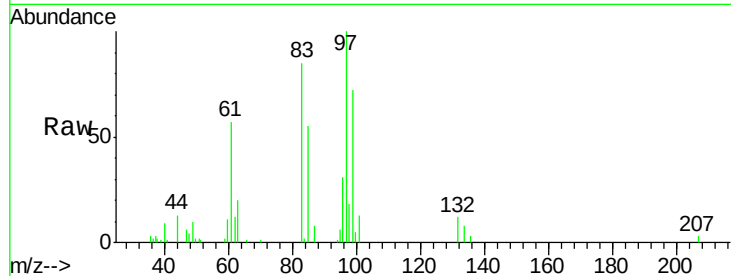
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	97	Resp:	23742
Ion	Ratio	Lower	Upper
97	100		
83	85.0	69.2	103.8
85	55.5	43.0	64.4
99	71.6	47.2	70.8#

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#56

Ethyl methacrylate

Concen: 10.987 ug/l

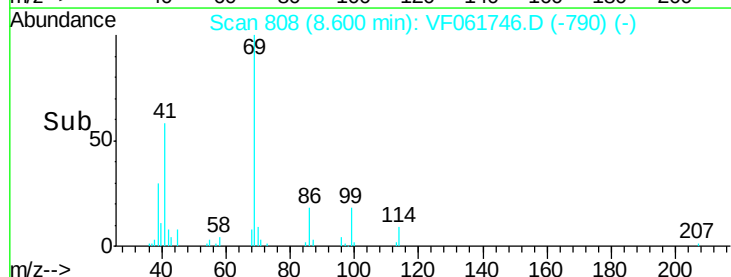
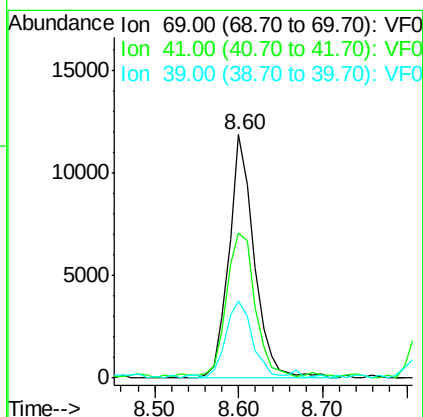
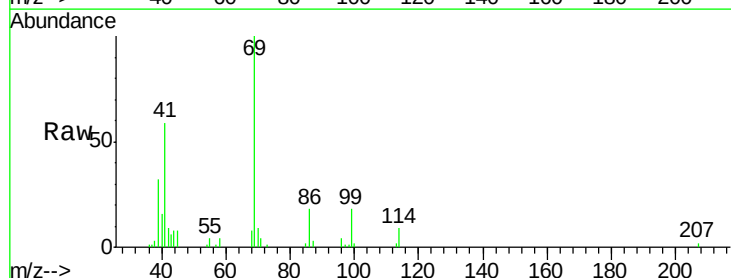
RT: 8.60 min Scan# 808

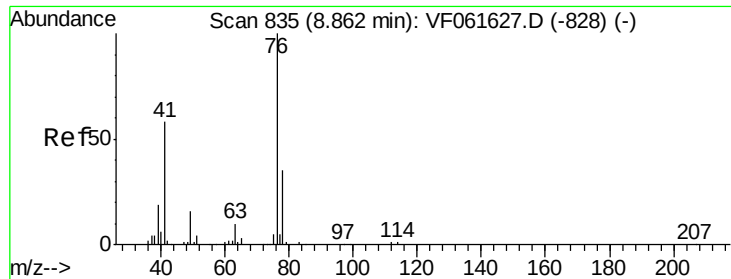
Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	69	Resp:	24809
Ion	Ratio	Lower	Upper
69	100		
41	59.5	52.9	79.3
39	31.8	24.5	36.7





#57

1,3-Dichloropropane

Concen: 11.807 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 76 Resp: 39969

Ion Ratio Lower Upper

76 100

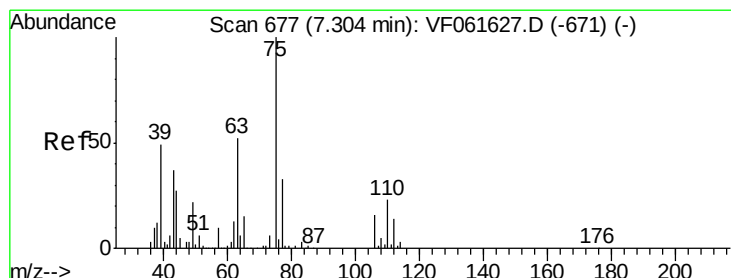
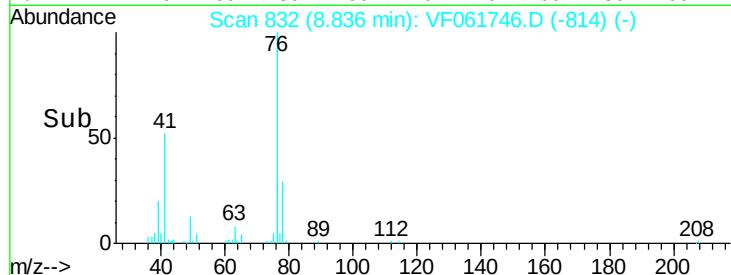
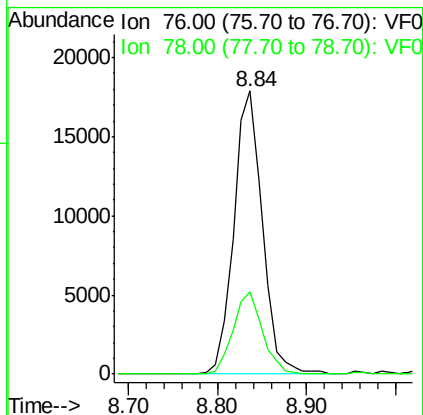
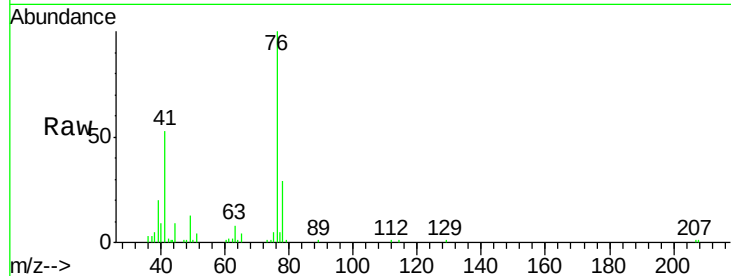
78 29.3 27.8 41.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 52.274 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061746.D

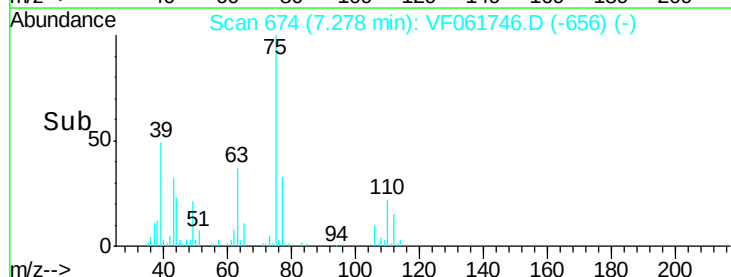
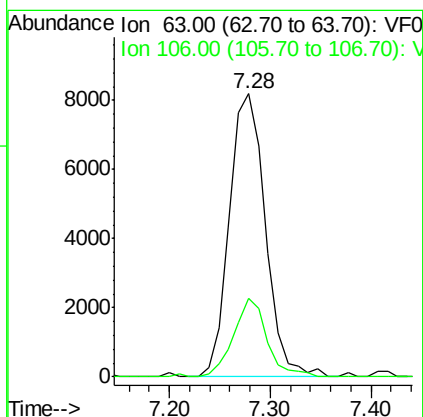
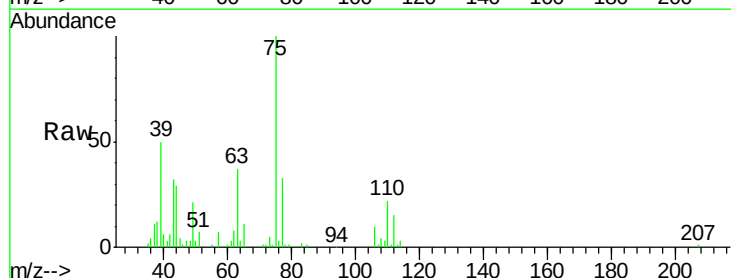
Acq: 26 Feb 2019 17:32

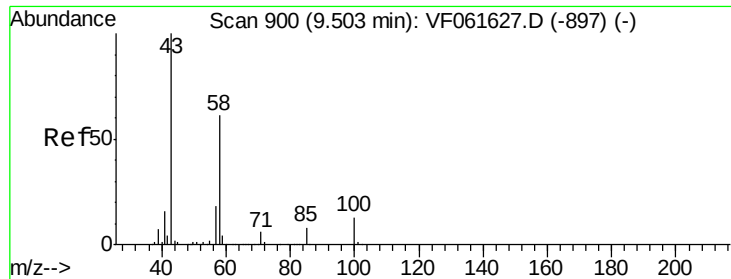
Tgt Ion: 63 Resp: 20366

Ion Ratio Lower Upper

63 100

106 27.9 24.6 36.8





#59

2-Hexanone

Concen: 59.860 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 71730

Ion Ratio Lower Upper

43 100

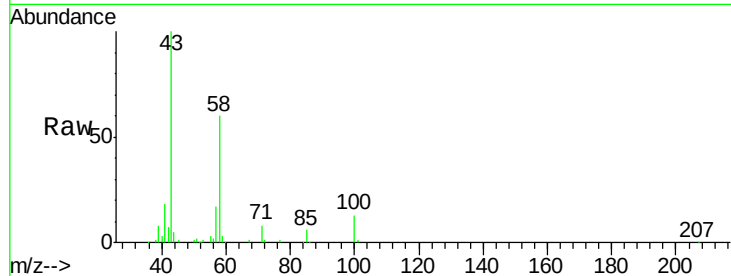
58 59.7 28.5 85.5

Manual Integrations

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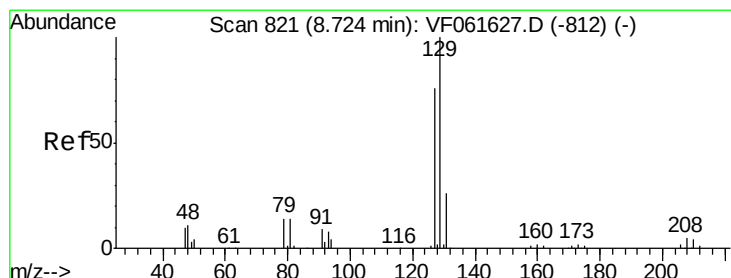
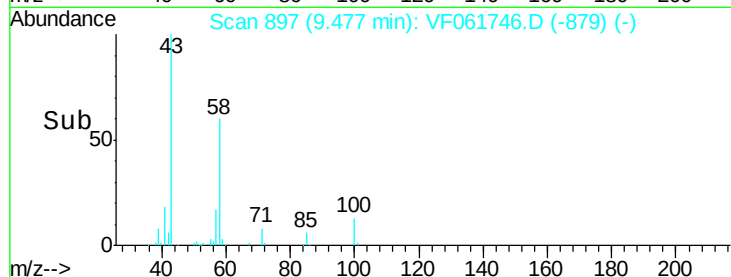
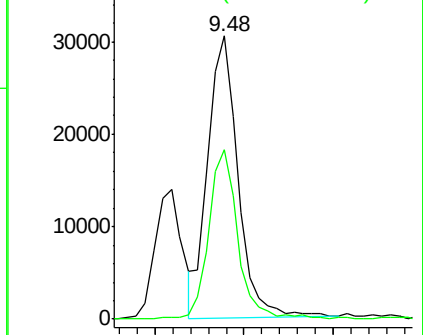
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#60

Dibromochloromethane

Concen: 11.035 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061746.D

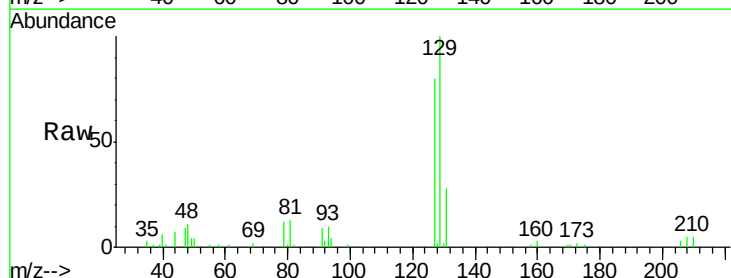
Acq: 26 Feb 2019 17:32

Tgt Ion: 129 Resp: 31152

Ion Ratio Lower Upper

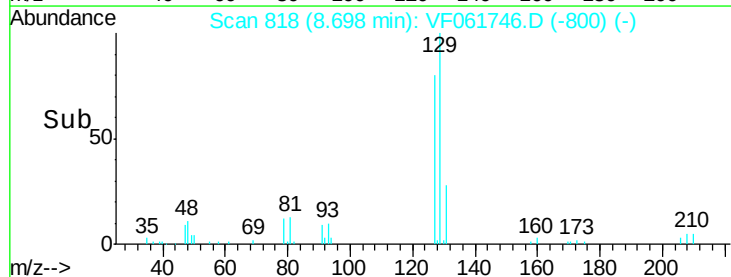
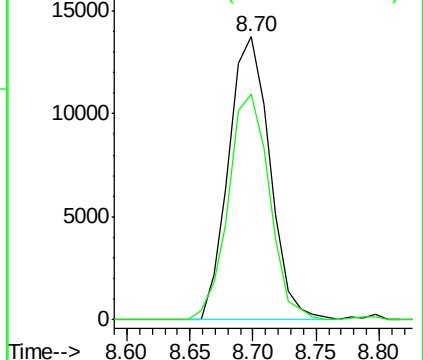
129 100

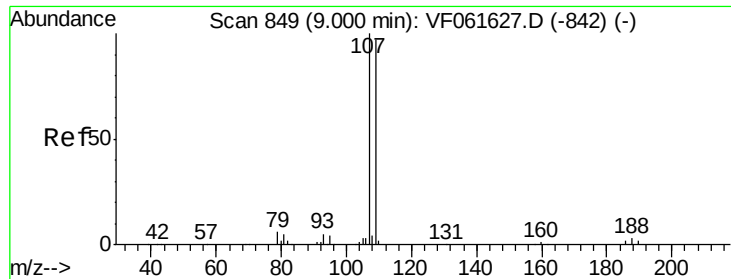
127 79.6 37.8 113.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#61

1,2-Dibromoethane

Concen: 11.329 ug/l

RT: 8.96 min Scan# 845

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:107 Resp: 24922

Ion Ratio Lower Upper

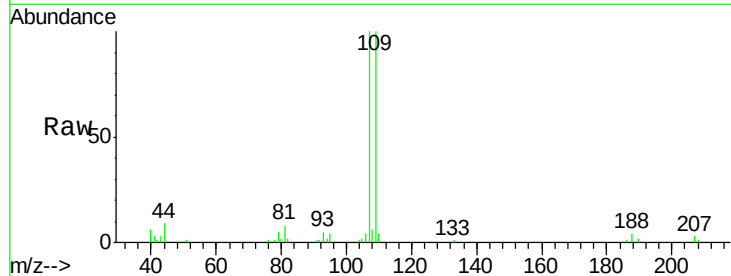
107 100

109 99.9 77.4 116.0

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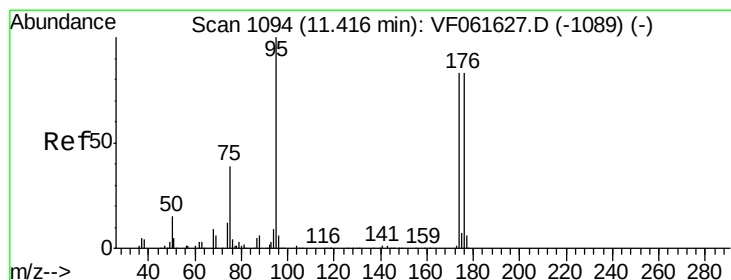
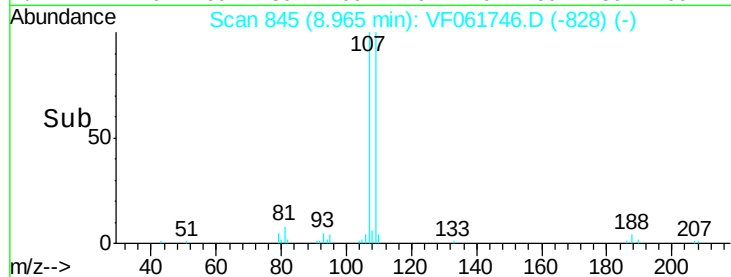
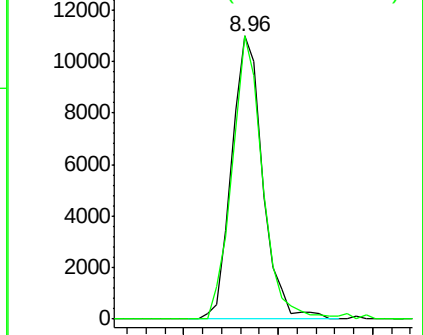
MMDadoda

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 55.975 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

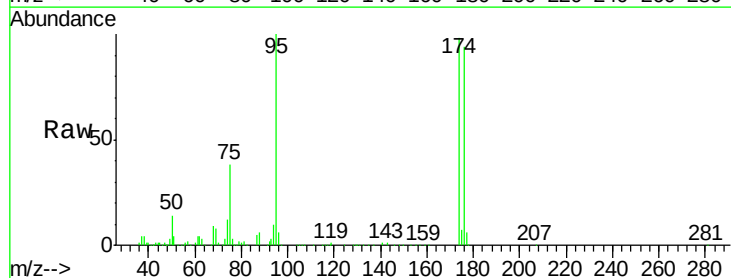
Tgt Ion: 95 Resp: 212386

Ion Ratio Lower Upper

95 100

174 97.8 0.0 165.8

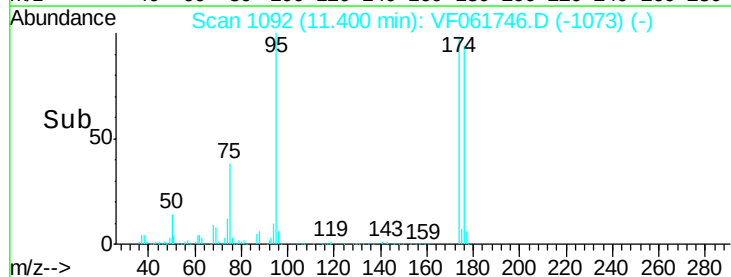
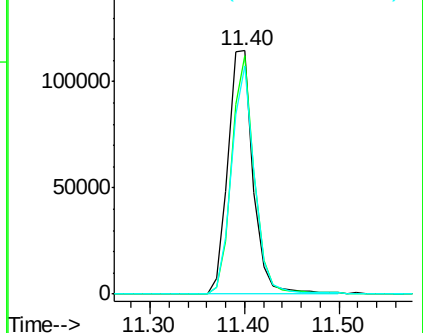
176 93.9 0.0 167.0

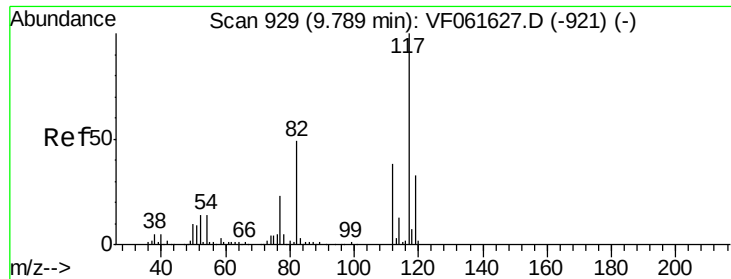


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





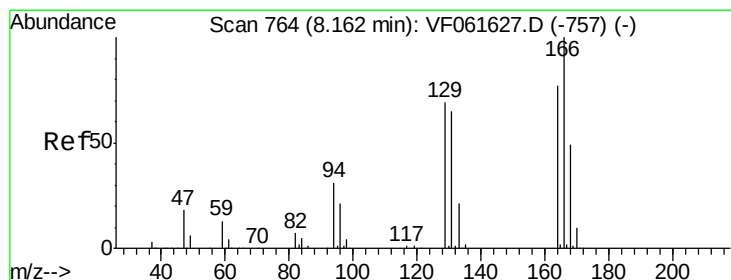
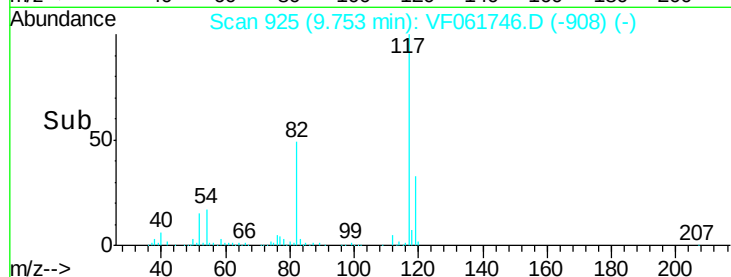
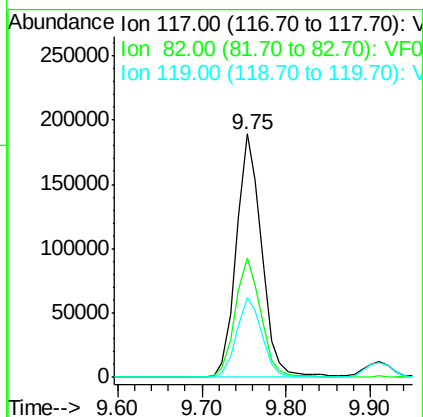
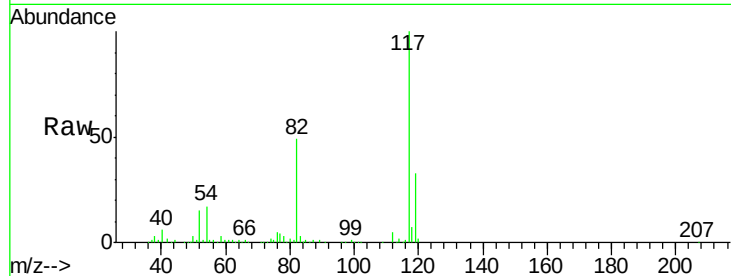
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	395795		
82	49.2		39.3	58.9
119	32.8		26.6	40.0

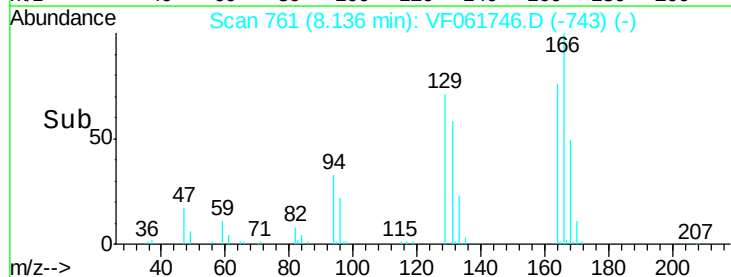
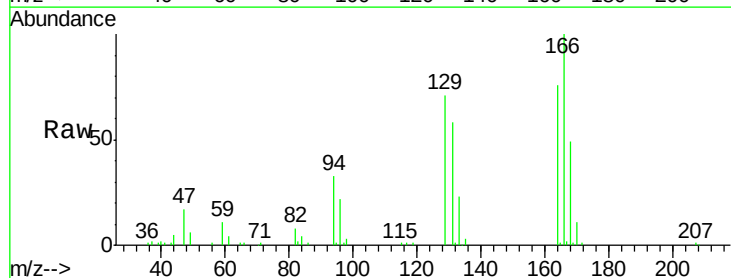
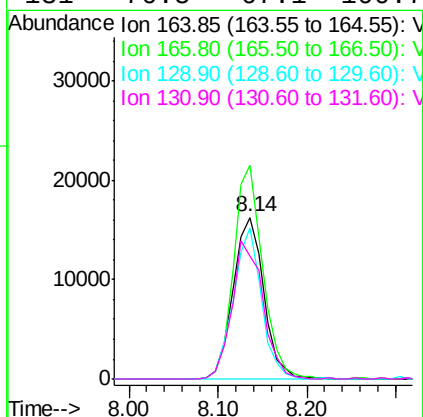
Manual Integrations
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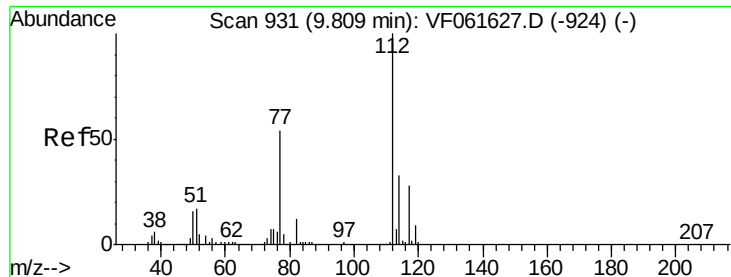
MMDadoda
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#64
Tetrachloroethene
Concen: 12.151 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	39310		
166	132.4		103.9	155.9
129	93.7		71.3	106.9
131	76.5		67.1	100.7





#65

Chlorobenzene

Concen: 11.921 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:112 Resp: 95746

Ion Ratio Lower Upper

112 100

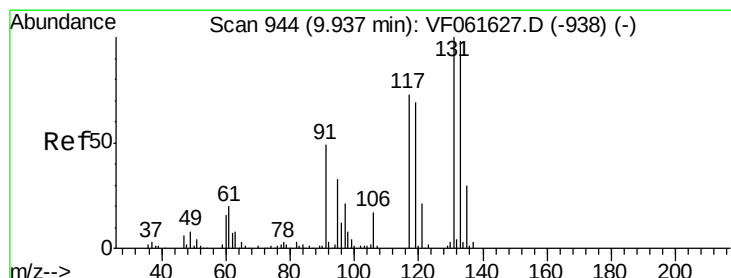
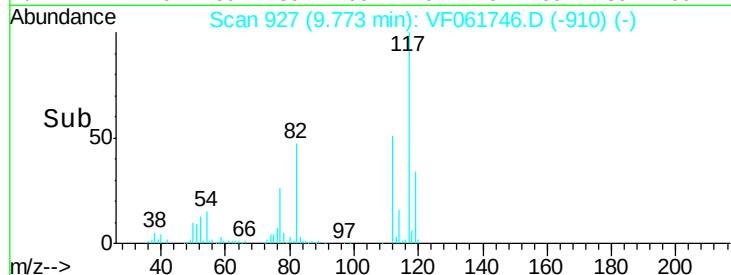
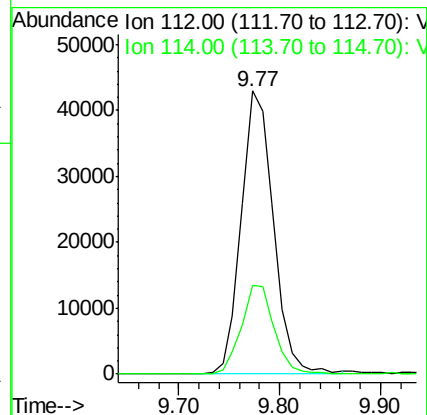
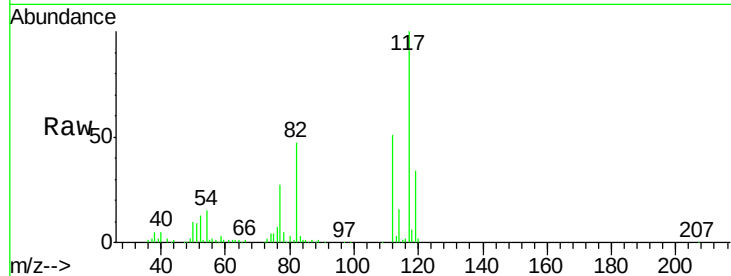
114 31.2 26.2 39.2

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 11.911 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

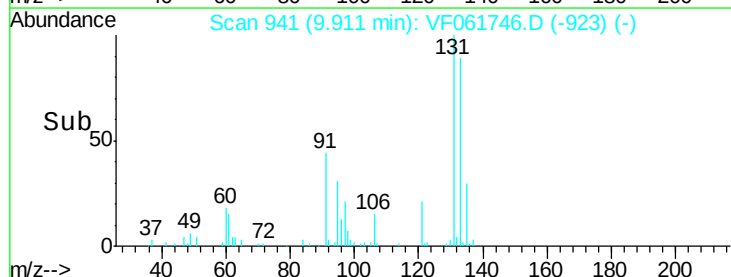
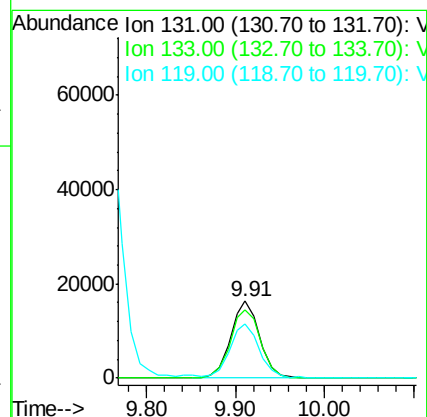
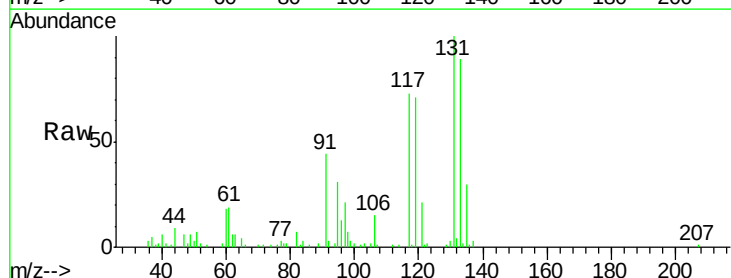
Tgt Ion:131 Resp: 37486

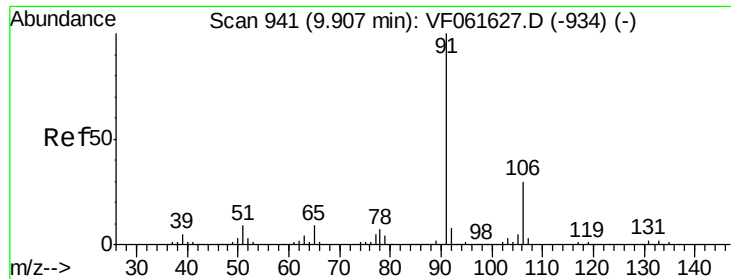
Ion Ratio Lower Upper

131 100

133 89.3 48.9 146.6

119 71.2 34.8 104.3





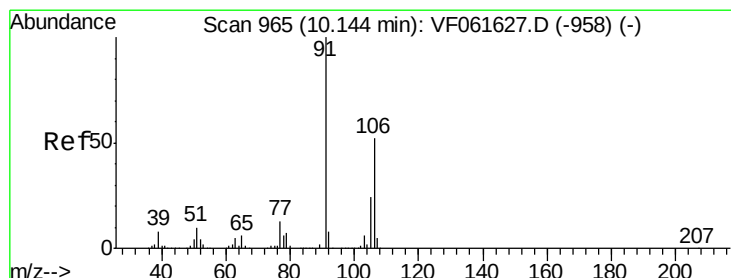
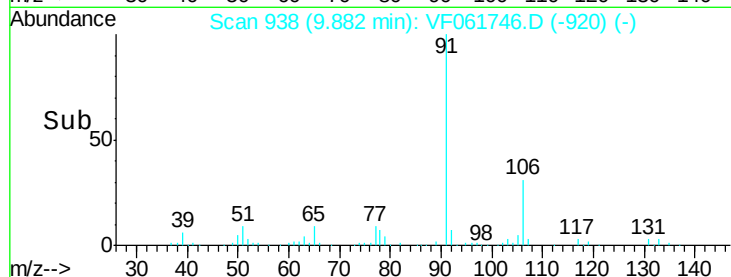
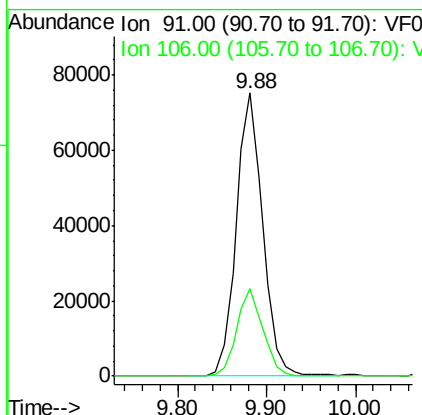
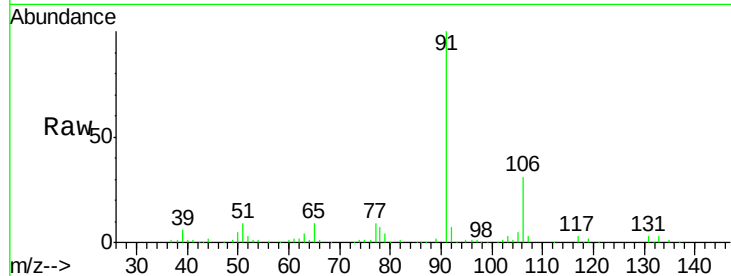
#67
Ethyl Benzene
Concen: 11.658 ug/l
RT: 9.88 min Scan# 938
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion: 91 Resp: 155714
Ion Ratio Lower Upper
91 100
106 30.8 24.1 36.1

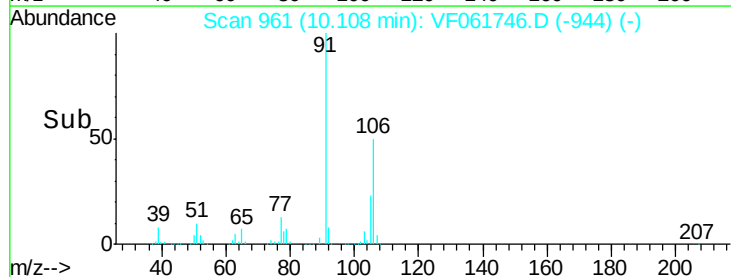
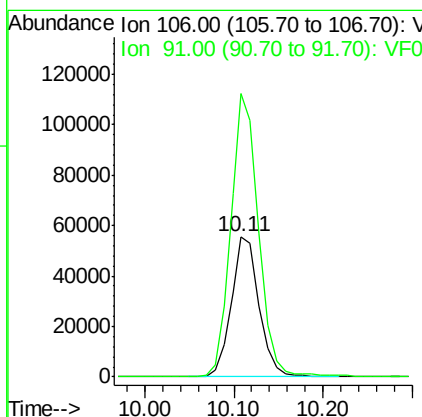
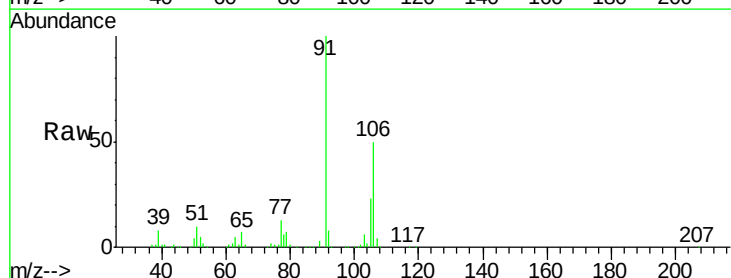
Manual Integrations
APPROVED

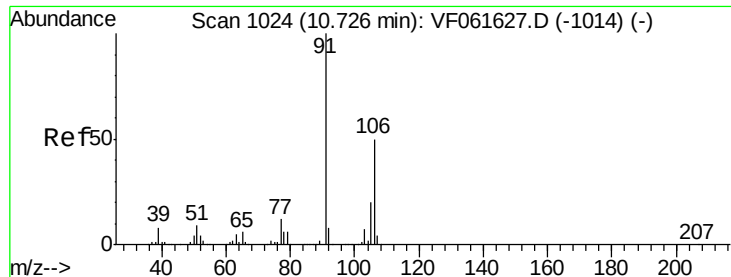
MMDadoda
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#68
m/p-Xylenes
Concen: 23.709 ug/l
RT: 10.11 min Scan# 961
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion: 106 Resp: 121195
Ion Ratio Lower Upper
106 100
91 201.8 153.0 229.6





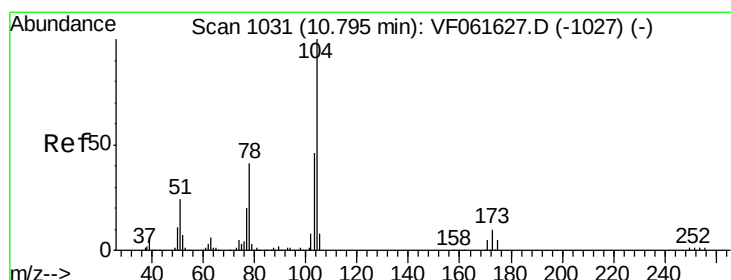
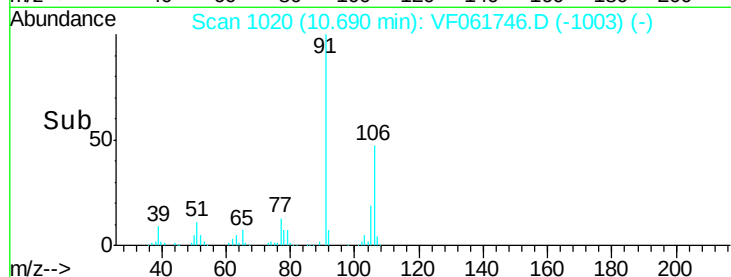
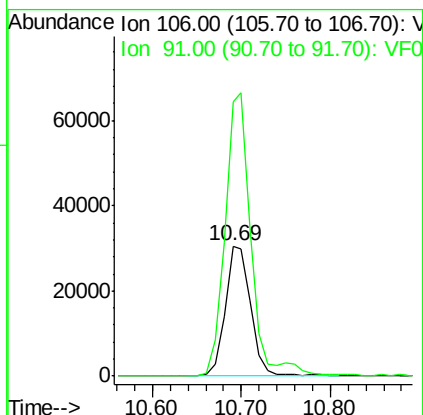
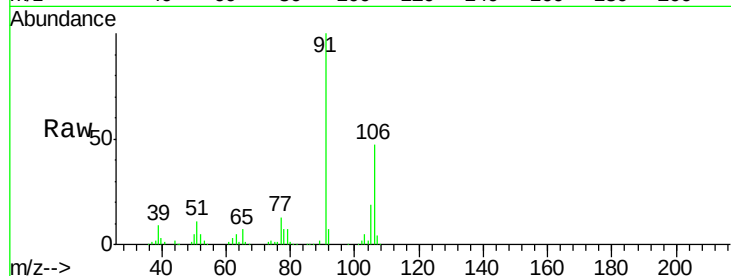
#69
o-Xylene
Concen: 11.295 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.04 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion:106 Resp: 61608
Ion Ratio Lower Upper
106 100
91 211.5 100.1 300.1

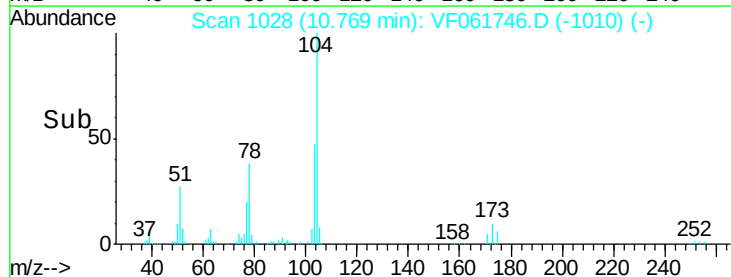
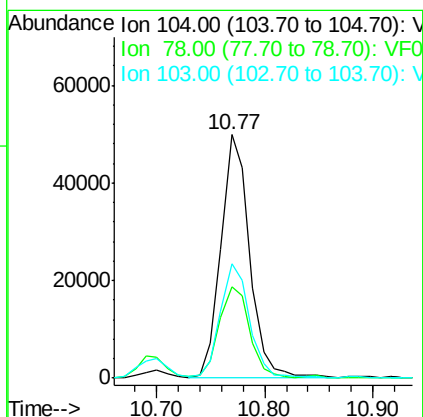
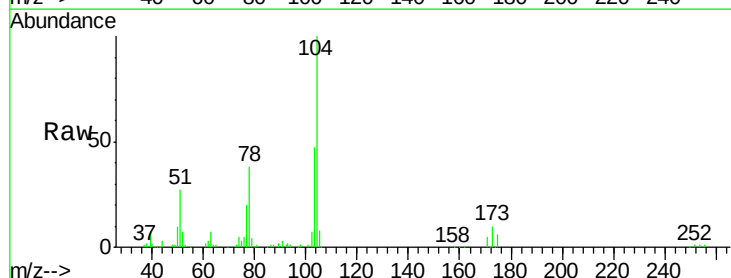
Manual Integrations
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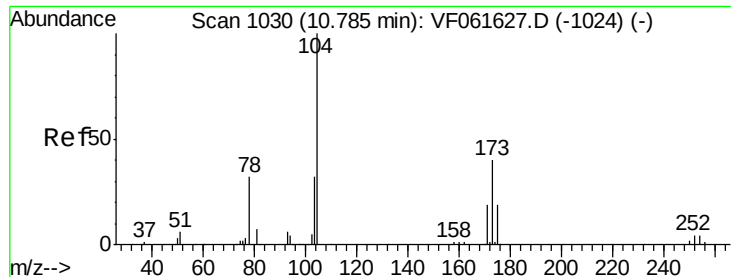
MMDadoda
2/27/2019 3:19:38 PM



#70
Styrene
Concen: 12.026 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion:104 Resp: 92796
Ion Ratio Lower Upper
104 100
78 37.6 33.2 49.8
103 47.0 37.2 55.8





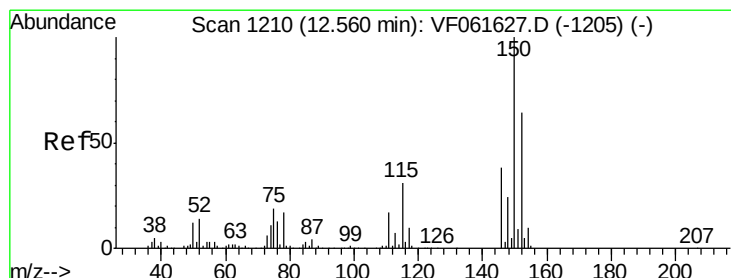
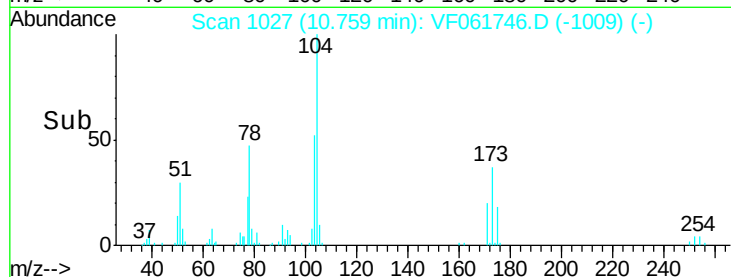
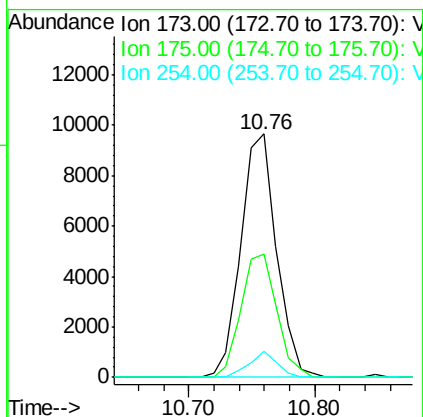
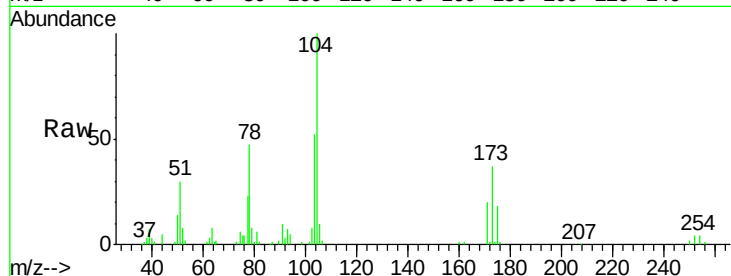
#71
Bromoform
Concen: 11.088 ug/l
RT: 10.76 min Scan# 1027
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.6	24.0	72.0
254	10.7	8.2	12.2

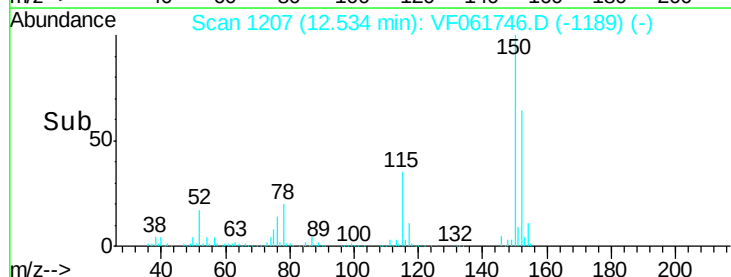
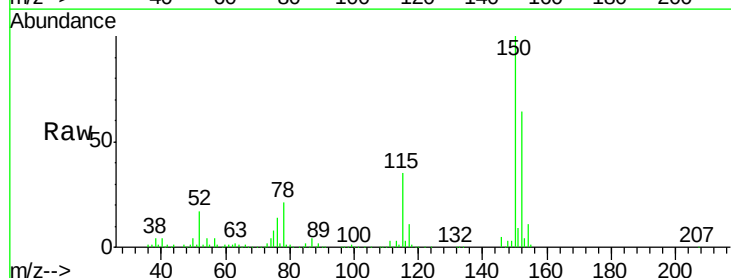
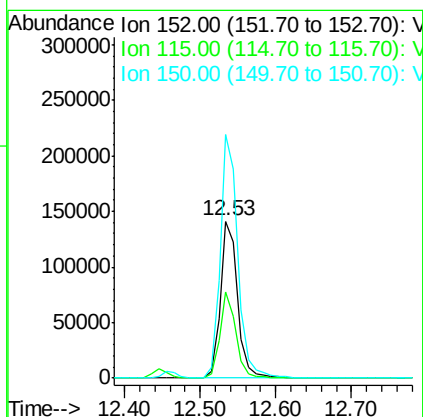
Manual Integrations
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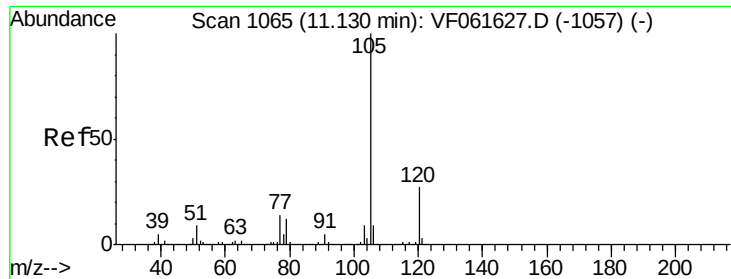
MMDadoda
2/27/2019 3:19:38 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.53 min Scan# 1207
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	24.3	72.8
150	155.5	0.0	312.0





#73

Isopropylbenzene

Concen: 11.745 ug/l

RT: 11.10 min Scan# 1062

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:105 Resp: 187649

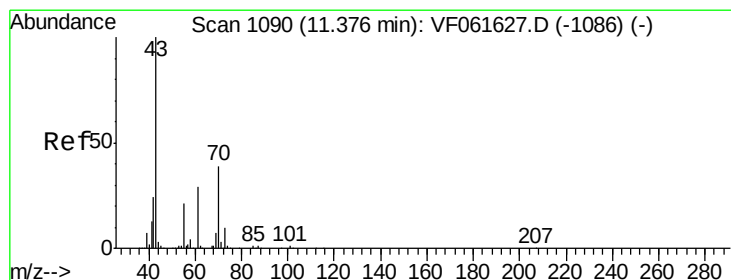
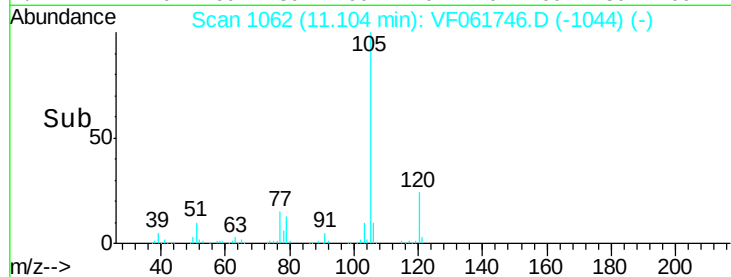
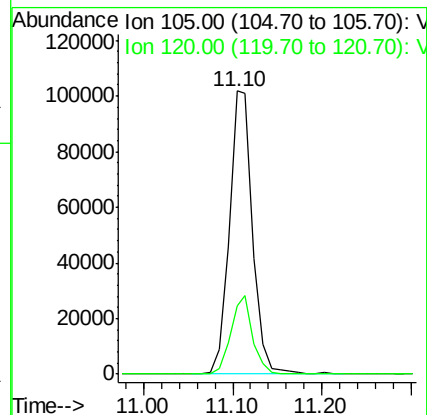
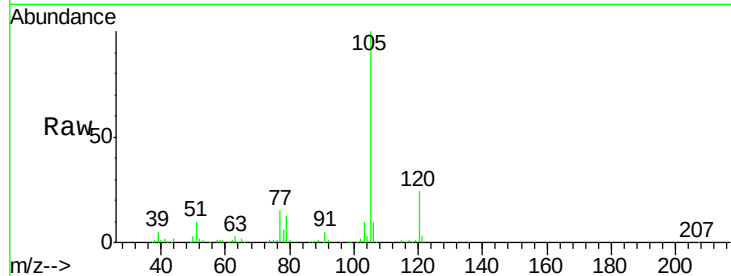
Ion Ratio Lower Upper

105 100

120 24.2 13.4 40.1

Manual Integrations
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#74

N-ethyl acetate

Concen: 10.856 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion: 43 Resp: 41631

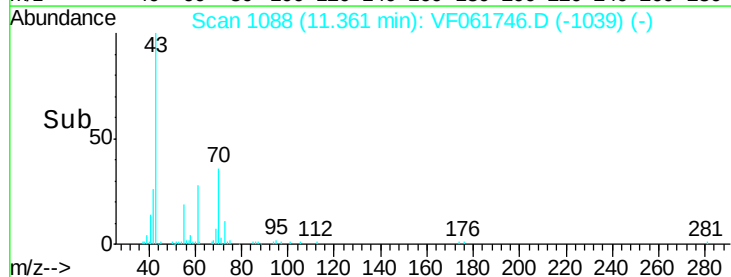
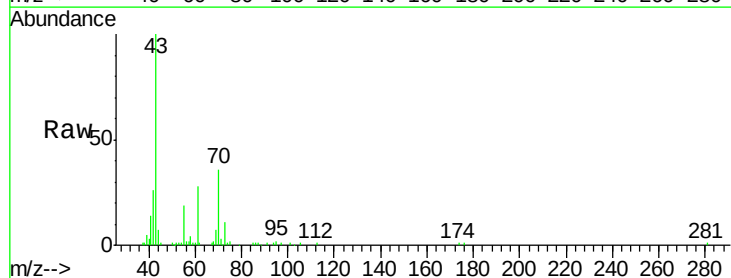
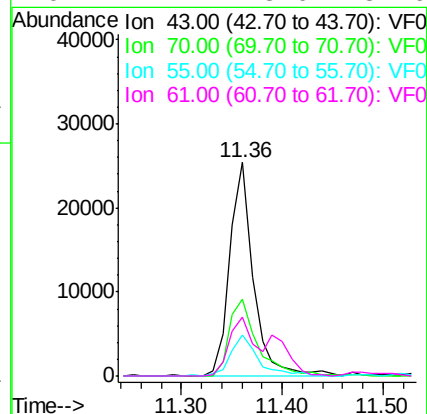
Ion Ratio Lower Upper

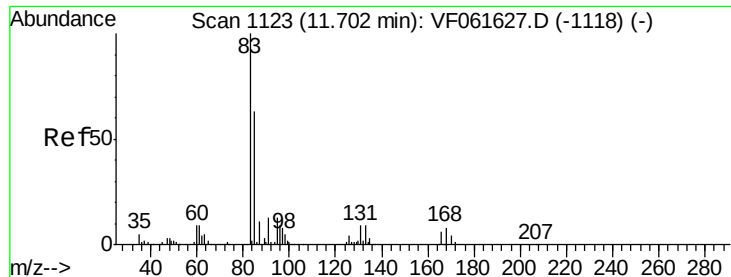
43 100

70 36.3 31.5 47.3

55 19.4 16.7 25.1

61 27.7 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 11.096 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

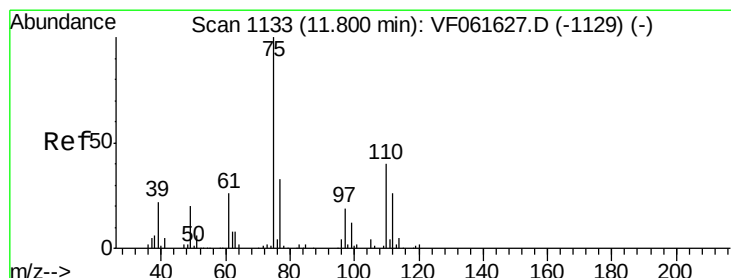
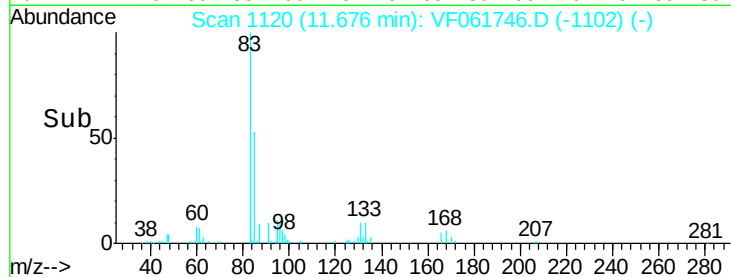
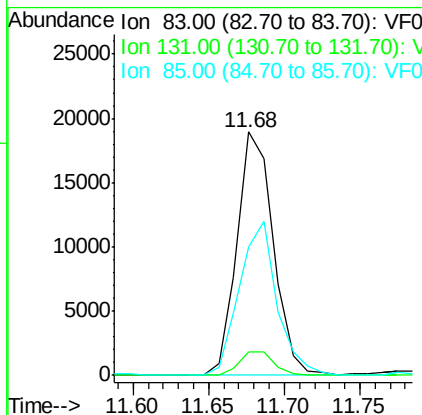
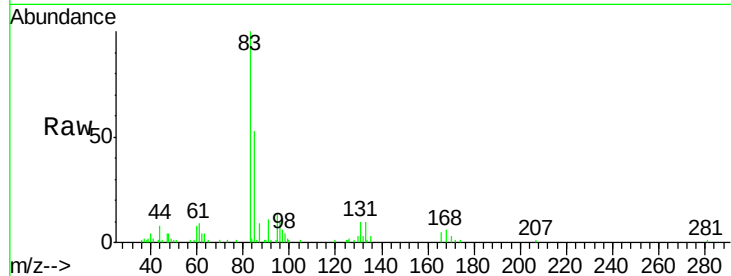
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	83	Resp:	31761
Ion Ratio	Lower	Upper	
83	100		
131	9.6	4.4	13.2
85	52.7	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 11.199 ug/l

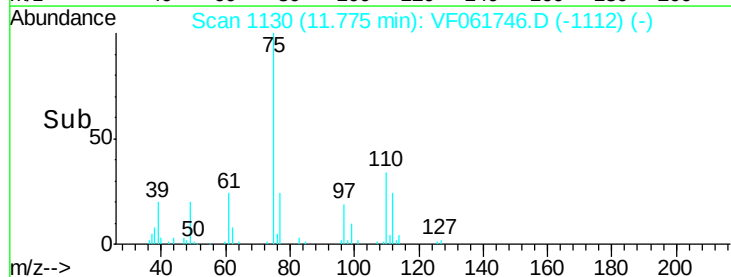
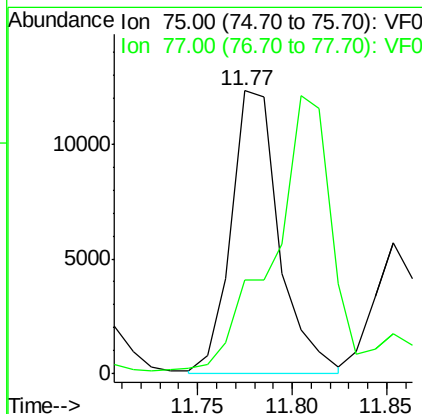
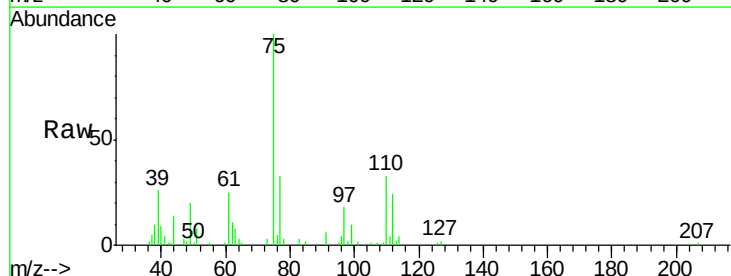
RT: 11.77 min Scan# 1130

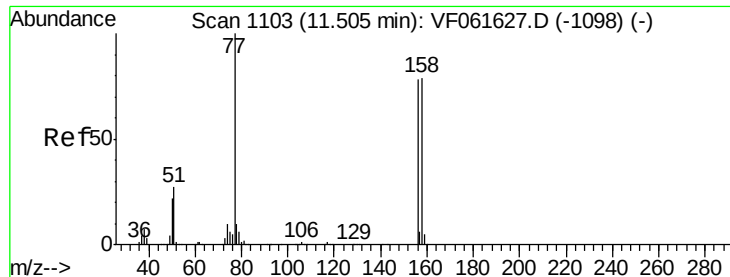
Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	75	Resp:	21794
Ion Ratio	Lower	Upper	
75	100		
77	33.1	16.6	49.7





#77

Bromobenzene

Concen: 11.582 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

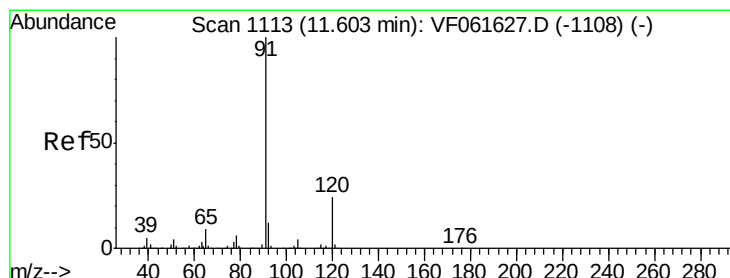
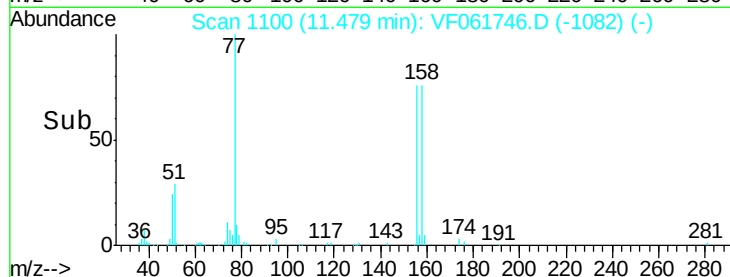
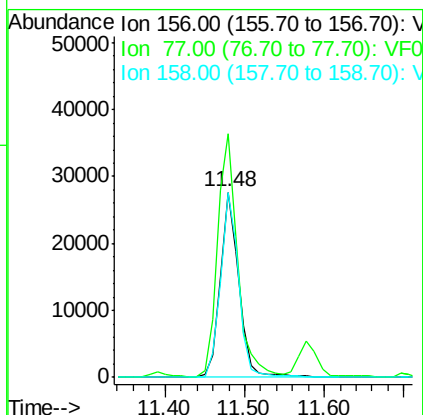
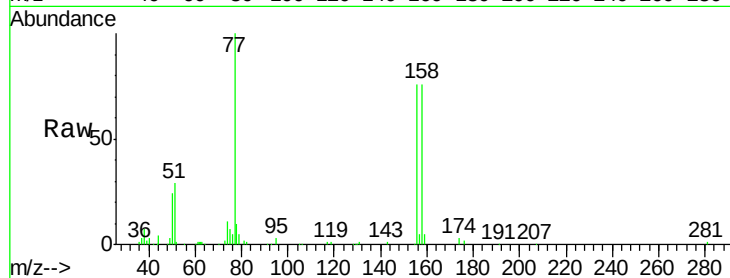
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	131.7	64.3	192.7
158	99.8	50.9	152.7

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#78

n-propylbenzene

Concen: 12.240 ug/l

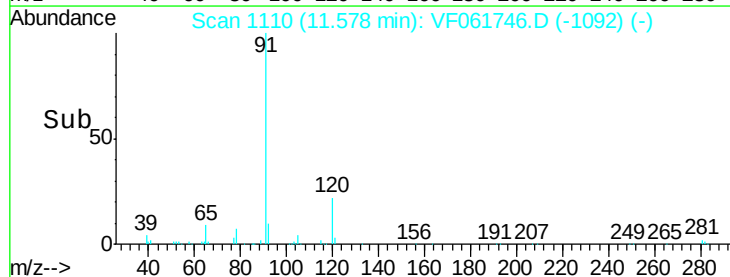
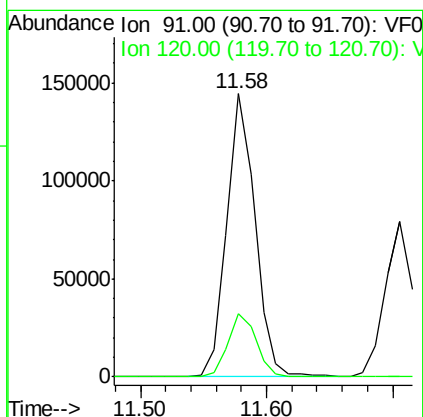
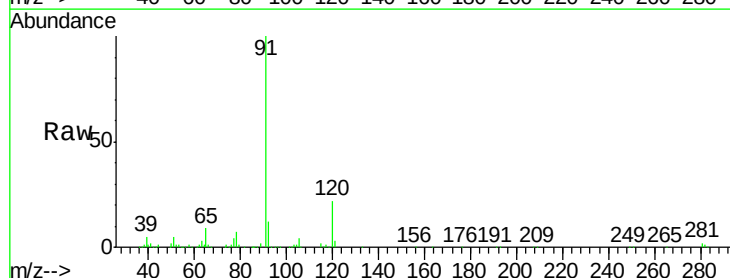
RT: 11.58 min Scan# 1110

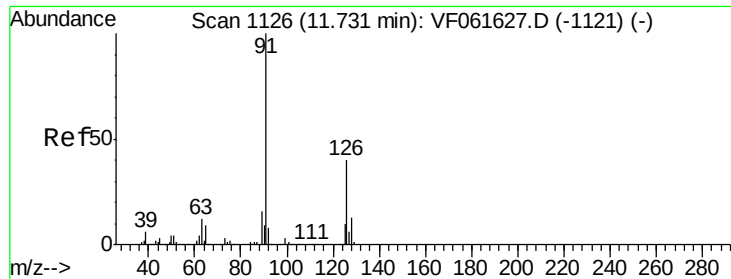
Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.4	12.1	36.3





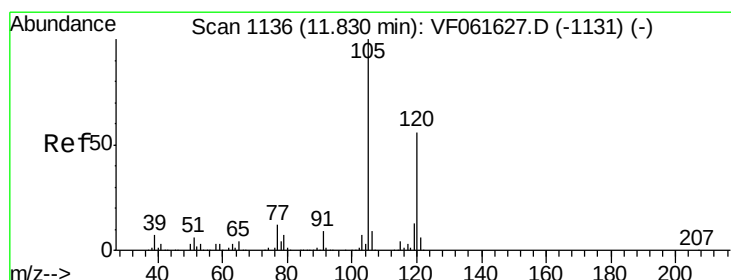
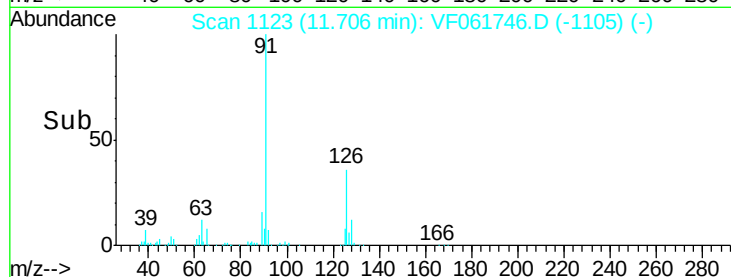
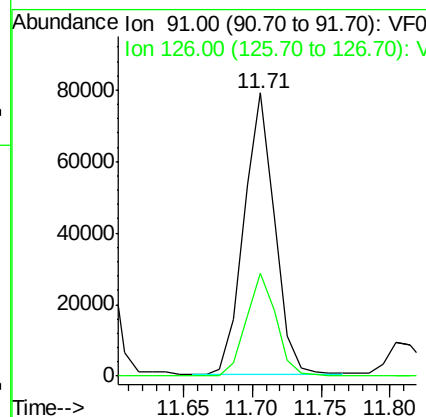
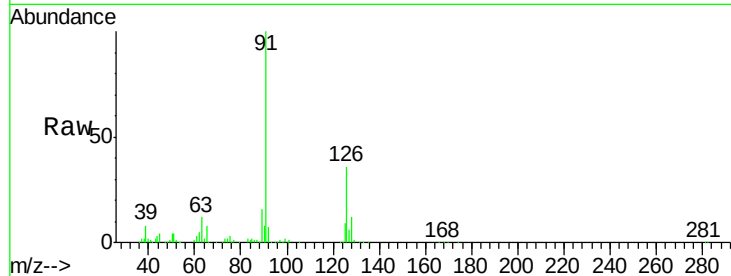
#79
 2-Chlorotoluene
 Concen: 11.972 ug/l
 RT: 11.71 min Scan# 1123
 Delta R.T. -0.03 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Lower	Upper
91	100		
126	36.4	19.8	59.4

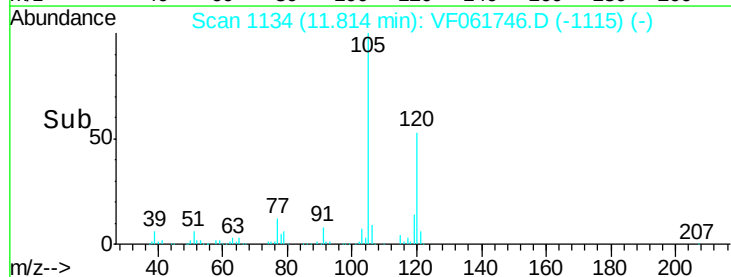
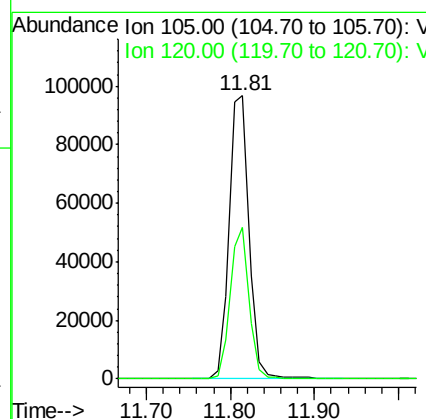
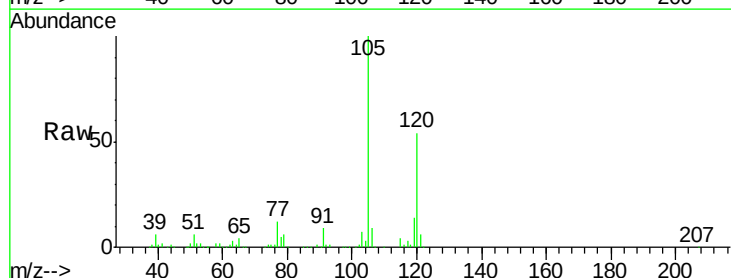
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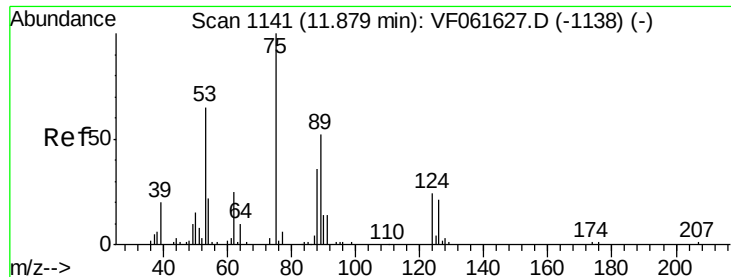
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#80
 1,3,5-Trimethylbenzene
 Concen: 12.452 ug/l
 RT: 11.81 min Scan# 1134
 Delta R.T. -0.02 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.7	27.9	83.6





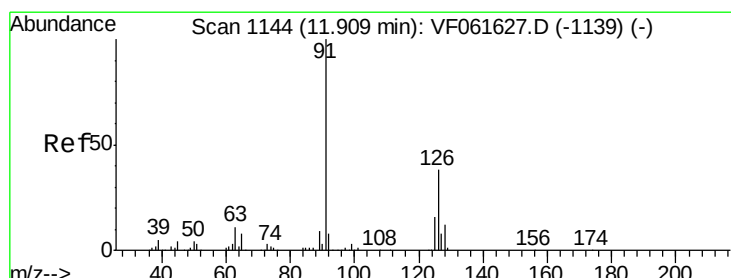
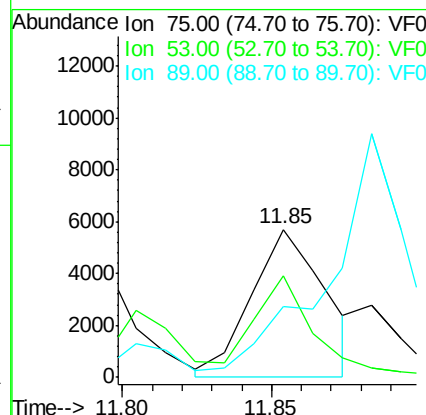
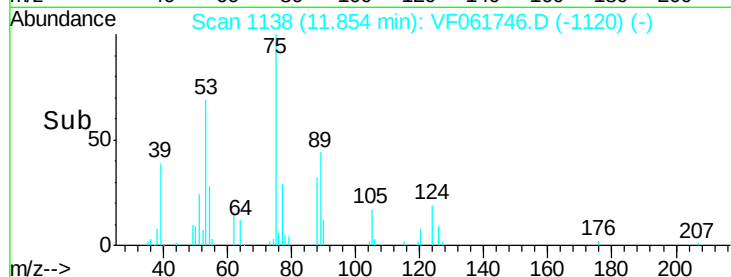
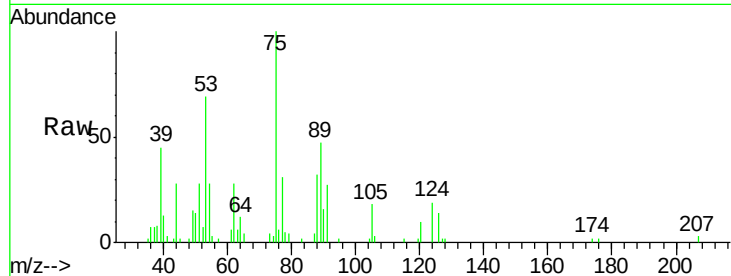
#81
trans-1,4-Dichloro-2-butene
Concen: 10.518 ug/l m
RT: 11.85 min Scan# 1138
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	68.8	53.7	80.5
89	47.4	41.6	62.4

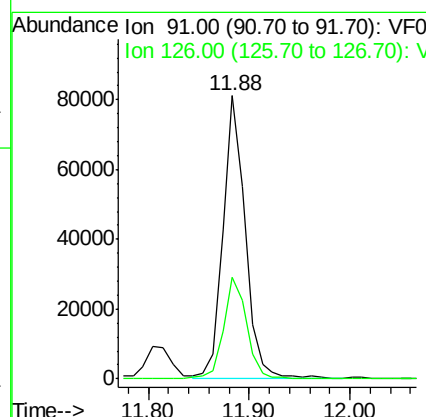
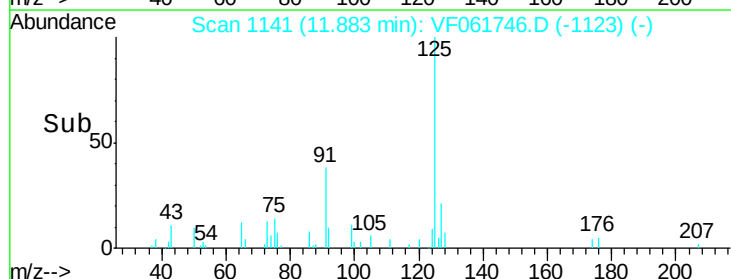
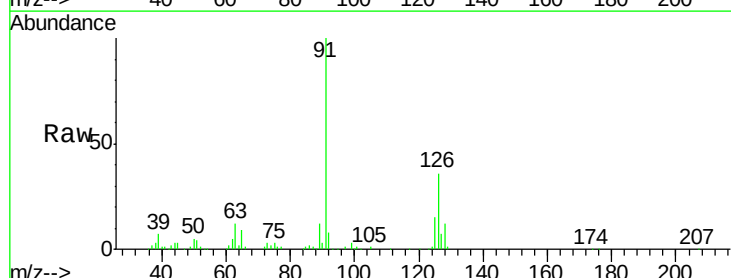
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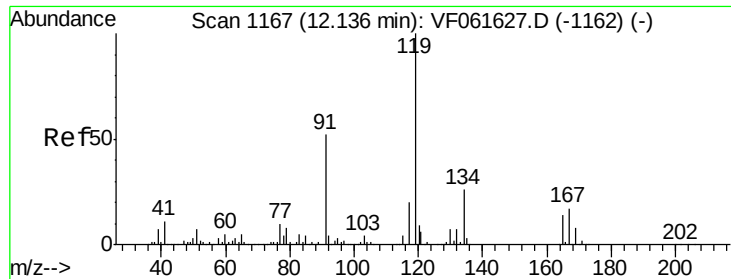
MMDadoda
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#82
4-Chlorotoluene
Concen: 11.589 ug/l
RT: 11.88 min Scan# 1141
Delta R.T. -0.03 min
Lab File: VF061746.D
Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.8	19.1	57.1





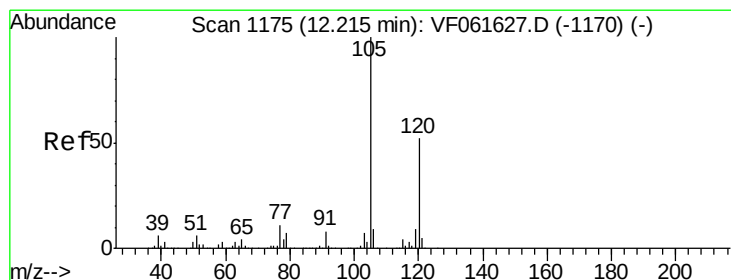
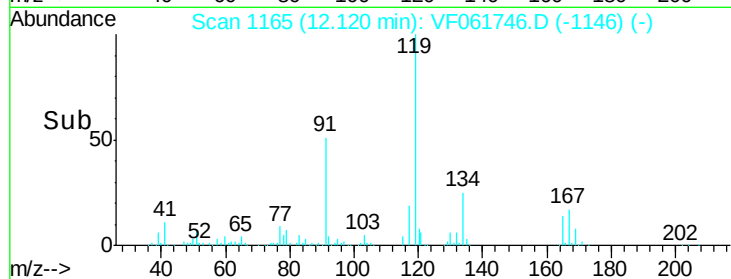
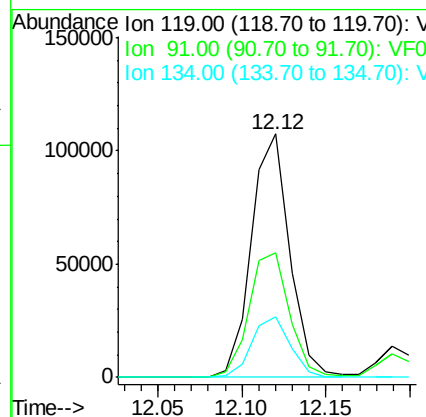
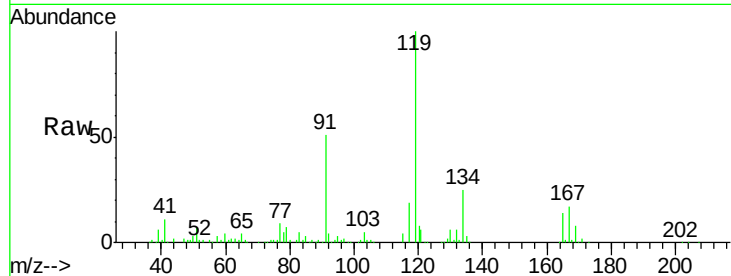
#83
 tert-Butylbenzene
 Concen: 11.996 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.02 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Resp	Lower	Upper
119	100	169668		
91	51.4	26.3	78.8	
134	24.7	12.9	38.7	

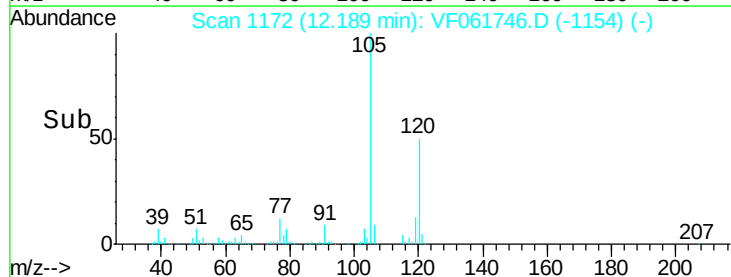
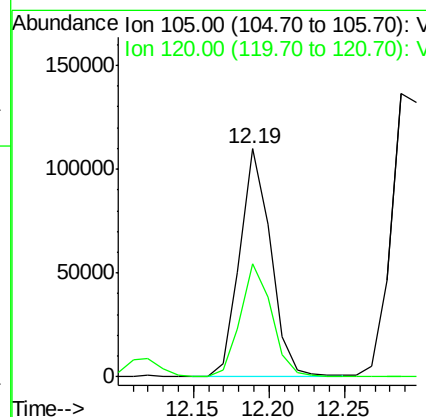
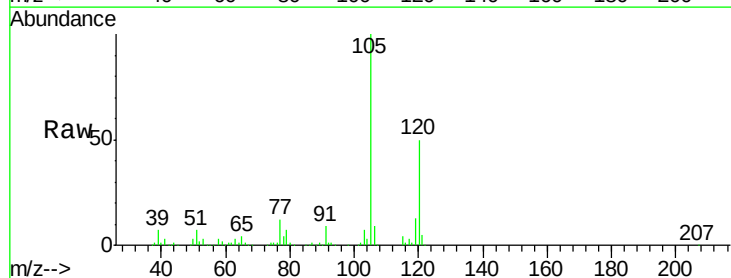
Manual Integrations
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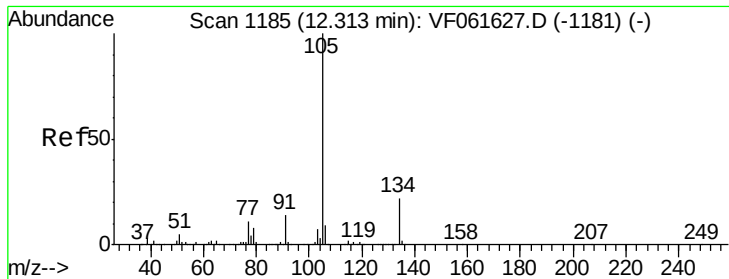
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#84
 1,2,4-Trimethylbenzene
 Concen: 12.341 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.03 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	156558		
120	49.8	26.1	78.3	





#85

sec-Butylbenzene

Concen: 12.079 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:105 Resp: 220917

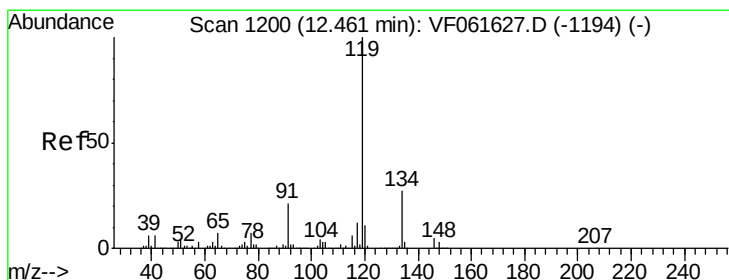
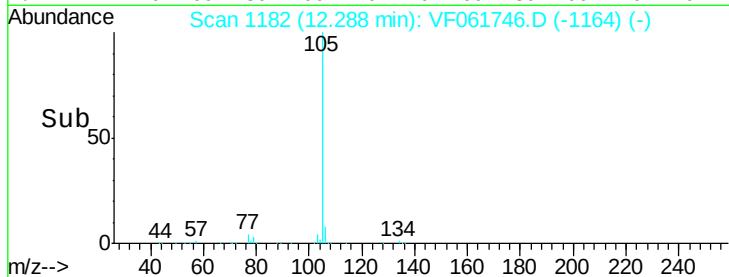
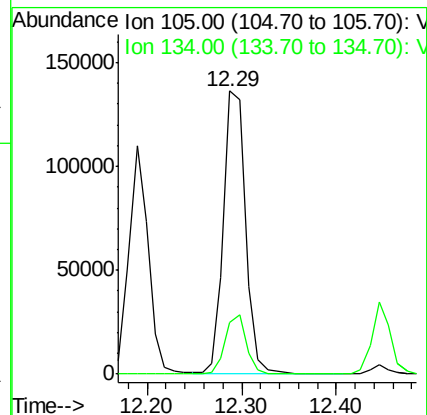
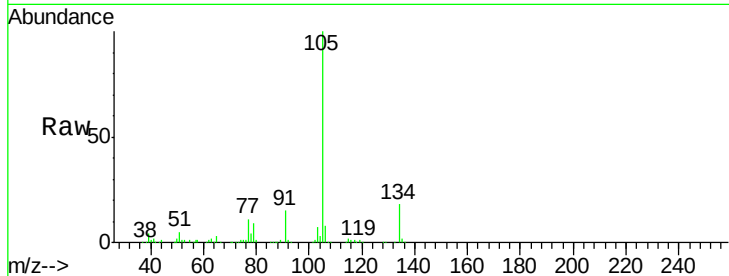
Ion Ratio Lower Upper

105 100

134 18.1 10.8 32.4

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 12.181 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

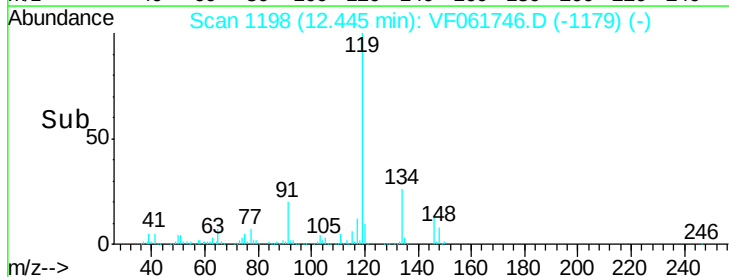
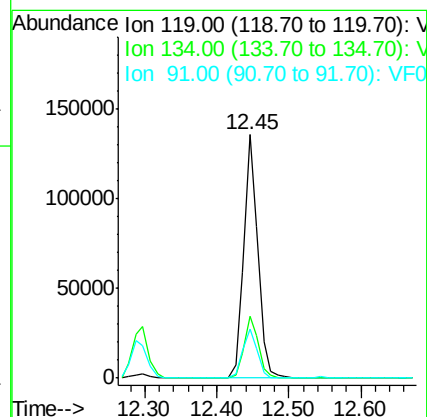
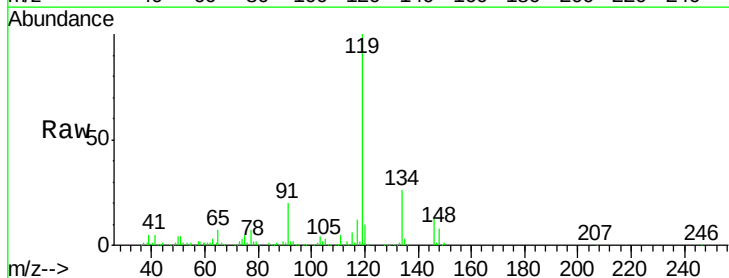
Tgt Ion:119 Resp: 186979

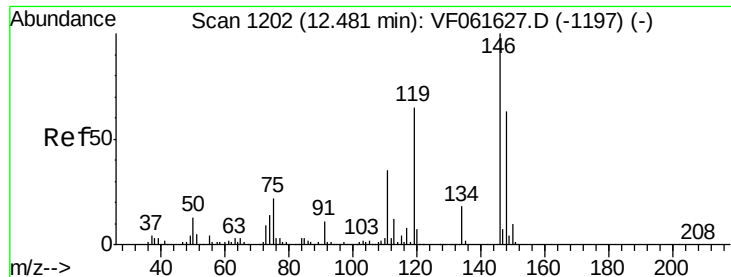
Ion Ratio Lower Upper

119 100

134 25.7 13.7 41.1

91 20.4 10.8 32.4





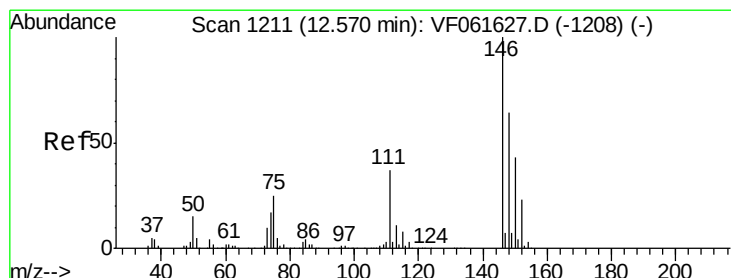
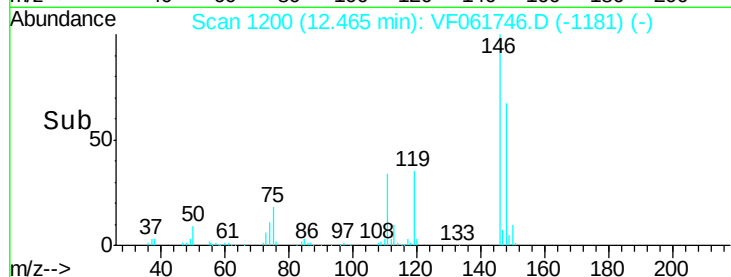
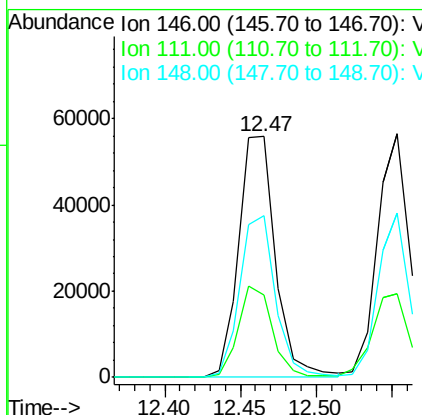
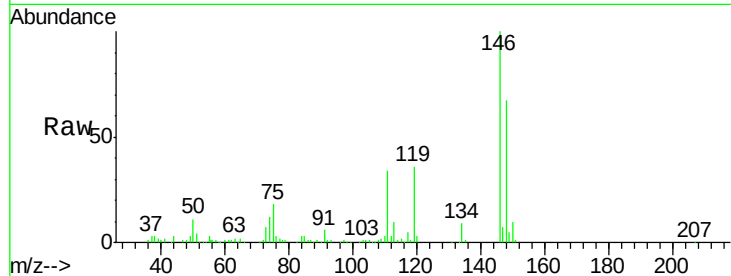
#87
 1,3-Dichlorobenzene
 Concen: 12.293 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.1	17.5	52.6
148	67.2	31.4	94.3

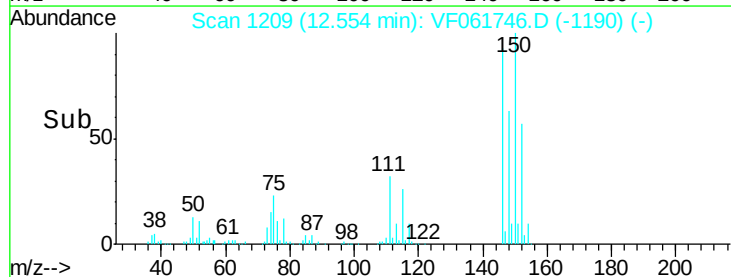
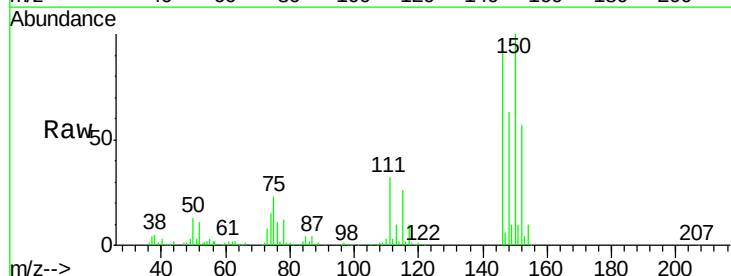
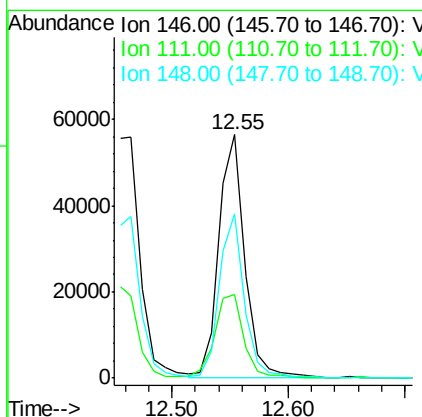
Manual Integrations
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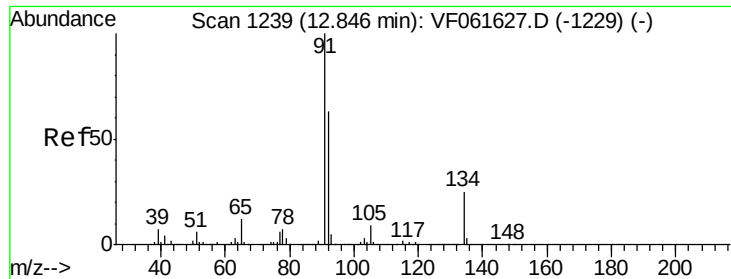
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 11.706 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.5	18.4	55.4
148	67.5	32.2	96.6





#89

n-Butylbenzene

Concen: 12.542 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

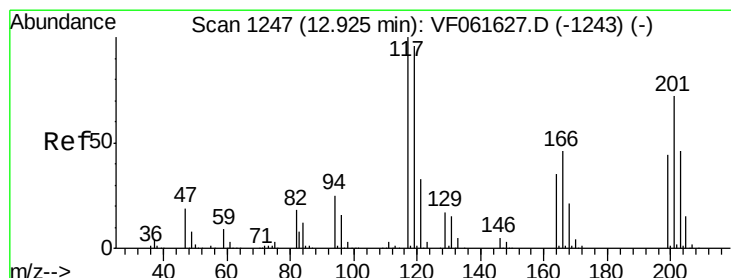
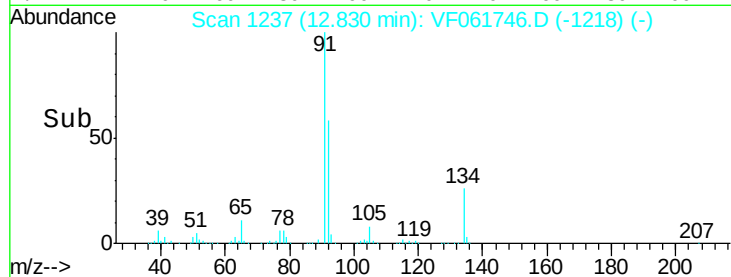
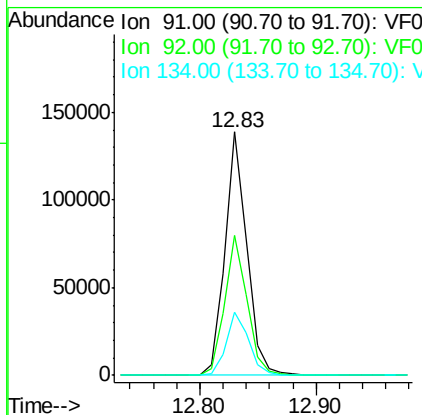
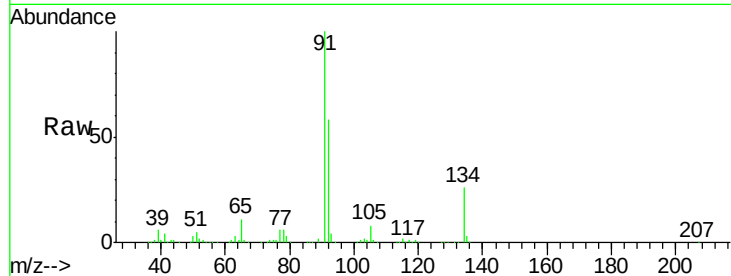
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	91	Resp:	181786
Ion	Ratio	Lower	Upper
91	100		
92	57.5	31.4	94.3
134	26.0	12.3	36.9

Manual Integrations
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#90

Hexachloroethane

Concen: 12.054 ug/l

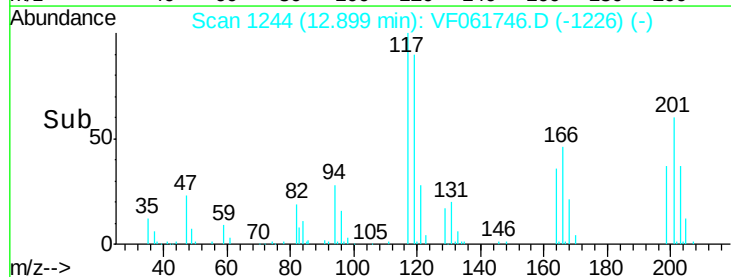
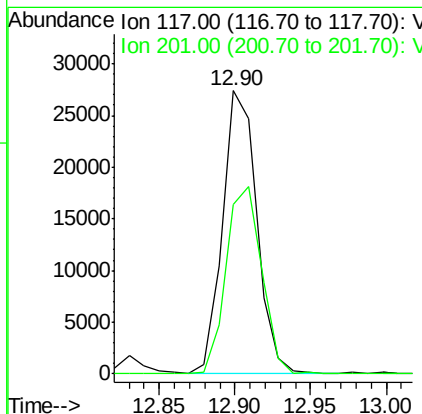
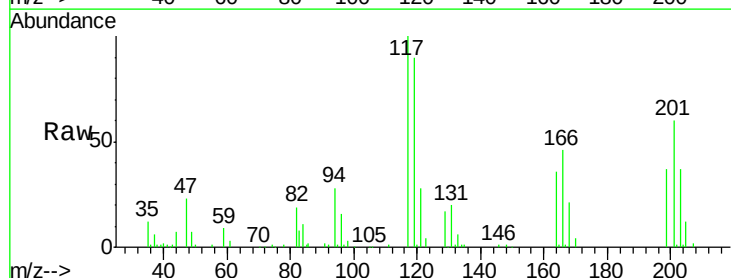
RT: 12.90 min Scan# 1244

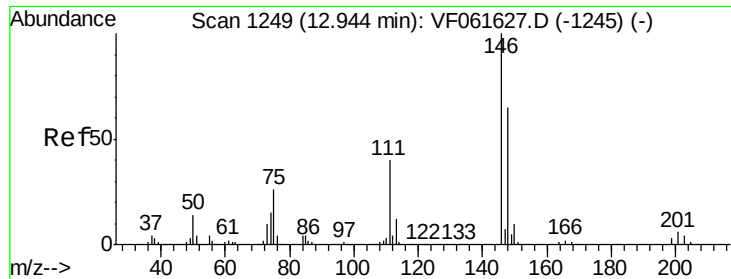
Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	117	Resp:	43032
Ion	Ratio	Lower	Upper
117	100		
201	60.0	36.2	108.6





#91

1,2-Dichlorobenzene

Concen: 11.765 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

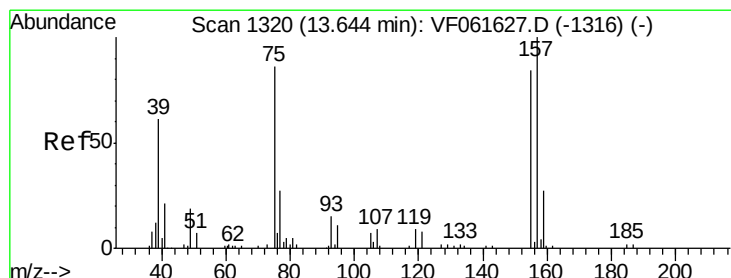
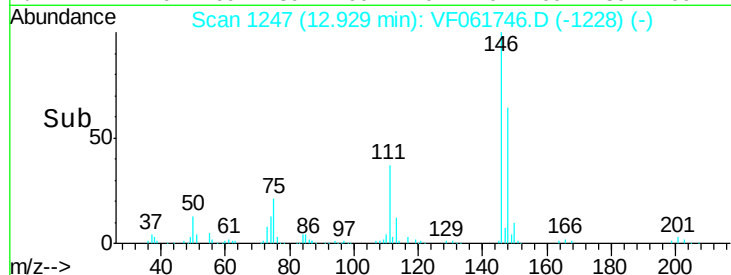
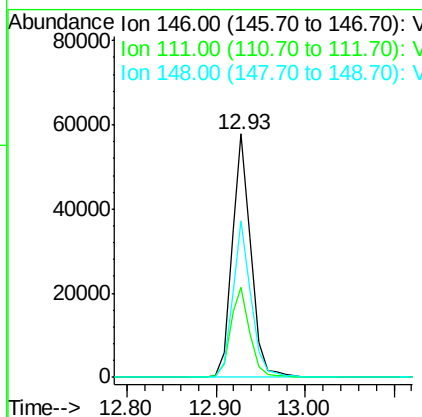
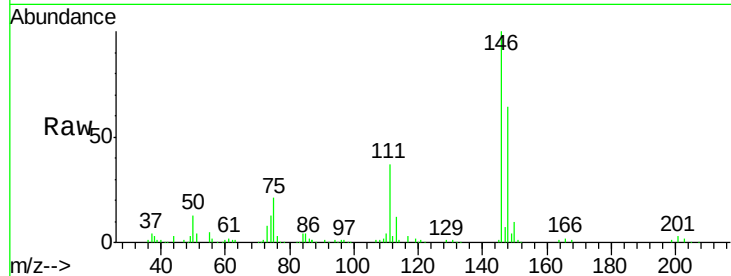
ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion:	146	Resp:	86106
Ion Ratio	Lower	Upper	
146	100		
111	36.9	20.2	60.5
148	64.4	32.3	96.9

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 9.856 ug/l

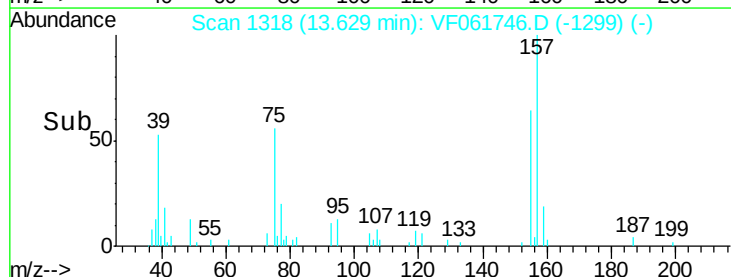
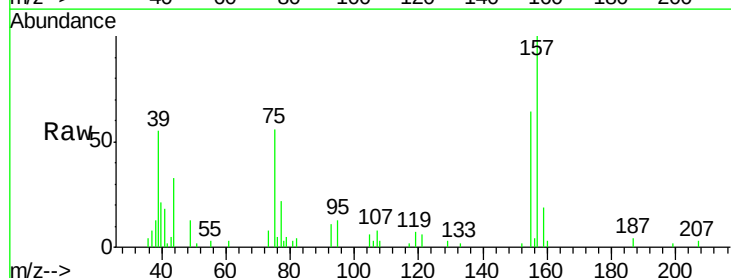
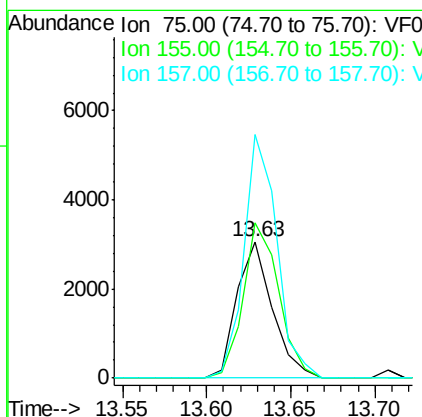
RT: 13.63 min Scan# 1318

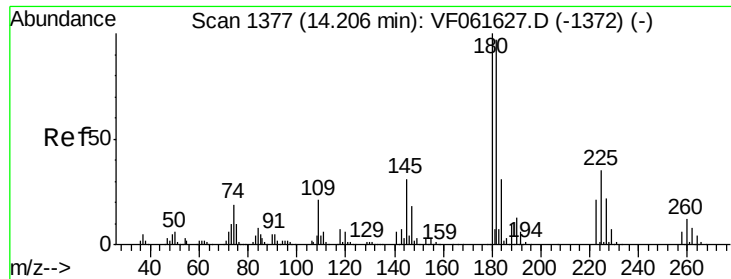
Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	75	Resp:	4473
Ion Ratio	Lower	Upper	
75	100		
155	113.9	48.9	146.8
157	178.9	58.3	174.8#





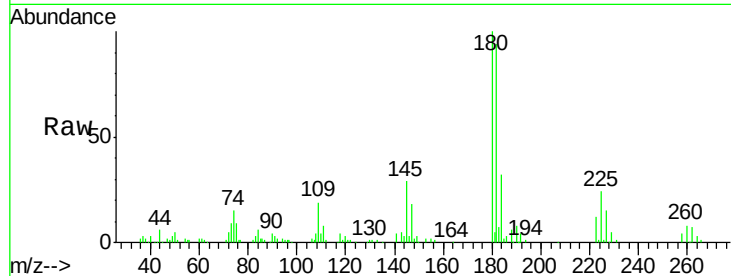
#93
 1,2,4-Trichlorobenzene
 Concen: 11.543 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

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

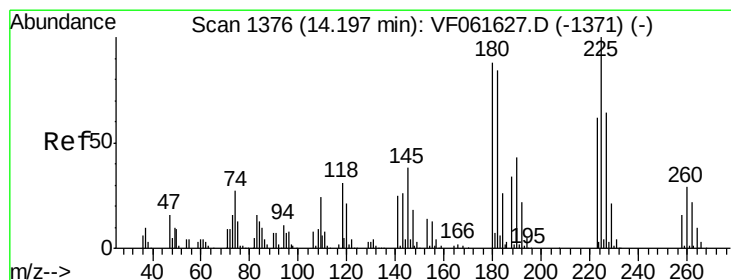
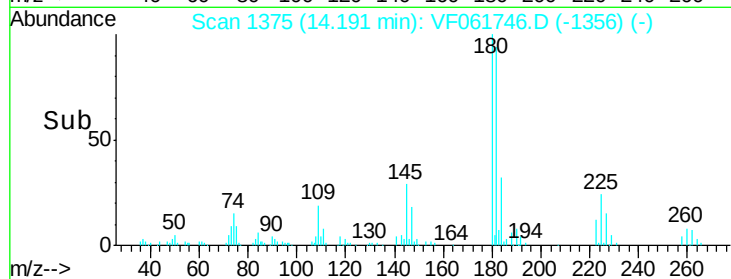
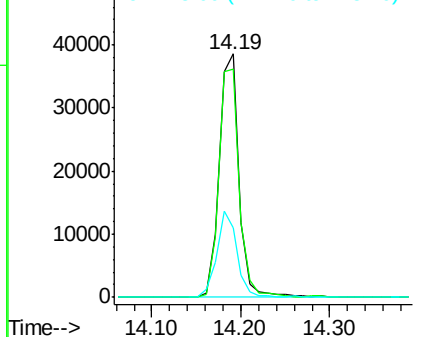
Tot Ion	Ratio	Resp	Lower	Upper
180	100	60557		
182	93.6	48.6	145.9	
145	28.7	15.3	45.9	

Manual Integrations
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MMDadoda
 2/27/2019 3:19:38 PM

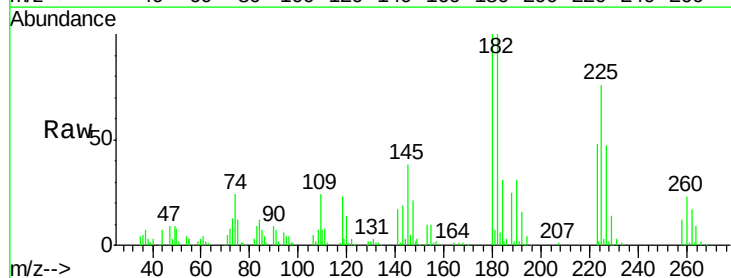


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

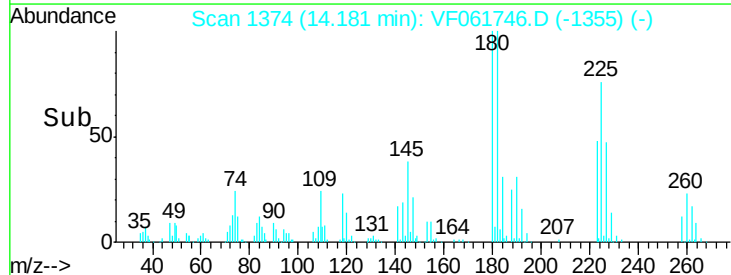
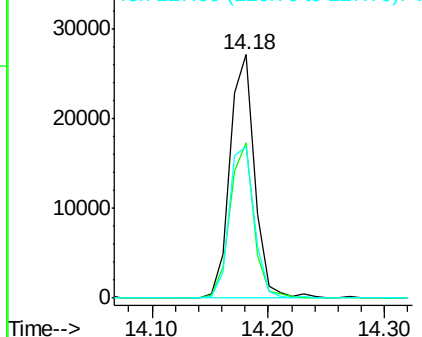


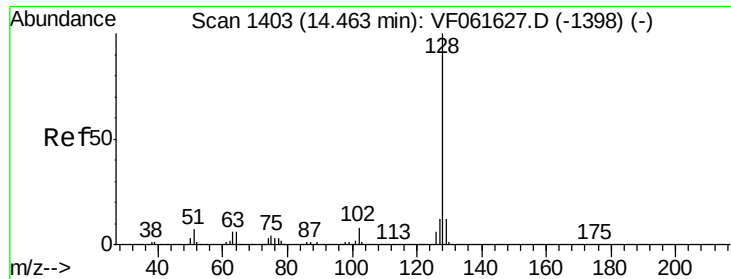
#94
 Hexachlorobutadiene
 Concen: 12.265 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061746.D
 Acq: 26 Feb 2019 17:32

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	39739		
223	64.0	30.9	92.7	
227	62.0	32.1	96.3	



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





#95

Naphthalene

Concen: 10.195 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Instrument :

MSVOA_F

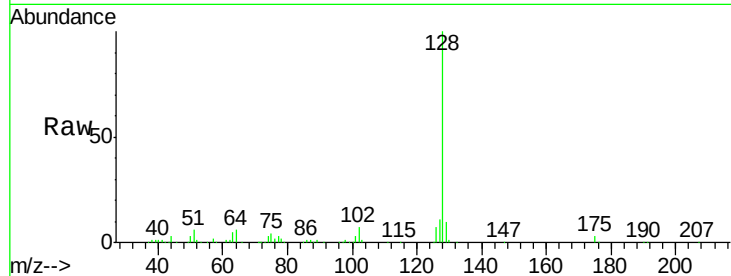
ClientSampleId :

LOQ-SOIL-02-QT1-2019

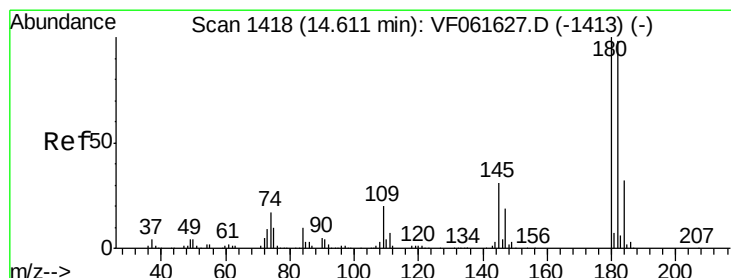
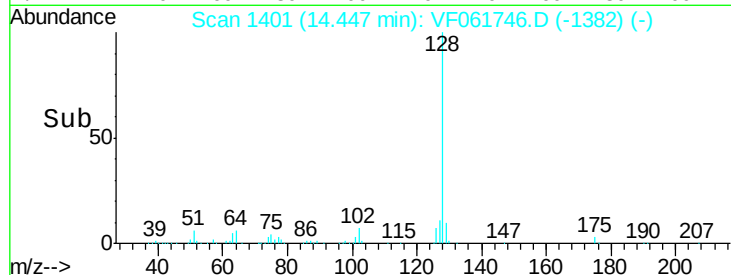
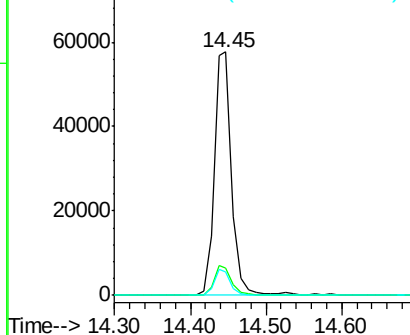
Tot Ion:	128	Resp:	93573
Ion Ratio	Lower	Upper	
128	100		
127	11.4	9.8	14.6
129	9.6	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
2/27/2019 3:19:38 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 10.901 ug/l

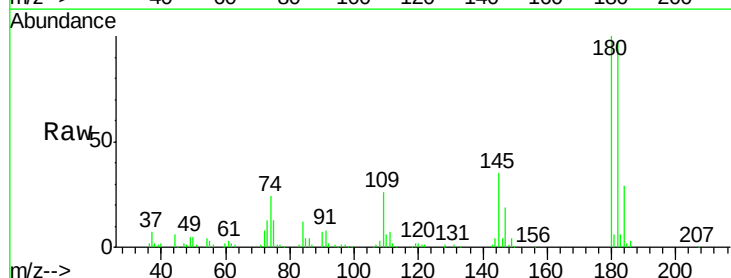
RT: 14.59 min Scan# 1415

Delta R.T. -0.03 min

Lab File: VF061746.D

Acq: 26 Feb 2019 17:32

Tgt Ion:	180	Resp:	52488
Ion Ratio	Lower	Upper	
180	100		
182	97.2	49.0	147.2
145	35.0	15.4	46.1



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

