

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
 Data File : VF061858.D
 Acq On : 5 Mar 2019 21:24
 Operator : VA/AP
 Sample : K1560-03
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 10:59:27 AM

Quant Time: Mar 06 06:34:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	309832	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	481643	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	392934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	231606	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	121612	53.90	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	107.80%	
35) Dibromofluoromethane	4.11	113	170288	50.66	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	101.32%	
50) Toluene-d8	7.55	98	473997	47.44	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	94.88%	
62) 4-Bromofluorobenzene	11.41	95	194936	49.81	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	99.62%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	9596	2.523	ug/l	93
3) Chloromethane	1.10	50	9891	2.683	ug/l #	83
4) Vinyl Chloride	1.13	62	8261	2.361	ug/l #	78
5) Bromomethane	1.34	94	7149	2.998	ug/l #	77
6) Chloroethane	1.39	64	4159	2.500	ug/l #	48
7) Trichlorofluoromethane	1.48	101	11279	2.639	ug/l	91
8) Diethyl Ether	1.63	74	2856	2.938	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.82	101	8659	2.983	ug/l #	82
10) Methyl Iodide	1.91	142	14470m	2.620	ug/l	
11) Tert butyl alcohol	2.57	59	1534	11.978	ug/l #	78
12) 1,1-Dichloroethene	1.79	96	7846	2.961	ug/l #	80
13) Acrolein	2.01	56	2385	14.697	ug/l #	73
14) Allyl chloride	2.10	41	7511	2.573	ug/l #	79
15) Acrylonitrile	2.95	53	6355	15.584	ug/l	86
16) Acetone	2.25	43	6500	13.753	ug/l	100
17) Carbon Disulfide	1.83	76	21521m	2.609	ug/l	
18) Methyl Acetate	2.37	43	8274m	1.197	ug/l	
19) Methyl tert-butyl Ether	2.43	73	11263	2.513	ug/l #	91
20) Methylene Chloride	2.18	84	12796m	Below Cal		
21) trans-1,2-Dichloroethene	2.31	96	7251	2.907	ug/l #	90
22) Diisopropyl ether	2.80	45	21754	2.865	ug/l #	90
23) Vinyl Acetate	3.19	43	42157	12.427	ug/l	98
24) 1,1-Dichloroethane	2.88	63	12689	2.796	ug/l #	94
25) 2-Butanone	4.34	43	13919	14.478	ug/l #	86
26) 2,2-Dichloropropane	3.60	77	4562	2.252	ug/l #	71
27) cis-1,2-Dichloroethene	3.48	96	8734	2.528	ug/l	82
28) Bromochloromethane	3.71	49	4615	2.333	ug/l #	73
29) Tetrahydrofuran	4.09	42	6299	15.192	ug/l #	83
30) Chloroform	3.85	83	14109	2.721	ug/l	85
31) Cyclohexane	3.68	56	11432m	2.405	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	8516	2.665	ug/l #	85
36) 1,1-Dichloropropene	4.28	75	13513	2.970	ug/l	94
37) Ethyl Acetate	4.11	43	6500	3.404	ug/l #	92
38) Carbon Tetrachloride	3.98	117	8978	2.788	ug/l #	80

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	12765	2.375	ug/l	95
40) Benzene	4.63	78	29379	2.470	ug/l	95
41) Methacrylonitrile	4.75	41	2452	2.344	ug/l #	83
42) 1,2-Dichloroethane	4.94	62	8436	2.846	ug/l	100
43) Isopropyl Acetate	6.97	43	5832	2.478	ug/l	100
44) Trichloroethene	5.51	130	9488	2.567	ug/l	67
45) 1,2-Dichloropropane	6.23	63	6393	2.261	ug/l #	67
46) Dibromomethane	6.08	93	4182	2.350	ug/l #	85
47) Bromodichloromethane	6.38	83	10154	2.582	ug/l #	96
48) Methyl methacrylate	6.72	41	4012	2.693	ug/l	96
49) 1,4-Dioxane	6.71	88	609	44.718	ug/l #	88
51) 4-Methyl-2-Pentanone	8.26	43	21996	13.520	ug/l	100
52) Toluene	7.62	92	16489	2.344	ug/l	97
53) t-1,3-Dichloropropene	8.28	75	9183	2.829	ug/l #	82
54) cis-1,3-Dichloropropene	7.30	75	10823	2.418	ug/l #	88
55) 1,1,2-Trichloroethane	8.49	97	4785	2.361	ug/l #	80
56) Ethyl methacrylate	8.63	69	5638	2.468	ug/l	91
57) 1,3-Dichloropropane	8.85	76	7712	2.326	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.29	63	4366	12.082	ug/l #	73
59) 2-Hexanone	9.49	43	14971	12.756	ug/l	88
60) Dibromochloromethane	8.71	129	6799	2.353	ug/l	100
61) 1,2-Dibromoethane	8.98	107	5099	2.288	ug/l	97
64) Tetrachloroethene	8.15	164	9185	3.042	ug/l	95
65) Chlorobenzene	9.80	112	19965	2.645	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	7852	2.685	ug/l	82
67) Ethyl Benzene	9.90	91	33982	2.716	ug/l	93
68) m/p-Xylenes	10.13	106	24663	5.145	ug/l	92
69) o-Xylene	10.71	106	12805	2.481	ug/l	96
70) Styrene	10.78	104	20008	2.754	ug/l	95
71) Bromoform	10.76	173	3973	2.570	ug/l	92
73) Isopropylbenzene	11.12	105	35973	2.256	ug/l	99
74) N-amyl acetate	11.38	43	9696	2.641	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	11.69	83	7003	2.643	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	5038	2.785	ug/l	82
77) Bromobenzene	11.49	156	8594	2.240	ug/l	94
78) n-propylbenzene	11.59	91	47264	2.625	ug/l	96
79) 2-Chlorotoluene	11.72	91	27987	2.719	ug/l	91
80) 1,3,5-Trimethylbenzene	11.82	105	31919	2.493	ug/l	86
81) trans-1,4-Dichloro-2-buten	11.87	75	1678m	2.029	ug/l	
82) 4-Chlorotoluene	11.90	91	28227	2.681	ug/l	100
83) tert-Butylbenzene	12.13	119	32639	2.401	ug/l	84
84) 1,2,4-Trimethylbenzene	12.20	105	30860	2.459	ug/l	93
85) sec-Butylbenzene	12.30	105	44608	2.522	ug/l	100
86) p-Isopropyltoluene	12.46	119	37886	2.520	ug/l	94
87) 1,3-Dichlorobenzene	12.47	146	21450	2.944	ug/l	94
88) 1,4-Dichlorobenzene	12.56	146	18987	2.701	ug/l	97
89) n-Butylbenzene	12.85	91	35488	2.470	ug/l	97
90) Hexachloroethane	12.91	117	8026	2.218	ug/l	77
91) 1,2-Dichlorobenzene	12.94	146	18900	2.738	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.63	75	1140	6.058	ug/l #	43

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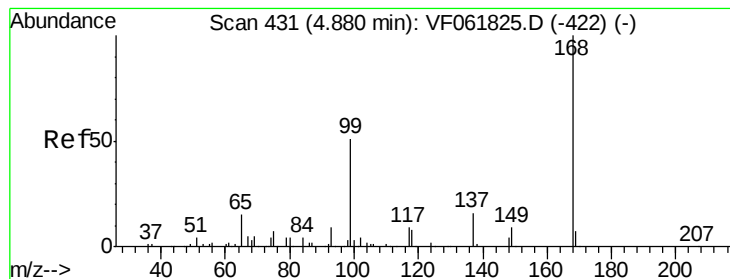
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	13493	2.788	ug/l	92
94) Hexachlorobutadiene	14.19	225	7992	2.385	ug/l	92
95) Naphthalene	14.45	128	18871	2.189	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	11368	2.544	ug/l	86

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061858.D

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Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:168 Resp: 309832

Ion Ratio Lower Upper

168 100

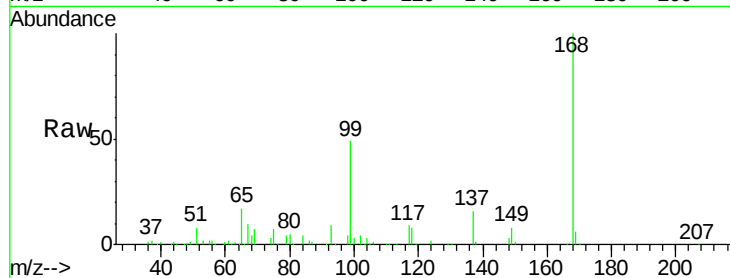
99 48.9 40.8 61.2

Manual Integrations

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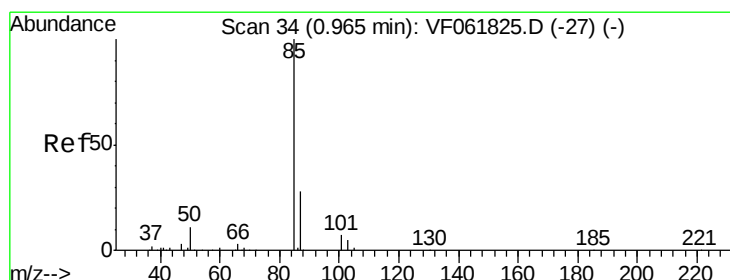
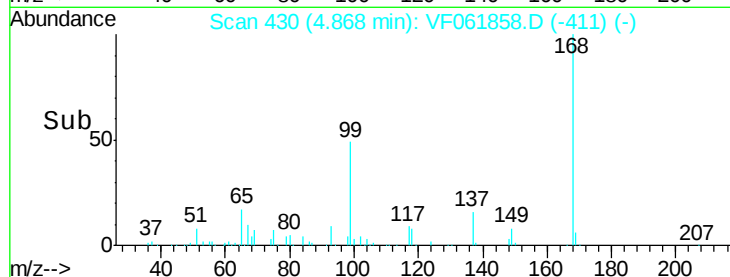
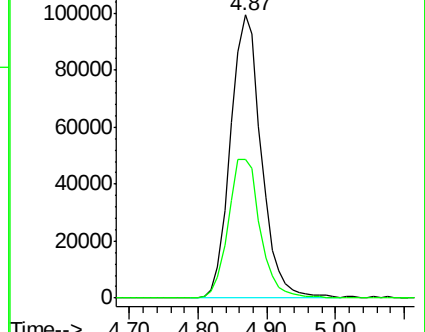
MMDadoda

3/8/2019 10:59:27 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 2.523 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061858.D

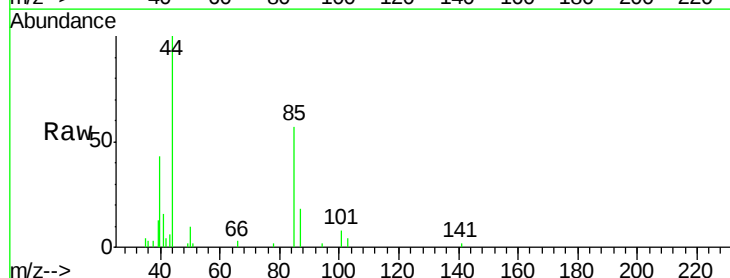
Acq: 5 Mar 2019 21:24

Tgt Ion: 85 Resp: 9596

Ion Ratio Lower Upper

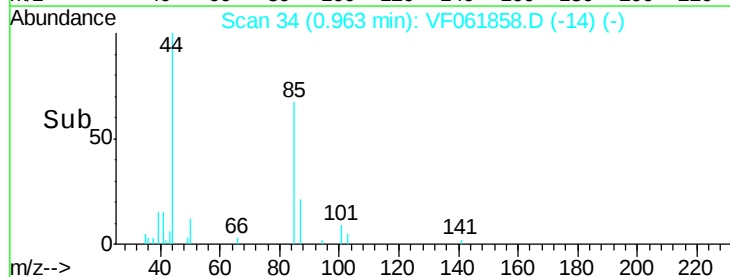
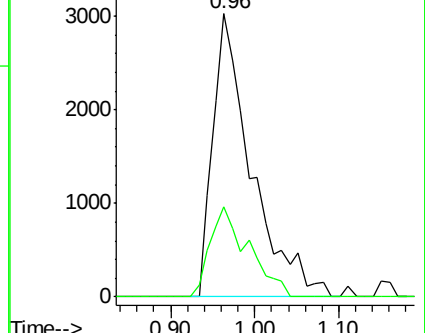
85 100

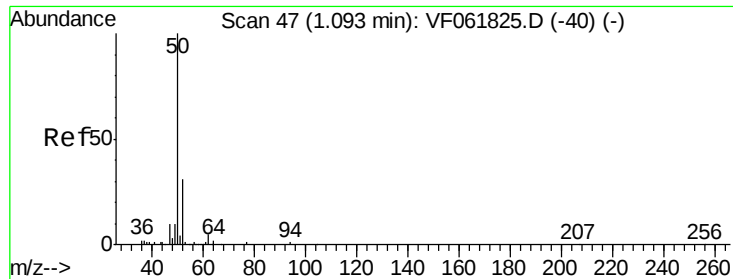
87 32.0 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 2.683 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 50 Resp: 9891

Ion Ratio Lower Upper

50 100

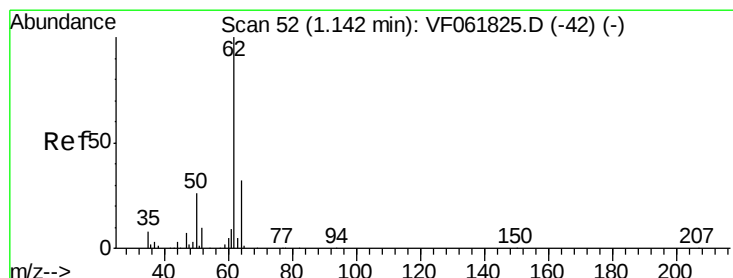
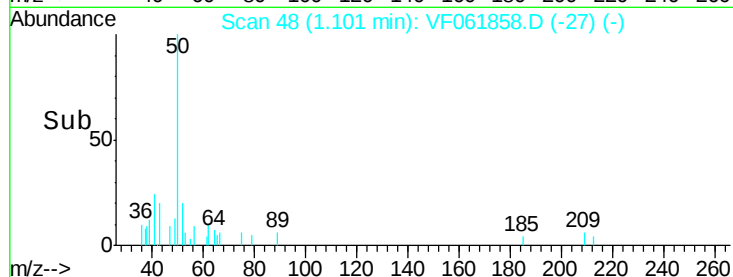
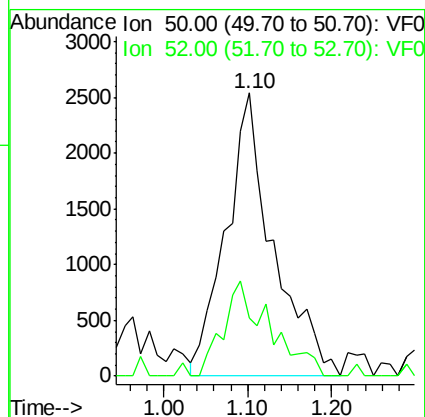
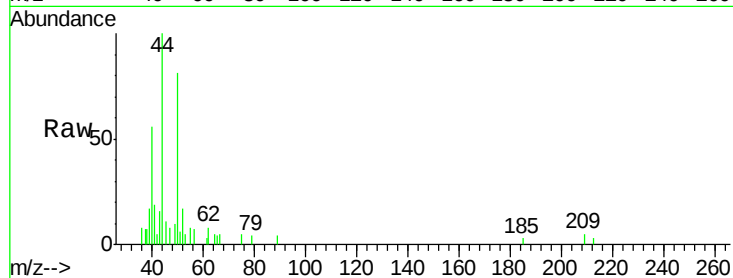
52 20.5 23.8 35.8#

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.361 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061858.D

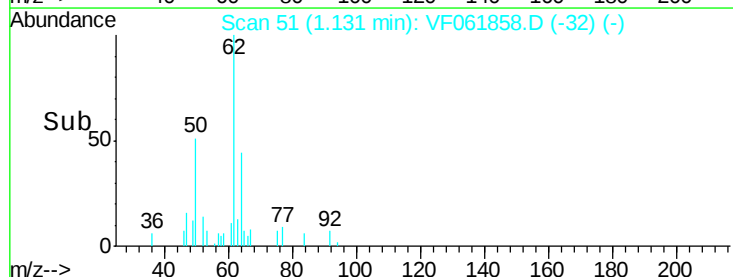
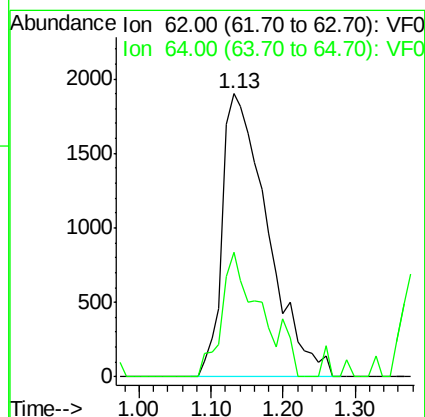
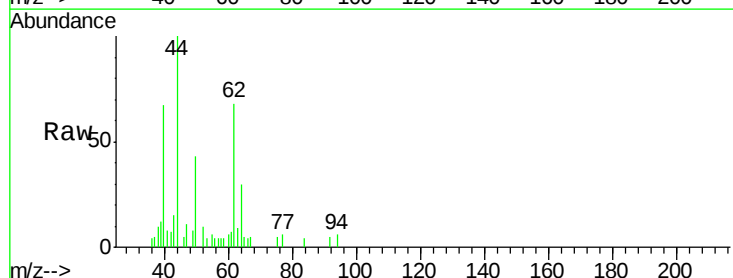
Acq: 5 Mar 2019 21:24

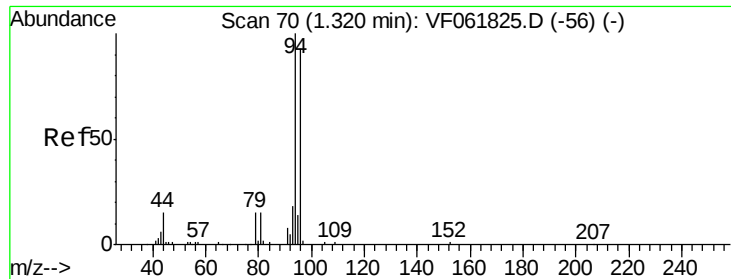
Tgt Ion: 62 Resp: 8261

Ion Ratio Lower Upper

62 100

64 43.9 25.2 37.8#





#5

Bromomethane

Concen: 2.998 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

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Tot Ion: 94 Resp: 7149

Ion Ratio Lower Upper

94 100

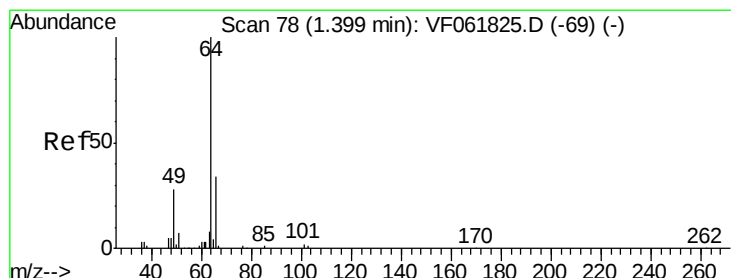
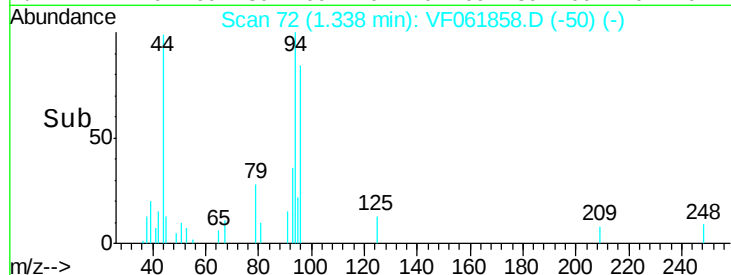
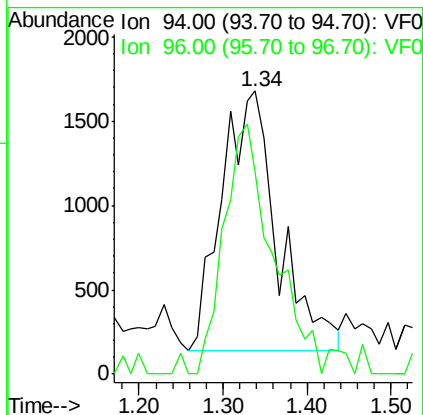
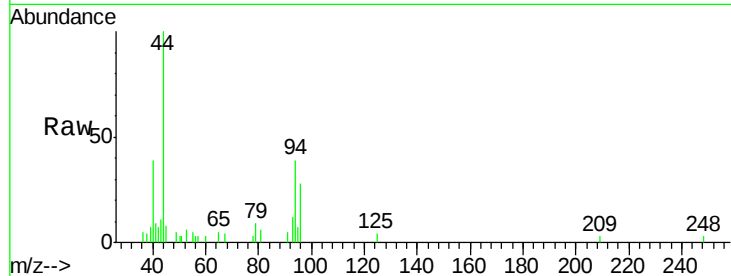
96 71.9 75.2 112.8#

Manual Integrations

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#6

Chloroethane

Concen: 2.500 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061858.D

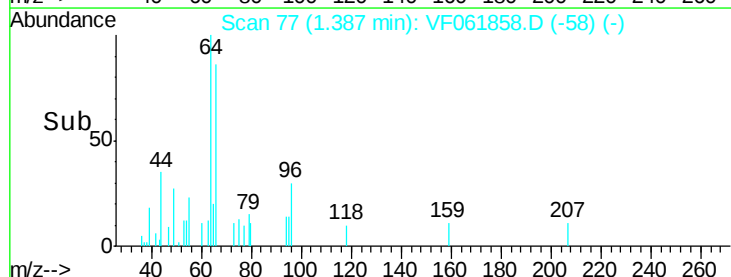
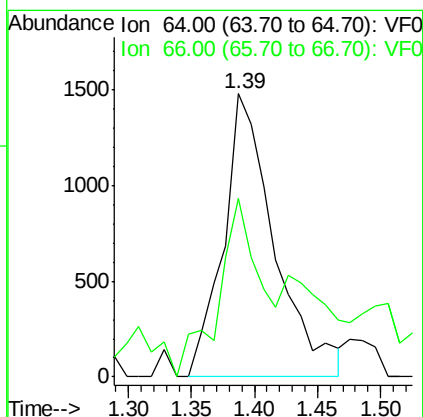
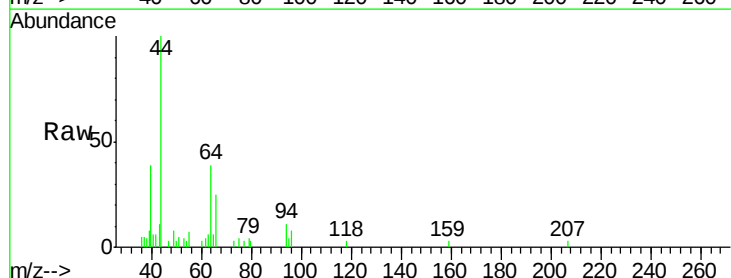
Acq: 5 Mar 2019 21:24

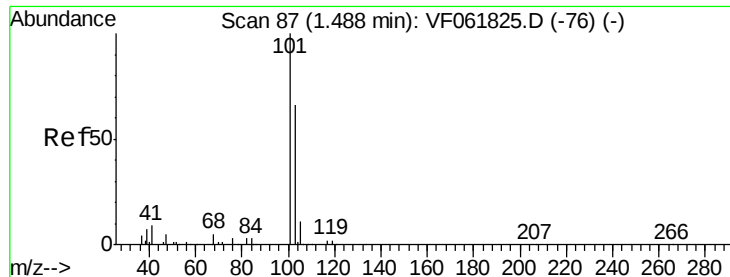
Tgt Ion: 64 Resp: 4159

Ion Ratio Lower Upper

64 100

66 63.2 27.0 40.4#





#7

Trichlorofluoromethane

Concen: 2.639 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

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Tot Ion:101 Resp: 11279

Ion Ratio Lower Upper

101 100

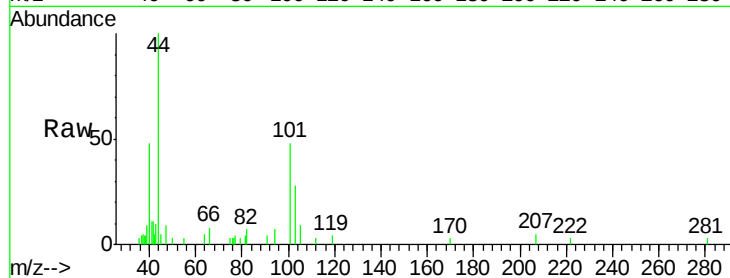
103 58.6 52.8 79.2

Manual Integrations

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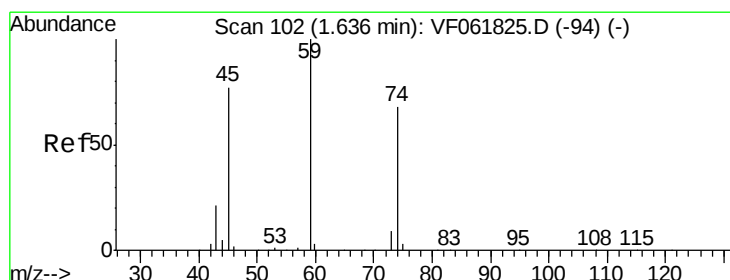
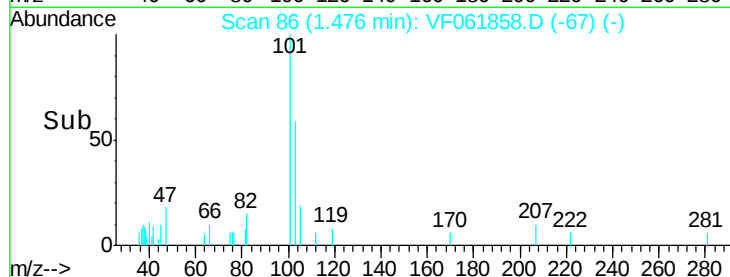
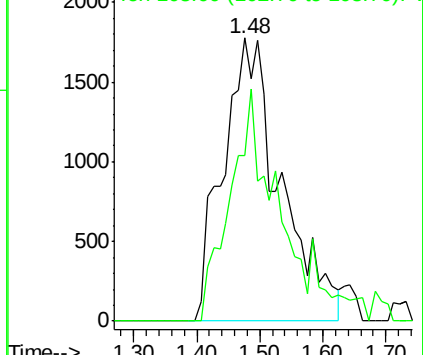
MMDadoda

3/8/2019 10:59:27 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 2.938 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF061858.D

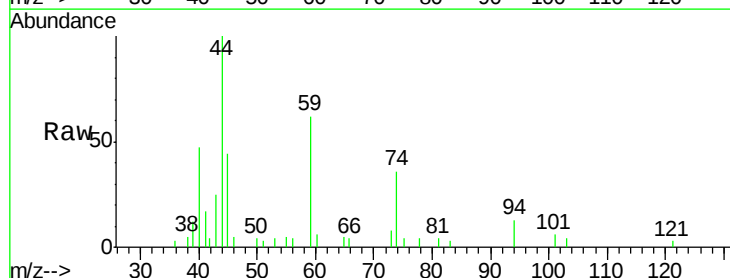
Acq: 5 Mar 2019 21:24

Tgt Ion: 74 Resp: 2856

Ion Ratio Lower Upper

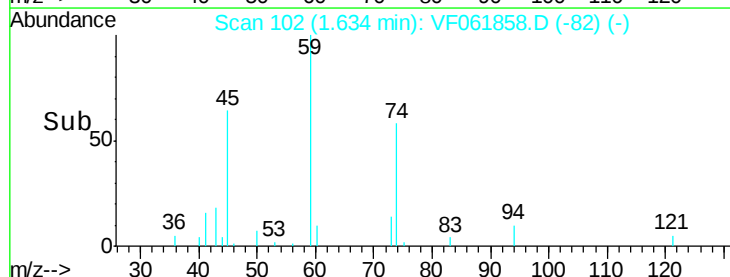
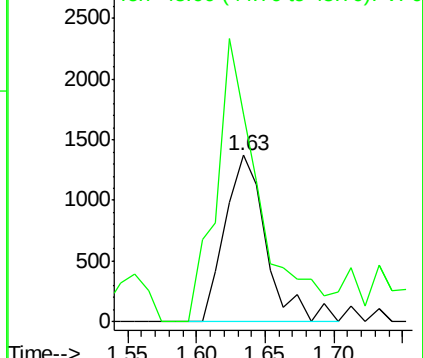
74 100

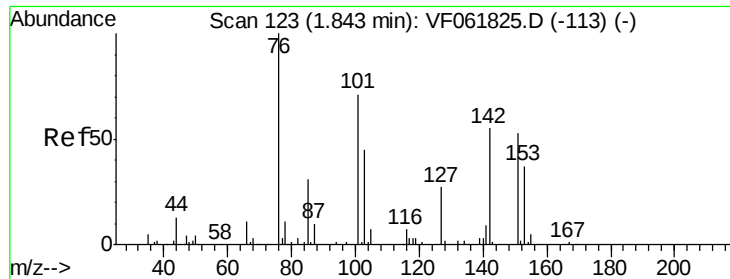
45 124.8 57.2 171.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.983 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061858.D

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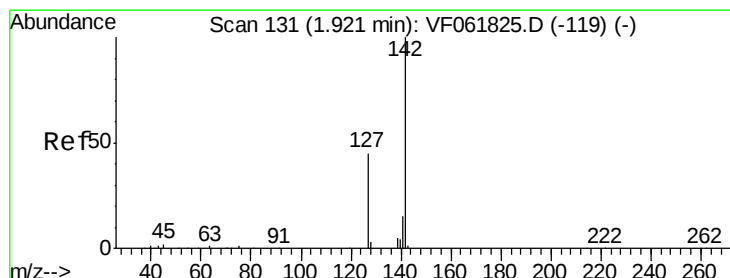
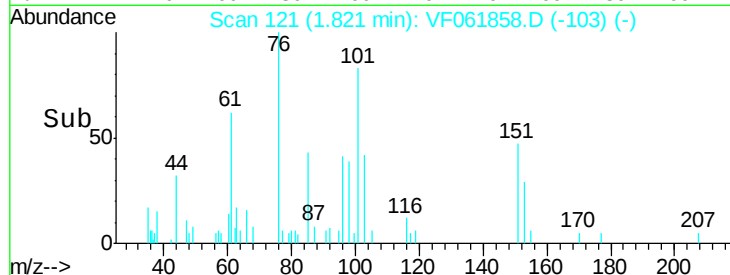
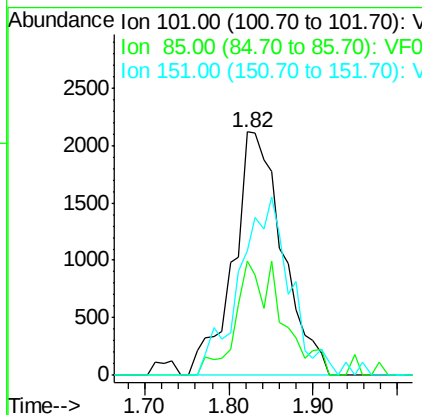
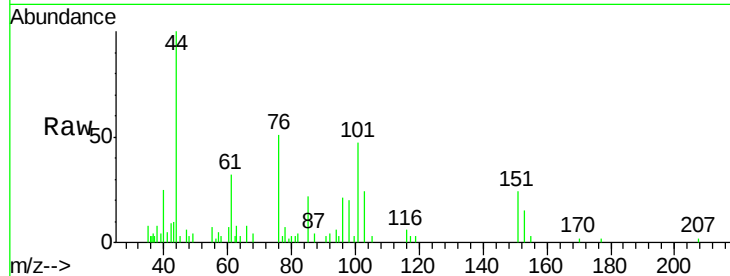
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	101	Resp:	8659
Ion Ratio	Lower	Upper	
101	100		
85	46.7	34.0	51.0
151	51.0	57.3	85.9#

Manual Integrations
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MMDadoda
3/8/2019 10:59:27 AM



#10

Methyl Iodide

Concen: 2.620 ug/l m

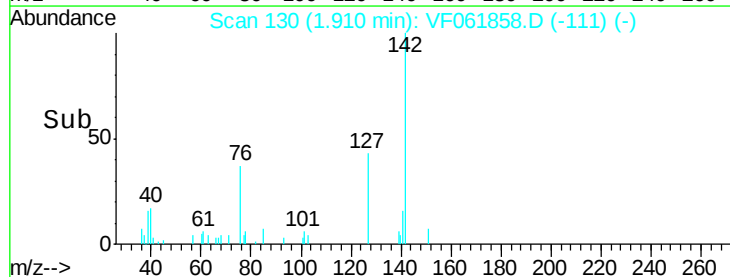
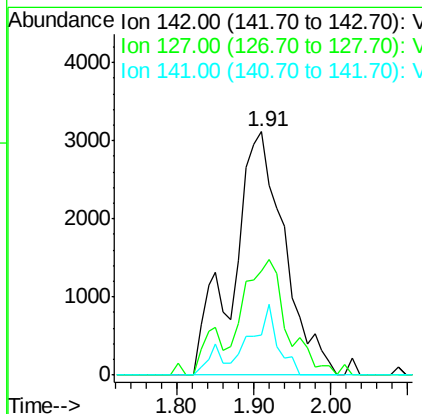
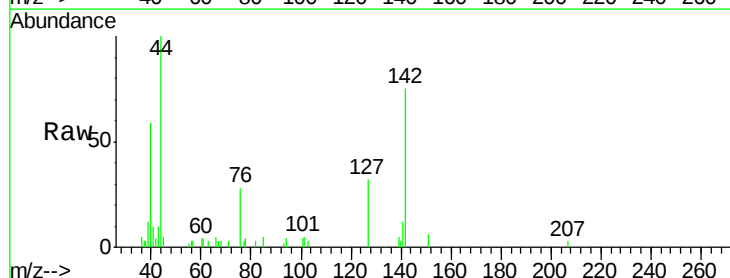
RT: 1.91 min Scan# 130

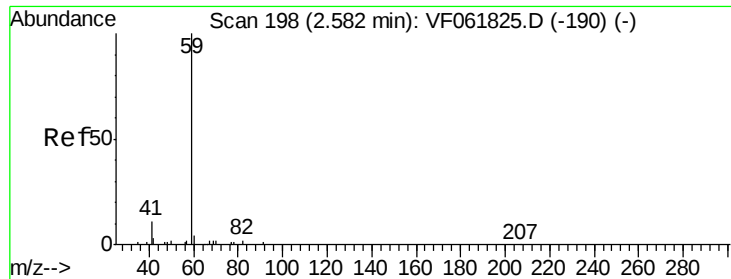
Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion:	142	Resp:	14470
Ion Ratio	Lower	Upper	
142	100		
127	42.7	35.8	53.6
141	16.5	11.7	17.5





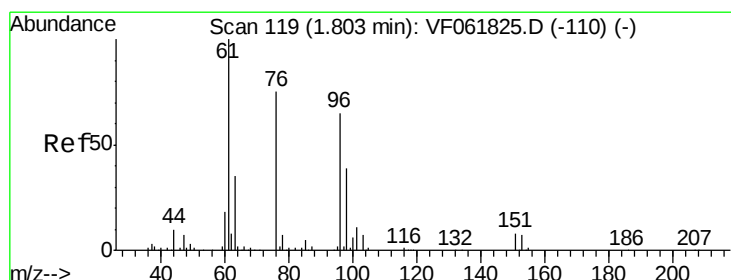
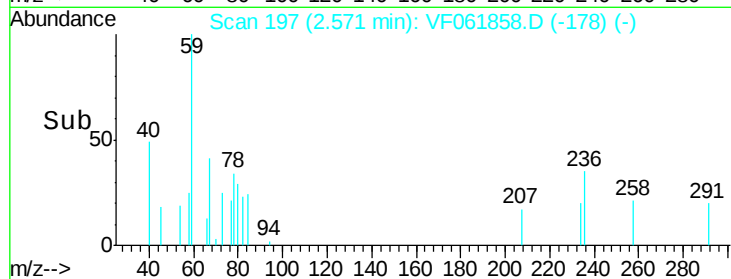
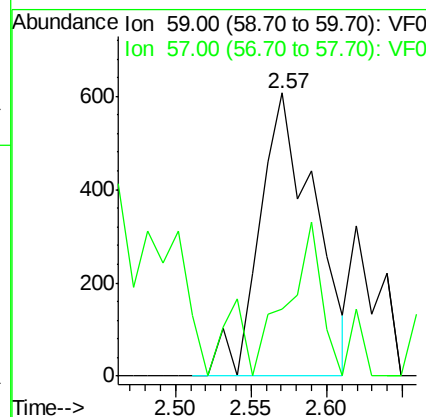
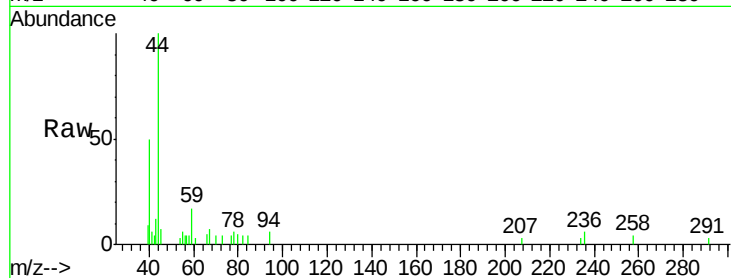
#11
Tert butyl alcohol
Concen: 11.978 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 59 Resp: 1534
Ion Ratio Lower Upper
59 100
57 23.7 11.8 17.6#

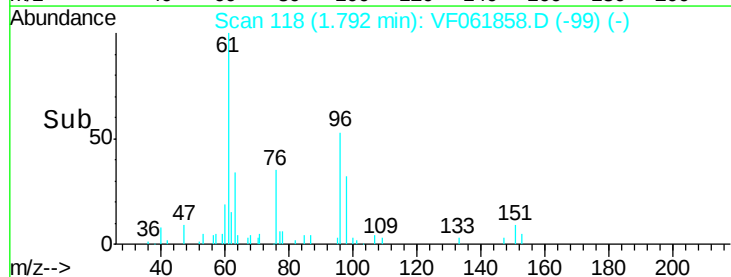
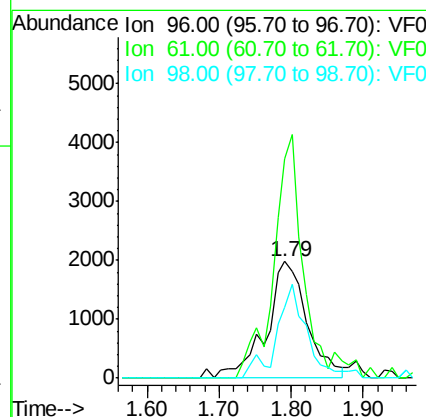
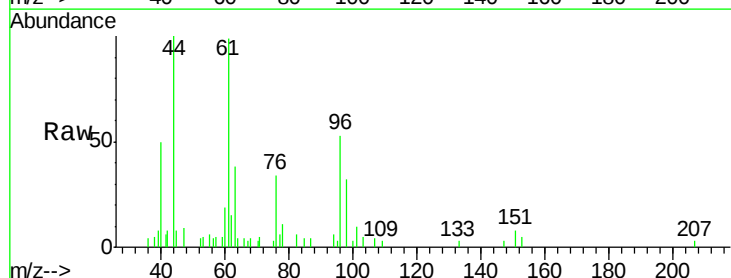
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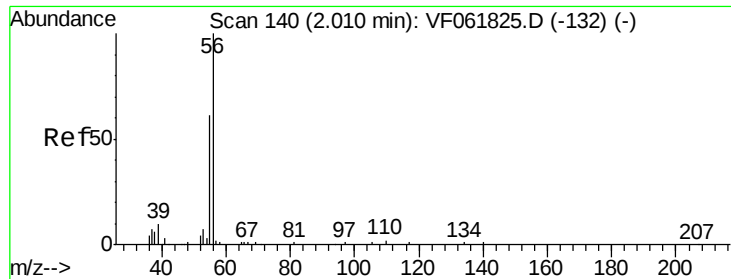
MMDadoda
3/8/2019 10:59:27 AM



#12
1,1-Dichloroethene
Concen: 2.961 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 96 Resp: 7846
Ion Ratio Lower Upper
96 100
61 188.2 122.5 183.7#
98 60.6 47.1 70.7





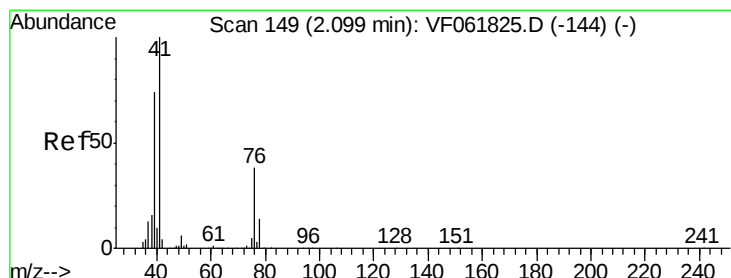
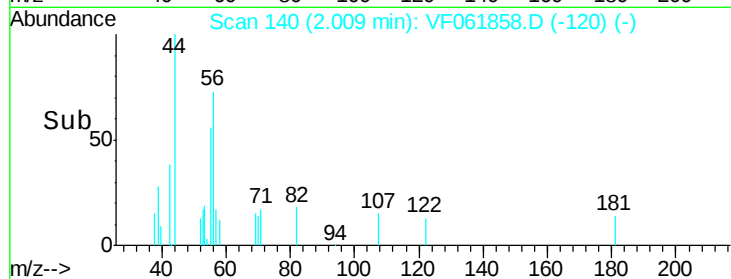
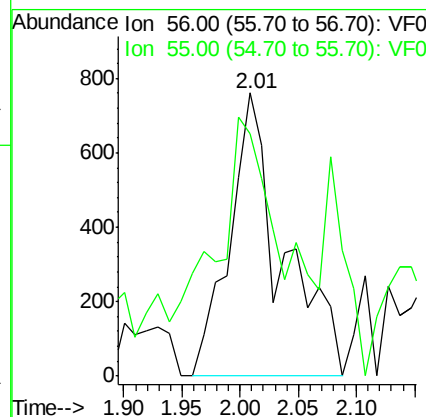
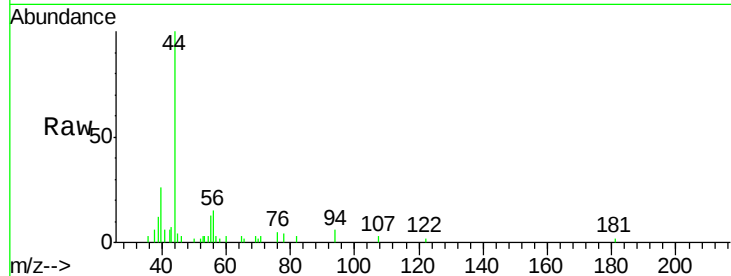
#13
Acrolein
Concen: 14.697 ug/l
RT: 2.01 min Scan# 140
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
56	100		
55	85.4	51.3	76.9#

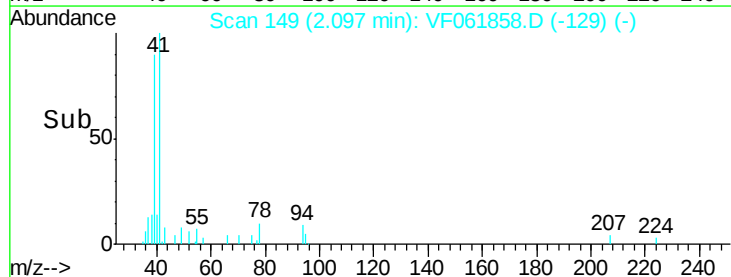
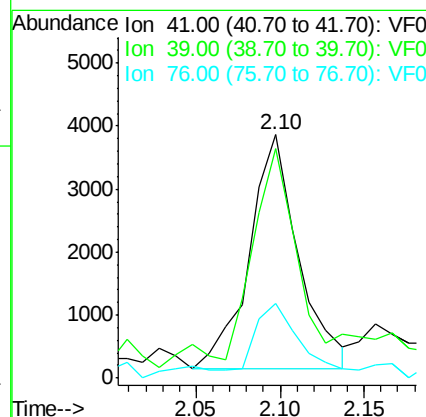
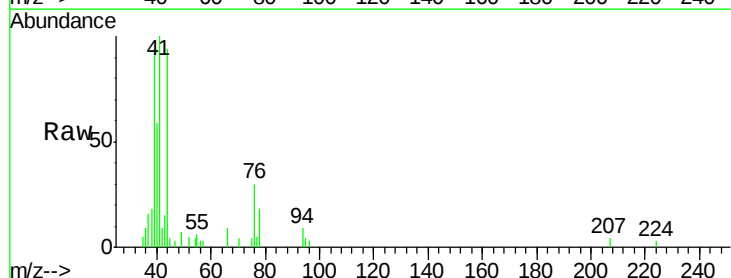
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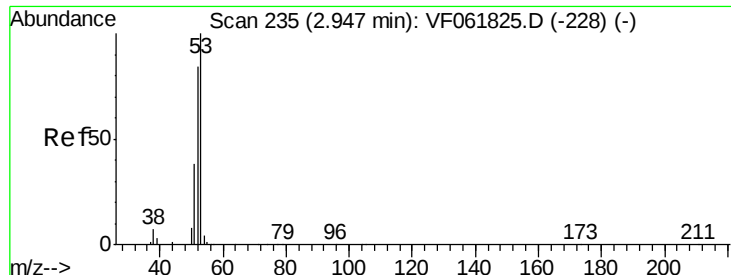
MMDadoda
3/8/2019 10:59:27 AM



#14
Allyl chloride
Concen: 2.573 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
41	100		
39	94.3	59.6	89.4#
76	30.4	32.3	48.5#





#15

Acrylonitrile

Concen: 15.584 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

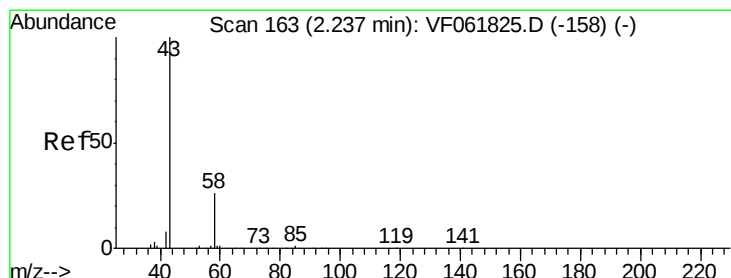
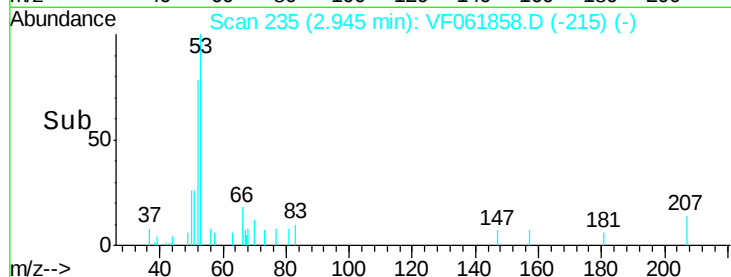
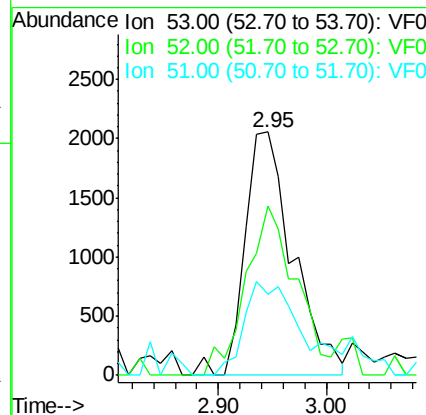
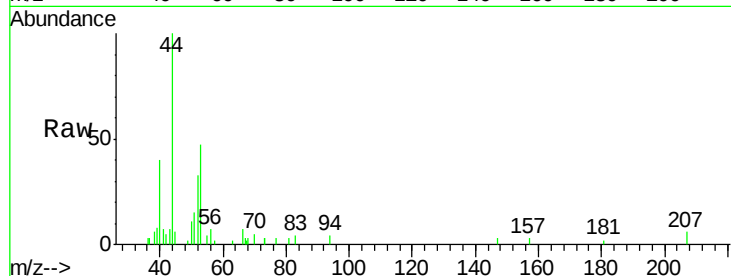
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	53	Resp:	6355
Ion	Ratio	Lower	Upper
53	100		
52	69.6	67.4	101.0
51	33.0	30.7	46.1

Manual Integrations
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MMDadoda
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#16

Acetone

Concen: 13.753 ug/l

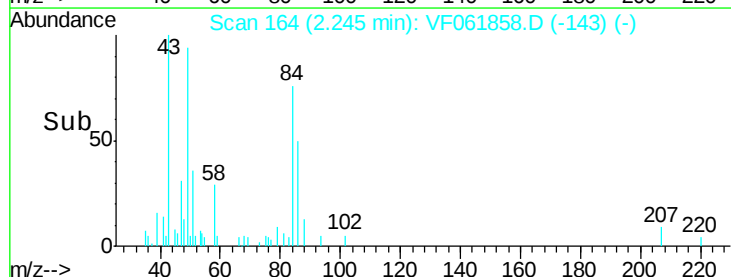
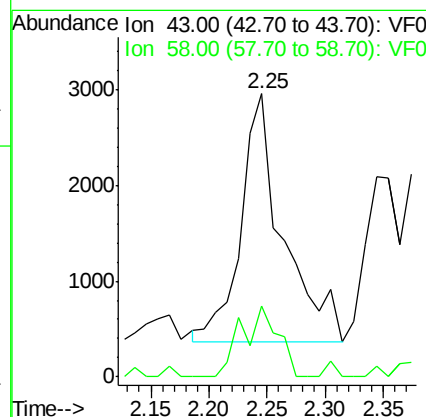
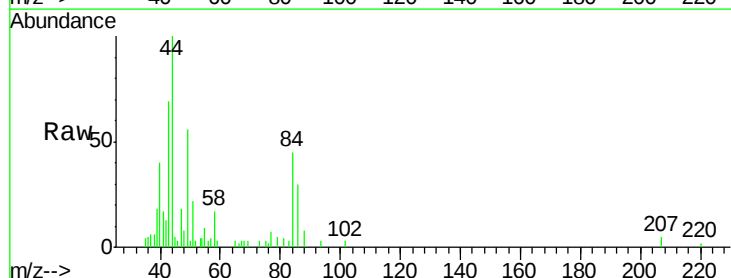
RT: 2.25 min Scan# 164

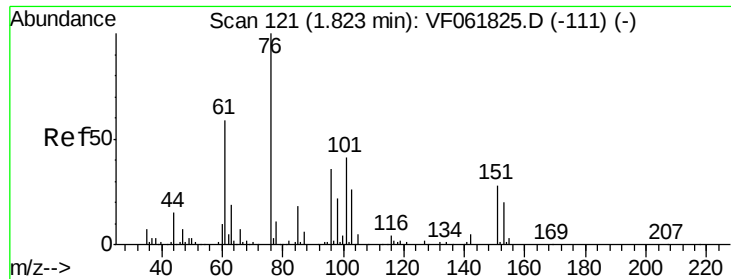
Delta R.T. 0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion:	43	Resp:	6500
Ion	Ratio	Lower	Upper
43	100		
58	25.2	20.3	30.5





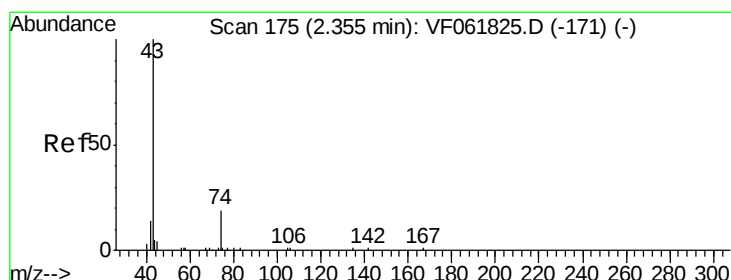
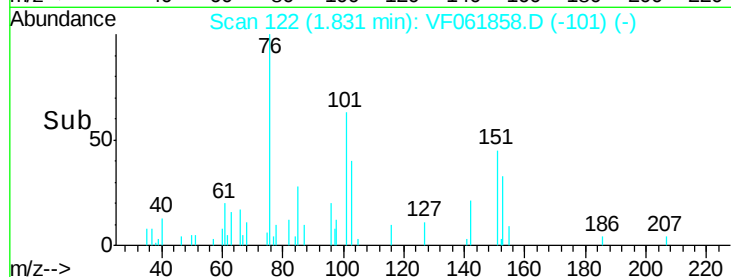
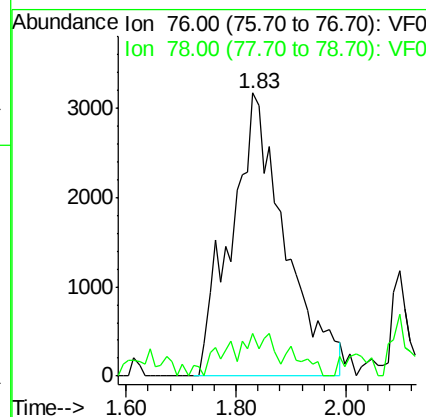
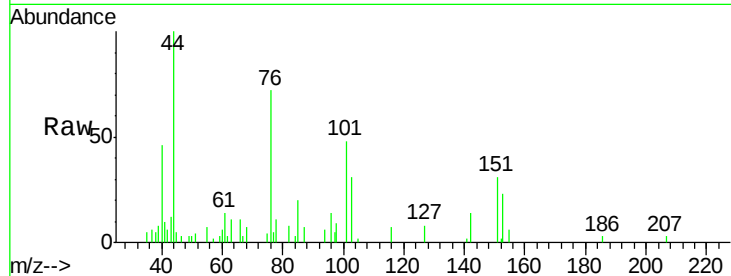
#17
Carbon Disulfide
Concen: 2.609 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. 0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 76 Resp: 21521
Ion Ratio Lower Upper
76 100
78 15.3 9.1 13.7#

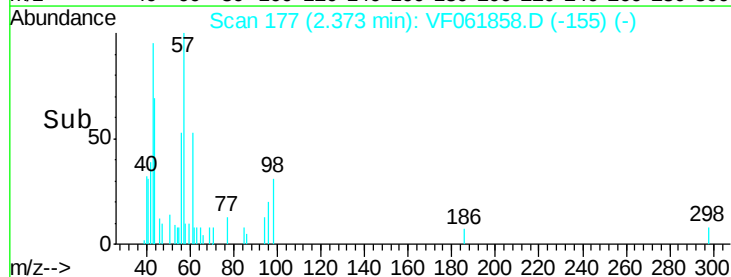
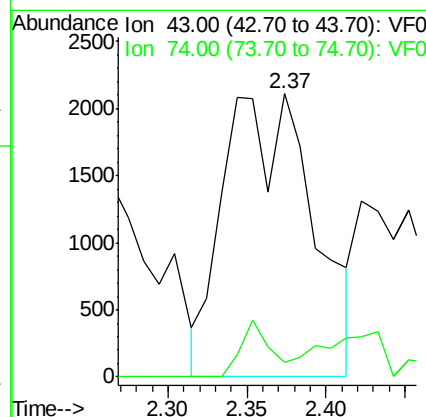
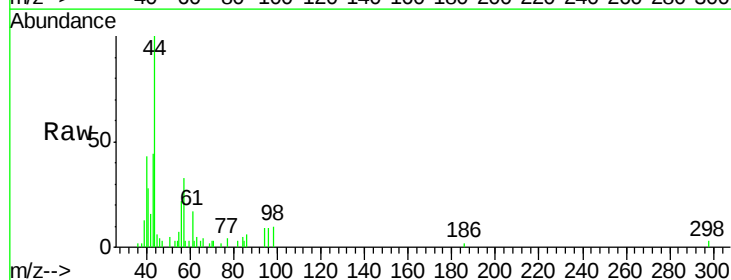
Manual Integrations
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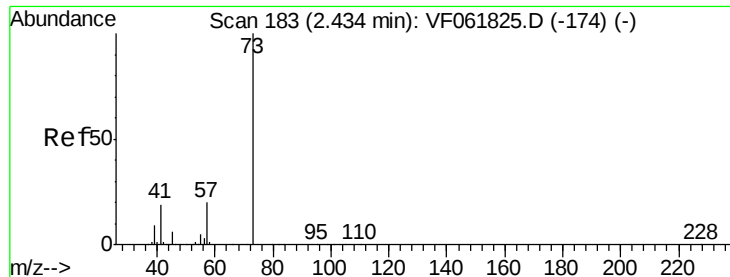
MMDadoda
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#18
Methyl Acetate
Concen: 1.197 ug/l m
RT: 2.37 min Scan# 177
Delta R.T. 0.02 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 43 Resp: 8274
Ion Ratio Lower Upper
43 100
74 5.2 13.2 19.8#





#19

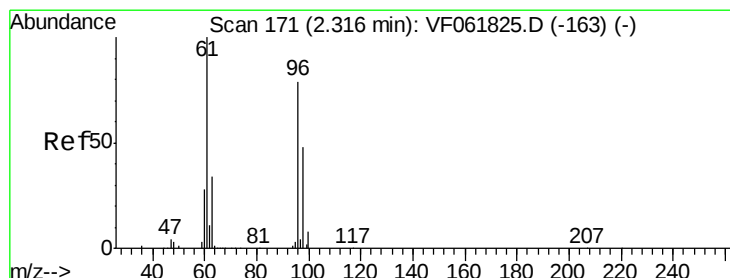
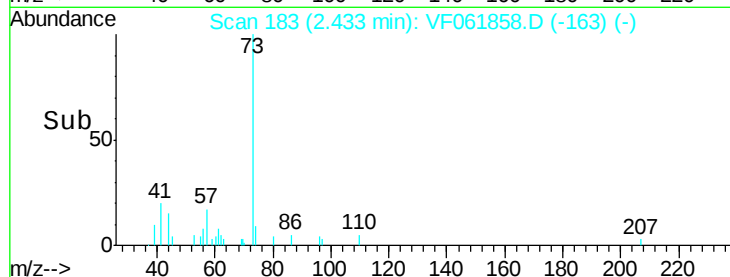
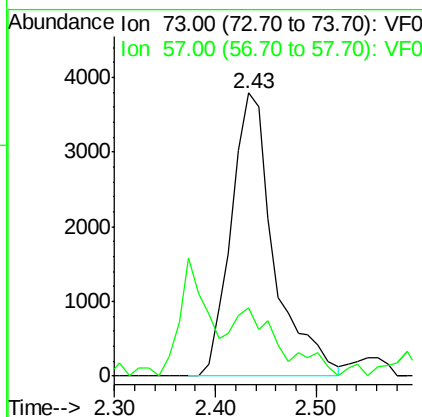
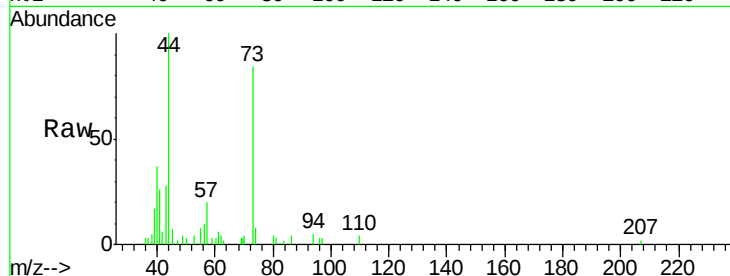
Methvl tert-butvl Ether
Concen: 2.513 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.3	16.1	24.1#

Manual Integrations
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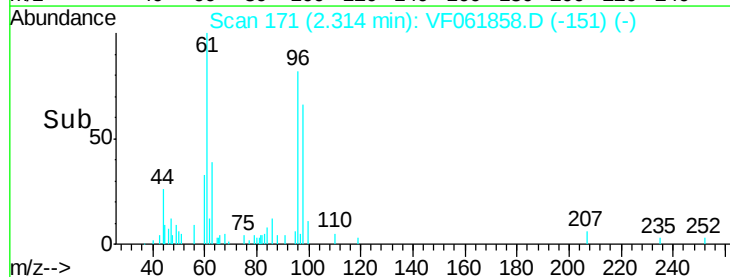
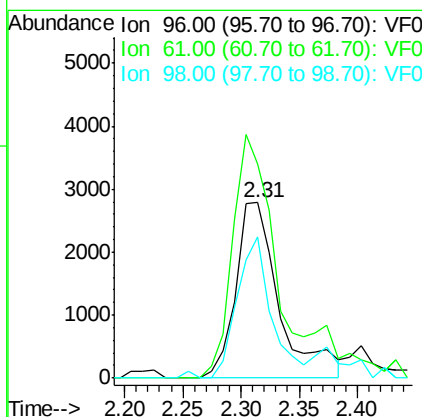
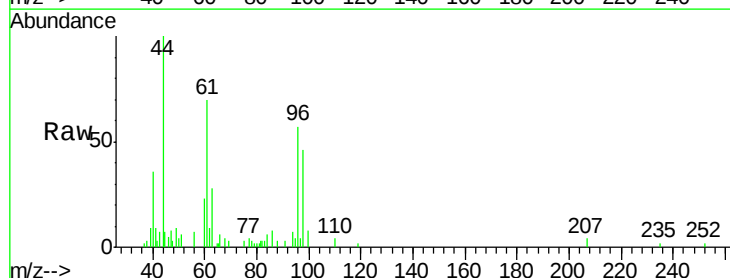
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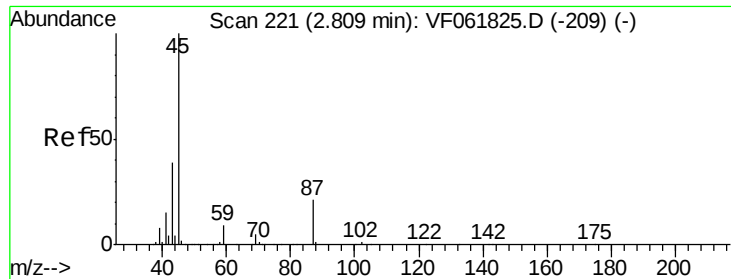


#21

trans-1,2-Dichloroethene
Concen: 2.907 ug/l
RT: 2.31 min Scan# 171
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	122.6	101.0	151.6
98	80.3	48.8	73.2#





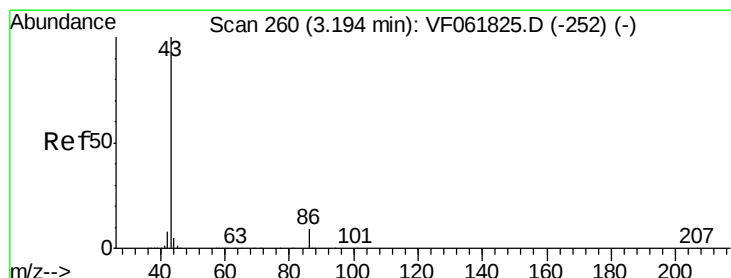
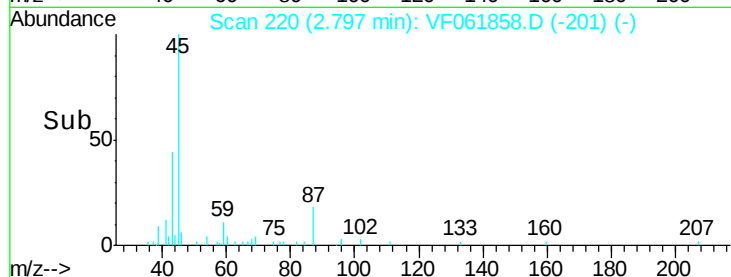
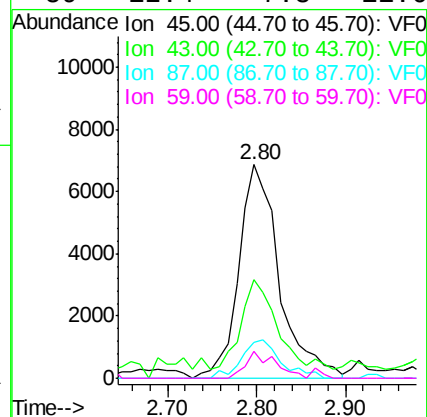
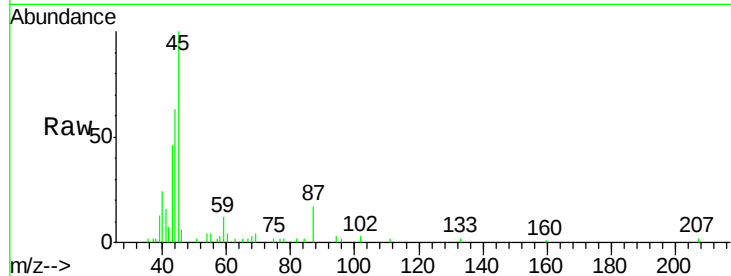
#22
Diisopropyl ether
Concen: 2.865 ug/l
RT: 2.80 min Scan# 220
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
45	100		21754		
43	46.2	31.8	47.8		
87	16.7	17.1	25.7#		
59	12.4	7.8	11.6#		

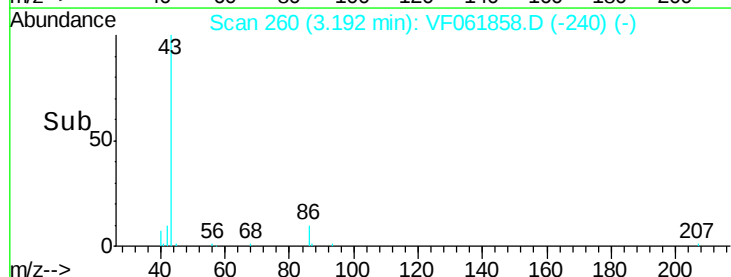
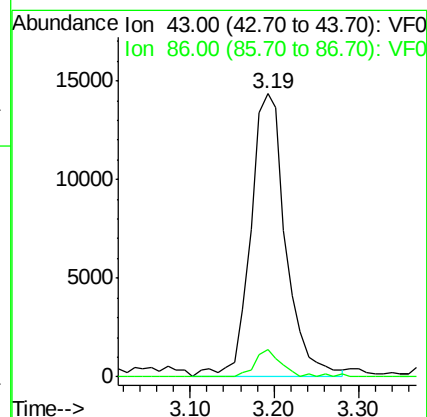
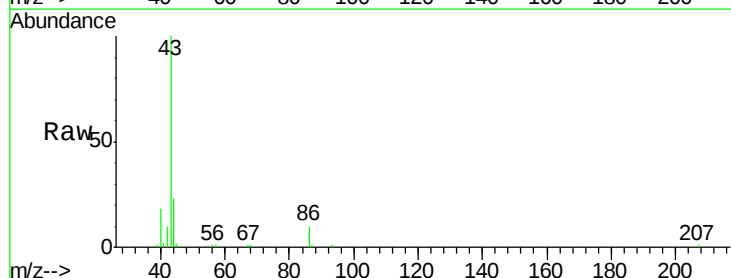
Manual Integrations
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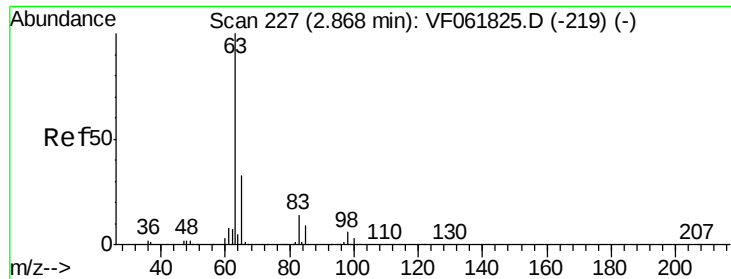
MMDadoda
3/8/2019 10:59:27 AM



#23
Vinyl Acetate
Concen: 12.427 ug/l
RT: 3.19 min Scan# 260
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
43	100		42157		
86	9.5	7.0	10.4		





#24

1,1-Dichloroethane

Concen: 2.796 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

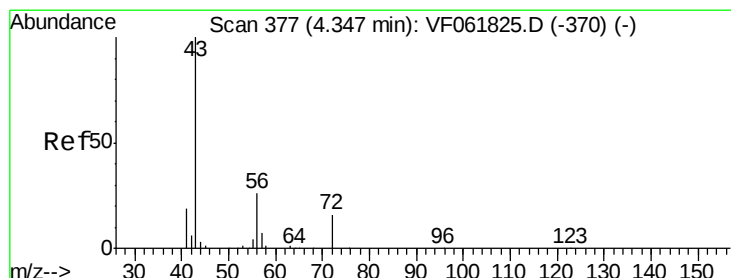
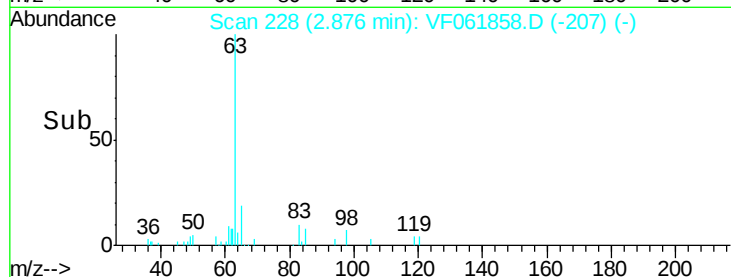
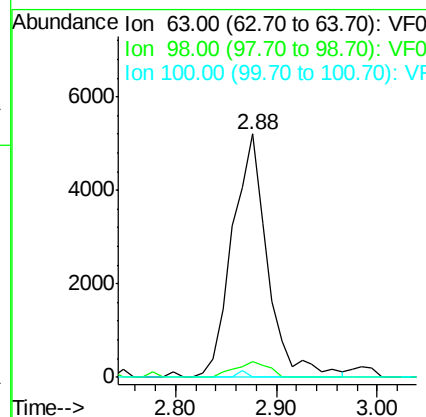
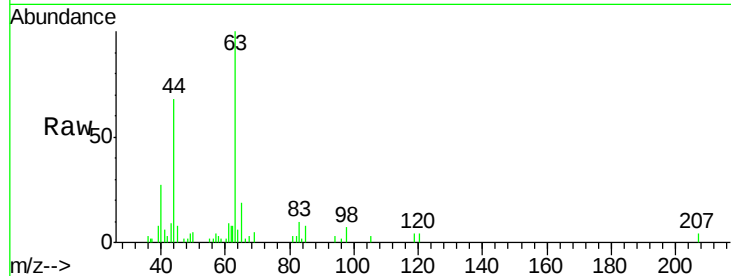
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion	63	Resp	12689
Ion Ratio	Lower	Upper	
63	100		
98	6.7	2.9	8.6
100	0.0	1.8	5.3#

Manual Integrations
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MMDadoda
3/8/2019 10:59:27 AM



#25

2-Butanone

Concen: 14.478 ug/l

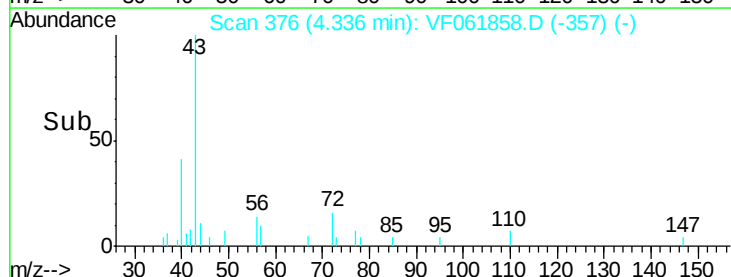
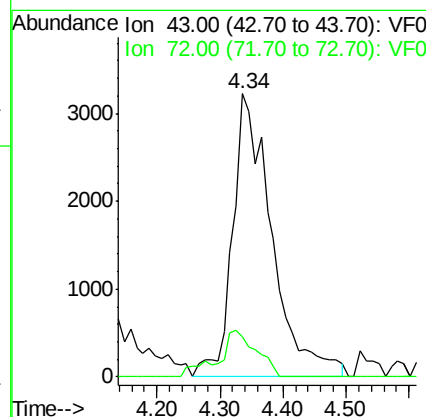
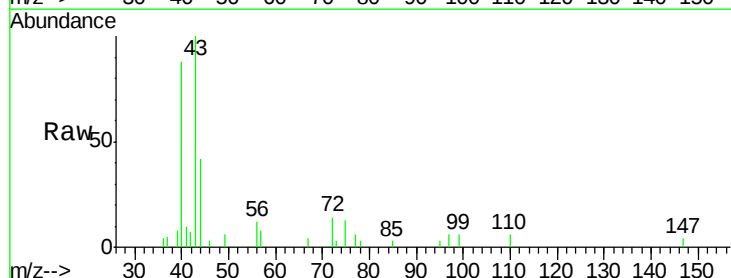
RT: 4.34 min Scan# 376

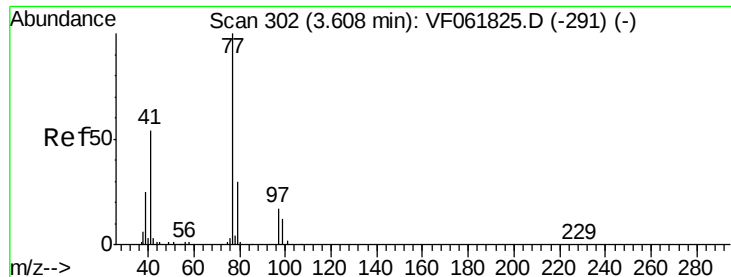
Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion	43	Resp	13919
Ion Ratio	Lower	Upper	
43	100		
72	14.0	16.2	24.4#





#26

2,2-Dichloropropane

Concen: 2.252 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 77 Resp: 4562

Ion Ratio Lower Upper

77 100

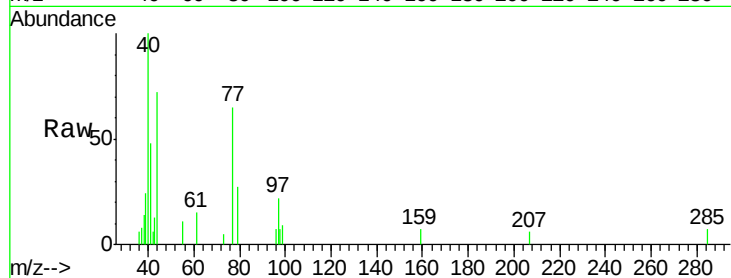
97 34.3 10.4 31.4#

Manual Integrations

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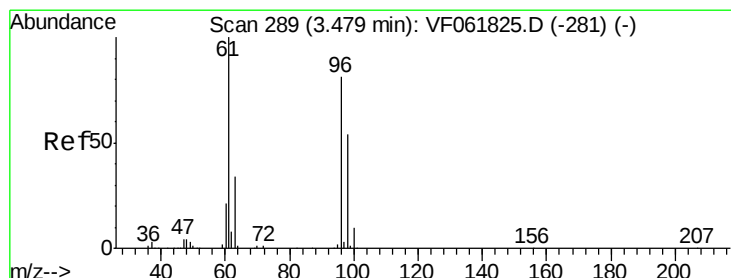
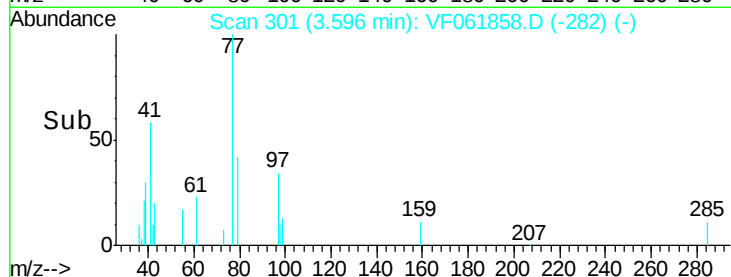
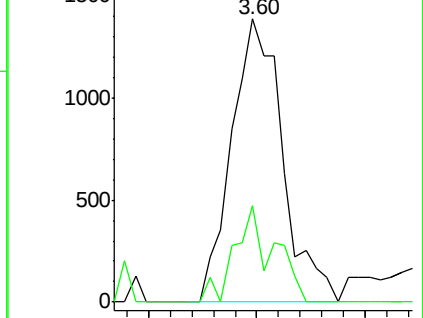
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Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 2.528 ug/l

RT: 3.48 min Scan# 289

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

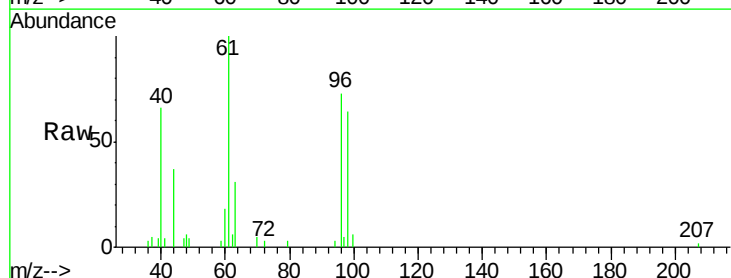
Tgt Ion: 96 Resp: 8734

Ion Ratio Lower Upper

96 100

61 137.0 0.0 245.8

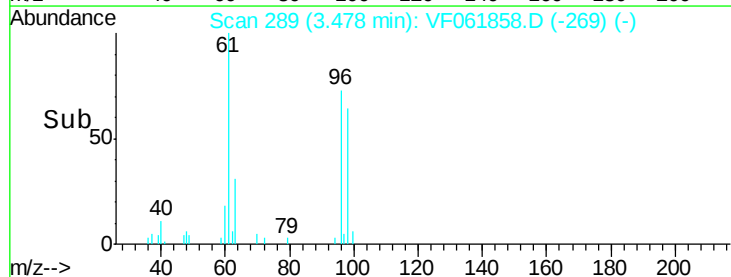
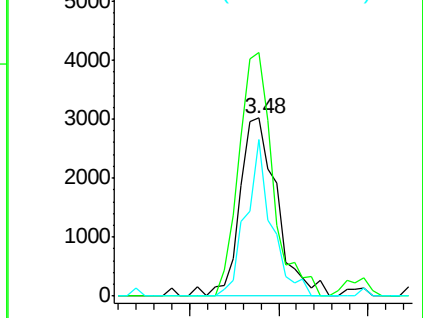
98 88.3 0.0 132.6

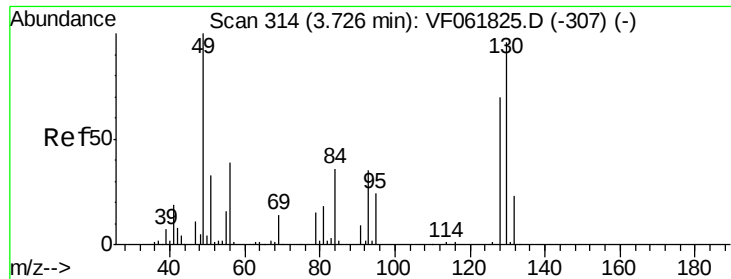


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#28

Bromochloromethane

Concen: 2.333 ug/l

RT: 3.71 min Scan# 313

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

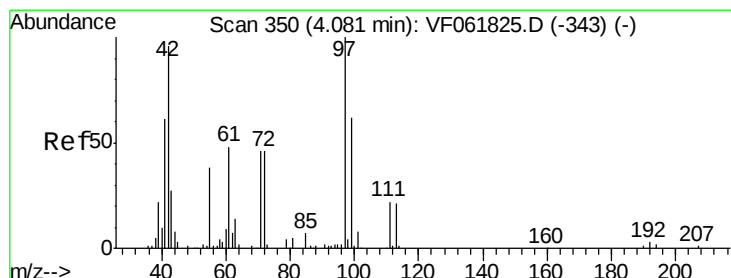
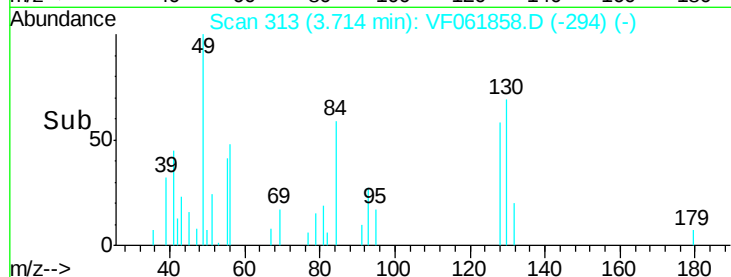
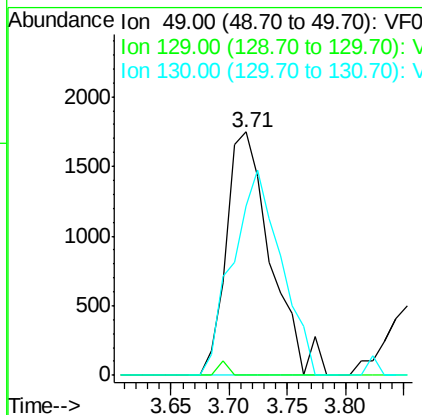
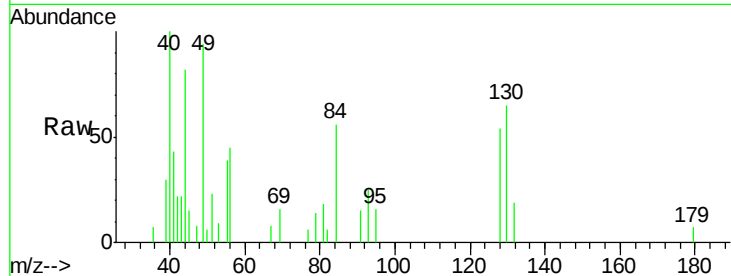
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	69.3	76.9	115.3#

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#29

Tetrahydrofuran

Concen: 15.192 ug/l

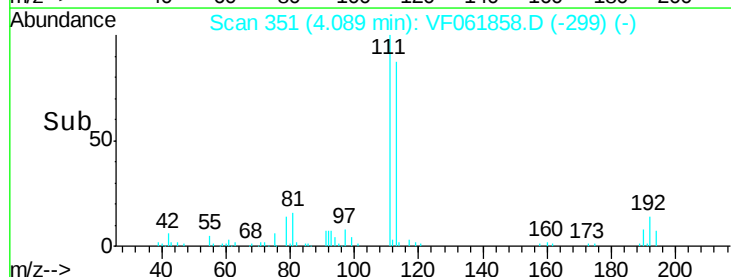
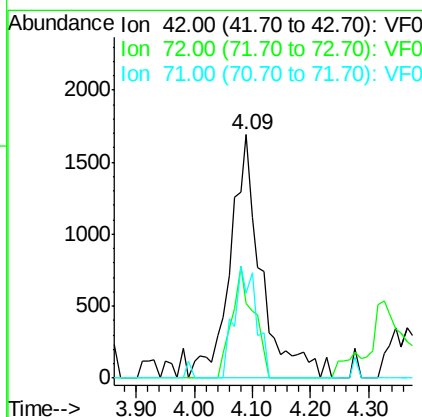
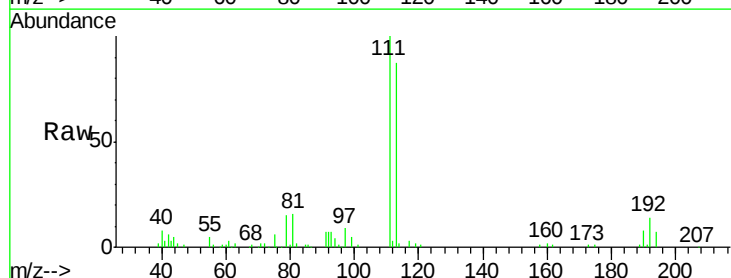
RT: 4.09 min Scan# 351

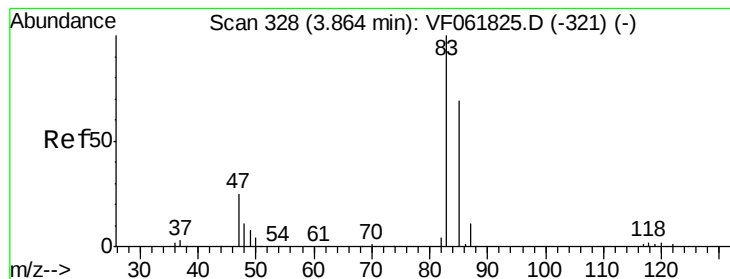
Delta R.T. 0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
42	100		
72	31.8	34.4	51.6#
71	32.7	34.6	52.0#





#30

Chloroform

Concen: 2.721 ug/l

RT: 3.85 min Scan# 327

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 83 Resp: 14109

Ion Ratio Lower Upper

83 100

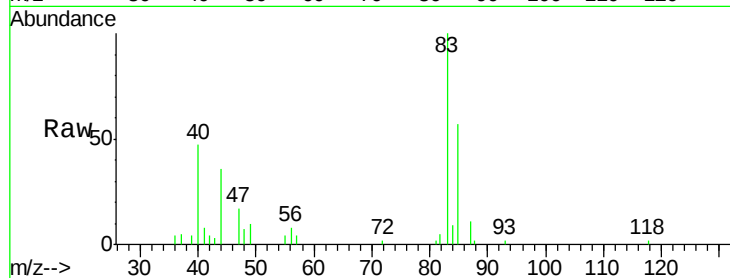
85 56.9 55.3 82.9

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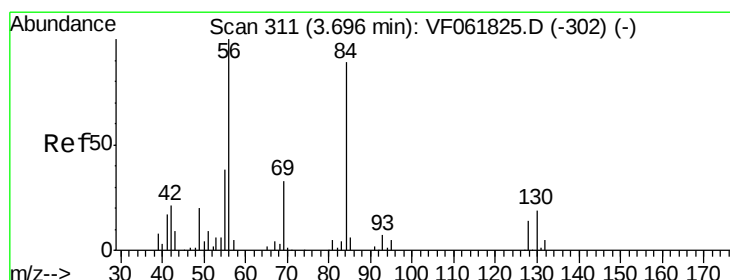
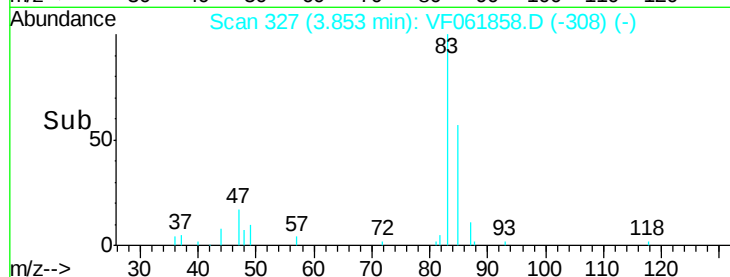
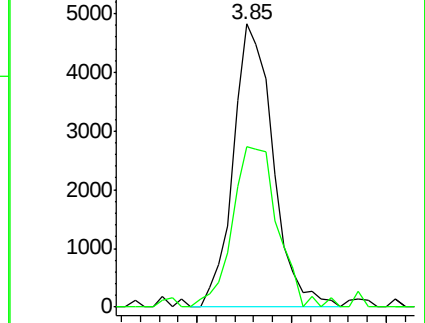
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Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#31

Cyclohexane

Concen: 2.405 ug/l m

RT: 3.68 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

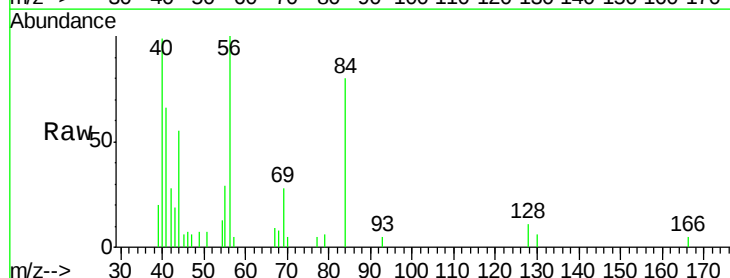
Tgt Ion: 56 Resp: 11432

Ion Ratio Lower Upper

56 100

69 28.2 26.0 39.0

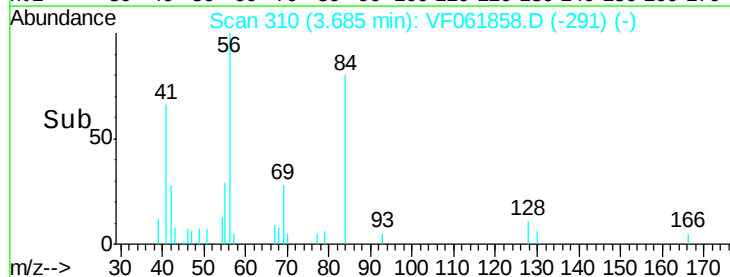
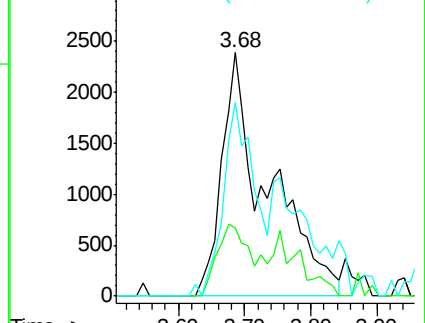
84 79.6 71.0 106.6

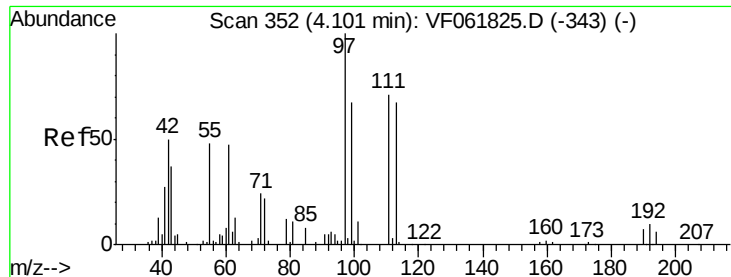


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0





#32

1,1,1-Trichloroethane

Concen: 2.665 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

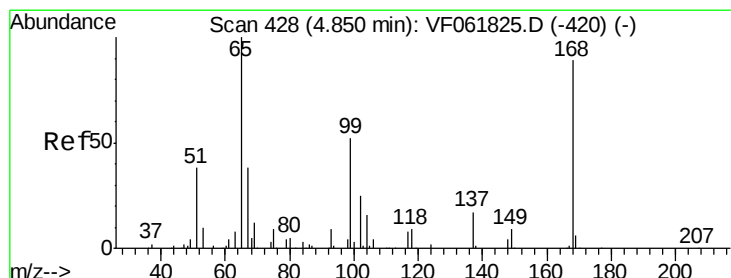
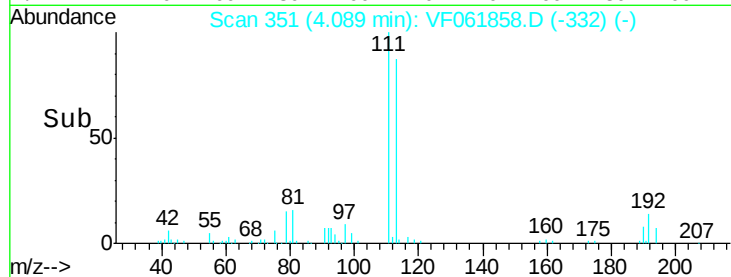
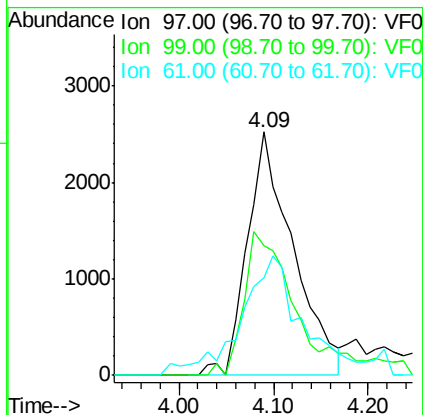
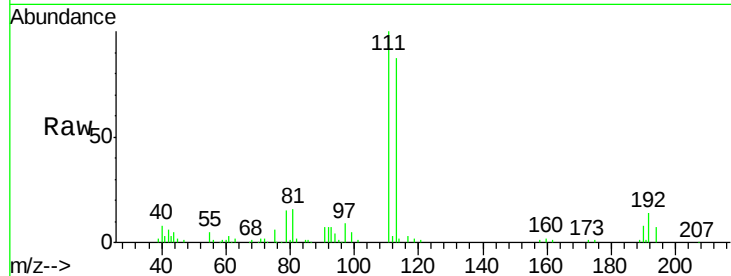
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	97	Resp:	8516
Ion Ratio	Lower	Upper	
97	100		
99	53.1	53.8	80.8#
61	39.9	37.9	56.9

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#33

1,2-Dichloroethane-d4

Concen: 53.898 ug/l

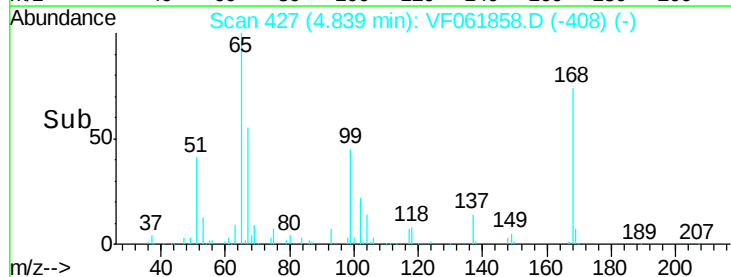
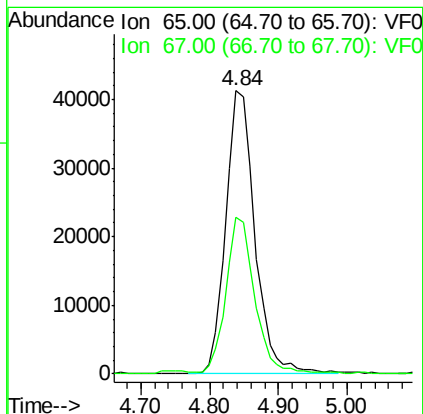
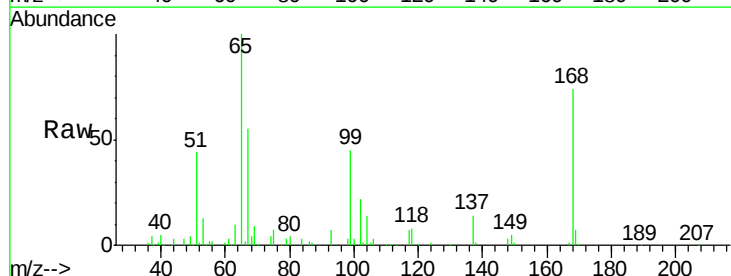
RT: 4.84 min Scan# 427

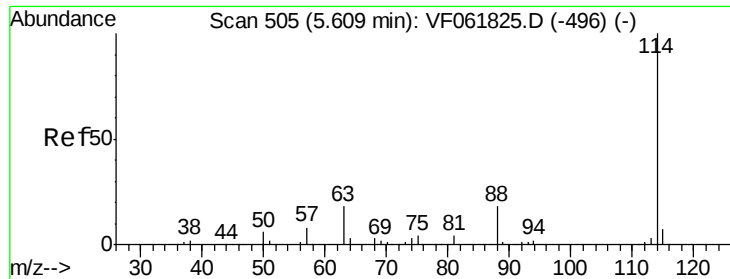
Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion:	65	Resp:	121612
Ion Ratio	Lower	Upper	
65	100		
67	55.2	0.0	108.6





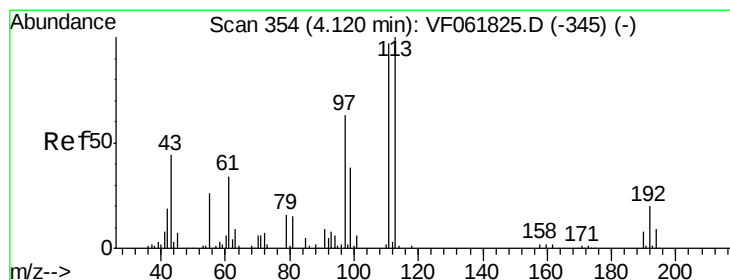
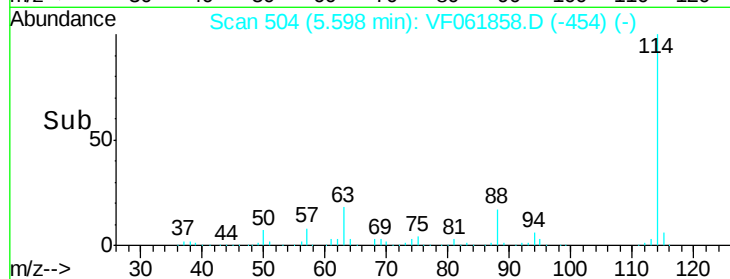
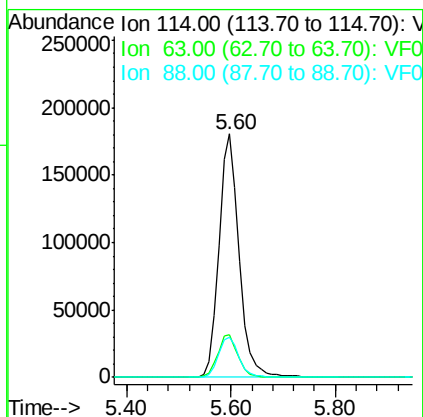
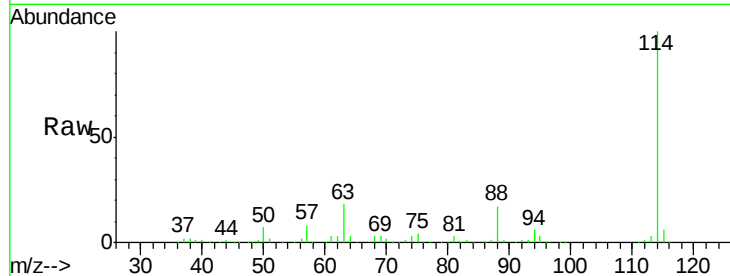
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.60 min Scan# 504
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
114	100	481643		
63	17.7	0.0	35.6	
88	16.6	0.0	35.6	

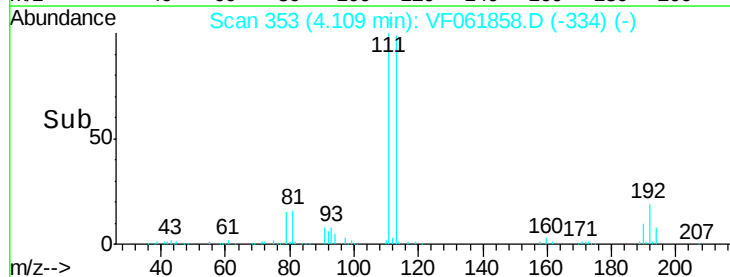
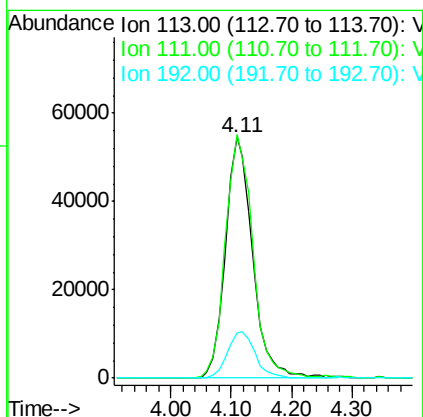
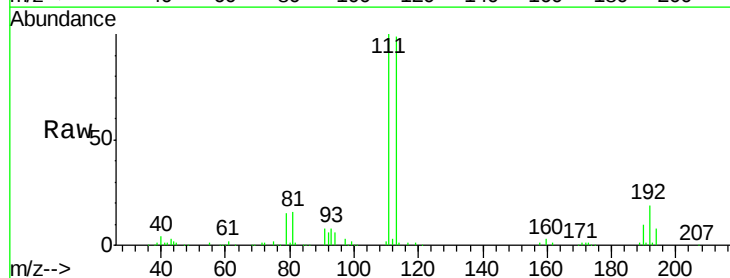
Manual Integrations
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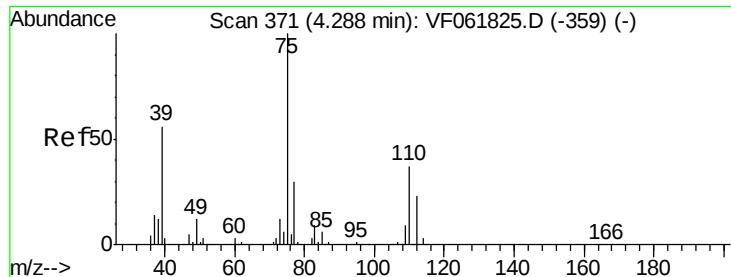
MMDadoda
3/8/2019 10:59:27 AM



#35
Dibromofluoromethane
Concen: 50.662 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	170288		
111	101.2	77.6	116.4	
192	18.8	15.9	23.9	





#36

1,1-Dichloropropene

Concen: 2.970 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

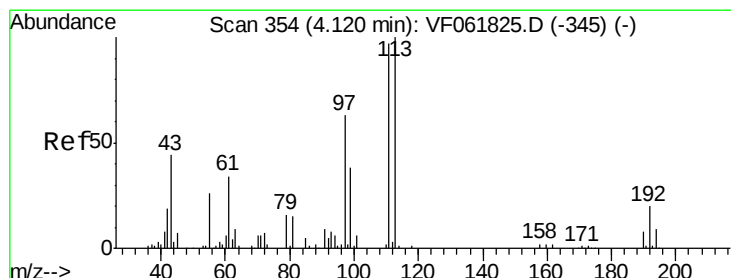
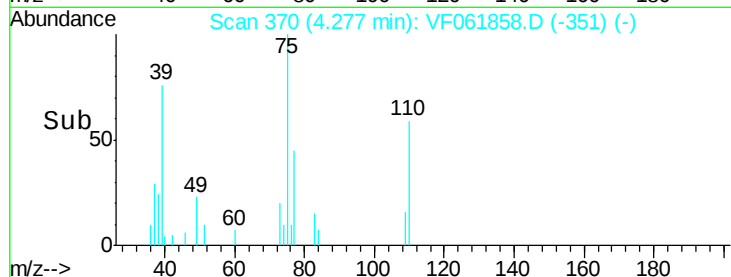
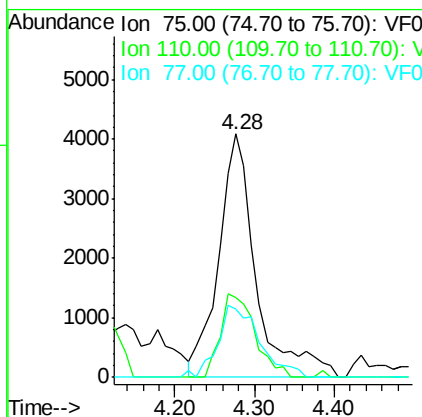
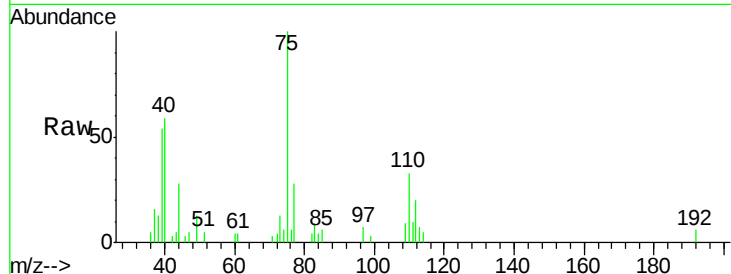
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	75	Resp:	13513
Ion	Ratio	Lower	Upper
75	100		
110	32.8	18.6	55.6
77	28.1	24.2	36.2

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#37

Ethyl Acetate

Concen: 3.404 ug/l

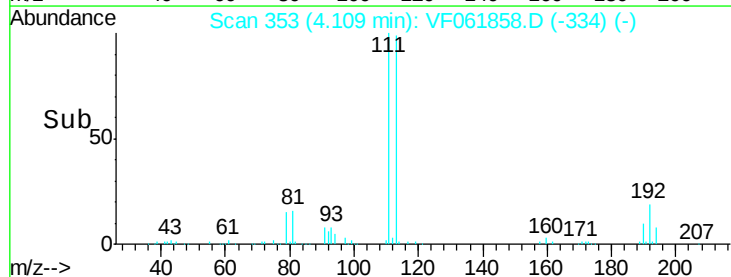
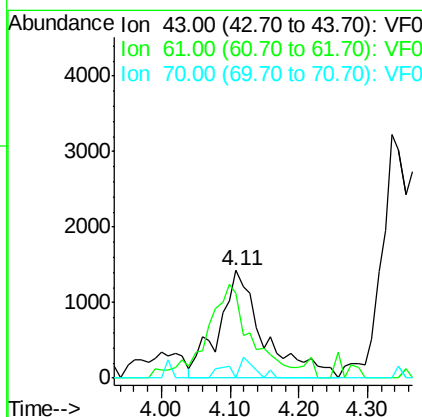
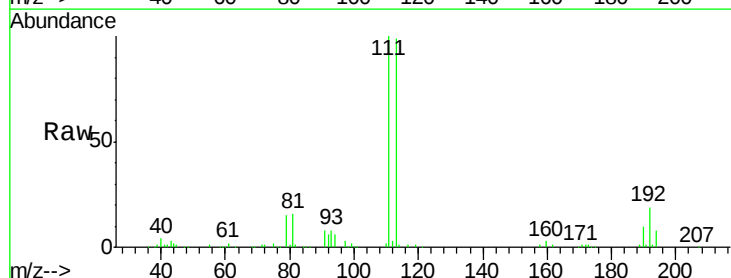
RT: 4.11 min Scan# 353

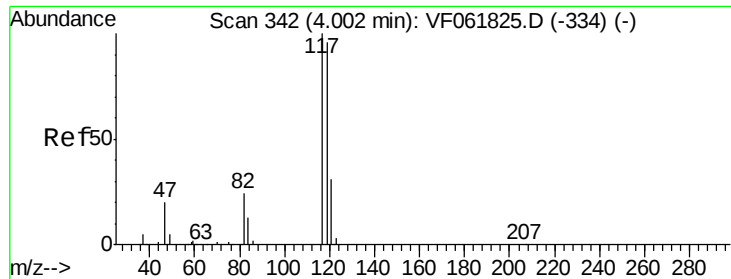
Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion:	43	Resp:	6500
Ion	Ratio	Lower	Upper
43	100		
61	78.8	60.7	91.1
70	0.0	10.6	15.8#





#38

Carbon Tetrachloride

Concen: 2.788 ug/l

RT: 3.98 min Scan# 340

Delta R.T. -0.02 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

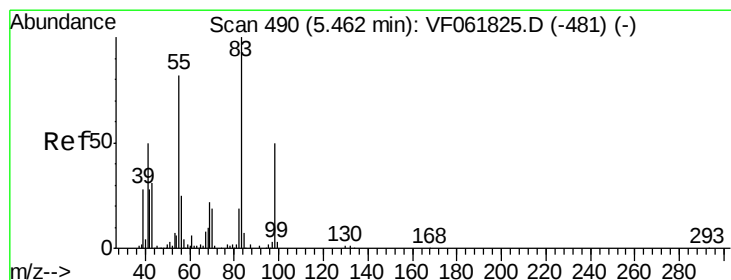
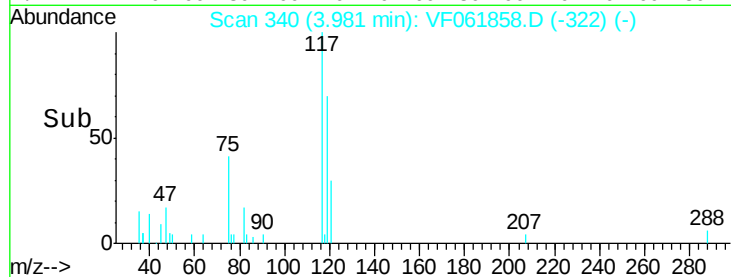
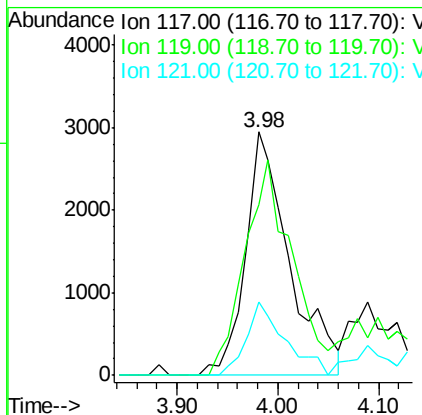
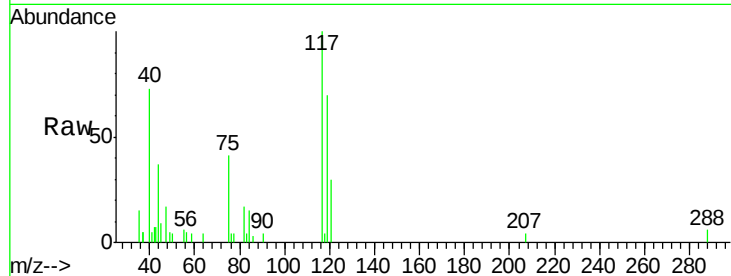
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	117	Resp:	8978
Ion Ratio	Lower	Upper	
117	100		
119	70.2	76.6	114.8#
121	30.3	24.4	36.6

Manual Integrations
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#39

Methylcyclohexane

Concen: 2.375 ug/l

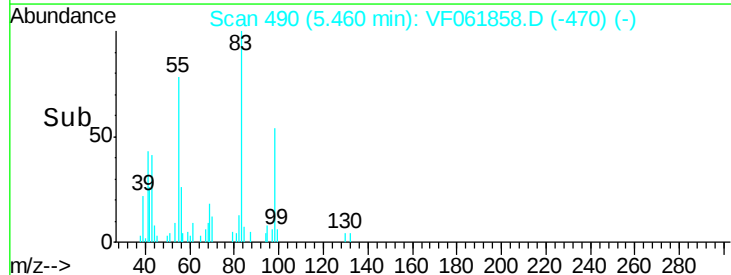
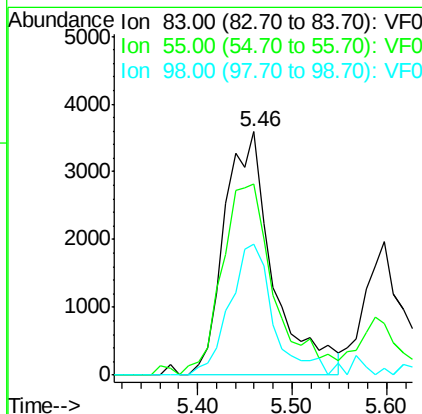
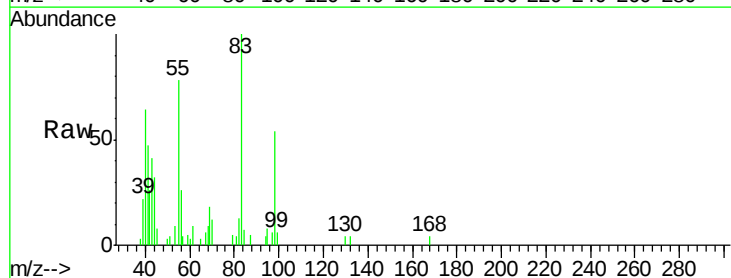
RT: 5.46 min Scan# 490

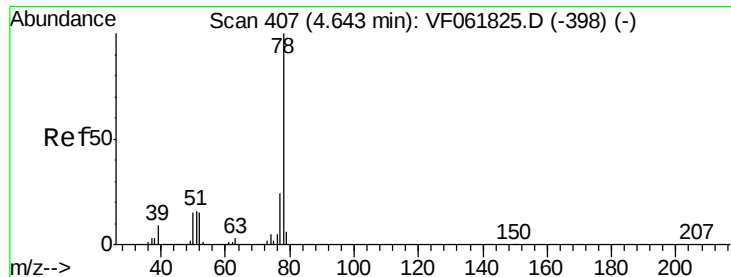
Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion:	83	Resp:	12765
Ion Ratio	Lower	Upper	
83	100		
55	78.4	66.0	99.0
98	53.9	39.8	59.6





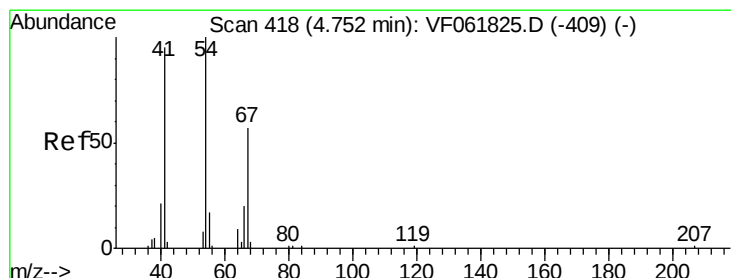
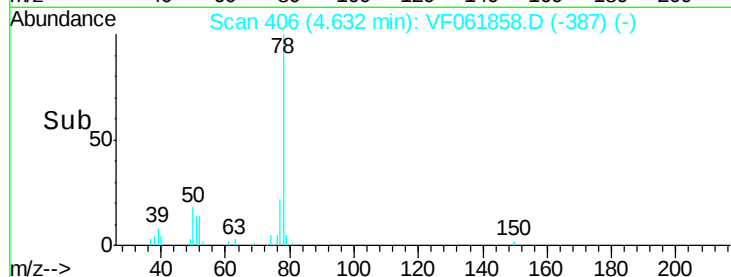
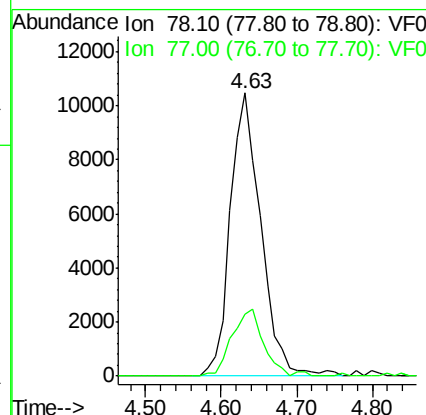
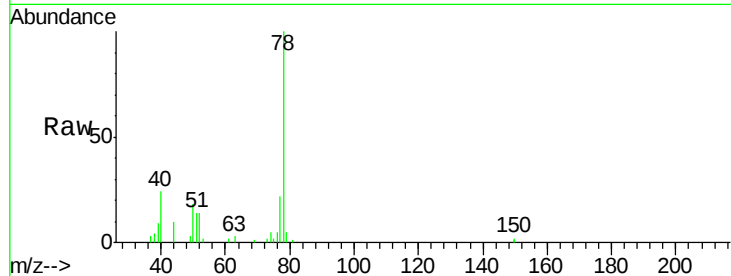
#40
Benzene
Concen: 2.470 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.0	19.5	29.3

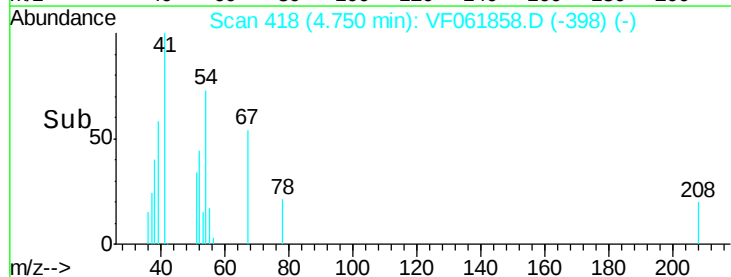
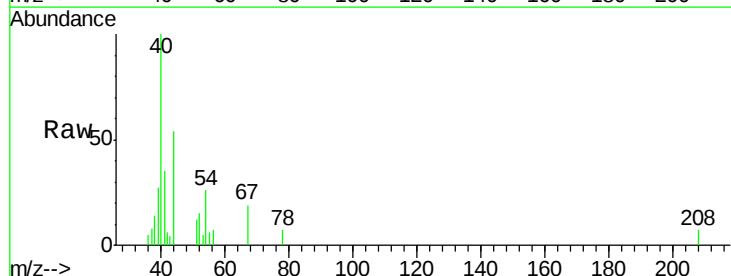
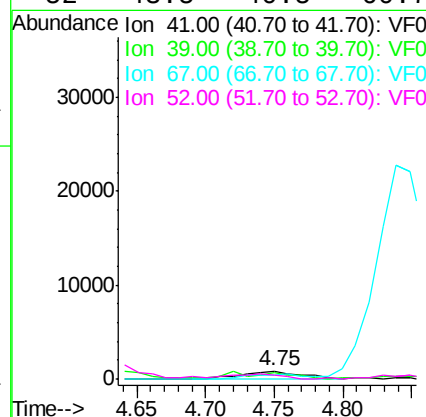
Manual Integrations
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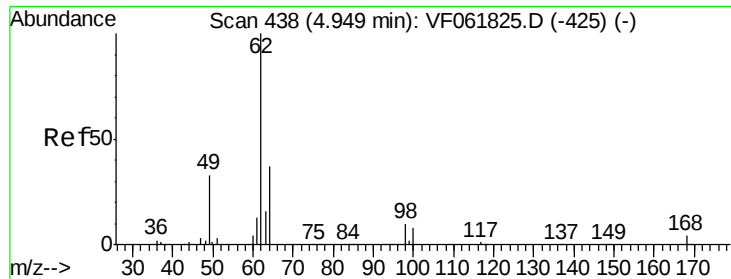
MMDadoda
3/8/2019 10:59:27 AM



#41
Methacrylonitrile
Concen: 2.344 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
41	100		
39	77.7	43.0	64.6#
67	53.9	47.8	71.8
52	43.5	40.5	60.7





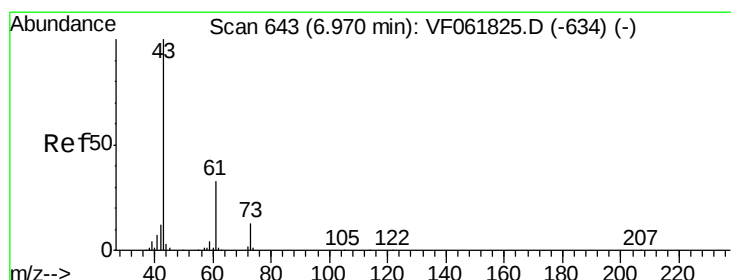
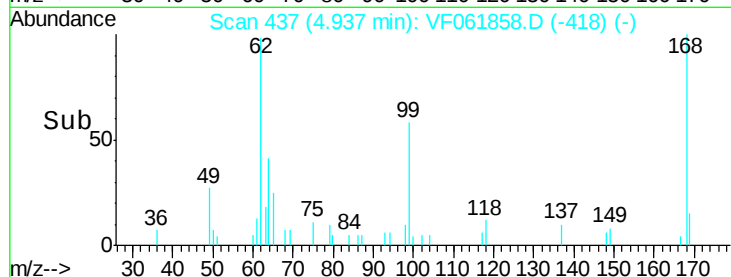
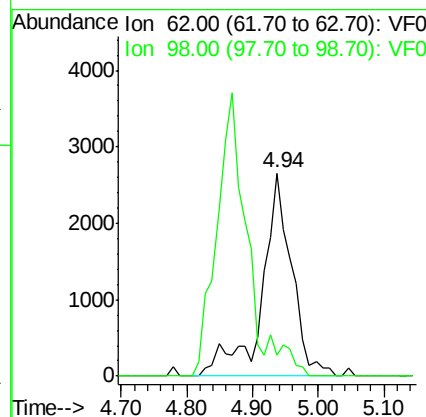
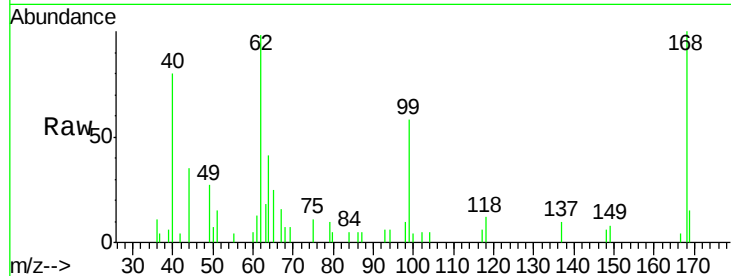
#42
1,2-Dichloroethane
Concen: 2.846 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 62 Resp: 8436
Ion Ratio Lower Upper
62 100
98 10.4 0.0 21.0

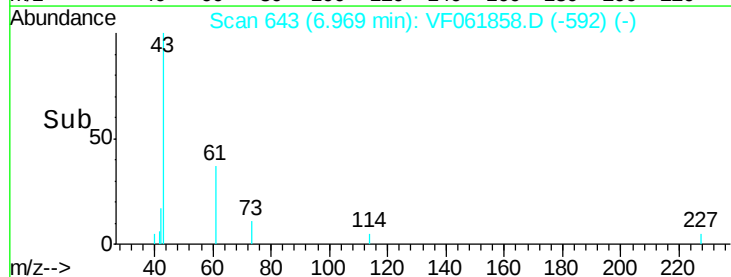
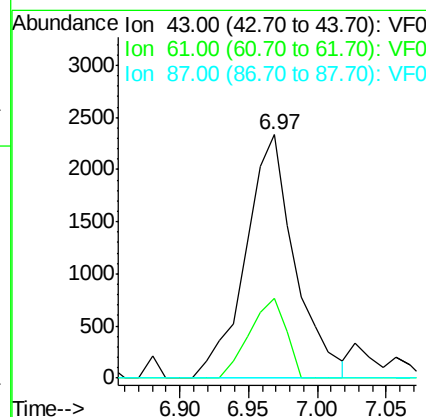
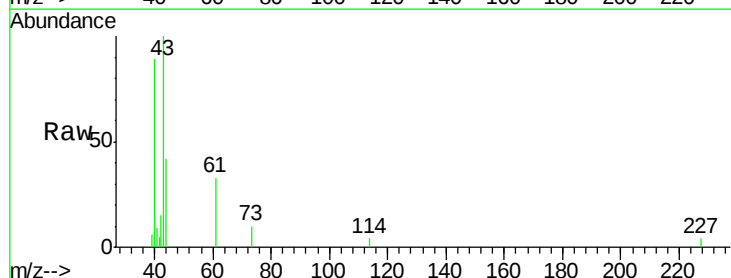
Manual Integrations
APPROVED

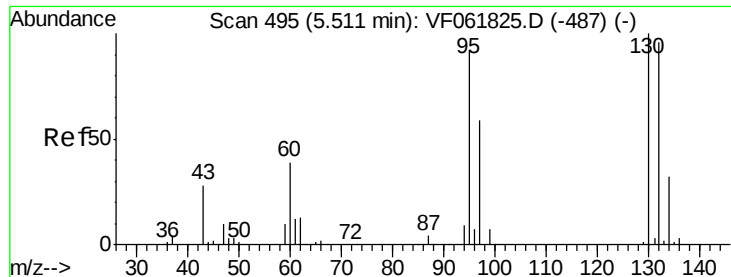
MMDadoda
3/8/2019 10:59:27 AM



#43
Isopropyl Acetate
Concen: 2.478 ug/l
RT: 6.97 min Scan# 643
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 43 Resp: 5832
Ion Ratio Lower Upper
43 100
61 32.6 26.1 39.1
87 0.0 0.0 0.0





#44

Trichloroethene

Concen: 2.567 ug/l

RT: 5.51 min Scan# 495

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:130 Resp: 9488

Ion Ratio Lower Upper

130 100

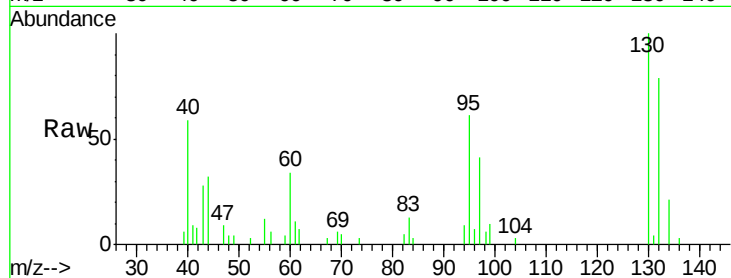
95 60.7 0.0 184.0

Manual Integrations

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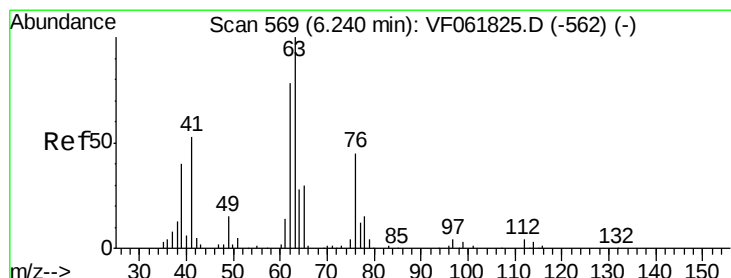
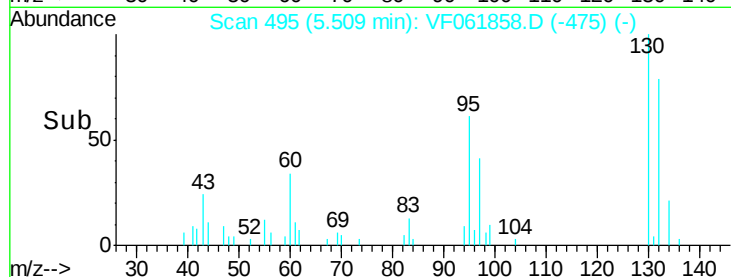
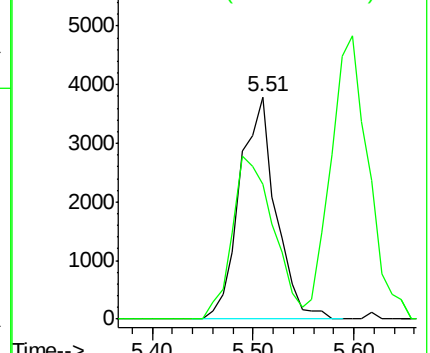
MMDadoda

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#45

1,2-Dichloropropane

Concen: 2.261 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061858.D

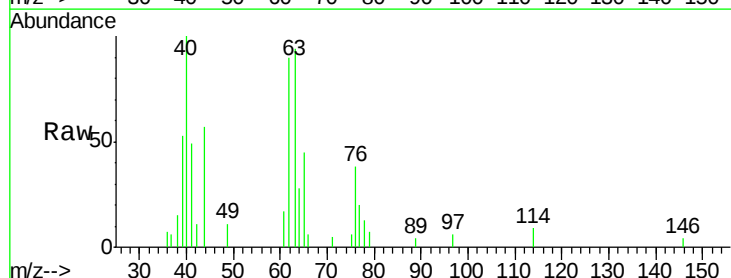
Acq: 5 Mar 2019 21:24

Tgt Ion: 63 Resp: 6393

Ion Ratio Lower Upper

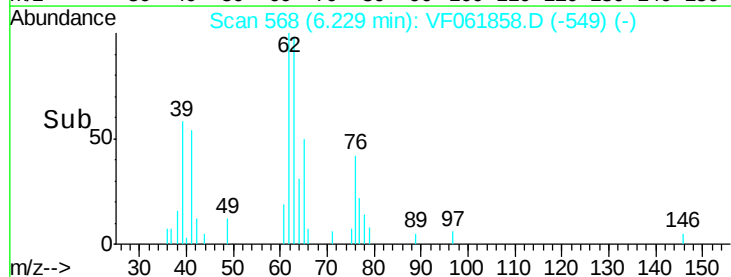
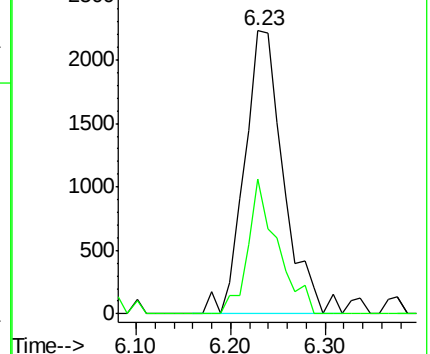
63 100

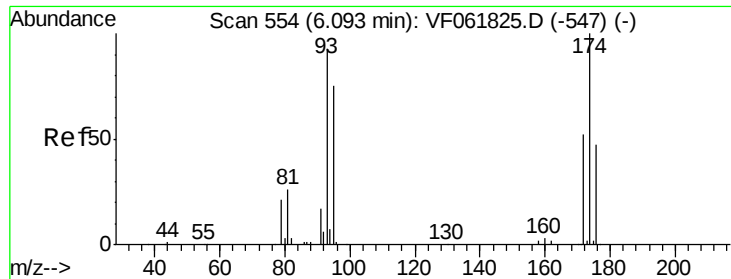
65 47.9 24.0 36.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





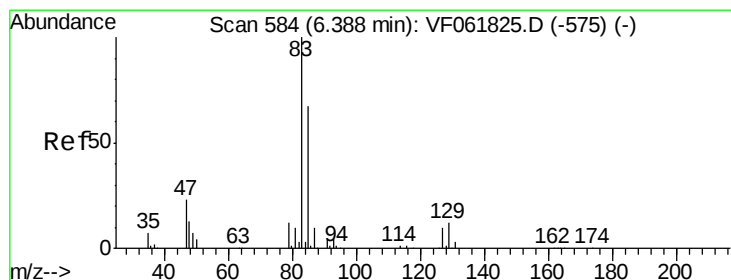
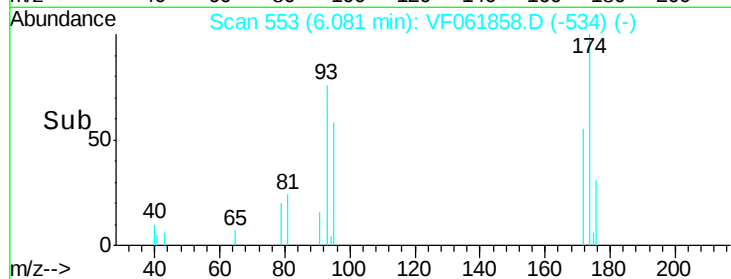
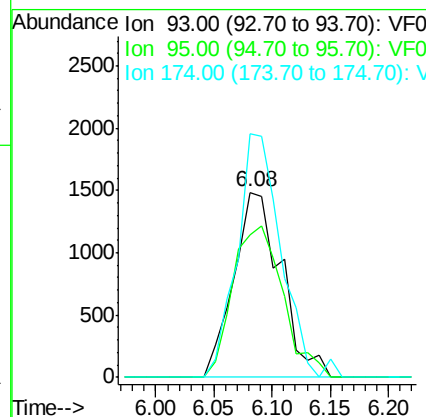
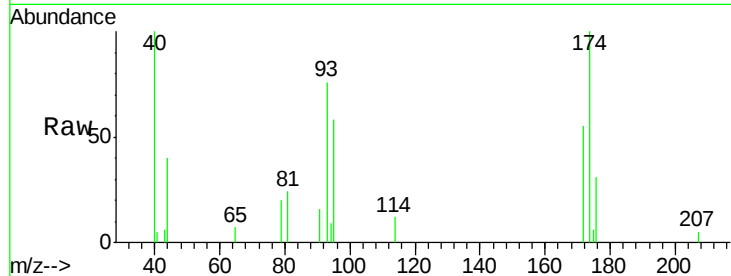
#46
Dibromomethane
Concen: 2.350 ug/l
RT: 6.08 min Scan# 553
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
93	100		
95	76.8	64.4	96.6
174	131.6	85.8	128.6

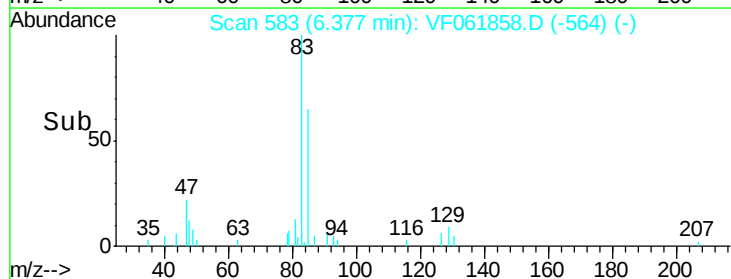
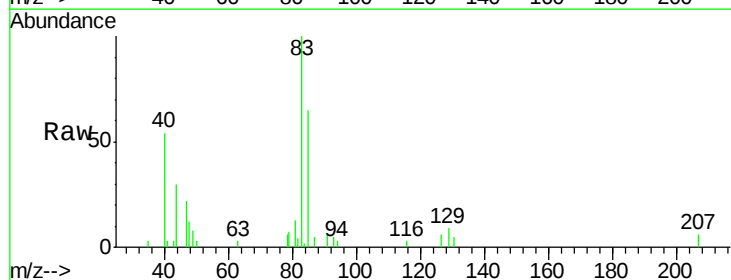
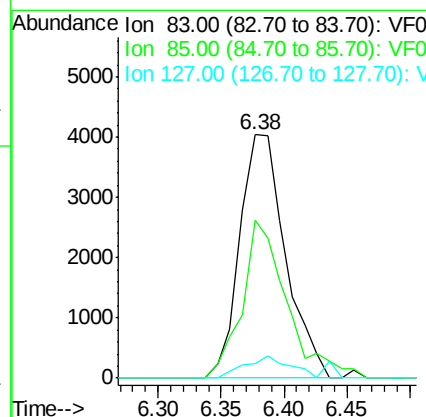
Manual Integrations
APPROVED

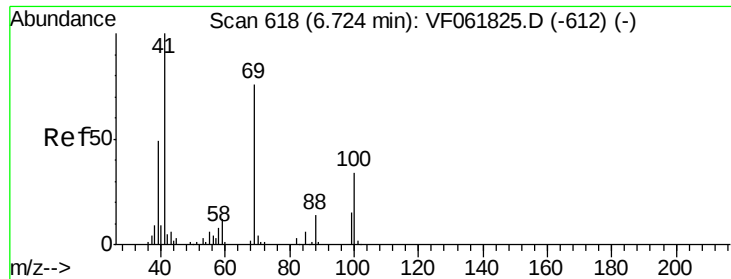
MMDadoda
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#47
Bromodichloromethane
Concen: 2.582 ug/l
RT: 6.38 min Scan# 583
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	53.6	80.4
127	6.2	8.1	12.1





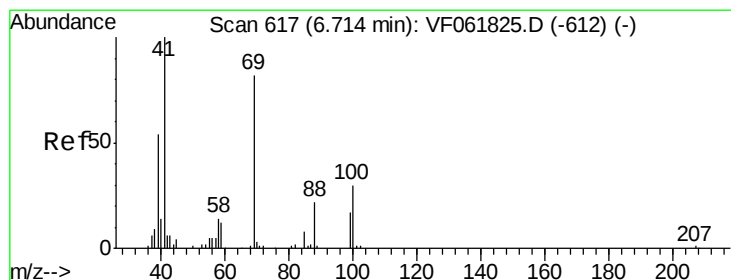
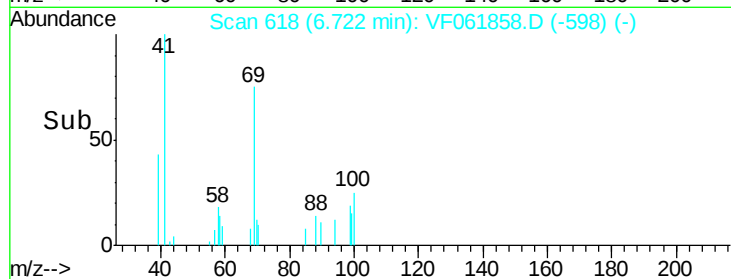
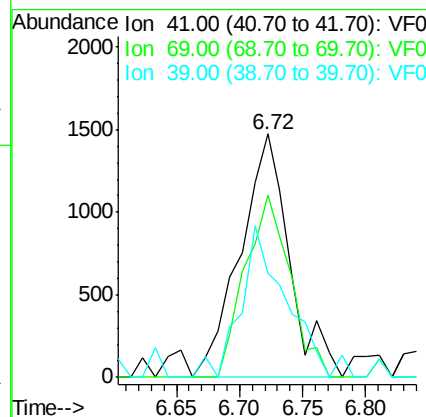
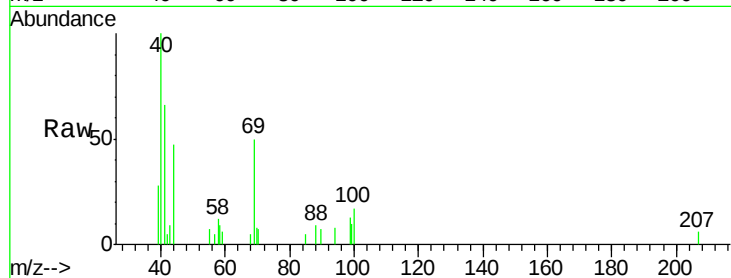
#48
Methvl methacrylate
Concen: 2.693 ug/l
RT: 6.72 min Scan# 618
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
41	100		
69	74.9	60.4	90.6
39	42.6	39.7	59.5

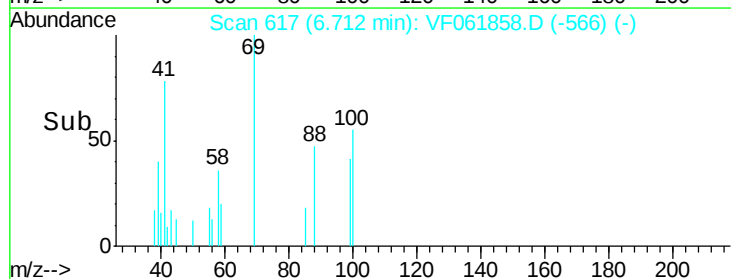
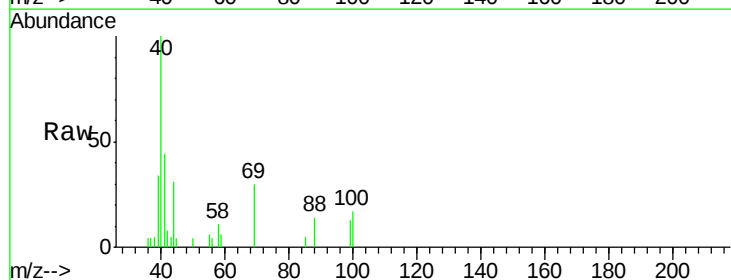
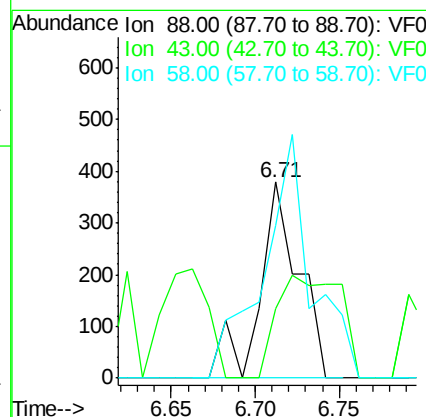
Manual Integrations
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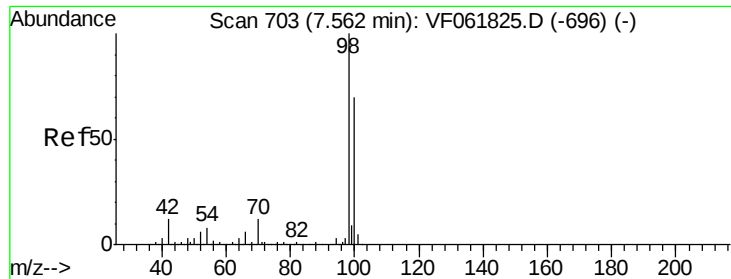
MMDadoda
3/8/2019 10:59:27 AM



#49
1,4-Dioxane
Concen: 44.718 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
88	100		
43	35.4	28.4	42.6
58	77.8	50.7	76.1





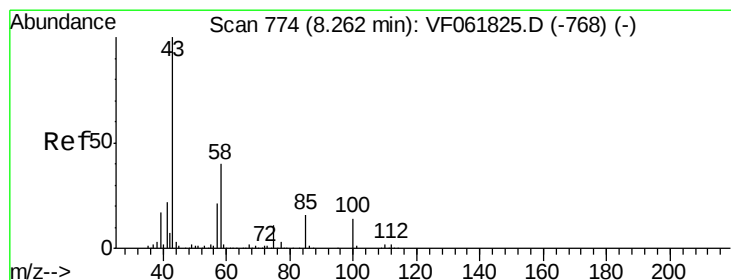
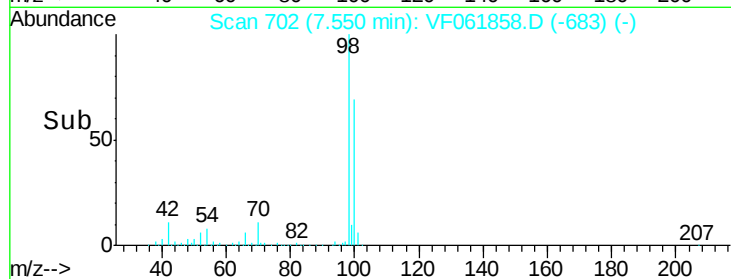
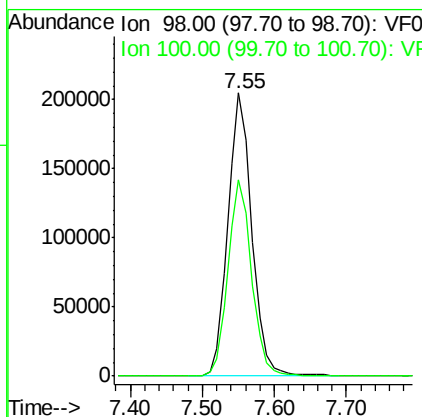
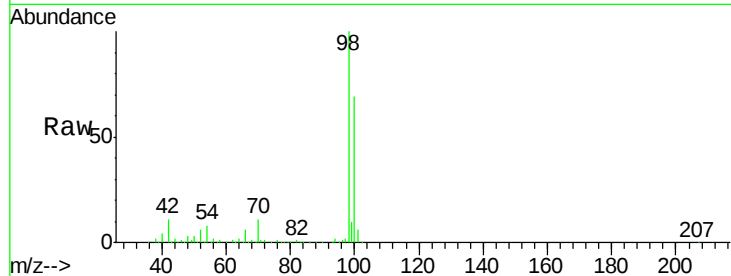
#50
Toluene-d8
Concen: 47.444 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 98 Resp: 473997
Ion Ratio Lower Upper
98 100
100 69.3 56.0 84.0

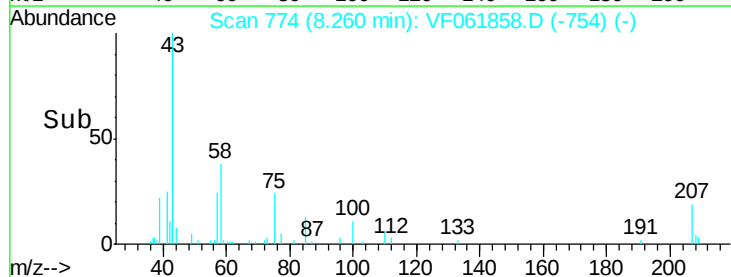
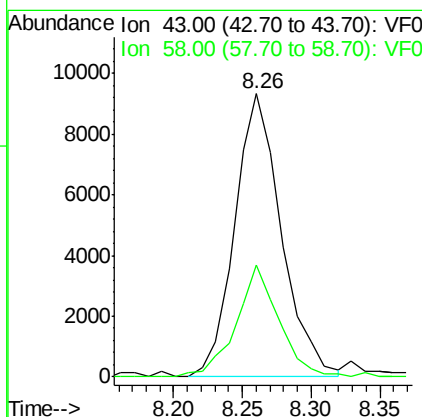
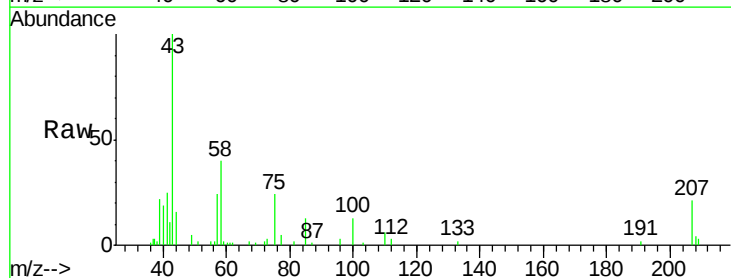
Manual Integrations
APPROVED

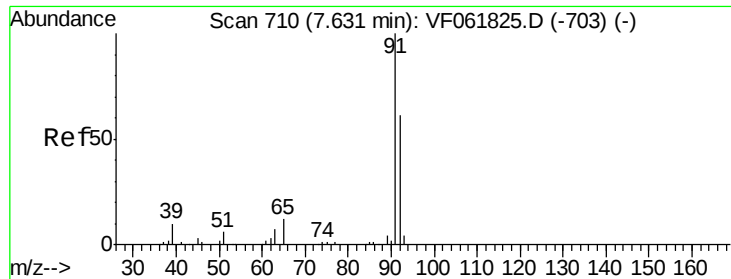
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#51
4-Methyl-2-Pentanone
Concen: 13.520 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 43 Resp: 21996
Ion Ratio Lower Upper
43 100
58 39.5 31.8 47.8





#52

Toluene

Concen: 2.344 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 92 Resp: 16489

Ion Ratio Lower Upper

92 100

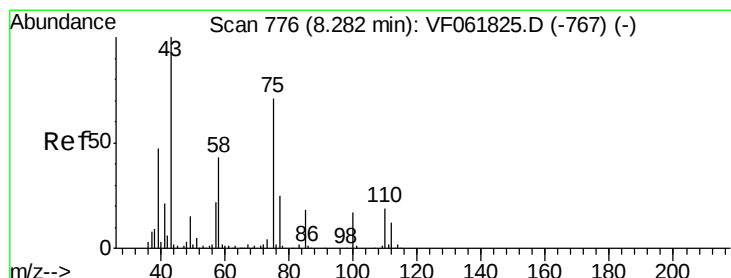
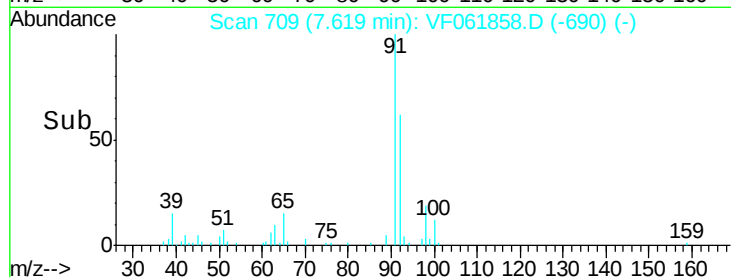
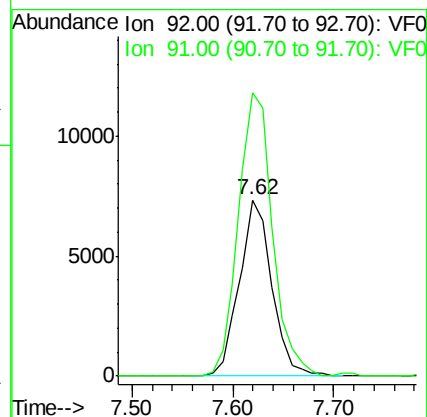
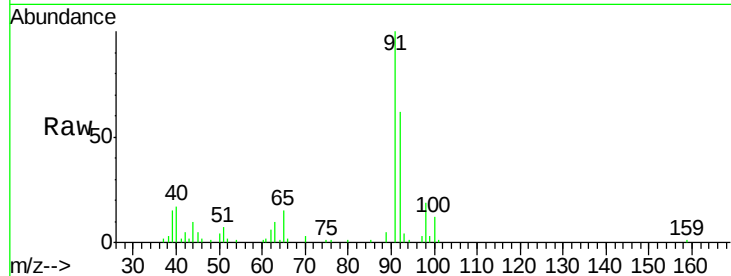
91 160.5 132.0 198.0

Manual Integrations

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#53

t-1,3-Dichloropropene

Concen: 2.829 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF061858.D

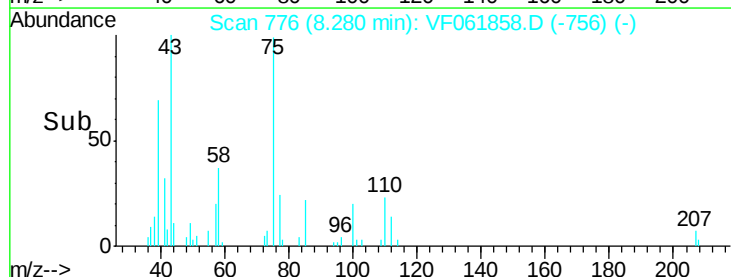
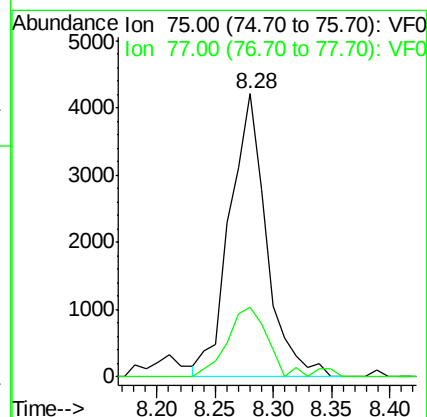
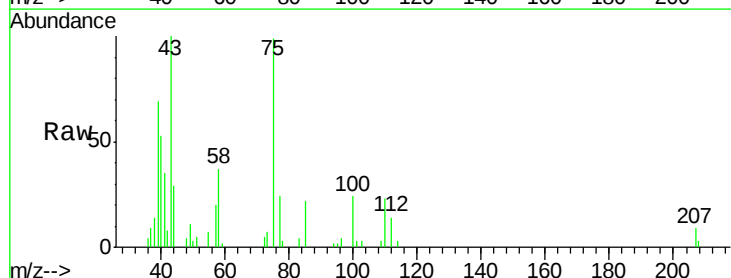
Acq: 5 Mar 2019 21:24

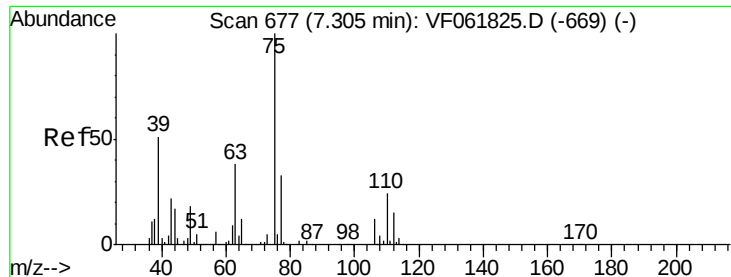
Tgt Ion: 75 Resp: 9183

Ion Ratio Lower Upper

75 100

77 24.6 28.0 42.0#





#54

cis-1,3-Dichloropropene

Concen: 2.418 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

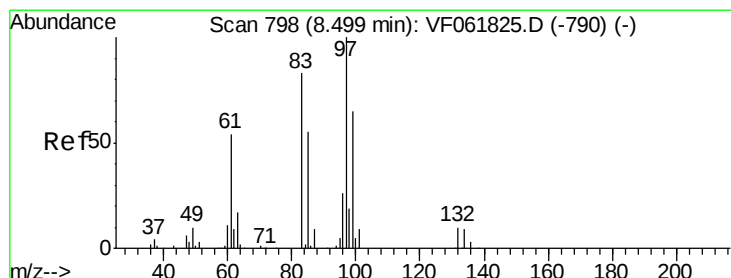
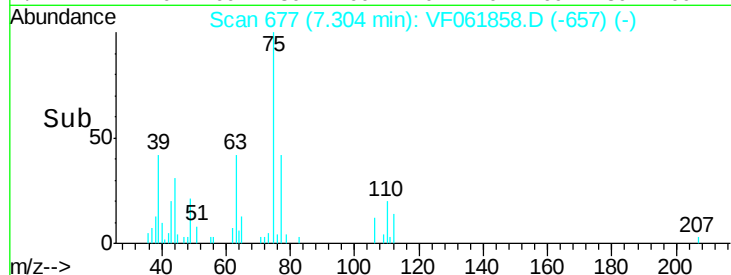
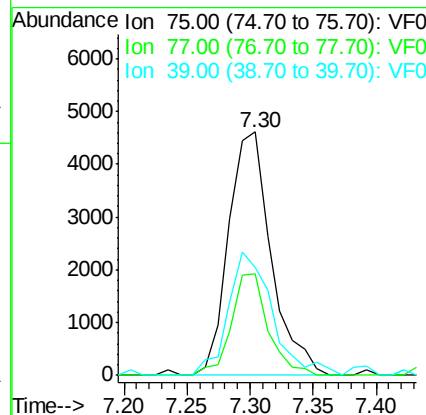
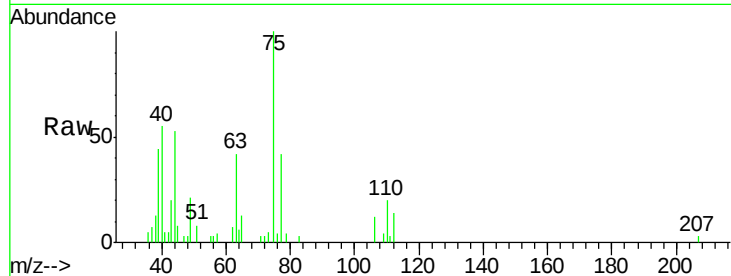
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	75	Resp:	10823
Ion Ratio	Lower	Upper	
75	100		
77	41.9	26.3	39.5#
39	44.3	40.8	61.2

Manual Integrations
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#55

1,1,2-Trichloroethane

Concen: 2.361 ug/l

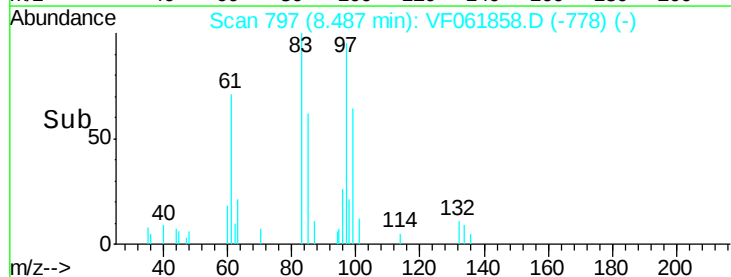
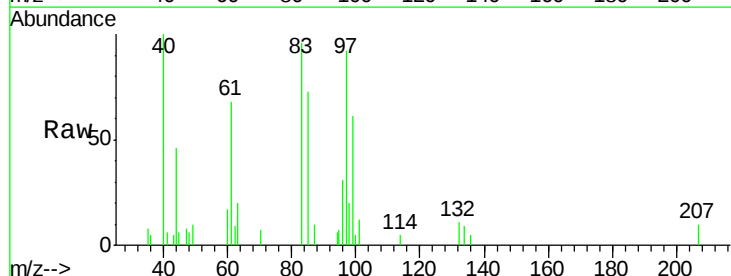
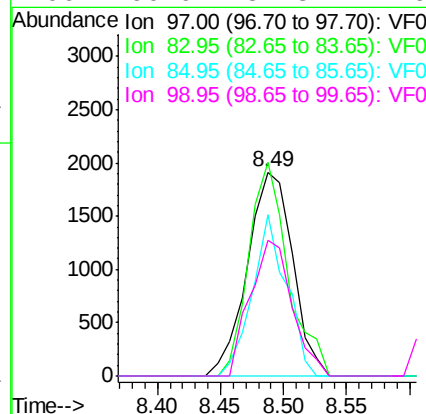
RT: 8.49 min Scan# 797

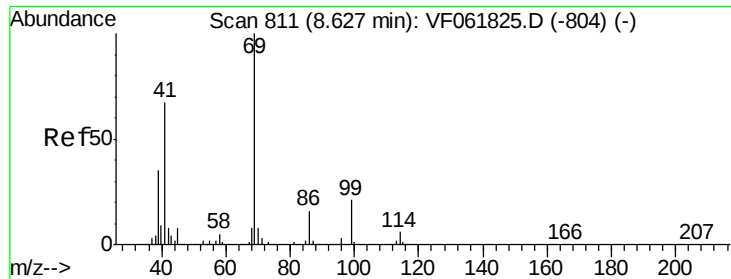
Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion:	97	Resp:	4785
Ion Ratio	Lower	Upper	
97	100		
83	104.8	66.5	99.7#
85	79.2	44.2	66.2#
99	66.9	51.8	77.6





#56

Ethyl methacrylate

Concen: 2.468 ug/l

RT: 8.63 min Scan# 811

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

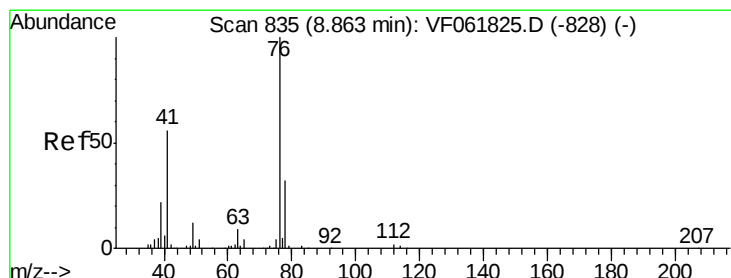
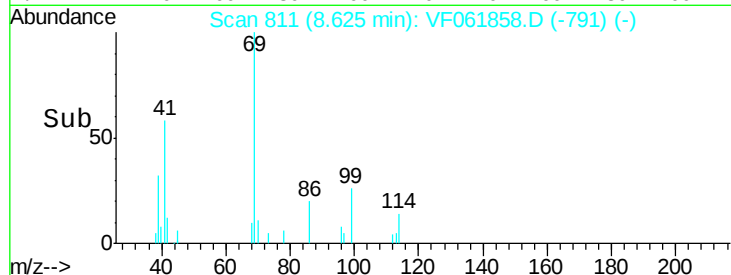
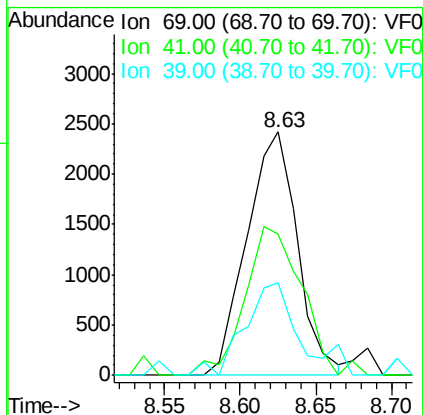
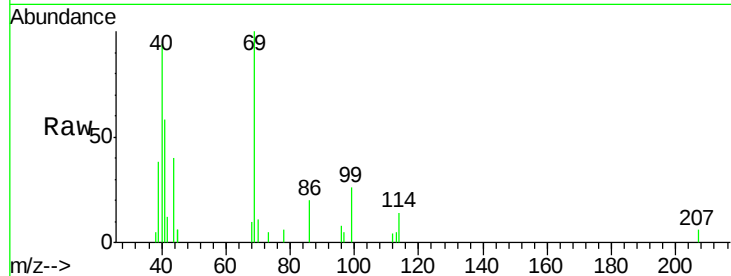
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	69	Resp:	5638
Ion	Ratio	Lower	Upper
69	100		
41	58.2	53.9	80.9
39	37.9	28.3	42.5

Manual Integrations
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#57

1,3-Dichloropropane

Concen: 2.326 ug/l

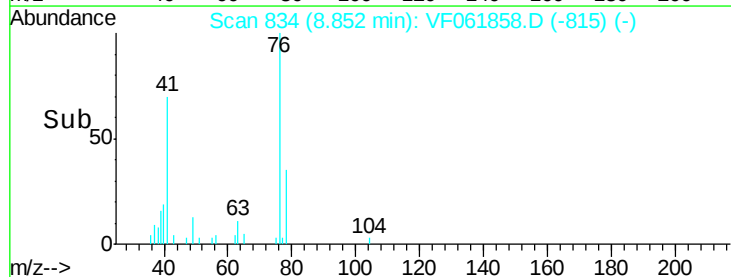
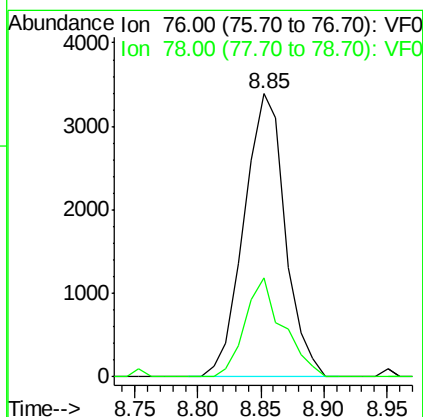
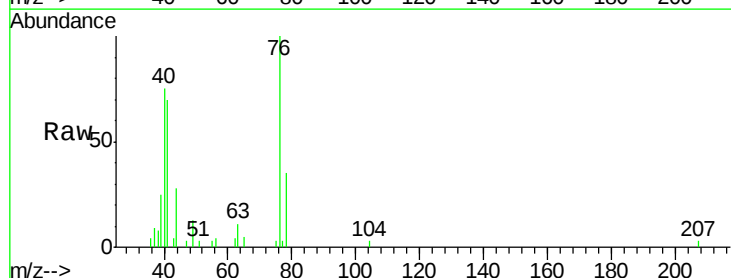
RT: 8.85 min Scan# 834

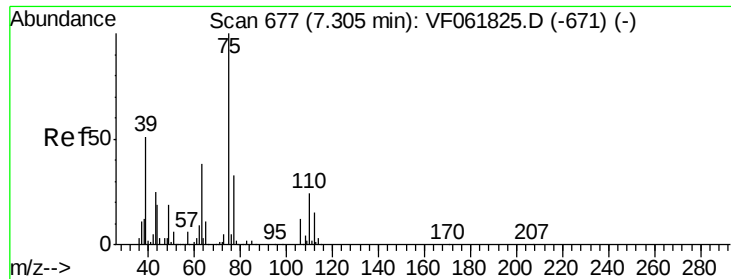
Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion:	76	Resp:	7712
Ion	Ratio	Lower	Upper
76	100		
78	34.9	25.4	38.2





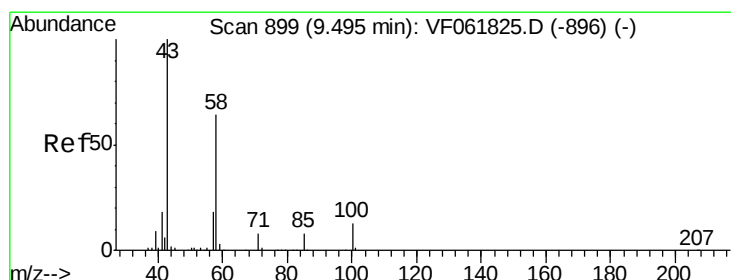
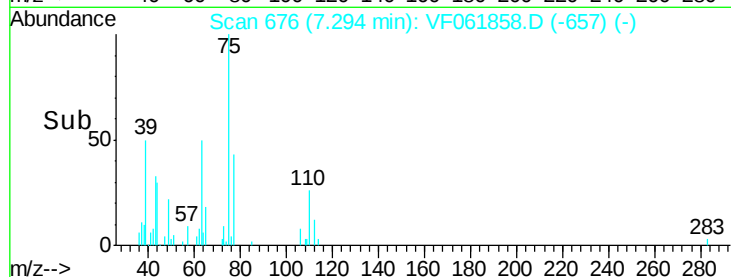
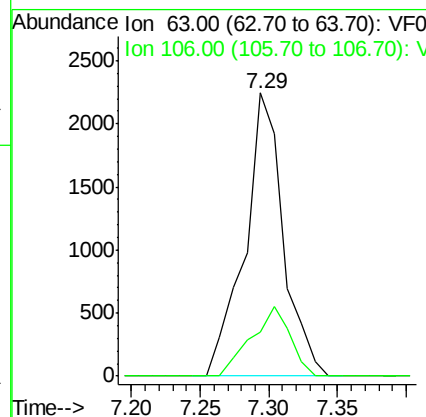
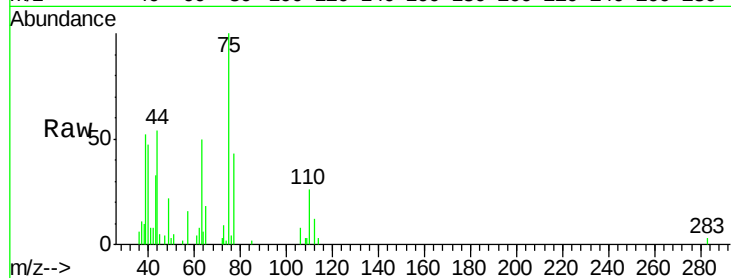
#58
2-Chloroethyl Vinyl ether
Concen: 12.082 ug/l
RT: 7.29 min Scan# 676
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 63 Resp: 4366
Ion Ratio Lower Upper
63 100
106 15.6 24.3 36.5#

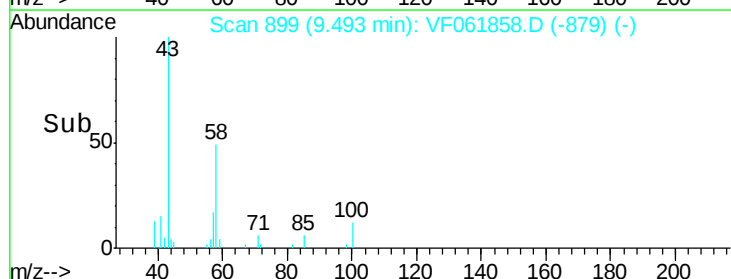
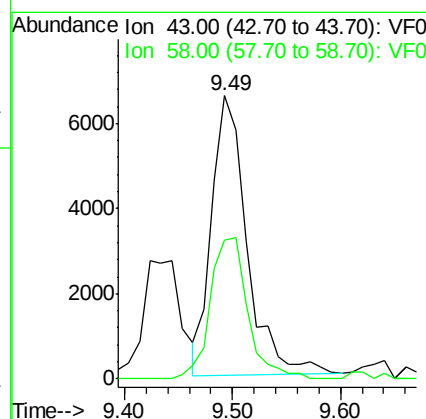
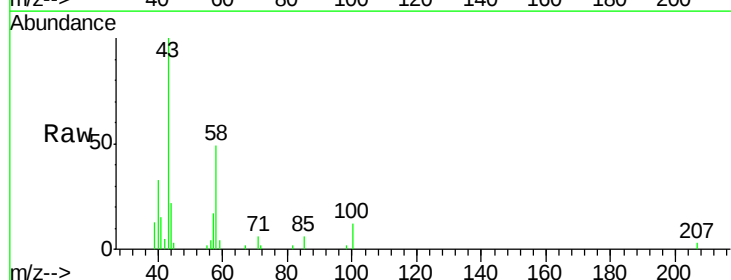
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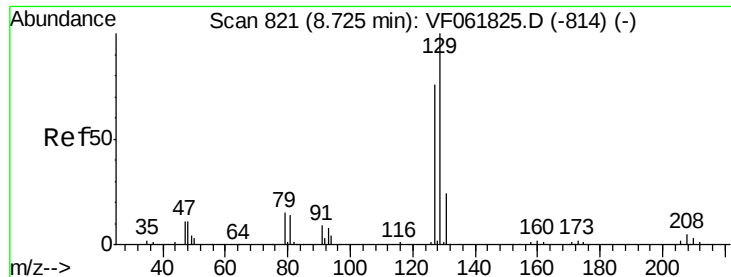
MMDadoda
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#59
2-Hexanone
Concen: 12.756 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion: 43 Resp: 14971
Ion Ratio Lower Upper
43 100
58 49.1 28.8 86.4





#60

Dibromochloromethane

Concen: 2.353 ug/l

RT: 8.71 min Scan# 820

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:129 Resp: 6799

Ion Ratio Lower Upper

129 100

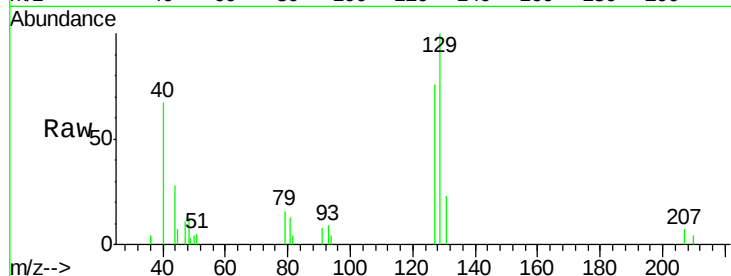
127 76.1 38.2 114.6

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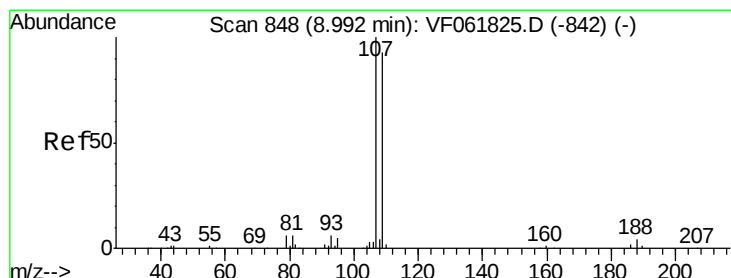
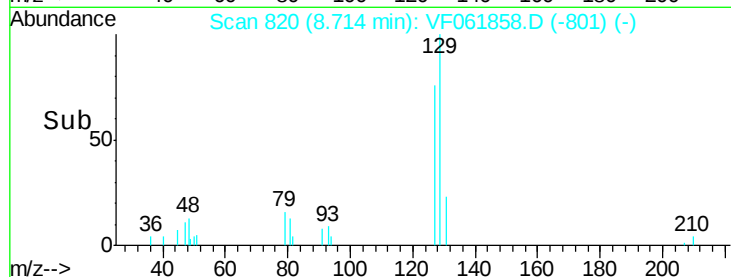
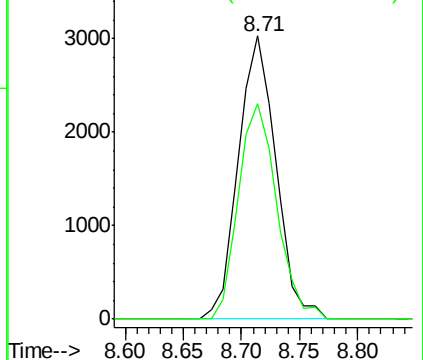
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#61

1,2-Dibromoethane

Concen: 2.288 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061858.D

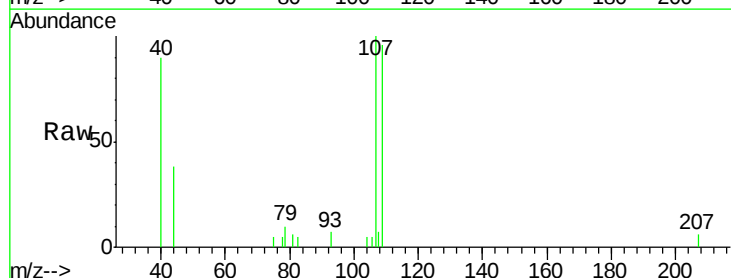
Acq: 5 Mar 2019 21:24

Tgt Ion:107 Resp: 5099

Ion Ratio Lower Upper

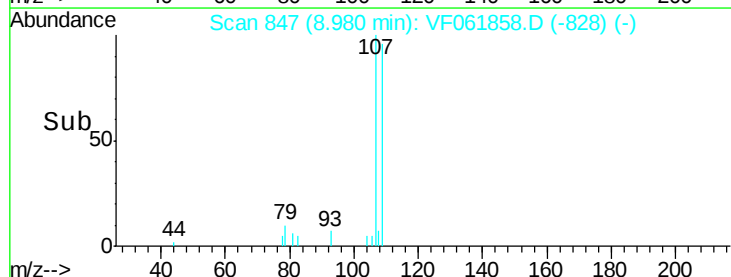
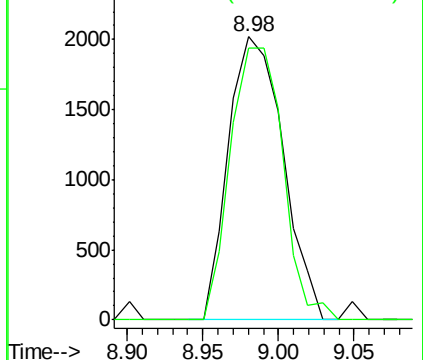
107 100

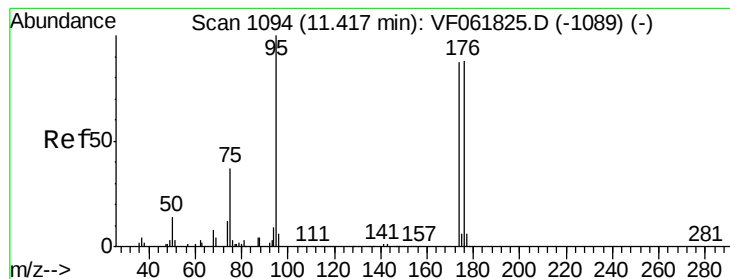
109 95.8 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#62

4-Bromofluorobenzene

Concen: 49.810 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

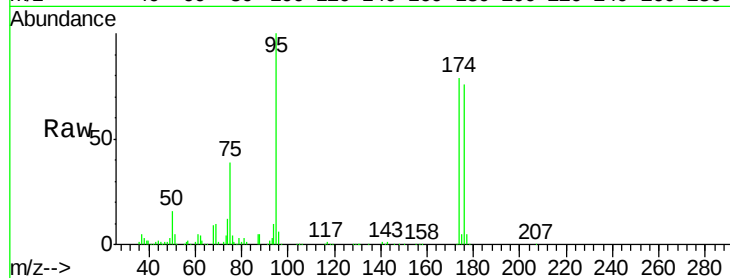
ClientSampleId :

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Tot Ion:	95	Resp:	194936
Ion Ratio	Lower	Upper	
95	100		
174	79.3	0.0	174.0
176	76.0	0.0	175.2

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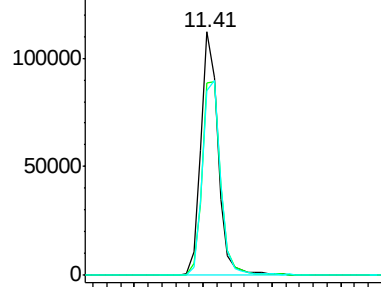
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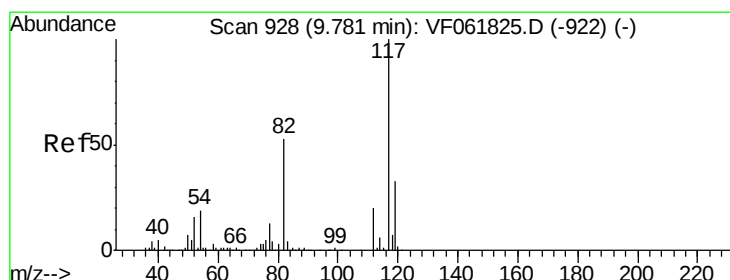
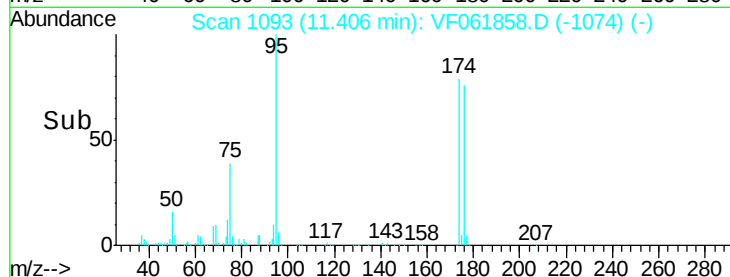
Abundance Ion 95.00 (94.70 to 95.70): VF061825.D (-1089) (-)

Ion 174.00 (173.70 to 174.70): VF061825.D (-1089) (-)

Ion 176.00 (175.70 to 176.70): VF061825.D (-1089) (-)



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

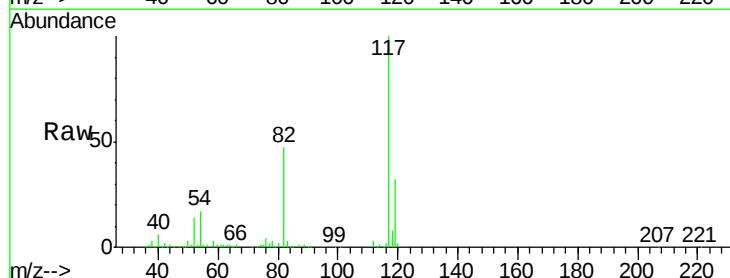
RT: 9.78 min Scan# 928

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

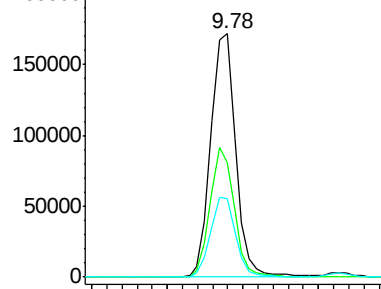
Tgt Ion:	117	Resp:	392934
Ion Ratio	Lower	Upper	
117	100		
82	46.8	42.6	63.8
119	32.1	26.0	39.0



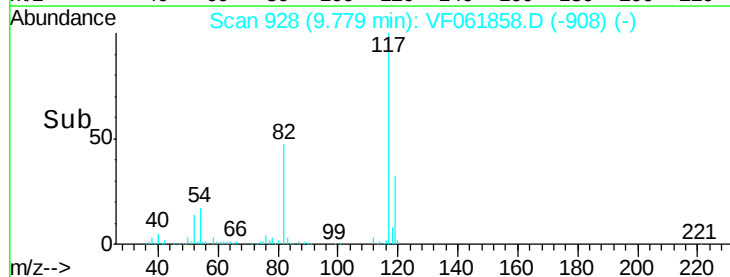
Abundance Ion 117.00 (116.70 to 117.70): VF061825.D (-922) (-)

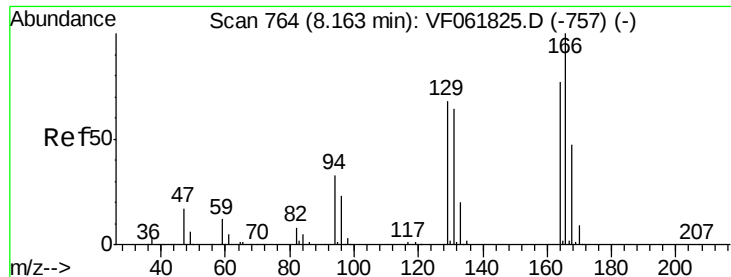
Ion 82.00 (81.70 to 82.70): VF061825.D (-922) (-)

Ion 119.00 (118.70 to 119.70): VF061825.D (-922) (-)



Time-->





#64

Tetrachloroethene

Concen: 3.042 ug/l

RT: 8.15 min Scan# 763

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

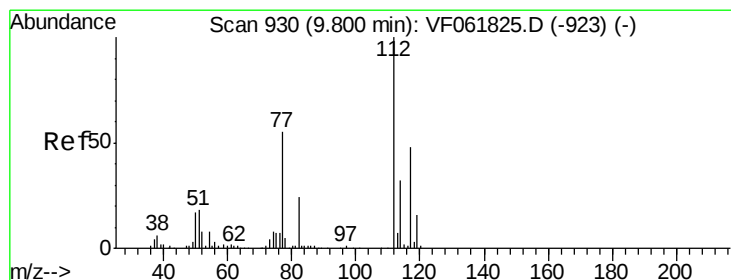
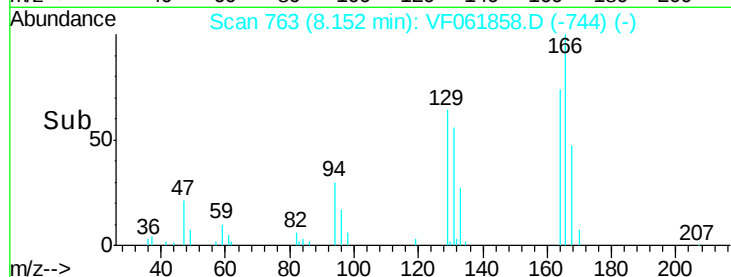
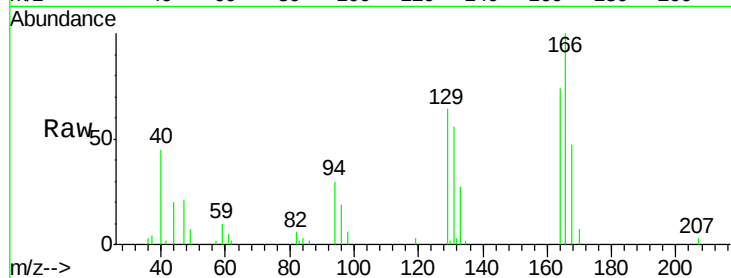
ClientSampleId :

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Tot Ion:	164	Resp:	9185
Ion	Ratio	Lower	Upper
164	100		
166	135.5	103.4	155.0
129	86.9	69.9	104.9
131	76.3	66.4	99.6

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#65

Chlorobenzene

Concen: 2.645 ug/l

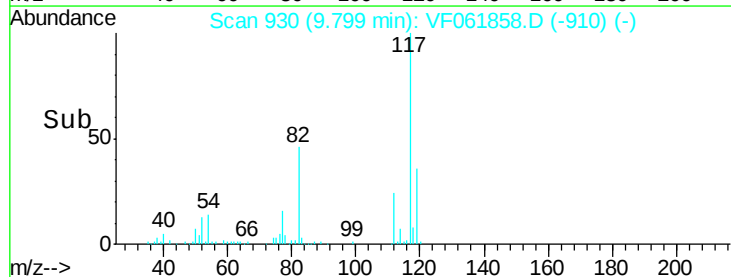
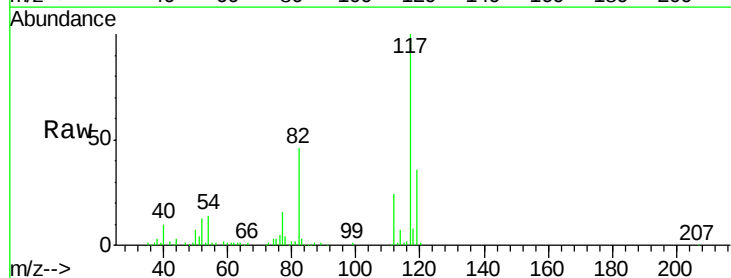
RT: 9.80 min Scan# 930

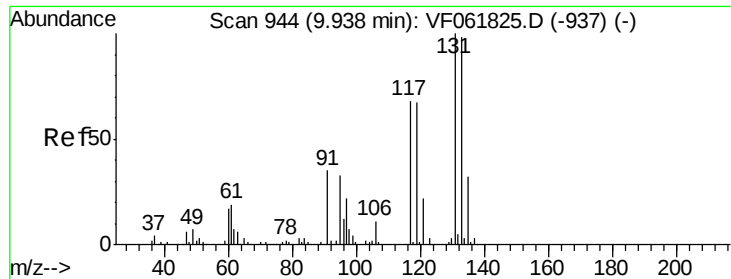
Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion:	112	Resp:	19965
Ion	Ratio	Lower	Upper
112	100		
114	30.6	25.5	38.3





#66

1,1,1,2-Tetrachloroethane

Concen: 2.685 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

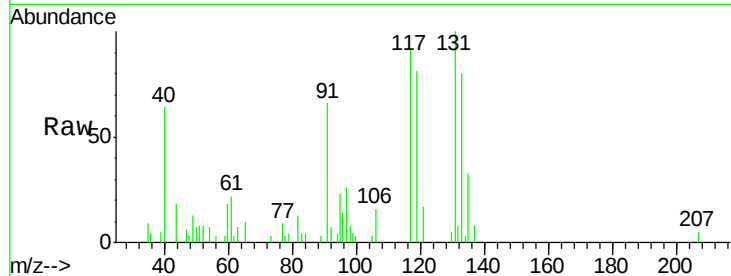
ClientSampleId :

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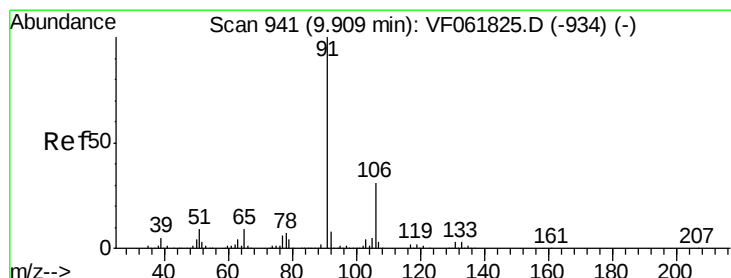
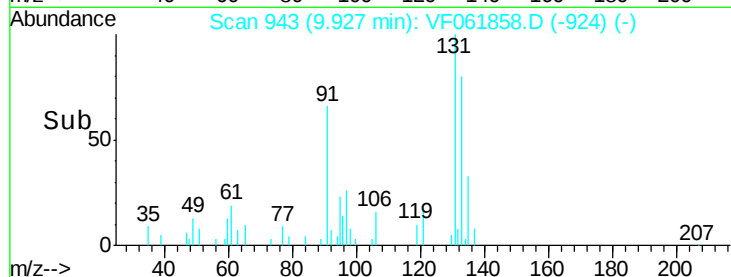
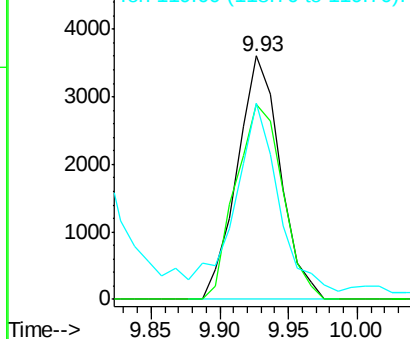
Tot Ion:	131	Resp:	7852
Ion Ratio	Lower	Upper	
131	100		
133	79.9	48.9	146.7
119	80.7	33.6	100.8

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Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 2.716 ug/l

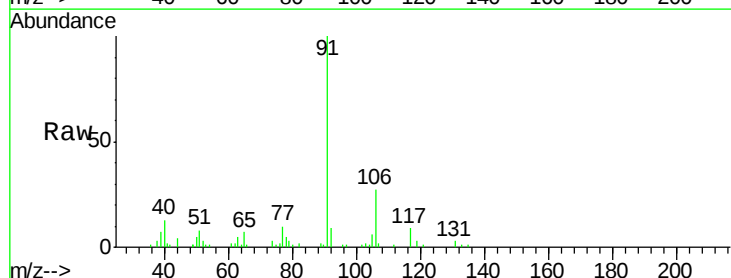
RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

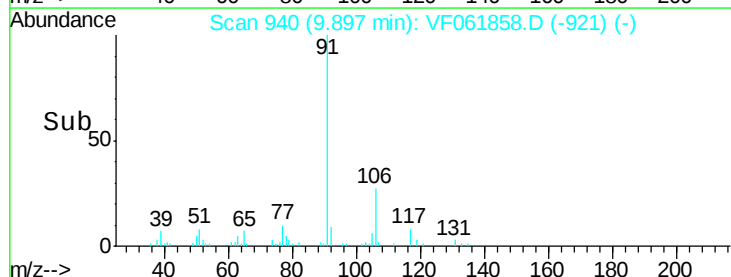
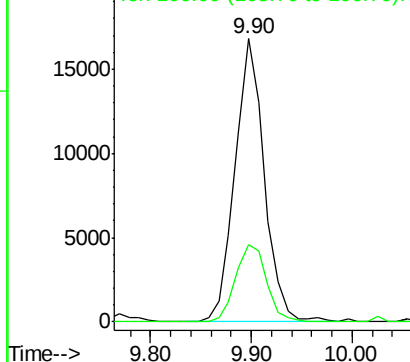
Lab File: VF061858.D

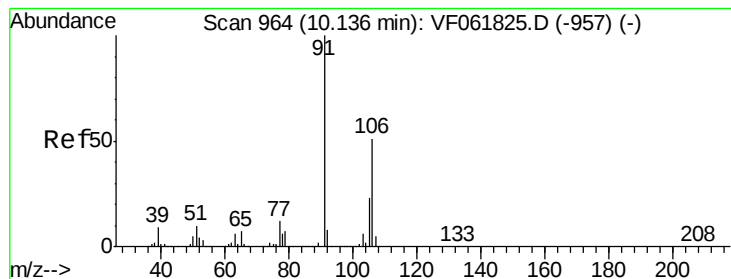
Acq: 5 Mar 2019 21:24

Tgt Ion:	91	Resp:	33982
Ion Ratio	Lower	Upper	
91	100		
106	27.3	25.0	37.4



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 5.145 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tot Ion:106 Resp: 24663

Ion Ratio Lower Upper

106 100

91 208.7 157.5 236.3

Instrument :

MSVOA_F

ClientSampleId :

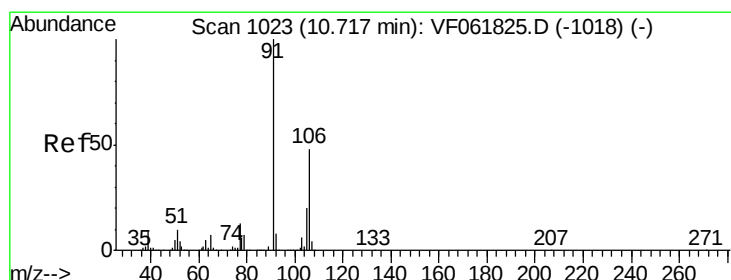
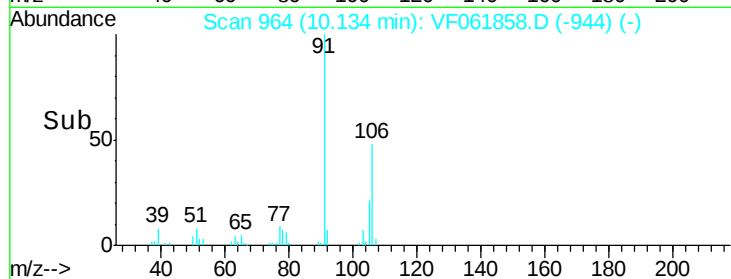
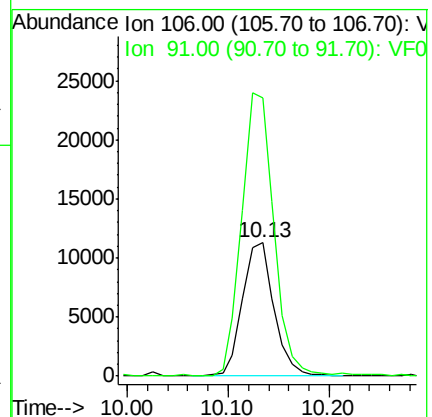
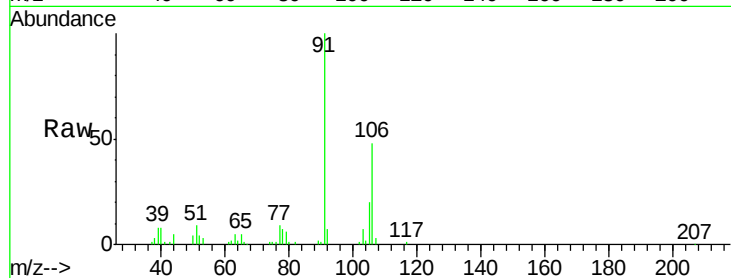
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#69

o-Xylene

Concen: 2.481 ug/l

RT: 10.71 min Scan# 1022

Delta R.T. -0.01 min

Lab File: VF061858.D

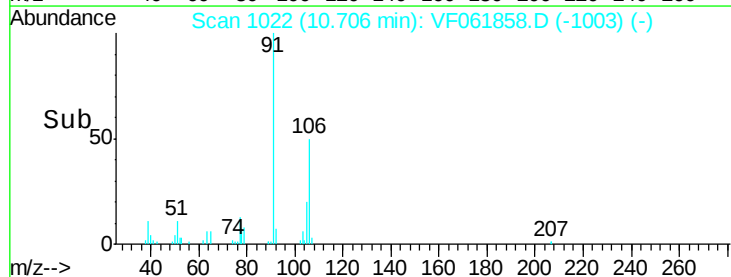
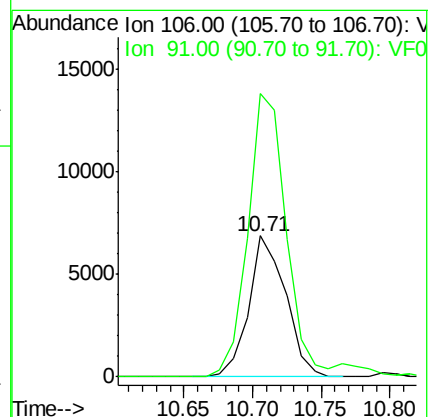
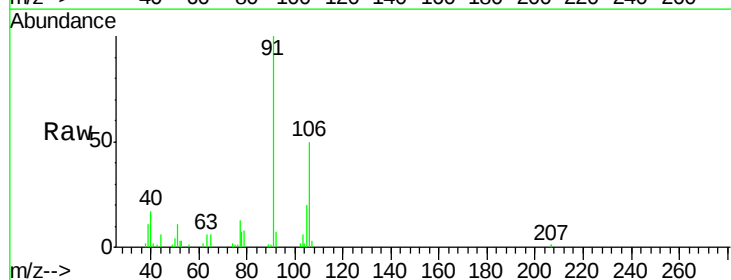
Acq: 5 Mar 2019 21:24

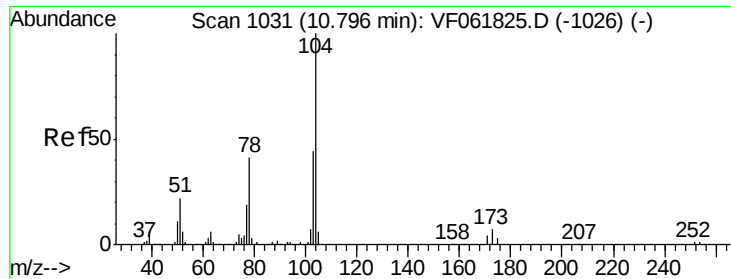
Tgt Ion:106 Resp: 12805

Ion Ratio Lower Upper

106 100

91 200.6 103.5 310.3





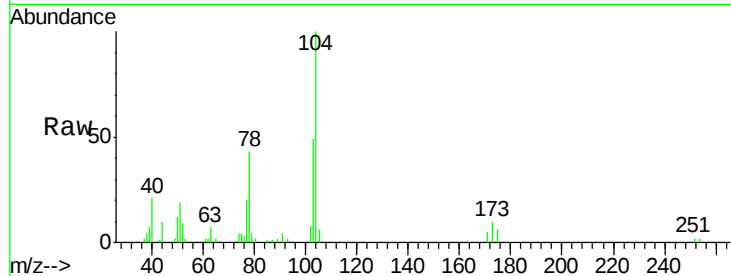
#70
Stvrene
Concen: 2.754 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

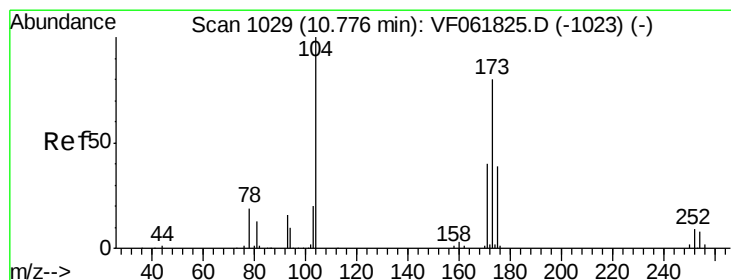
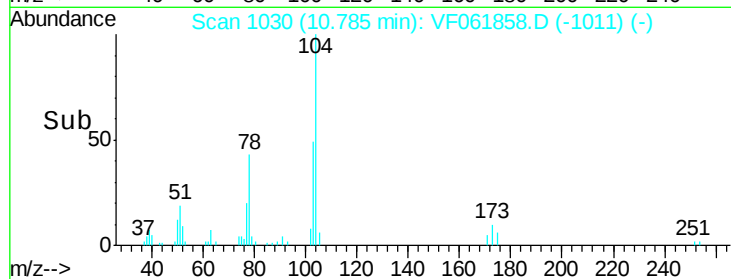
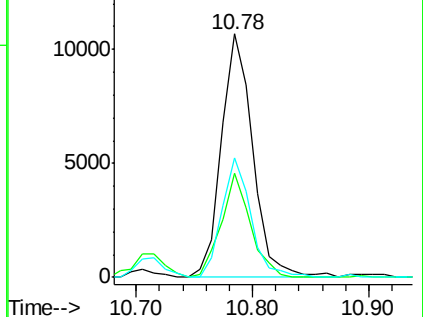
Tot Ion	Ratio	Lower	Upper
104	100		
78	42.7	33.3	49.9
103	48.9	35.4	53.0

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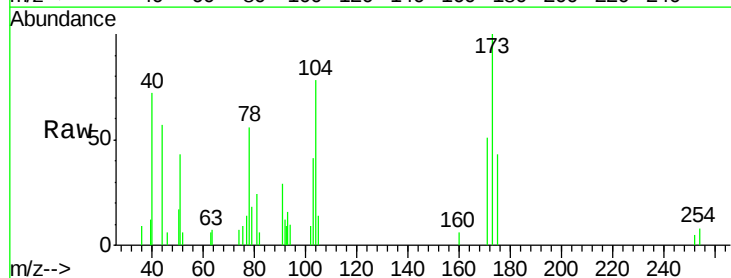


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

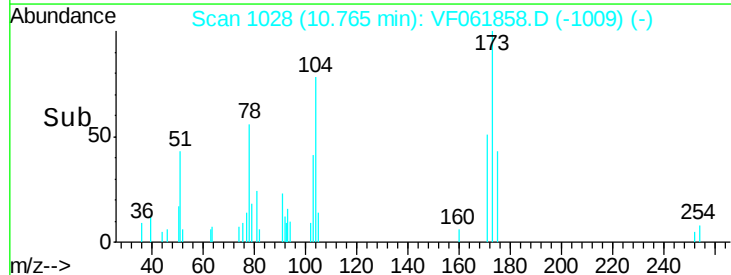
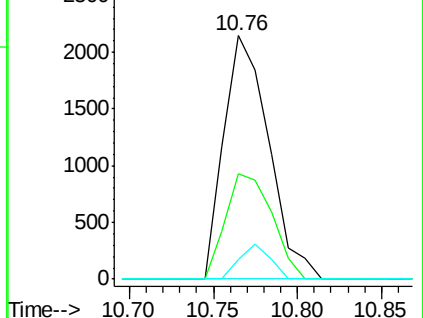


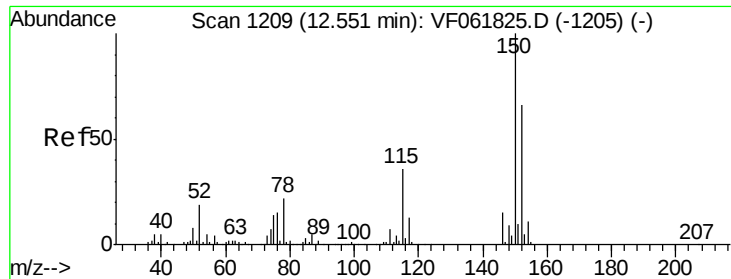
#71
Bromoform
Concen: 2.570 ug/l
RT: 10.76 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
173	100		
175	43.2	24.5	73.5
254	8.1	8.0	12.0



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:152 Resp: 231606

Ion Ratio Lower Upper

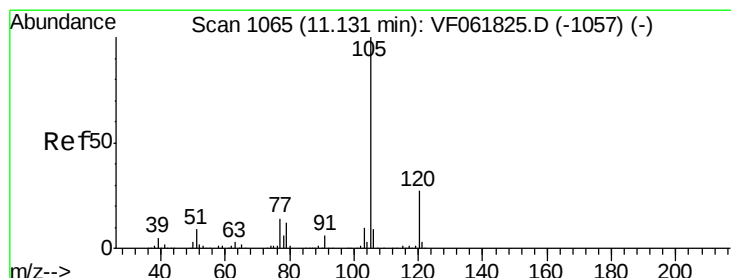
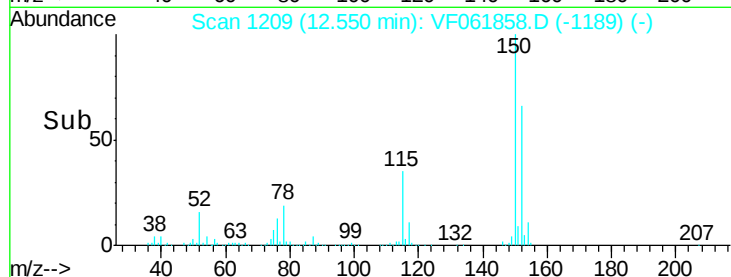
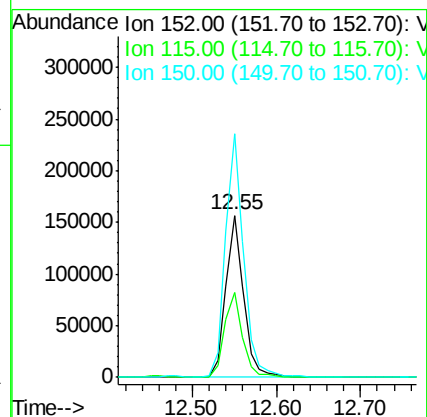
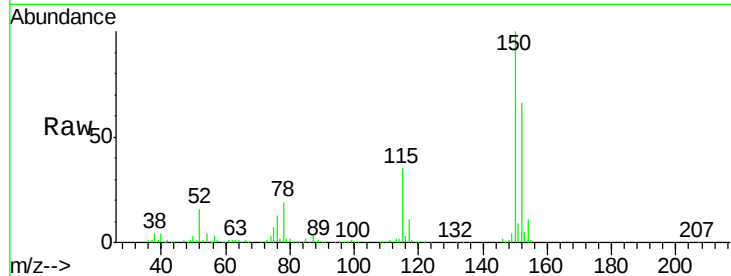
152 100

115 52.2 27.7 83.1

150 150.6 0.0 304.2

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#73

Isopropylbenzene

Concen: 2.256 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061858.D

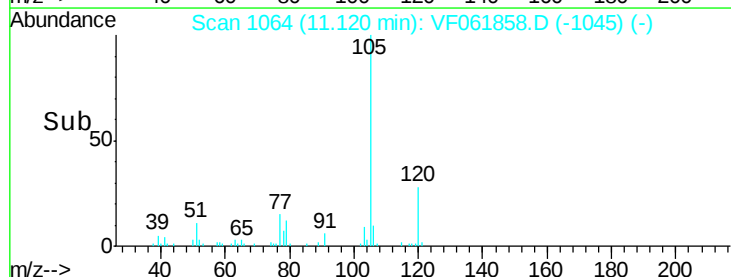
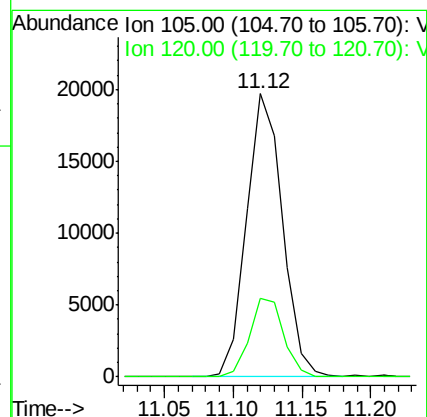
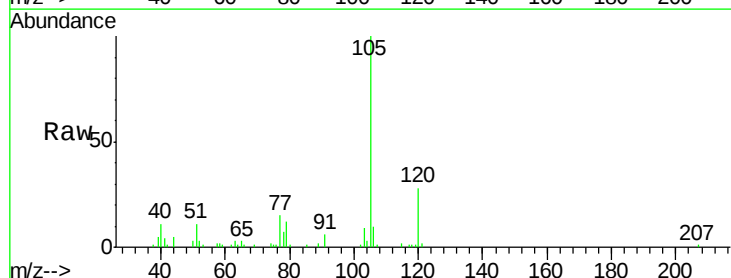
Acq: 5 Mar 2019 21:24

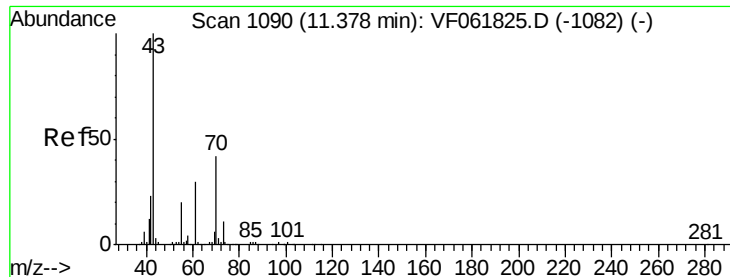
Tgt Ion:105 Resp: 35973

Ion Ratio Lower Upper

105 100

120 27.6 13.7 41.0





#74

N-amvl acetate

Concen: 2.641 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

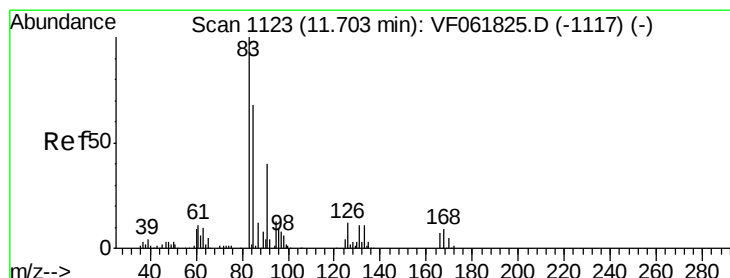
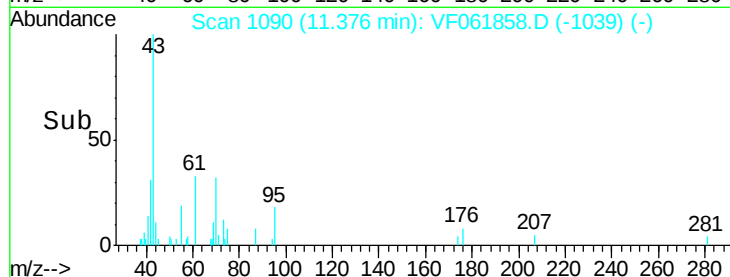
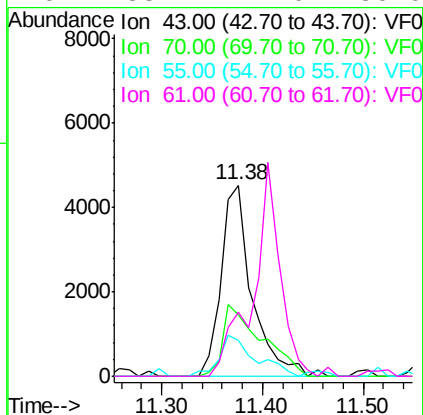
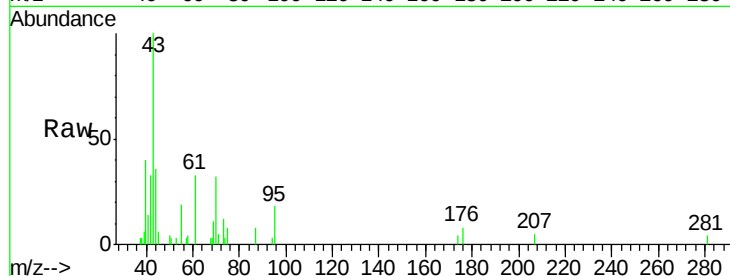
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	43	Resp:	9696
Ion	Ratio	Lower	Upper
43	100		
70	32.1	33.4	50.0#
55	18.8	16.3	24.5
61	33.2	24.0	36.0

Manual Integrations
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MMDadoda
3/8/2019 10:59:27 AM



#75

1,1,2,2-Tetrachloroethane

Concen: 2.643 ug/l

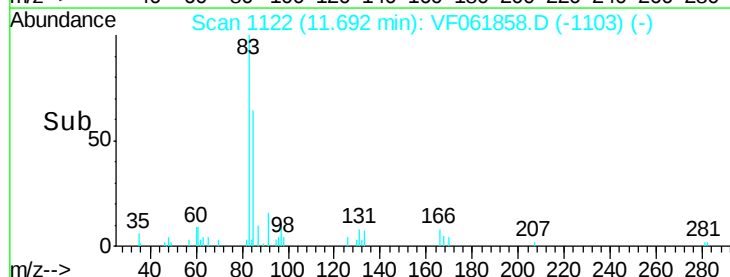
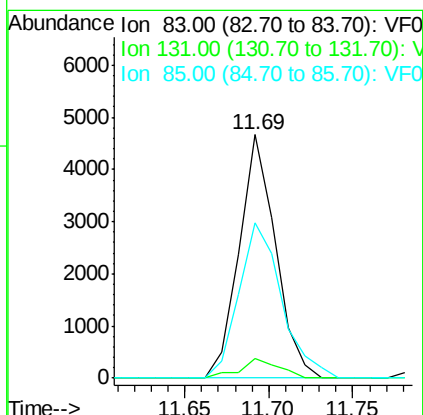
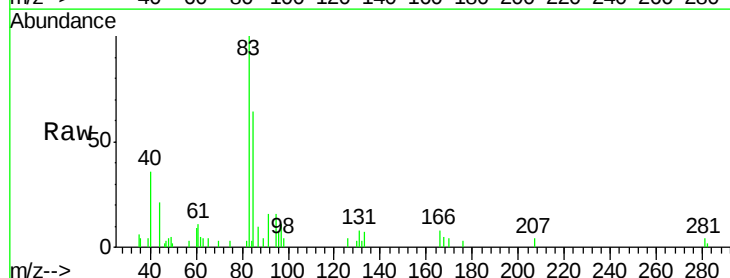
RT: 11.69 min Scan# 1122

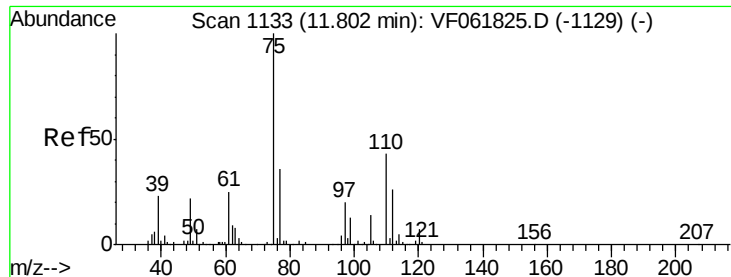
Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion:	83	Resp:	7003
Ion	Ratio	Lower	Upper
83	100		
131	8.1	5.5	16.7
85	63.5	34.2	102.6





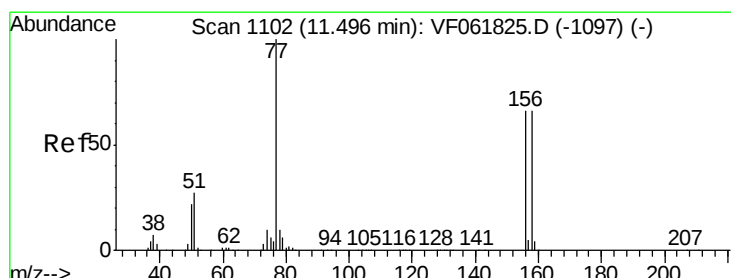
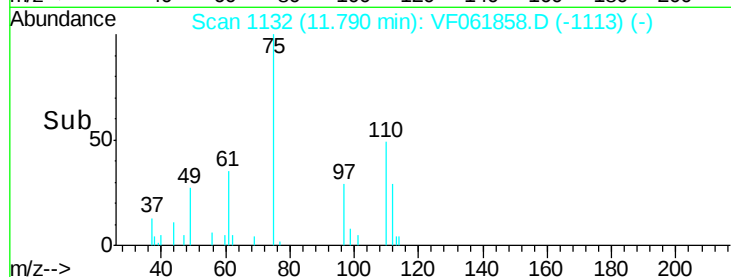
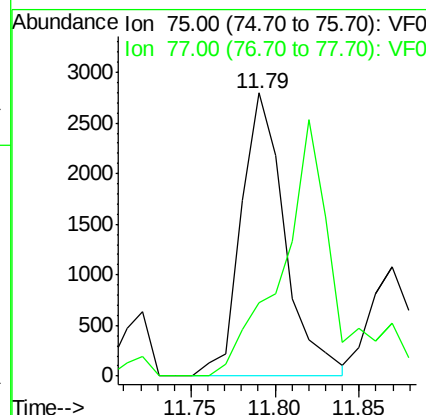
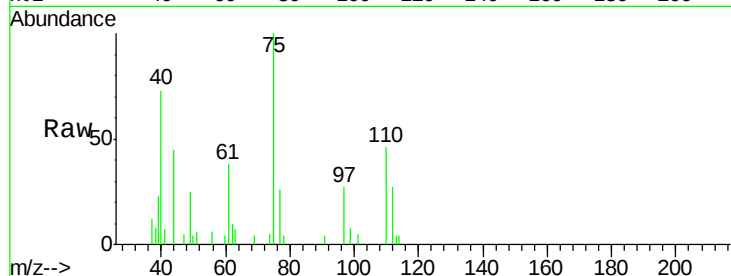
#76
 1,2,3-Trichloropropane
 Concen: 2.785 ug/l
 RT: 11.79 min Scan# 1132
 Delta R.T. -0.01 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	25.8	18.1	54.4

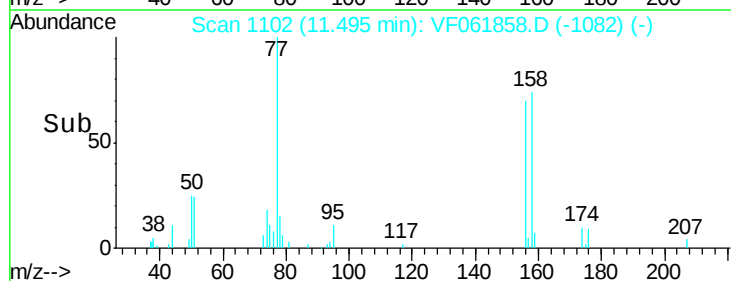
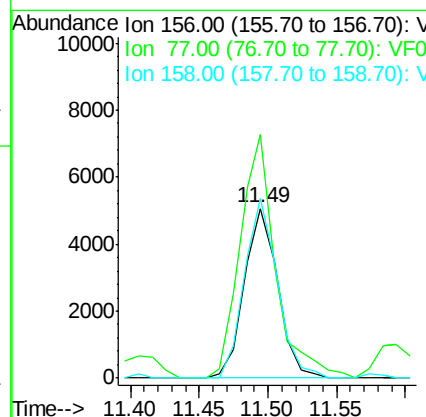
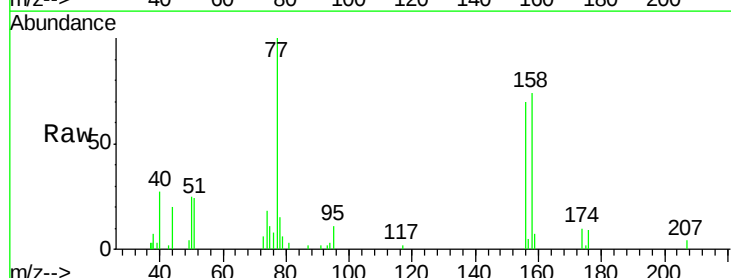
Manual Integrations
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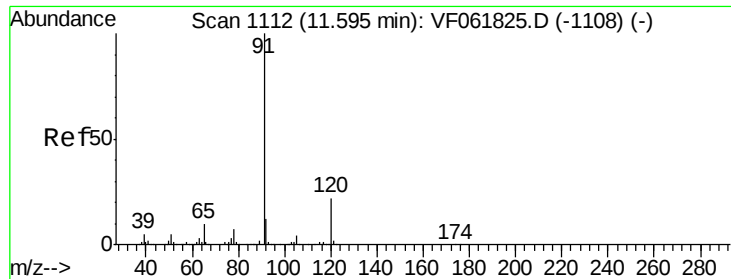
MMDadoda
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#77
 Bromobenzene
 Concen: 2.240 ug/l
 RT: 11.49 min Scan# 1102
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
156	100		
77	143.5	75.7	227.1
158	105.7	50.0	150.1





#78

n-propylbenzene

Concen: 2.625 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 47264

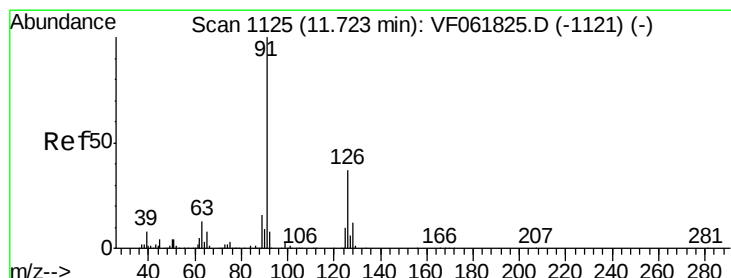
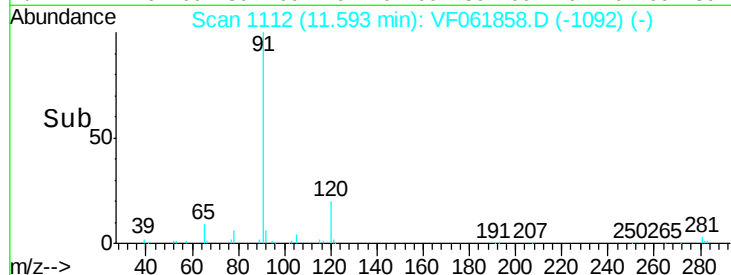
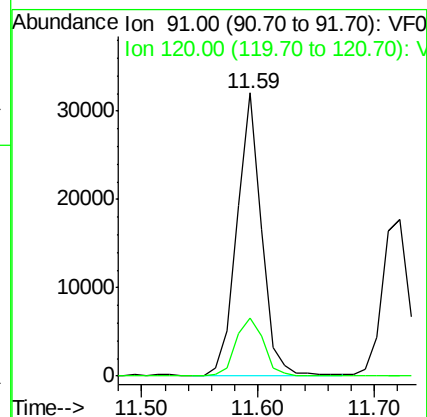
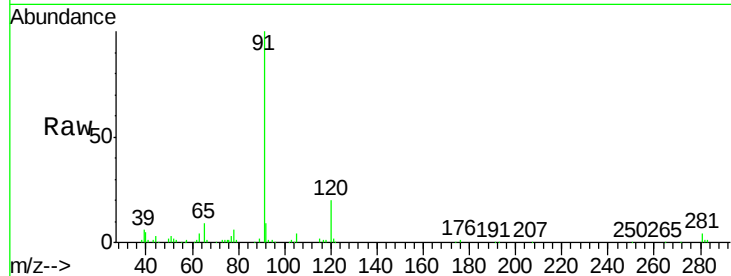
Ion Ratio Lower Upper

91 100

120 20.4 11.1 33.1

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#79

2-Chlorotoluene

Concen: 2.719 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061858.D

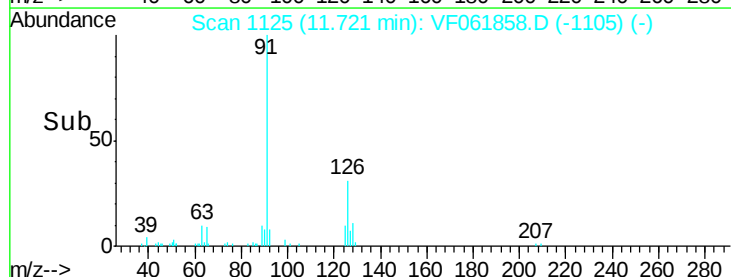
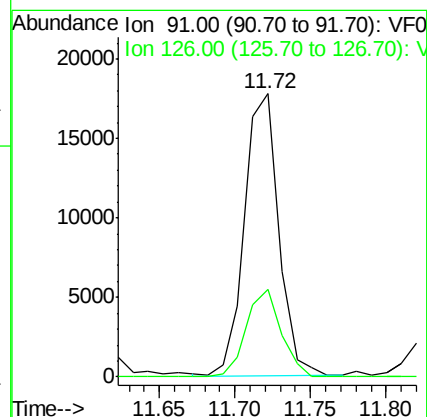
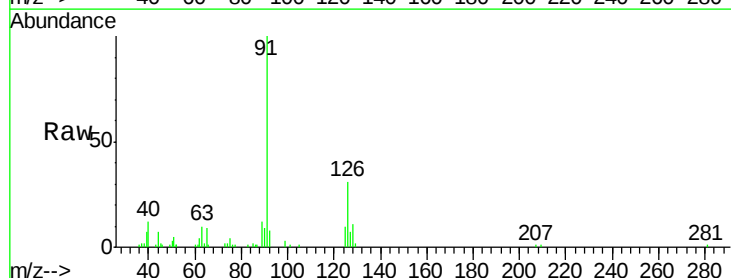
Acq: 5 Mar 2019 21:24

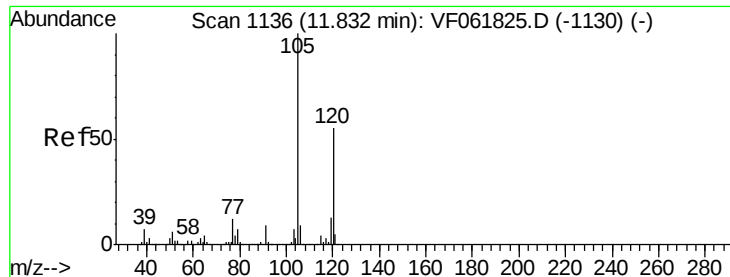
Tgt Ion: 91 Resp: 27987

Ion Ratio Lower Upper

91 100

126 31.0 18.1 54.4





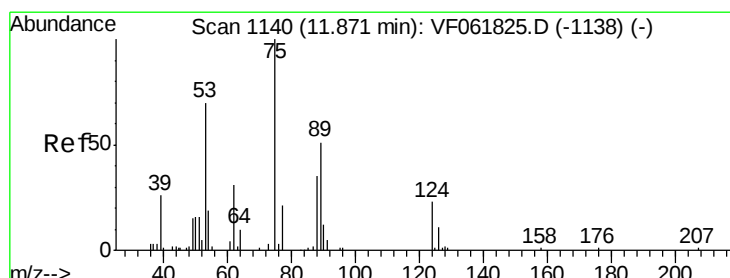
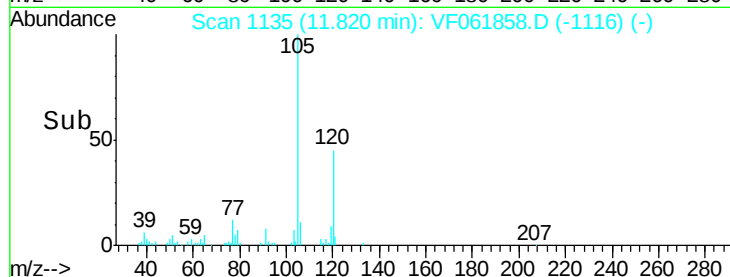
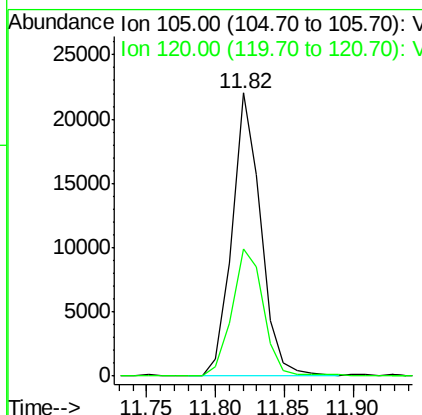
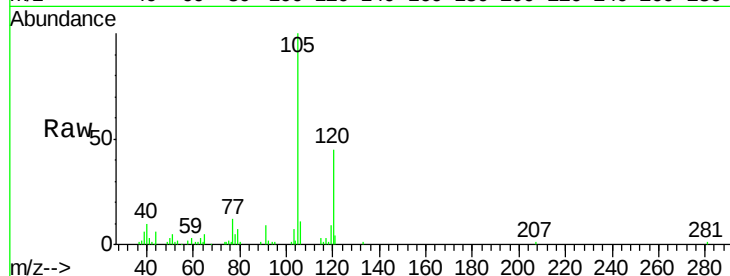
#80
 1,3,5-Trimethylbenzene
 Concen: 2.493 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.01 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion:105 Resp: 31919
 Ion Ratio Lower Upper
 105 100
 120 45.1 27.4 82.2

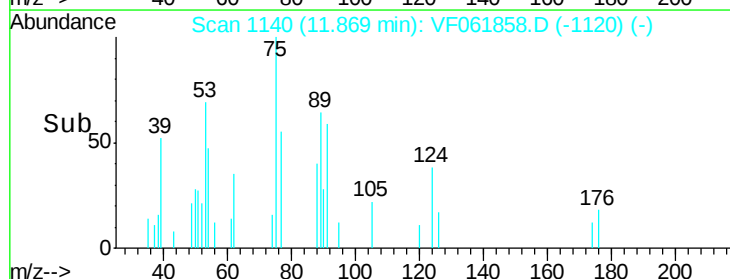
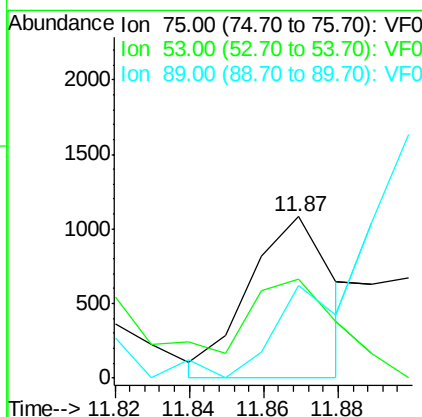
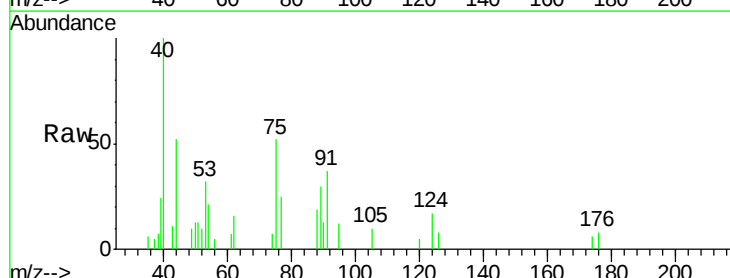
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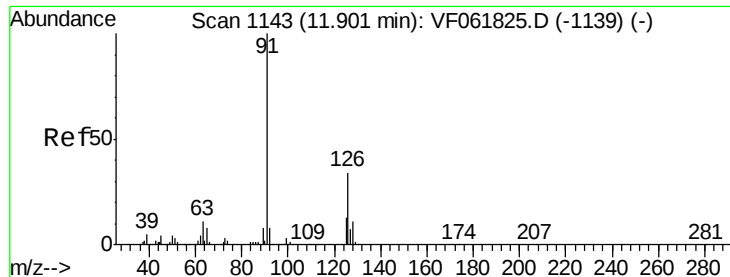
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#81
 trans-1,4-Dichloro-2-butene
 Concen: 2.029 ug/l m
 RT: 11.87 min Scan# 1140
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion: 75 Resp: 1678
 Ion Ratio Lower Upper
 75 100
 53 61.6 58.6 88.0
 89 57.1 41.4 62.0





#82

4-Chlorotoluene

Concen: 2.681 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 28227

Ion Ratio Lower Upper

91 100

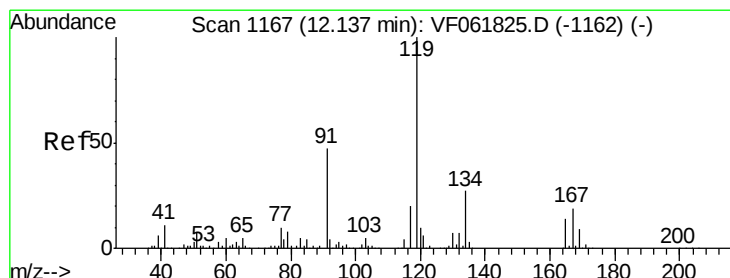
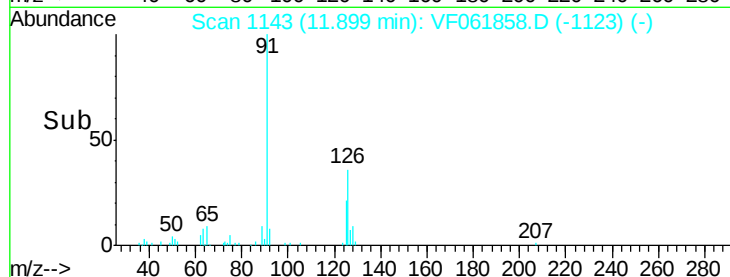
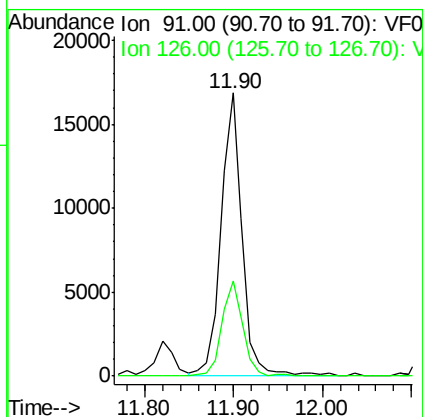
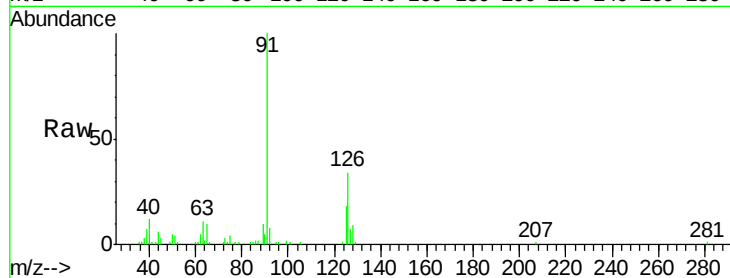
126 33.8 17.0 50.9

Manual Integrations

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#83

tert-Butylbenzene

Concen: 2.401 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

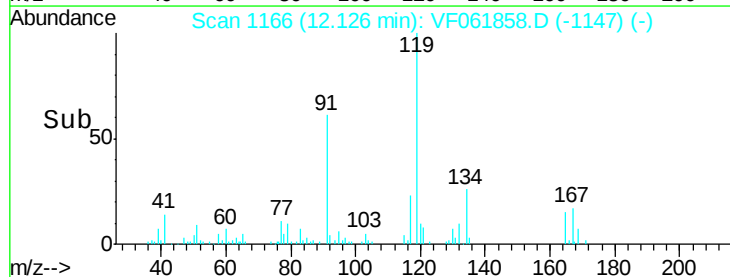
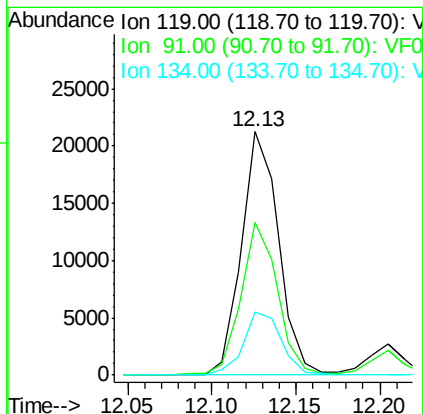
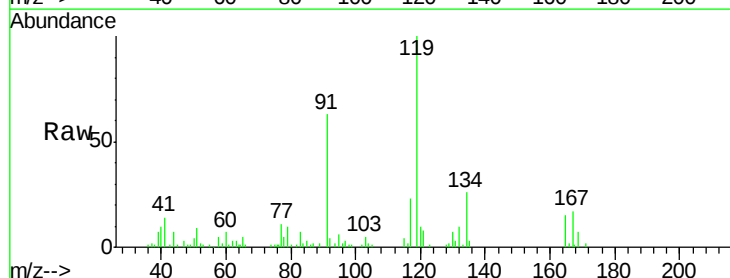
Tgt Ion: 119 Resp: 32639

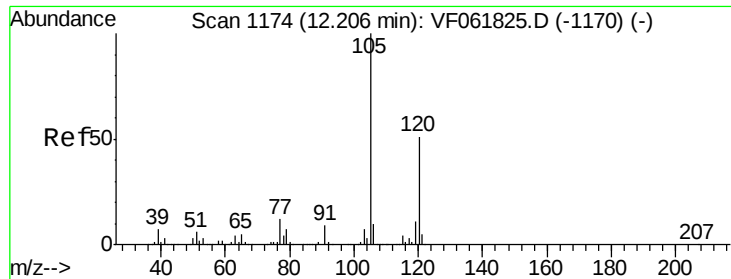
Ion Ratio Lower Upper

119 100

91 62.8 23.5 70.5

134 25.8 13.3 39.8





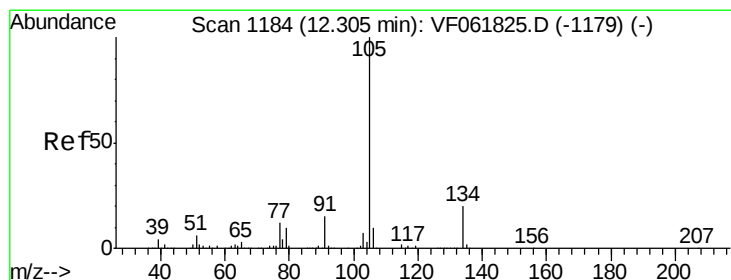
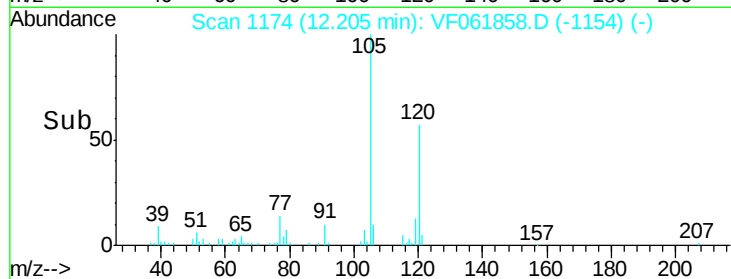
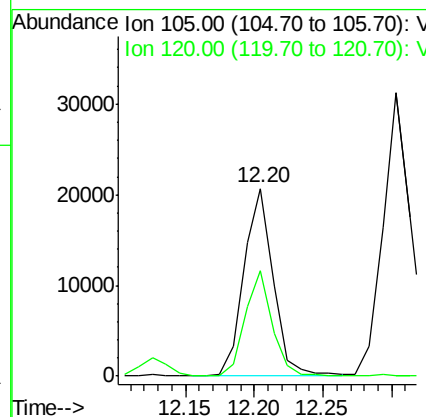
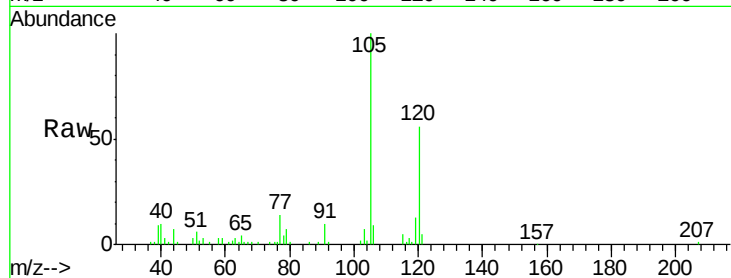
#84
 1,2,4-Trimethylbenzene
 Concen: 2.459 ug/l
 RT: 12.20 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
105	100		
120	56.2	25.8	77.4

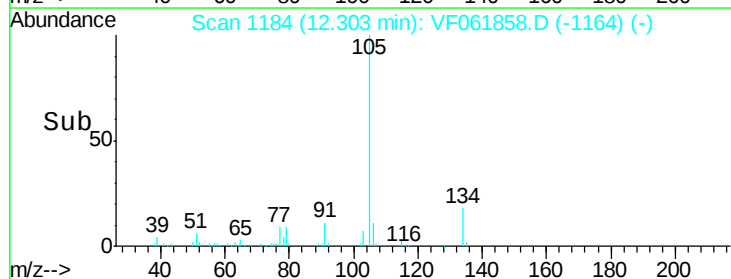
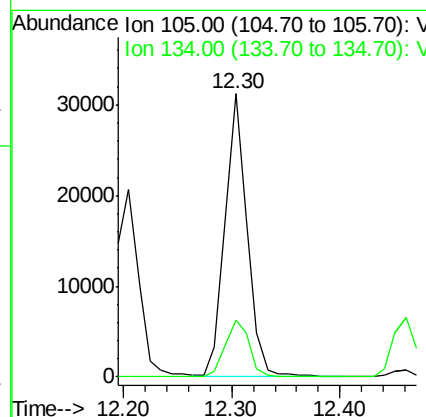
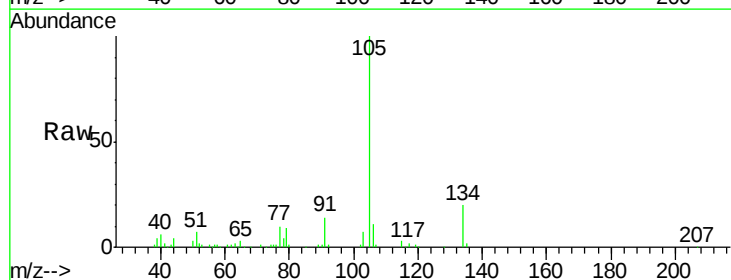
Manual Integrations
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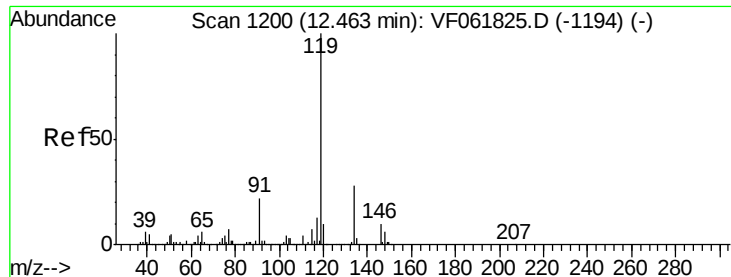
MMDadoda
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#85
 sec-Butylbenzene
 Concen: 2.522 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5





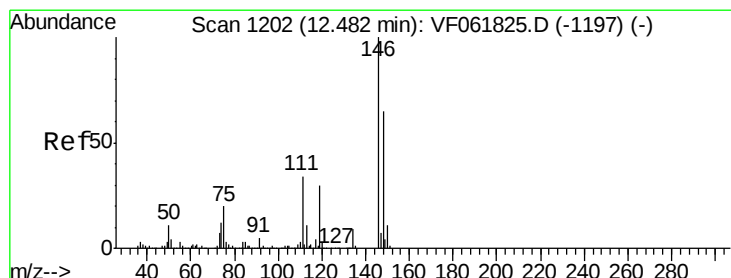
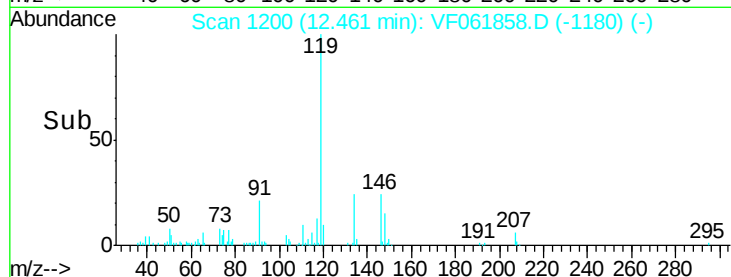
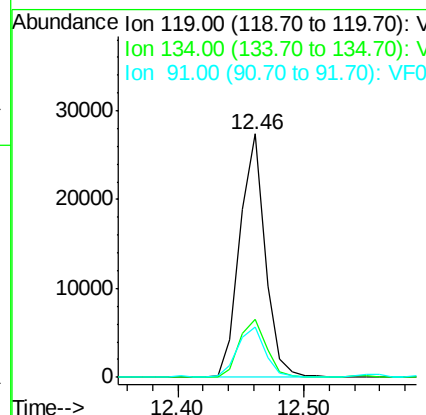
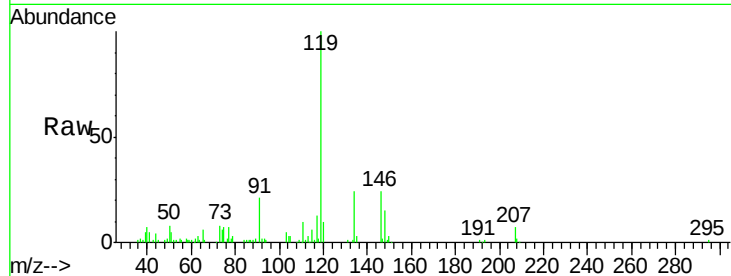
#86
 p-Isopropyltoluene
 Concen: 2.520 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
119	100		
134	23.8	14.0	42.0
91	20.6	11.1	33.3

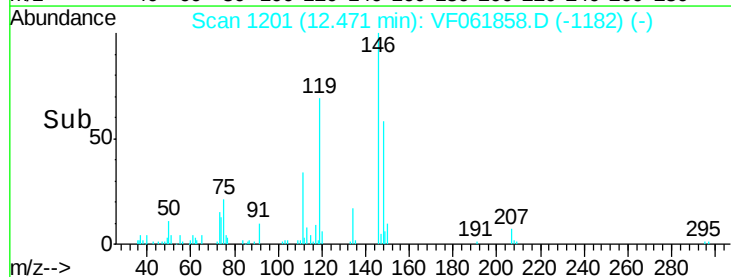
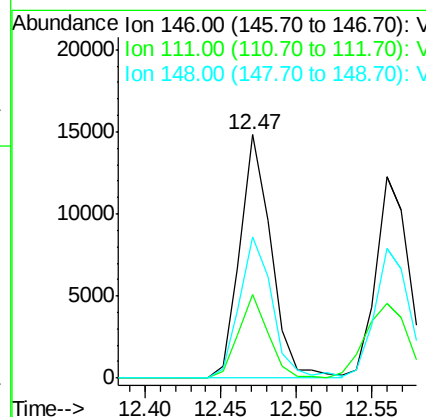
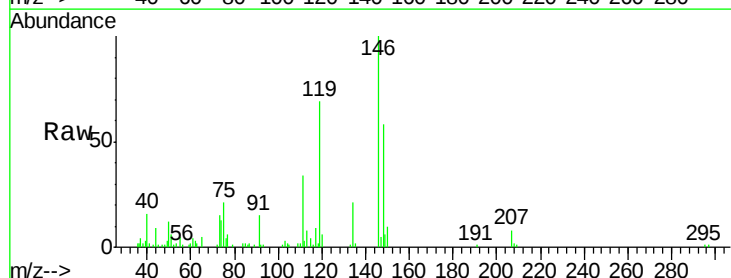
Manual Integrations
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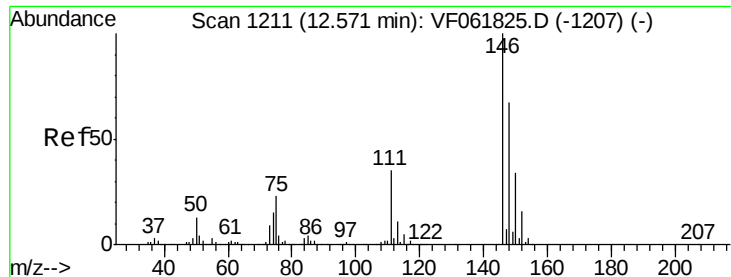
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#87
 1,3-Dichlorobenzene
 Concen: 2.944 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.1	17.0	51.0
148	58.2	32.5	97.5





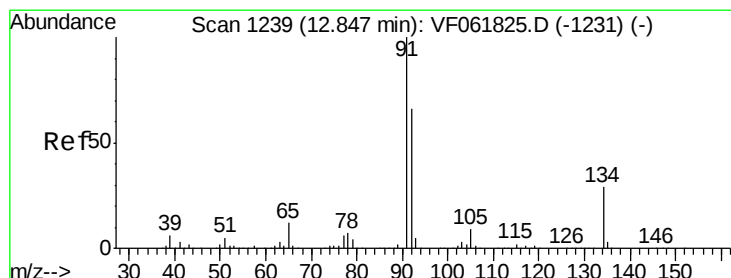
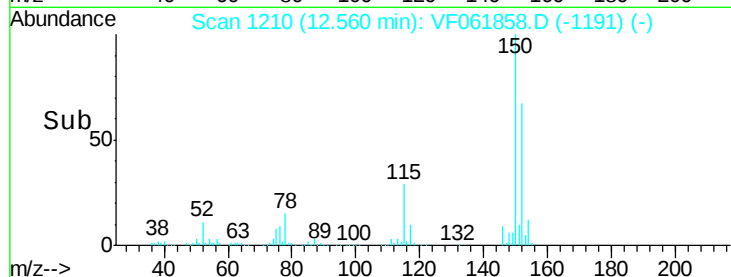
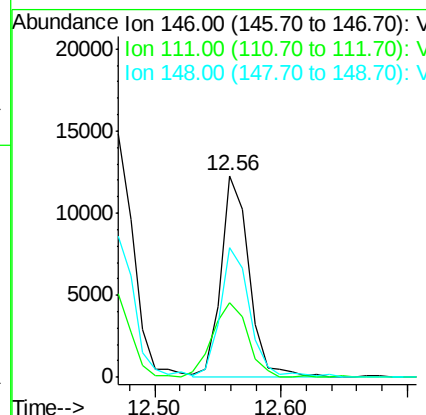
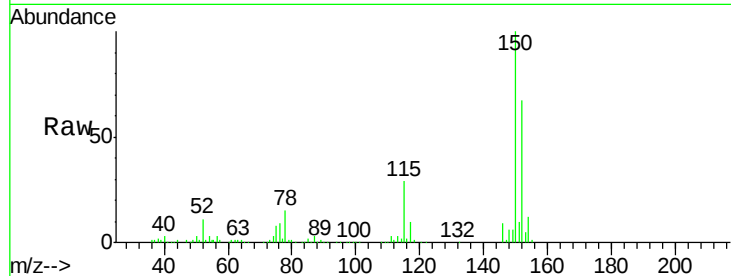
#88
 1,4-Dichlorobenzene
 Concen: 2.701 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	17.6	52.9
148	64.6	33.5	100.4

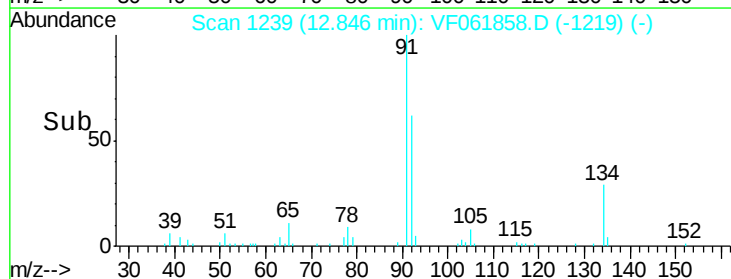
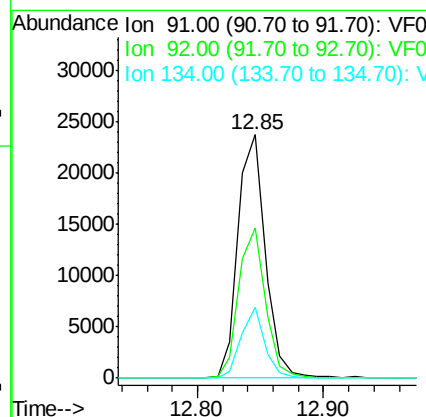
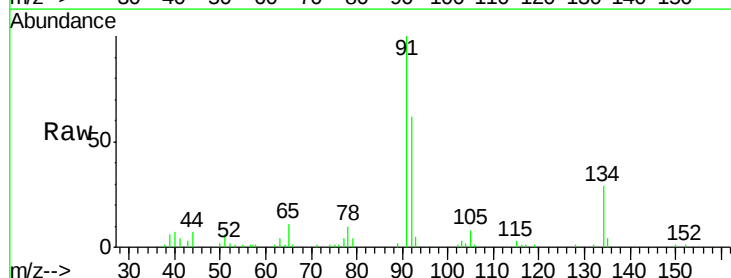
Manual Integrations
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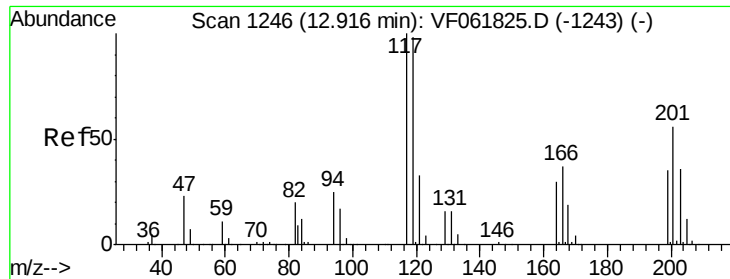
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 3/8/2019 10:59:27 AM



#89
 n-Butylbenzene
 Concen: 2.470 ug/l
 RT: 12.85 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.9	32.9	98.6
134	28.9	14.5	43.6





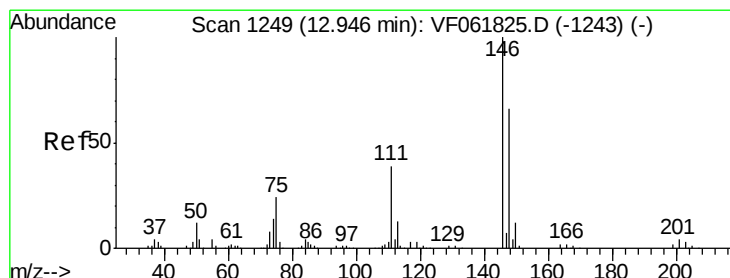
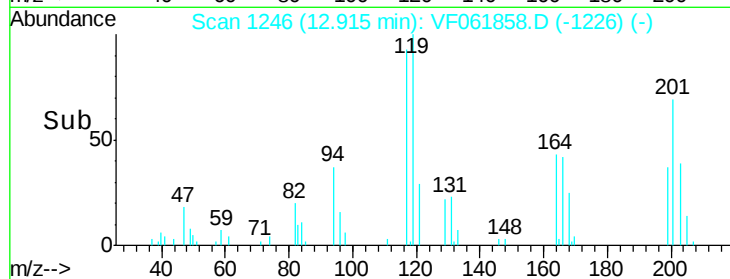
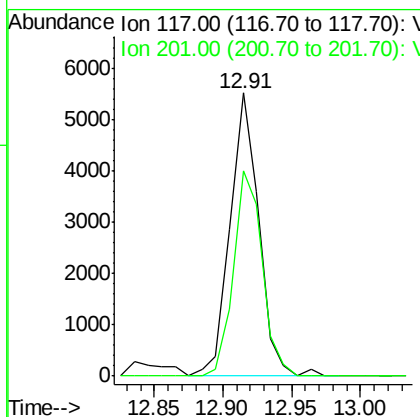
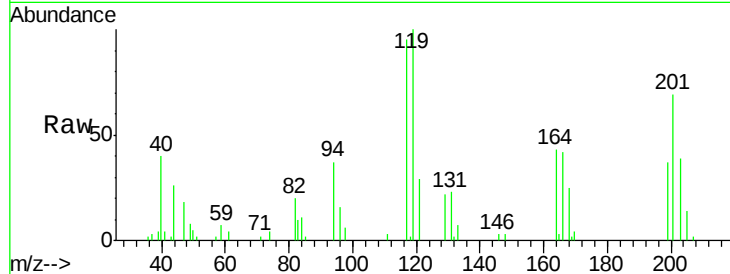
#90
Hexachloroethane
Concen: 2.218 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:117 Resp: 8026
Ion Ratio Lower Upper
117 100
201 72.6 27.8 83.4

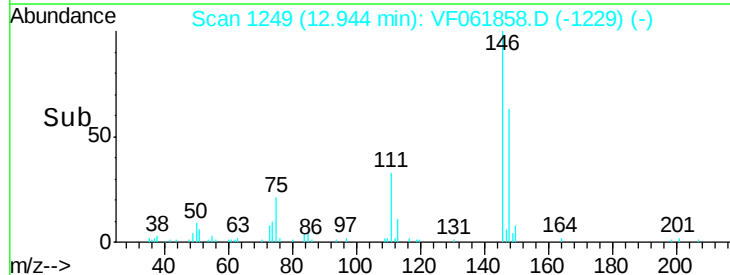
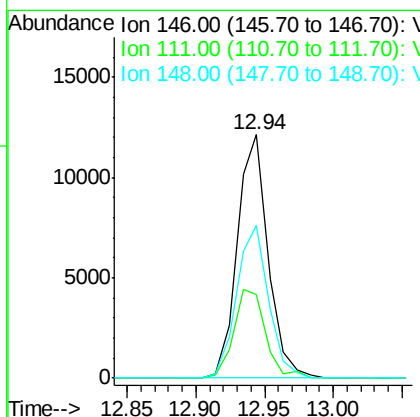
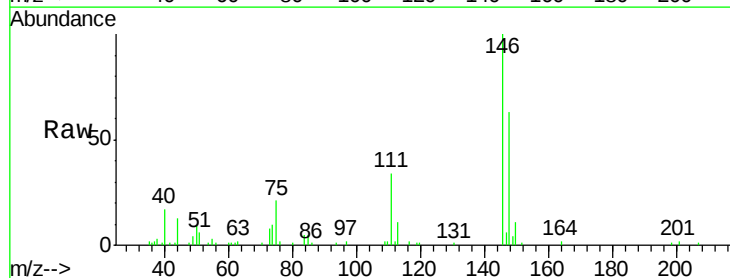
Manual Integrations
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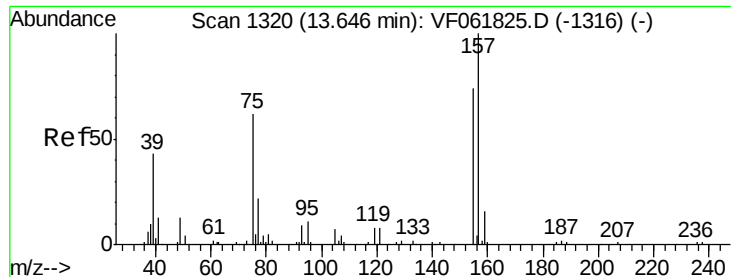
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#91
1,2-Dichlorobenzene
Concen: 2.738 ug/l
RT: 12.94 min Scan# 1249
Delta R.T. -0.00 min
Lab File: VF061858.D
Acq: 5 Mar 2019 21:24

Tgt Ion:146 Resp: 18900
Ion Ratio Lower Upper
146 100
111 34.3 19.4 58.4
148 62.7 33.0 98.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 6.058 ug/l

RT: 13.63 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

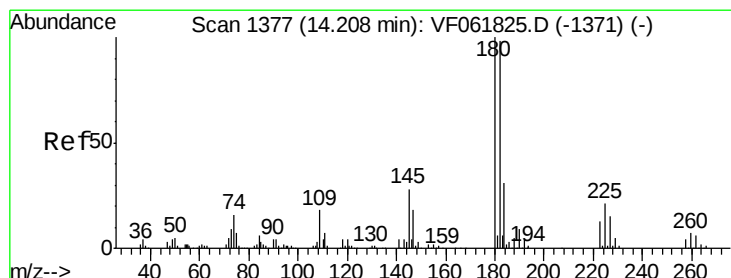
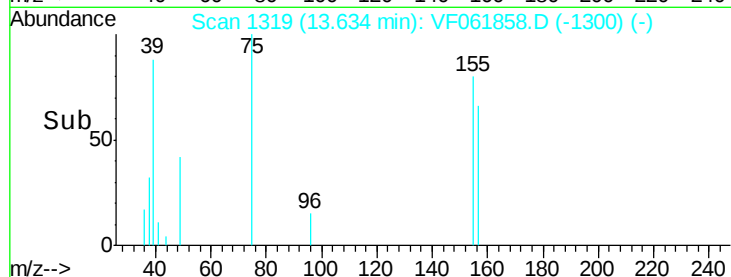
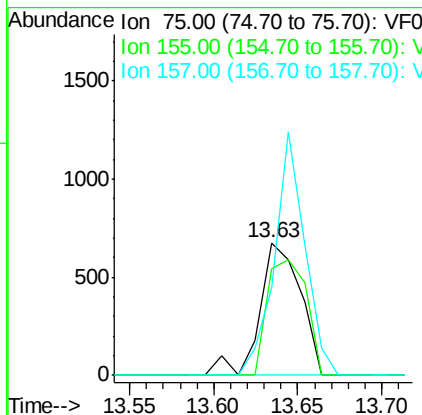
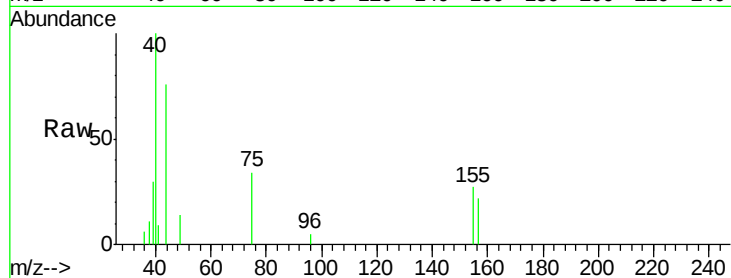
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
75	100		
155	80.2	59.8	179.4
157	65.6	81.2	243.4

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#93

1,2,4-Trichlorobenzene

Concen: 2.788 ug/l

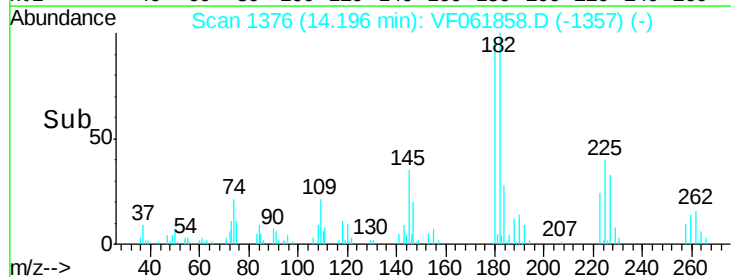
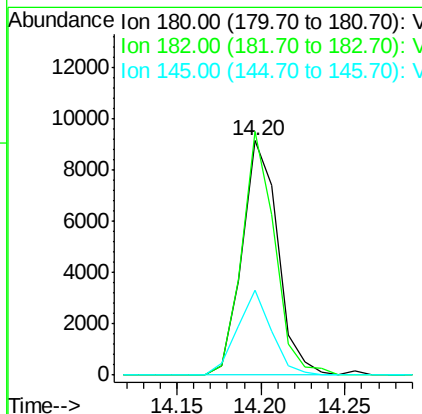
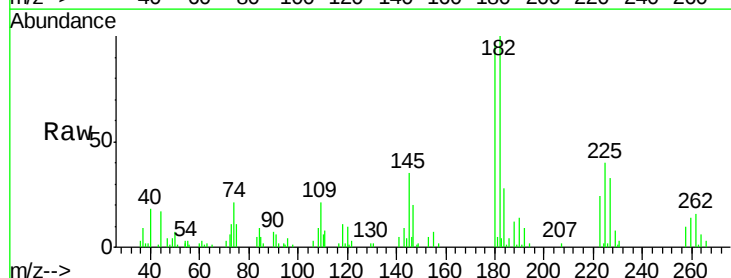
RT: 14.20 min Scan# 1376

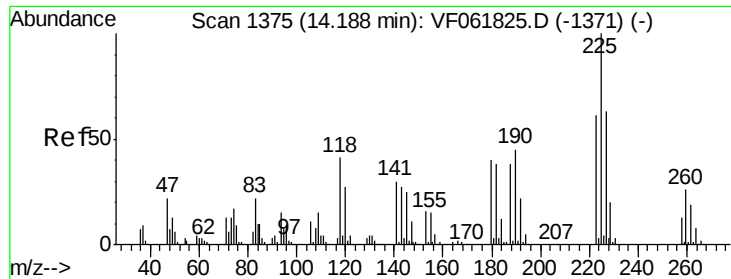
Delta R.T. -0.01 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	104.0	49.0	147.2
145	36.4	14.1	42.4





#94

Hexachlorobutadiene

Concen: 2.385 ug/l

RT: 14.19 min Scan# 1375

Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Instrument :

MSVOA_F

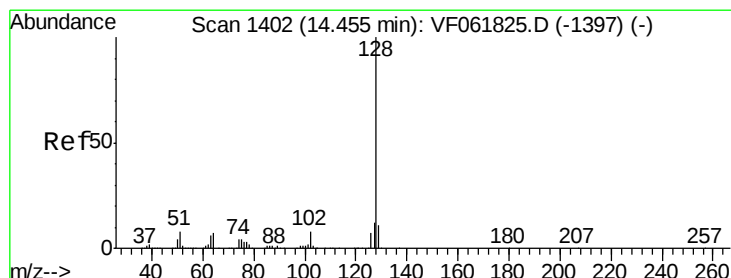
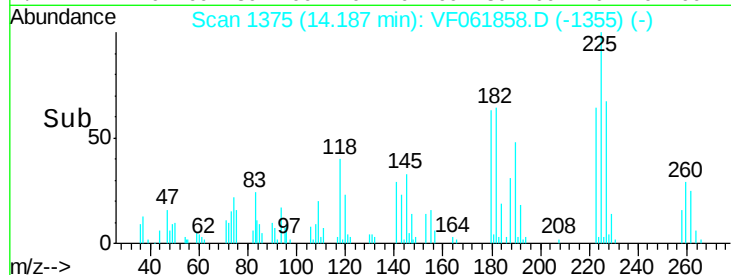
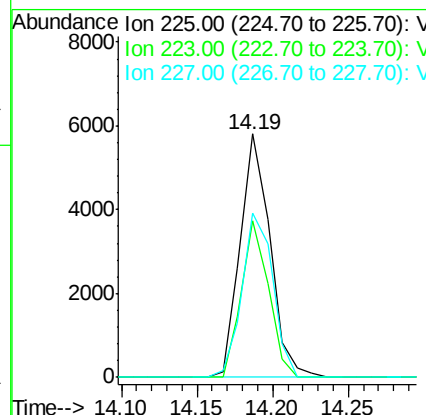
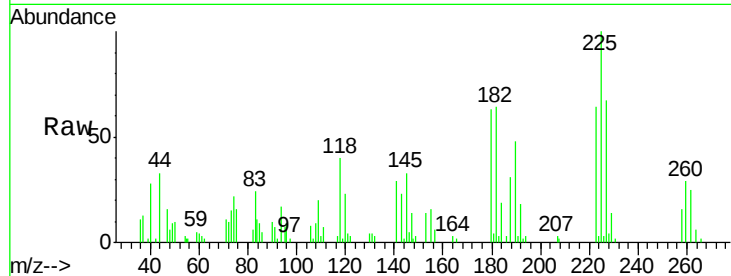
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
225	100		
223	67.8	30.3	90.9
227	67.3	31.3	93.8

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#95

Naphthalene

Concen: 2.189 ug/l

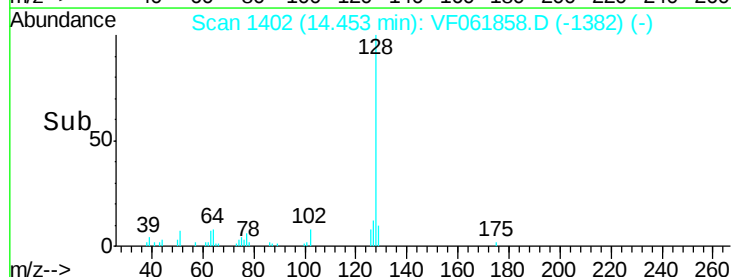
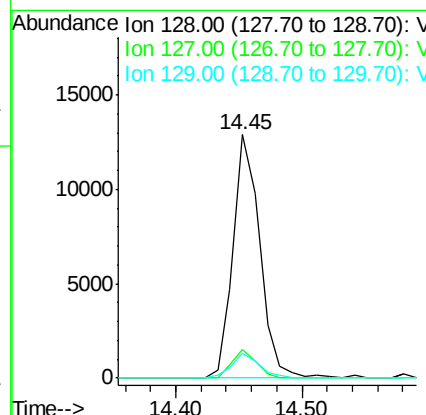
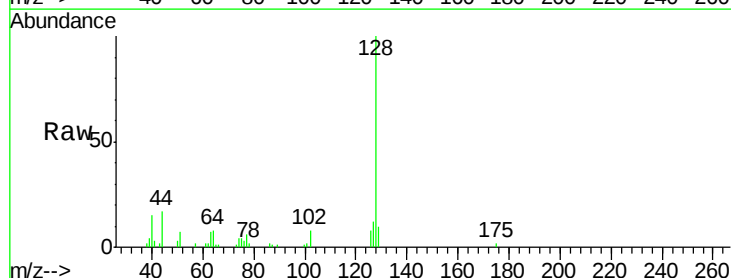
RT: 14.45 min Scan# 1402

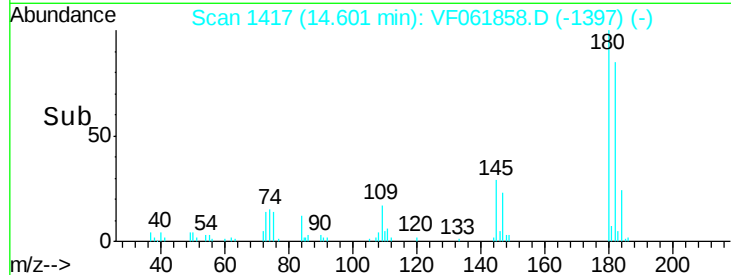
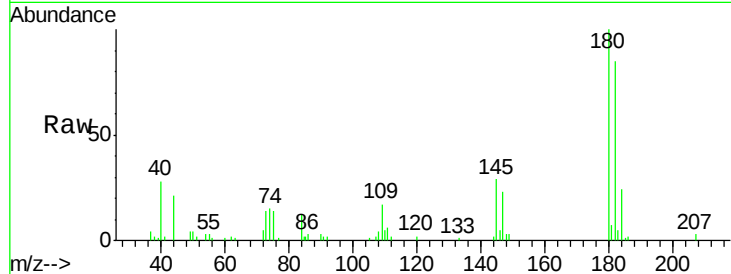
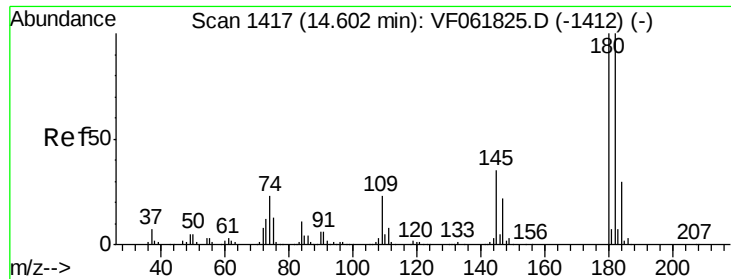
Delta R.T. -0.00 min

Lab File: VF061858.D

Acq: 5 Mar 2019 21:24

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.3	13.9
129	10.2	8.8	13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 2.544 ug/l
 RT: 14.60 min Scan# 1417
 Delta R.T. -0.00 min
 Lab File: VF061858.D
 Acq: 5 Mar 2019 21:24

Tot Ion:	180	Resp:	11368
Ion Ratio	Lower	Upper	
180	100		
182	85.1	50.2	150.7
145	29.1	17.5	52.5

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 10:59:27 AM

