

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031020\
 Data File : VW015111.D
 Acq On : 10 Mar 2020 14:09
 Operator : SY/VA
 Sample : L1161-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:22:12 PM

Quant Time: Mar 11 09:21:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030920S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 11 08:54:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	298630	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	571882	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	514900	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	219015	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	262981	59.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.78%	
35) Dibromofluoromethane	7.88	113	182871	53.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.82%	
50) Toluene-d8	10.32	98	740598	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.62	95	236957	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	4517	2.494	ug/l	99
3) Chloromethane	2.21	50	14662	3.773	ug/l	96
4) Vinyl Chloride	2.36	62	15576	3.062	ug/l	100
5) Bromomethane	2.78	94	8929	3.071	ug/l	88
6) Chloroethane	2.93	64	8531	2.895	ug/l	92
7) Trichlorofluoromethane	3.26	101	7198	2.827	ug/l	96
8) Diethyl Ether	3.68	74	6007	3.097	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	4.06	101	12178	3.138	ug/l	96
10) Methyl Iodide	4.26	142	11792	2.731	ug/l	93
11) Tert butyl alcohol	5.15	59	9931	39.354	ug/l #	87
12) 1,1-Dichloroethene	4.04	96	11581	3.052	ug/l	99
13) Acrolein	3.90	56	6590	17.856	ug/l	94
14) Allyl chloride	4.67	41	20815	2.737	ug/l	97
15) Acrylonitrile	5.37	53	18186	18.290	ug/l	97
16) Acetone	4.12	43	25644	25.608	ug/l	96
17) Carbon Disulfide	4.39	76	39218	2.915	ug/l #	95
18) Methyl Acetate	4.67	43	10330	4.352	ug/l	94
19) Methyl tert-butyl Ether	5.42	73	15726	3.238	ug/l	98
20) Methylene Chloride	4.92	84	19482	4.202	ug/l #	93
21) trans-1,2-Dichloroethene	5.43	96	12025	2.985	ug/l	91
22) Diisopropyl ether	6.31	45	37908	2.598	ug/l #	86
23) Vinyl Acetate	6.26	43	114582	13.304	ug/l	98
24) 1,1-Dichloroethane	6.21	63	25363	2.981	ug/l	98
25) 2-Butanone	7.17	43	28566	20.808	ug/l	100
26) 2,2-Dichloropropane	7.17	77	18291	3.759	ug/l	94
27) cis-1,2-Dichloroethene	7.17	96	12506	2.982	ug/l	85
28) Bromochloromethane	7.51	49	12899	3.164	ug/l	96
29) Tetrahydrofuran	7.52	42	14868	17.315	ug/l	100
30) Chloroform	7.67	83	23668	3.135	ug/l	99
31) Cyclohexane	7.95	56	33419	3.819	ug/l #	66
32) 1,1,1-Trichloroethane	7.87	97	18299	3.104	ug/l	95
36) 1,1-Dichloropropene	8.08	75	19134	2.885	ug/l	97
37) Ethyl Acetate	7.26	43	12493	3.780	ug/l	99
38) Carbon Tetrachloride	8.07	117	15303	2.834	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	20111	2.652	ug/l	97
40) Benzene	8.32	78	54500	2.957	ug/l	96
41) Methacrylonitrile	7.48	41	5229	2.991	ug/l #	95
42) 1,2-Dichloroethane	8.40	62	19286	3.435	ug/l	98
43) Isopropyl Acetate	8.42	43	18519	3.125	ug/l	94
44) Trichloroethene	9.09	130	11126	2.836	ug/l	88
45) 1,2-Dichloropropane	9.37	63	14329	2.887	ug/l	96
46) Dibromomethane	9.45	93	6863	3.180	ug/l	99
47) Bromodichloromethane	9.64	83	16887	2.931	ug/l	98
48) Methyl methacrylate	9.44	41	7451	2.724	ug/l	99
49) 1,4-Dioxane	9.44	88	2461	74.479	ug/l #	86
51) 4-Methyl-2-Pentanone	10.21	43	48896	14.939	ug/l	99
52) Toluene	10.38	92	29568	2.793	ug/l	97
53) t-1,3-Dichloropropene	10.60	75	15959	2.815	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	17172	2.487	ug/l	89
55) 1,1,2-Trichloroethane	10.79	97	9656	3.265	ug/l	97
56) Ethyl methacrylate	10.65	69	10469	2.744	ug/l	95
57) 1,3-Dichloropropane	10.93	76	16960	3.012	ug/l	91
58) 2-Chloroethyl Vinyl ether	9.92	63	27766	12.402	ug/l	99
59) 2-Hexanone	10.97	43	30767	15.049	ug/l	92
60) Dibromochloromethane	11.12	129	8835	2.893	ug/l	95
61) 1,2-Dibromoethane	11.23	107	8070	3.078	ug/l	94
64) Tetrachloroethene	10.86	164	8551	2.878	ug/l	92
65) Chlorobenzene	11.66	112	29761	2.880	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	9720	2.824	ug/l	97
67) Ethyl Benzene	11.73	91	49433	2.458	ug/l	97
68) m/p-Xylenes	11.84	106	32226	4.533	ug/l	99
69) o-Xylene	12.16	106	14836	2.317	ug/l	98
70) Styrene	12.18	104	23548	2.146	ug/l	100
71) Bromoform	12.35	173	4393	2.876	ug/l #	95
73) Isopropylbenzene	12.46	105	39345	2.352	ug/l	96
74) N-amyl acetate	12.27	43	13107	2.651	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.71	83	12072	3.553	ug/l	95
76) 1,2,3-Trichloropropane	12.77	75	10144m	4.098	ug/l	
77) Bromobenzene	12.74	156	9768	2.954	ug/l	89
78) n-propylbenzene	12.80	91	56723	2.609	ug/l	98
79) 2-Chlorotoluene	12.89	91	32182	2.633	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	33995	2.363	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.51	75	3233m	2.950	ug/l	
82) 4-Chlorotoluene	12.99	91	33973	2.610	ug/l	97
83) tert-Butylbenzene	13.20	119	26607	2.283	ug/l	93
84) 1,2,4-Trimethylbenzene	13.25	105	32518	2.261	ug/l	95
85) sec-Butylbenzene	13.38	105	42720	2.422	ug/l	99
86) p-Isopropyltoluene	13.49	119	34299	2.262	ug/l	96
87) 1,3-Dichlorobenzene	13.50	146	20330	2.902	ug/l	95
88) 1,4-Dichlorobenzene	13.57	146	21270	3.083	ug/l	88
89) n-Butylbenzene	13.82	91	39548	2.419	ug/l	95
90) Hexachloroethane	14.09	117	8569	2.818	ug/l	94
91) 1,2-Dichlorobenzene	13.87	146	17560	2.862	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.47	75	2277	4.174	ug/l	94

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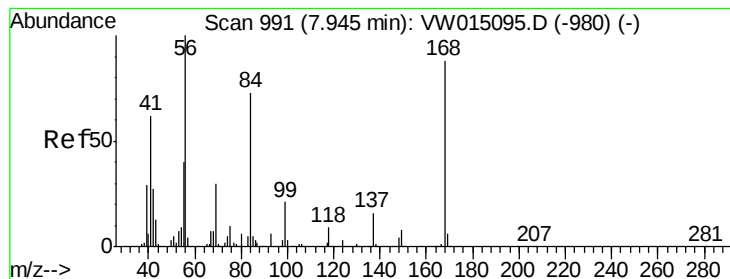
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	8518	2.426	ug/l	98
94) Hexachlorobutadiene	15.24	225	6205	2.814	ug/l	95
95) Naphthalene	15.36	128	13401	2.044	ug/l	96
96) 1,2,3-Trichlorobenzene	15.55	180	7848	2.520	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:168 Resp: 298630

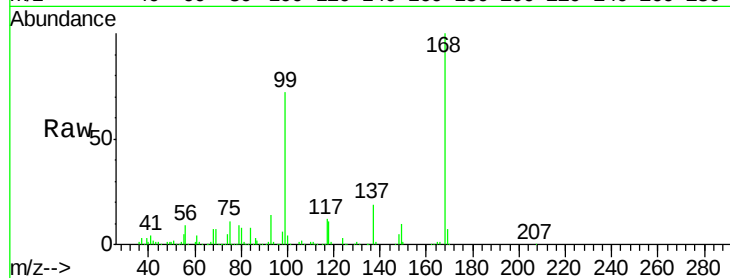
Ion Ratio Lower Upper

168 100

99 71.4 57.2 85.8

Manual Integrations
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

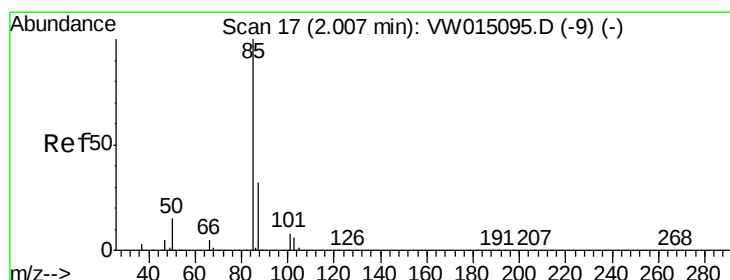
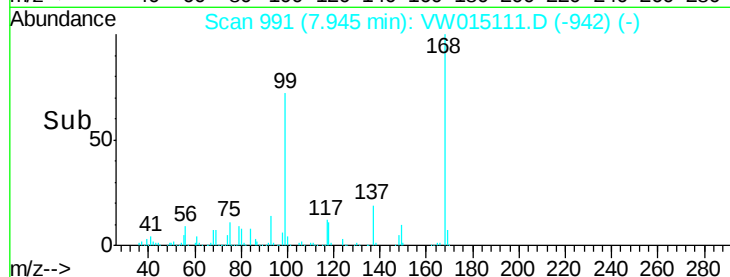
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.494 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW015111.D

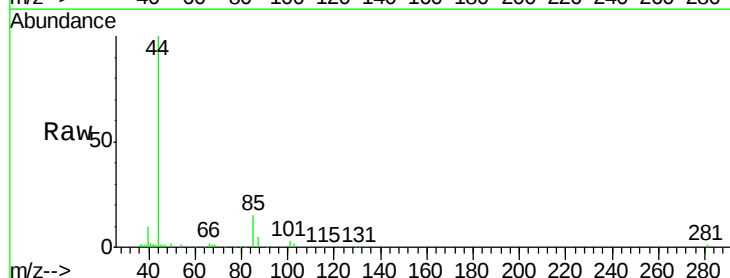
Acq: 10 Mar 2020 14:09

Tgt Ion: 85 Resp: 4517

Ion Ratio Lower Upper

85 100

87 31.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

2000

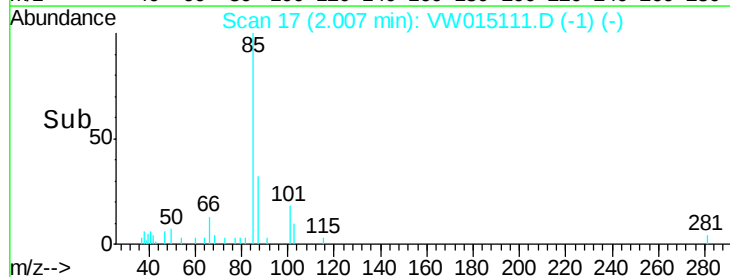
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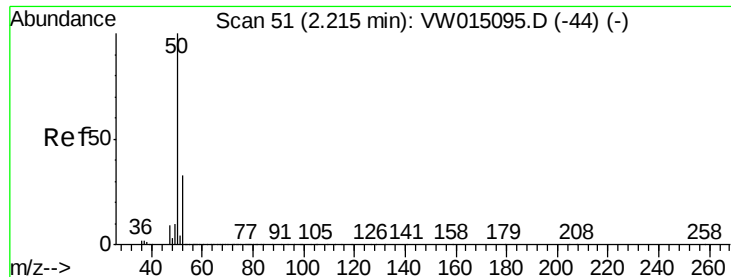
1000

500

0

Time-->





#3

Chloromethane

Concen: 3.773 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 50 Resp: 14662

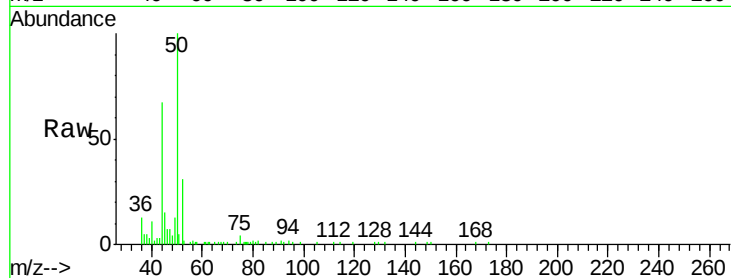
Ion Ratio Lower Upper

50 100

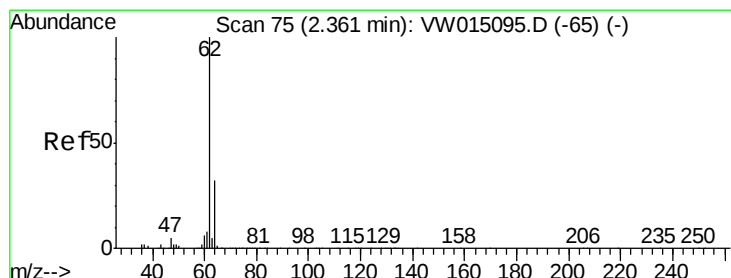
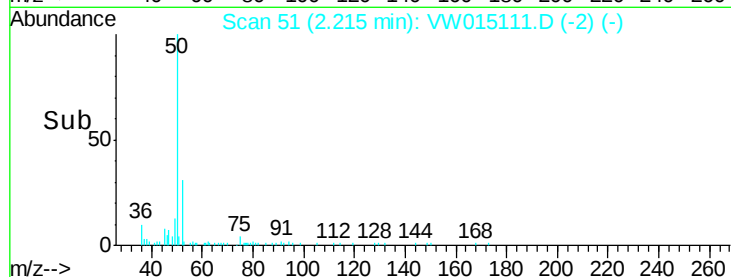
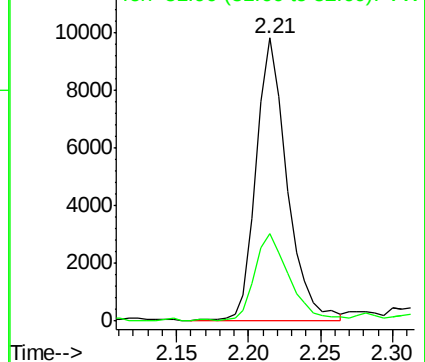
52 30.9 26.6 40.0

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Abundance Ion 49.60 (49.60 to 50.60): VW
Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 3.062 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW015111.D

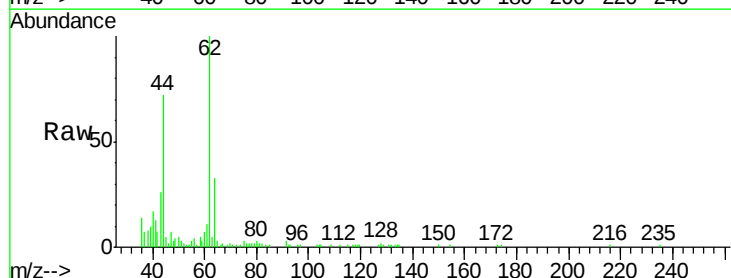
Acq: 10 Mar 2020 14:09

Tgt Ion: 62 Resp: 15576

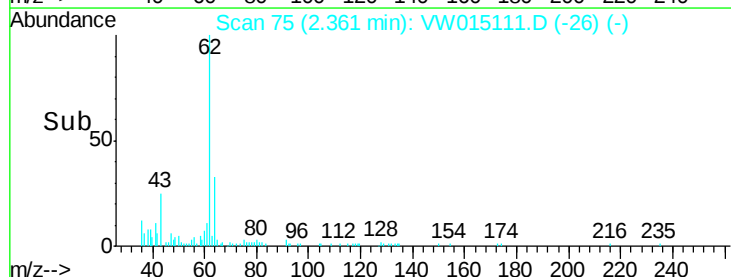
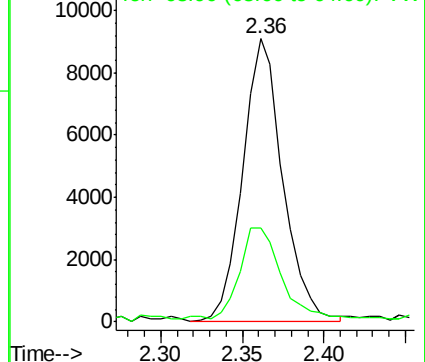
Ion Ratio Lower Upper

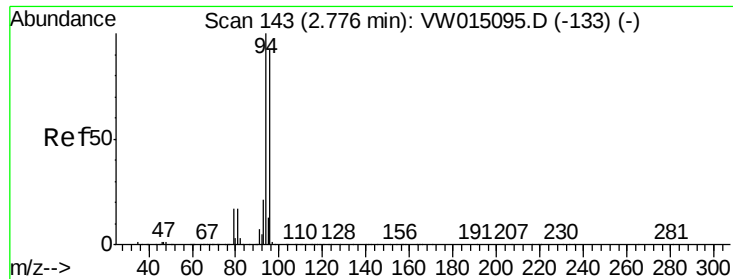
62 100

64 31.4 25.3 37.9



Abundance Ion 61.60 (61.60 to 62.60): VW
Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 3.071 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 94 Resp: 8929

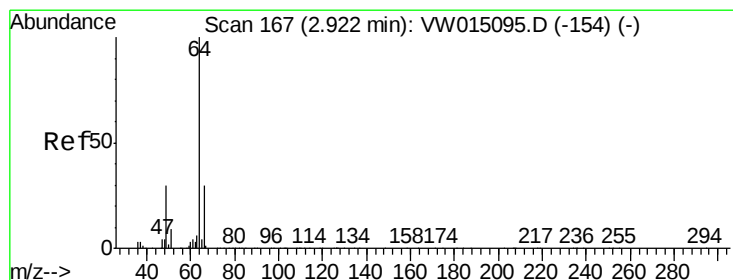
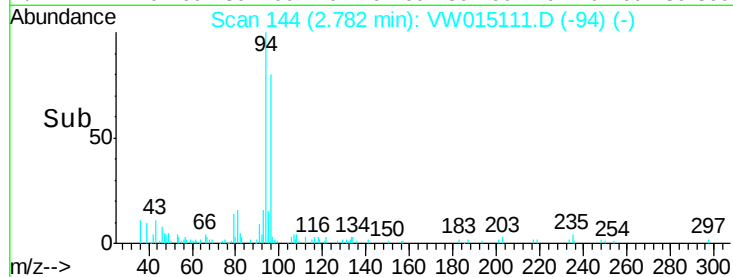
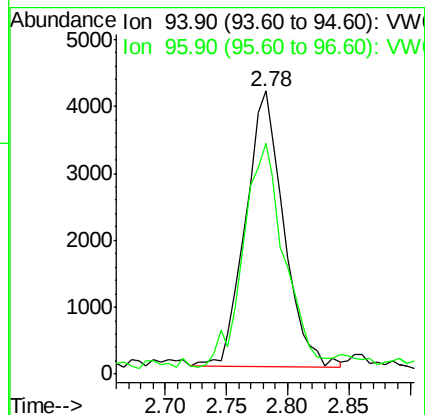
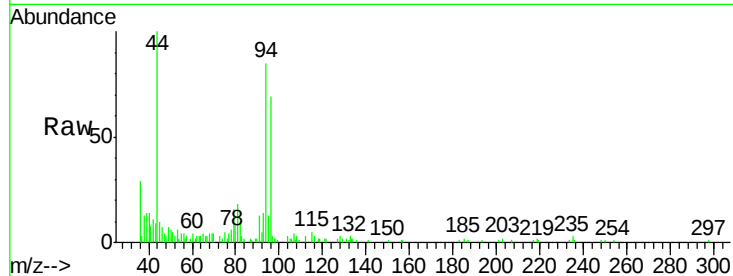
Ion Ratio Lower Upper

94 100

96 81.0 74.0 111.0

Manual Integrations
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#6

Chloroethane

Concen: 2.895 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW015111.D

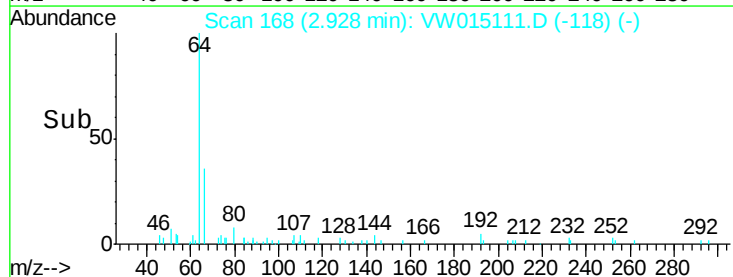
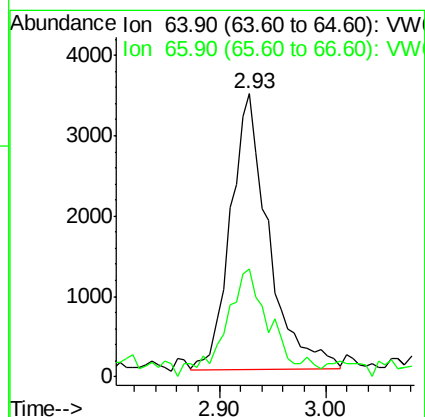
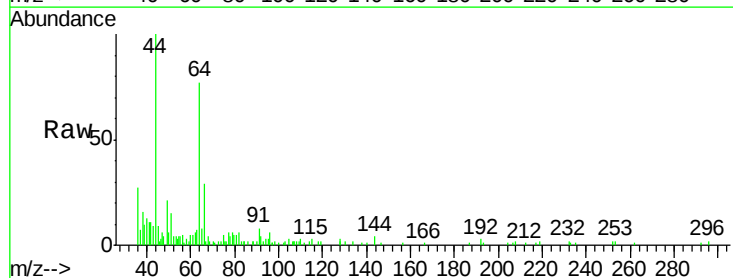
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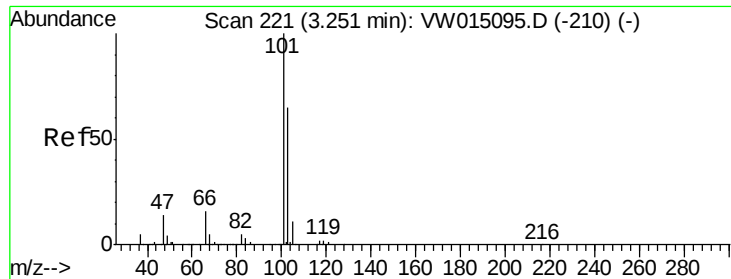
Tgt Ion: 64 Resp: 8531

Ion Ratio Lower Upper

64 100

66 34.7 24.2 36.2





#7

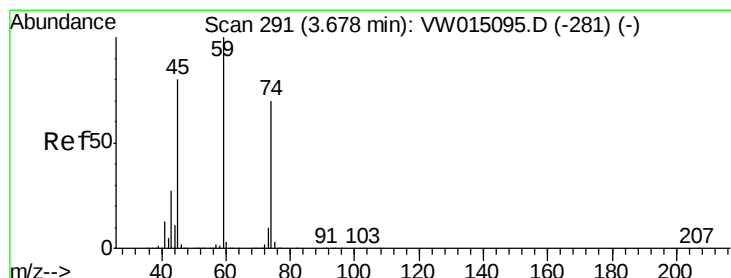
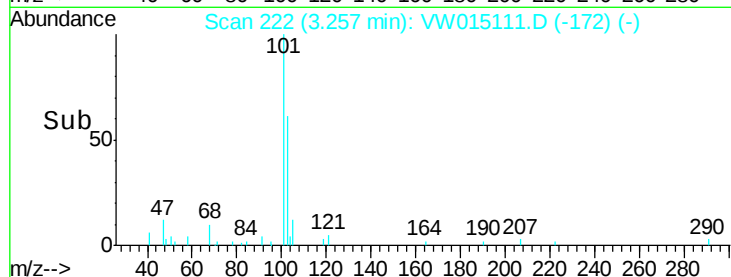
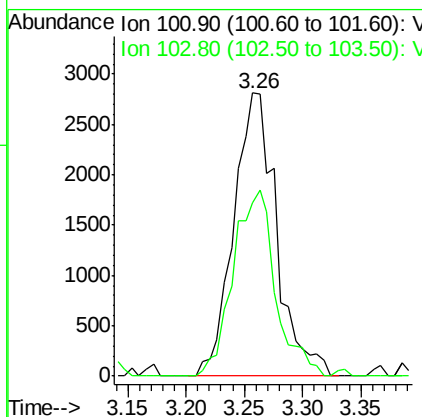
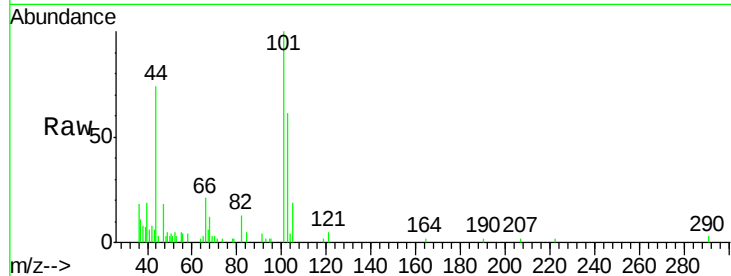
Trichlorofluoromethane
 Concen: 2.827 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.01 min
 Lab File: VW015111.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	61.5	51.8	77.6

Manual Integrations
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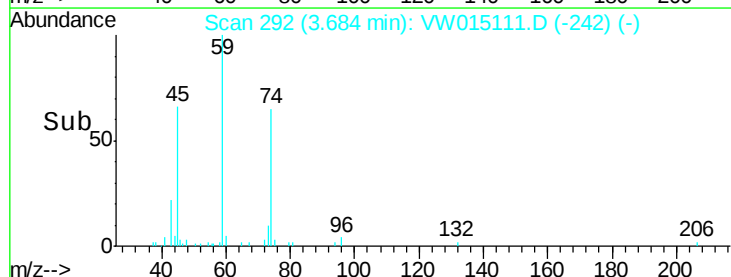
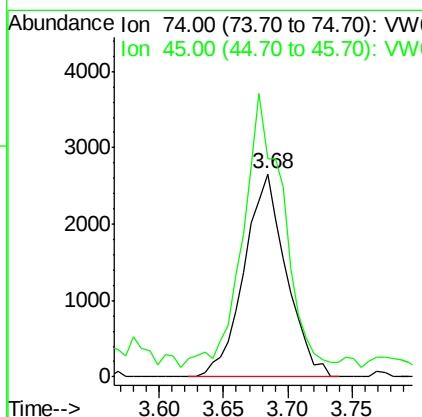
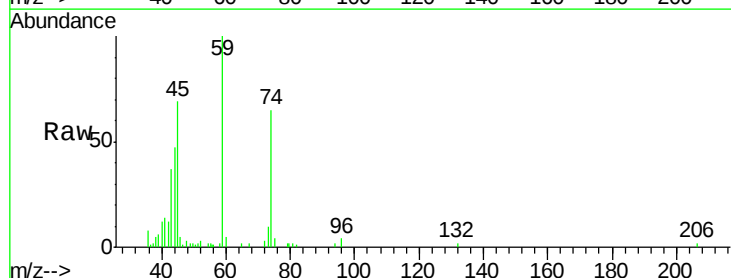
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 3/11/2020 3:22:12 PM

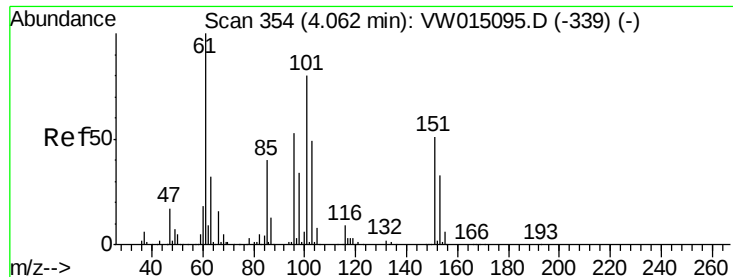


#8

Diethyl Ether
 Concen: 3.097 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.01 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	133.0	59.2	177.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.138 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

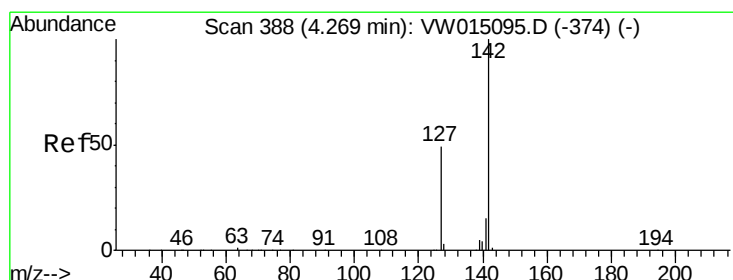
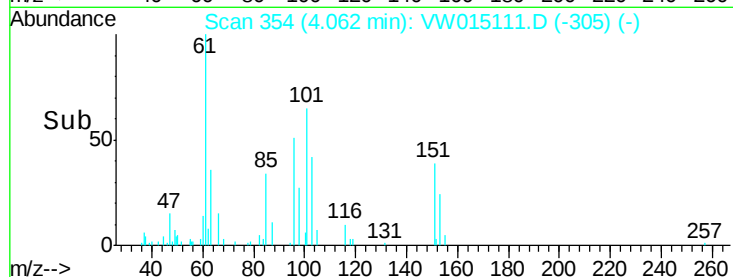
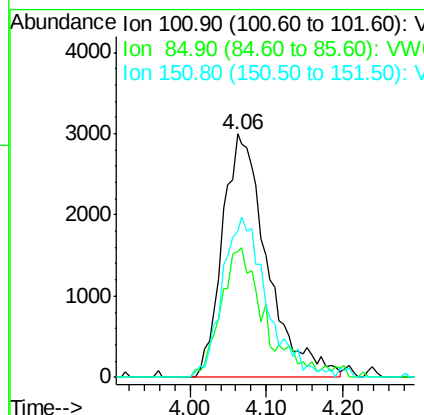
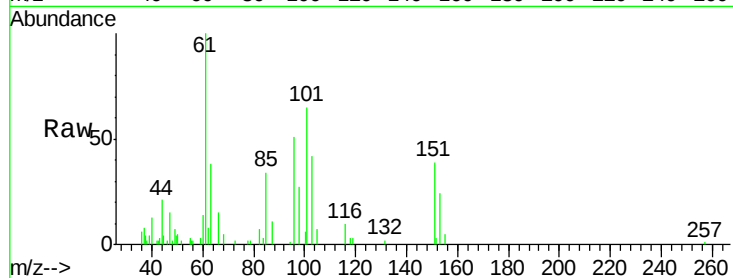
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	101	Resp:	12178
Ion Ratio	Lower	Upper	
101	100		
85	44.5	39.0	58.4
151	65.1	50.8	76.2

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#10

Methyl Iodide

Concen: 2.731 ug/l

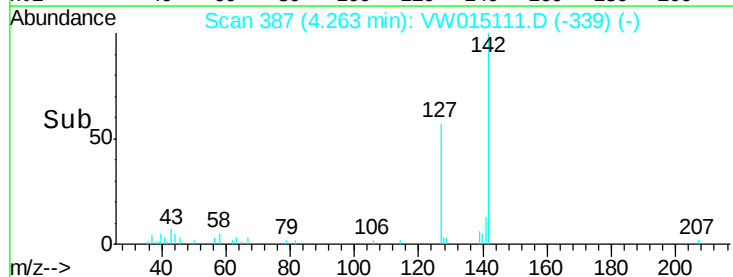
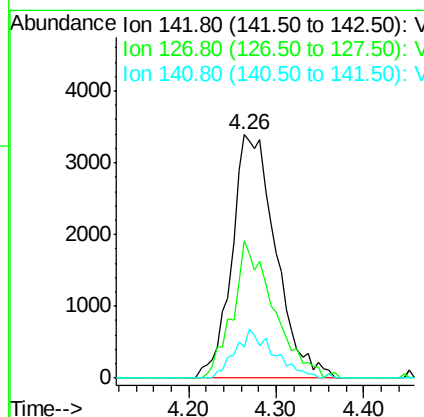
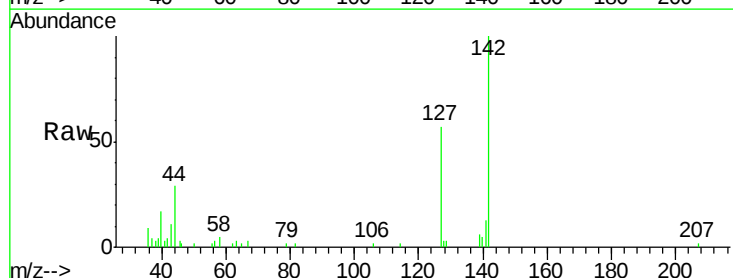
RT: 4.26 min Scan# 387

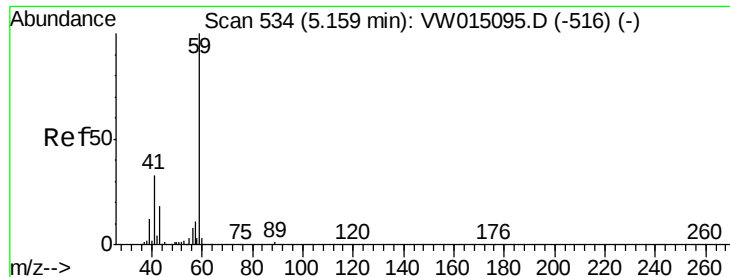
Delta R.T. -0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion:	142	Resp:	11792
Ion Ratio	Lower	Upper	
142	100		
127	52.8	38.2	57.4
141	17.7	12.0	18.0





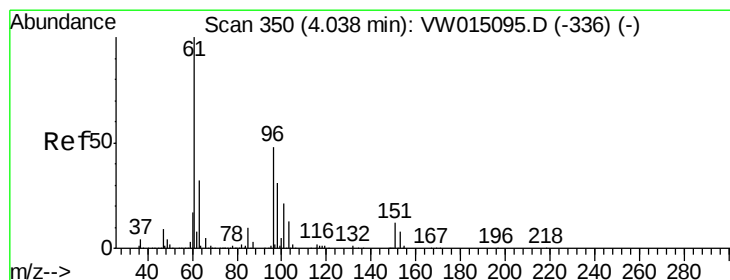
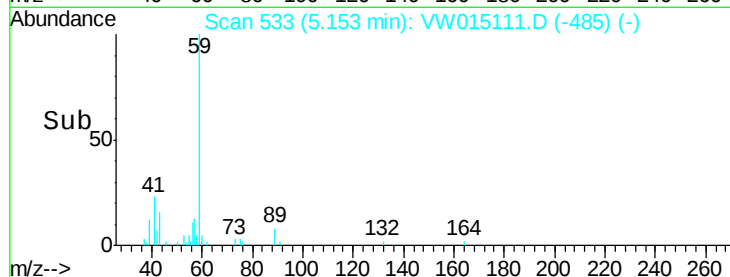
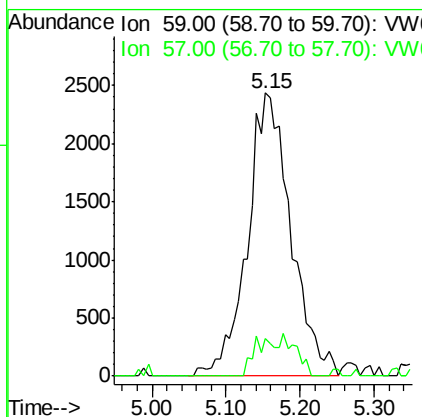
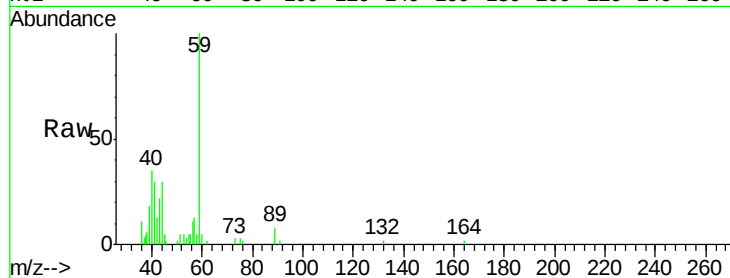
#11
Tert butyl alcohol
Concen: 39.354 ug/l
RT: 5.15 min Scan# 533
Delta R.T. -0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.3	9.1	13.7#

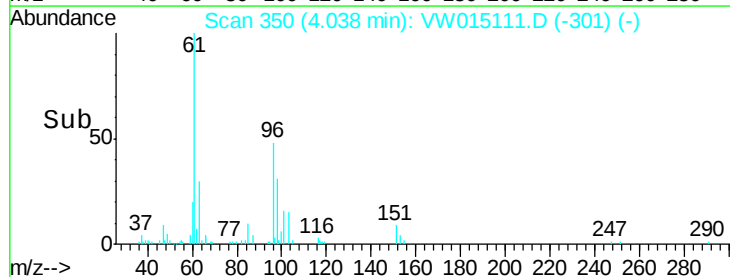
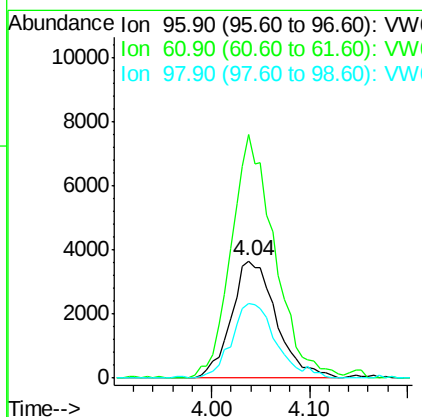
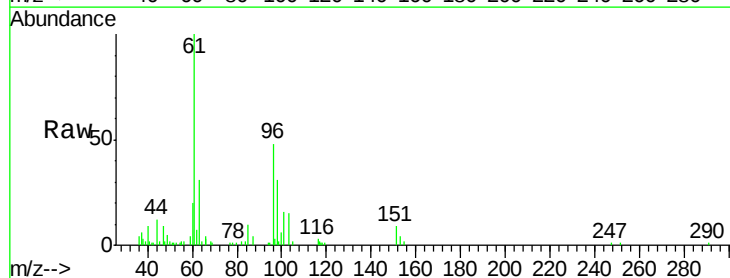
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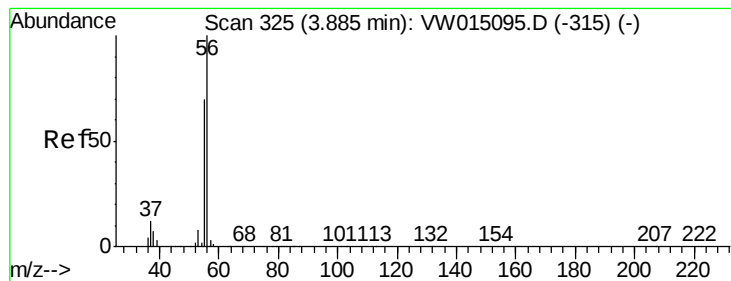
MMDadoda
3/11/2020 3:22:12 PM



#12
1,1-Dichloroethene
Concen: 3.052 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	208.3	165.5	248.3
98	63.9	51.1	76.7





#13

Acrolein

Concen: 17.856 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 56 Resp: 6590

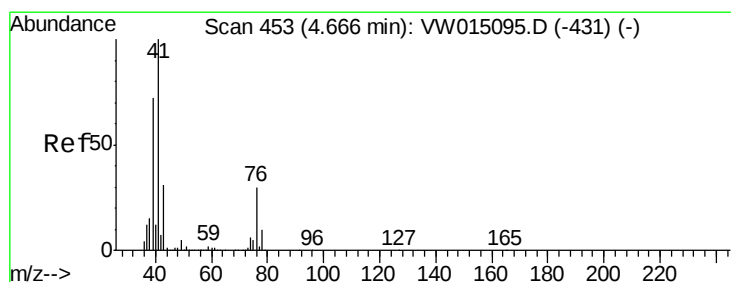
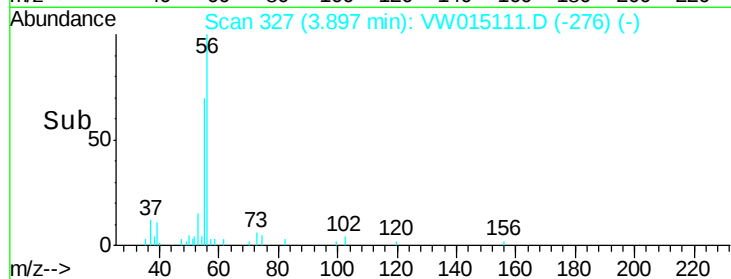
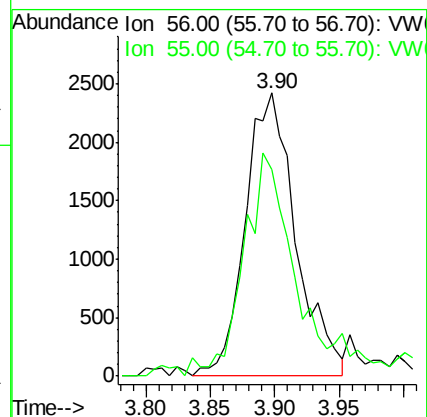
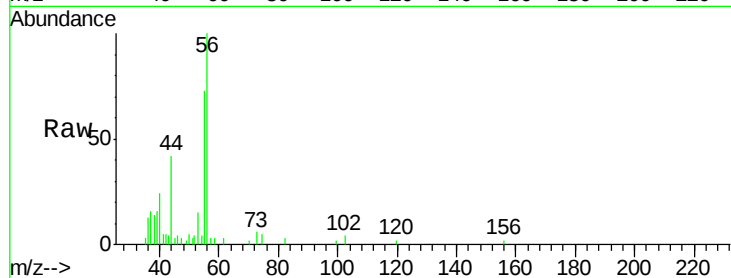
Ion Ratio Lower Upper

56 100

55 74.5 55.4 83.2

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#14

Allyl chloride

Concen: 2.737 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

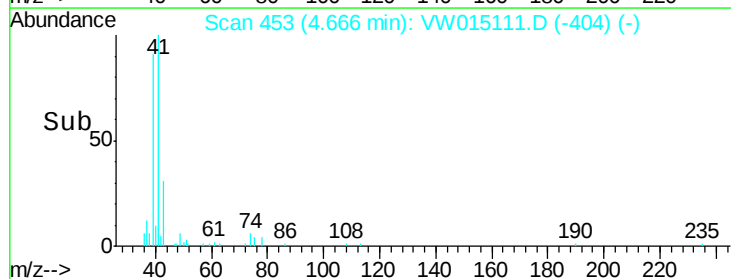
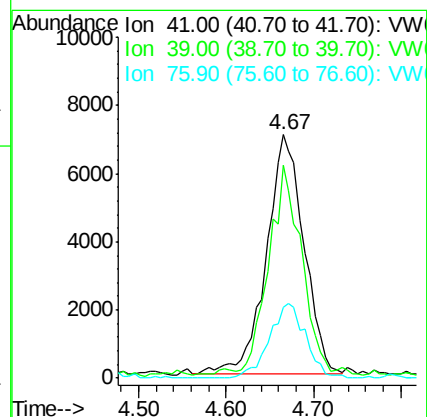
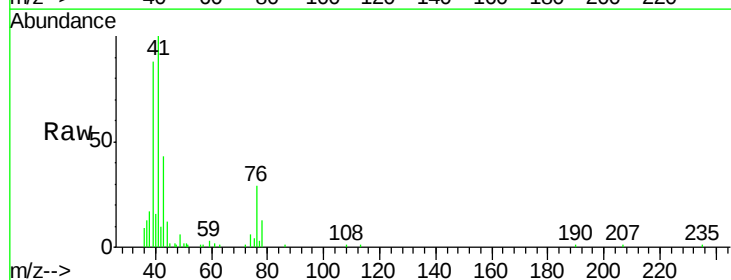
Tgt Ion: 41 Resp: 20815

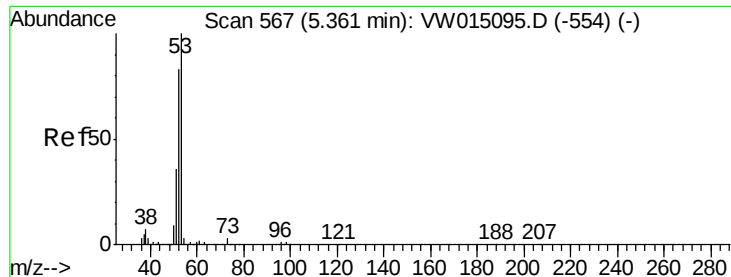
Ion Ratio Lower Upper

41 100

39 74.1 56.9 85.3

76 30.4 23.2 34.8





#15

Acrylonitrile

Concen: 18.290 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

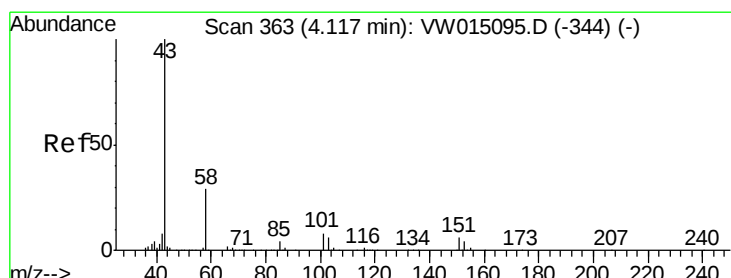
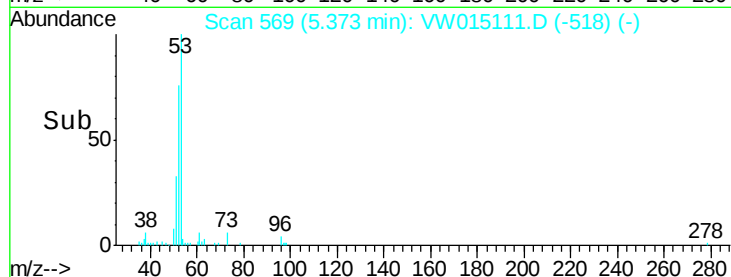
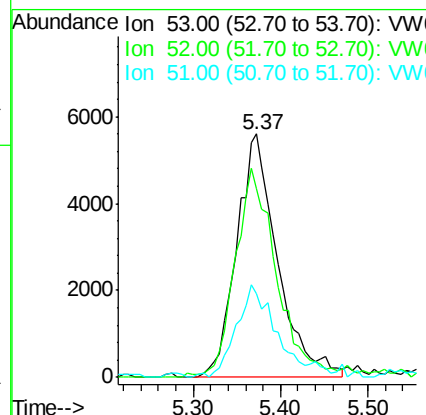
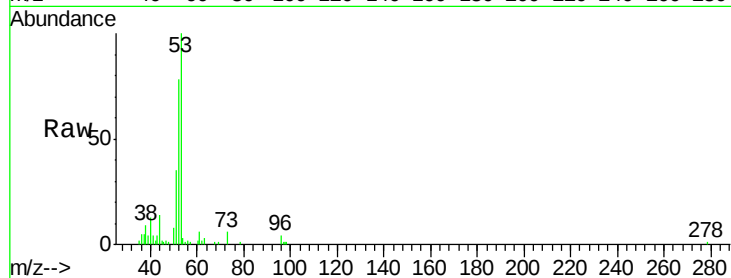
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	53	Resp:	18186
Ion	Ratio	Lower	Upper
53	100		
52	86.7	67.2	100.8
51	35.8	29.8	44.6

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#16

Acetone

Concen: 25.608 ug/l

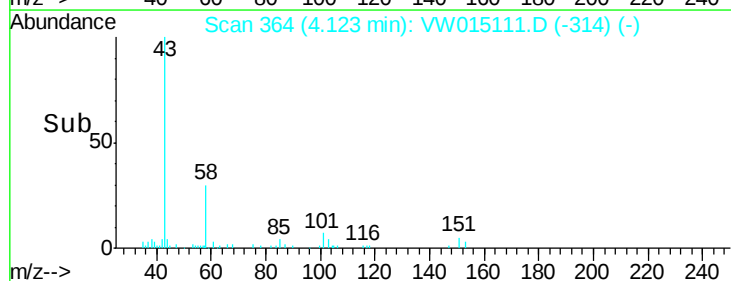
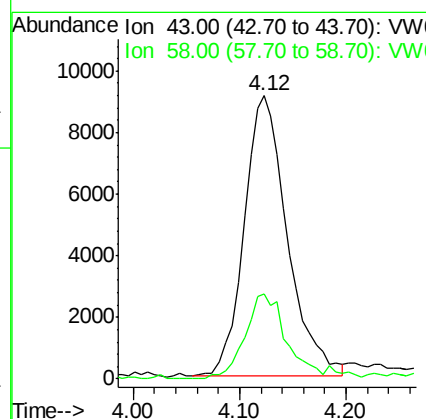
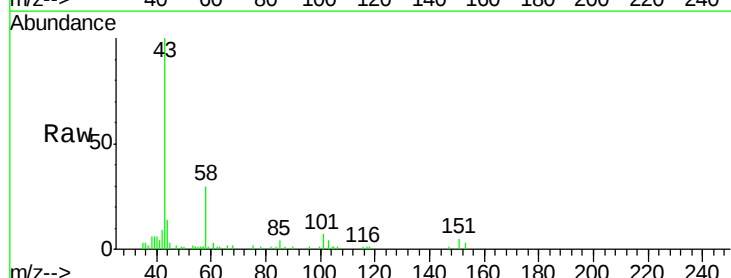
RT: 4.12 min Scan# 364

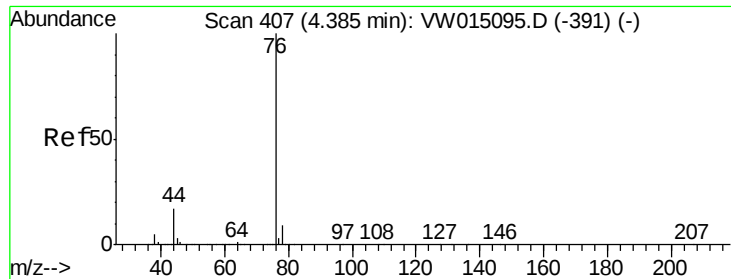
Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion:	43	Resp:	25644
Ion	Ratio	Lower	Upper
43	100		
58	30.6	22.9	34.3





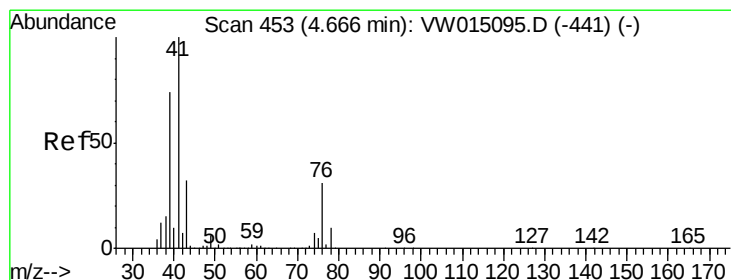
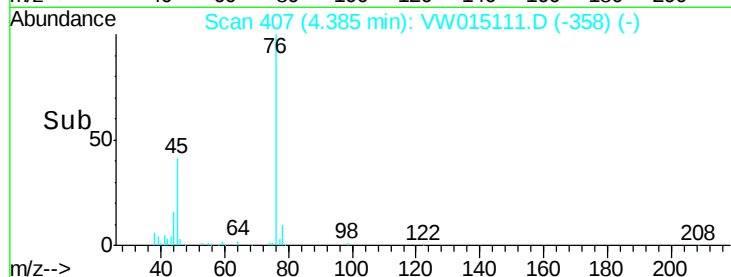
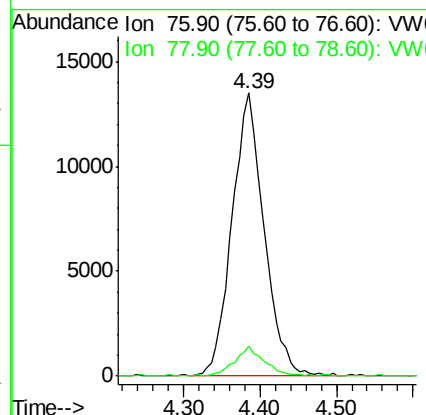
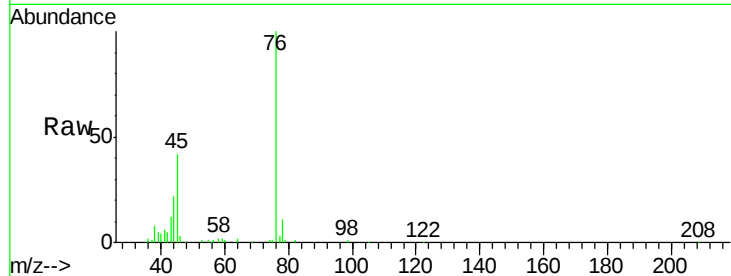
#17
Carbon Disulfide
Concen: 2.915 ug/l
RT: 4.39 min Scan# 407
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.5	6.9	10.3#

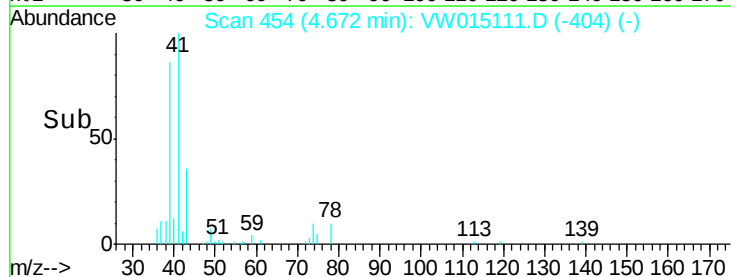
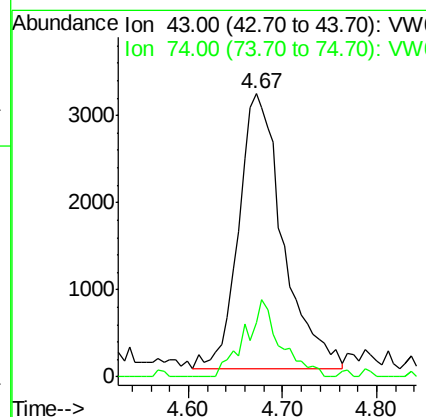
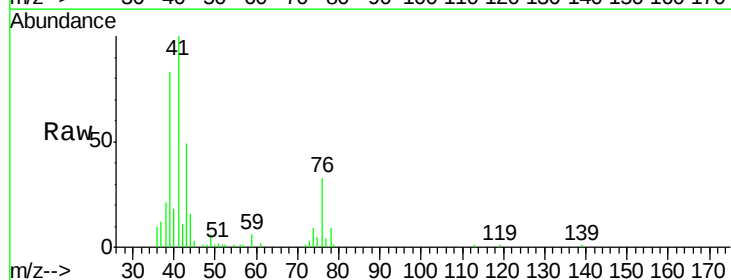
Manual Integrations
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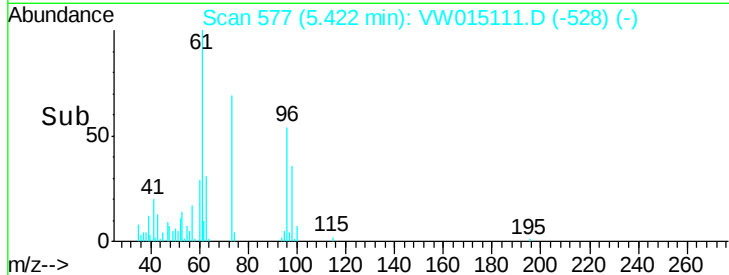
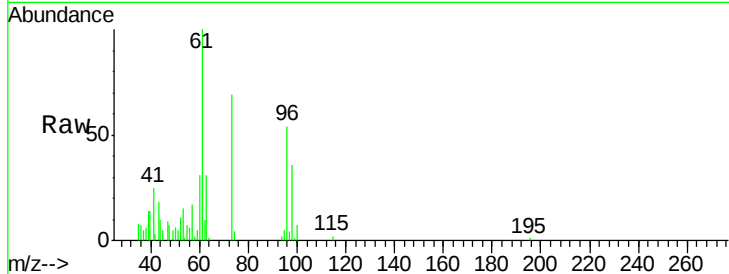
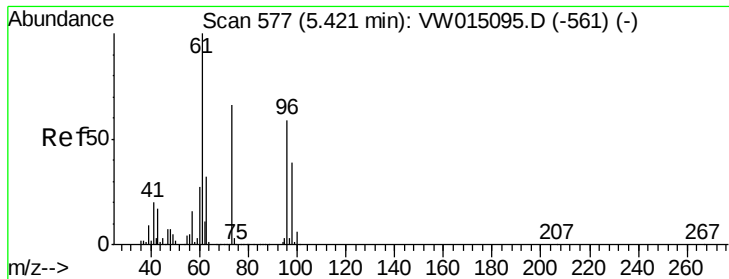
MMDadoda
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#18
Methyl Acetate
Concen: 4.352 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.6	15.8	23.6





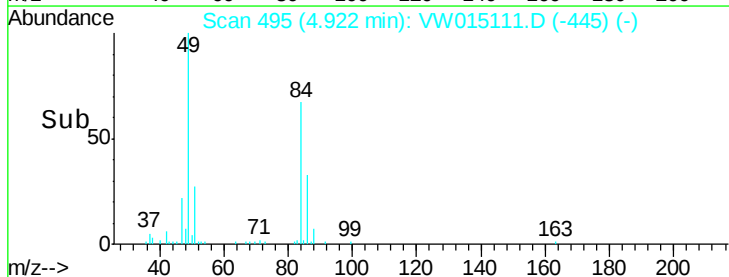
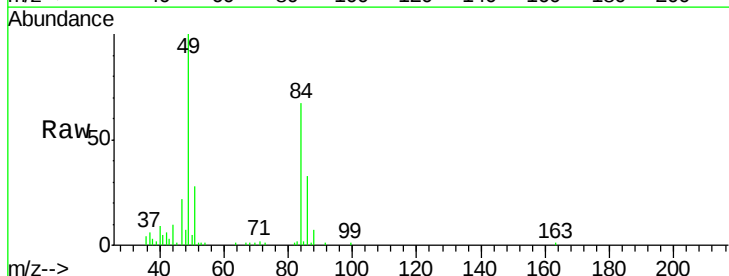
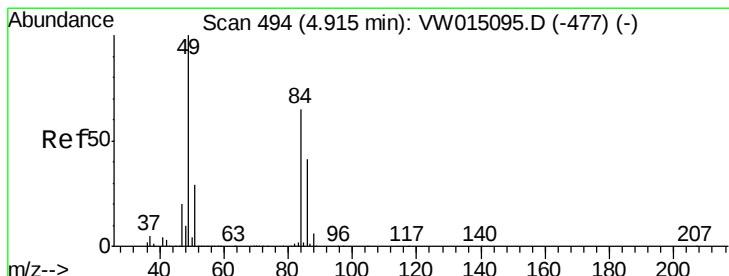
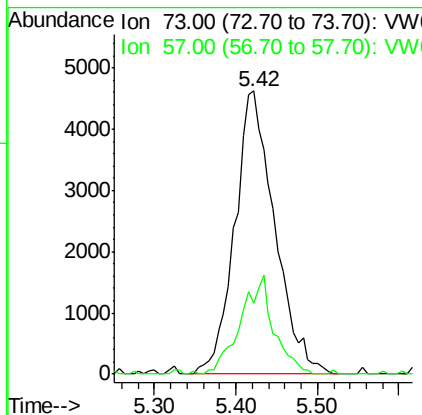
#19
Methvl tert-butvl Ether
Concen: 3.238 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tot Ion	73	Resp	15726
Ion	Ratio	Lower	Upper
73	100		
57	25.2	19.3	28.9

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

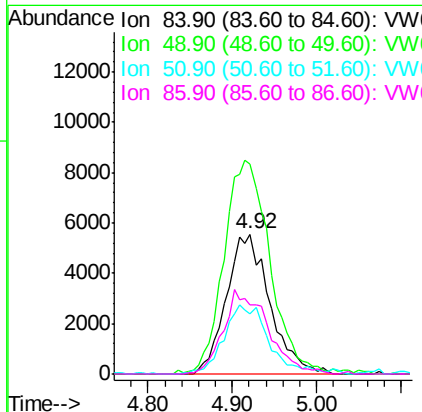
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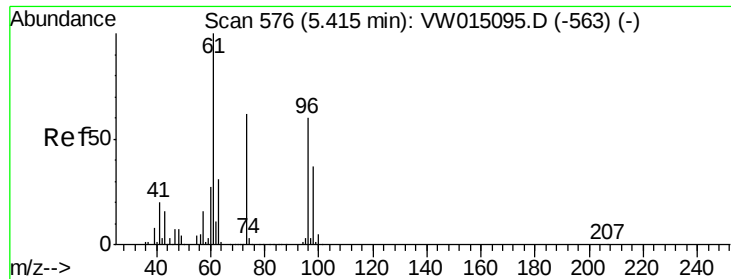
MMDadoda
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#20
Methylene Chloride
Concen: 4.202 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	84	Resp	19482
Ion	Ratio	Lower	Upper
84	100		
49	148.6	122.8	184.2
51	41.4	35.9	53.9
86	49.2	50.0	75.0#





#21

trans-1,2-Dichloroethene

Concen: 2.985 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

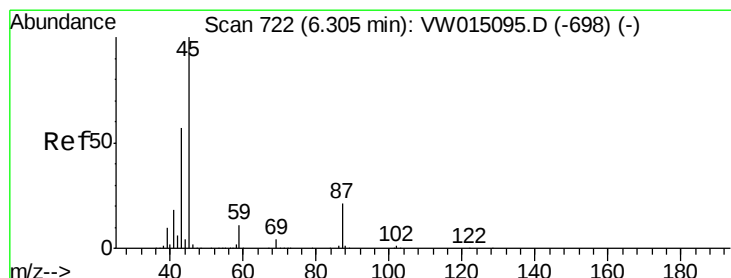
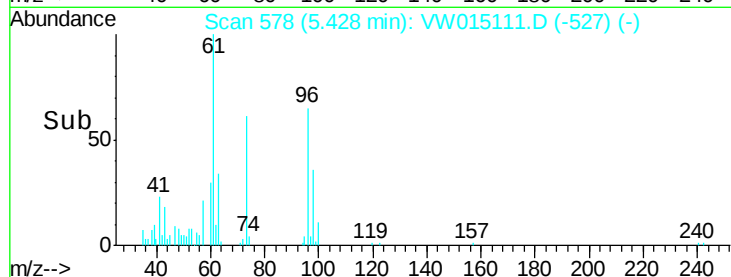
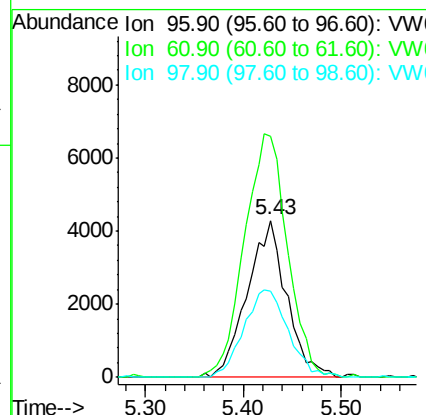
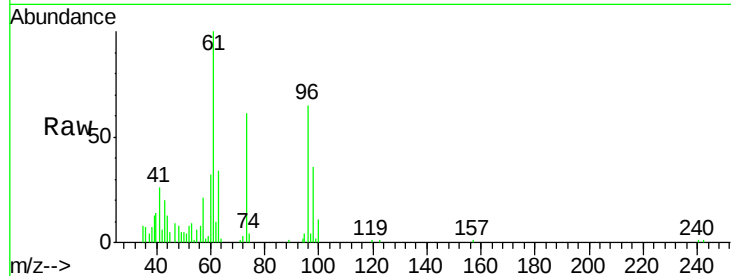
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	96	Resp:	12025
Ion	Ratio	Lower	Upper
96	100		
61	153.6	132.5	198.7
98	54.9	48.9	73.3

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#22

Diisopropyl ether

Concen: 2.598 ug/l

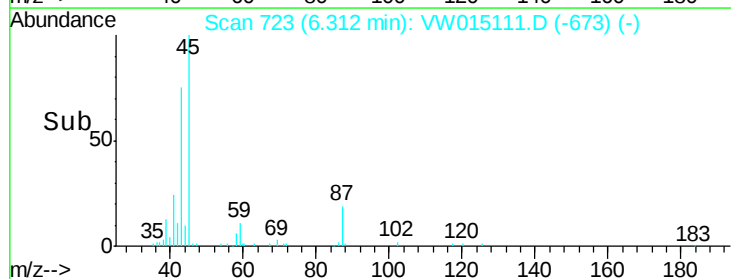
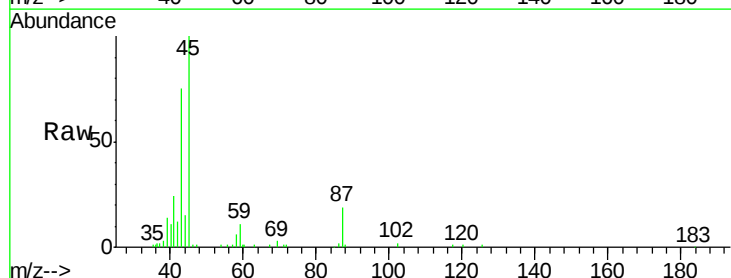
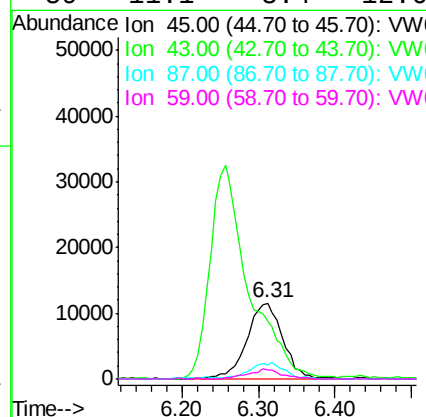
RT: 6.31 min Scan# 723

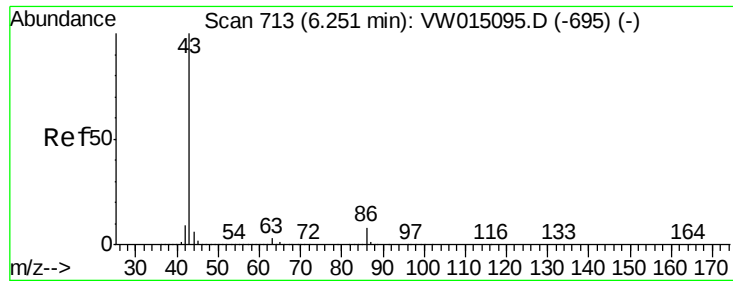
Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion:	45	Resp:	37908
Ion	Ratio	Lower	Upper
45	100		
43	71.8	45.4	68.0#
87	19.0	16.4	24.6
59	11.1	8.4	12.6





#23

Vinyl Acetate

Concen: 13.304 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 114582

Ion Ratio Lower Upper

43 100

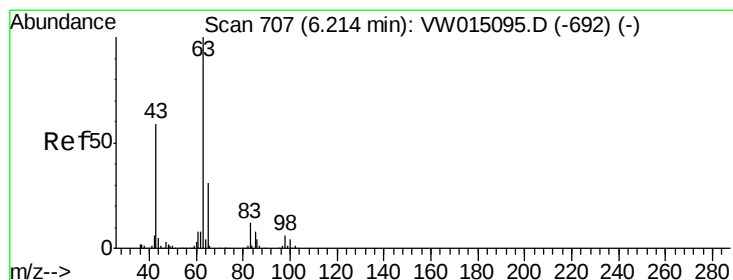
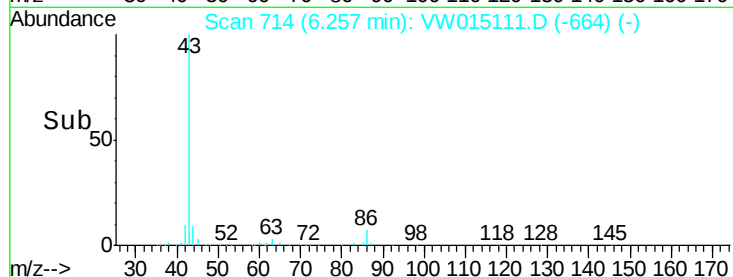
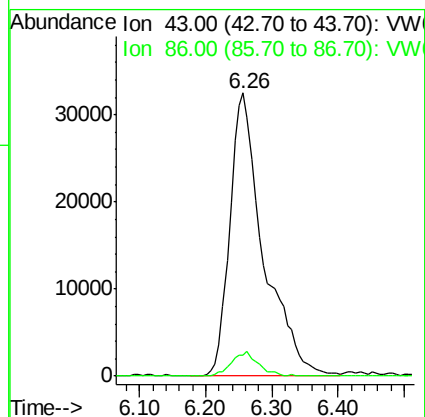
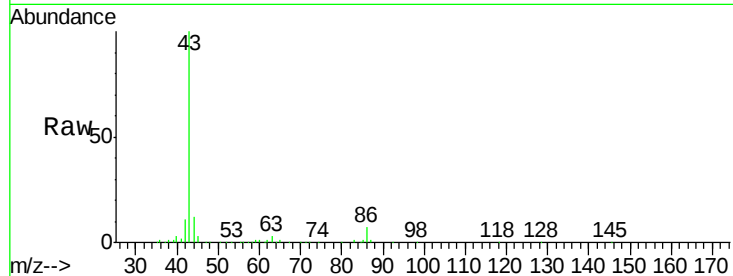
86 7.2

6.3

9.5

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#24

1,1-Dichloroethane

Concen: 2.981 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion: 63 Resp: 25363

Ion Ratio Lower Upper

63 100

98 6.5

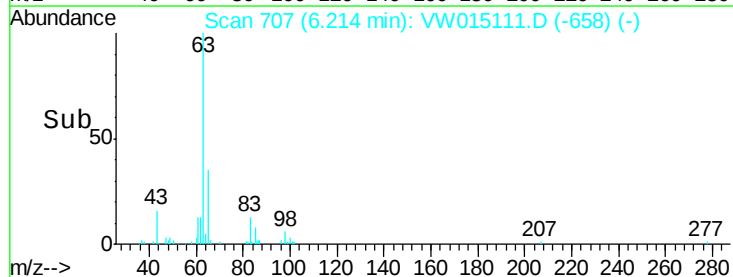
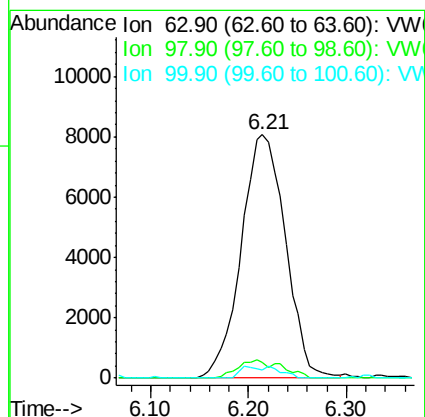
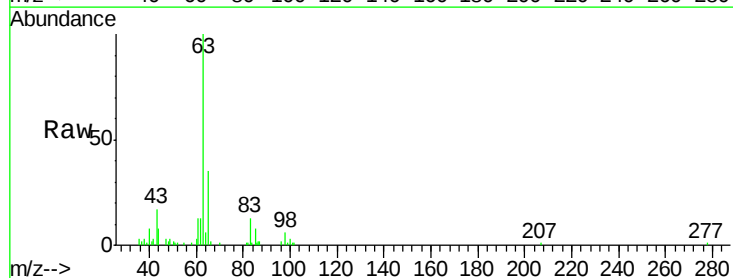
2.9

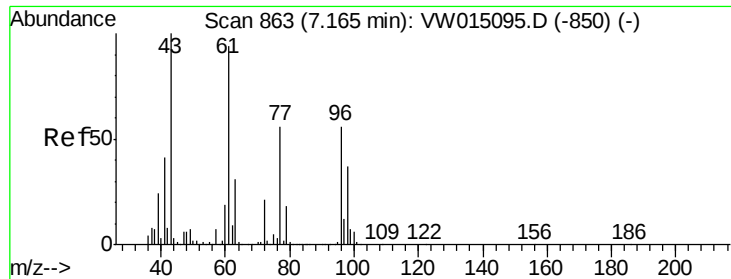
8.8

100 3.1

2.1

6.3





#25

2-Butanone

Concen: 20.808 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 28566

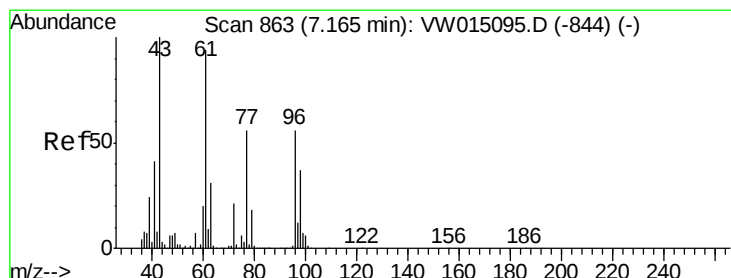
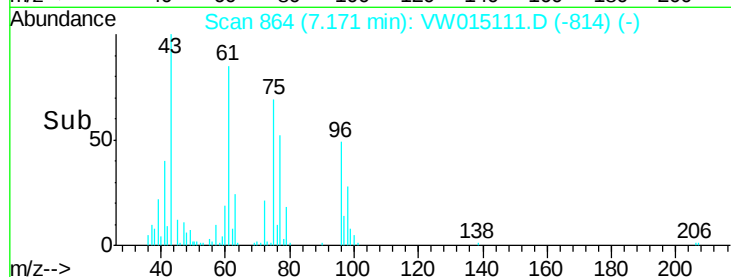
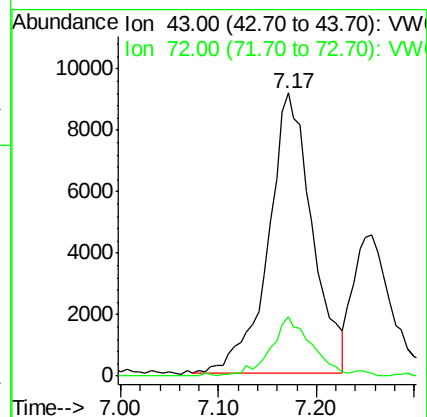
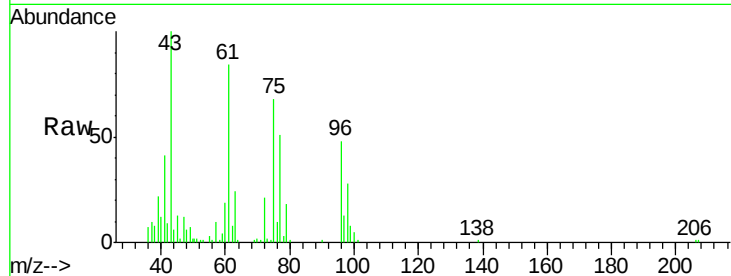
Ion Ratio Lower Upper

43 100

72 21.3 17.0 25.6

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#26

2,2-Dichloropropane

Concen: 3.759 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW015111.D

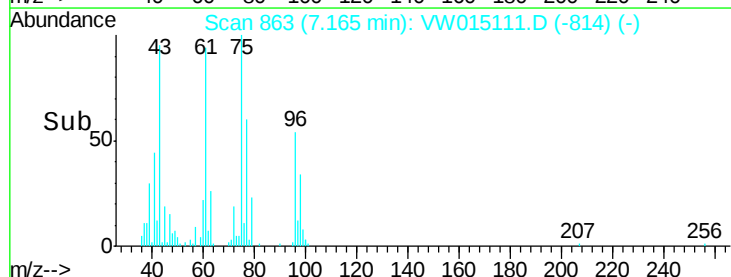
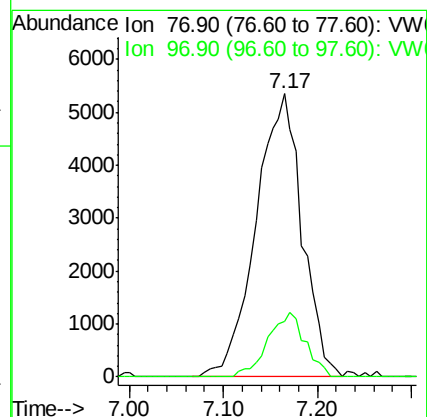
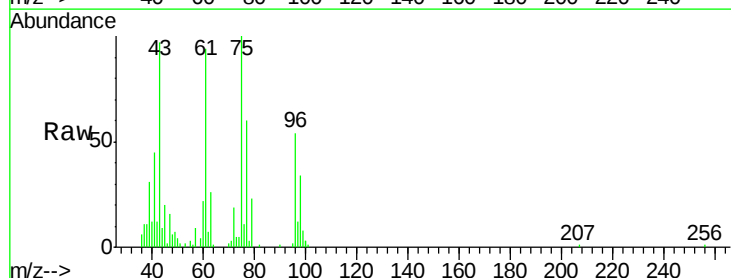
Acq: 10 Mar 2020 14:09

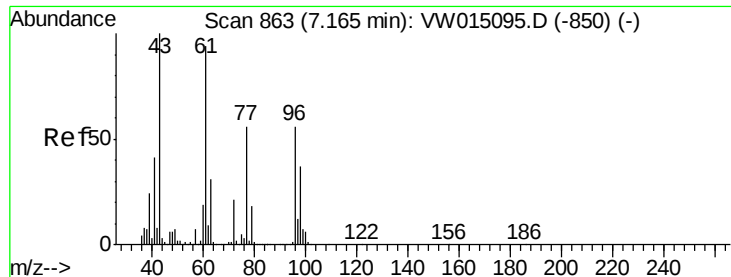
Tgt Ion: 77 Resp: 18291

Ion Ratio Lower Upper

77 100

97 18.5 10.6 31.8





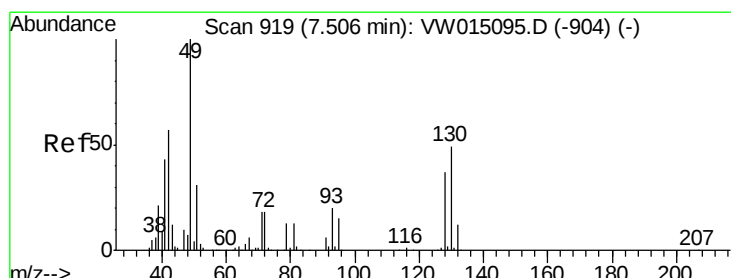
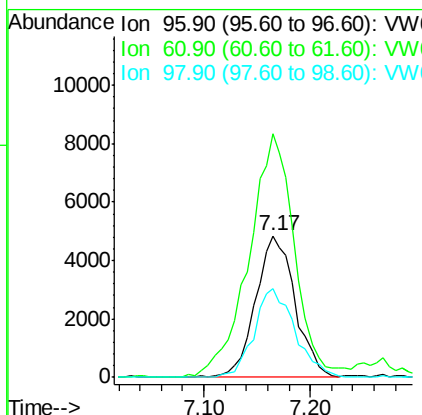
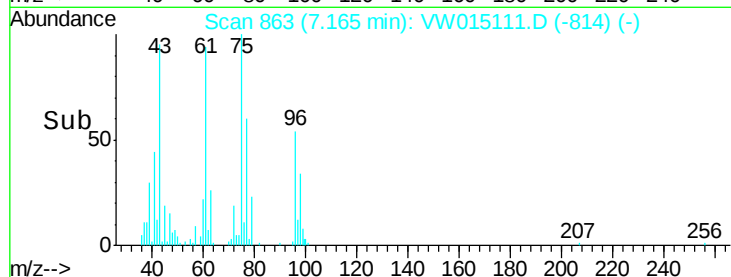
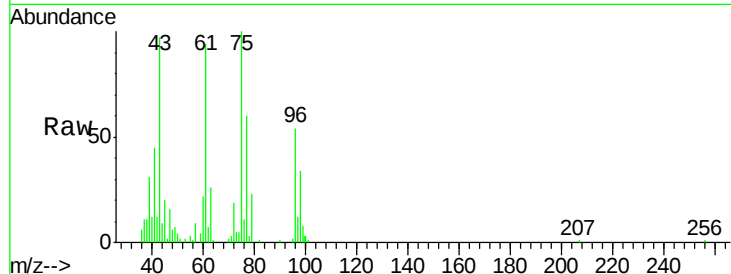
#27
 cis-1,2-Dichloroethene
 Concen: 2.982 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	198.2	0.0	343.4
98	65.3	0.0	127.6

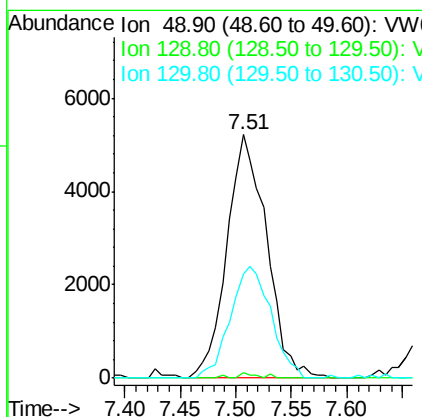
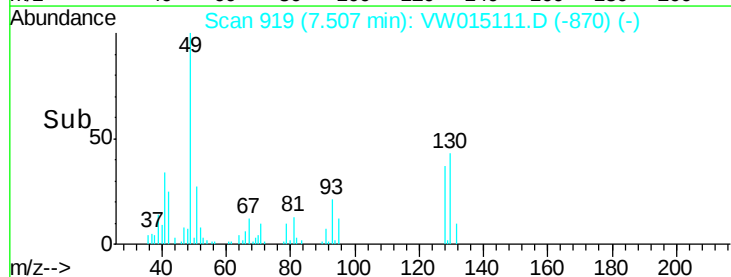
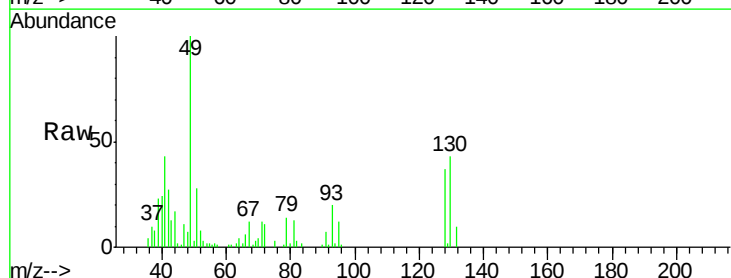
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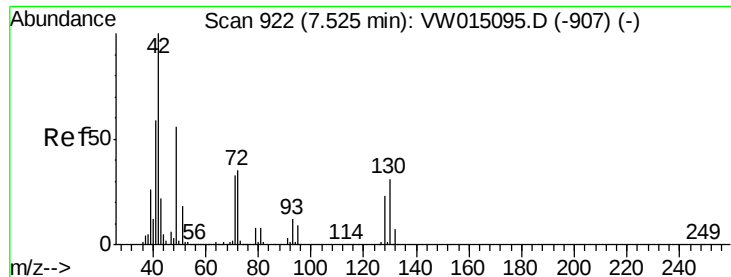
MMDadoda
 3/11/2020 3:22:12 PM



#28
 Bromochloromethane
 Concen: 3.164 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	3.0
130	47.0	39.8	59.6





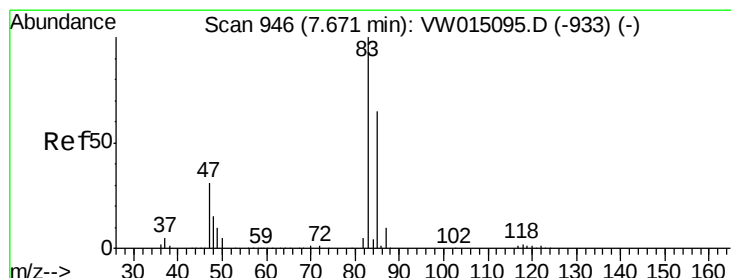
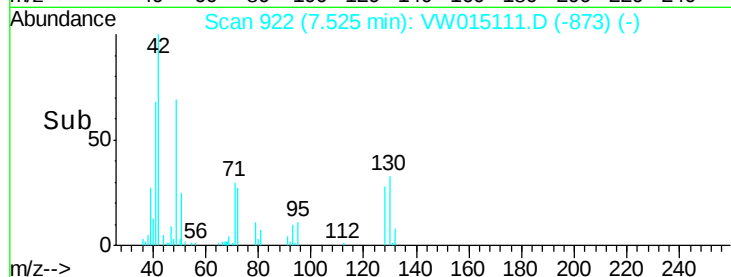
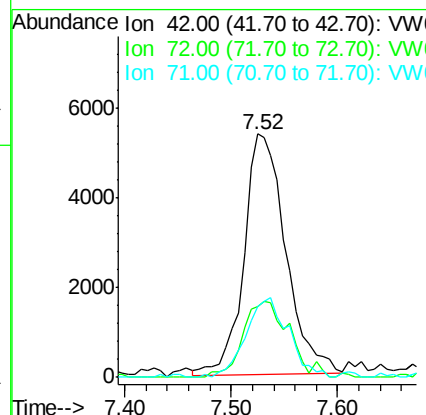
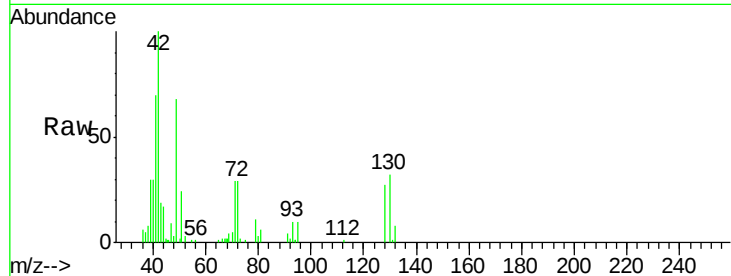
#29
Tetrahydrofuran
Concen: 17.315 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.7	27.8	41.6
71	33.4	26.4	39.6

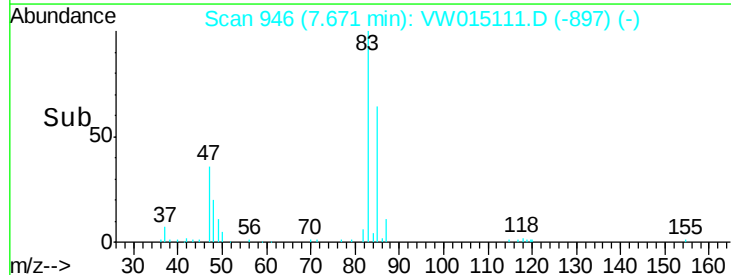
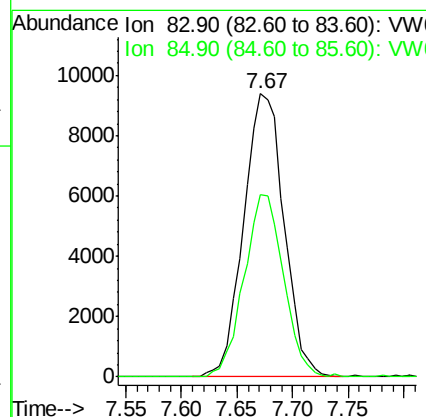
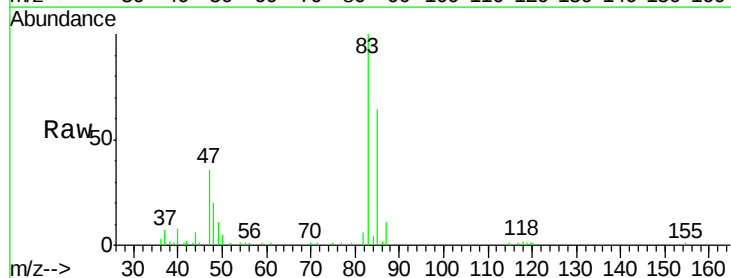
Manual Integrations
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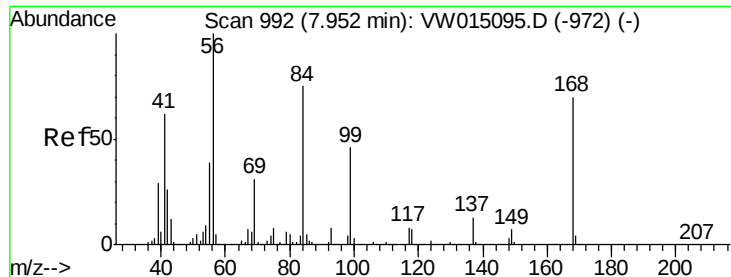
MMDadoda
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#30
Chloroform
Concen: 3.135 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.9	77.9





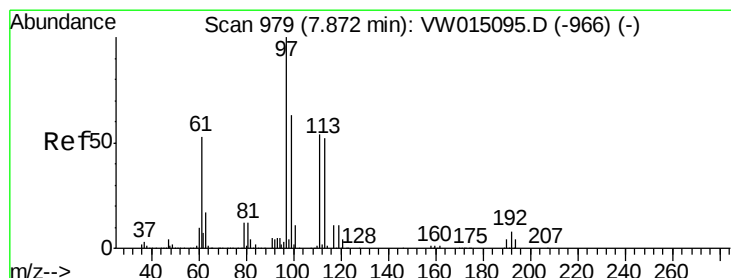
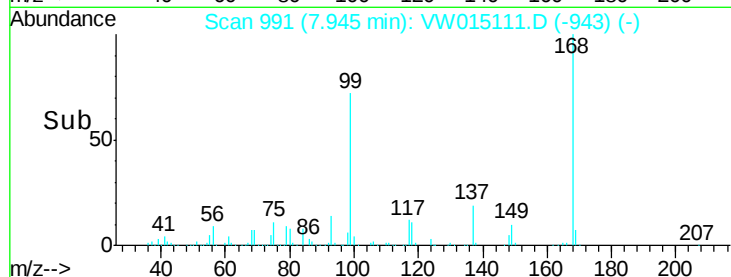
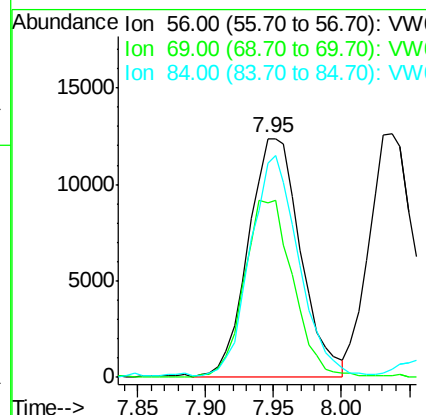
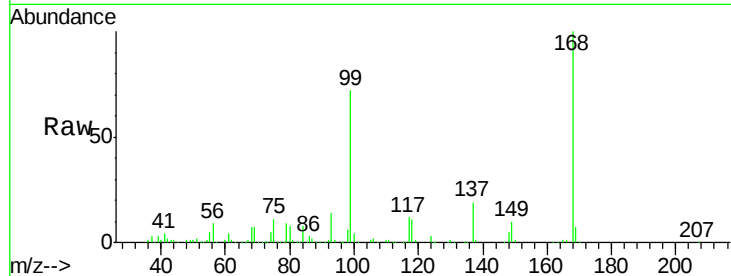
#31
Cyclohexane
Concen: 3.819 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
56	100		
69	73.0	24.6	37.0#
84	89.0	59.9	89.9

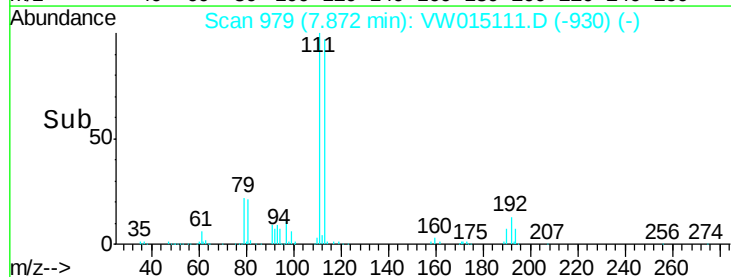
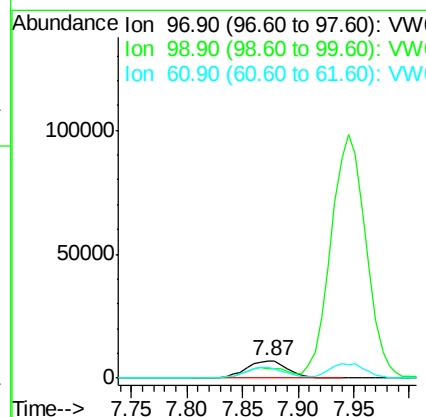
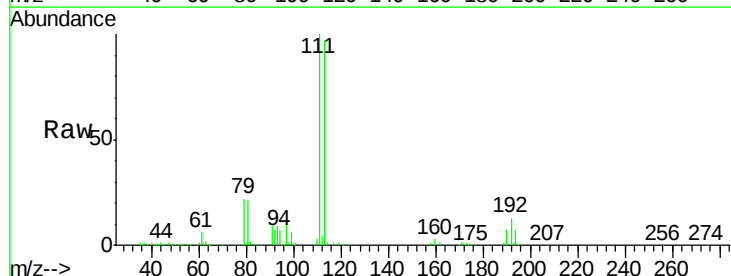
Manual Integrations
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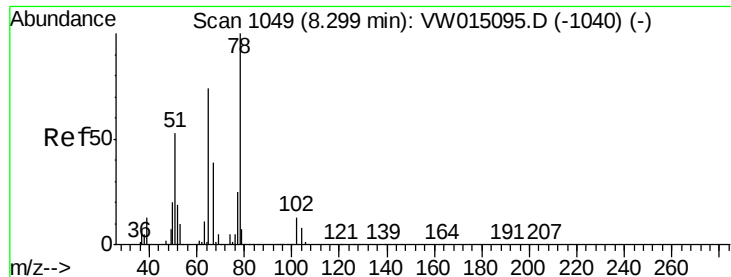
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 3.104 ug/l
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.9	51.3	76.9
61	59.0	44.0	66.0





#33

1,2-Dichloroethane-d4

Concen: 59.890 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 65 Resp: 262981

Ion Ratio Lower Upper

65 100

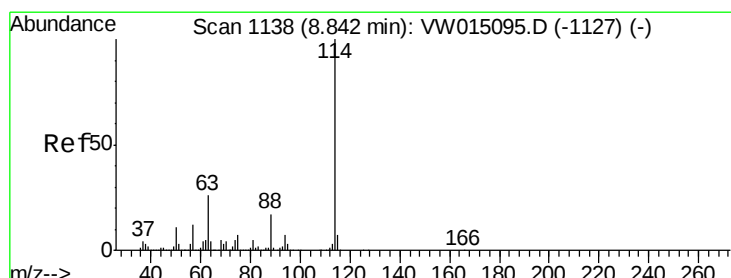
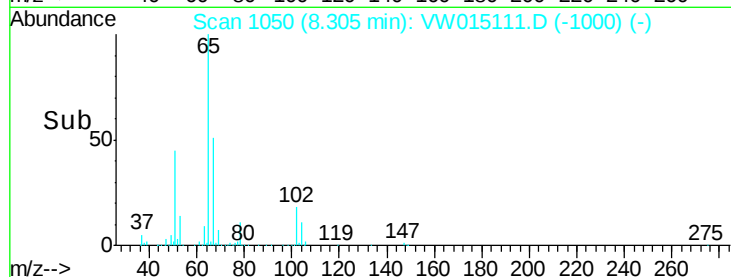
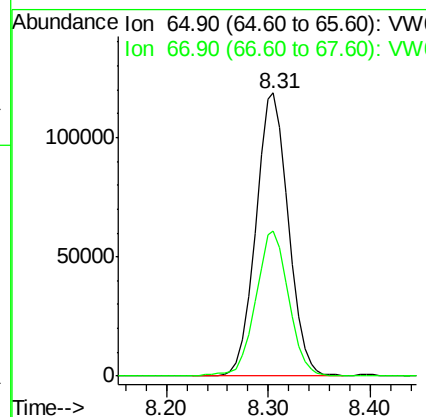
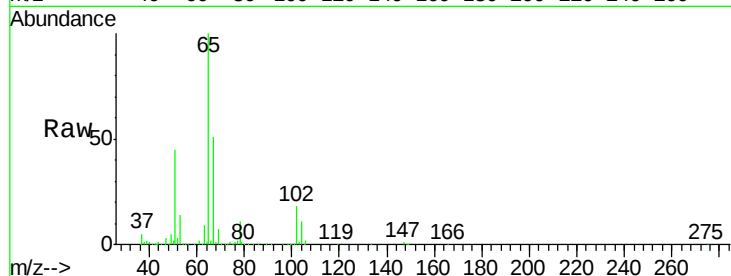
67 52.2 0.0 105.0

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

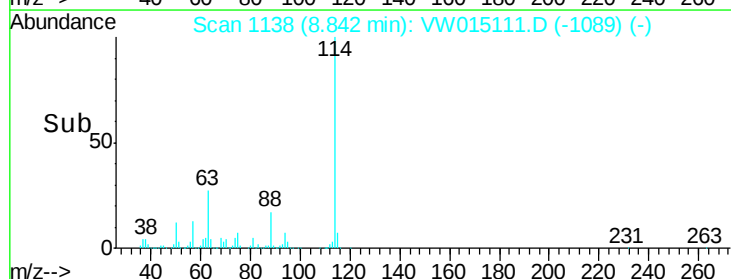
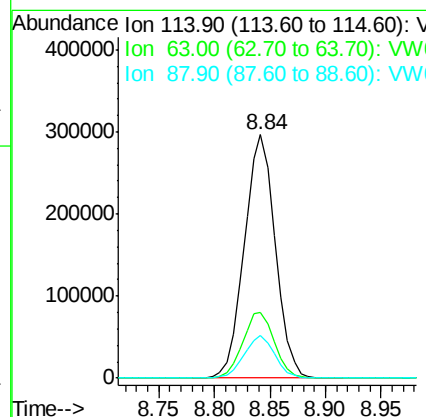
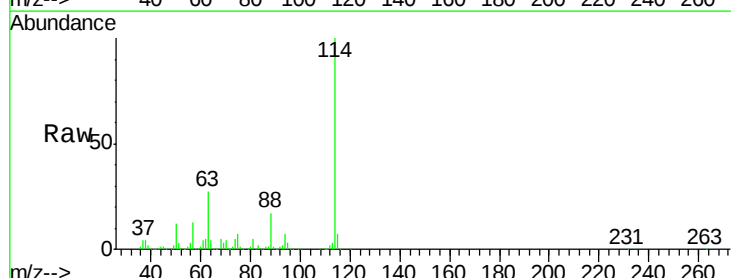
Tgt Ion: 114 Resp: 571882

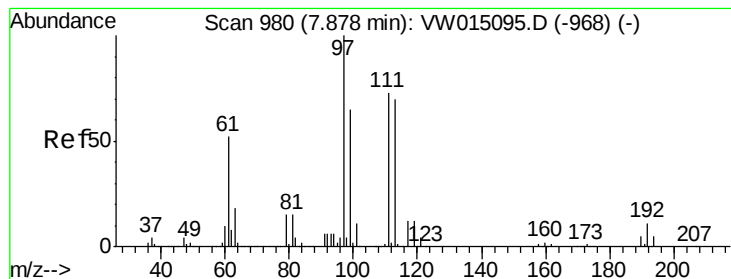
Ion Ratio Lower Upper

114 100

63 26.9 0.0 52.0

88 17.3 0.0 34.2





#35

Dibromofluoromethane

Concen: 53.412 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

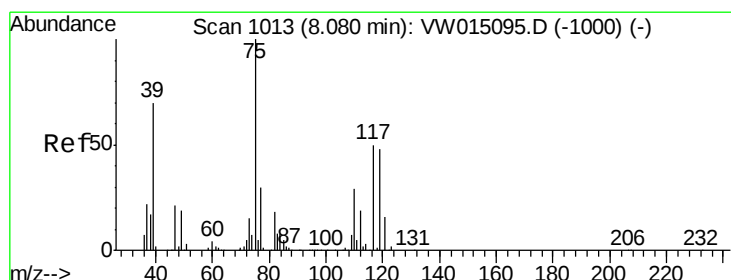
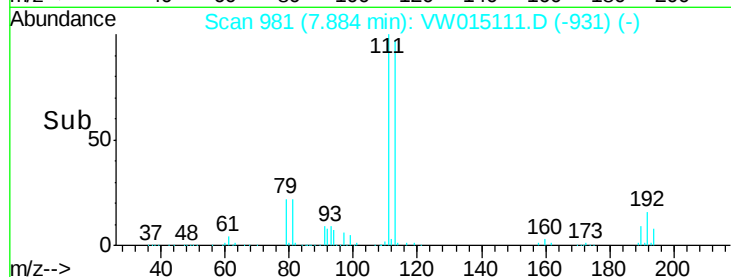
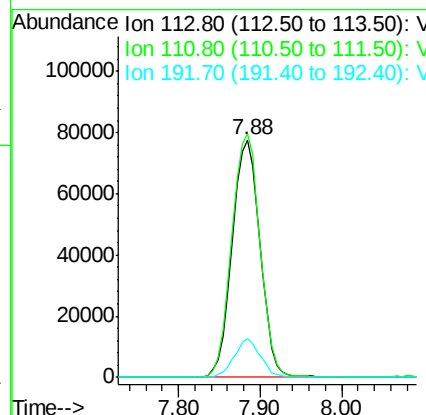
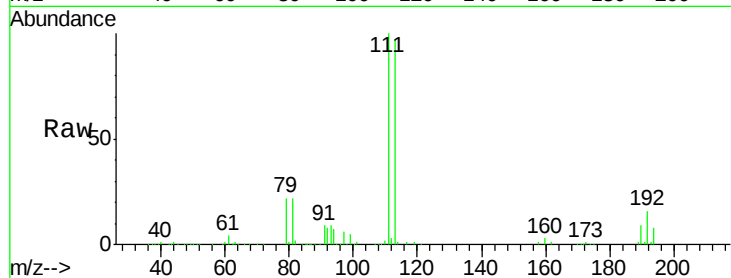
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	113	Resp:	182871
Ion Ratio	Lower	Upper	
113	100		
111	104.1	83.6	125.4
192	15.1	12.4	18.6

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#36

1,1-Dichloropropene

Concen: 2.885 ug/l

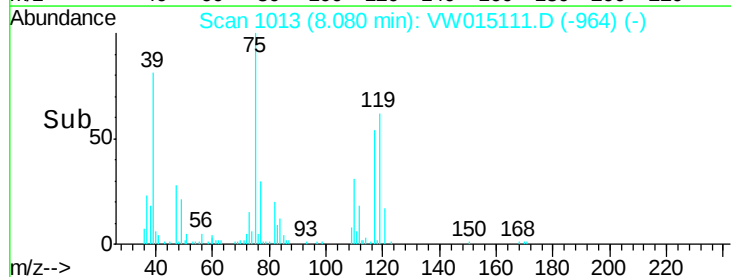
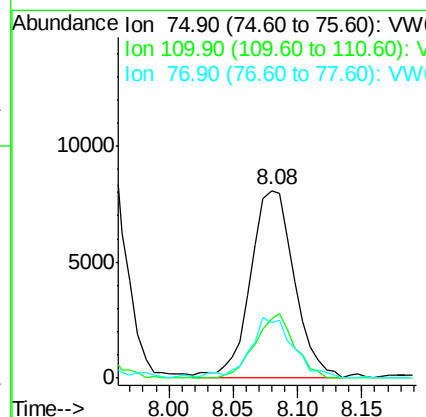
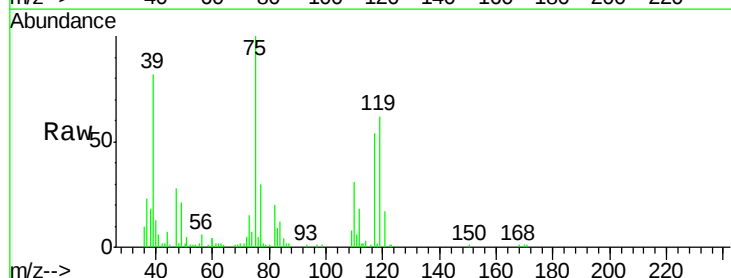
RT: 8.08 min Scan# 1013

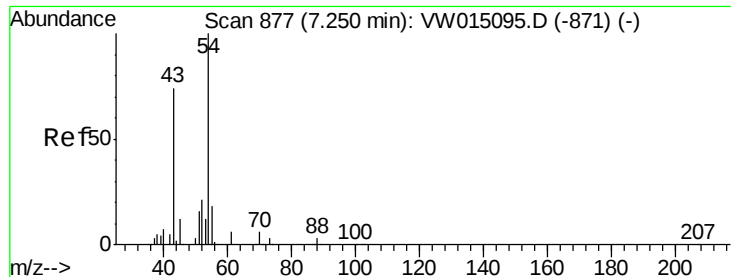
Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion:	75	Resp:	19134
Ion Ratio	Lower	Upper	
75	100		
110	30.6	14.7	44.1
77	32.1	24.2	36.4





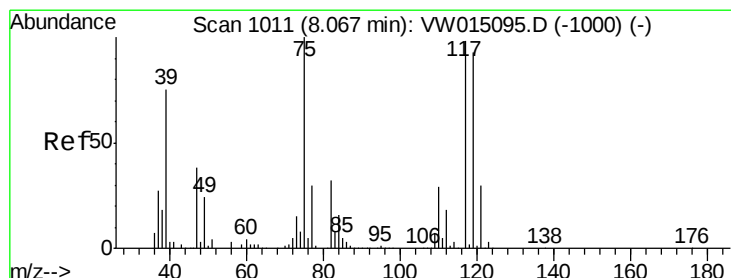
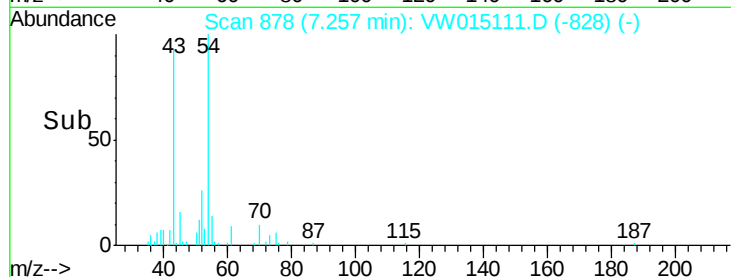
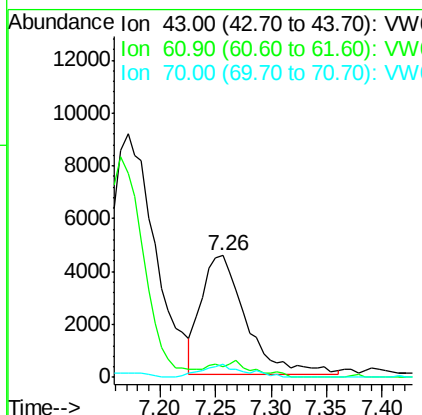
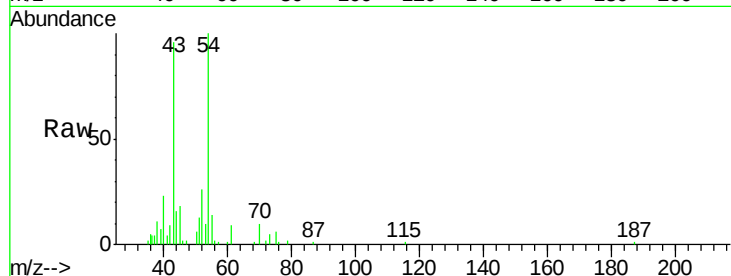
#37
Ethyl Acetate
Concen: 3.780 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.6	14.4
70	8.4	6.5	9.7

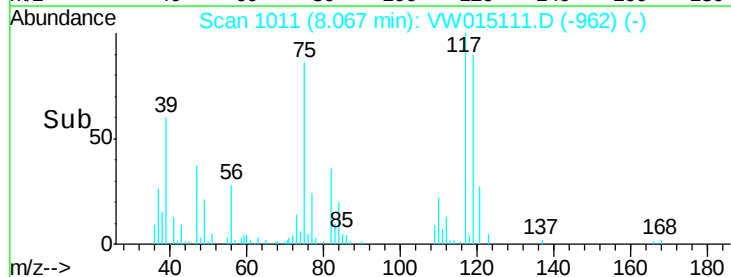
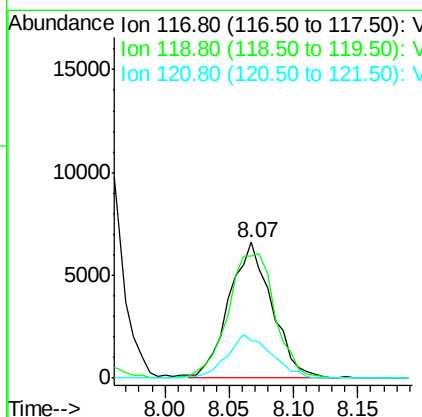
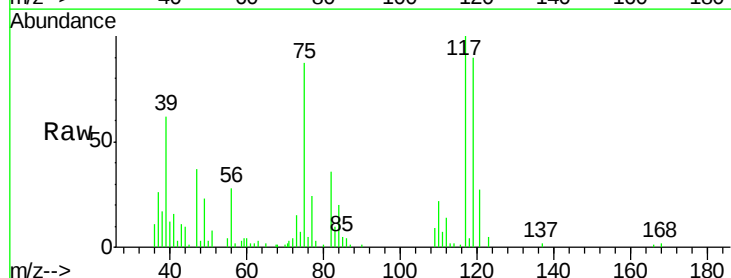
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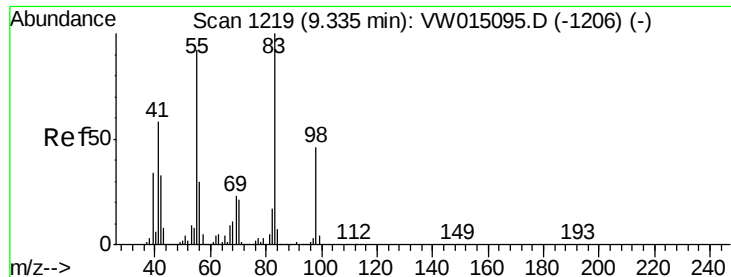
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#38
Carbon Tetrachloride
Concen: 2.834 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.3	75.8	113.8
121	27.5	24.5	36.7





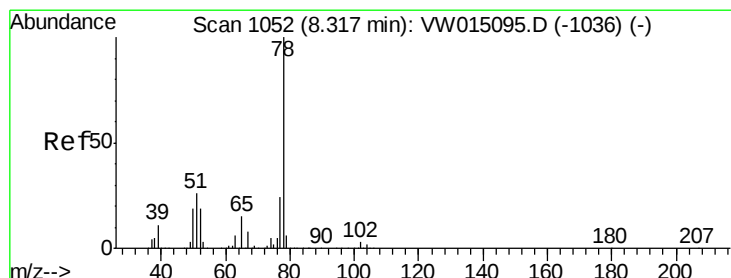
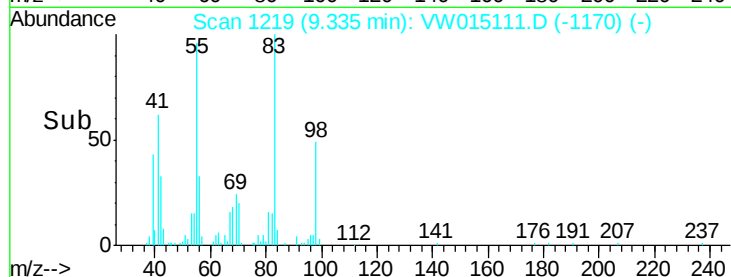
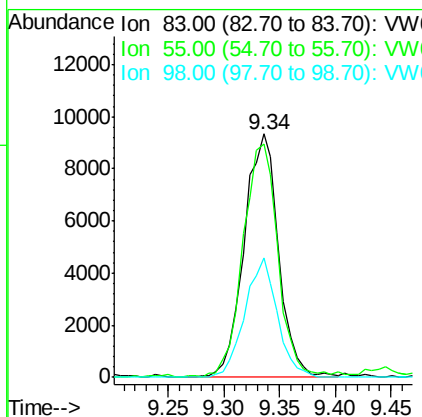
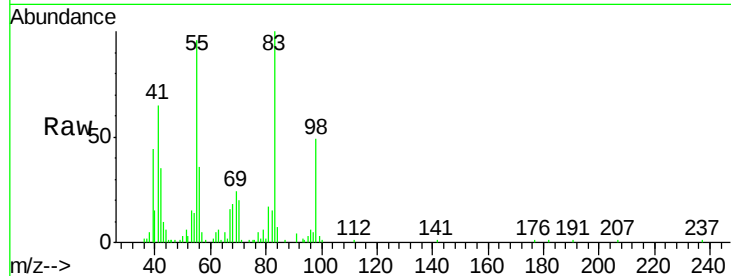
#39
Methvlcvclohexane
Concen: 2.652 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	95.0	73.5	110.3
98	48.9	37.2	55.8

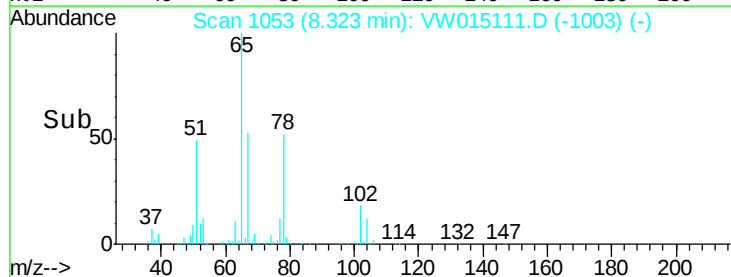
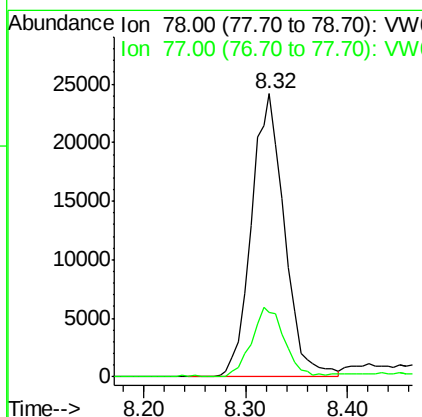
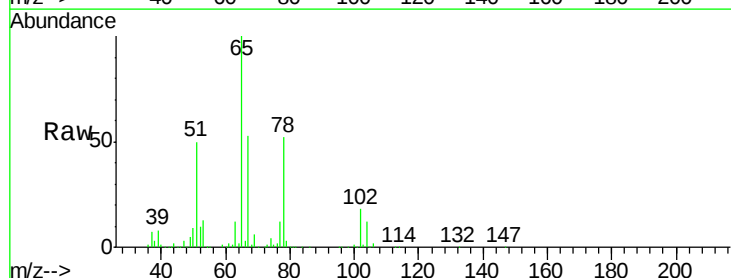
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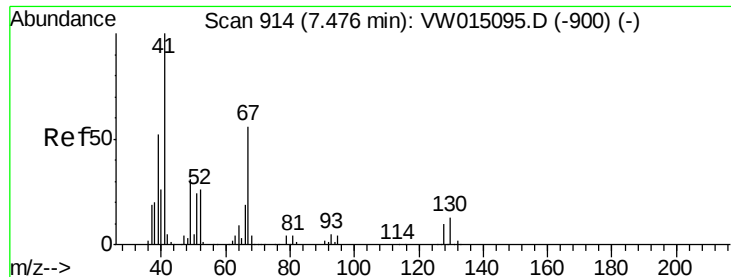
MMDadoda
3/11/2020 3:22:12 PM



#40
Benzene
Concen: 2.957 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.6	19.5	29.3





#41

Methacrylonitrile

Concen: 2.991 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

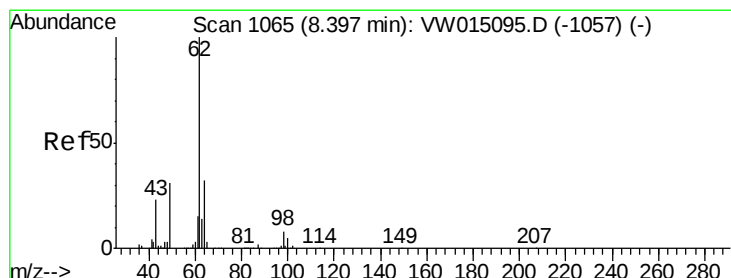
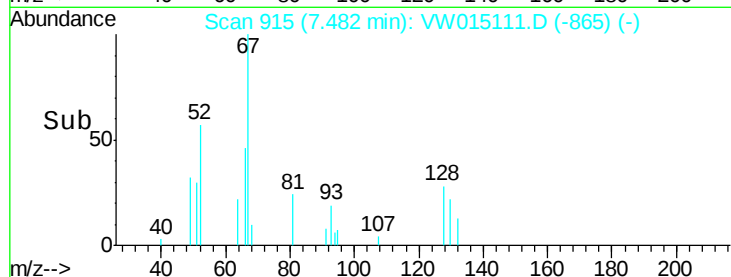
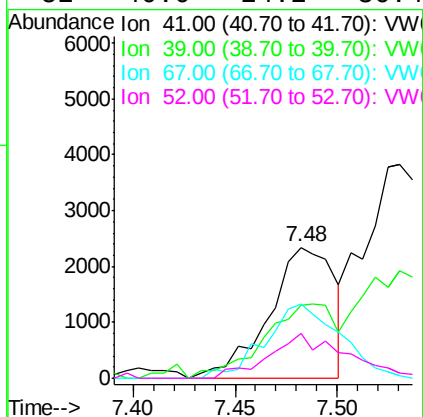
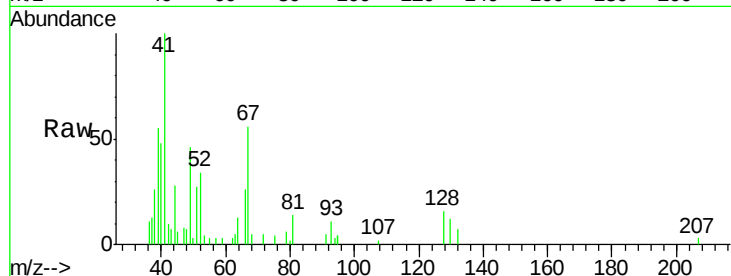
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.4	49.0	73.4
67	65.1	50.4	75.6
52	40.0	24.2	36.4

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 3.435 ug/l

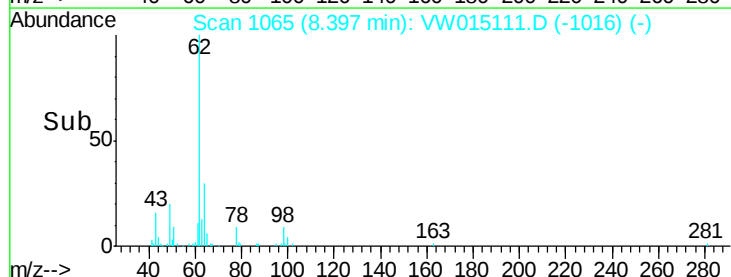
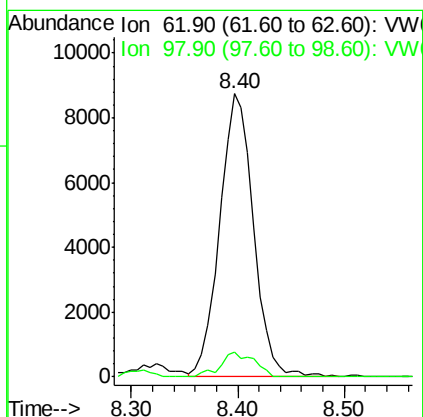
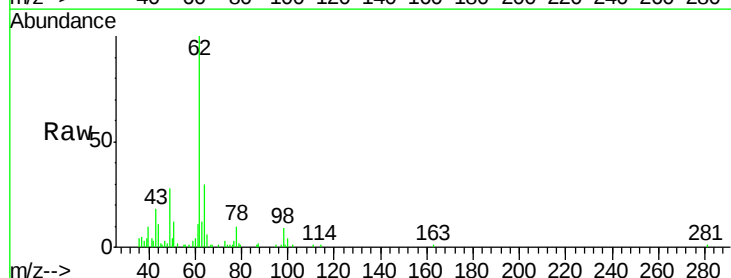
RT: 8.40 min Scan# 1065

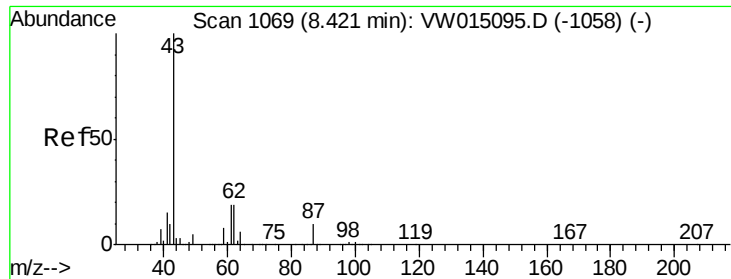
Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	16.0





#43

Isopropyl Acetate

Concen: 3.125 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

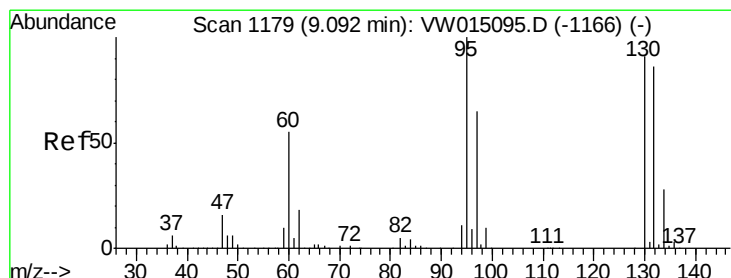
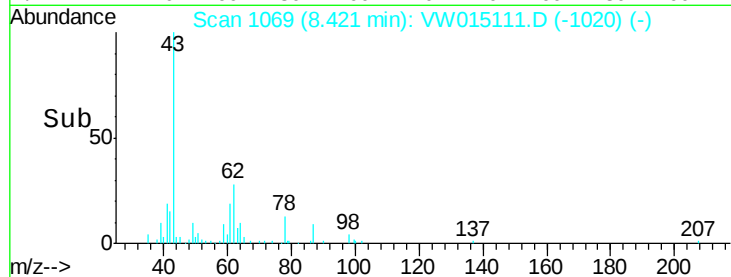
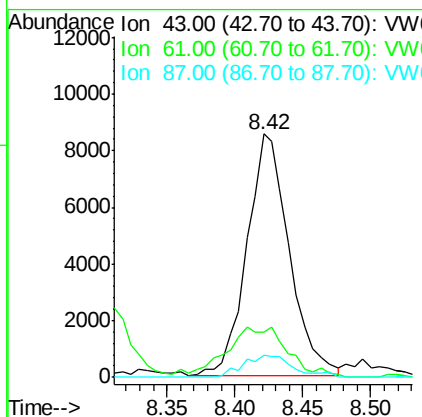
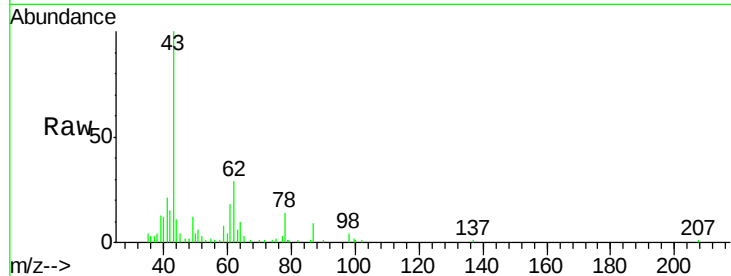
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	43	Resp:	18519
Ion	Ratio	Lower	Upper
43	100		
61	30.8	21.8	32.8
87	10.8	8.0	12.0

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#44

Trichloroethene

Concen: 2.836 ug/l

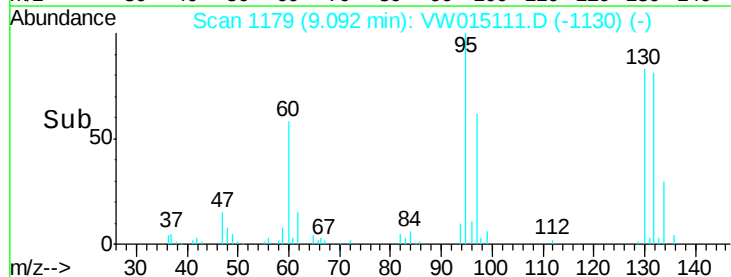
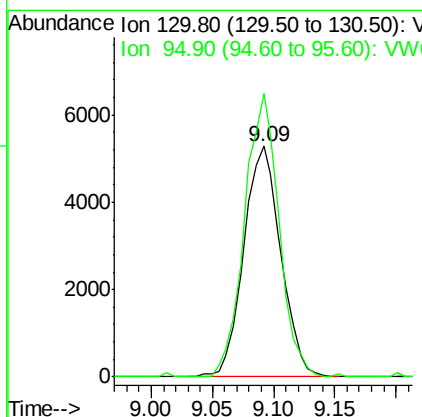
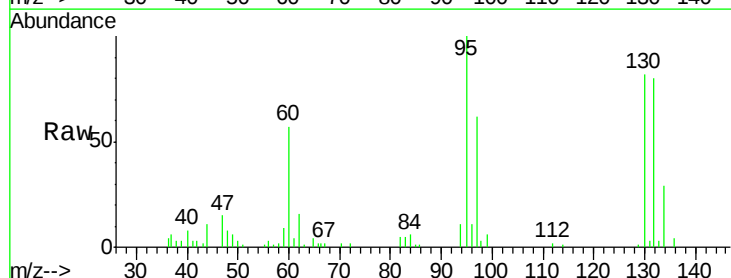
RT: 9.09 min Scan# 1179

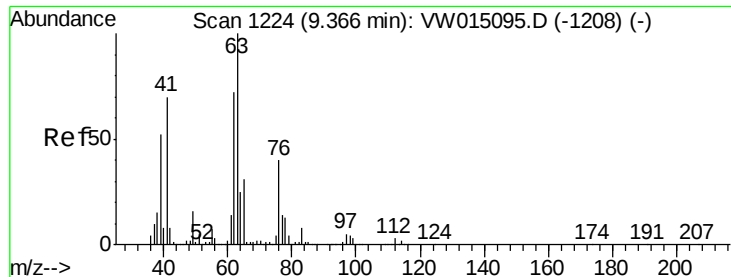
Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion:	130	Resp:	11126
Ion	Ratio	Lower	Upper
130	100		
95	122.6	0.0	219.8





#45

1,2-Dichloropropane

Concen: 2.887 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 63 Resp: 14329

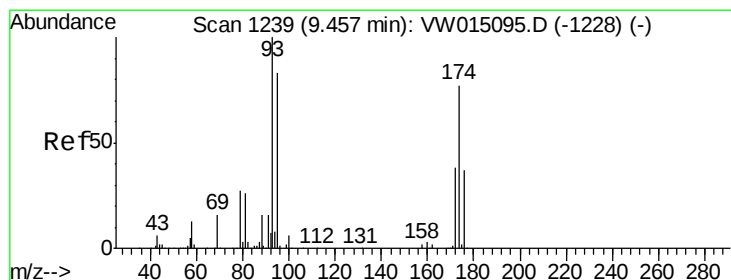
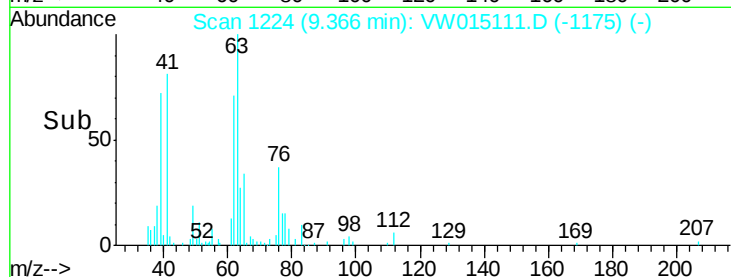
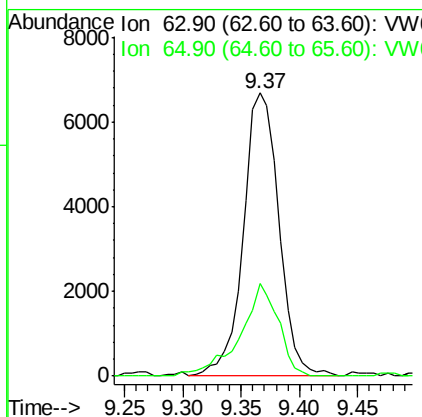
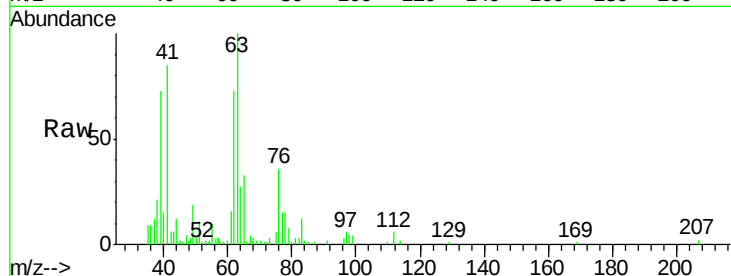
Ion Ratio Lower Upper

63 100

65 32.9 24.6 36.8

Manual Integrations
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3/11/2020 3:22:12 PM



#46

Dibromomethane

Concen: 3.180 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

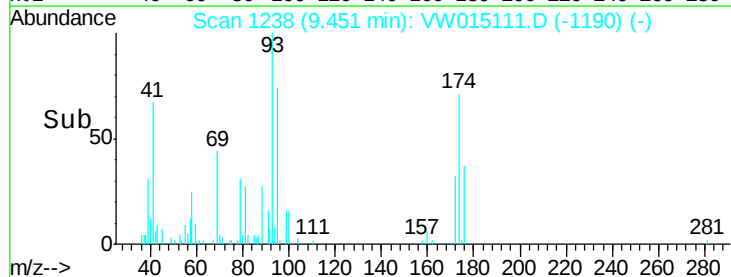
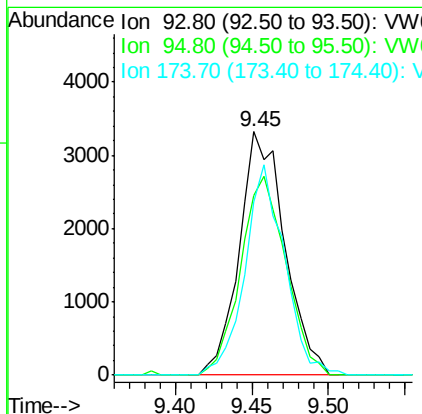
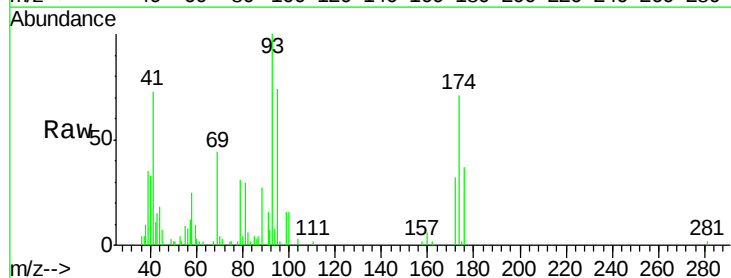
Tgt Ion: 93 Resp: 6863

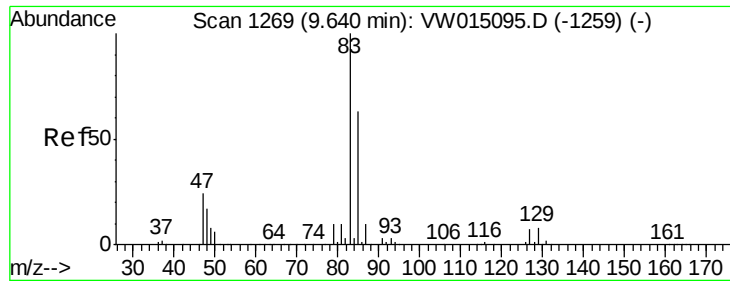
Ion Ratio Lower Upper

93 100

95 81.6 66.6 100.0

174 75.5 60.6 91.0





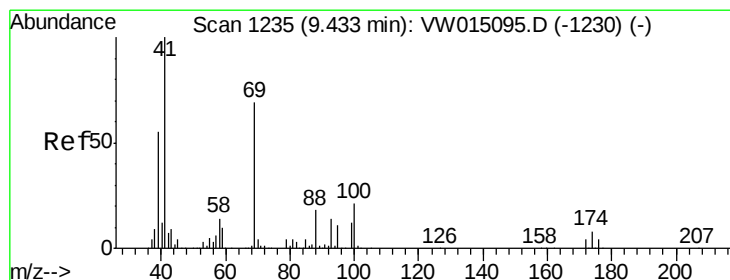
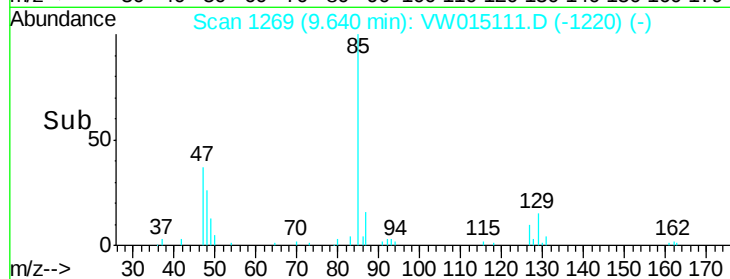
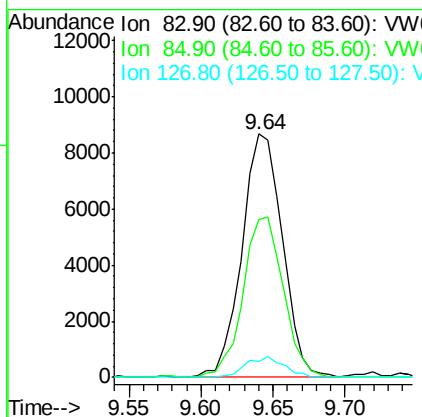
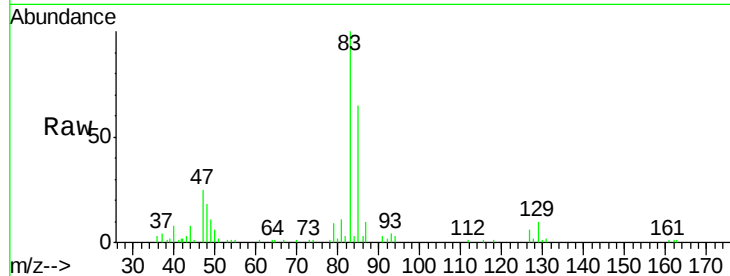
#47
Bromodichloromethane
Concen: 2.931 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	83	Resp	16887
Ion Ratio	100	Lower	Upper
83	100		
85	64.9	50.7	76.1
127	6.3	5.5	8.3

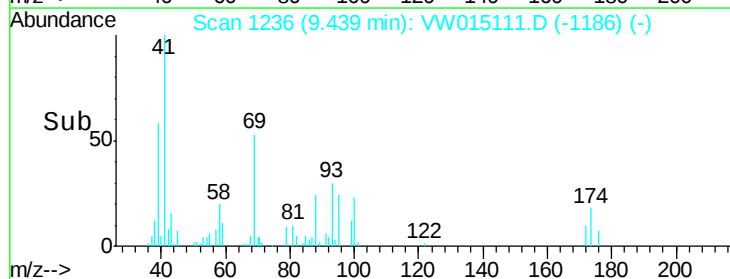
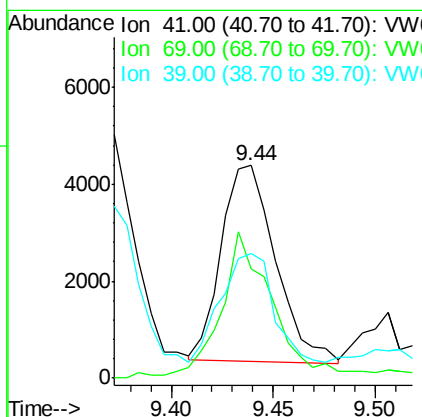
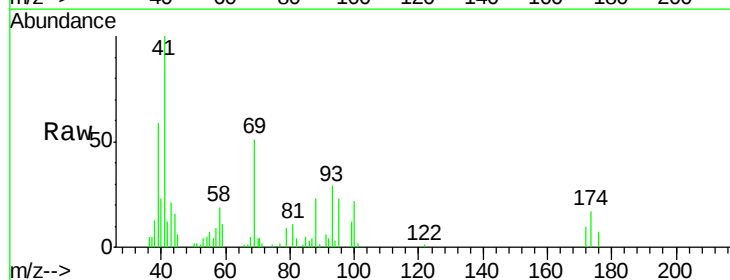
Manual Integrations
APPROVED

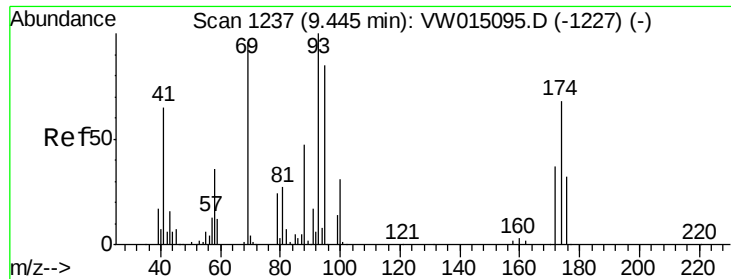
MMDadoda
3/11/2020 3:22:12 PM



#48
Methyl methacrylate
Concen: 2.724 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	41	Resp	7451
Ion Ratio	100	Lower	Upper
41	100		
69	72.5	58.7	88.1
39	55.8	45.1	67.7





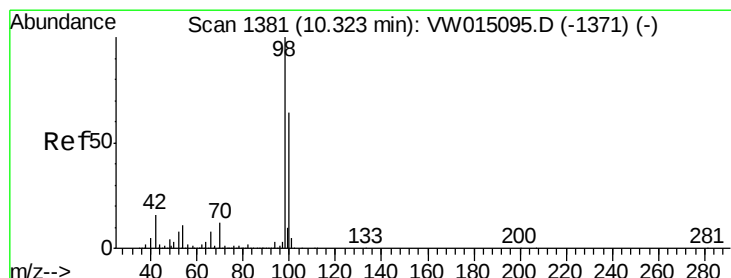
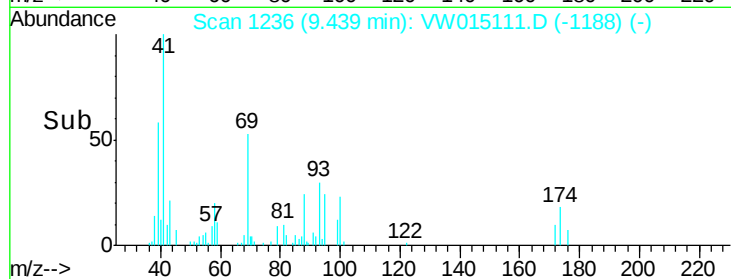
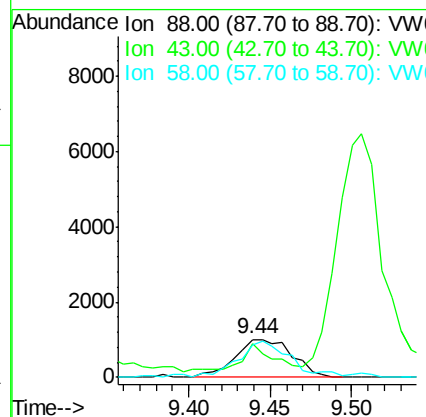
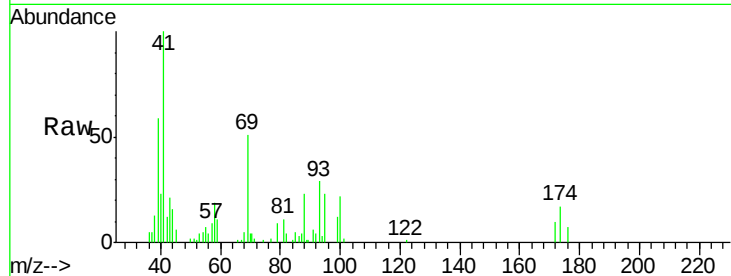
#49
1,4-Dioxane
Concen: 74.479 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. -0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
88	100		
43	55.5	35.8	53.8#
58	90.9	64.0	96.0

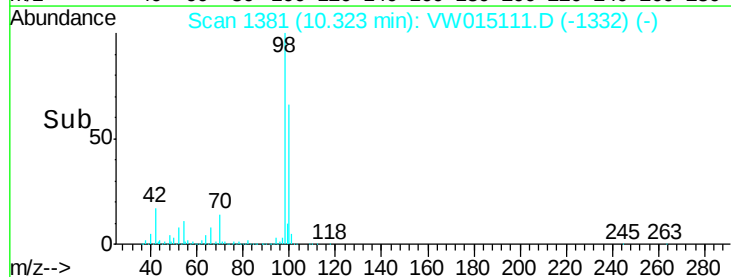
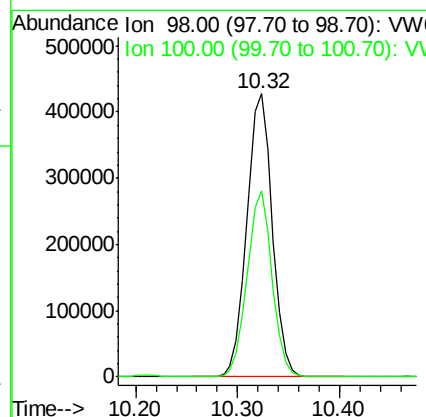
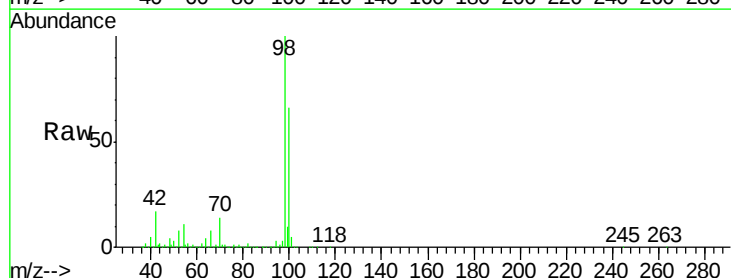
Manual Integrations
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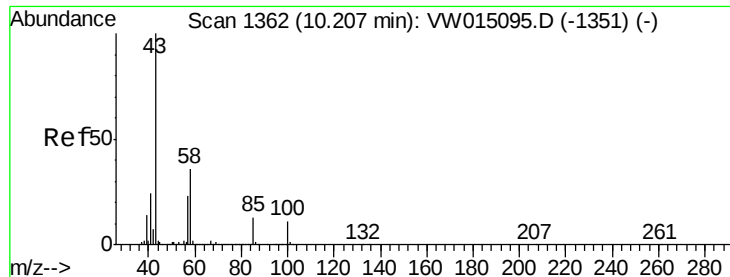
MMDadoda
3/11/2020 3:22:12 PM



#50
Toluene-d8
Concen: 51.653 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 14.939 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 48896

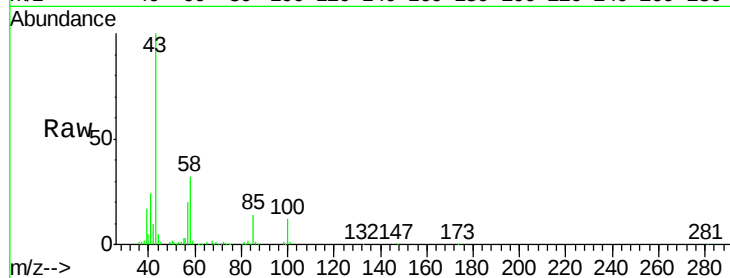
Ion Ratio Lower Upper

43 100

58 34.5 28.0 42.0

Manual Integrations
APPROVED

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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.21

30000

25000

20000

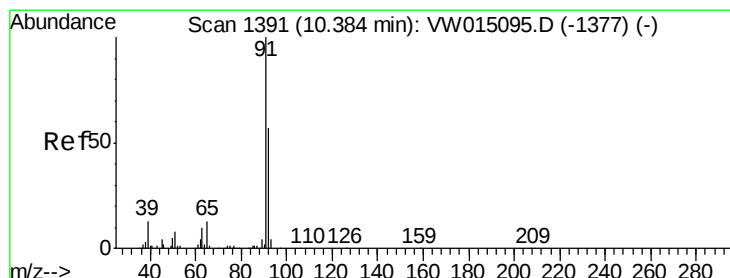
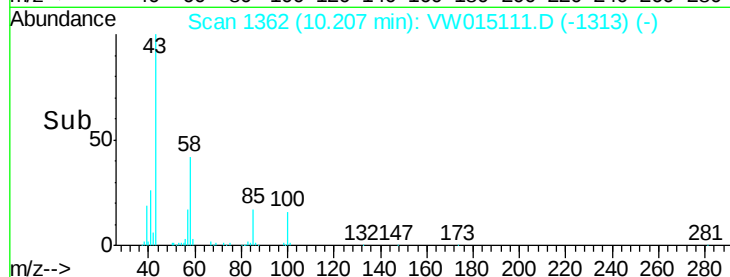
15000

10000

5000

0

Time-->



#52

Toluene

Concen: 2.793 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW015111.D

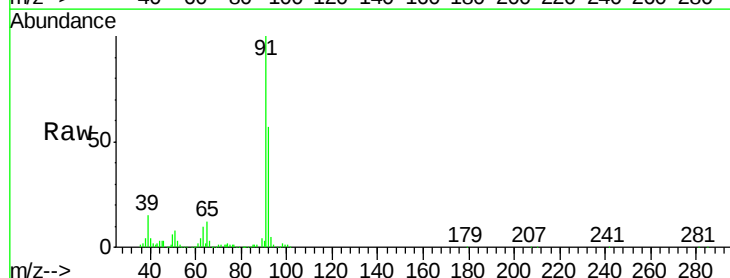
Acq: 10 Mar 2020 14:09

Tgt Ion: 92 Resp: 29568

Ion Ratio Lower Upper

92 100

91 177.9 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

10.38

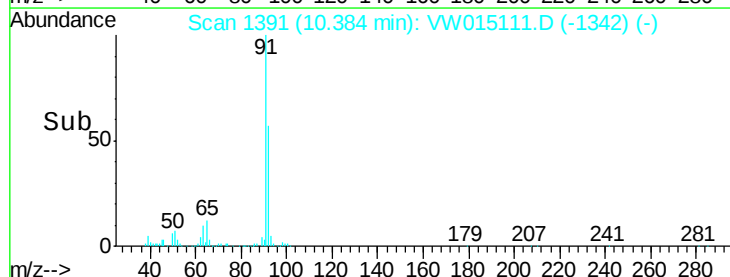
30000

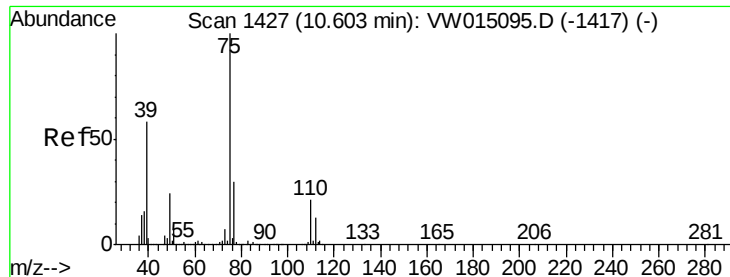
20000

10000

0

Time-->





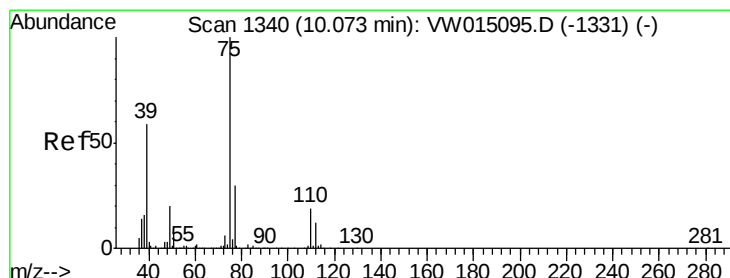
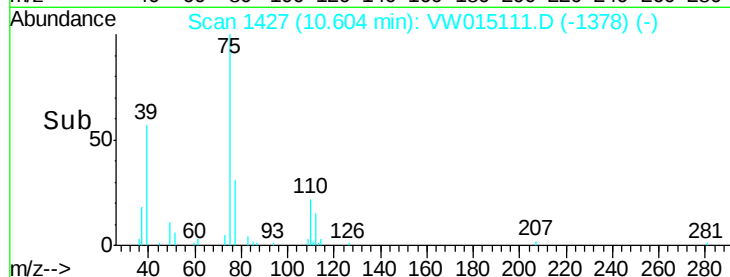
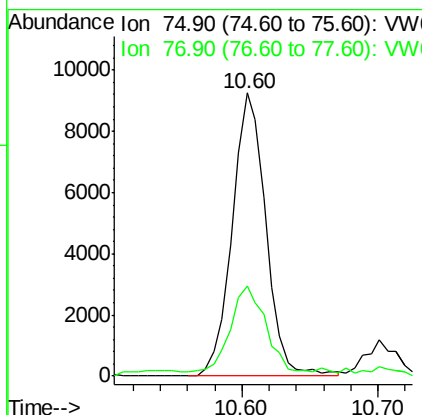
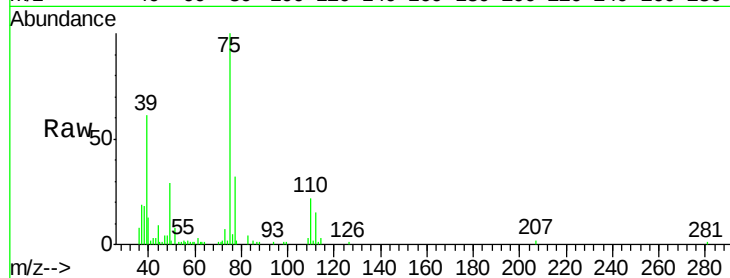
#53
t-1,3-Dichloropropene
Concen: 2.815 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.4	36.6

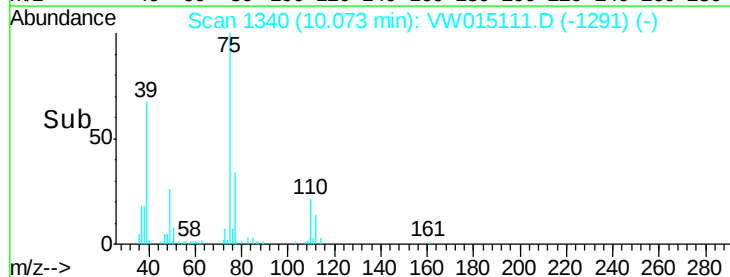
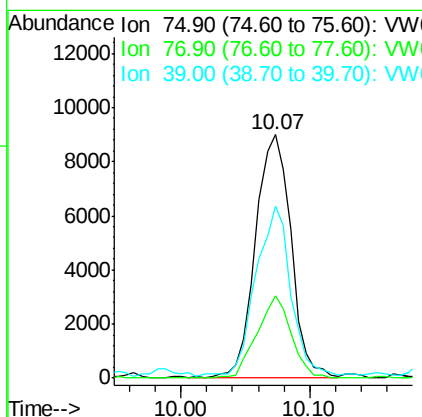
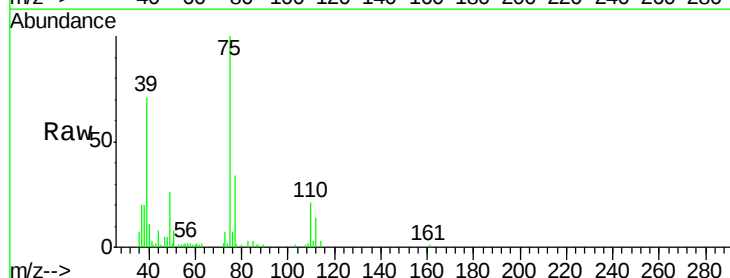
Manual Integrations
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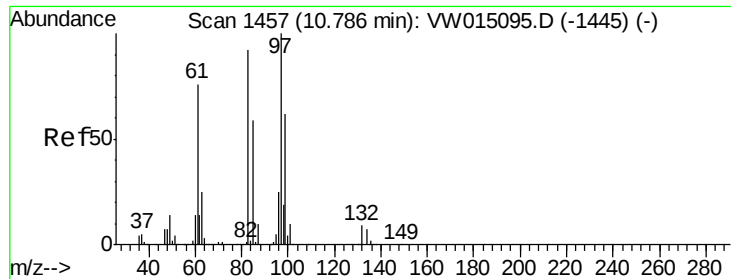
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 2.487 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.7	24.3	36.5
39	69.2	47.0	70.6





#55

1,1,2-Trichloroethane

Concen: 3.265 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

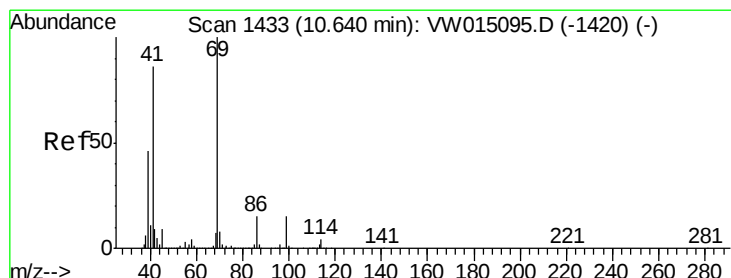
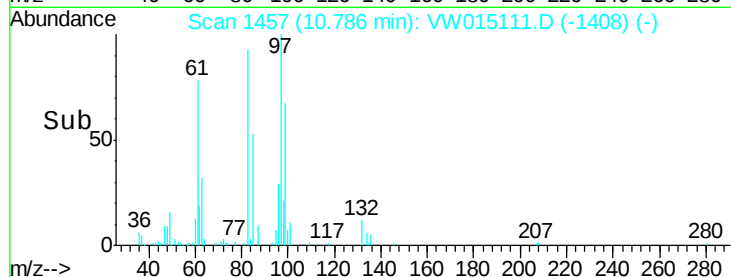
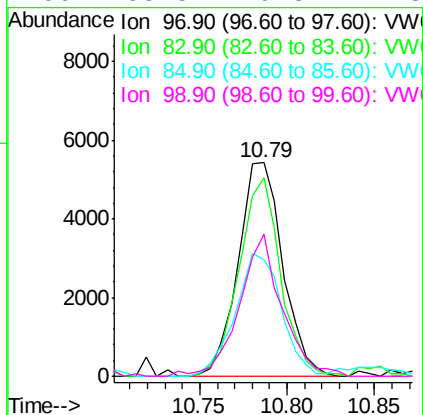
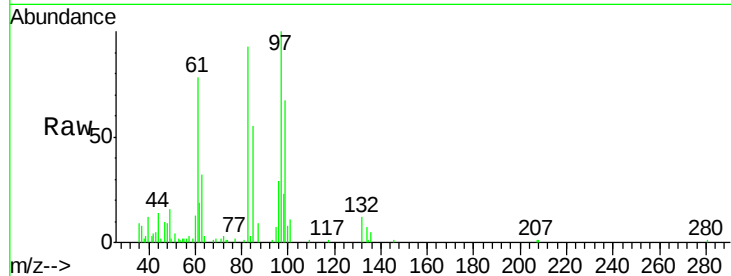
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	97	Resp:	9656
Ion	Ratio	Lower	Upper
97	100		
83	93.0	74.0	111.0
85	54.8	46.9	70.3
99	65.5	49.8	74.8

Manual Integrations
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3/11/2020 3:22:12 PM



#56

Ethyl methacrylate

Concen: 2.744 ug/l

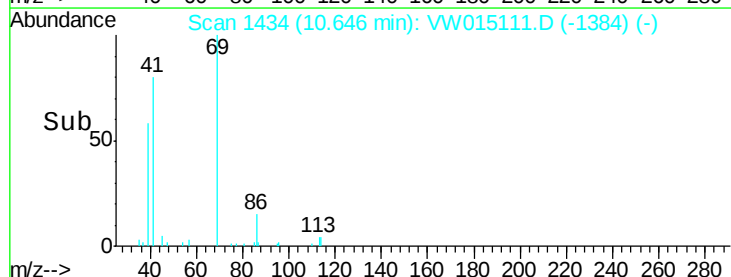
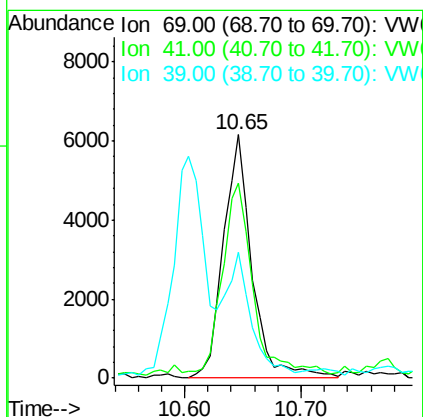
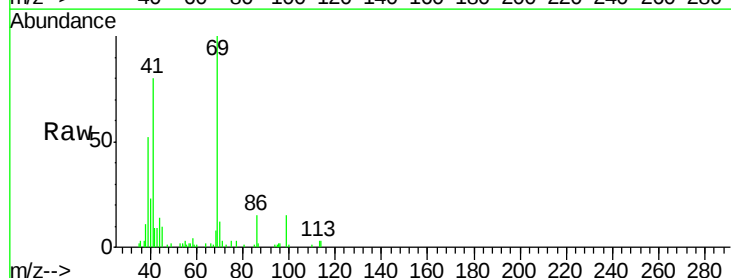
RT: 10.65 min Scan# 1434

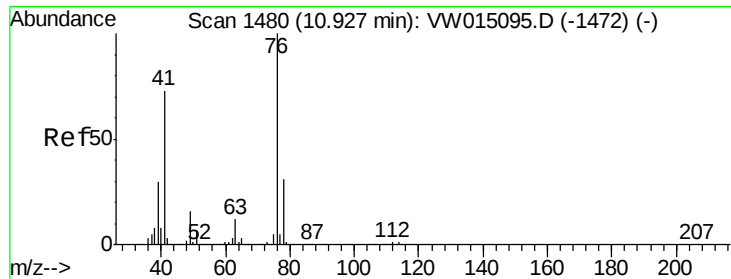
Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion:	69	Resp:	10469
Ion	Ratio	Lower	Upper
69	100		
41	83.9	65.8	98.6
39	45.5	31.2	46.8





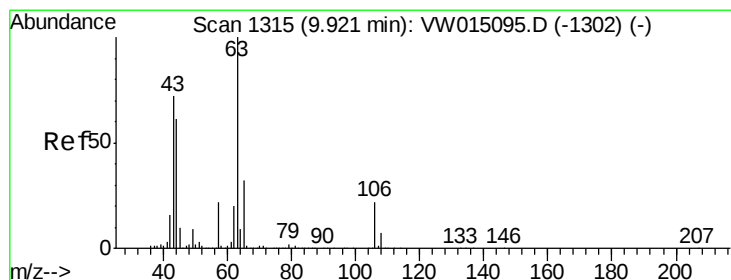
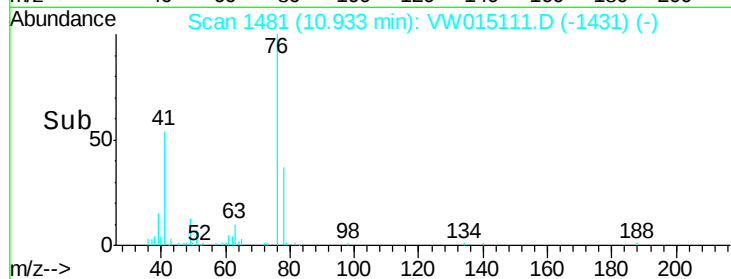
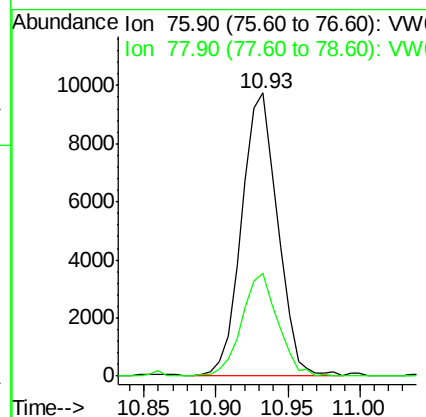
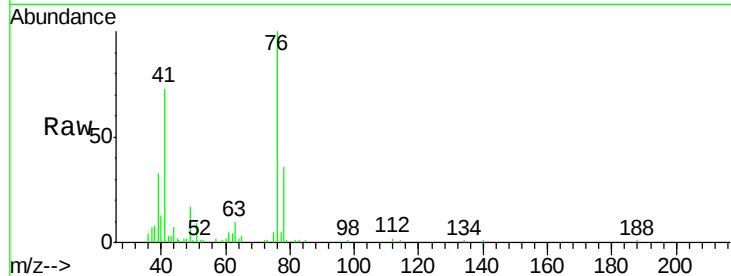
#57
 1,3-Dichloropropane
 Concen: 3.012 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.01 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion: 76 Resp: 16960
 Ion Ratio Lower Upper
 76 100
 78 36.4 25.3 37.9

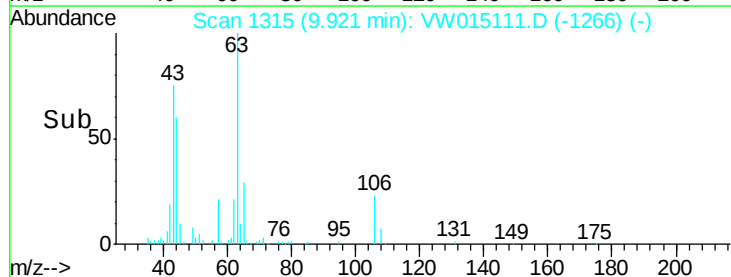
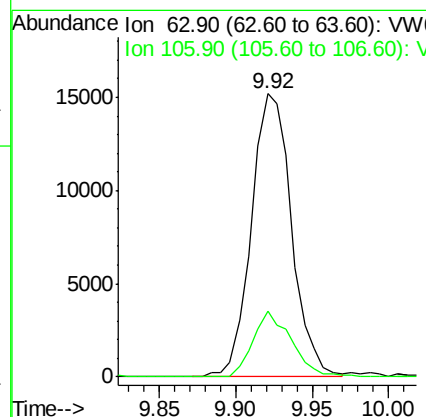
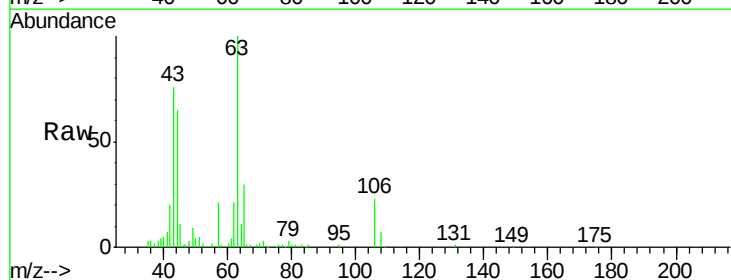
Manual Integrations
 APPROVED

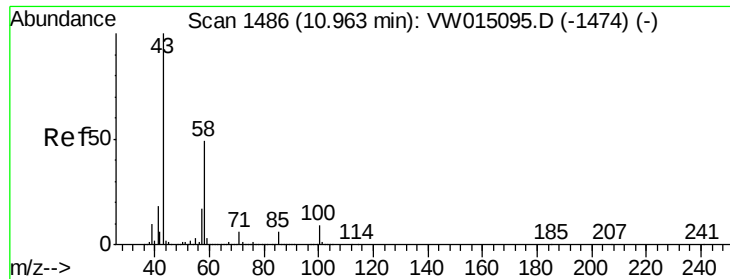
MMDadoda
 3/11/2020 3:22:12 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 12.402 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Tgt Ion: 63 Resp: 27766
 Ion Ratio Lower Upper
 63 100
 106 22.1 18.0 27.0





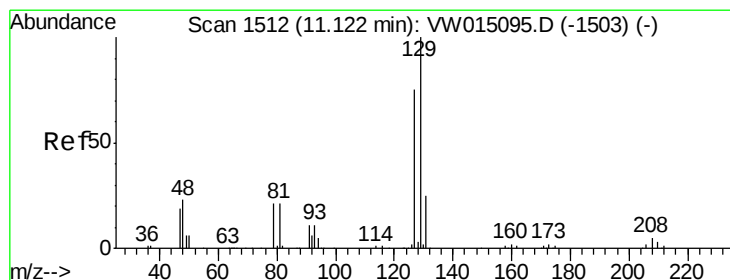
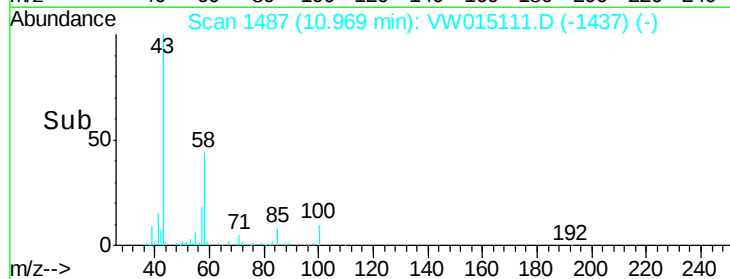
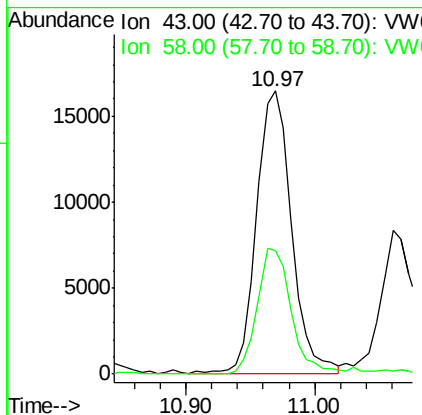
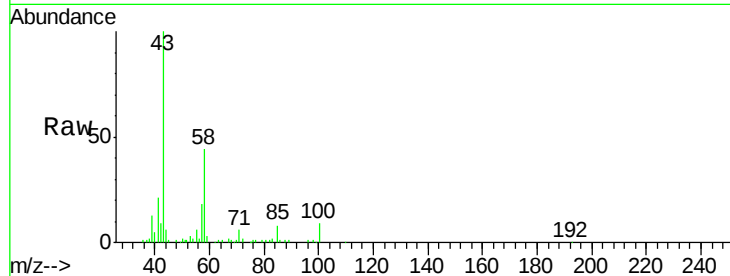
#59
2-Hexanone
Concen: 15.049 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 30767
Ion Ratio Lower Upper
43 100
58 43.5 24.6 73.8

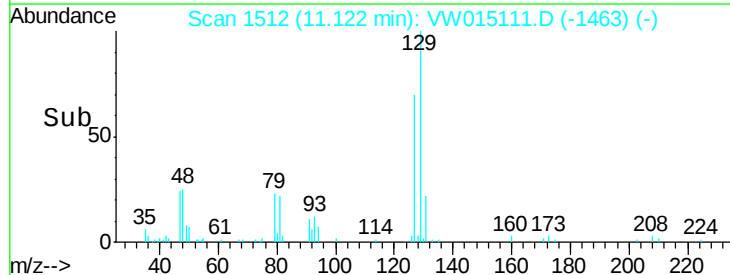
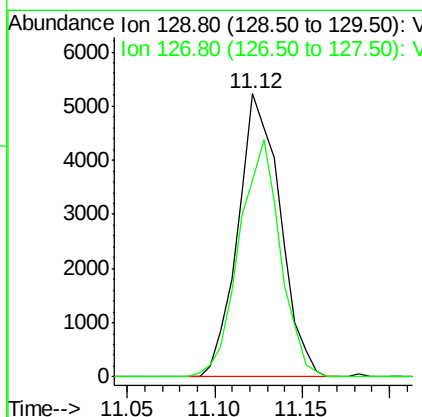
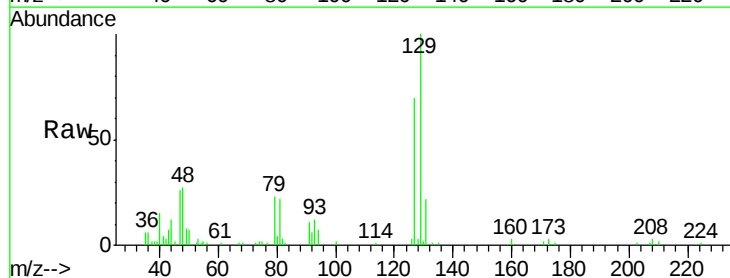
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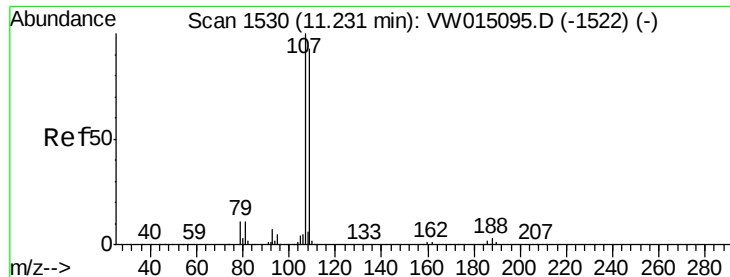
MMDadoda
3/11/2020 3:22:12 PM



#60
Dibromochloromethane
Concen: 2.893 ug/l
RT: 11.12 min Scan# 1512
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion: 129 Resp: 8835
Ion Ratio Lower Upper
129 100
127 81.6 38.7 116.1





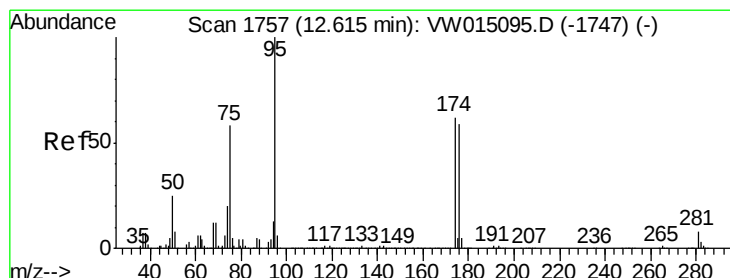
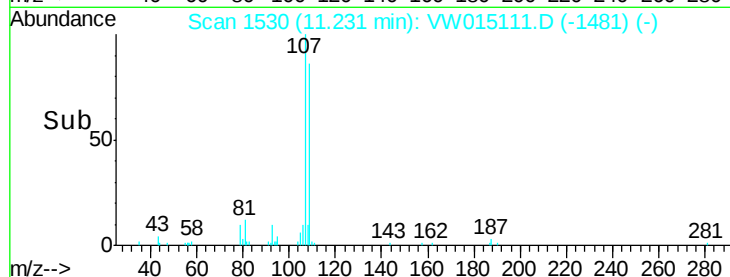
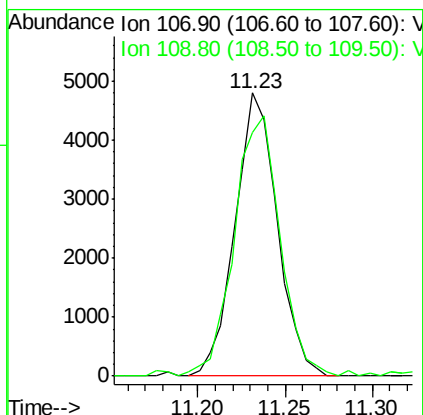
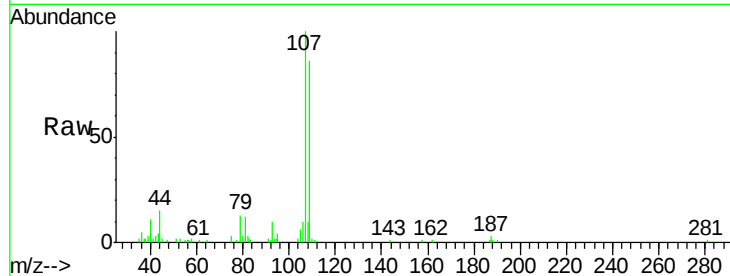
#61
 1,2-Dibromoethane
 Concen: 3.078 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
107	100		
109	99.7	75.3	112.9

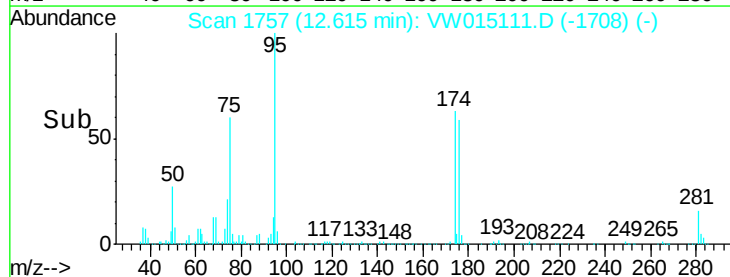
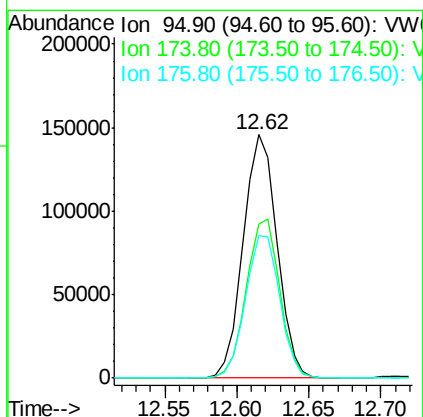
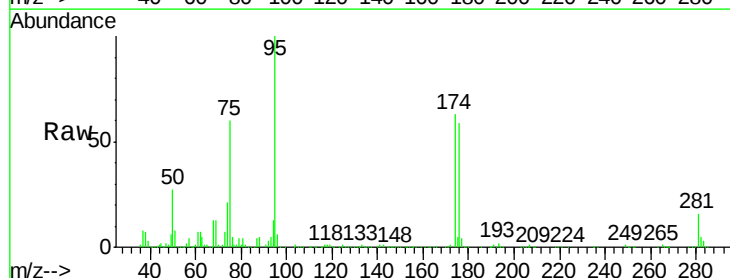
Manual Integrations
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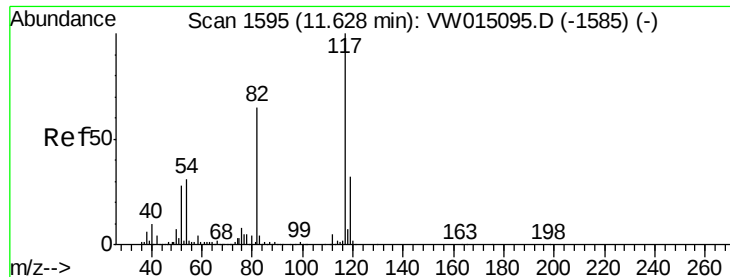
MMDadoda
 3/11/2020 3:22:12 PM



#62
 4-Bromofluorobenzene
 Concen: 49.753 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.6	0.0	126.8
176	59.3	0.0	121.6





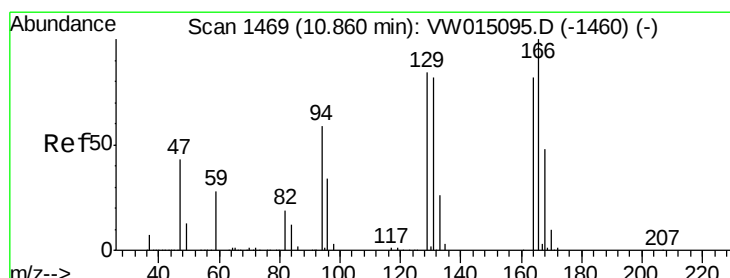
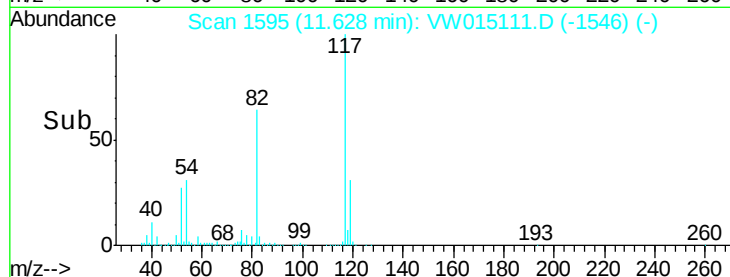
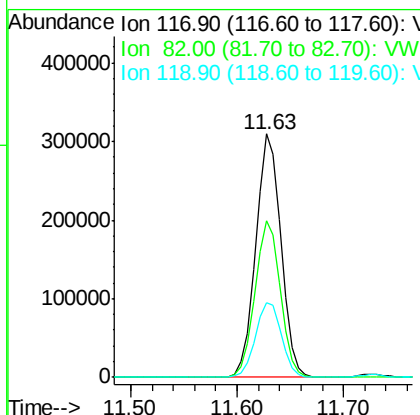
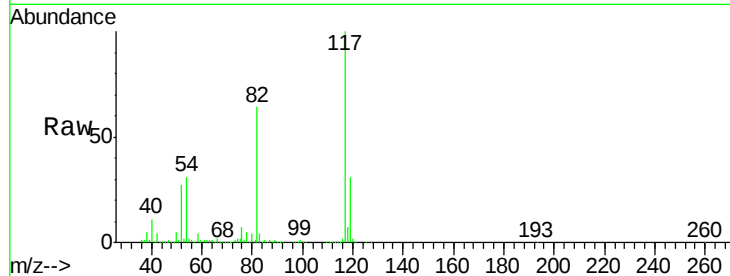
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.1	52.2	78.2
119	30.8	25.4	38.0

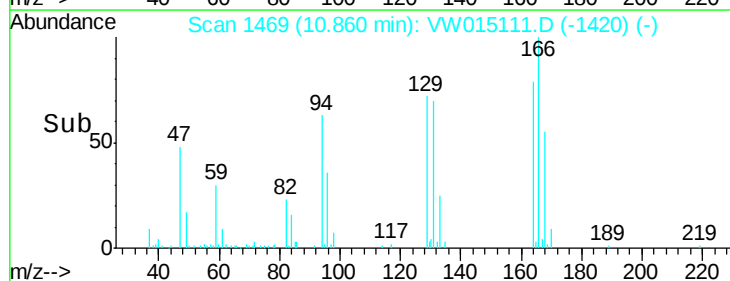
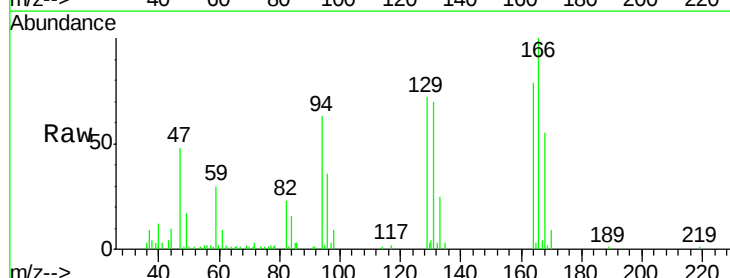
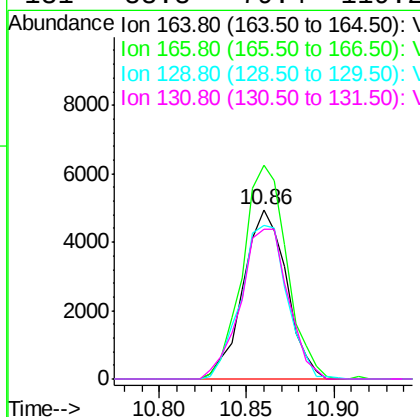
Manual Integrations
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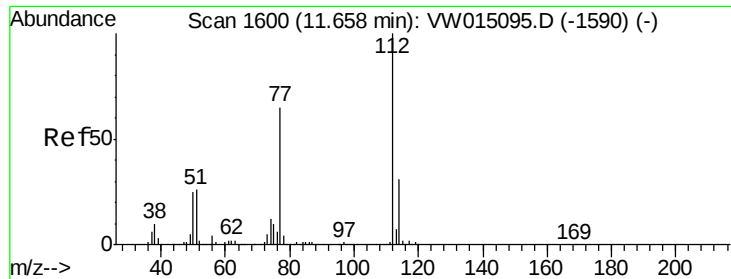
MMDadoda
3/11/2020 3:22:12 PM



#64
Tetrachloroethene
Concen: 2.878 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.2	97.0	145.6
129	91.0	81.2	121.8
131	88.8	79.4	119.2





#65

Chlorobenzene

Concen: 2.880 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:112 Resp: 29761

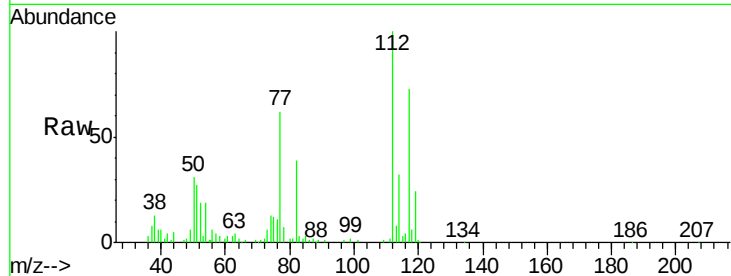
Ion Ratio Lower Upper

112 100

114 31.5 25.0 37.6

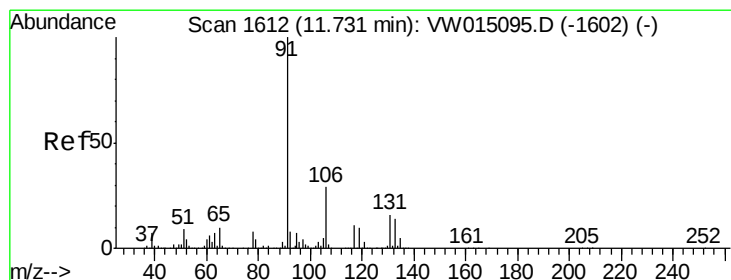
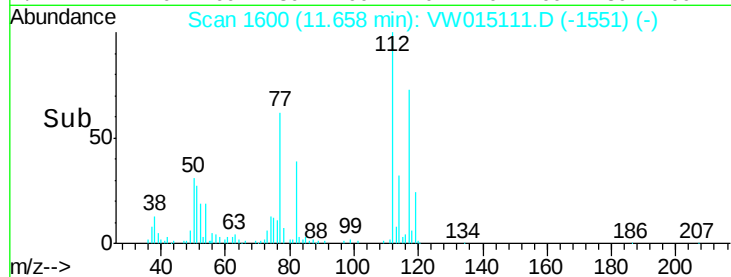
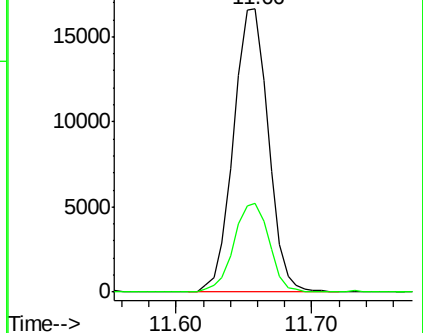
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.824 ug/l

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

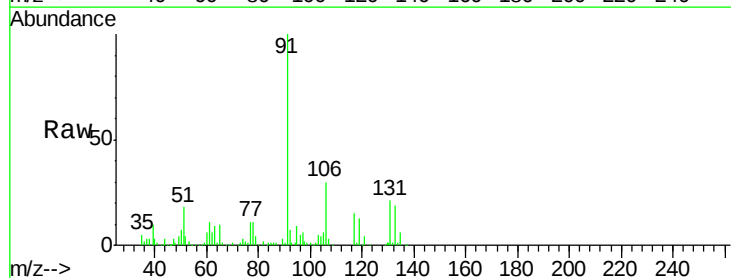
Tgt Ion:131 Resp: 9720

Ion Ratio Lower Upper

131 100

133 94.6 47.3 141.8

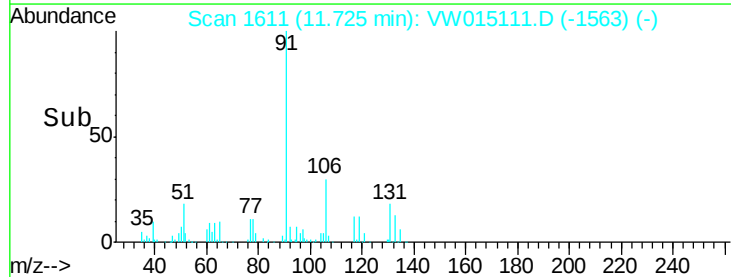
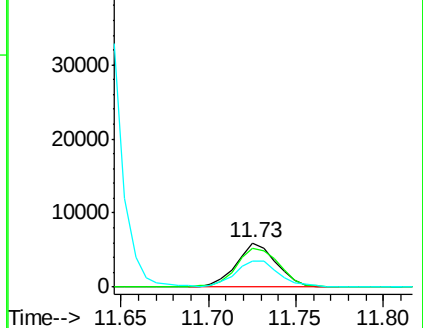
119 62.4 34.0 101.8

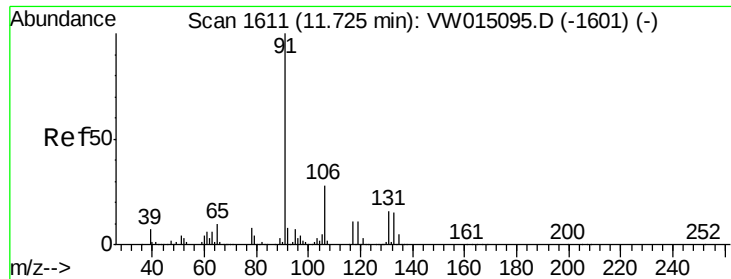


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





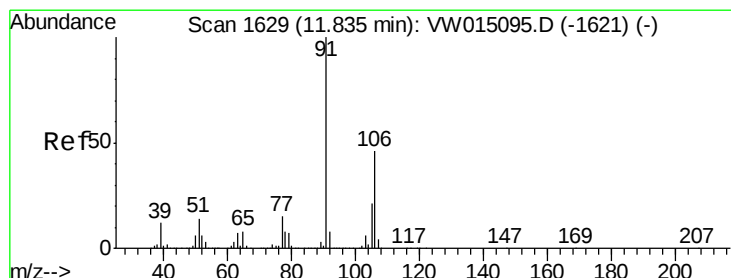
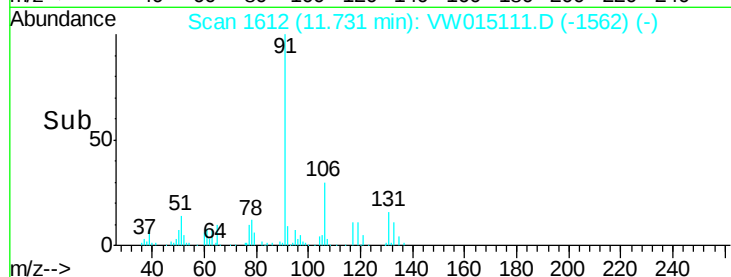
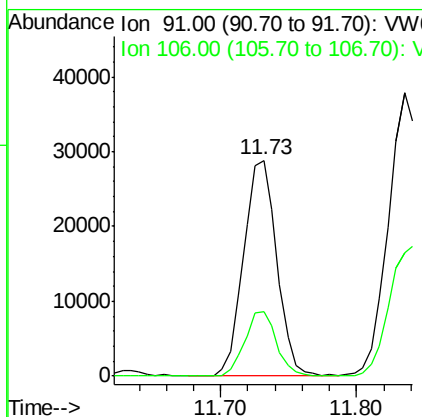
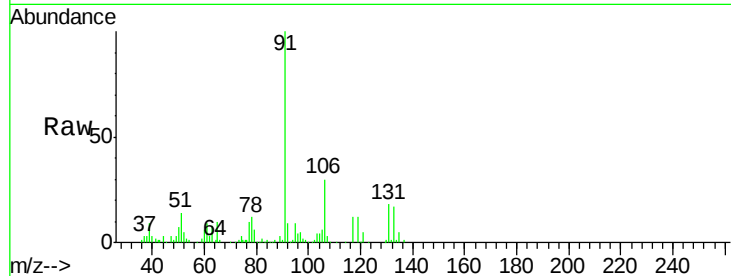
#67
Ethyl Benzene
Concen: 2.458 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 91 Resp: 49433
Ion Ratio Lower Upper
91 100
106 29.9 22.8 34.2

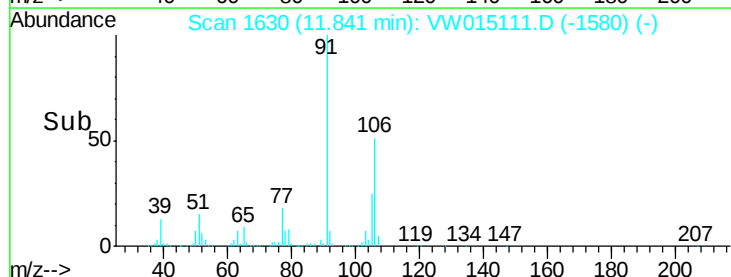
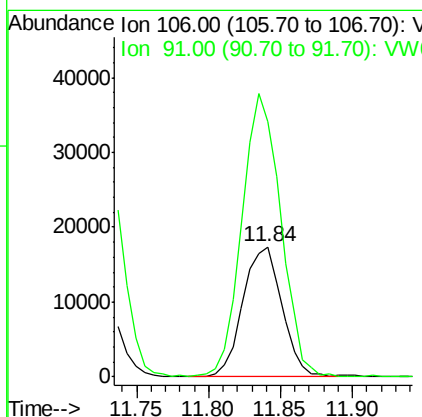
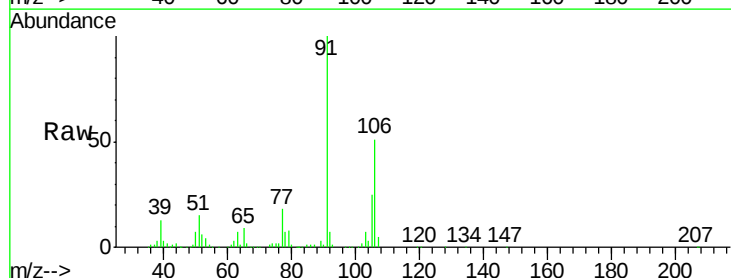
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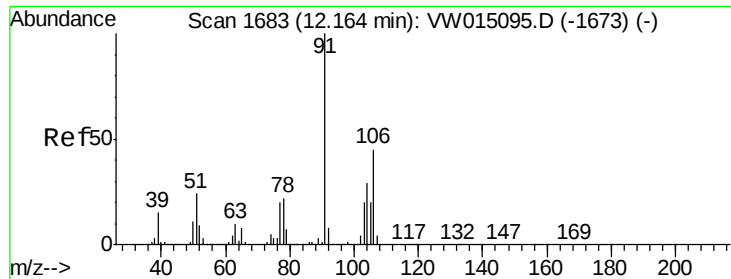
MMDadoda
3/11/2020 3:22:12 PM



#68
m/p-Xylenes
Concen: 4.533 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion: 106 Resp: 32226
Ion Ratio Lower Upper
106 100
91 217.6 172.3 258.5





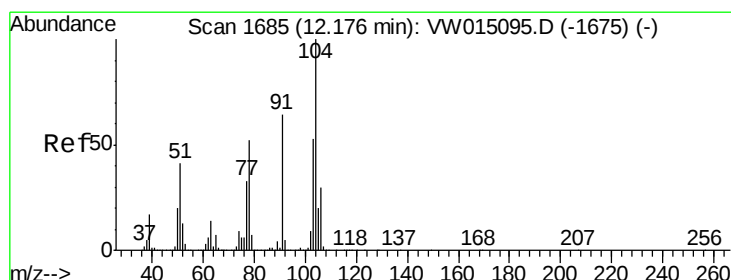
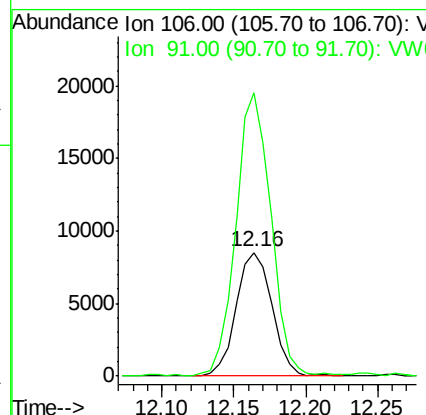
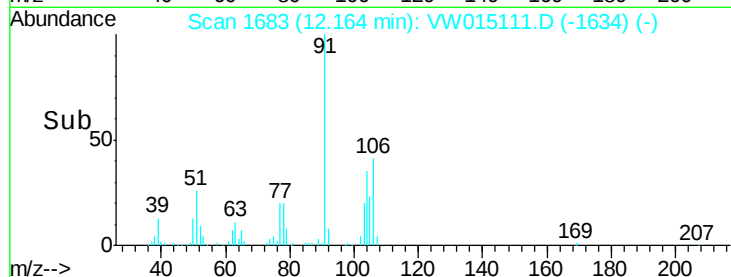
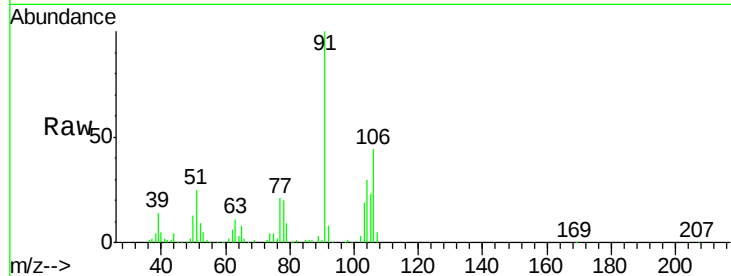
#69
o-Xylene
Concen: 2.317 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion:106 Resp: 14836
Ion Ratio Lower Upper
106 100
91 222.4 112.6 337.8

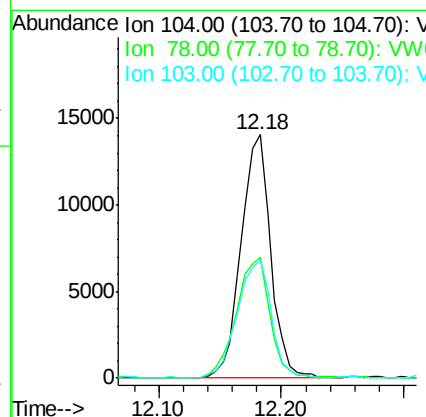
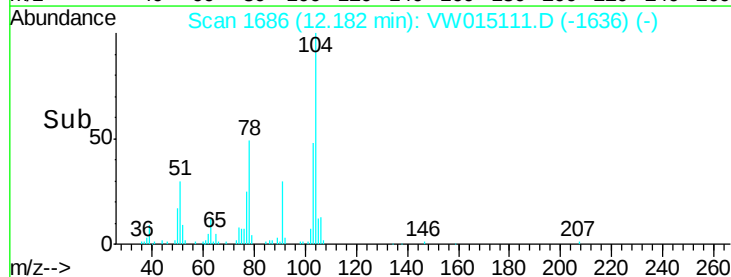
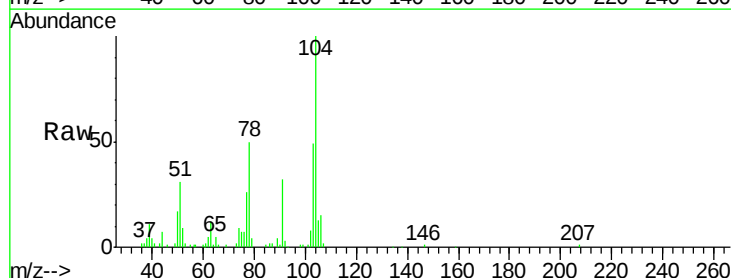
Manual Integrations
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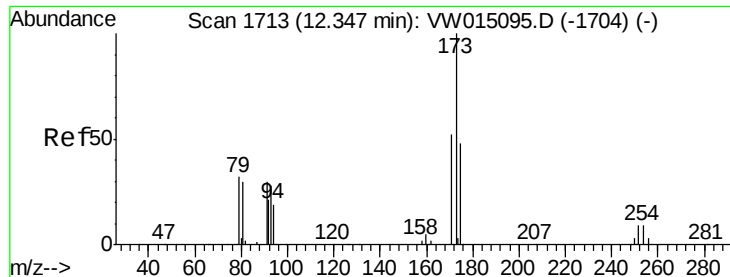
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#70
Styrene
Concen: 2.146 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion:104 Resp: 23548
Ion Ratio Lower Upper
104 100
78 56.2 44.7 67.1
103 56.0 44.7 67.1





#71

Bromoform

Concen: 2.876 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

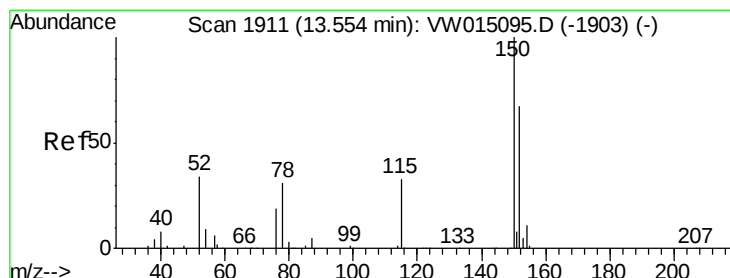
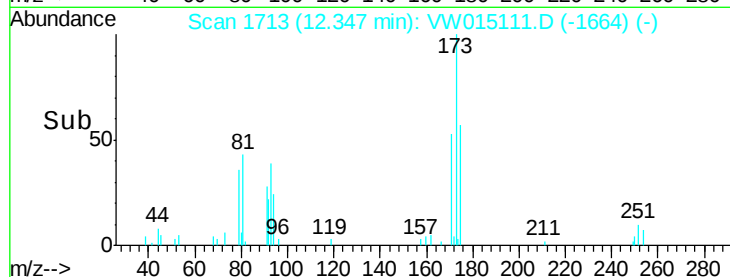
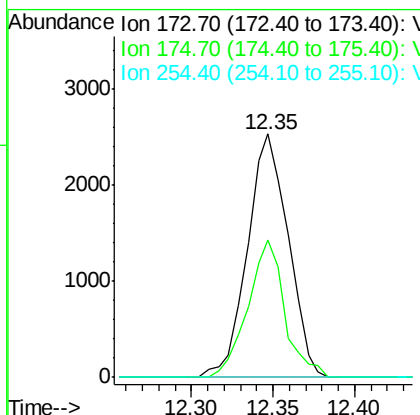
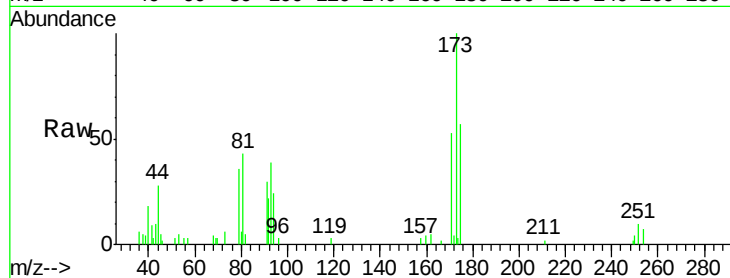
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.2	23.8	71.4
254	0.0	0.1	0.1

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

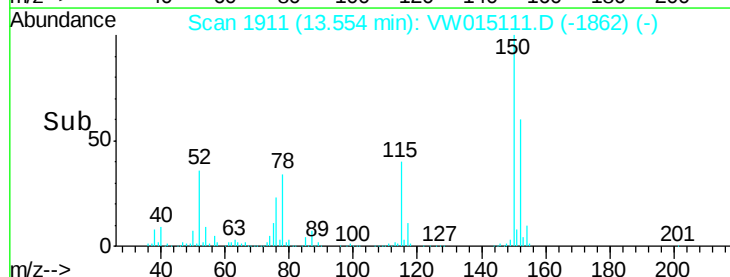
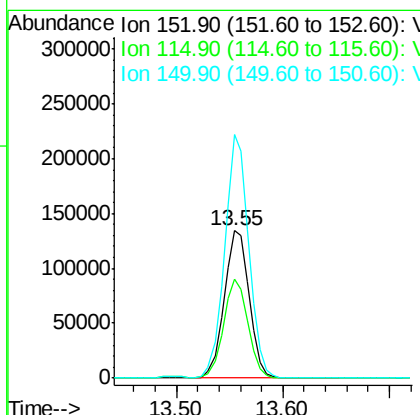
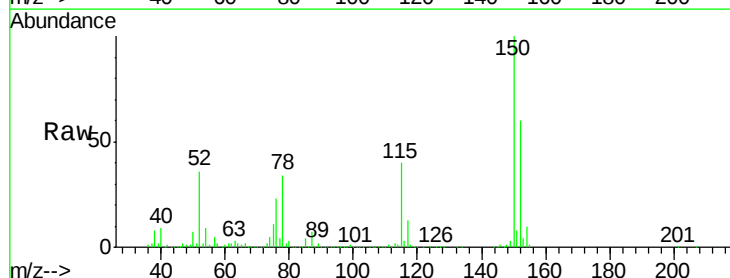
RT: 13.55 min Scan# 1911

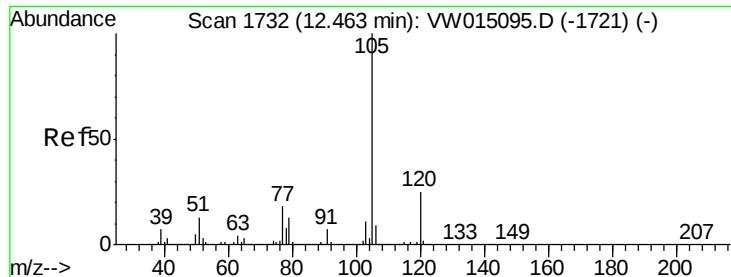
Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.6	33.3	99.9
150	159.3	0.0	351.2





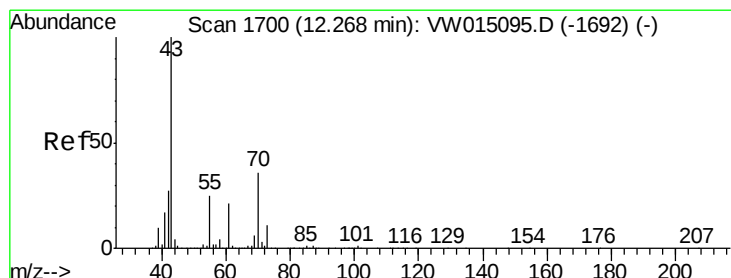
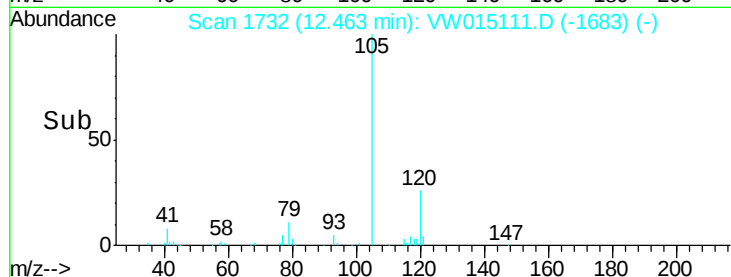
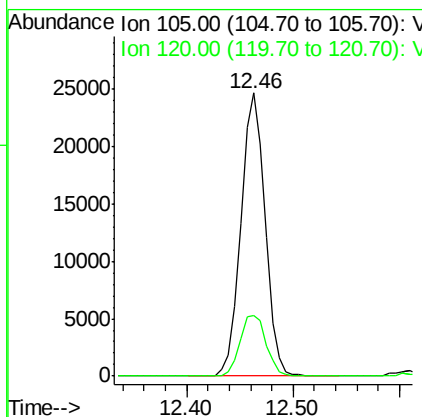
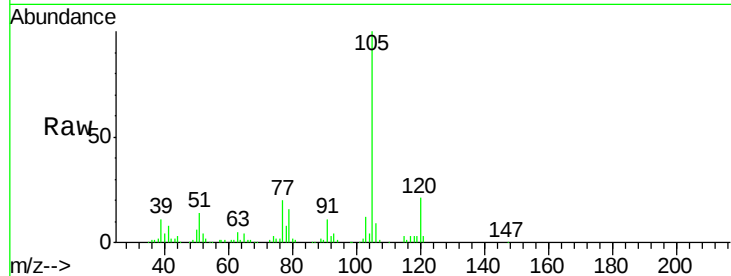
#73
Isopropylbenzene
Concen: 2.352 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	23.3	12.6	37.8

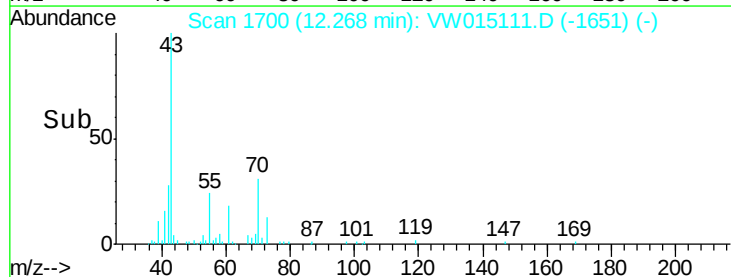
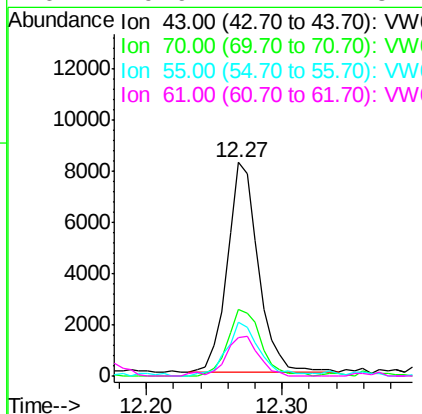
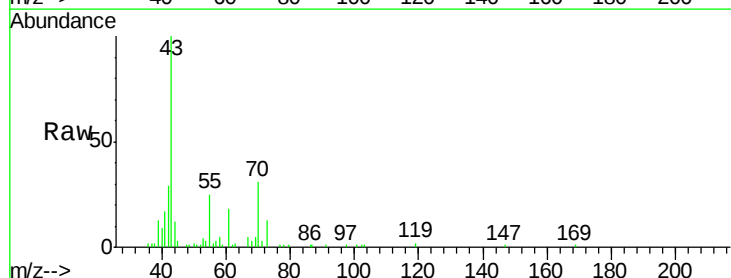
Manual Integrations
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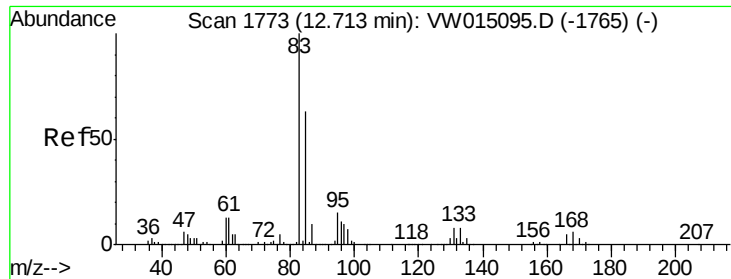
MMDadoda
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#74
N-ethyl acetate
Concen: 2.651 ug/l
RT: 12.27 min Scan# 1700
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
43	100		
70	33.4	29.4	44.2
55	26.6	20.3	30.5
61	19.9	17.1	25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 3.553 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

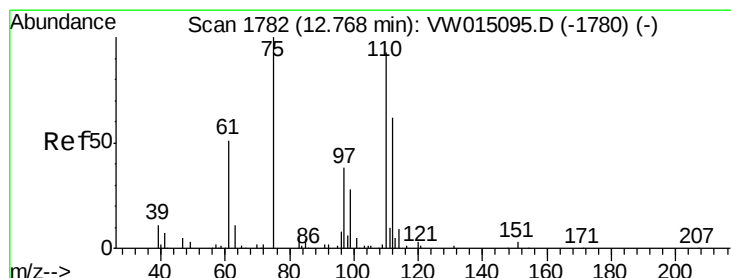
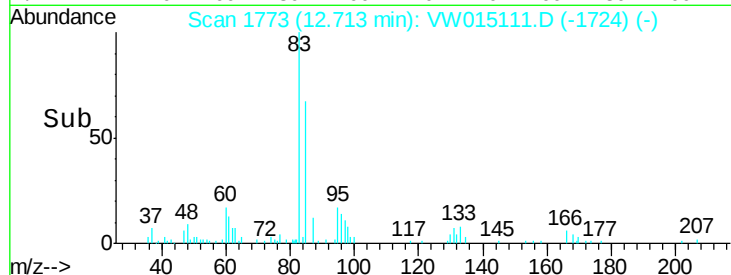
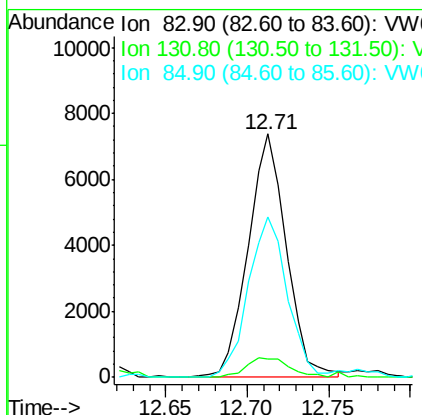
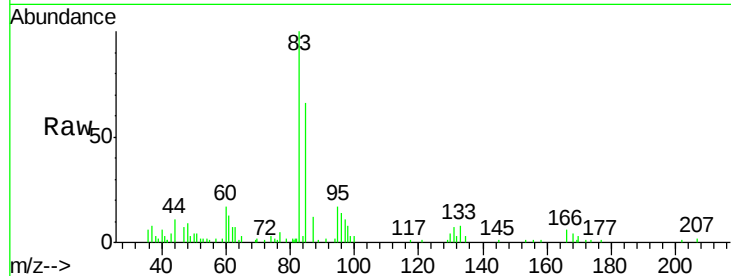
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	83	Resp:	12072
Ion Ratio	Lower	Upper	
83	100		
131	9.2	4.3	13.1
85	67.2	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 4.098 ug/l m

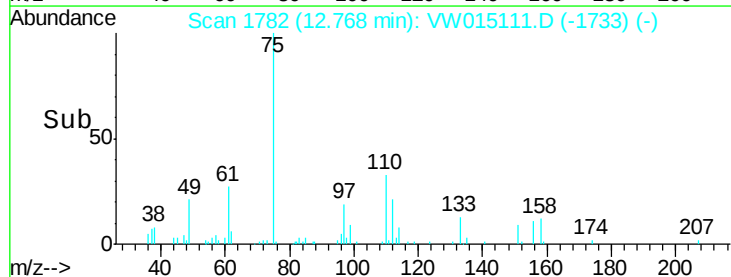
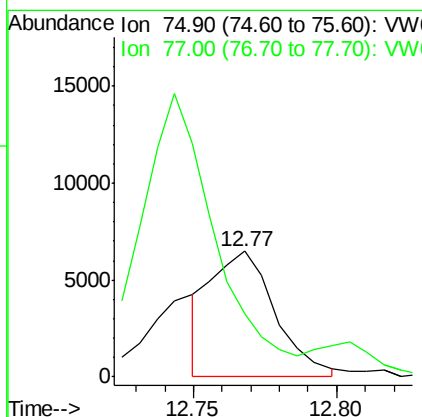
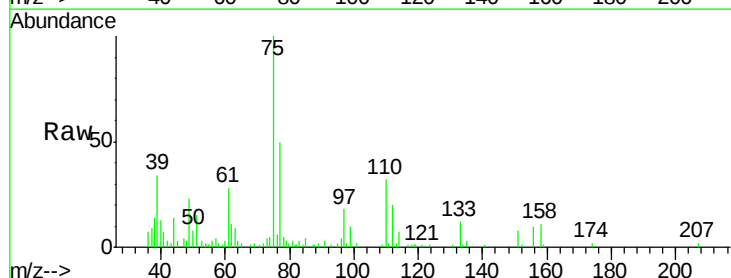
RT: 12.77 min Scan# 1782

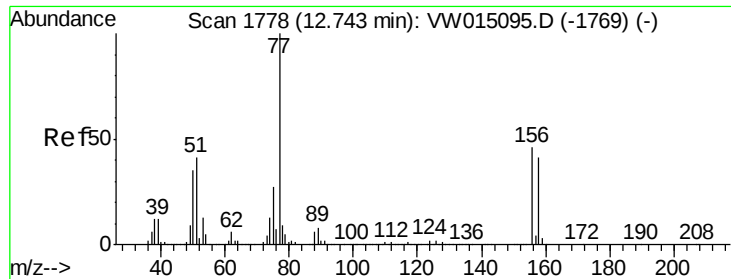
Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion:	75	Resp:	10144
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.954 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

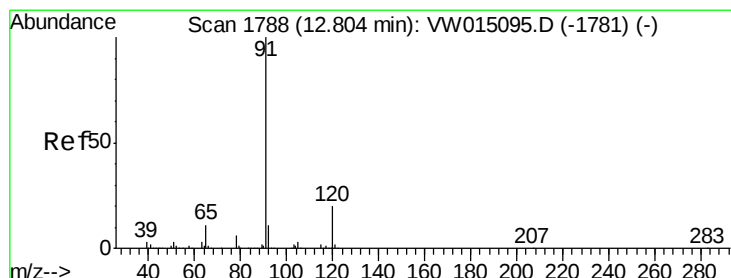
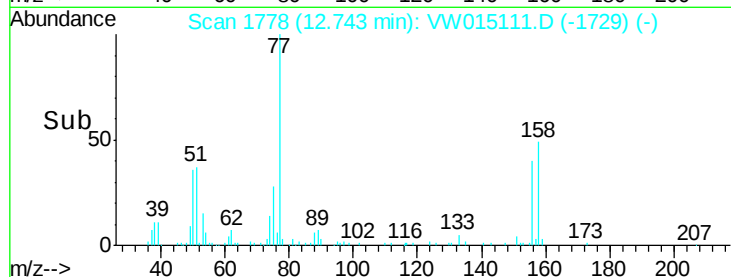
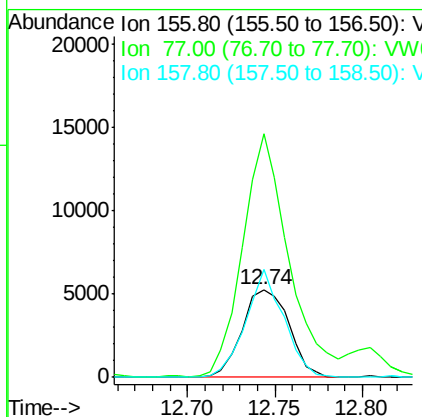
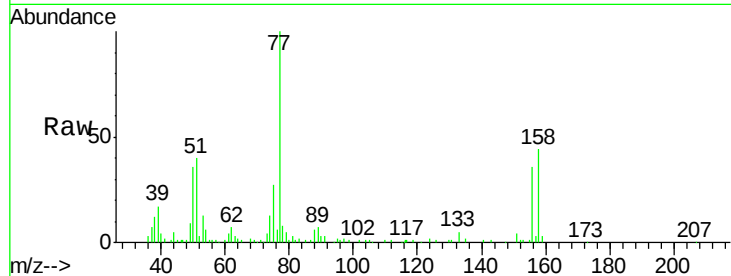
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
156	100		
77	275.8	126.6	379.8
158	99.4	47.4	142.2

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#78

n-propylbenzene

Concen: 2.609 ug/l

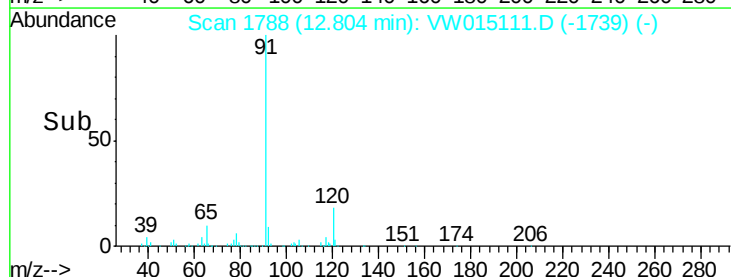
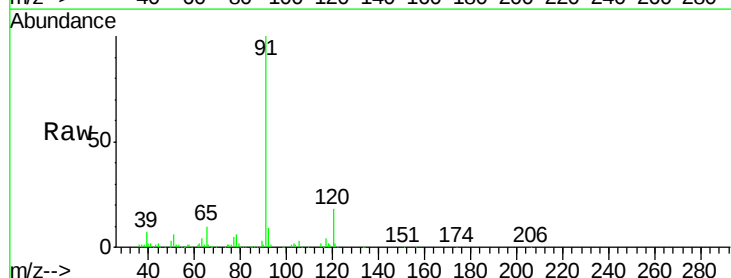
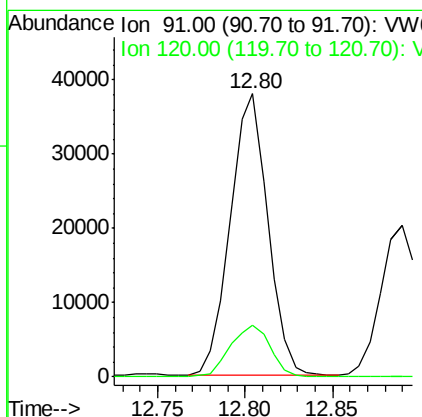
RT: 12.80 min Scan# 1788

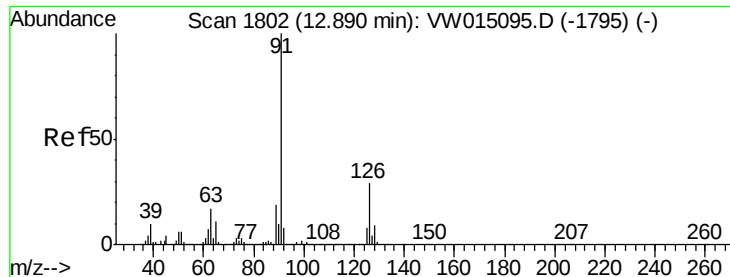
Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
91	100		
120	19.6	10.2	30.4





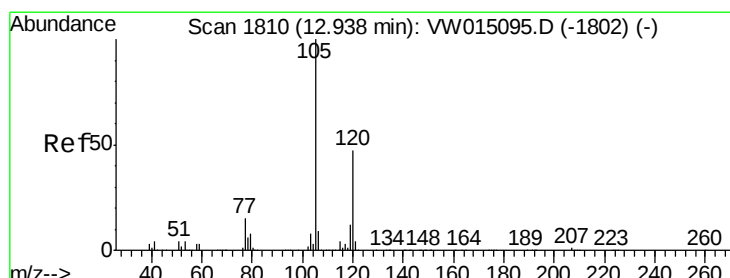
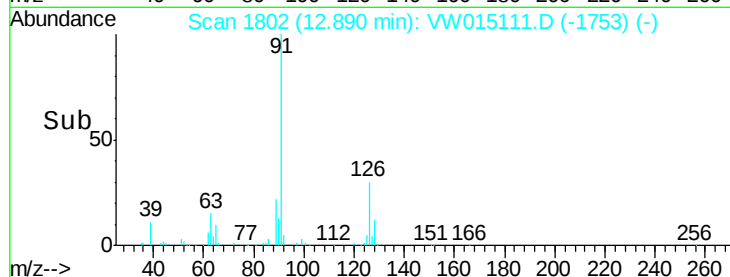
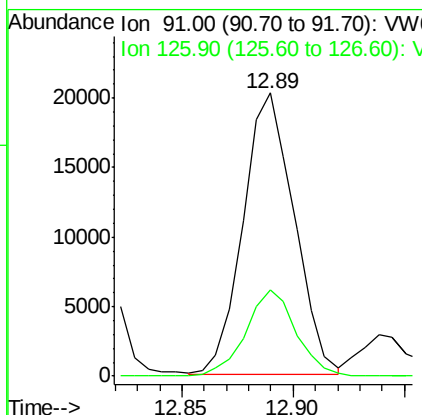
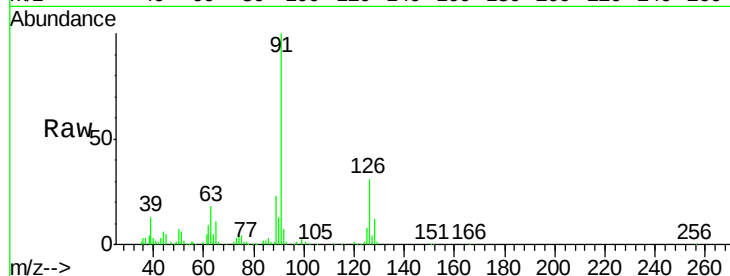
#79
 2-Chlorotoluene
 Concen: 2.633 ug/l
 RT: 12.89 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
91	100		
126	30.1	14.5	43.6

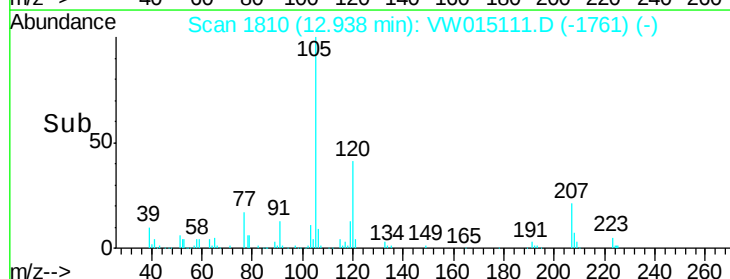
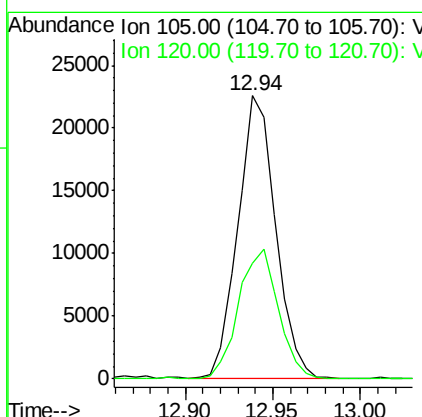
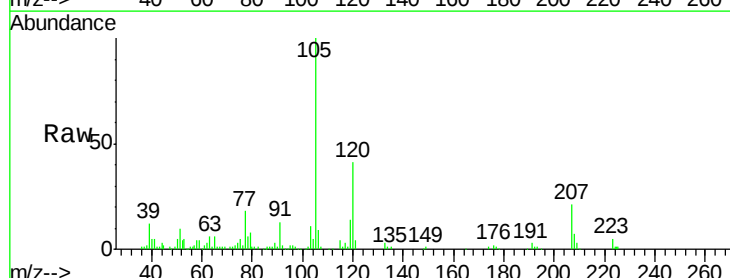
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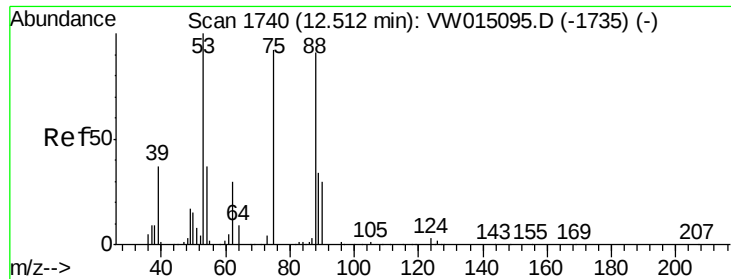
MMDadoda
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#80
 1,3,5-Trimethylbenzene
 Concen: 2.363 ug/l
 RT: 12.94 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.3	69.8





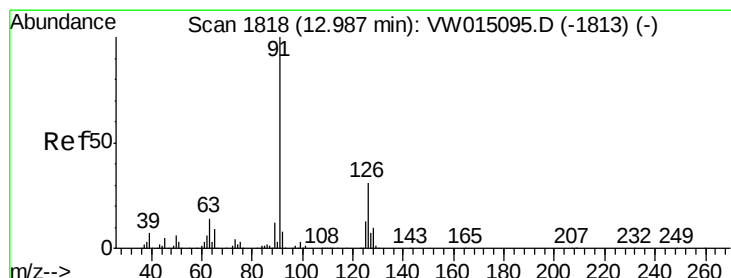
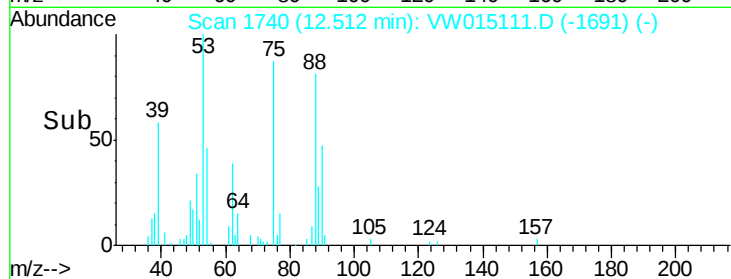
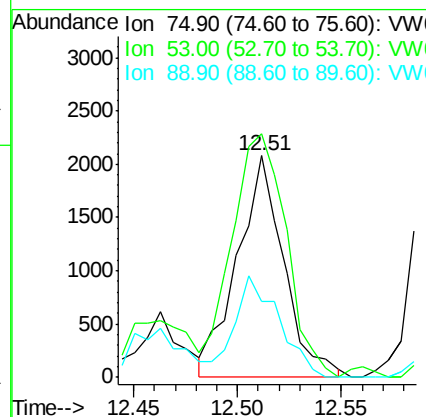
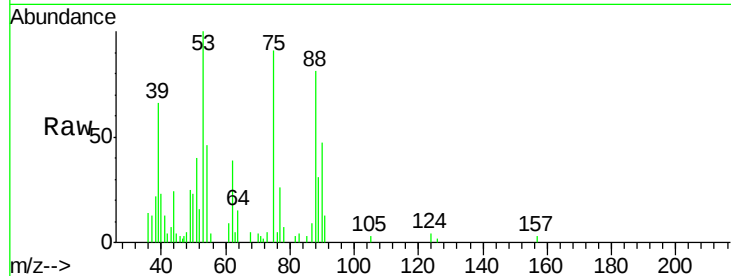
#81
trans-1,4-Dichloro-2-butene
Concen: 2.950 ug/l m
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
75	100		
53	19.4	88.4	132.6#
89	15.1	33.1	49.7#

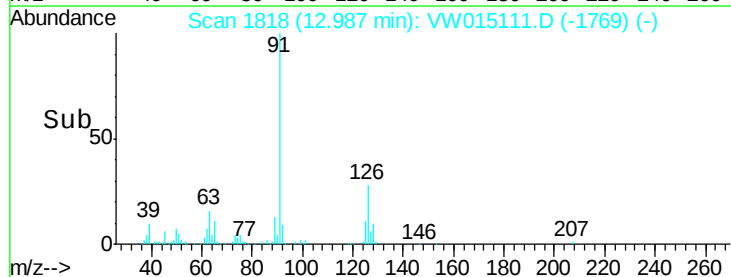
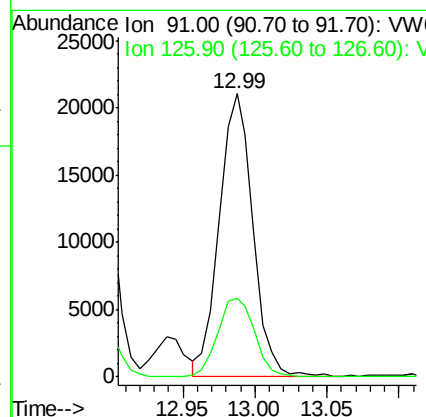
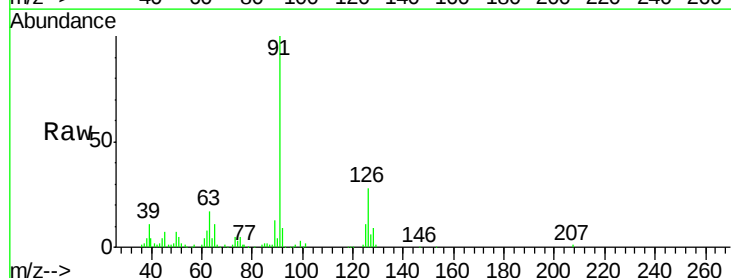
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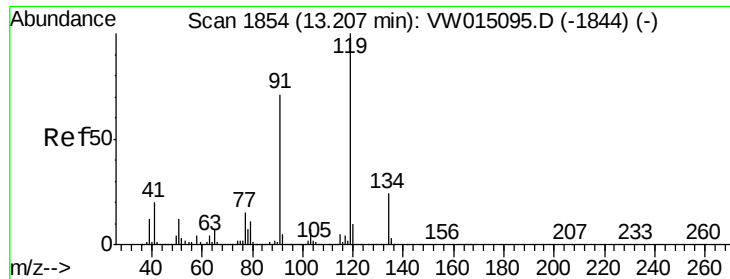
MMDadoda
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#82
4-Chlorotoluene
Concen: 2.610 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.0	14.8	44.4





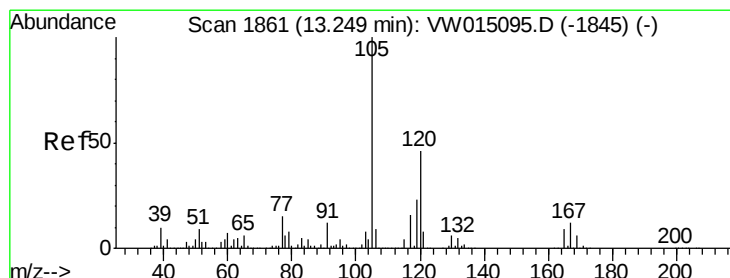
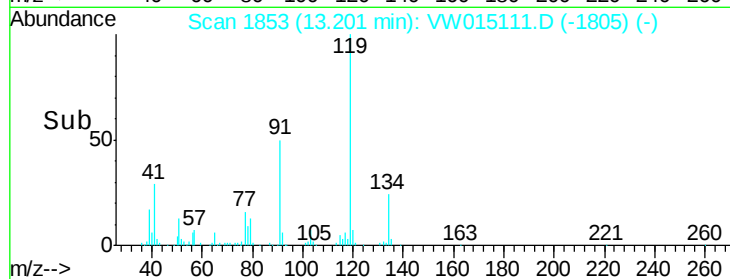
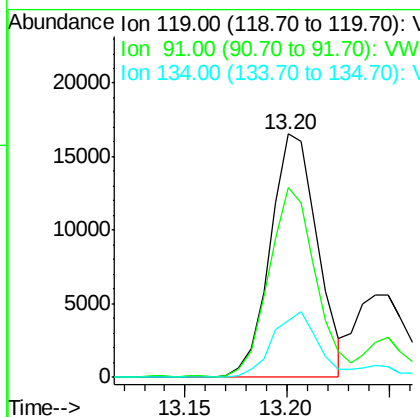
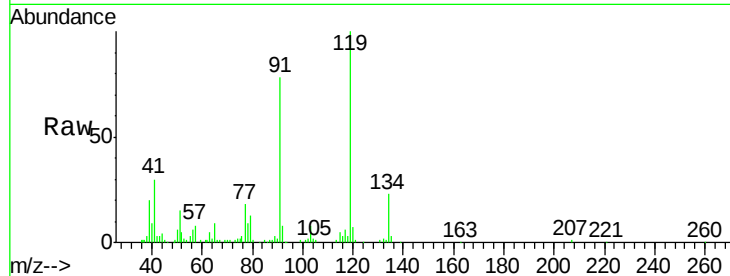
#83
 tert-Butylbenzene
 Concen: 2.283 ug/l
 RT: 13.20 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	78.2	35.7	107.1
134	26.5	12.7	38.1

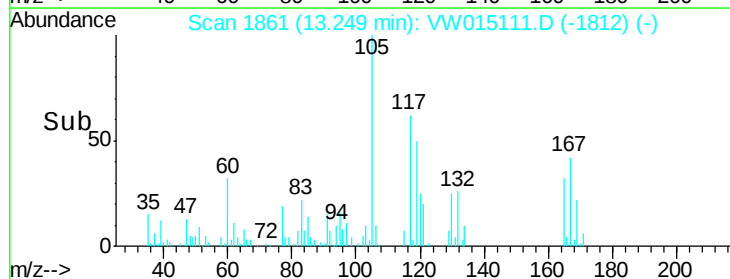
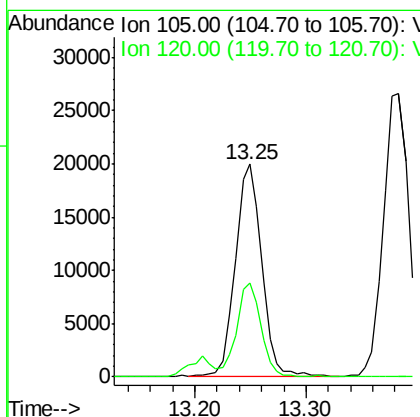
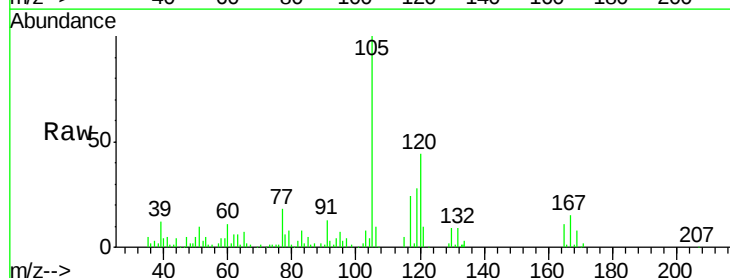
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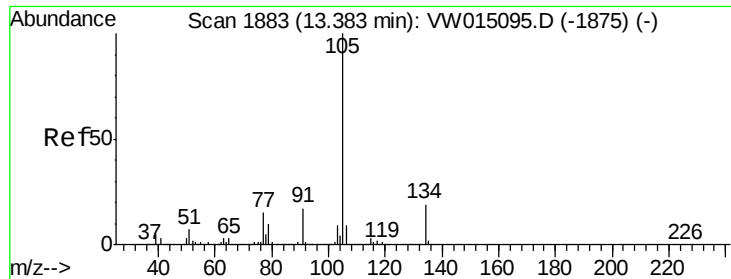
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#84
 1,2,4-Trimethylbenzene
 Concen: 2.261 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.1	22.1	66.3





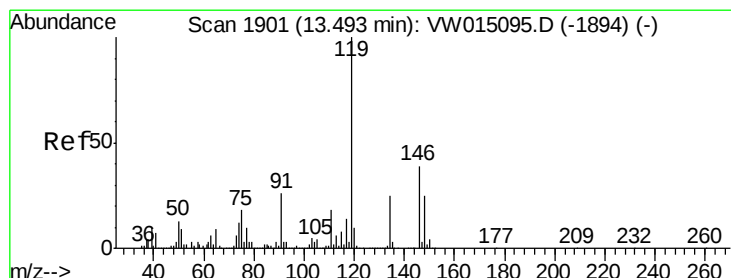
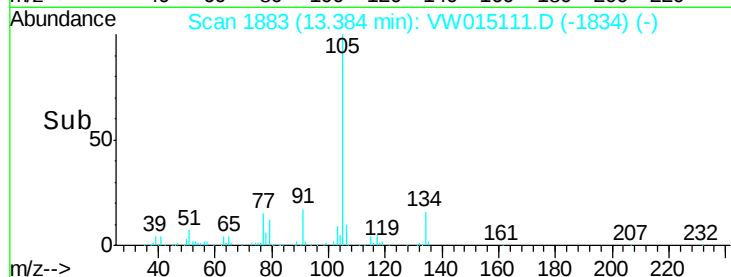
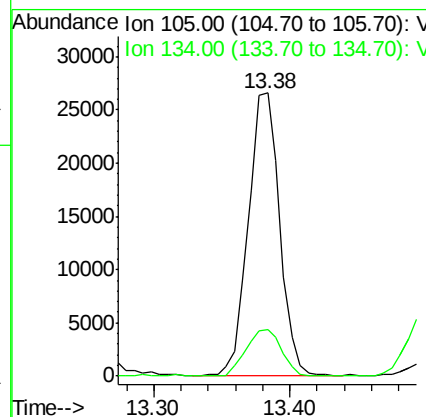
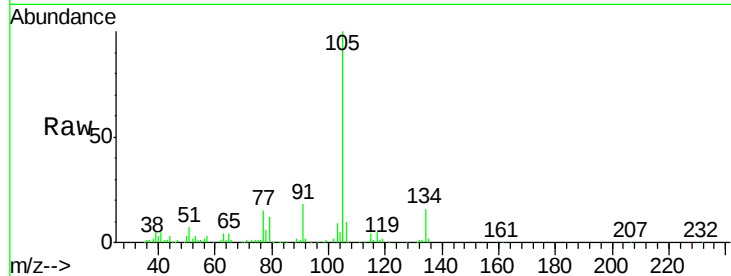
#85
 sec-Butylbenzene
 Concen: 2.422 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.0	27.1

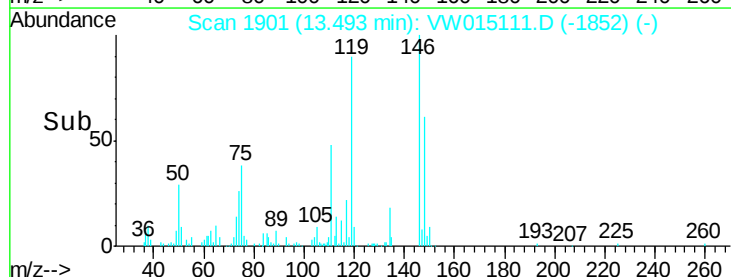
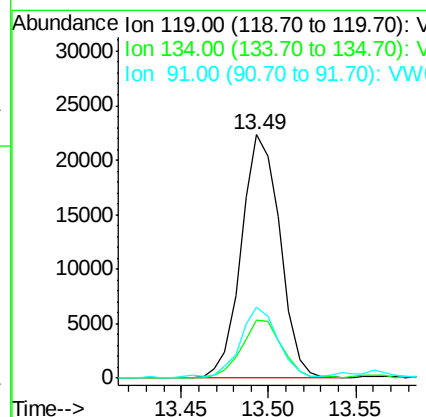
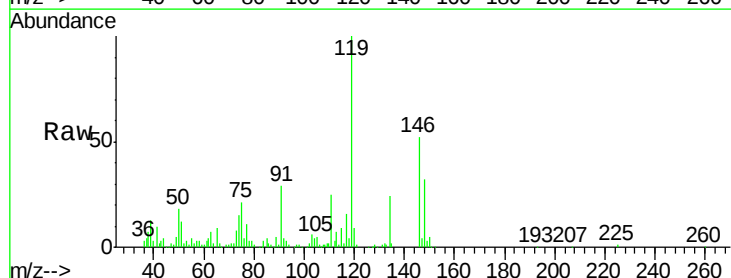
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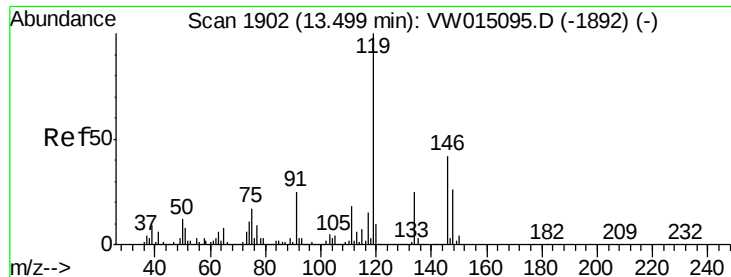
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#86
 p-Isopropyltoluene
 Concen: 2.262 ug/l
 RT: 13.49 min Scan# 1901
 Delta R.T. 0.00 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.7	12.6	37.8
91	29.1	12.9	38.6





#87

1,3-Dichlorobenzene

Concen: 2.902 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

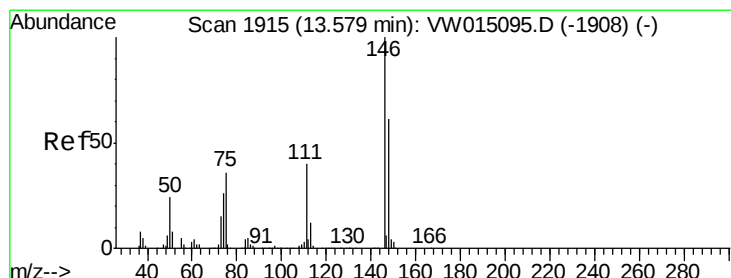
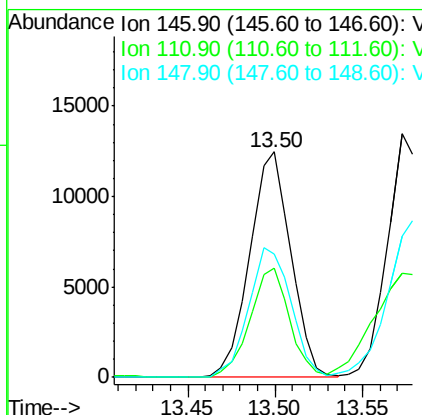
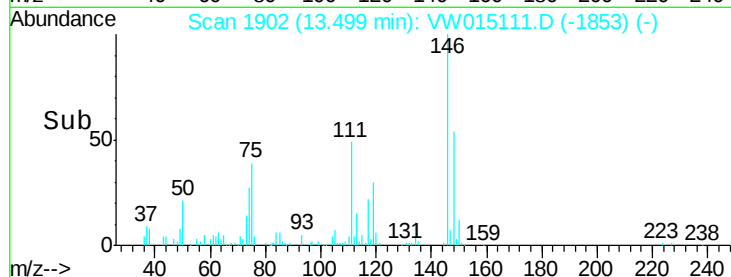
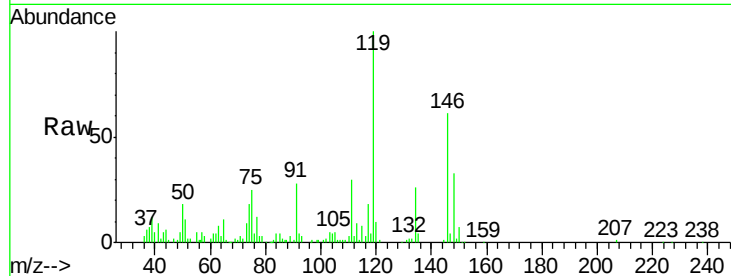
Instrument :
MSVOA_W

ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.8	22.5	67.5
148	59.2	31.9	95.9

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 3.083 ug/l

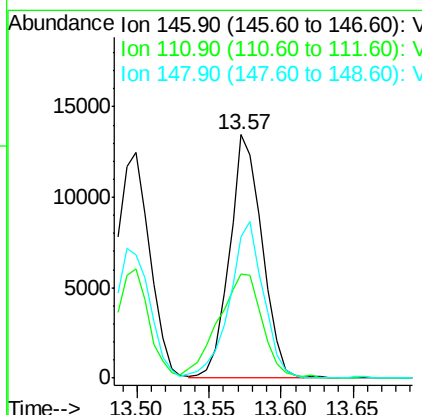
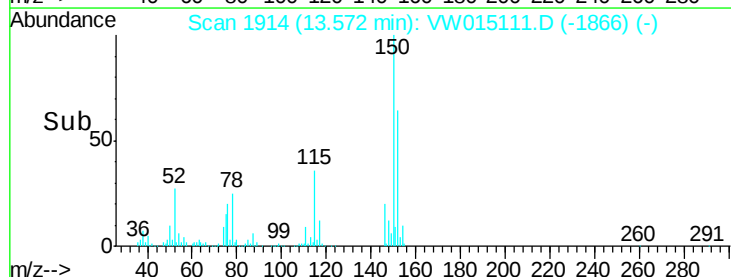
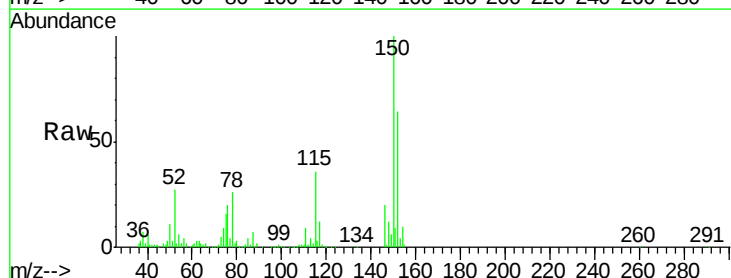
RT: 13.57 min Scan# 1914

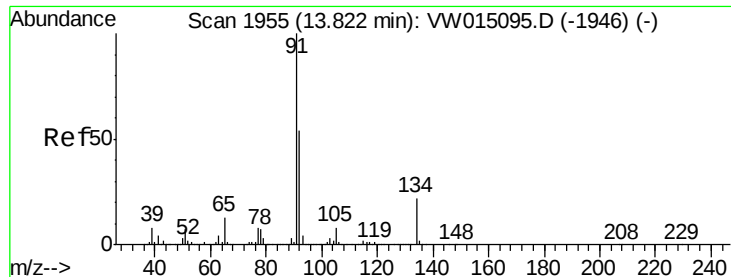
Delta R.T. -0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	58.1	21.3	63.9
148	66.6	31.6	94.8





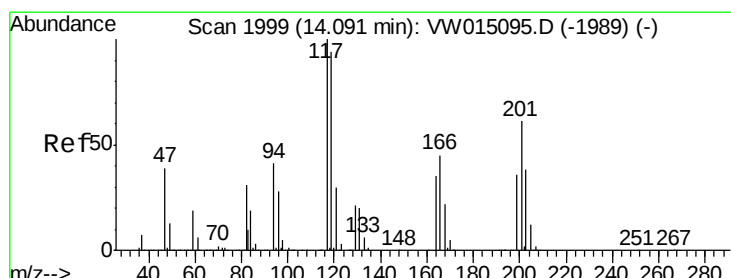
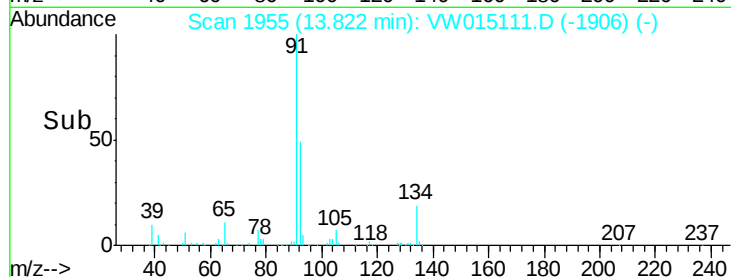
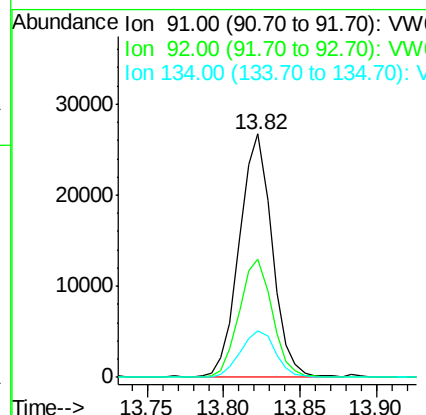
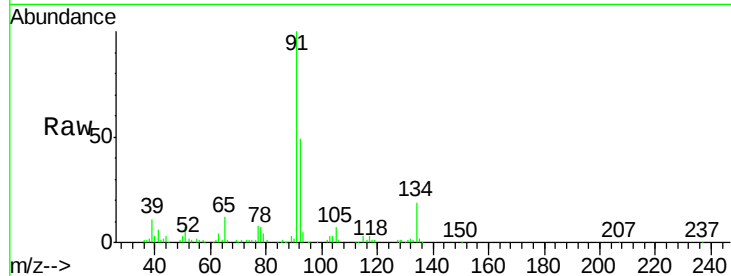
#89
n-Butylbenzene
Concen: 2.419 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	49.3	26.8	80.3
134	20.5	10.8	32.4

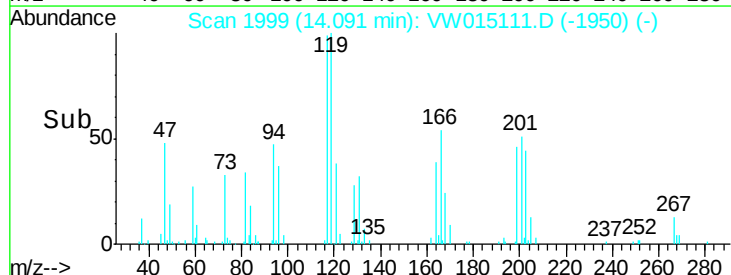
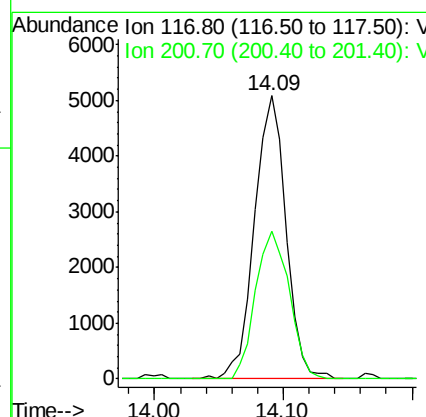
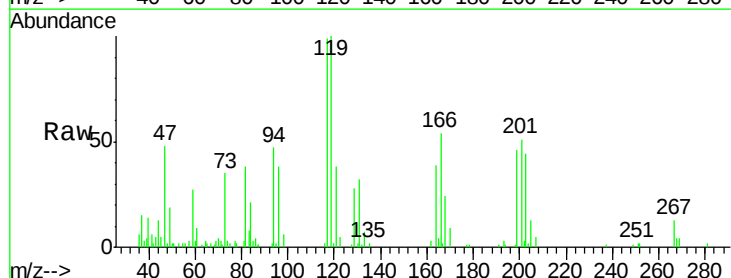
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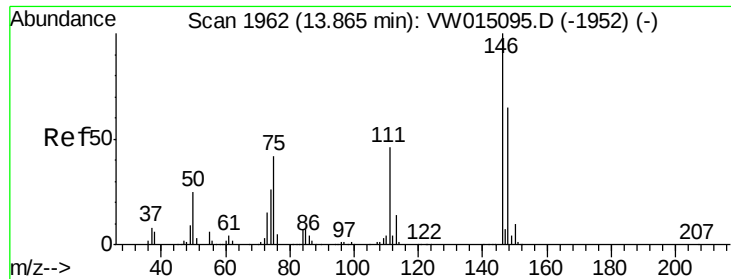
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#90
Hexachloroethane
Concen: 2.818 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW015111.D
Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
117	100		
201	56.0	30.3	90.9





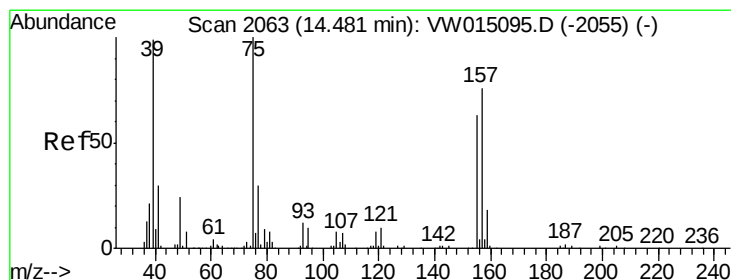
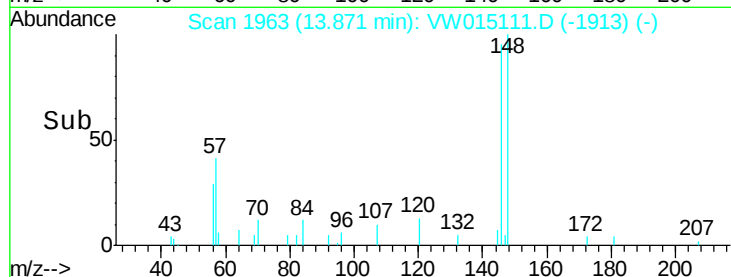
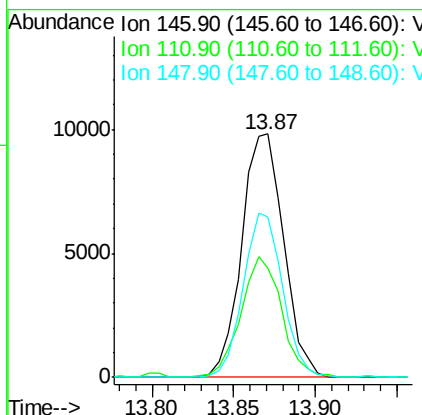
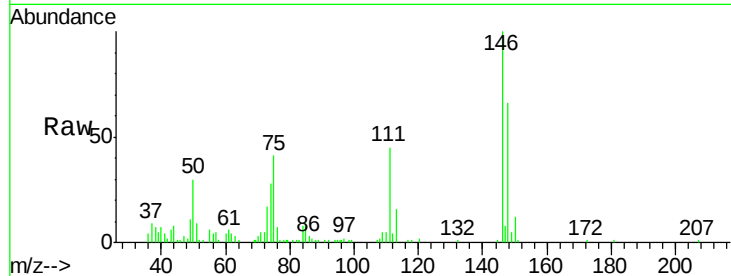
#91
 1,2-Dichlorobenzene
 Concen: 2.862 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.01 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Instrument :
 MSVOA_W
 ClientSampleID :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.1	23.1	69.2
148	63.3	32.3	96.9

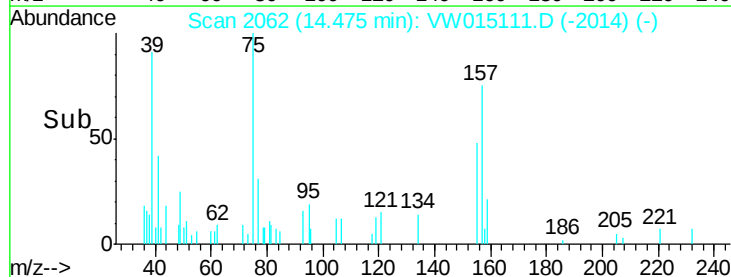
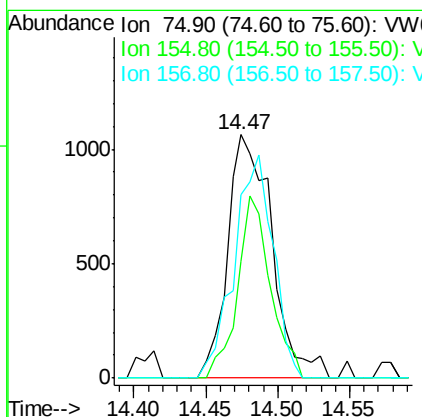
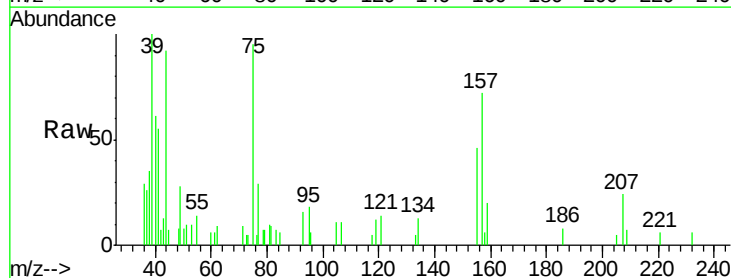
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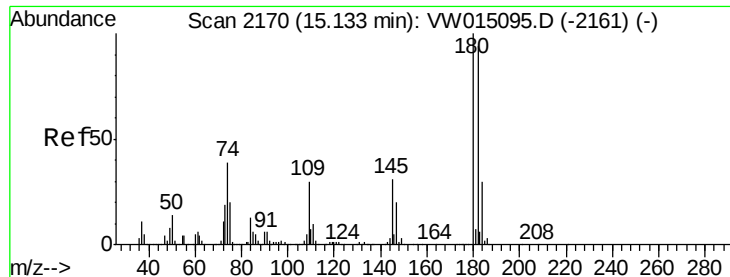
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.174 ug/l
 RT: 14.47 min Scan# 2062
 Delta R.T. -0.01 min
 Lab File: VW015111.D
 Acq: 10 Mar 2020 14:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	55.3	32.1	96.3
157	80.1	39.6	118.7





#93

1,2,4-Trichlorobenzene

Concen: 2.426 ug/l

RT: 15.13 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

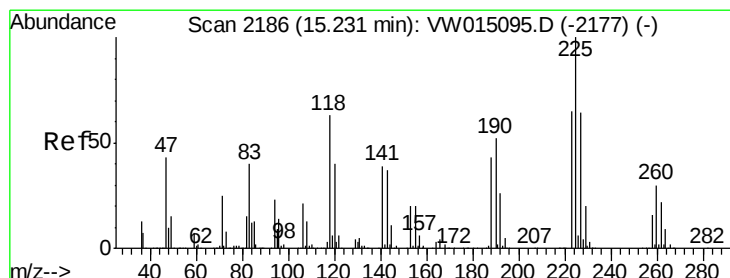
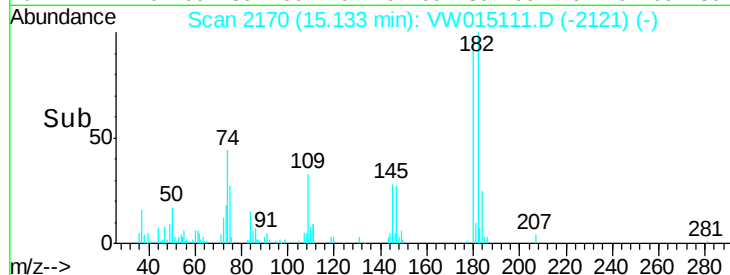
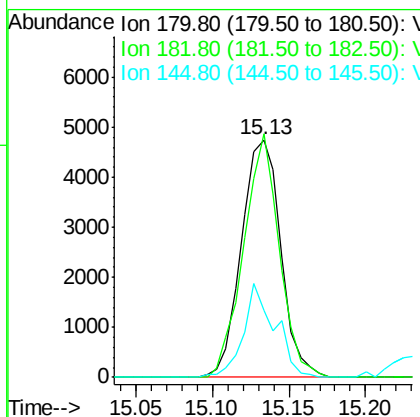
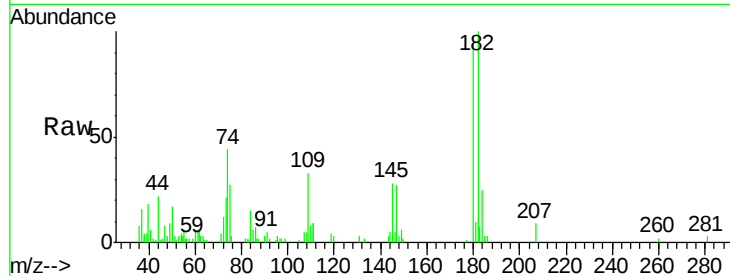
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	180	Resp:	8518
Ion Ratio	Lower	Upper	
180	100		
182	92.6	47.6	142.9
145	31.7	16.2	48.5

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:22:12 PM



#94

Hexachlorobutadiene

Concen: 2.814 ug/l

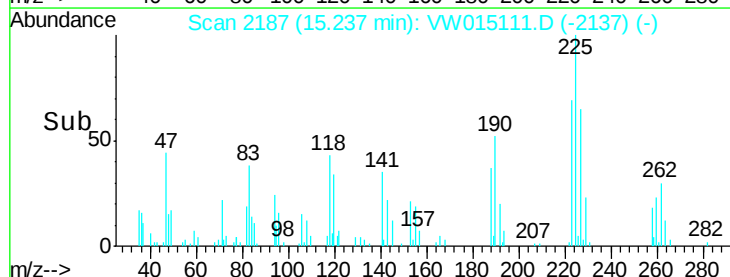
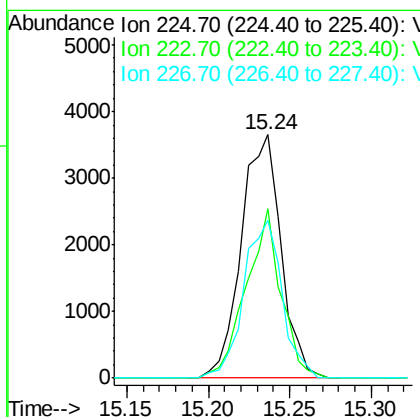
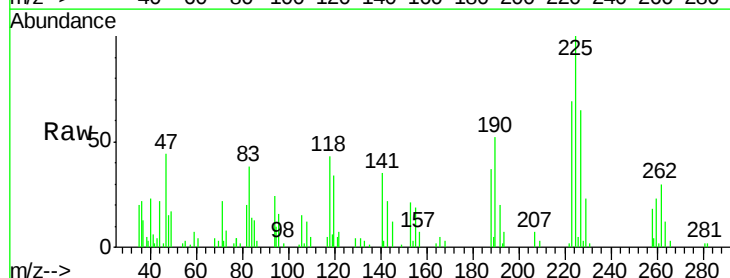
RT: 15.24 min Scan# 2187

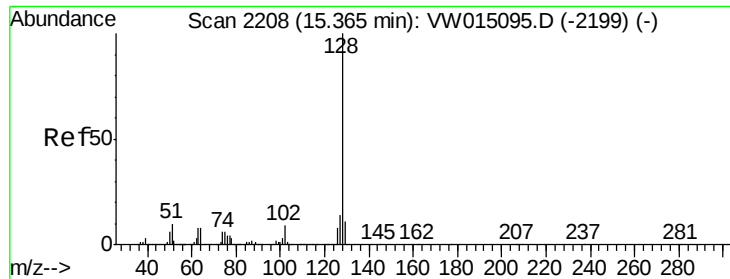
Delta R.T. 0.01 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion:	225	Resp:	6205
Ion Ratio	Lower	Upper	
225	100		
223	61.0	32.5	97.4
227	62.5	33.0	99.0





#95

Naphthalene

Concen: 2.044 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Instrument :

MSVOA_W

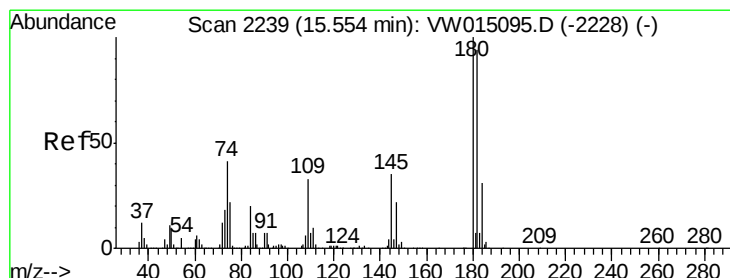
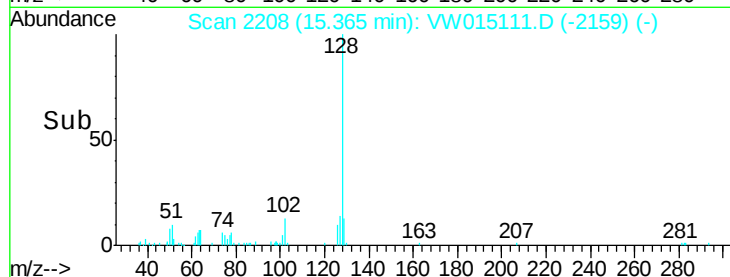
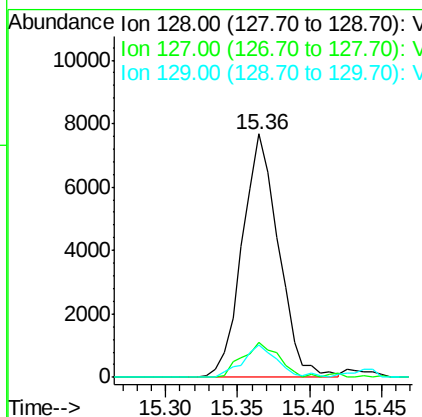
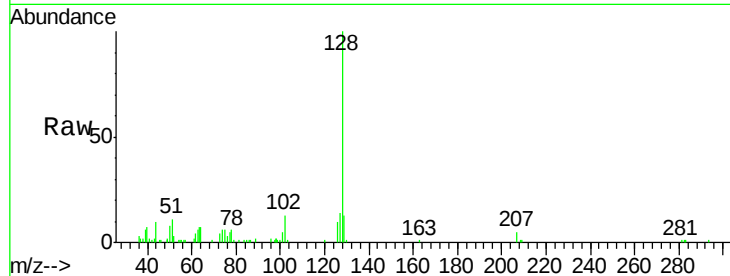
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	128	Resp:	13401
Ion Ratio	Lower	Upper	
128	100		
127	14.5	10.7	16.1
129	12.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:22:12 PM



#96

1,2,3-Trichlorobenzene

Concen: 2.520 ug/l

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW015111.D

Acq: 10 Mar 2020 14:09

Tgt Ion:	180	Resp:	7848
Ion Ratio	Lower	Upper	
180	100		
182	98.5	47.9	143.7
145	37.8	17.5	52.6

