

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031020\
 Data File : VW015112.D
 Acq On : 10 Mar 2020 14:35
 Operator : SY/VA
 Sample : L1161-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:22:14 PM

Quant Time: Mar 11 09:24:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030920S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 09 18:51:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	325052	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	625245	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	568323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	242399	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	279630	58.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.02%	
35) Dibromofluoromethane	7.88	113	195801	52.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.62%	
50) Toluene-d8	10.32	98	817891	52.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.36%	
62) 4-Bromofluorobenzene	12.62	95	265482	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	8379	4.251	ug/l	88
3) Chloromethane	2.21	50	21867	5.170	ug/l	96
4) Vinyl Chloride	2.36	62	25514	4.608	ug/l	97
5) Bromomethane	2.78	94	14072	4.446	ug/l	96
6) Chloroethane	2.93	64	13867	4.324	ug/l	96
7) Trichlorofluoromethane	3.26	101	12238	4.416	ug/l	98
8) Diethyl Ether	3.68	74	9928	4.702	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	4.07	101	20583	4.873	ug/l	97
10) Methyl Iodide	4.27	142	20693	4.403	ug/l	97
11) Tert butyl alcohol	5.16	59	14208	51.725	ug/l #	89
12) 1,1-Dichloroethene	4.04	96	17896	4.333	ug/l	97
13) Acrolein	3.89	56	10473	26.070	ug/l	93
14) Allyl chloride	4.67	41	36293	4.385	ug/l	99
15) Acrylonitrile	5.37	53	28369	26.212	ug/l	97
16) Acetone	4.12	43	34400	31.559	ug/l	100
17) Carbon Disulfide	4.38	76	64572	4.410	ug/l	99
18) Methyl Acetate	4.68	43	14672	5.678	ug/l	94
19) Methyl tert-butyl Ether	5.42	73	25175	4.762	ug/l	99
20) Methylene Chloride	4.92	84	34330	6.803	ug/l	93
21) trans-1,2-Dichloroethene	5.43	96	19802	4.516	ug/l	93
22) Diisopropyl ether	6.31	45	64885	4.086	ug/l #	85
23) Vinyl Acetate	6.26	43	190610	20.332	ug/l	97
24) 1,1-Dichloroethane	6.22	63	42298	4.567	ug/l	97
25) 2-Butanone	7.18	43	43523	29.126	ug/l	98
26) 2,2-Dichloropropane	7.16	77	31817	6.007	ug/l	92
27) cis-1,2-Dichloroethene	7.16	96	20263	4.439	ug/l	80
28) Bromochloromethane	7.51	49	21093	4.753	ug/l	100
29) Tetrahydrofuran	7.53	42	24159	25.848	ug/l	95
30) Chloroform	7.67	83	40739	4.957	ug/l	89
31) Cyclohexane	7.95	56	49571	5.204	ug/l #	73
32) 1,1,1-Trichloroethane	7.87	97	29902	4.660	ug/l	99
36) 1,1-Dichloropropene	8.08	75	30471	4.202	ug/l	95
37) Ethyl Acetate	7.25	43	20552	5.687	ug/l	99
38) Carbon Tetrachloride	8.06	117	25784	4.368	ug/l	95

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	32380	3.906	ug/l	97
40) Benzene	8.32	78	94541	4.692	ug/l	94
41) Methacrylonitrile	7.49	41	8660	4.531	ug/l #	87
42) 1,2-Dichloroethane	8.40	62	30650	4.993	ug/l	99
43) Isopropyl Acetate	8.42	43	32546	5.024	ug/l	98
44) Trichloroethene	9.09	130	18372	4.283	ug/l	87
45) 1,2-Dichloropropane	9.37	63	23985	4.420	ug/l	91
46) Dibromomethane	9.46	93	11655	4.939	ug/l	92
47) Bromodichloromethane	9.64	83	28094	4.460	ug/l	99
48) Methyl methacrylate	9.44	41	12579m	4.207	ug/l	
49) 1,4-Dioxane	9.44	88	3700	102.418	ug/l #	86
51) 4-Methyl-2-Pentanone	10.21	43	83139	23.233	ug/l	97
52) Toluene	10.38	92	51084	4.413	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	26745	4.315	ug/l	94
54) cis-1,3-Dichloropropene	10.07	75	31491	4.171	ug/l	93
55) 1,1,2-Trichloroethane	10.79	97	14021	4.337	ug/l #	89
56) Ethyl methacrylate	10.65	69	17164	4.114	ug/l	96
57) 1,3-Dichloropropane	10.93	76	28793	4.678	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.92	63	48514	19.819	ug/l	99
59) 2-Hexanone	10.97	43	50565	22.622	ug/l	94
60) Dibromochloromethane	11.13	129	14271	4.274	ug/l	96
61) 1,2-Dibromoethane	11.24	107	13668	4.768	ug/l	97
64) Tetrachloroethene	10.86	164	13882	4.233	ug/l	97
65) Chlorobenzene	11.66	112	49299	4.322	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.73	131	16526	4.351	ug/l	99
67) Ethyl Benzene	11.73	91	88017	3.965	ug/l	100
68) m/p-Xylenes	11.83	106	60334	7.689	ug/l	96
69) o-Xylene	12.16	106	26274	3.717	ug/l	97
70) Styrene	12.18	104	42392	3.500	ug/l	98
71) Bromoform	12.35	173	7262	4.308	ug/l #	99
73) Isopropylbenzene	12.46	105	70500	3.807	ug/l	99
74) N-amyl acetate	12.27	43	21820	3.987	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	19766	5.257	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	15266m	5.572	ug/l	
77) Bromobenzene	12.74	156	16443	4.493	ug/l	96
78) n-propylbenzene	12.80	91	99793	4.147	ug/l	99
79) 2-Chlorotoluene	12.89	91	57228	4.230	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	62015	3.895	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	5171	4.263	ug/l	90
82) 4-Chlorotoluene	12.99	91	60071	4.169	ug/l	99
83) tert-Butylbenzene	13.21	119	48756	3.780	ug/l	97
84) 1,2,4-Trimethylbenzene	13.25	105	57716	3.626	ug/l	100
85) sec-Butylbenzene	13.38	105	76876	3.938	ug/l	99
86) p-Isopropyltoluene	13.50	119	62555	3.728	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	33705	4.347	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	34519	4.521	ug/l	89
89) n-Butylbenzene	13.82	91	67124	3.710	ug/l	97
90) Hexachloroethane	14.09	117	13984	4.156	ug/l	96
91) 1,2-Dichlorobenzene	13.86	146	29357	4.323	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	3406	5.641	ug/l	84

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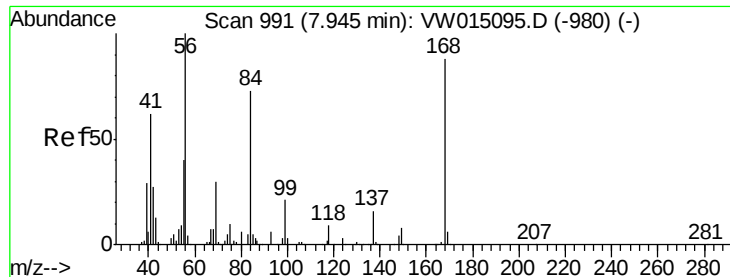
Manual Integrations
APPROVED

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030920S.M
Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	13469	3.466	ug/l	96
94) Hexachlorobutadiene	15.23	225	10686	4.379	ug/l	93
95) Naphthalene	15.36	128	21044	2.900	ug/l	96
96) 1,2,3-Trichlorobenzene	15.55	180	12660	3.673	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: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:168 Resp: 325052

Ion Ratio Lower Upper

168 100

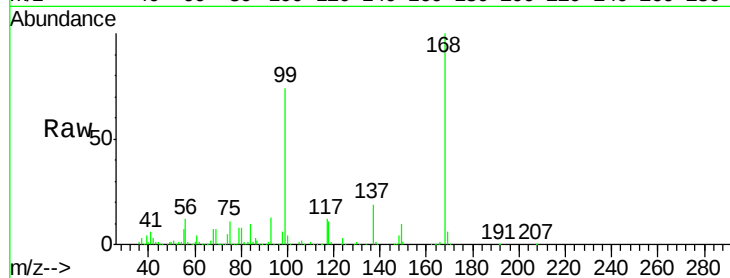
99 73.8 57.2 85.8

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

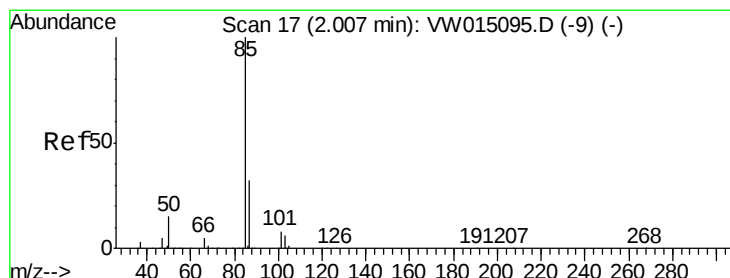
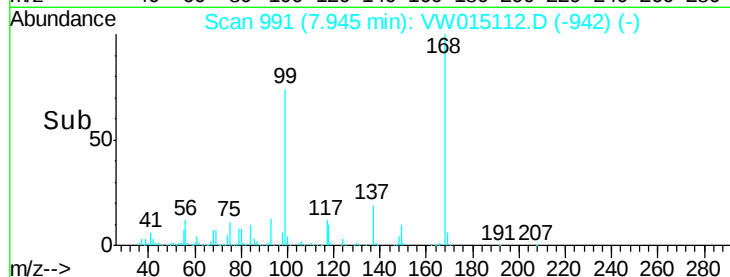
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50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 4.251 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW015112.D

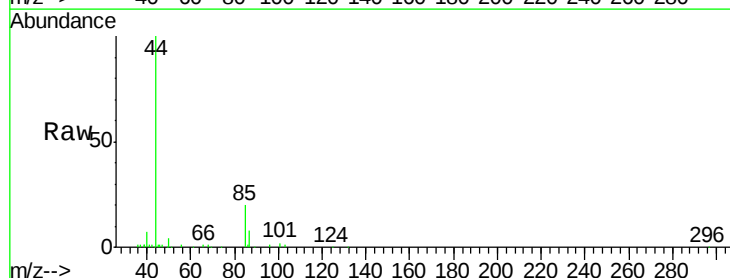
Acq: 10 Mar 2020 14:35

Tgt Ion: 85 Resp: 8379

Ion Ratio Lower Upper

85 100

87 38.9 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

3000

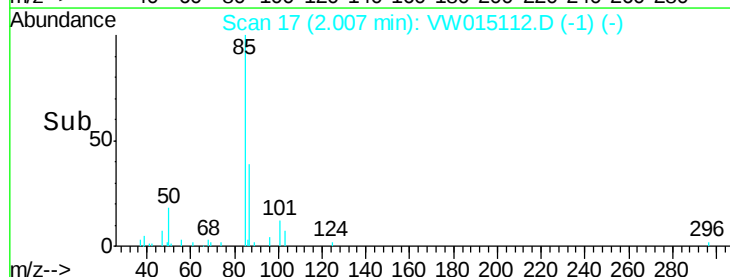
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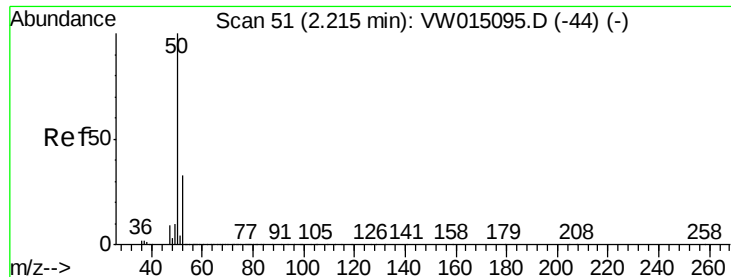
1000

0

1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 5.170 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 50 Resp: 21867

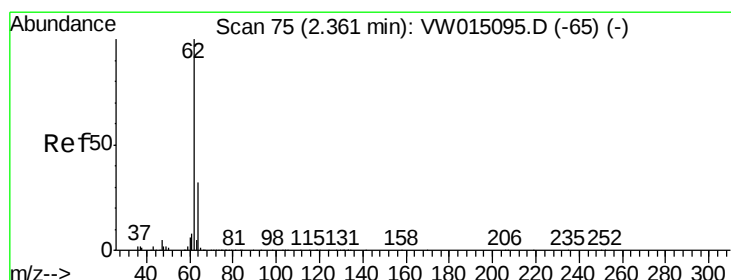
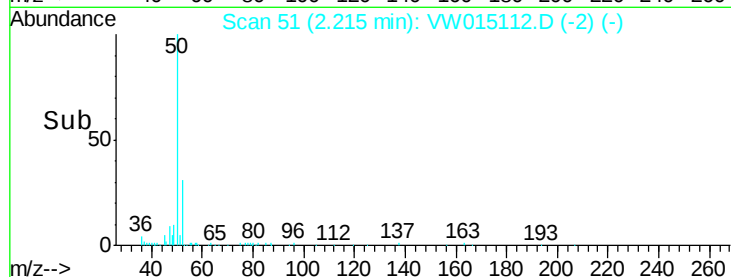
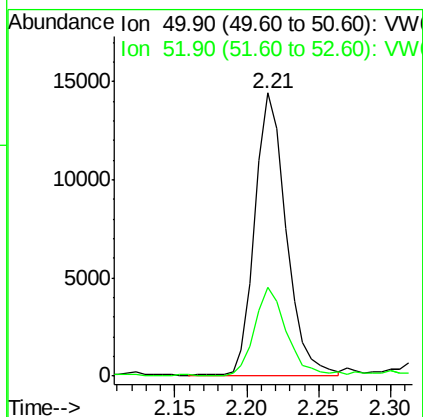
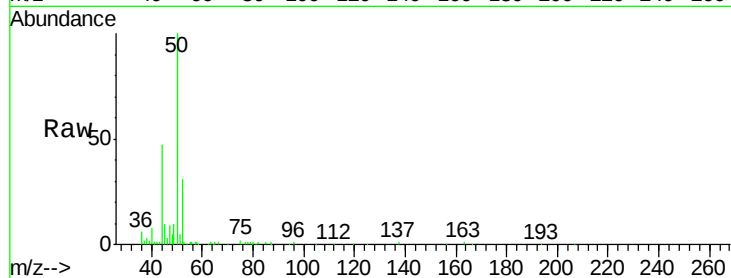
Ion Ratio Lower Upper

50 100

52 31.0 26.6 40.0

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#4

Vinyl Chloride

Concen: 4.608 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW015112.D

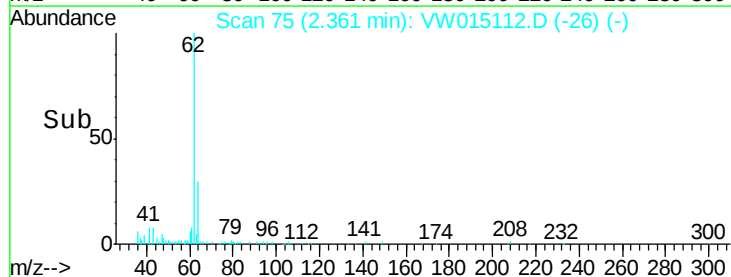
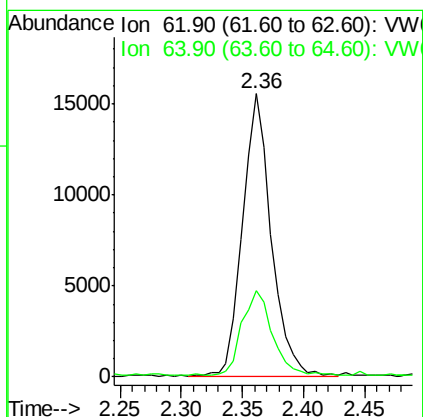
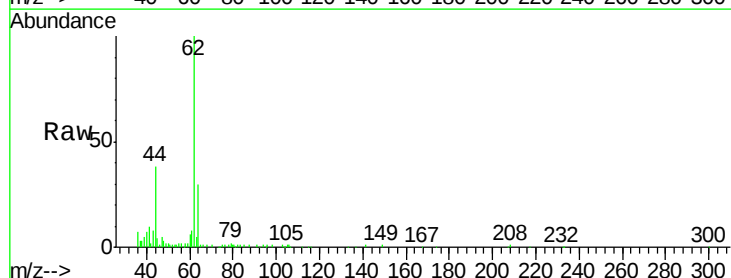
Acq: 10 Mar 2020 14:35

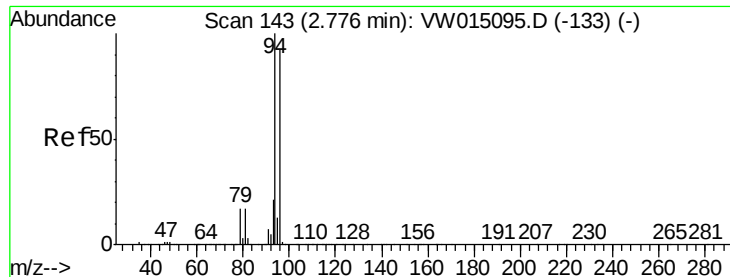
Tgt Ion: 62 Resp: 25514

Ion Ratio Lower Upper

62 100

64 29.7 25.3 37.9





#5

Bromomethane

Concen: 4.446 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

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MDL-SOIL-03-QT1-2020DL

Tot Ion: 94 Resp: 14072

Ion Ratio Lower Upper

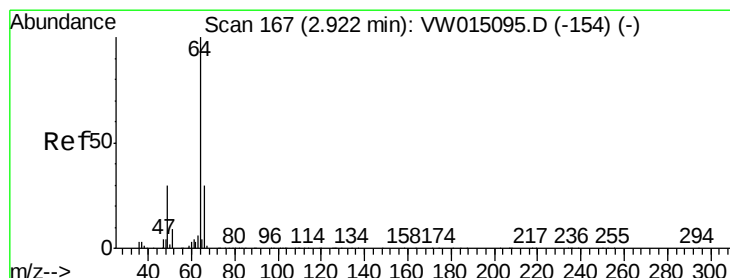
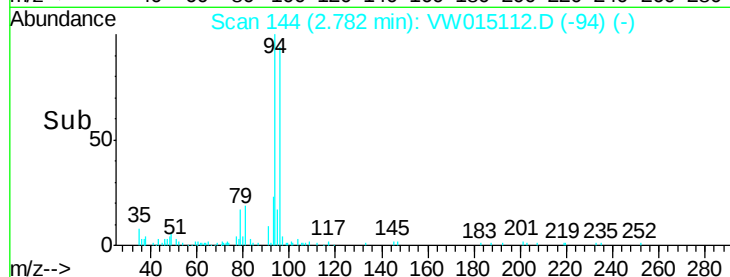
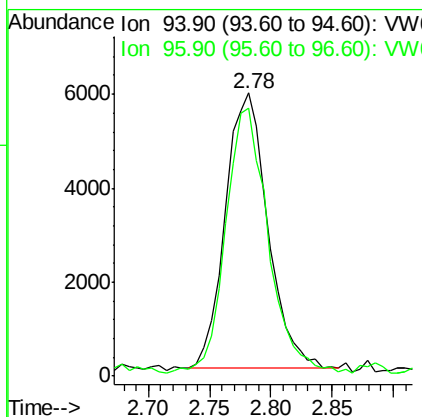
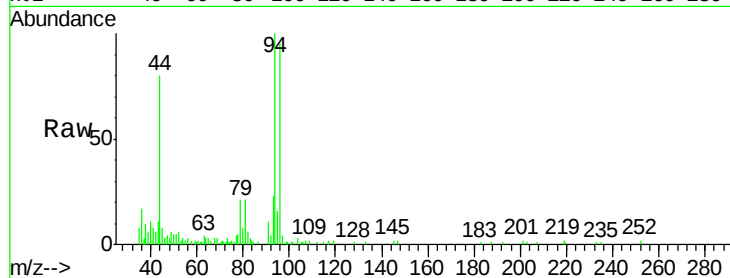
94 100

96 95.9 74.0 111.0

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3/11/2020 3:22:14 PM



#6

Chloroethane

Concen: 4.324 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW015112.D

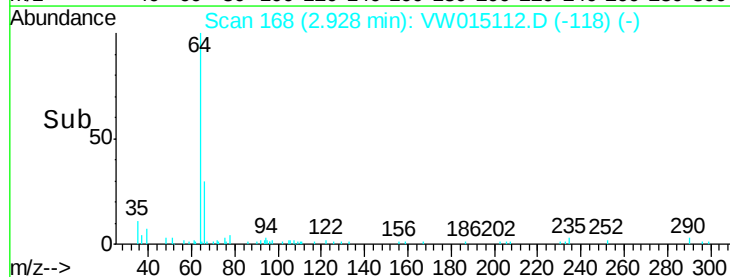
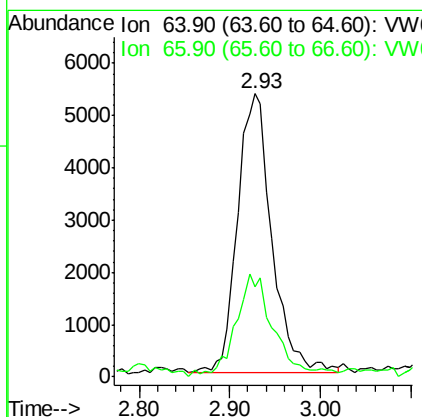
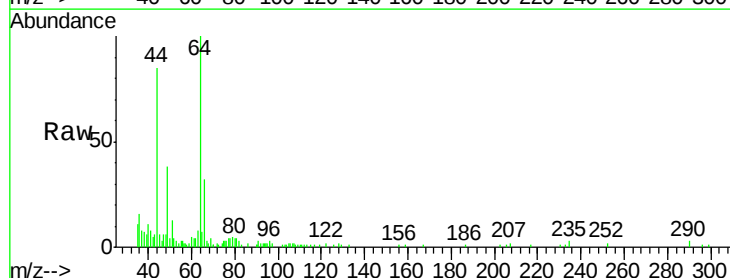
Acq: 10 Mar 2020 14:35

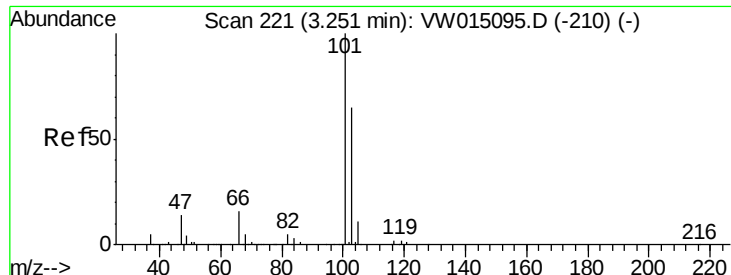
Tgt Ion: 64 Resp: 13867

Ion Ratio Lower Upper

64 100

66 32.4 24.2 36.2





#7

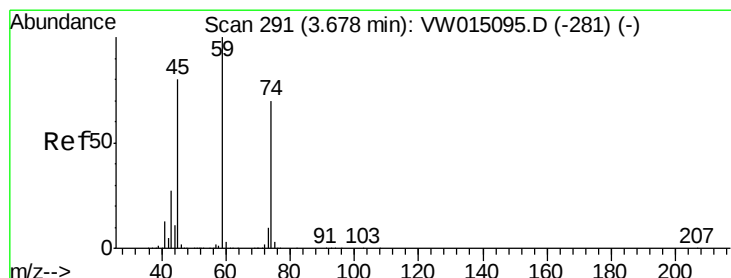
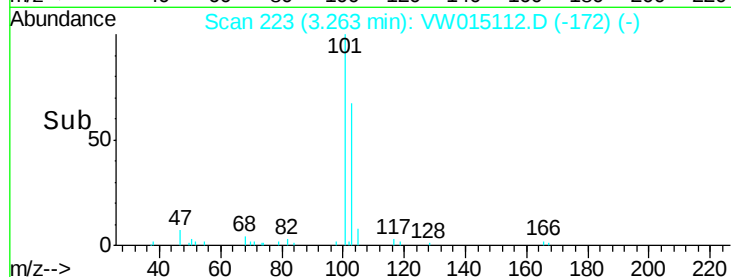
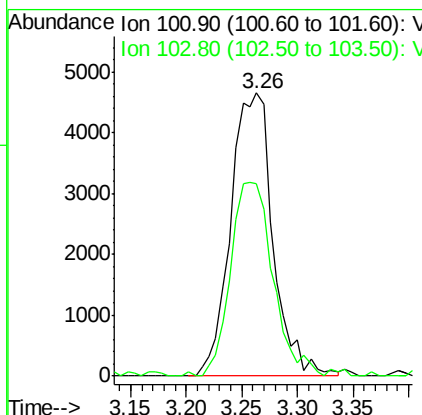
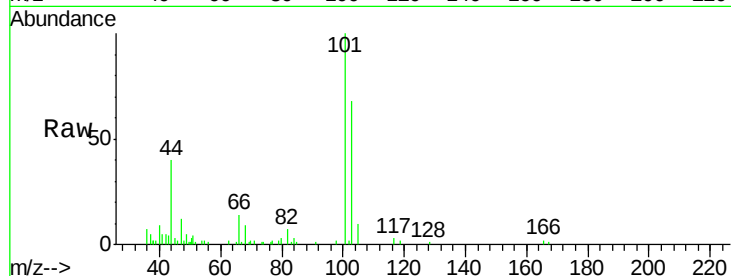
Trichlorofluoromethane
Concen: 4.416 ug/l
RT: 3.26 min Scan# 223
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	51.8	77.6

Manual Integrations
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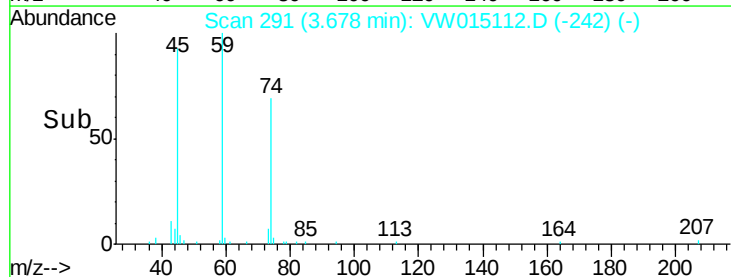
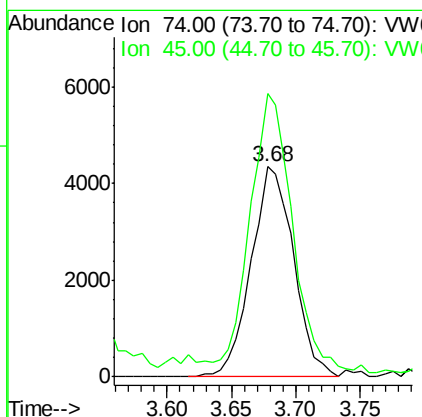
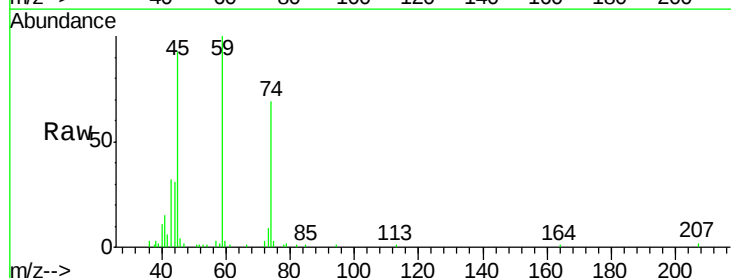
MMDadoda
3/11/2020 3:22:14 PM

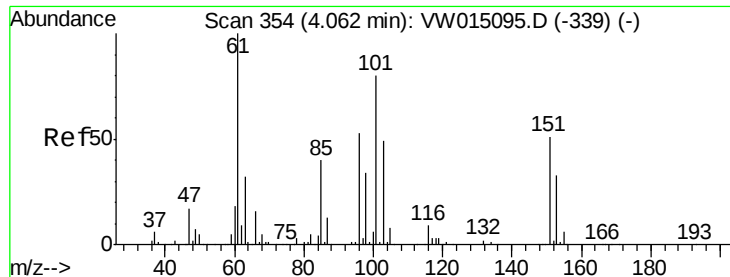


#8

Diethyl Ether
Concen: 4.702 ug/l
RT: 3.68 min Scan# 291
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	133.4	59.2	177.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.873 ug/l

RT: 4.07 min Scan# 356

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

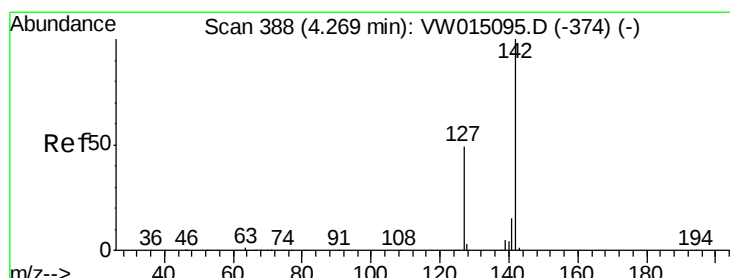
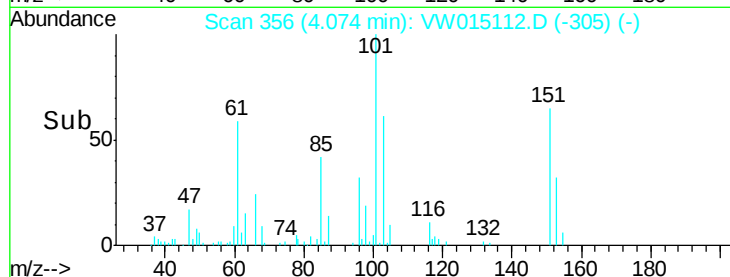
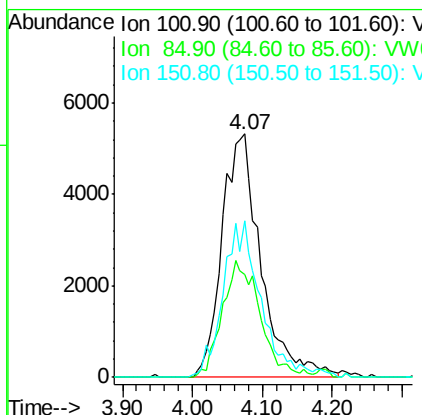
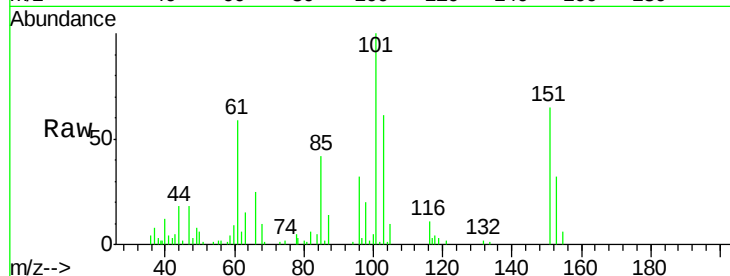
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	101	Resp:	20583
Ion Ratio	Lower	Upper	
101	100		
85	46.1	39.0	58.4
151	61.5	50.8	76.2

Manual Integrations
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#10

Methyl Iodide

Concen: 4.403 ug/l

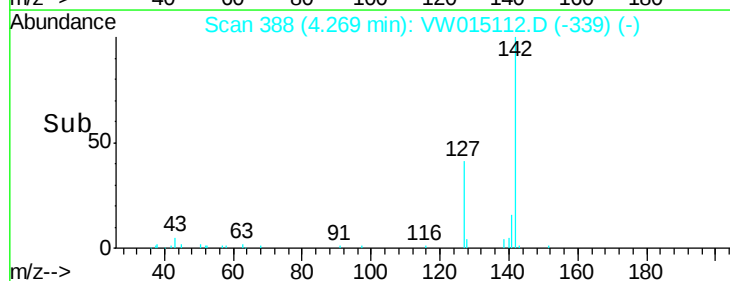
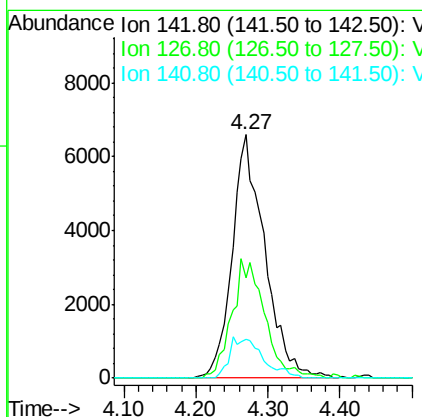
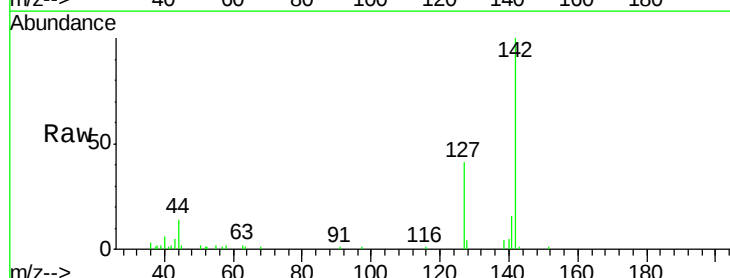
RT: 4.27 min Scan# 388

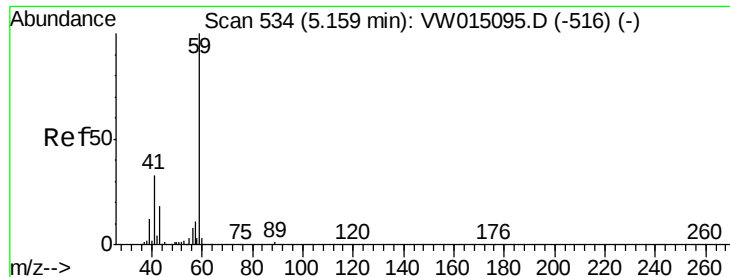
Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	142	Resp:	20693
Ion Ratio	Lower	Upper	
142	100		
127	49.2	38.2	57.4
141	17.0	12.0	18.0





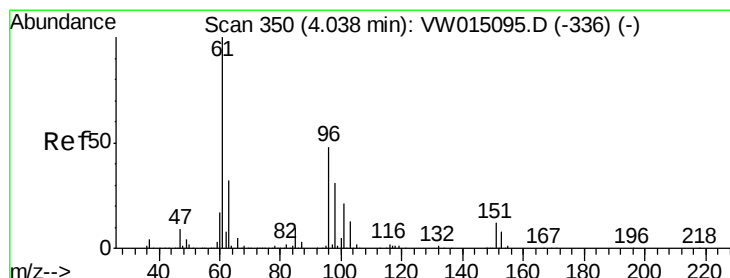
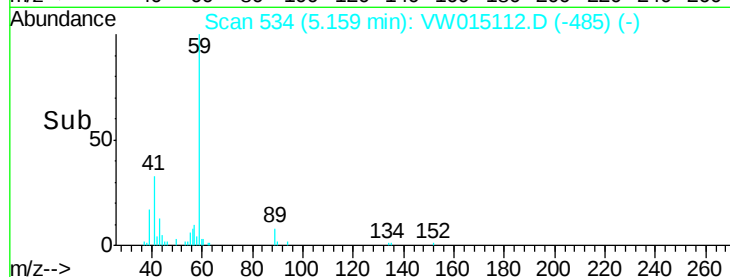
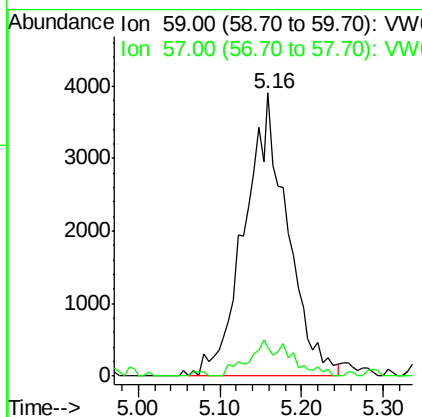
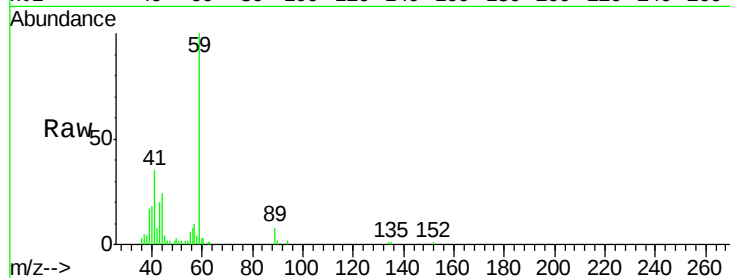
#11
Tert butyl alcohol
Concen: 51.725 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion: 59 Resp: 14208
Ion Ratio Lower Upper
59 100
57 7.0 9.1 13.7#

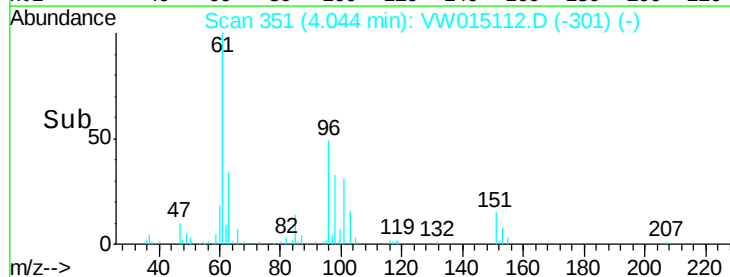
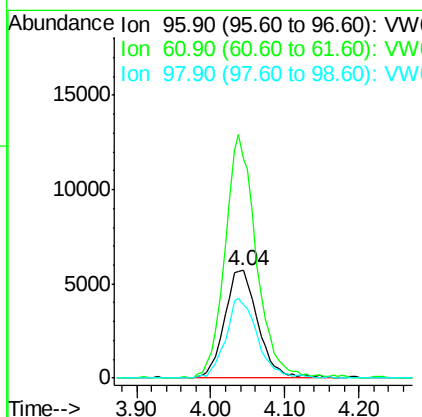
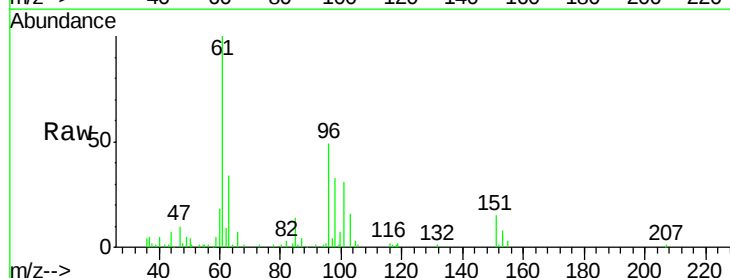
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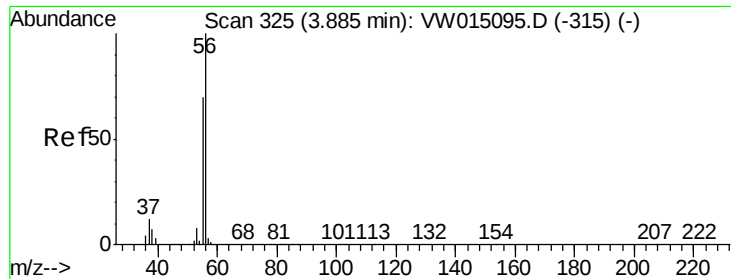
MMDadoda
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#12
1,1-Dichloroethene
Concen: 4.333 ug/l
RT: 4.04 min Scan# 351
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion: 96 Resp: 17896
Ion Ratio Lower Upper
96 100
61 204.1 165.5 248.3
98 68.0 51.1 76.7





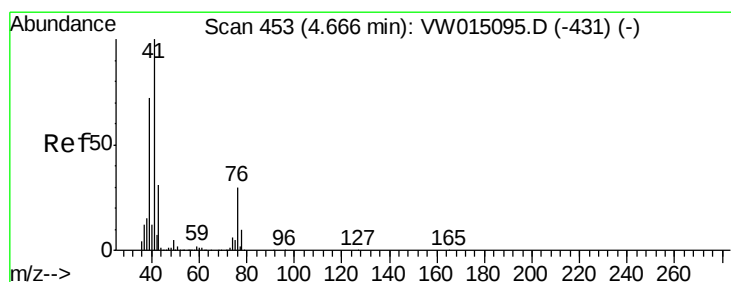
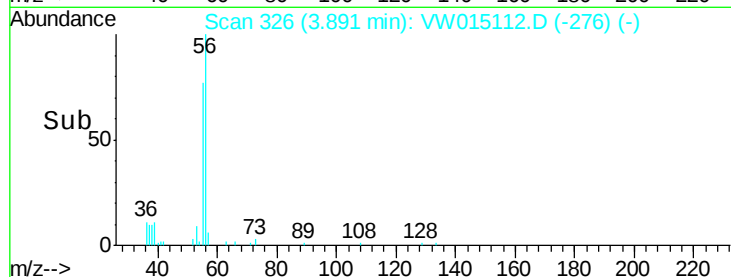
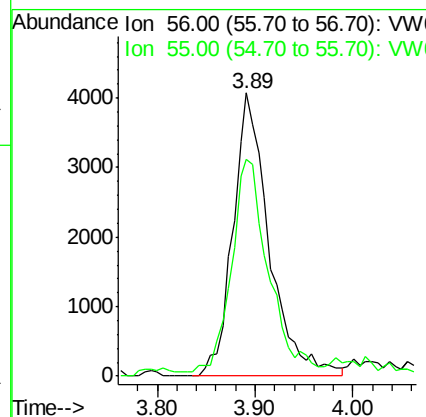
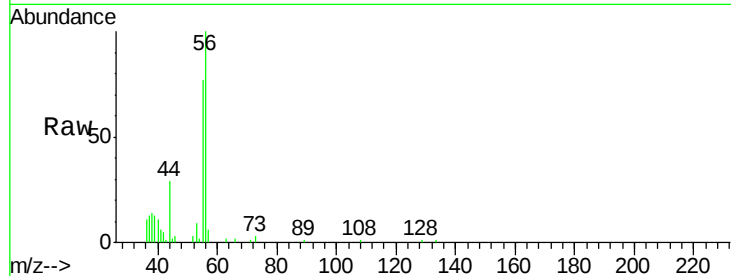
#13
Acrolein
Concen: 26.070 ug/l
RT: 3.89 min Scan# 326
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	56	Resp	10473
Ion Ratio	100	Lower	Upper
55	75.3	55.4	83.2

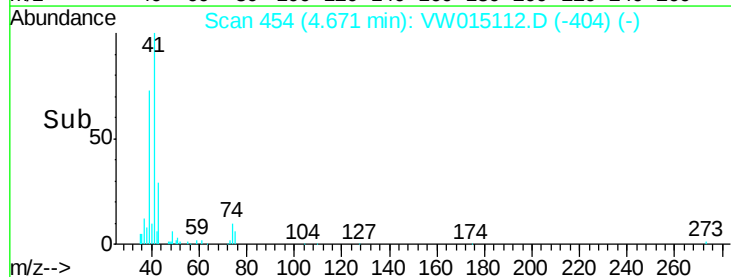
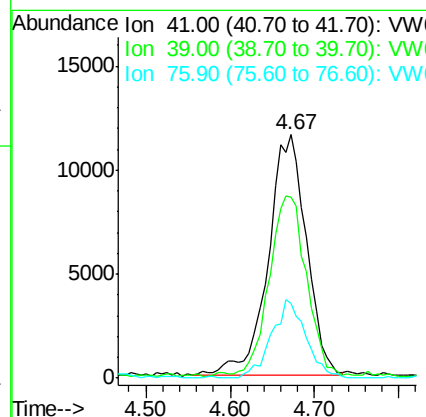
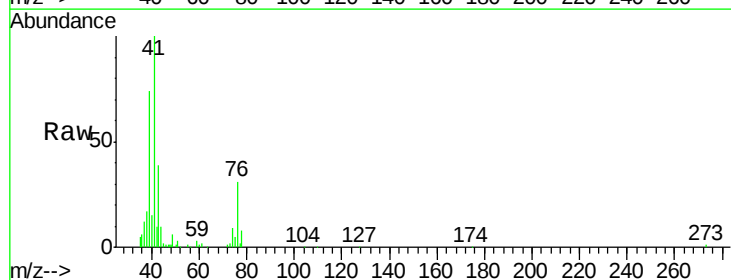
Manual Integrations
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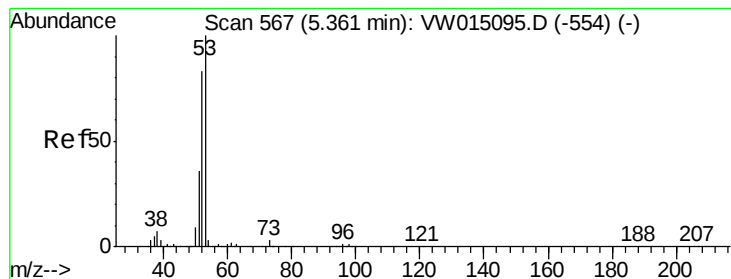
MMDadoda
3/11/2020 3:22:14 PM



#14
Allyl chloride
Concen: 4.385 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	41	Resp	36293
Ion Ratio	100	Lower	Upper
39	72.4	56.9	85.3
76	29.2	23.2	34.8





#15

Acrylonitrile

Concen: 26.212 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

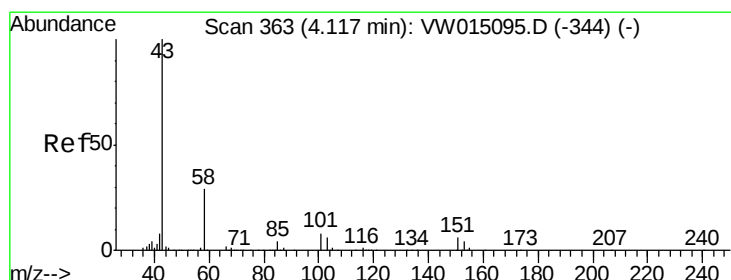
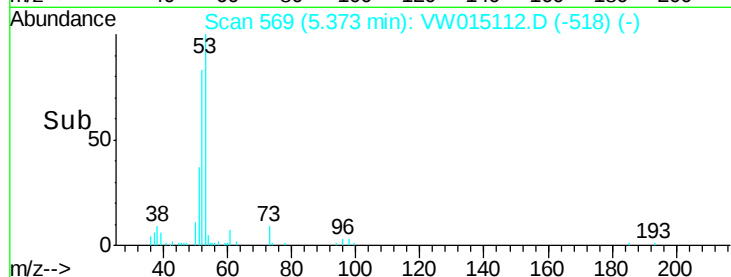
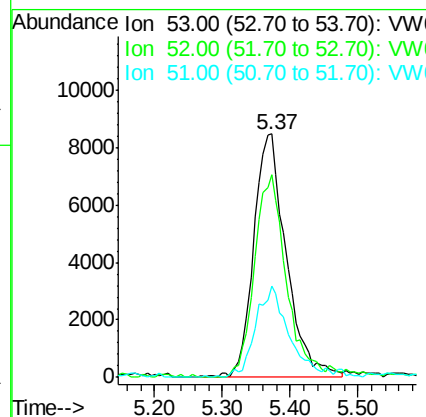
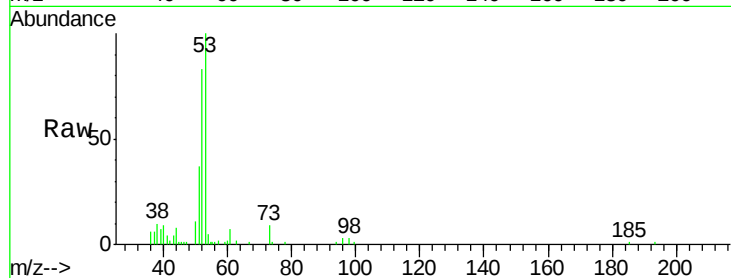
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	53	Resp:	28369
Ion	Ratio	Lower	Upper
53	100		
52	80.6	67.2	100.8
51	37.5	29.8	44.6

Manual Integrations
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#16

Acetone

Concen: 31.559 ug/l

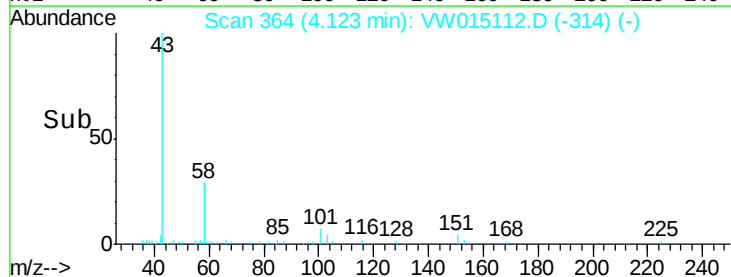
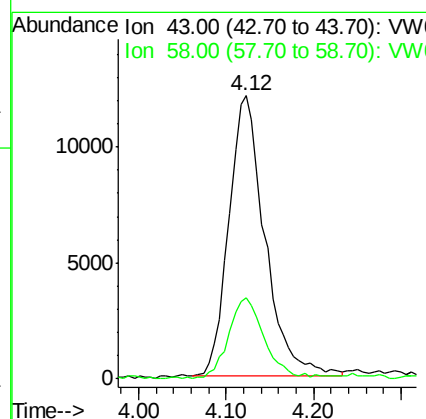
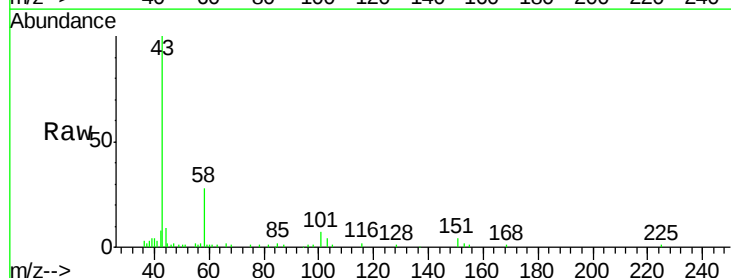
RT: 4.12 min Scan# 364

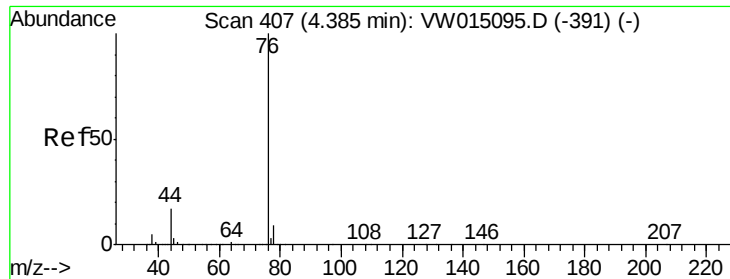
Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	43	Resp:	34400
Ion	Ratio	Lower	Upper
43	100		
58	28.8	22.9	34.3





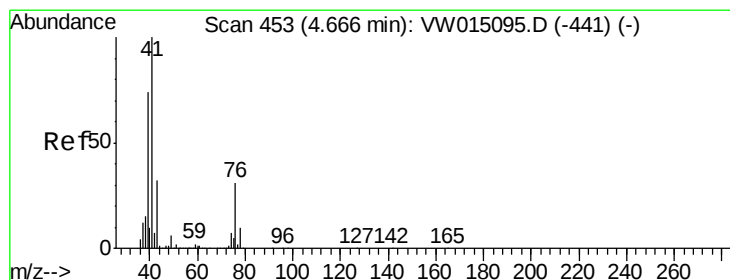
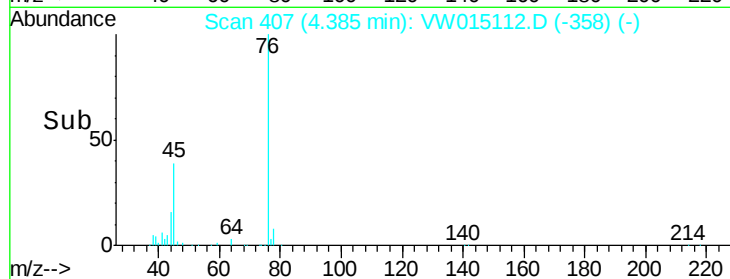
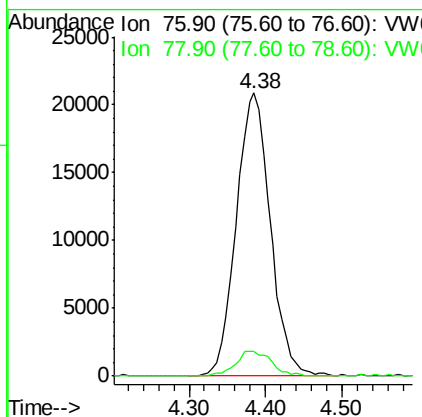
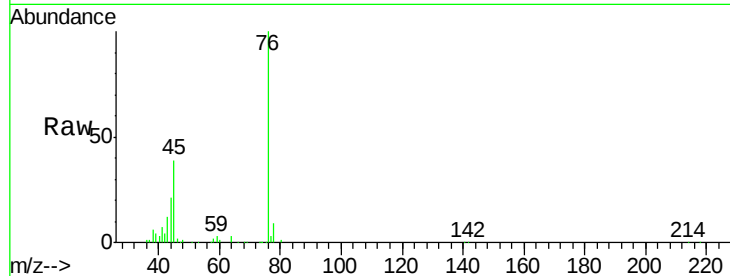
#17
Carbon Disulfide
Concen: 4.410 ug/l
RT: 4.38 min Scan# 407
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.9	10.3

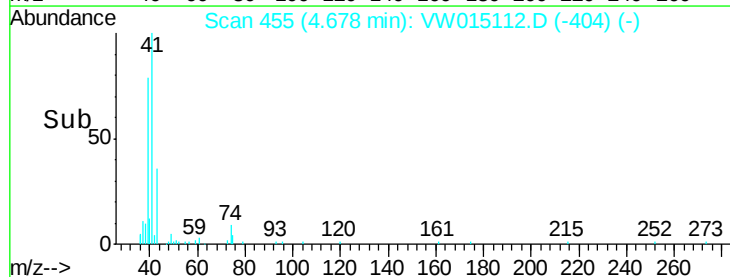
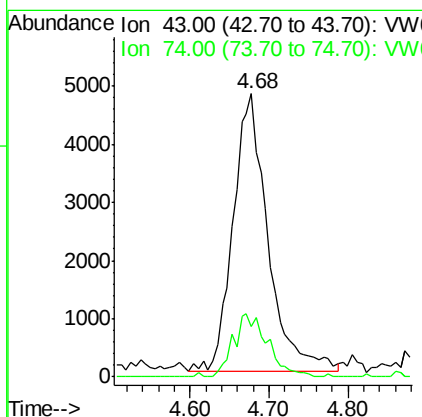
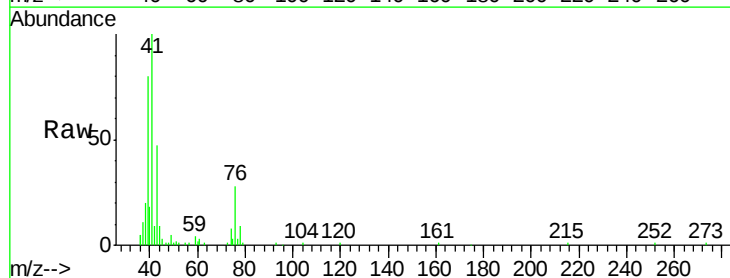
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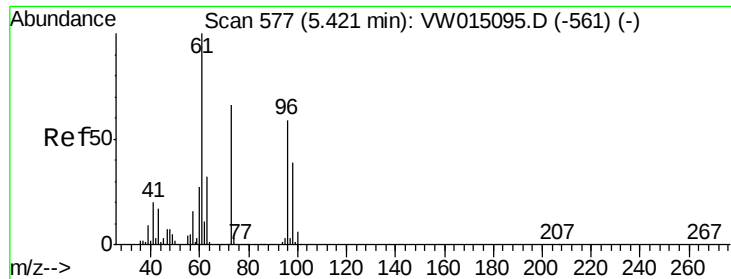
MMDadoda
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#18
Methyl Acetate
Concen: 5.678 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.3	15.8	23.6





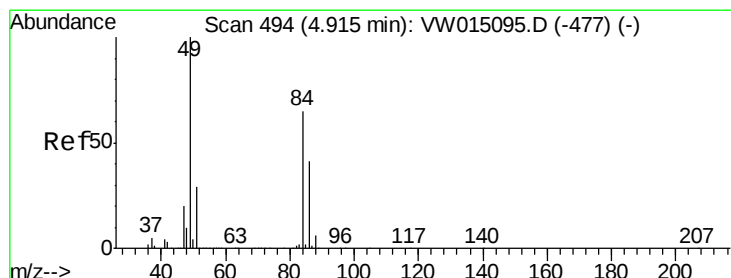
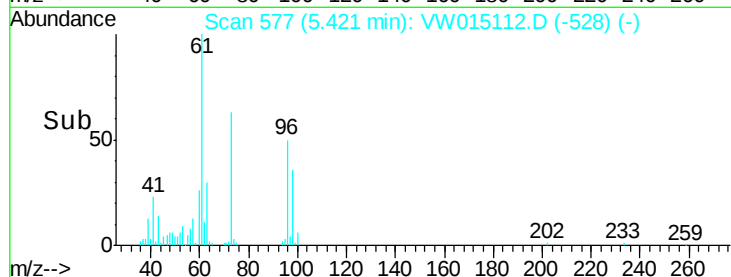
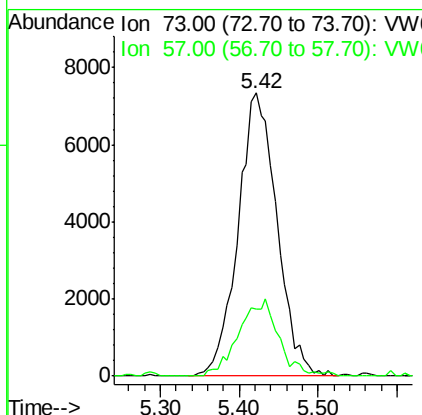
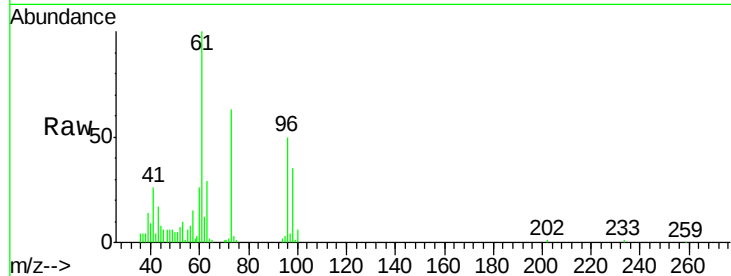
#19
Methyl tert-butyl Ether
Concen: 4.762 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.3	28.9

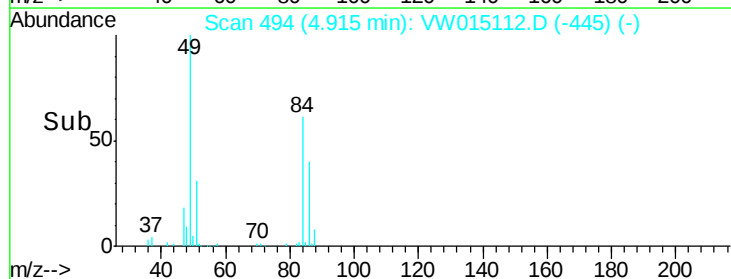
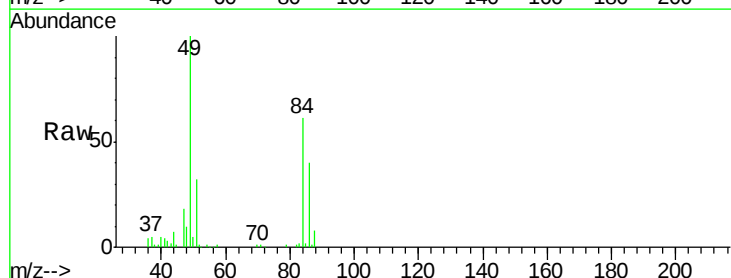
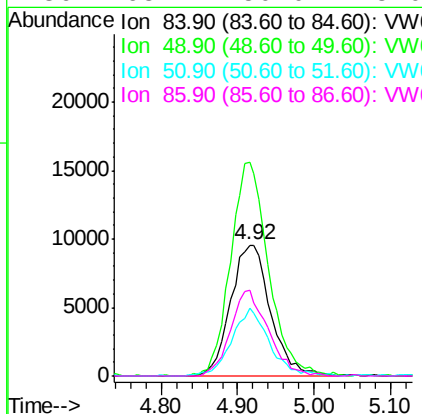
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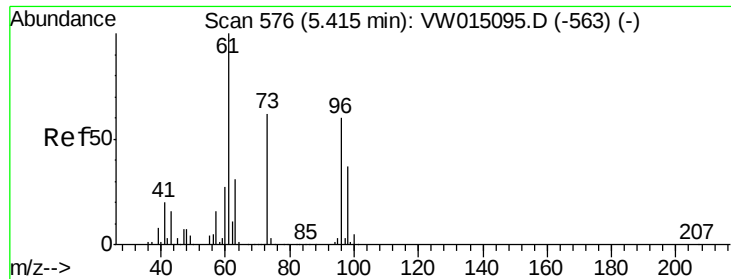
MMDadoda
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#20
Methylene Chloride
Concen: 6.803 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
84	100		
49	163.4	122.8	184.2
51	52.0	35.9	53.9
86	65.4	50.0	75.0





#21

trans-1,2-Dichloroethene

Concen: 4.516 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

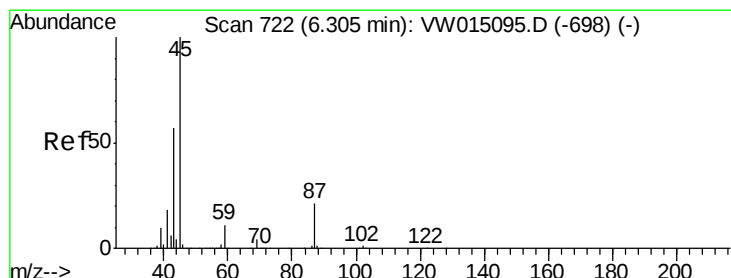
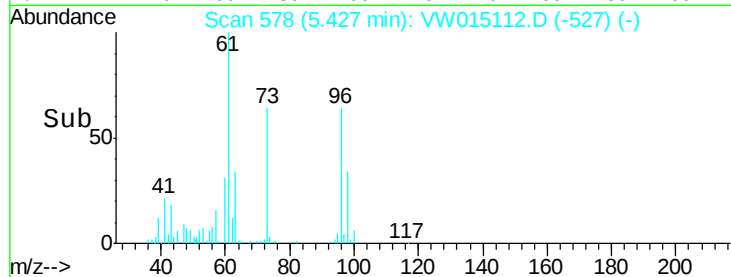
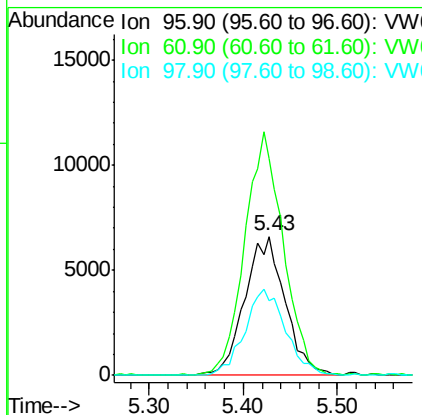
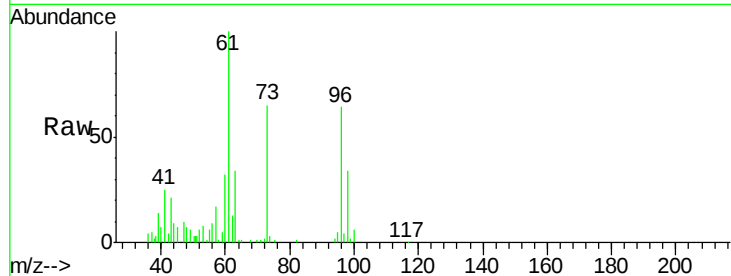
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	96	Resp:	19802
Ion	Ratio	Lower	Upper
96	100		
61	156.5	132.5	198.7
98	53.9	48.9	73.3

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#22

Diisopropyl ether

Concen: 4.086 ug/l

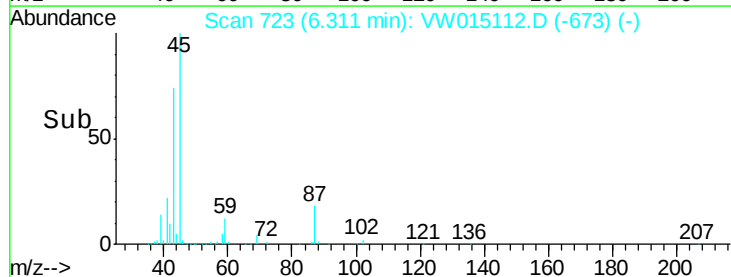
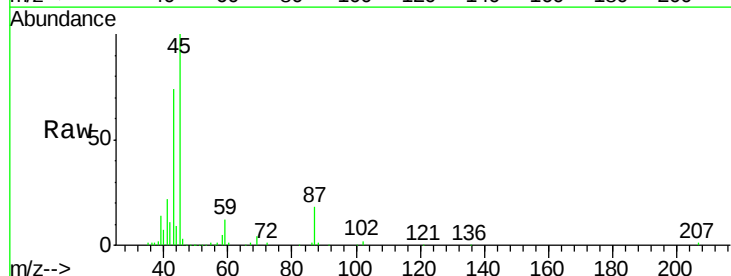
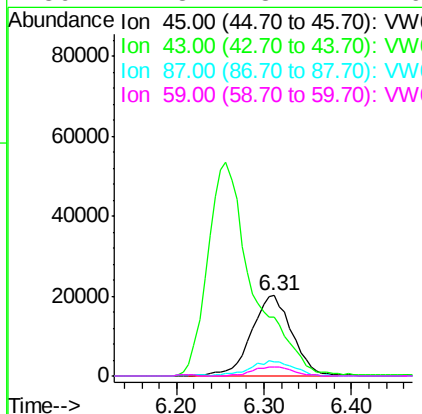
RT: 6.31 min Scan# 723

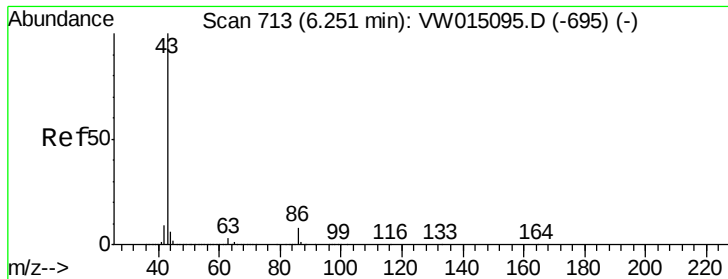
Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	45	Resp:	64885
Ion	Ratio	Lower	Upper
45	100		
43	71.4	45.4	68.0#
87	17.8	16.4	24.6
59	11.8	8.4	12.6





#23

Vinyl Acetate

Concen: 20.332 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 190610

Ion Ratio Lower Upper

43 100

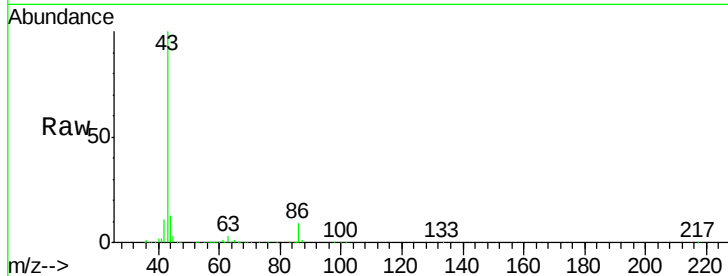
86 8.8 6.3 9.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.26

60000

50000

40000

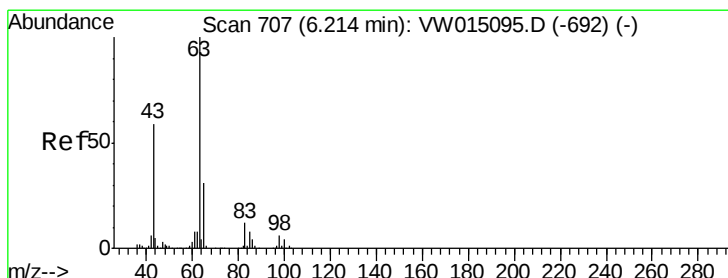
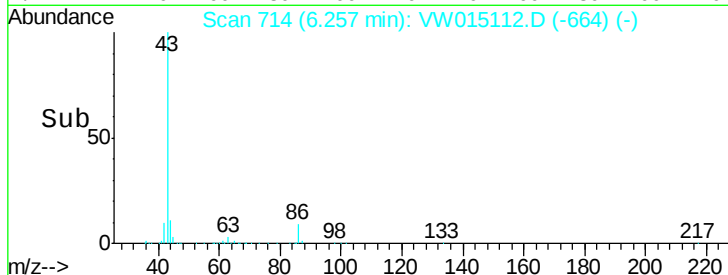
30000

20000

10000

0

Time-->



#24

1,1-Dichloroethane

Concen: 4.567 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

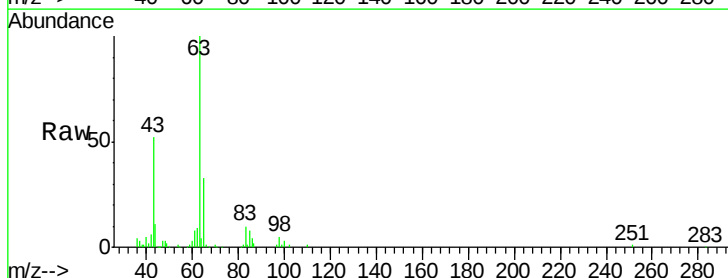
Tgt Ion: 63 Resp: 42298

Ion Ratio Lower Upper

63 100

98 5.1 2.9 8.8

100 3.2 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

20000

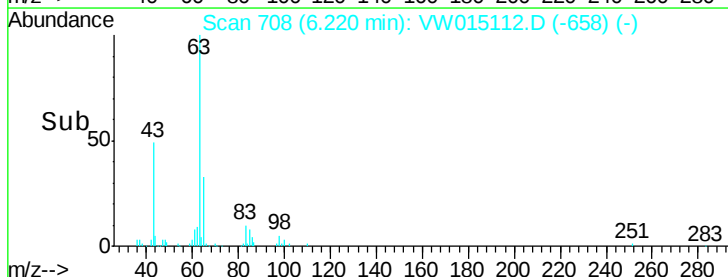
15000

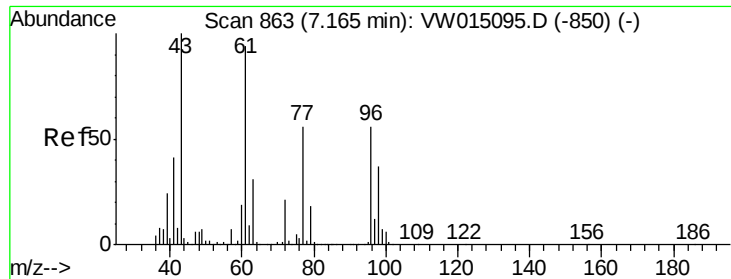
10000

5000

0

Time-->





#25

2-Butanone

Concen: 29.126 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 43523

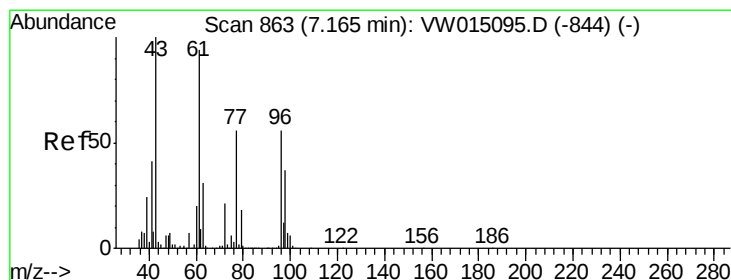
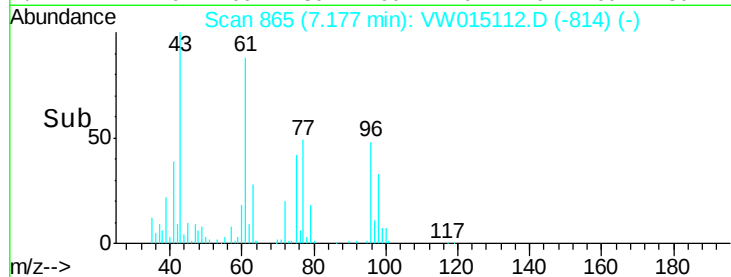
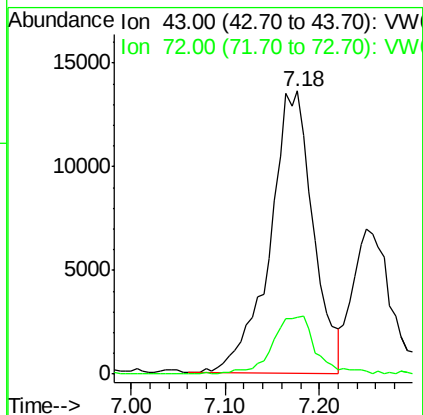
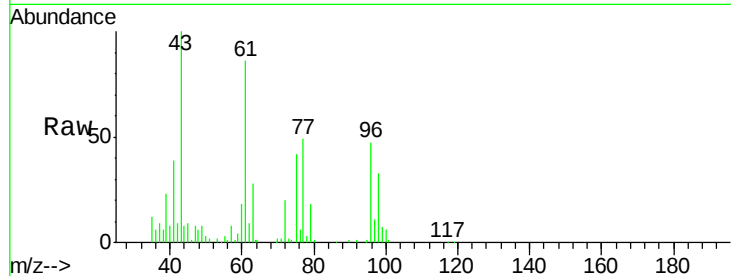
Ion Ratio Lower Upper

43 100

72 20.3 17.0 25.6

Manual Integrations
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#26

2,2-Dichloropropane

Concen: 6.007 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW015112.D

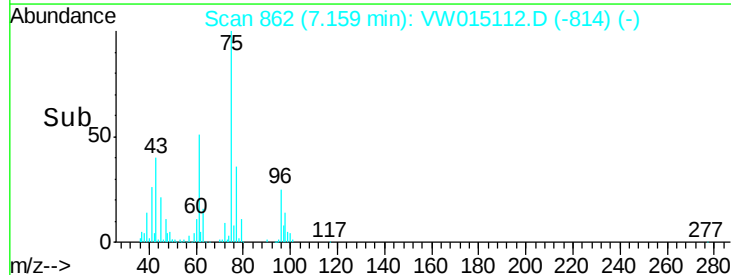
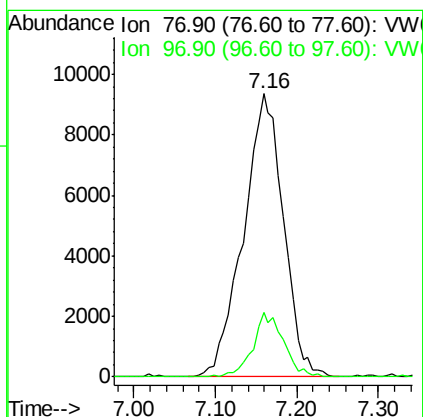
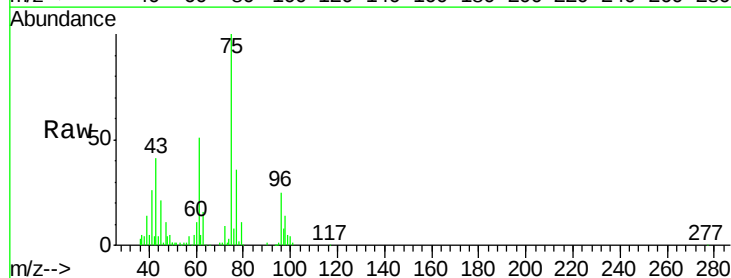
Acq: 10 Mar 2020 14:35

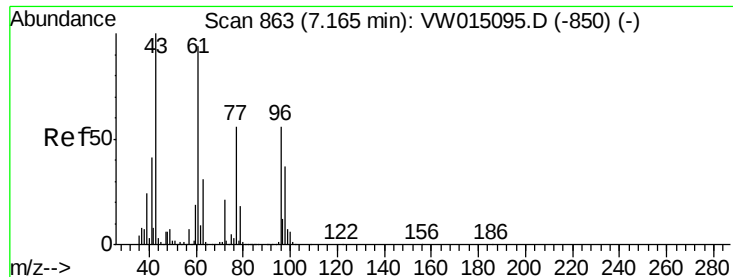
Tgt Ion: 77 Resp: 31817

Ion Ratio Lower Upper

77 100

97 17.4 10.6 31.8





#27

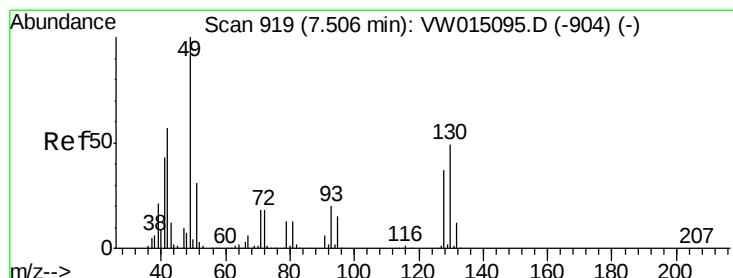
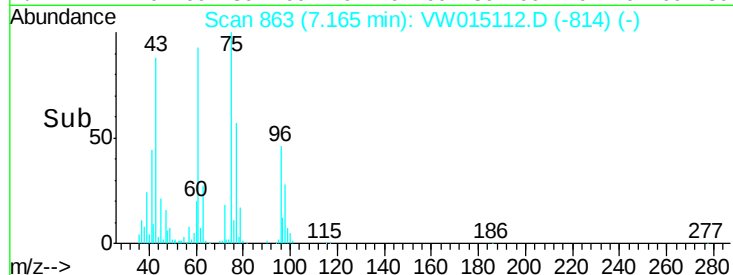
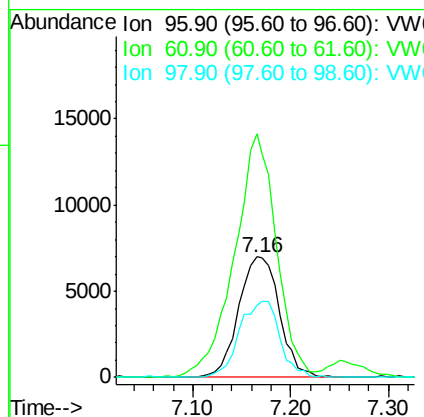
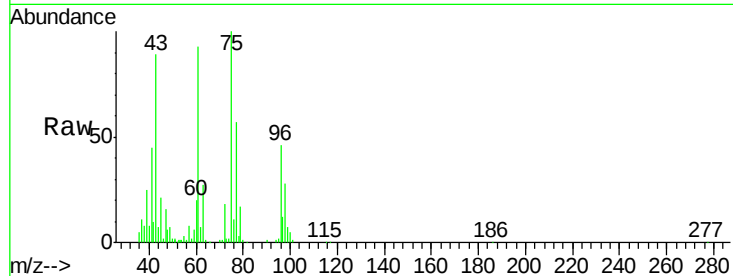
cis-1,2-Dichloroethene
Concen: 4.439 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	207.8	0.0	343.4
98	62.5	0.0	127.6

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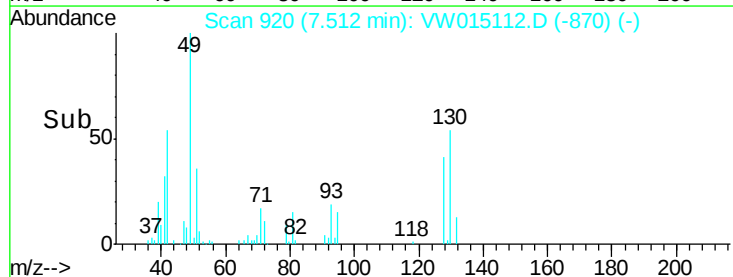
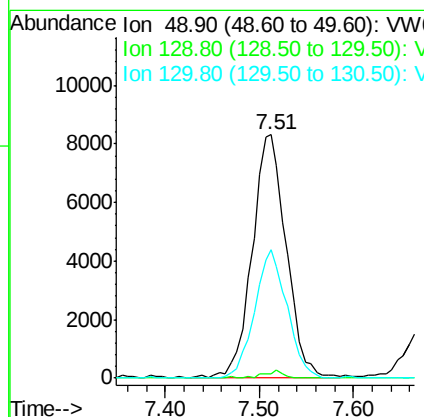
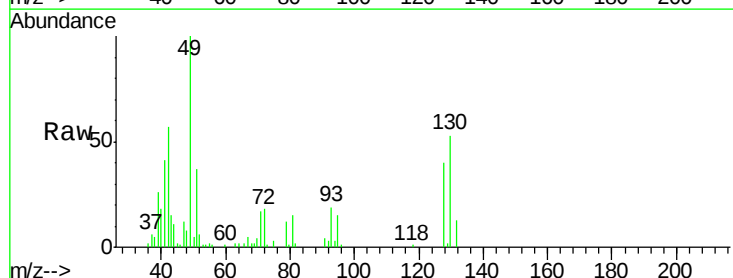
MMDadoda
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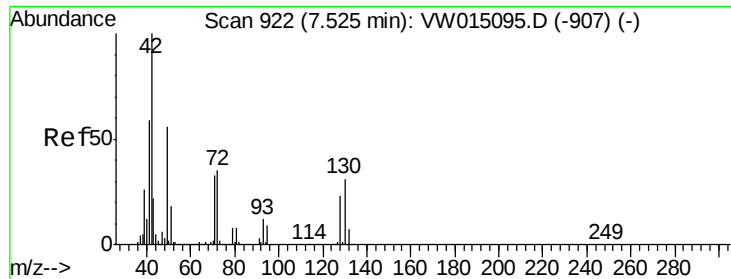


#28

Bromochloromethane
Concen: 4.753 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.0
130	50.0	39.8	59.6





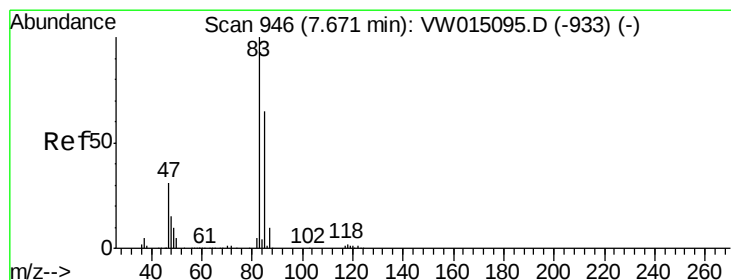
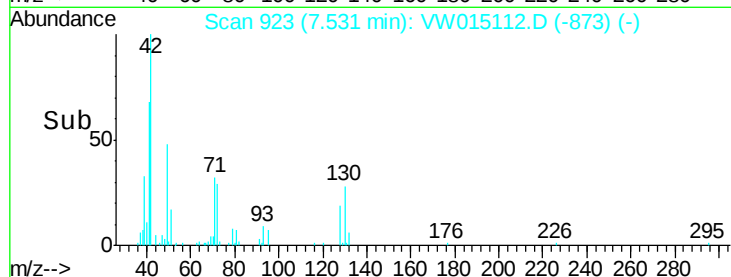
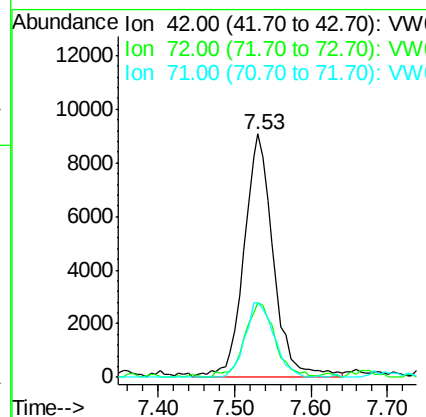
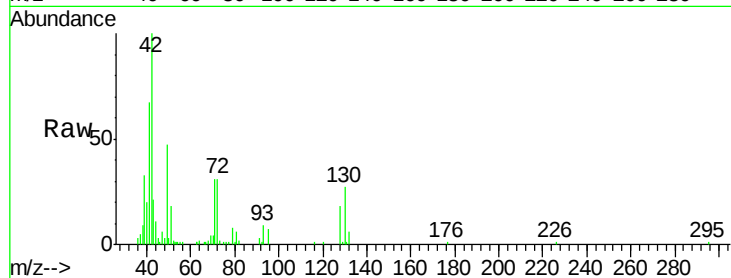
#29
Tetrahydrofuran
Concen: 25.848 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.0	27.8	41.6
71	30.5	26.4	39.6

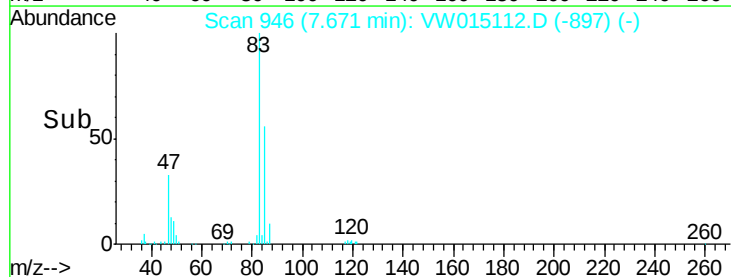
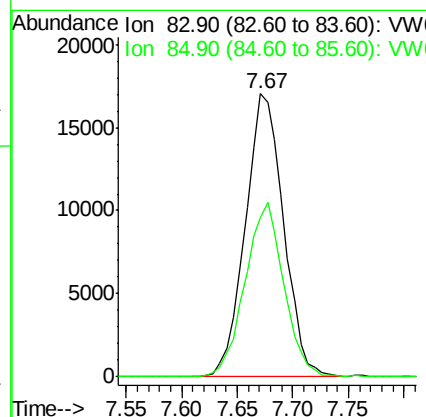
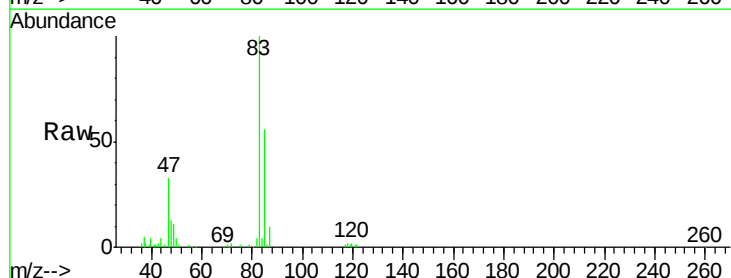
Manual Integrations
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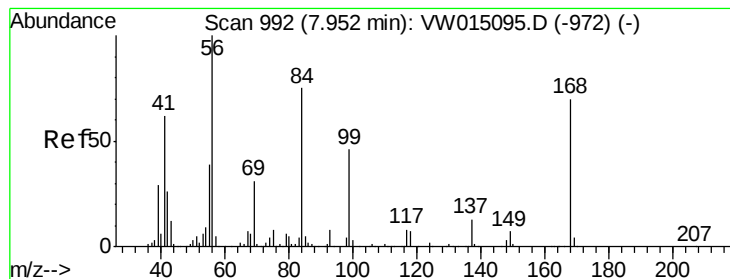
MMDadoda
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#30
Chloroform
Concen: 4.957 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.3	51.9	77.9





#31

Cyclohexane

Concen: 5.204 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

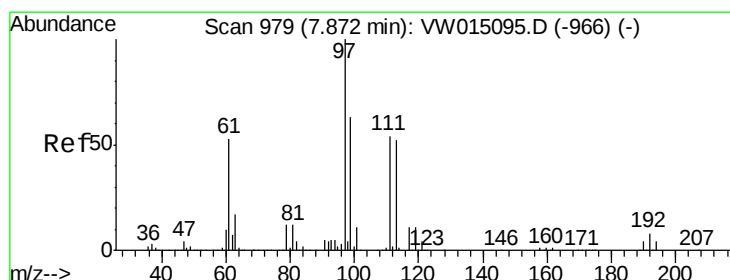
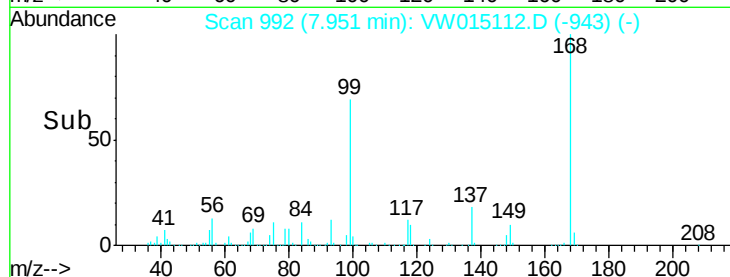
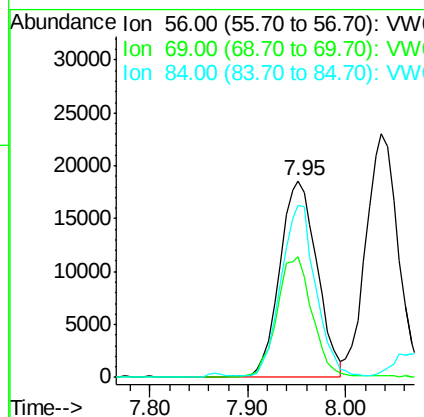
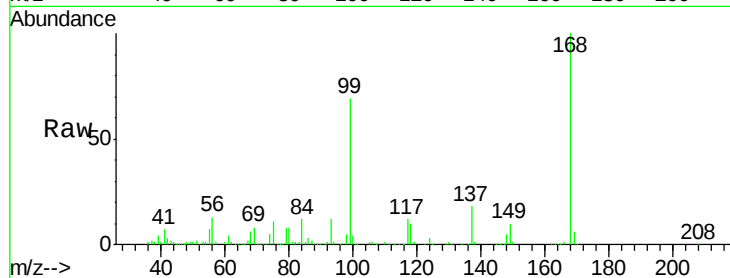
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	56	Resp:	49571
Ion Ratio	Lower	Upper	
56	100		
69	61.7	24.6	37.0#
84	87.3	59.9	89.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 4.660 ug/l

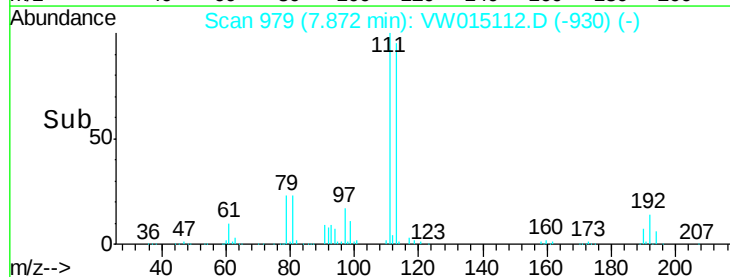
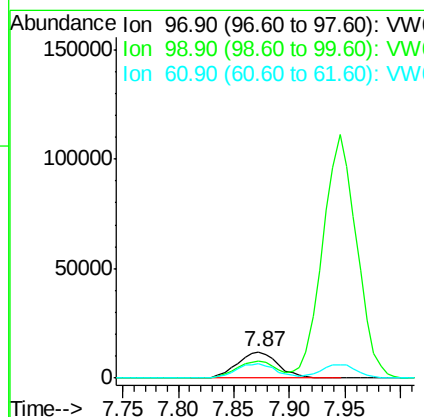
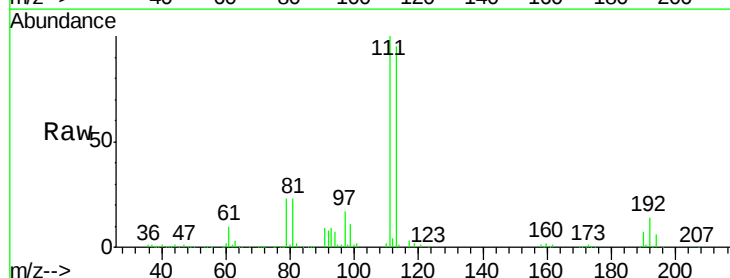
RT: 7.87 min Scan# 979

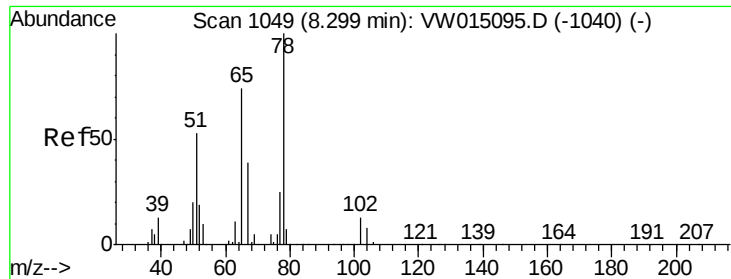
Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	97	Resp:	29902
Ion Ratio	Lower	Upper	
97	100		
99	62.8	51.3	76.9
61	55.8	44.0	66.0





#33

1,2-Dichloroethane-d4

Concen: 58.505 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 65 Resp: 279630

Ion Ratio Lower Upper

65 100

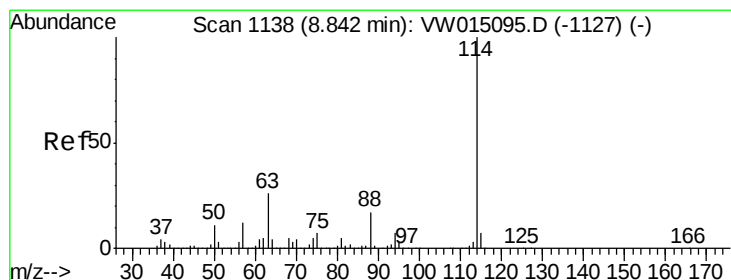
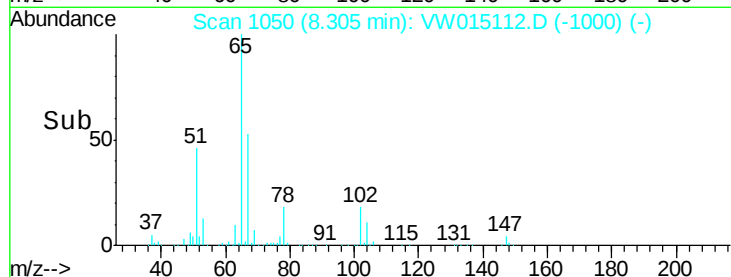
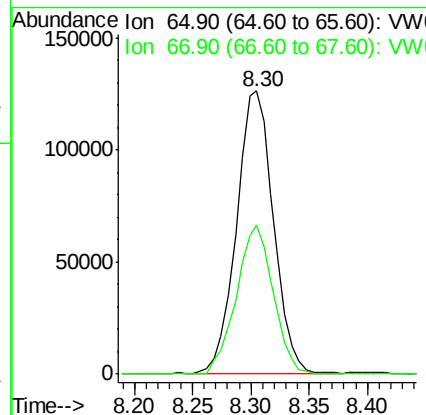
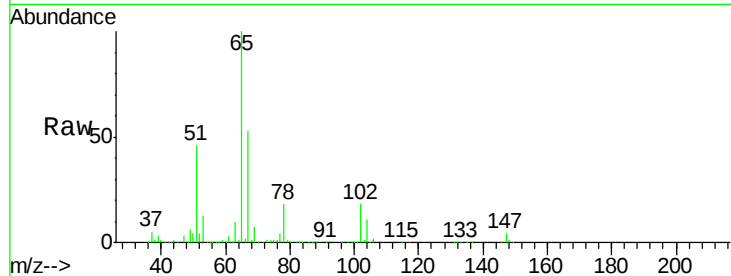
67 52.3 0.0 105.0

Manual Integrations

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3/11/2020 3:22:14 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

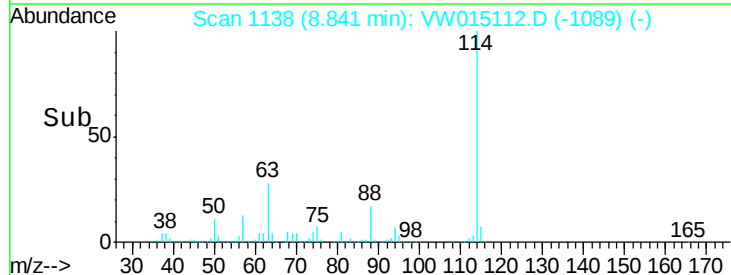
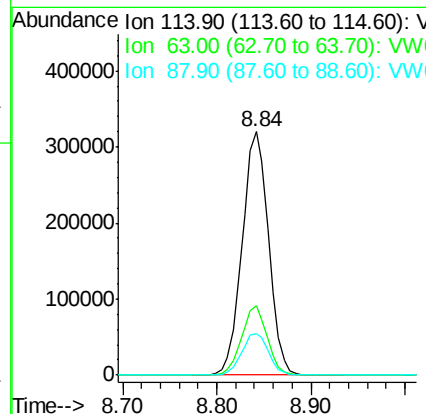
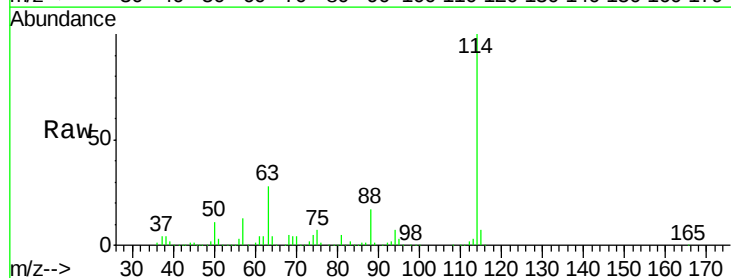
Tgt Ion: 114 Resp: 625245

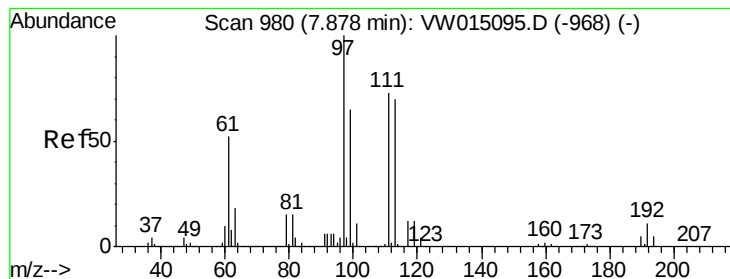
Ion Ratio Lower Upper

114 100

63 28.3 0.0 52.0

88 17.0 0.0 34.2





#35

Dibromofluoromethane

Concen: 52.307 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

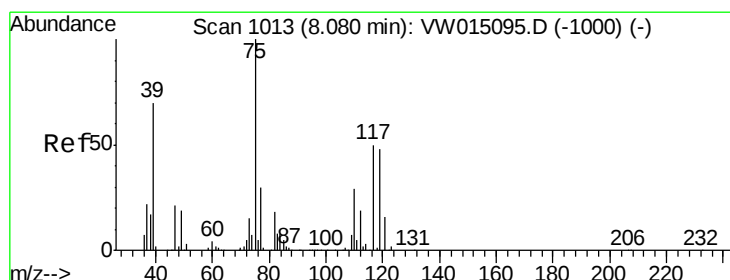
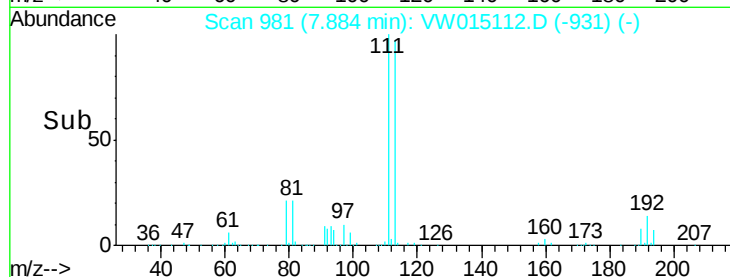
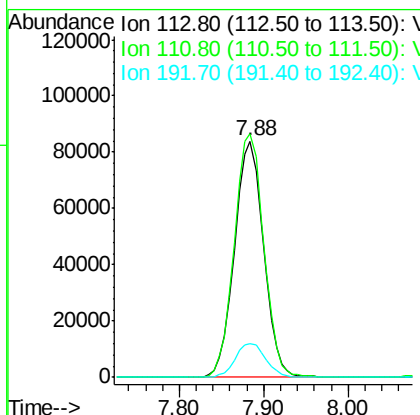
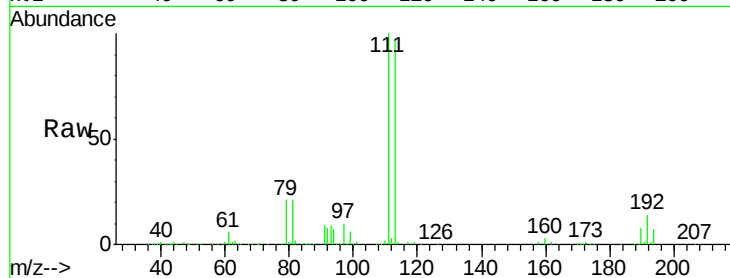
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	113	Resp:	195801
Ion Ratio	Lower	Upper	
113	100		
111	104.2	83.6	125.4
192	15.1	12.4	18.6

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3/11/2020 3:22:14 PM



#36

1,1-Dichloropropene

Concen: 4.202 ug/l

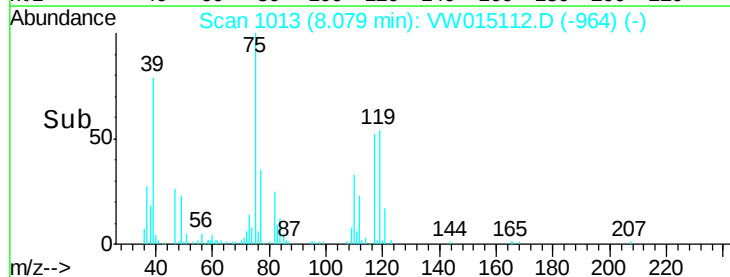
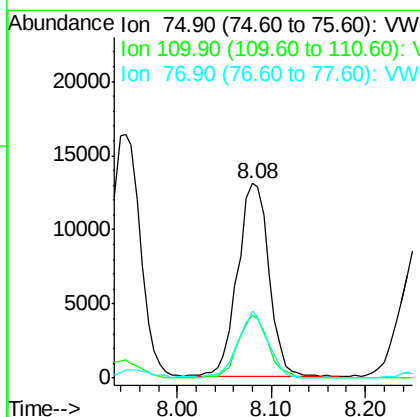
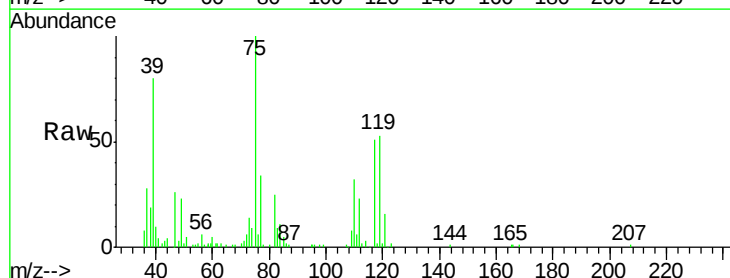
RT: 8.08 min Scan# 1013

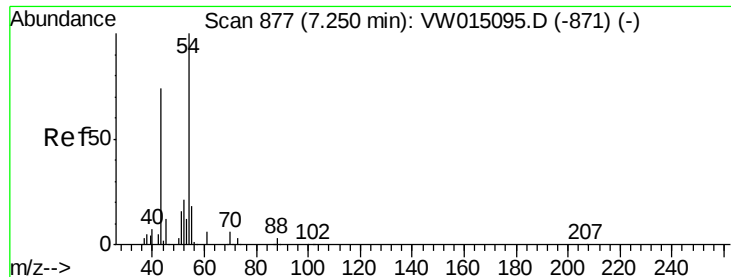
Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	75	Resp:	30471
Ion Ratio	Lower	Upper	
75	100		
110	31.2	14.7	44.1
77	33.4	24.2	36.4





#37

Ethyl Acetate

Concen: 5.687 ug/l

RT: 7.25 min Scan# 877

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

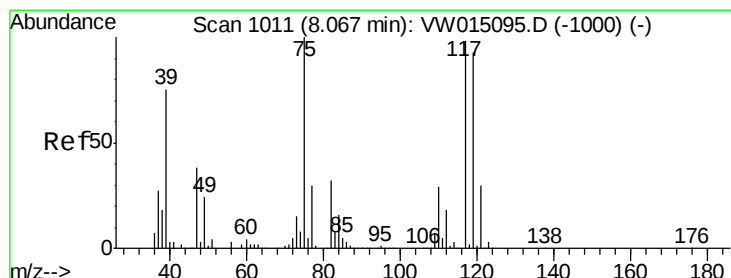
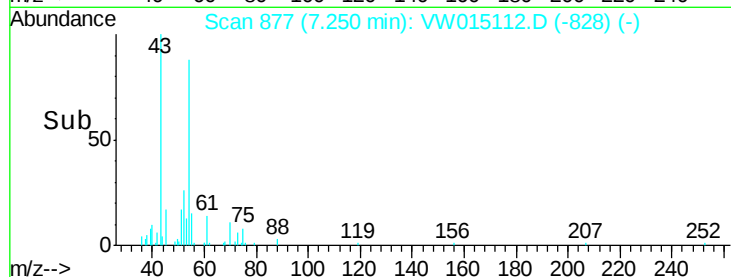
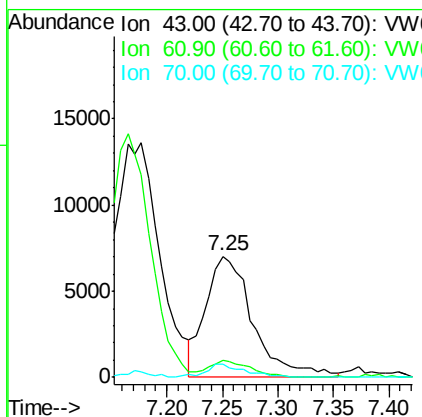
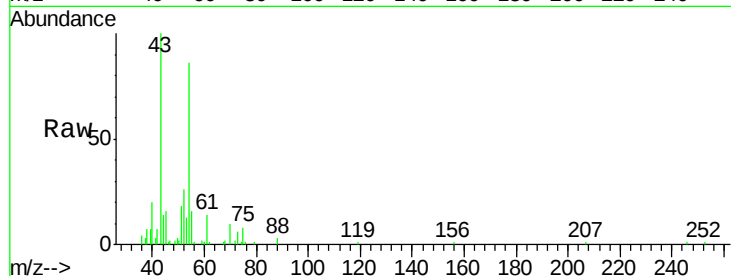
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	43	Resp:	20552
Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.6	14.4
70	8.8	6.5	9.7

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 4.368 ug/l

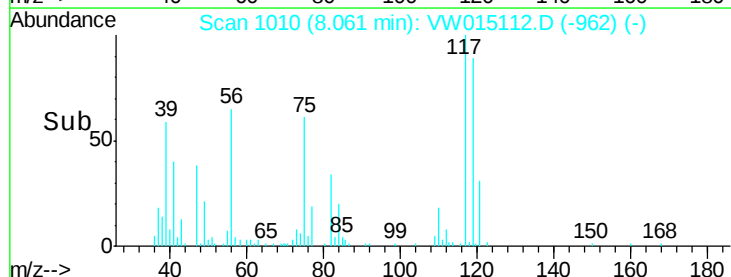
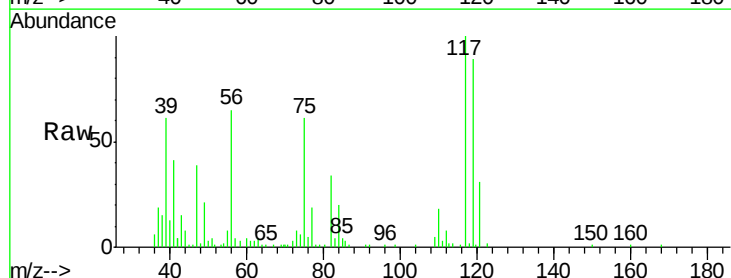
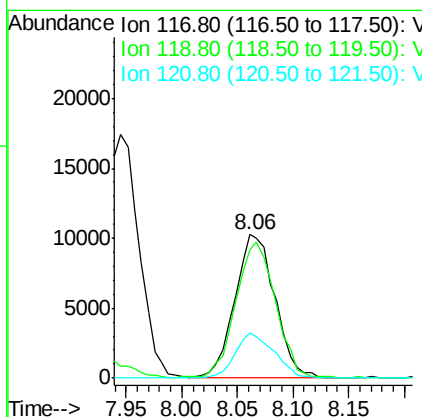
RT: 8.06 min Scan# 1010

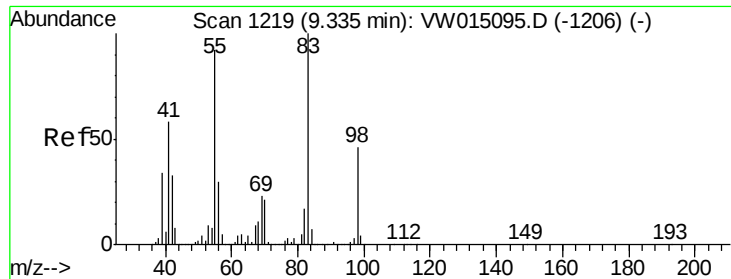
Delta R.T. -0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	117	Resp:	25784
Ion	Ratio	Lower	Upper
117	100		
119	89.1	75.8	113.8
121	31.2	24.5	36.7





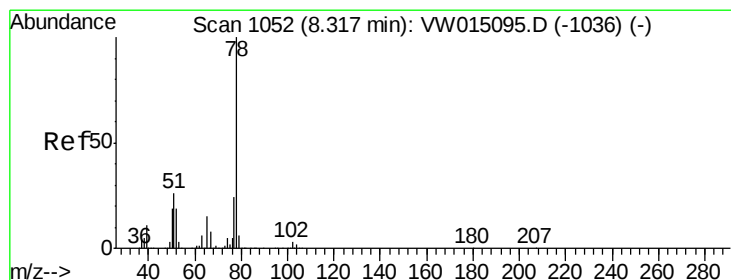
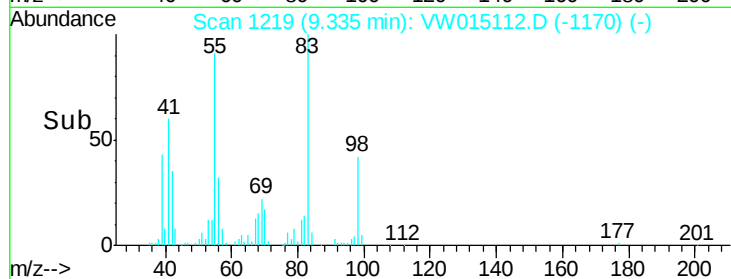
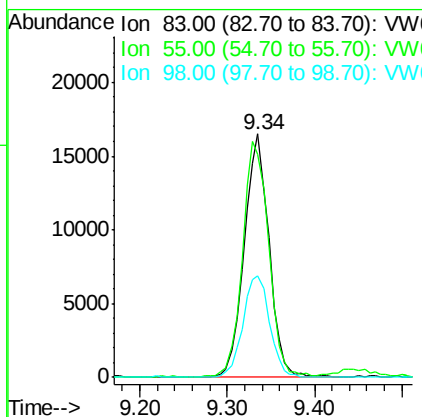
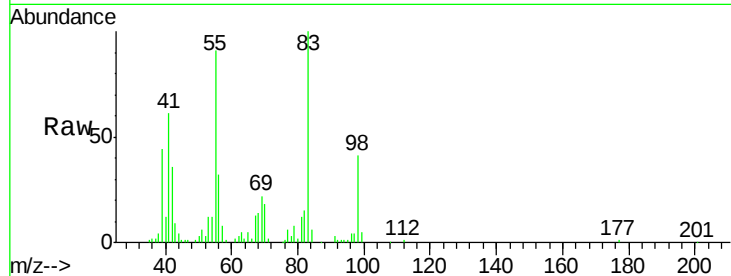
#39
Methvlcvclohexane
Concen: 3.906 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	91.1	73.5	110.3
98	41.5	37.2	55.8

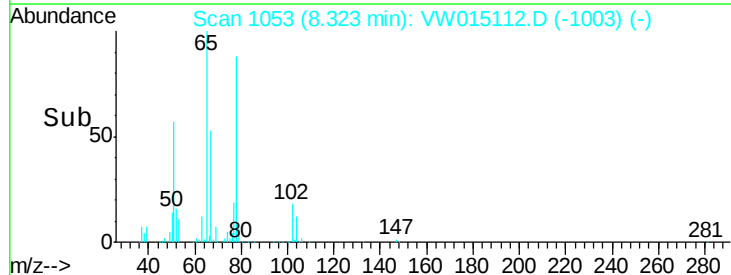
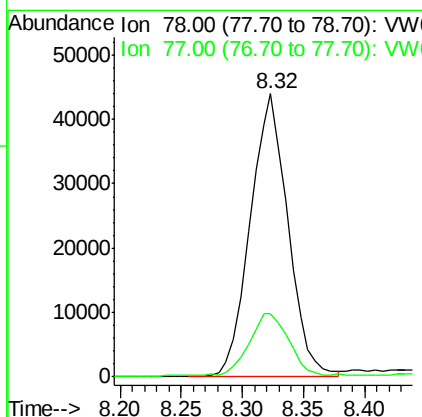
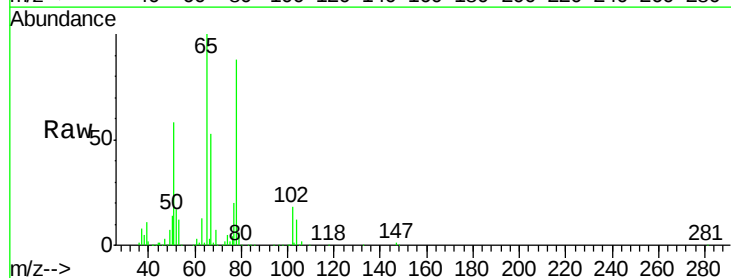
Manual Integrations
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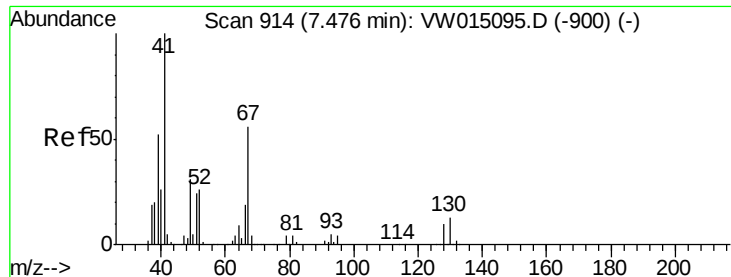
MMDadoda
3/11/2020 3:22:14 PM



#40
Benzene
Concen: 4.692 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.5	19.5	29.3





#41

Methacrylonitrile

Concen: 4.531 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

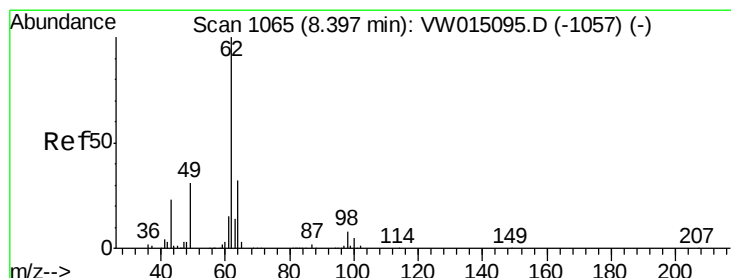
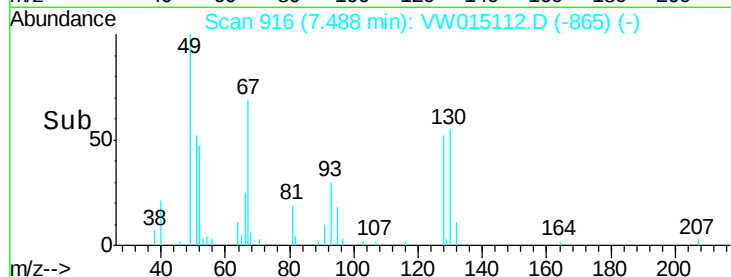
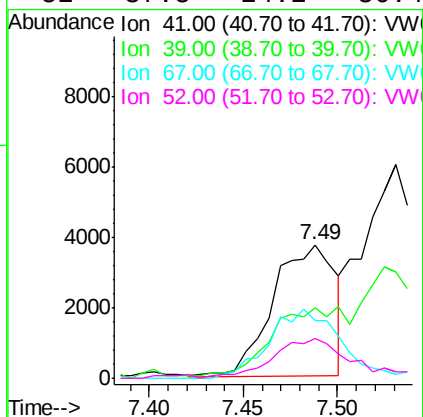
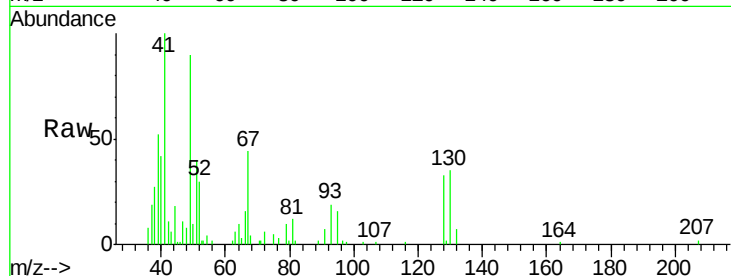
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion	41	Resp:	8660
Ion Ratio	Lower	Upper	
41	100		
39	45.3	49.0	73.4#
67	58.6	50.4	75.6
52	37.8	24.2	36.4#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 4.993 ug/l

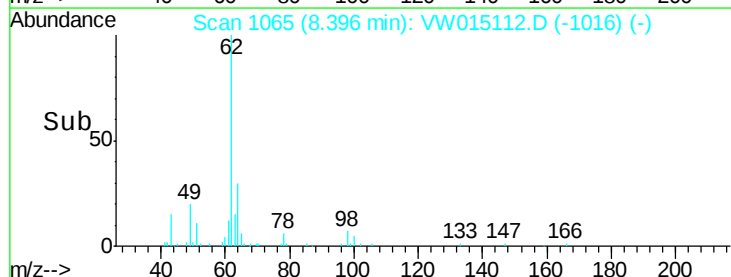
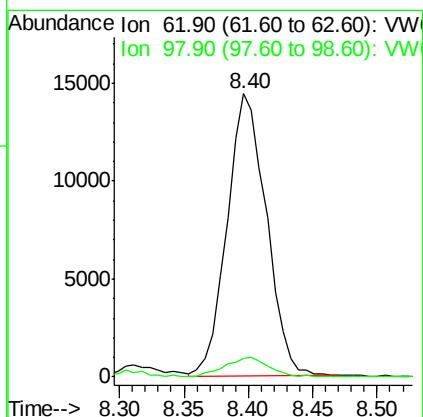
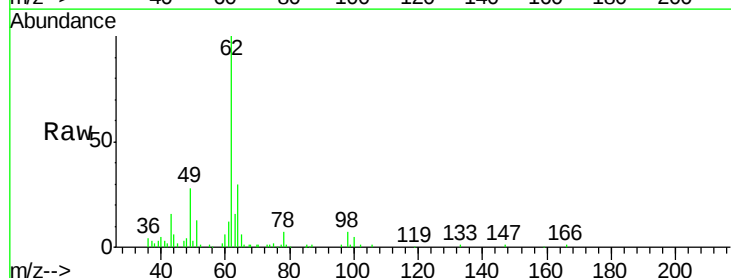
RT: 8.40 min Scan# 1065

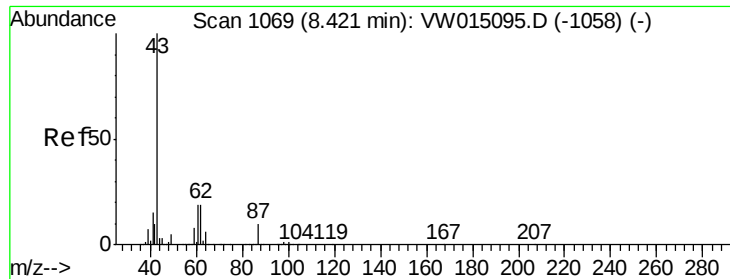
Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion	62	Resp:	30650
Ion Ratio	Lower	Upper	
62	100		
98	7.6	0.0	16.0





#43

Isopropyl Acetate

Concen: 5.024 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

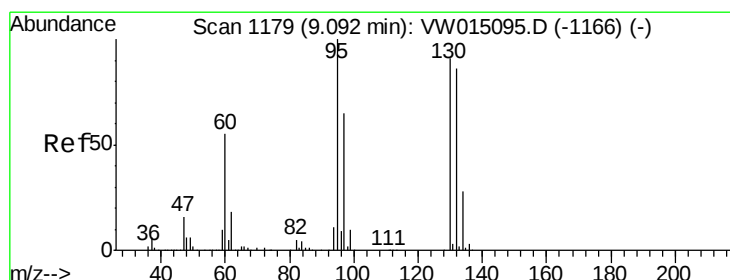
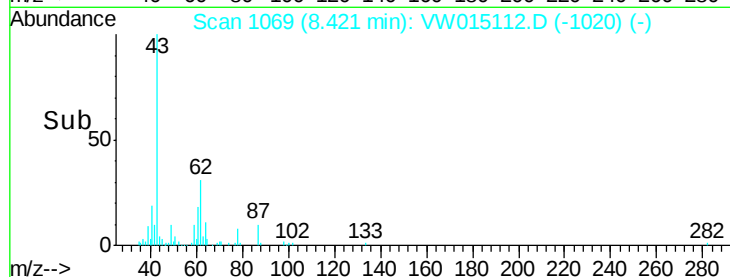
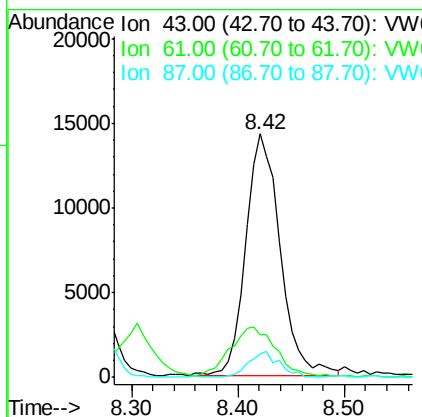
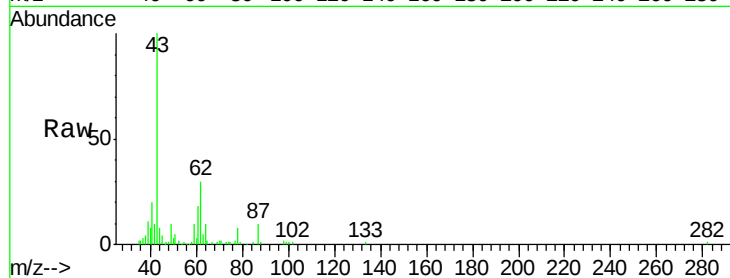
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	43	Resp:	32546
Ion	Ratio	Lower	Upper
43	100		
61	28.5	21.8	32.8
87	9.5	8.0	12.0

Manual Integrations
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#44

Trichloroethene

Concen: 4.283 ug/l

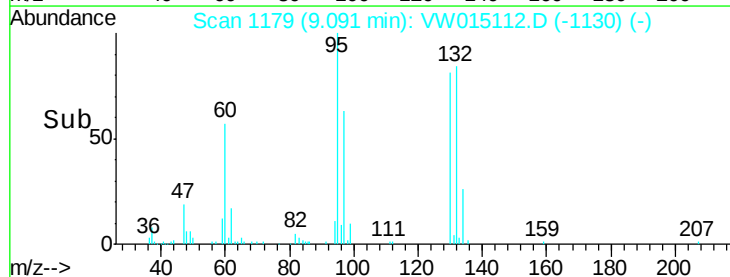
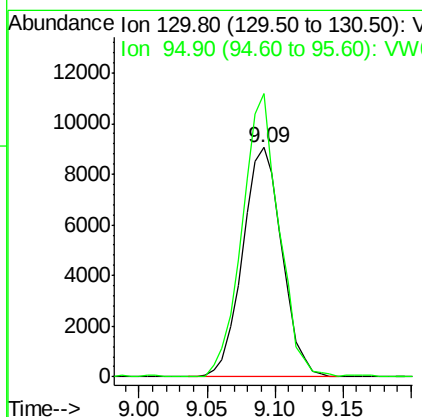
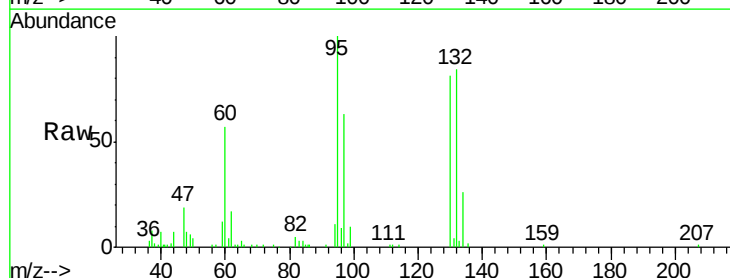
RT: 9.09 min Scan# 1179

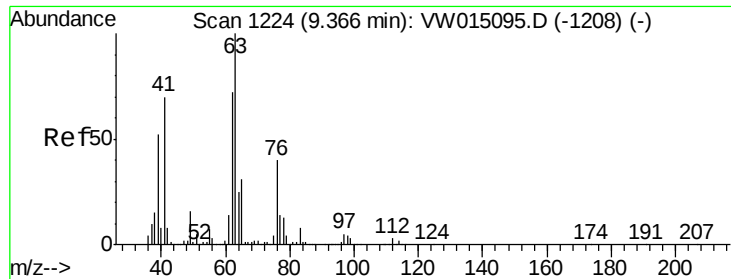
Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	130	Resp:	18372
Ion	Ratio	Lower	Upper
130	100		
95	123.4	0.0	219.8





#45

1,2-Dichloropropane

Concen: 4.420 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 63 Resp: 23985

Ion Ratio Lower Upper

63 100

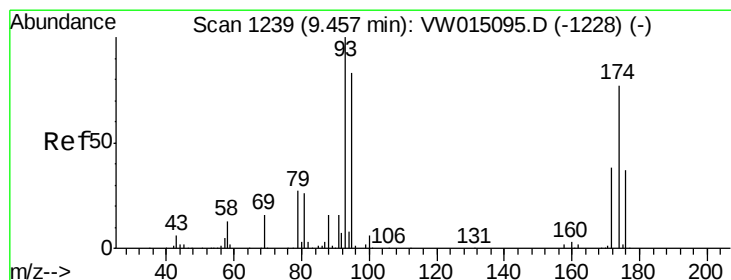
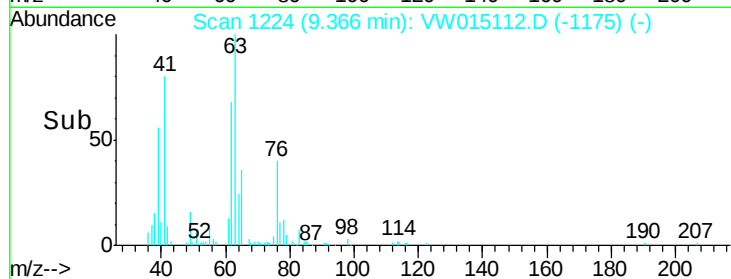
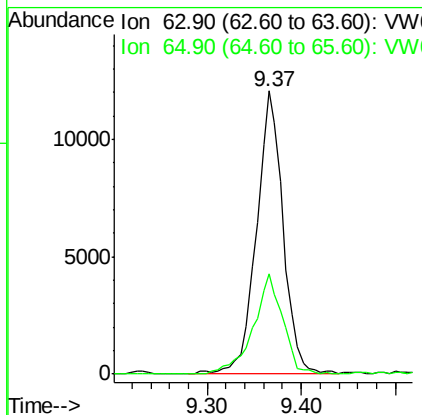
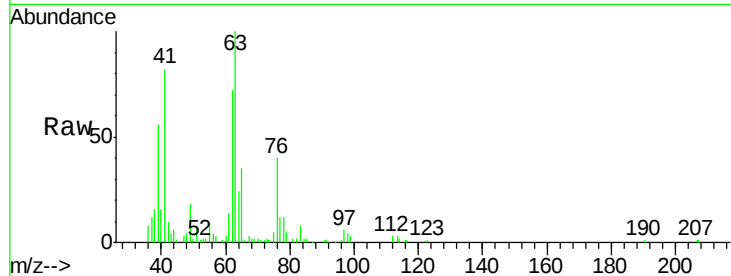
65 35.4 24.6 36.8

Manual Integrations

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#46

Dibromomethane

Concen: 4.939 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

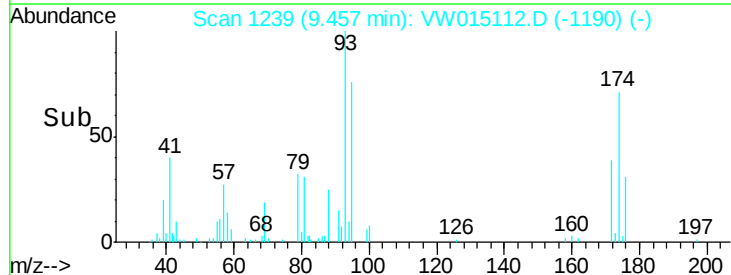
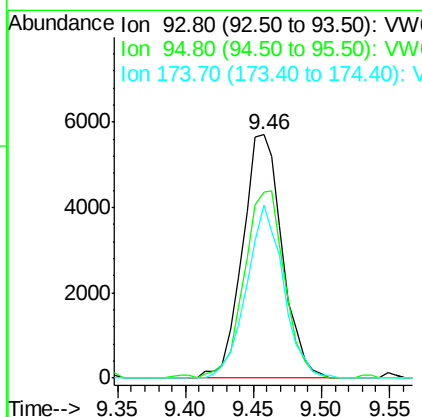
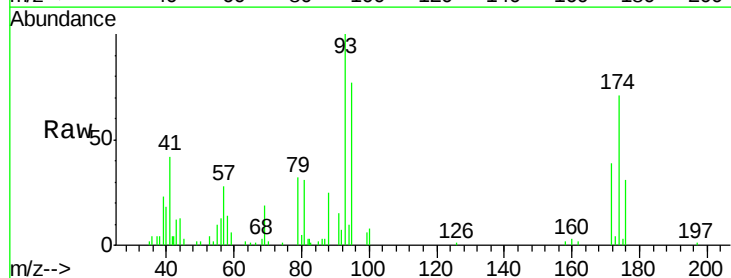
Tgt Ion: 93 Resp: 11655

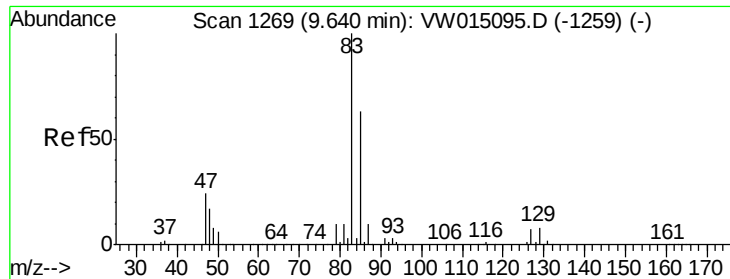
Ion Ratio Lower Upper

93 100

95 78.2 66.6 100.0

174 66.4 60.6 91.0





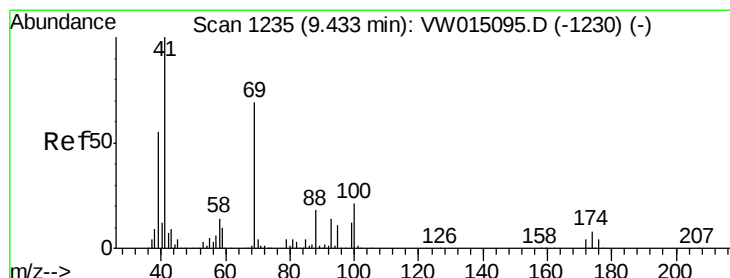
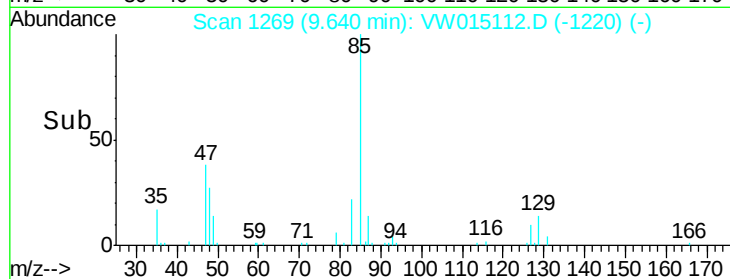
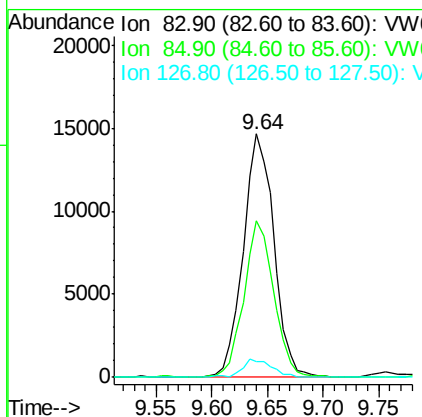
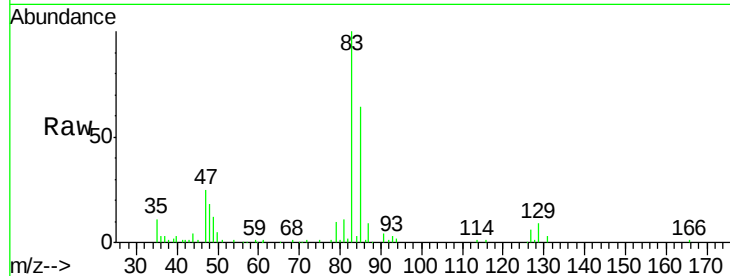
#47
Bromodichloromethane
Concen: 4.460 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Resp	Lower	Upper
83	100	28094		
85	64.4		50.7	76.1
127	6.5		5.5	8.3

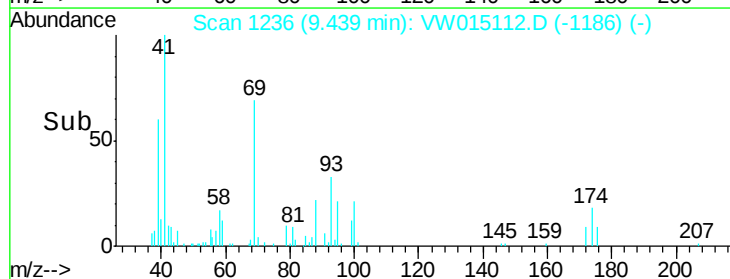
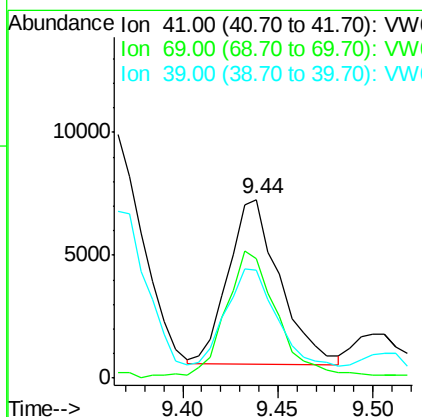
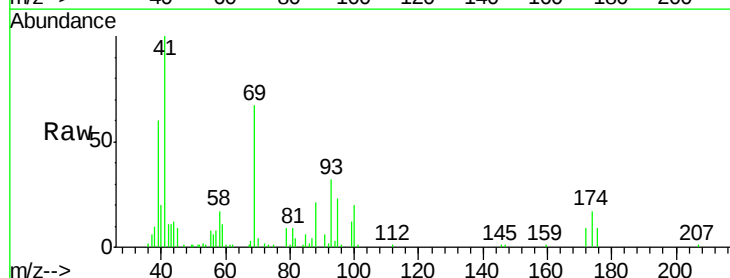
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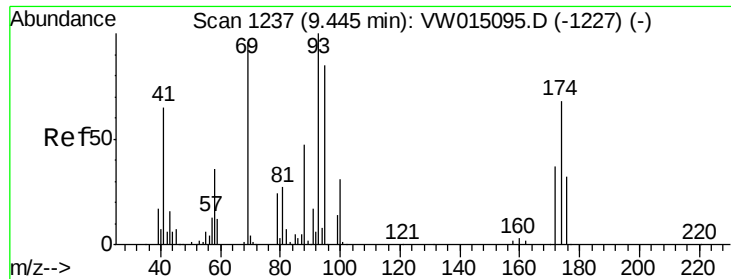
MMDadoda
3/11/2020 3:22:14 PM



#48
Methyl methacrylate
Concen: 4.207 ug/l m
RT: 9.44 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	12579		
69	74.8		58.7	88.1
39	60.5		45.1	67.7





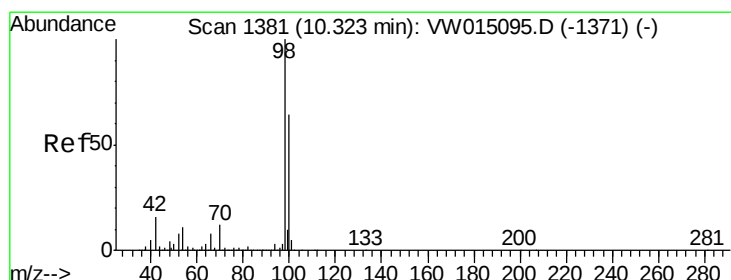
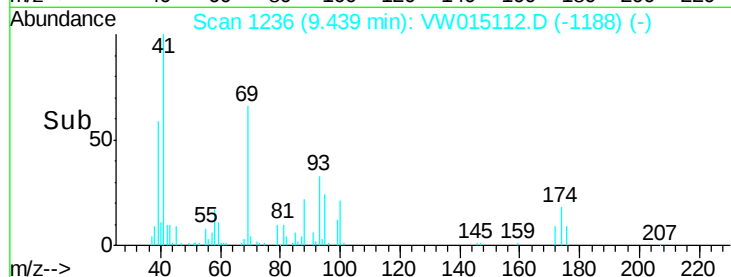
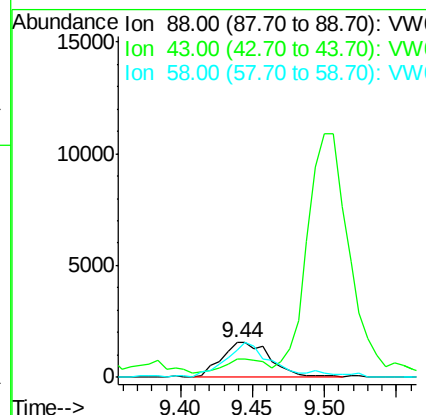
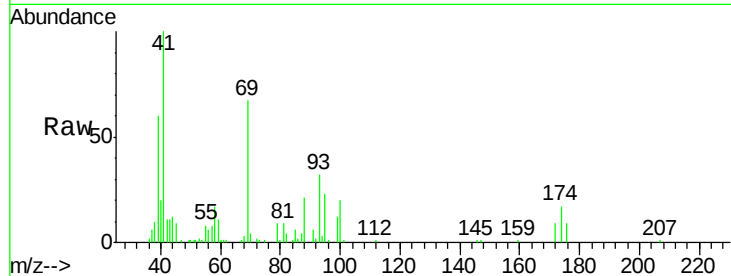
#49
1,4-Dioxane
Concen: 102.418 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. -0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.8	35.8	53.8#
58	90.1	64.0	96.0

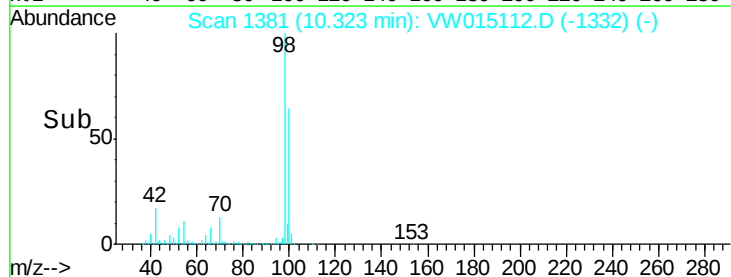
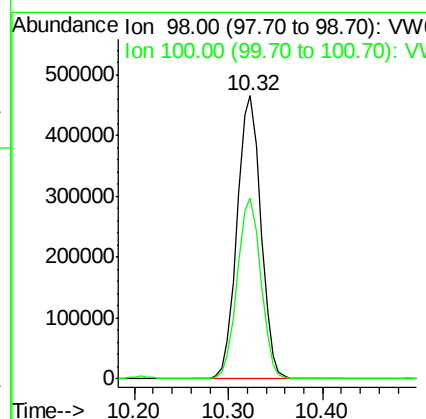
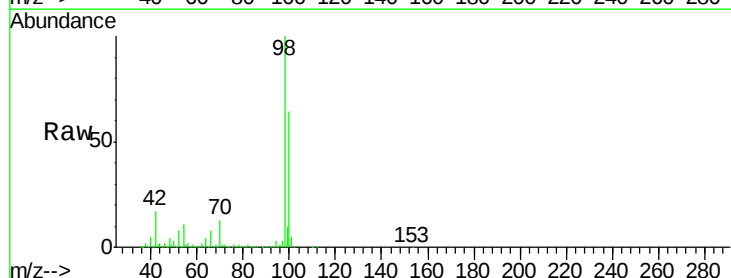
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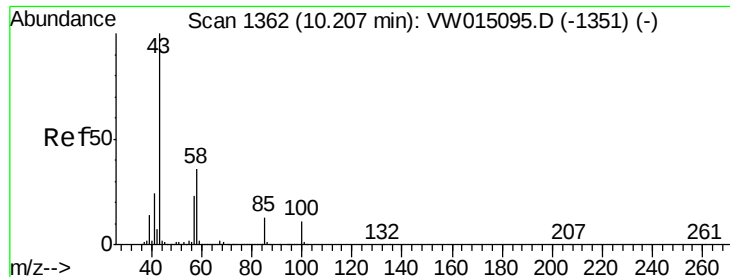
MMDadoda
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#50
Toluene-d8
Concen: 52.175 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 23.233 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 83139

Ion Ratio Lower Upper

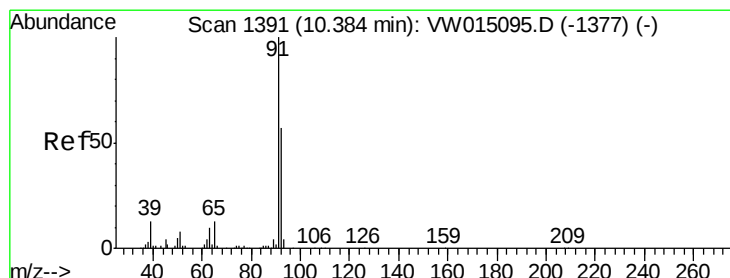
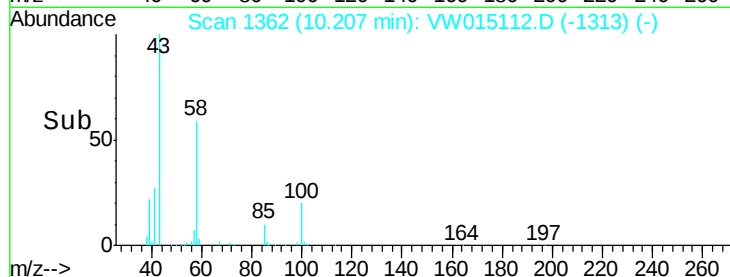
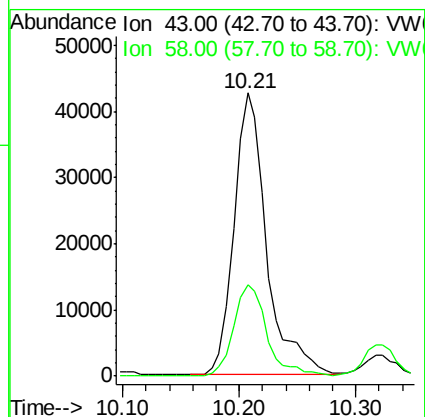
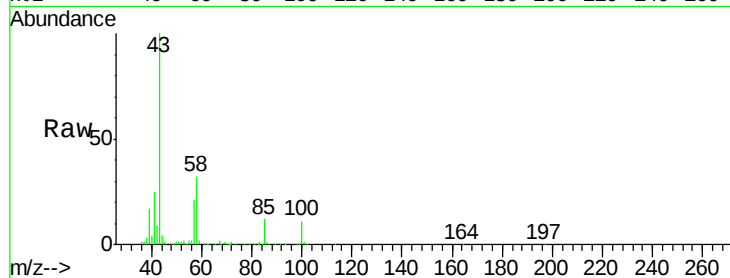
43 100

58 33.1 28.0 42.0

Manual Integrations
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3/11/2020 3:22:14 PM



#52

Toluene

Concen: 4.413 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW015112.D

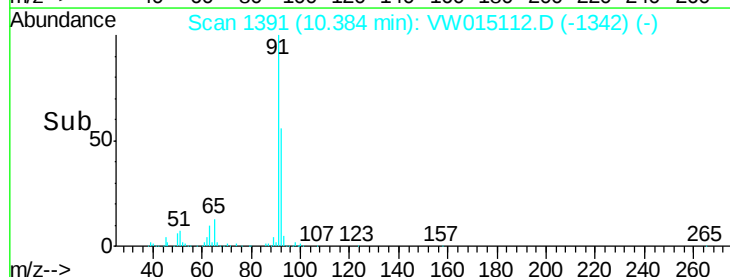
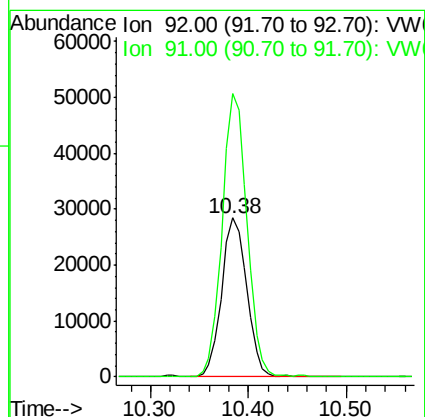
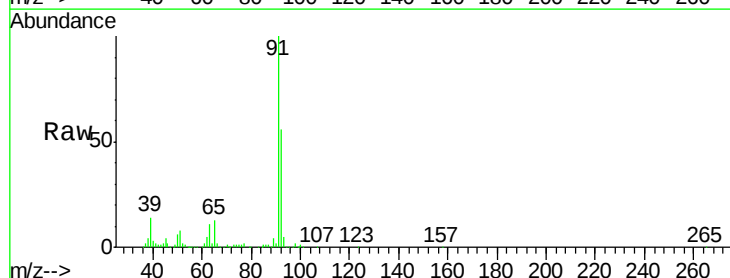
Acq: 10 Mar 2020 14:35

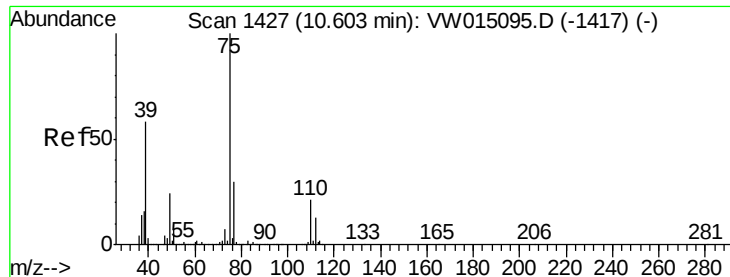
Tgt Ion: 92 Resp: 51084

Ion Ratio Lower Upper

92 100

91 173.1 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 4.315 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 75 Resp: 26745

Ion Ratio Lower Upper

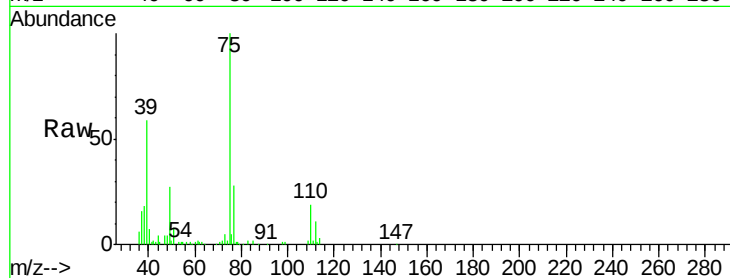
75 100

77 27.4 24.4 36.6

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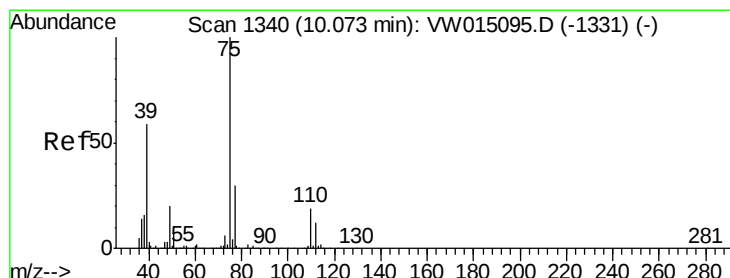
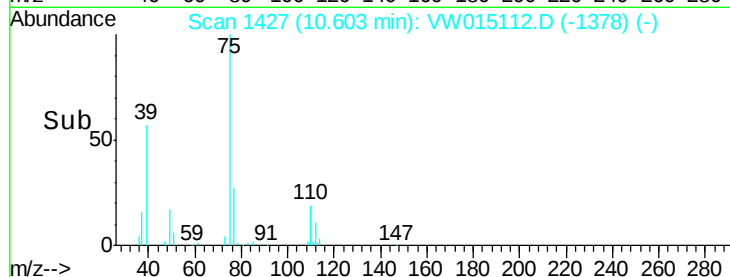
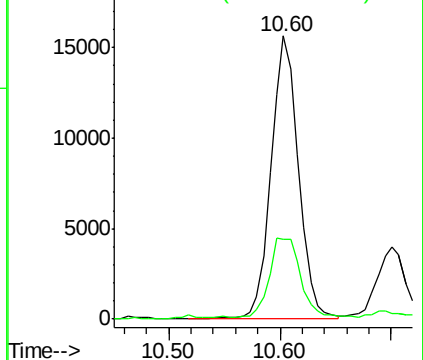
MMDadoda

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Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW



#54

cis-1,3-Dichloropropene

Concen: 4.171 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

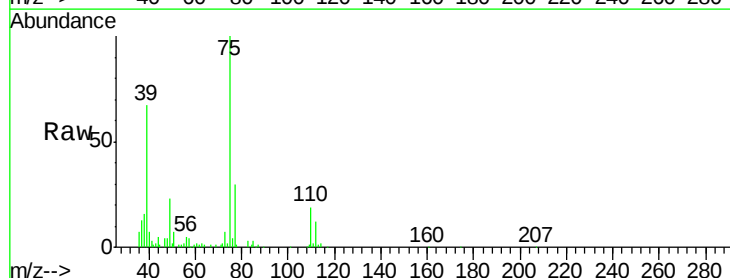
Tgt Ion: 75 Resp: 31491

Ion Ratio Lower Upper

75 100

77 30.4 24.3 36.5

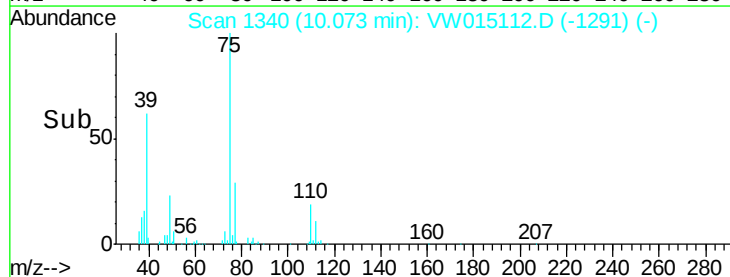
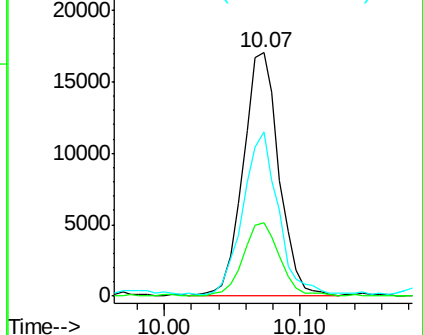
39 66.4 47.0 70.6

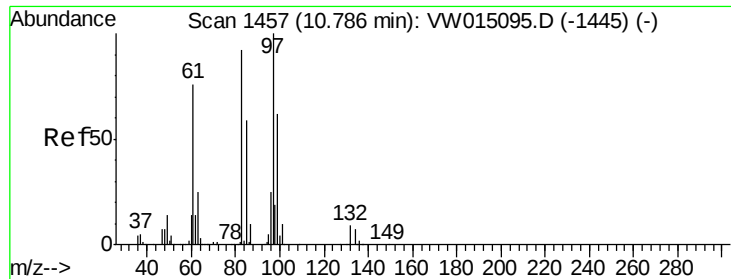


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW





#55

1,1,2-Trichloroethane

Concen: 4.337 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

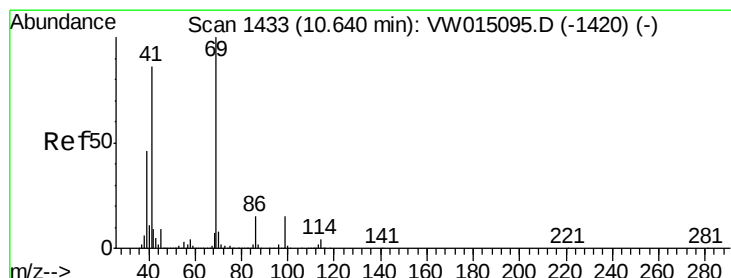
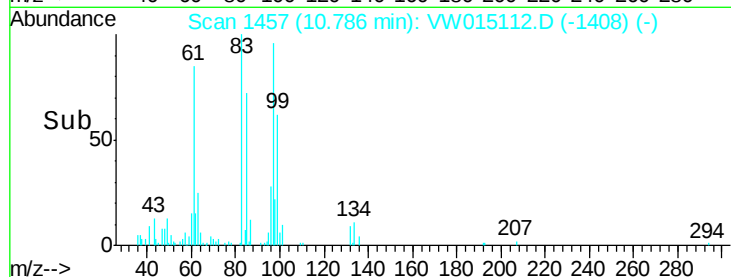
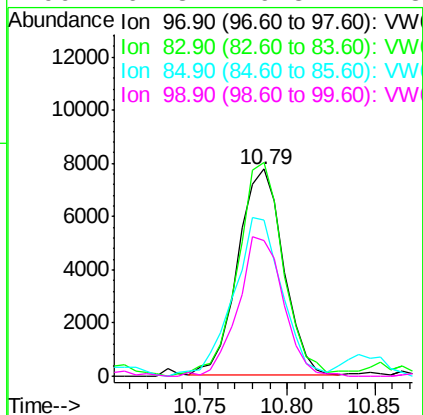
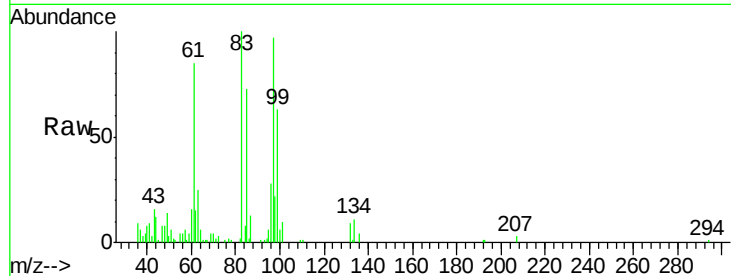
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	97	Resp:	14021
Ion	Ratio	Lower	Upper
97	100		
83	102.3	74.0	111.0
85	73.3	46.9	70.3
99	64.3	49.8	74.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 4.114 ug/l

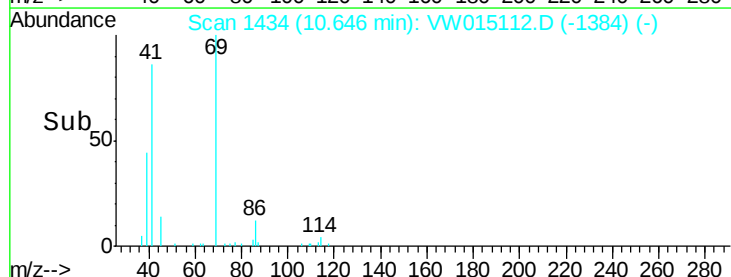
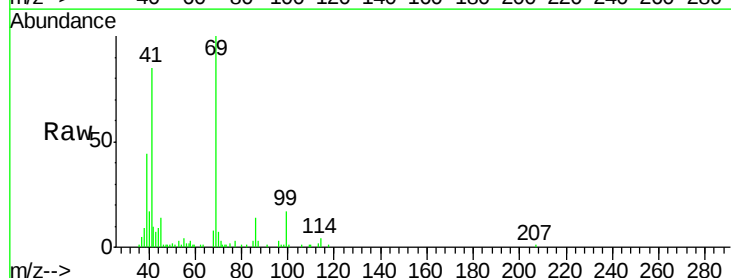
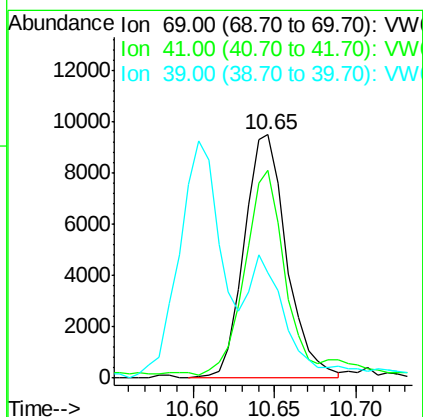
RT: 10.65 min Scan# 1434

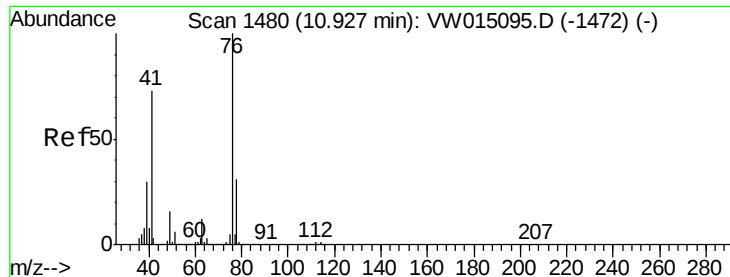
Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	69	Resp:	17164
Ion	Ratio	Lower	Upper
69	100		
41	78.3	65.8	98.6
39	41.0	31.2	46.8





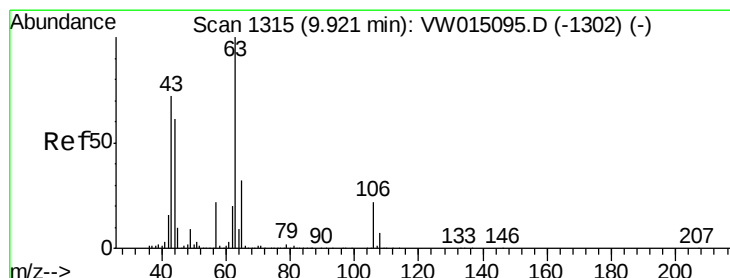
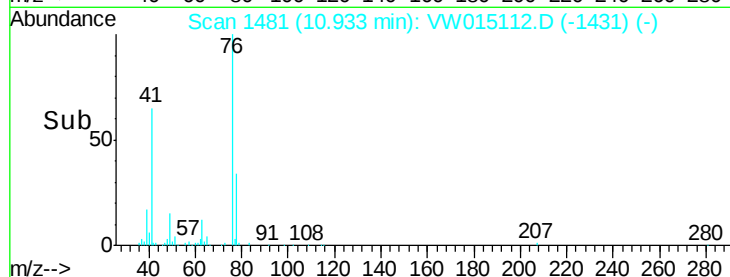
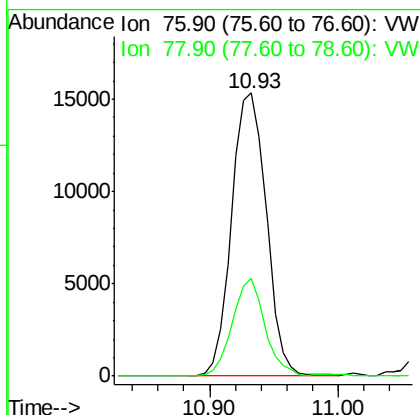
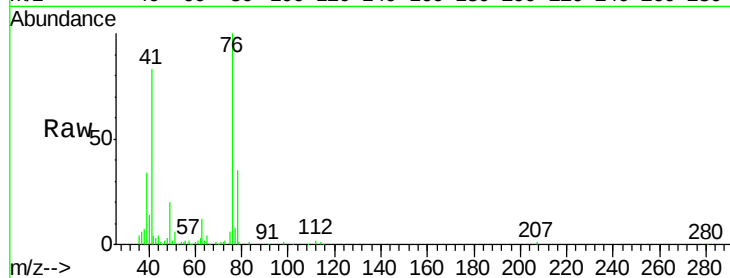
#57
 1,3-Dichloropropane
 Concen: 4.678 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.01 min
 Lab File: VW015112.D
 Acq: 10 Mar 2020 14:35

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

Tot Ion: 76 Resp: 28793
 Ion Ratio Lower Upper
 76 100
 78 32.6 25.3 37.9

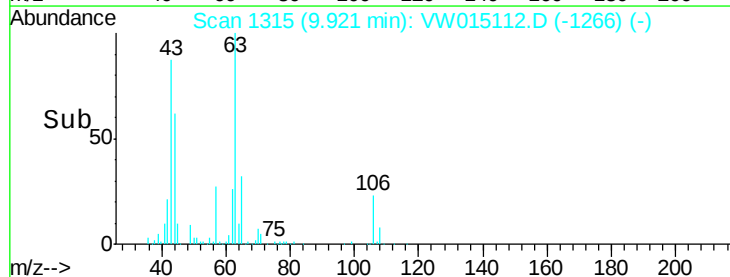
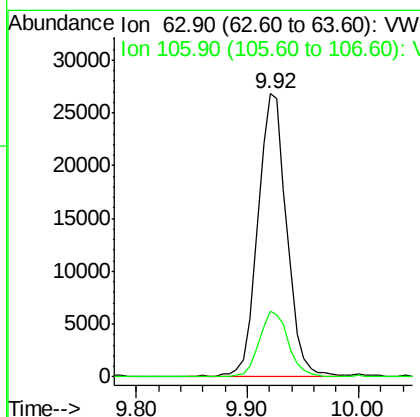
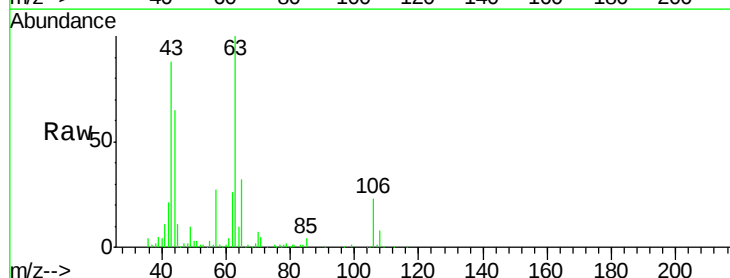
Manual Integrations
 APPROVED

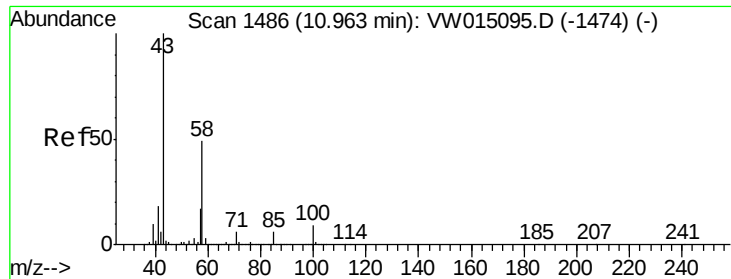
MMDadoda
 3/11/2020 3:22:14 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 19.819 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW015112.D
 Acq: 10 Mar 2020 14:35

Tgt Ion: 63 Resp: 48514
 Ion Ratio Lower Upper
 63 100
 106 23.1 18.0 27.0





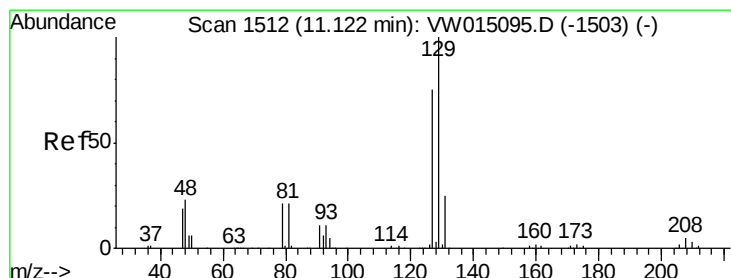
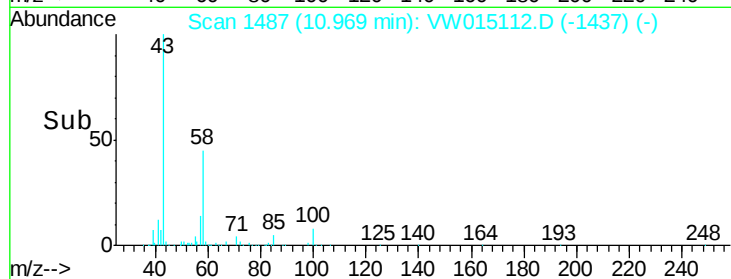
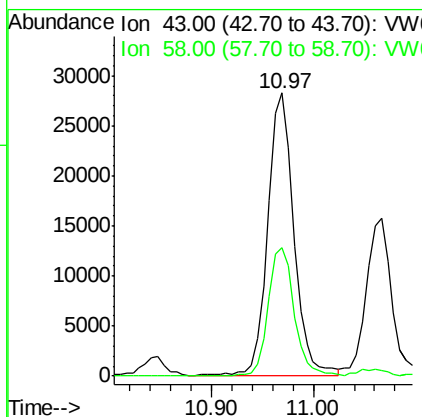
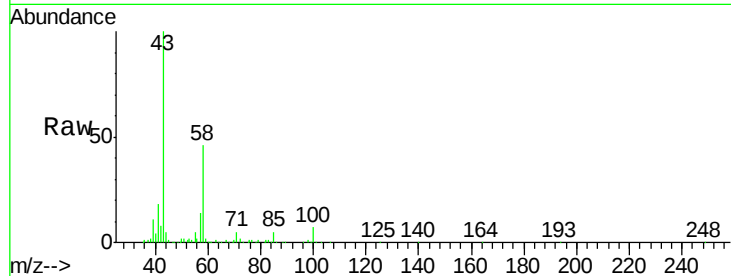
#59
2-Hexanone
Concen: 22.622 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.2	24.6	73.8

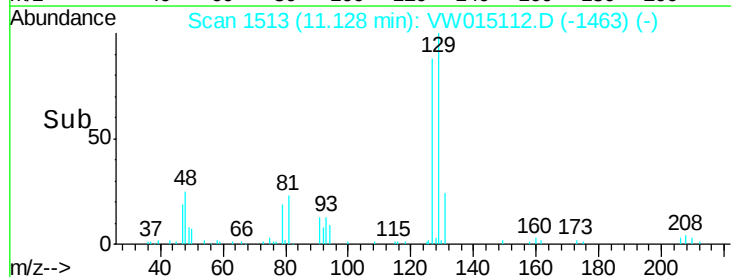
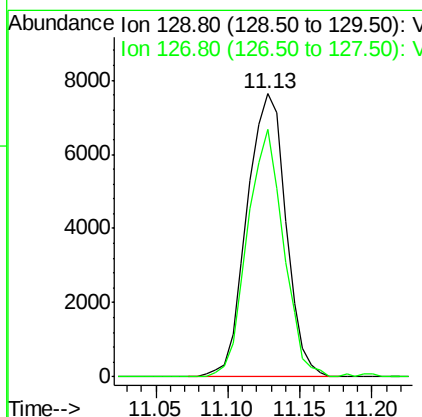
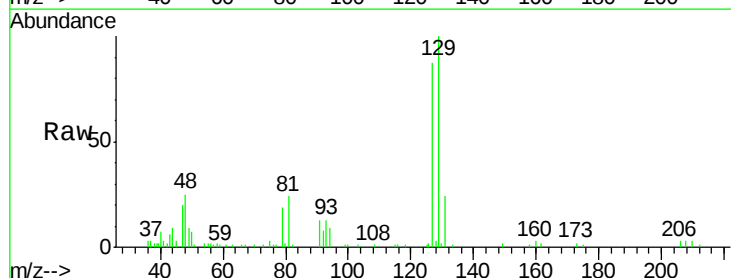
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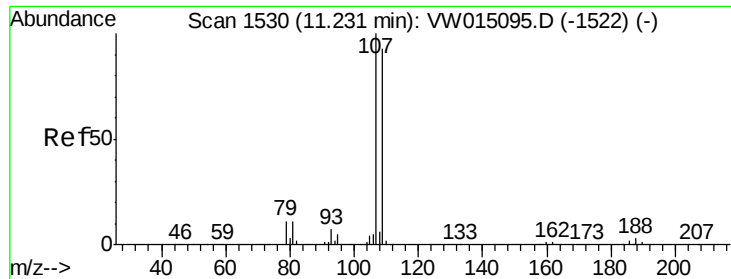
MMDadoda
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#60
Dibromochloromethane
Concen: 4.274 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.2	38.7	116.1





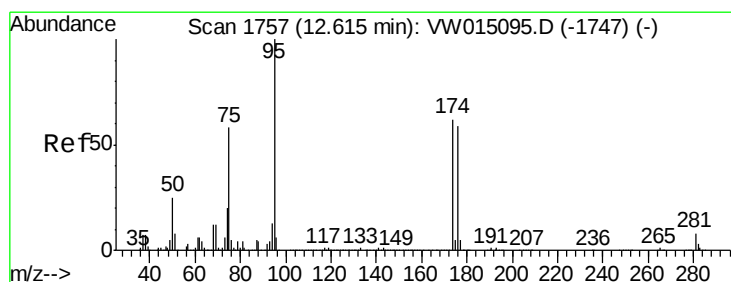
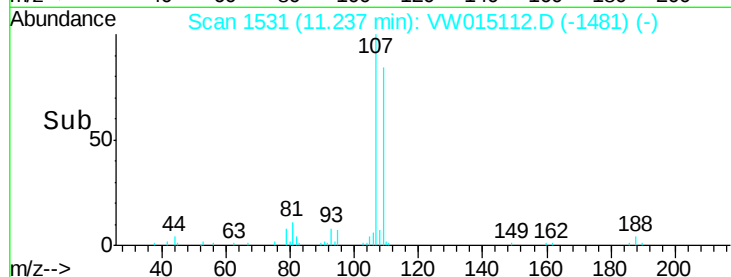
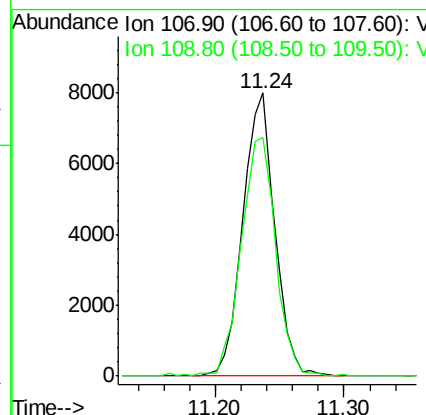
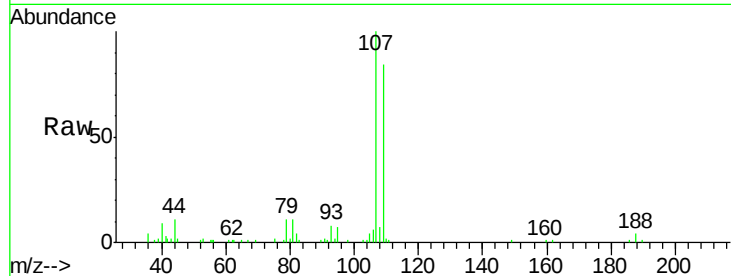
#61
 1,2-Dibromoethane
 Concen: 4.768 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW015112.D
 Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.9	75.3	112.9

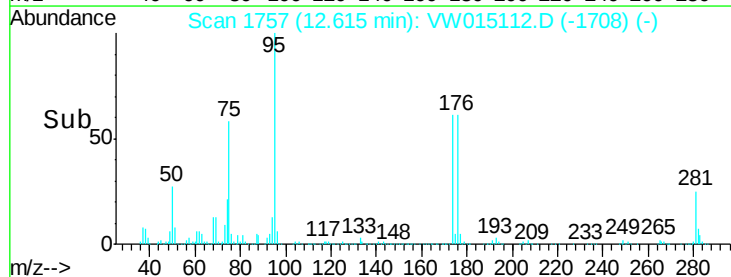
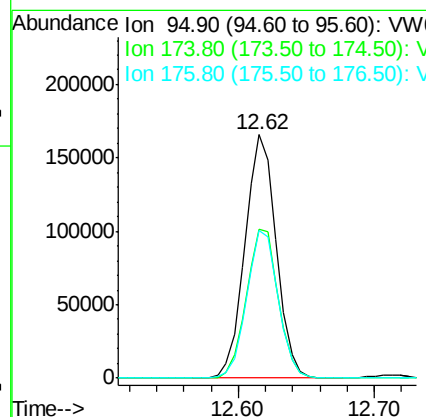
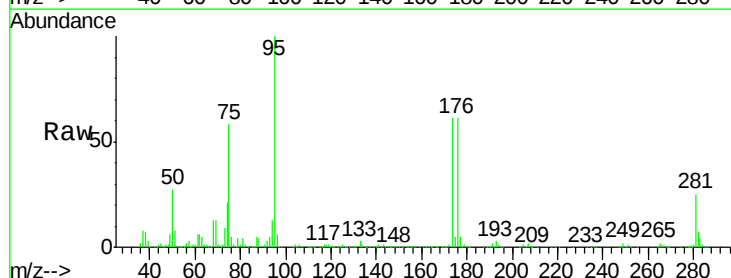
Manual Integrations
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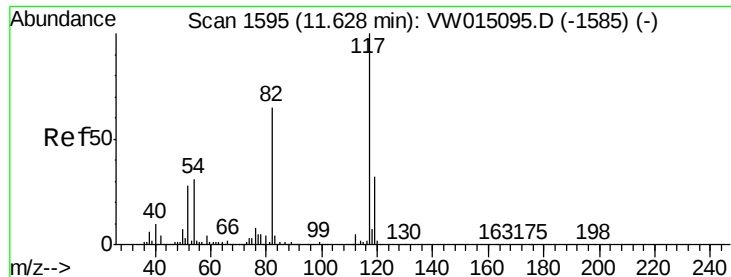
MMDadoda
 3/11/2020 3:22:14 PM



#62
 4-Bromofluorobenzene
 Concen: 50.984 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW015112.D
 Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
95	100		
174	62.5	0.0	126.8
176	61.1	0.0	121.6





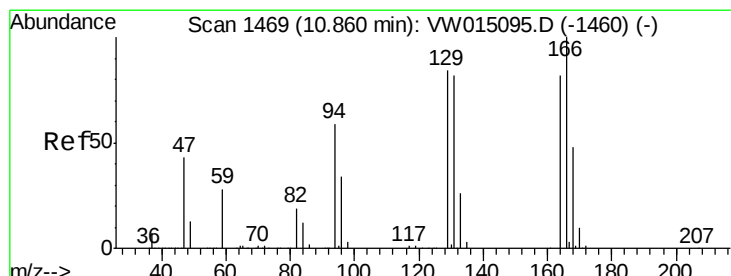
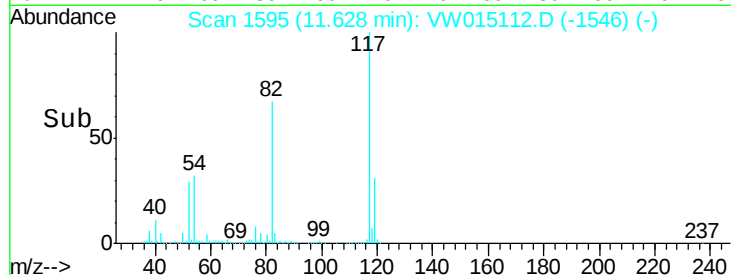
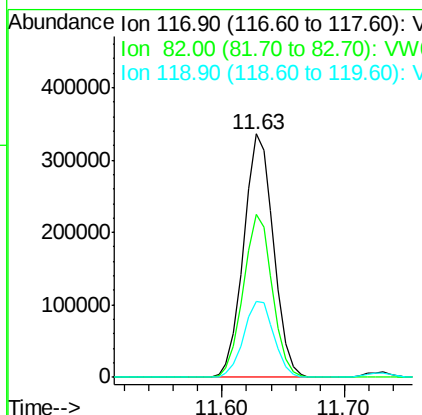
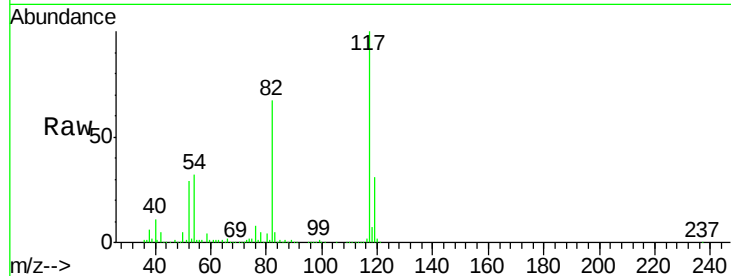
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	568323		
82	66.9	52.2	78.2	
119	31.2	25.4	38.0	

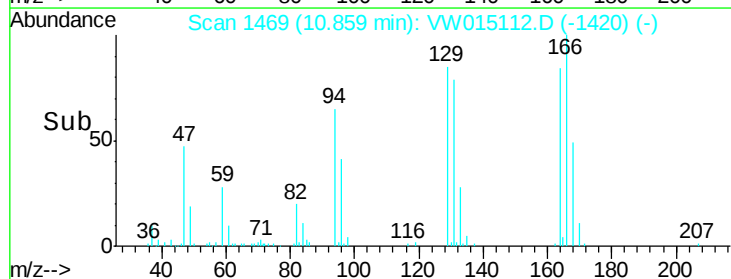
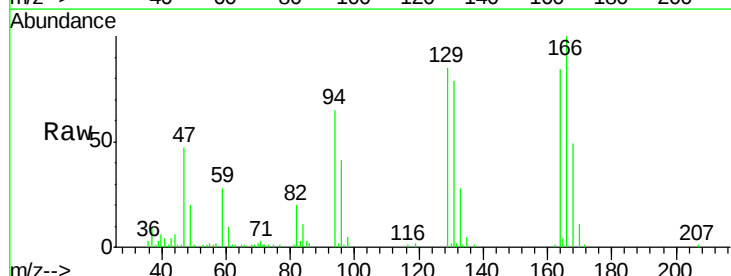
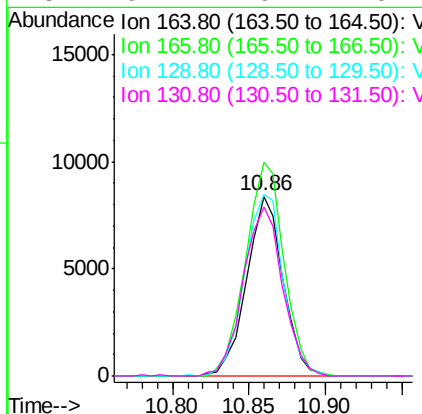
Manual Integrations
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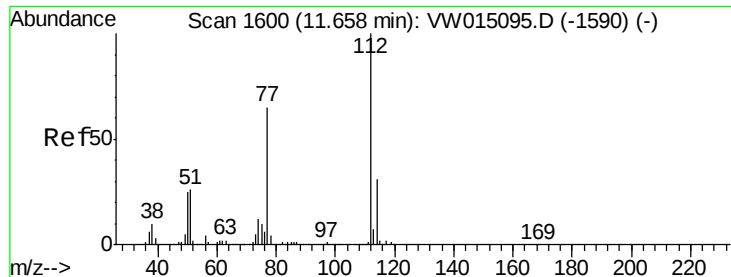
MMDadoda
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#64
Tetrachloroethene
Concen: 4.233 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	13882		
166	118.8	97.0	145.6	
129	101.3	81.2	121.8	
131	94.1	79.4	119.2	





#65

Chlorobenzene

Concen: 4.322 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:112 Resp: 49299

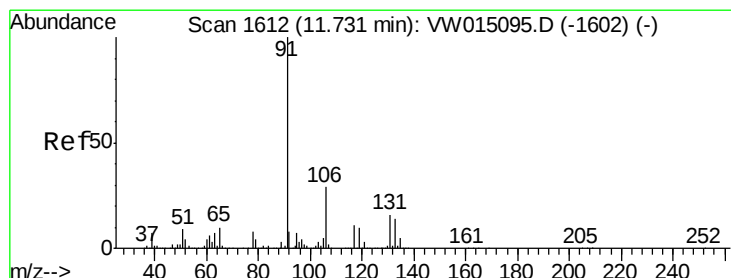
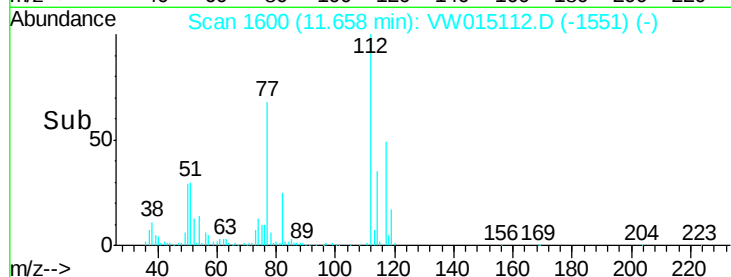
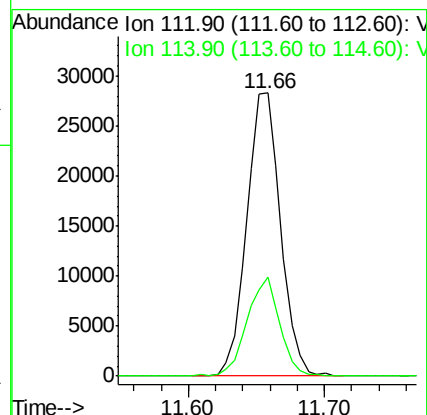
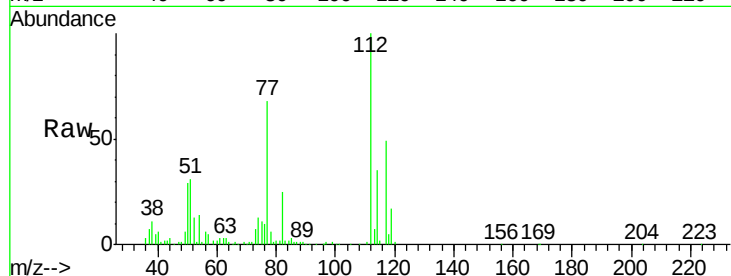
Ion Ratio Lower Upper

112 100

114 35.2 25.0 37.6

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 4.351 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

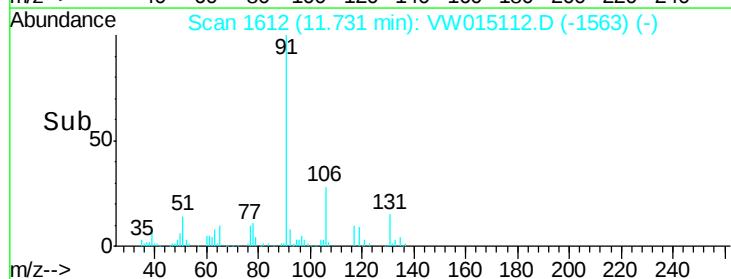
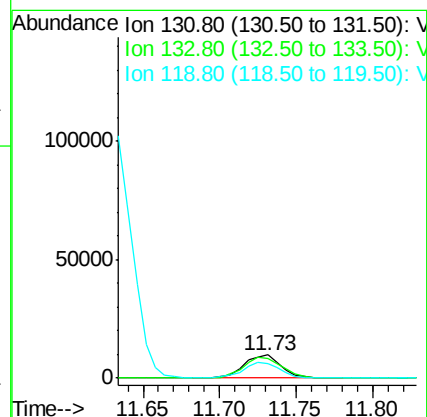
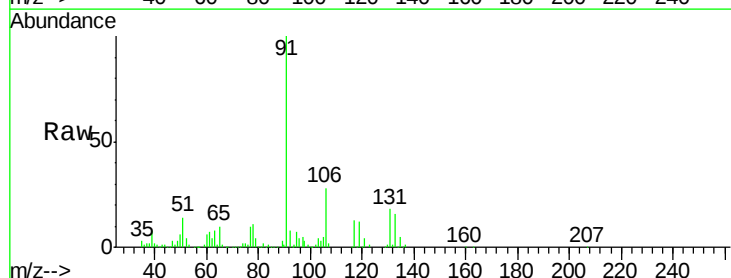
Tgt Ion:131 Resp: 16526

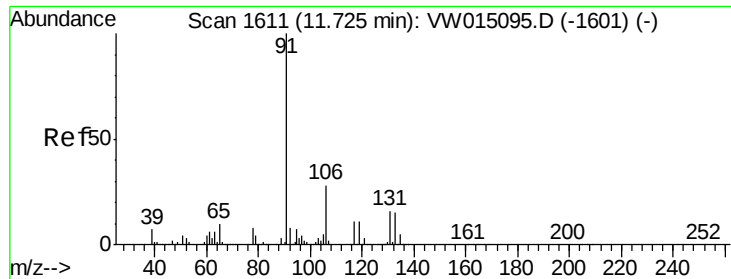
Ion Ratio Lower Upper

131 100

133 94.1 47.3 141.8

119 67.0 34.0 101.8





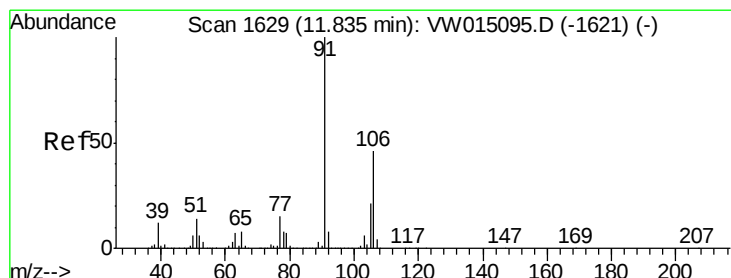
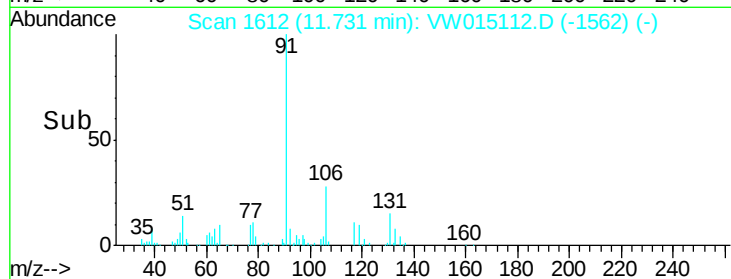
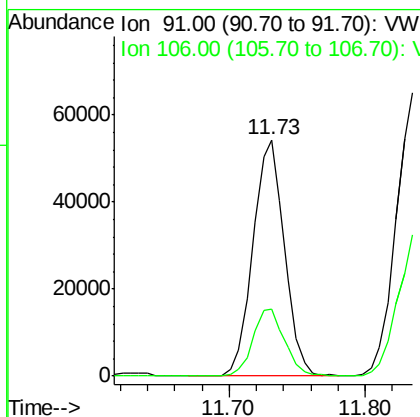
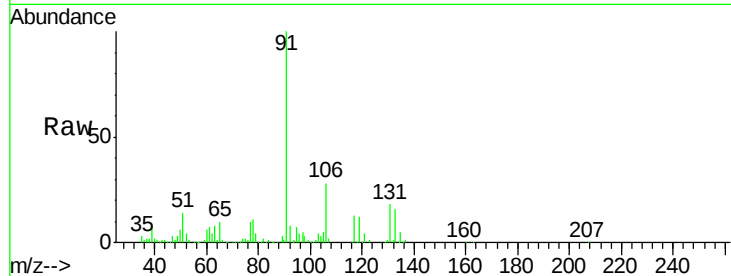
#67
Ethyl Benzene
Concen: 3.965 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.01 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion: 91 Resp: 88017
Ion Ratio Lower Upper
91 100
106 28.4 22.8 34.2

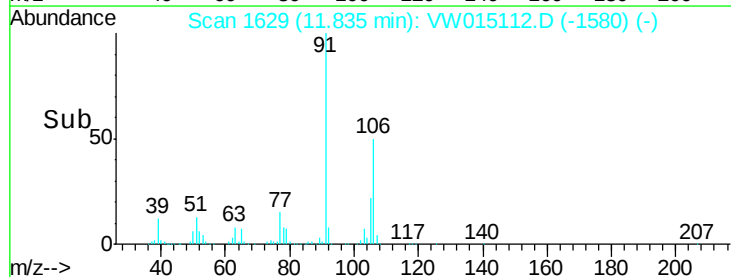
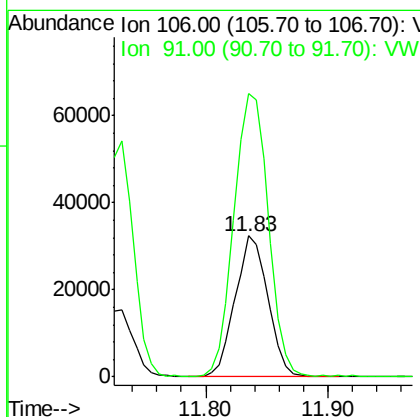
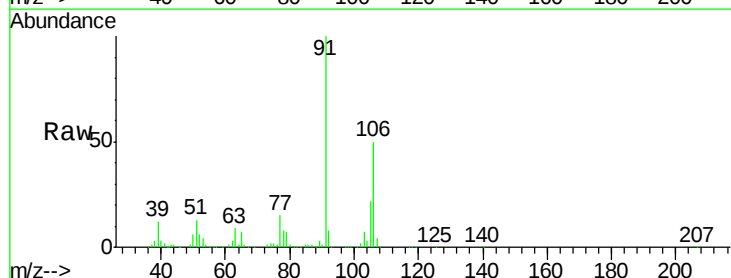
Manual Integrations
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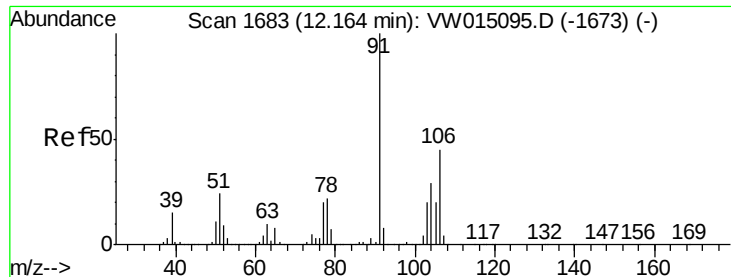
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#68
m/p-Xylenes
Concen: 7.689 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion: 106 Resp: 60334
Ion Ratio Lower Upper
106 100
91 209.4 172.3 258.5





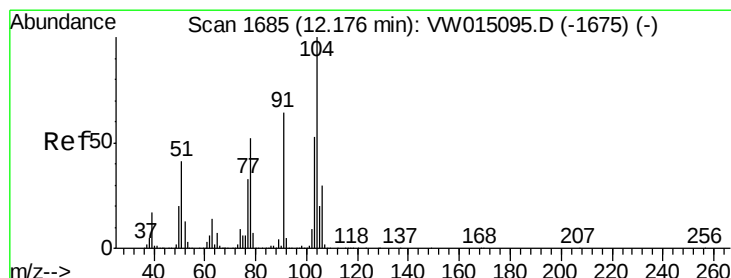
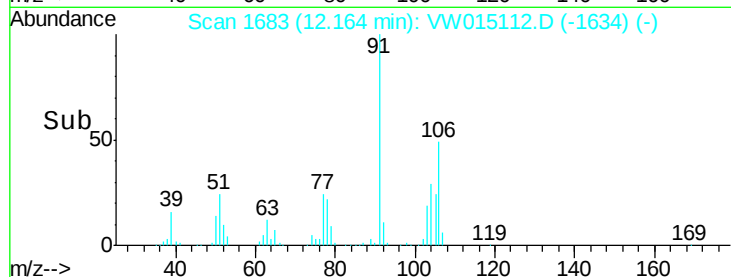
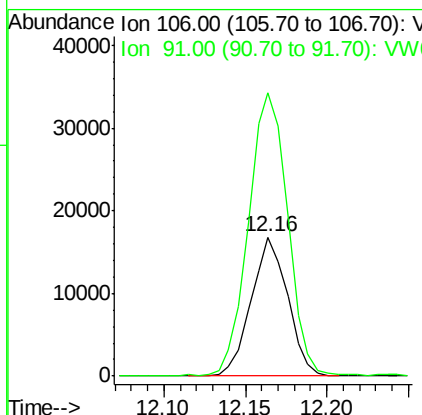
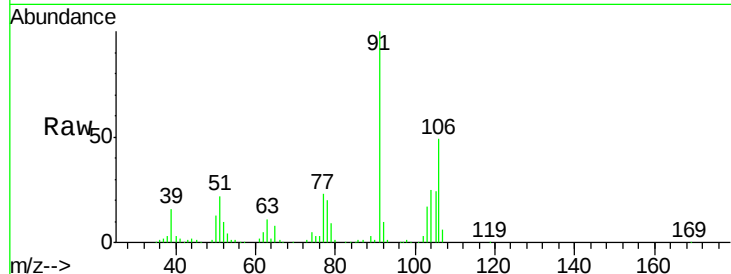
#69
o-Xylene
Concen: 3.717 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion:106 Resp: 26274
Ion Ratio Lower Upper
106 100
91 219.5 112.6 337.8

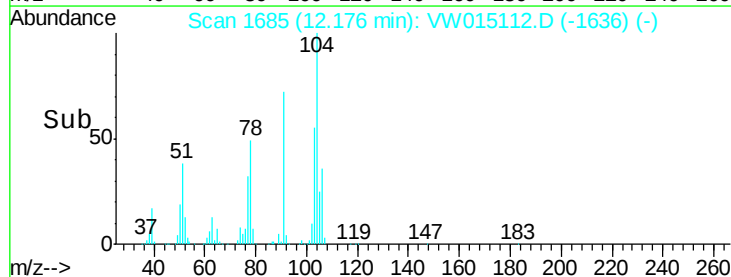
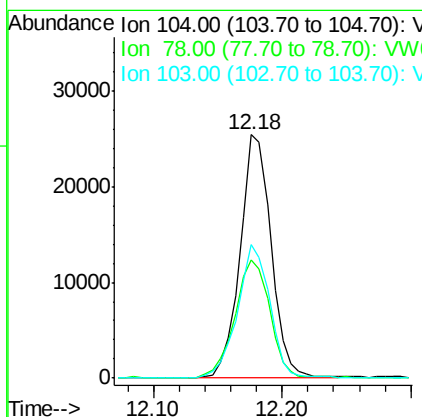
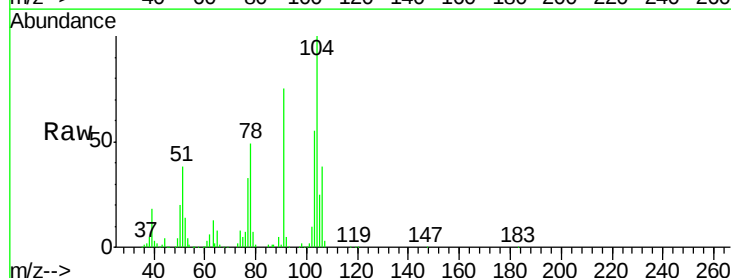
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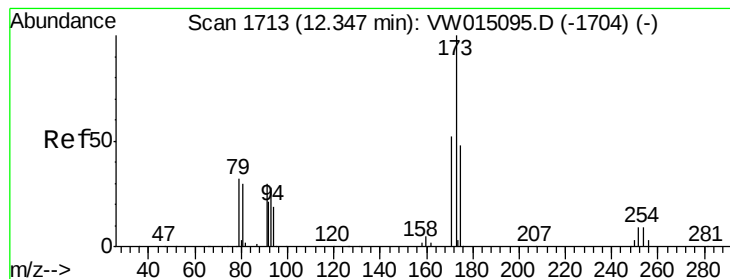
MMDadoda
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#70
Styrene
Concen: 3.500 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion:104 Resp: 42392
Ion Ratio Lower Upper
104 100
78 55.2 44.7 67.1
103 57.5 44.7 67.1





#71

Bromoform

Concen: 4.308 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

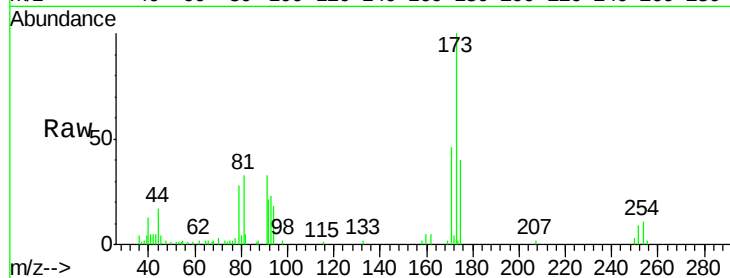
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.2	23.8	71.4
254	0.0	0.1	0.1

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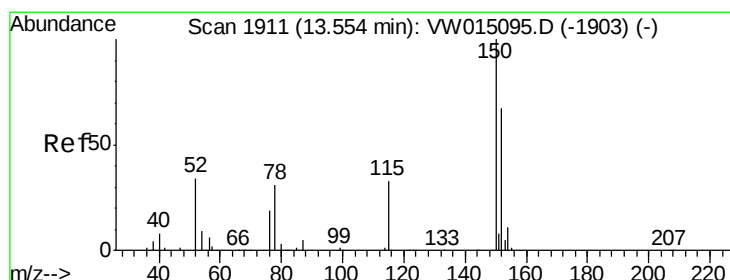
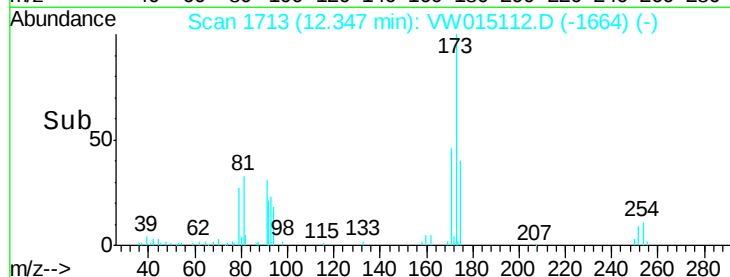
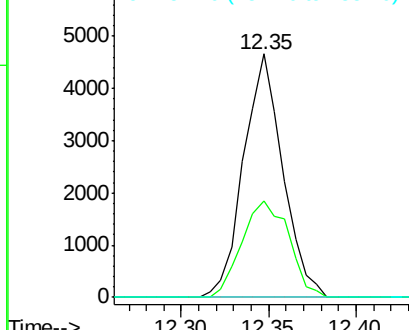


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

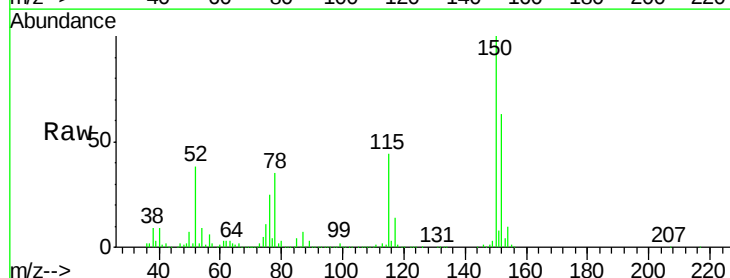
RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.8	33.3	99.9
150	158.9	0.0	351.2

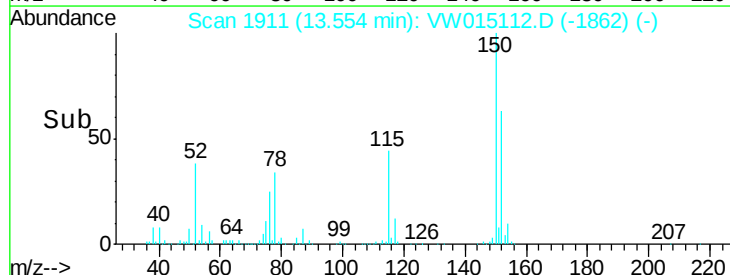
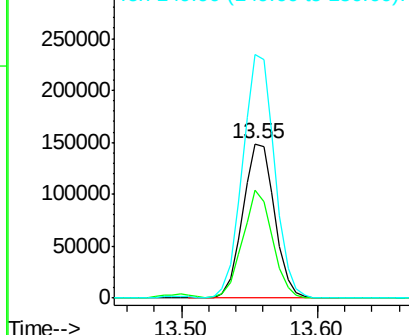


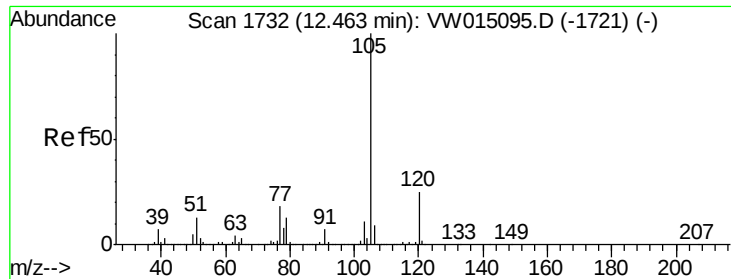
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 3.807 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:105 Resp: 70500

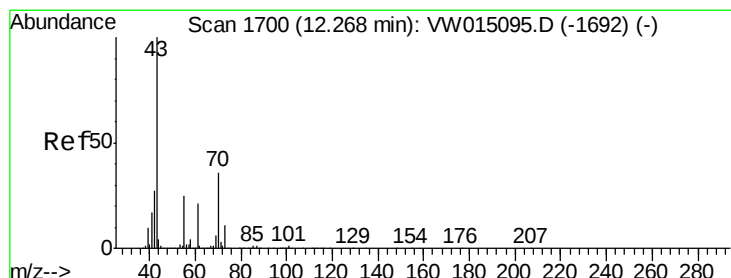
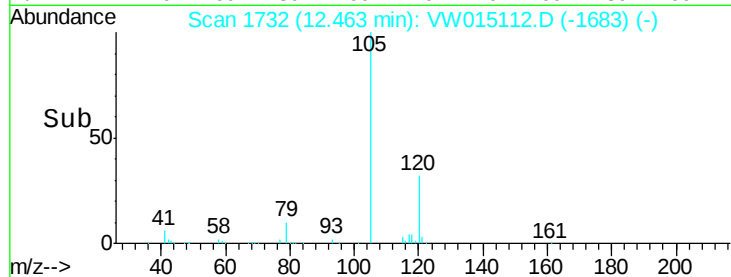
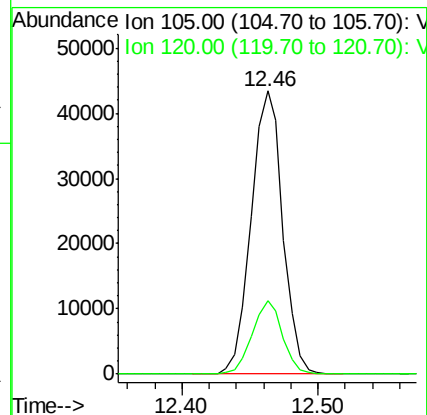
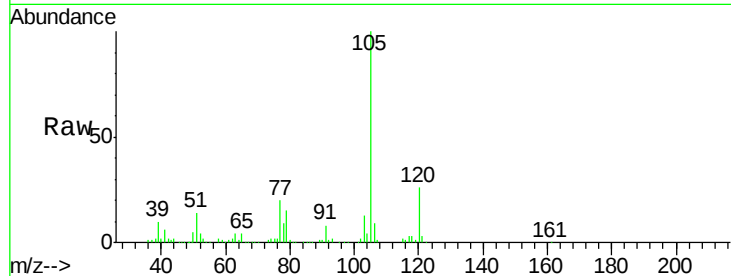
Ion Ratio Lower Upper

105 100

120 24.6 12.6 37.8

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#74

N-ethyl acetate

Concen: 3.987 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion: 43 Resp: 21820

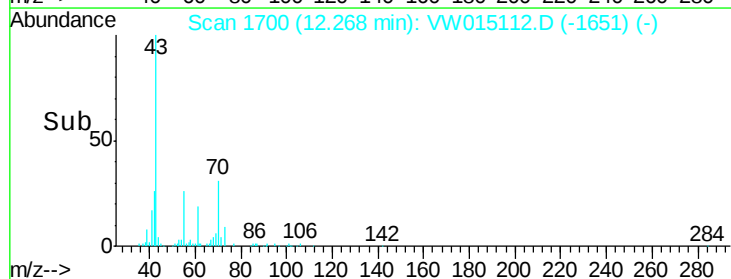
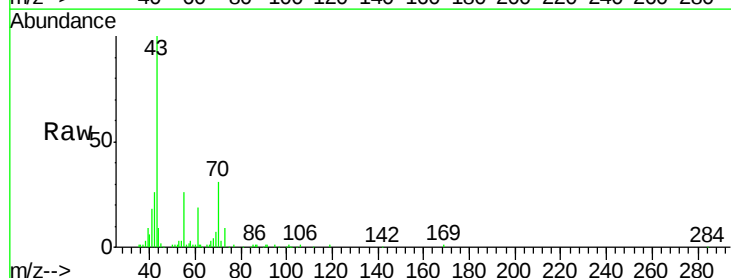
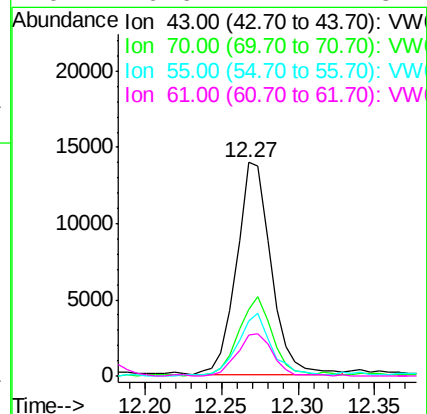
Ion Ratio Lower Upper

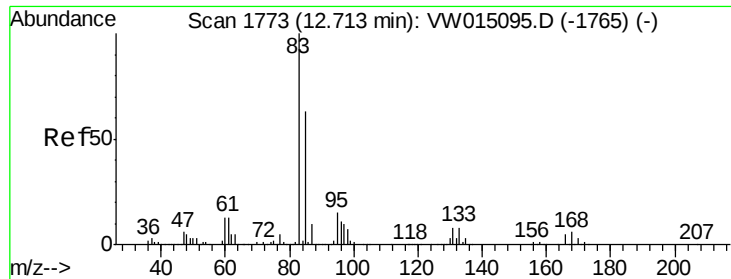
43 100

70 36.4 29.4 44.2

55 29.4 20.3 30.5

61 20.6 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 5.257 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

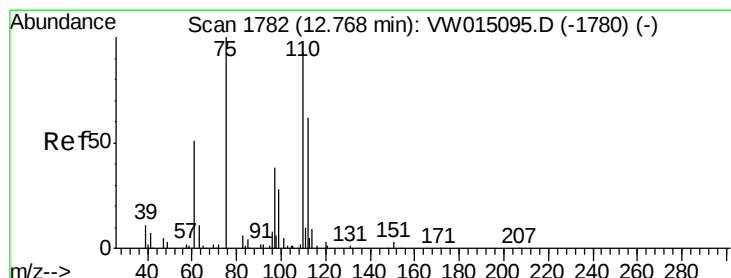
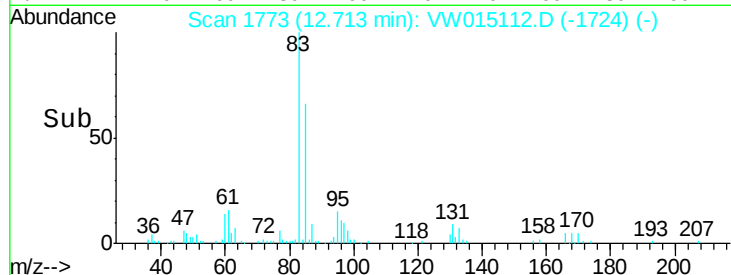
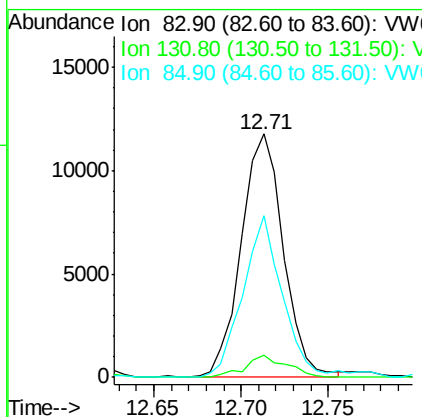
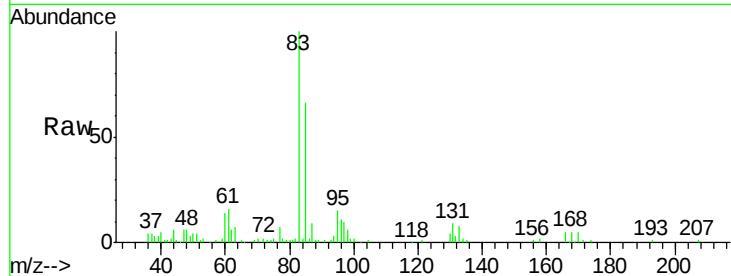
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	83	Resp:	19766
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.3	13.1
85	61.6	31.5	94.5

Manual Integrations
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3/11/2020 3:22:14 PM



#76

1,2,3-Trichloropropane

Concen: 5.572 ug/l m

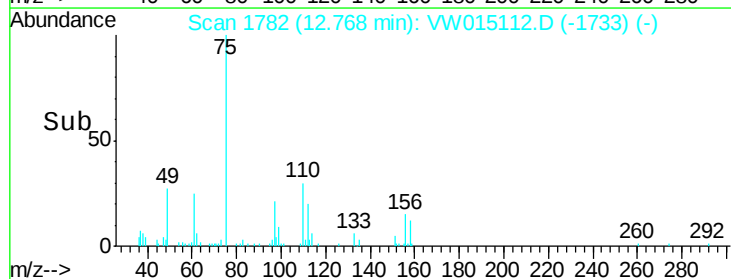
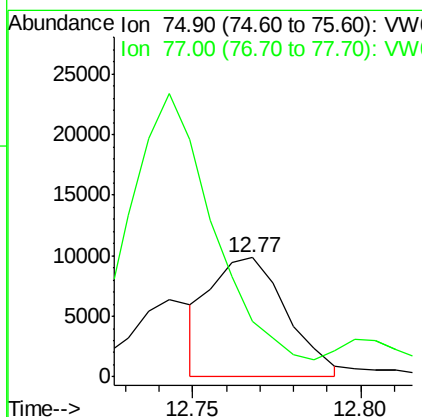
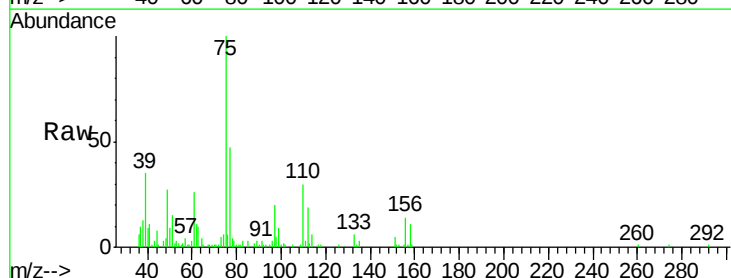
RT: 12.77 min Scan# 1782

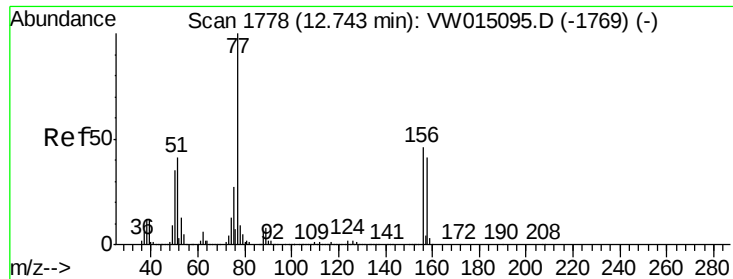
Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	75	Resp:	15266
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.493 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

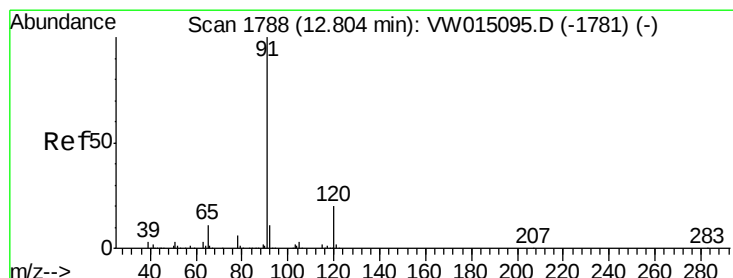
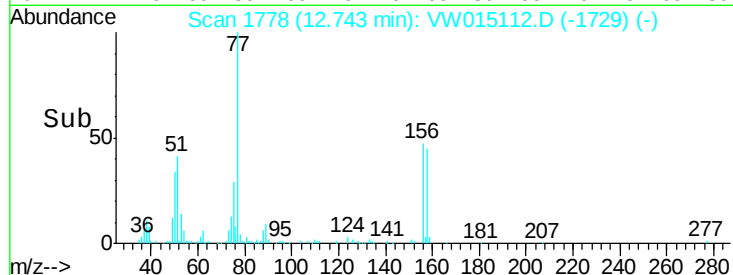
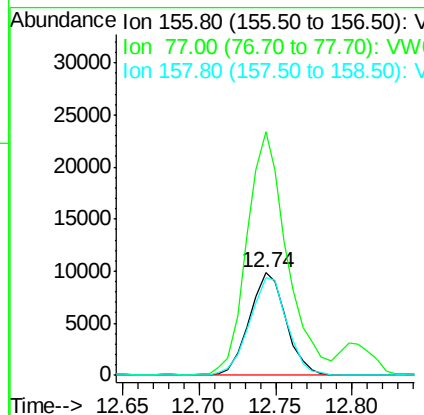
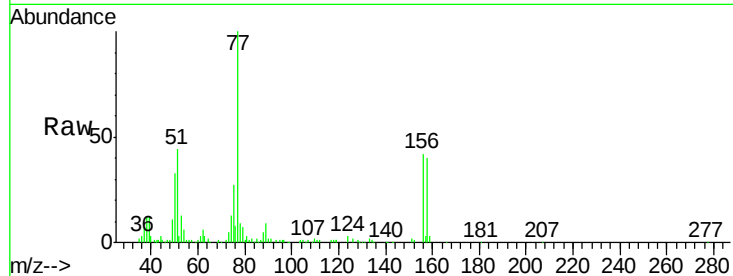
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	260.2	126.6	379.8	
158	97.7	47.4	142.2	

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#78

n-propylbenzene

Concen: 4.147 ug/l

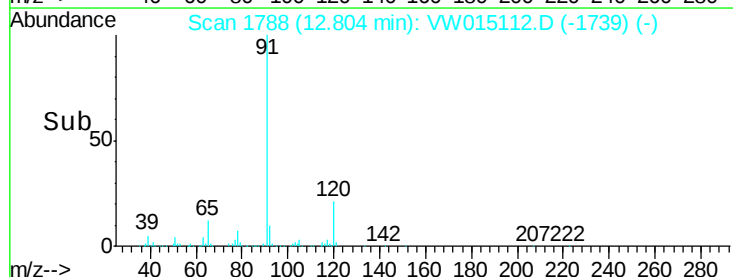
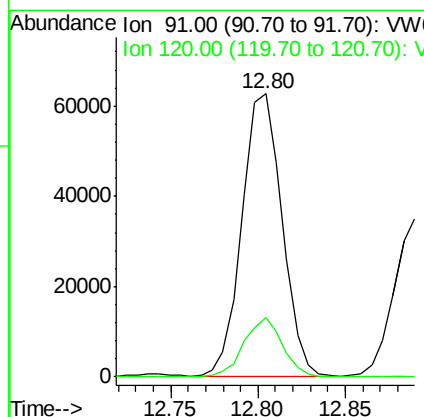
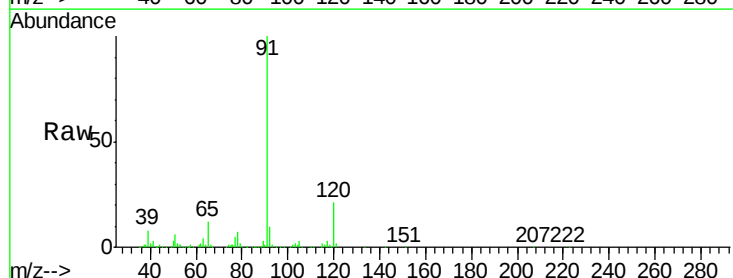
RT: 12.80 min Scan# 1788

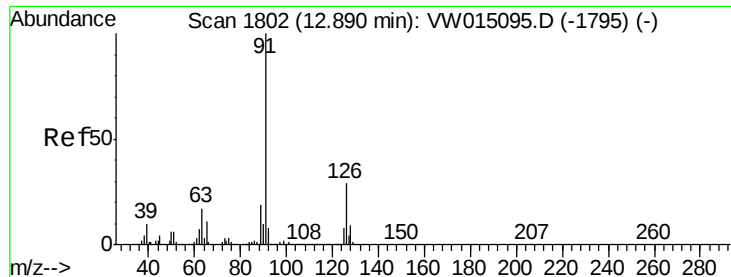
Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	20.0	10.2	30.4	





#79

2-Chlorotoluene

Concen: 4.230 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 91 Resp: 57228

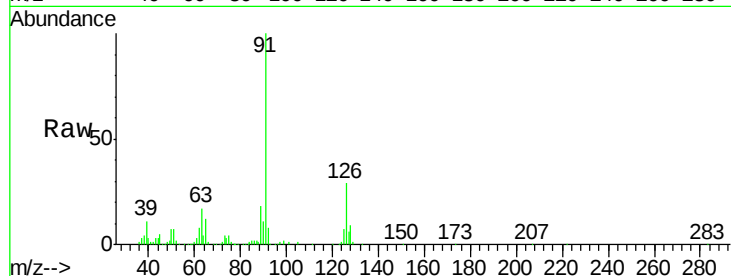
Ion Ratio Lower Upper

91 100

126 28.6 14.5 43.6

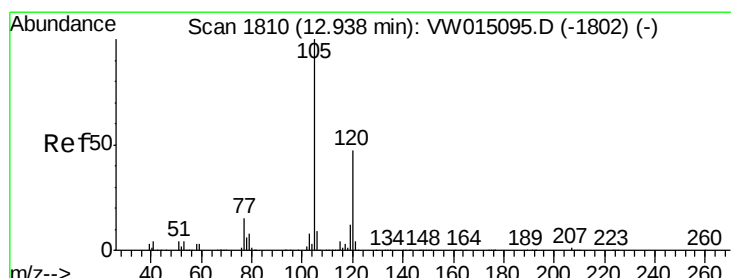
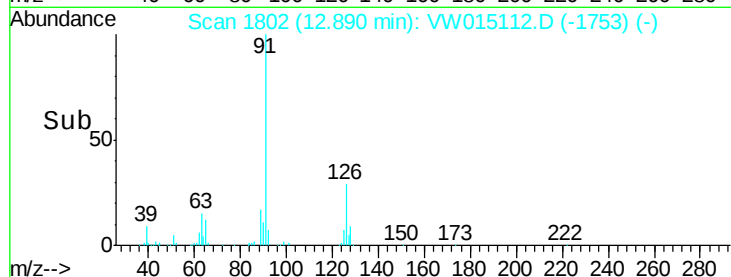
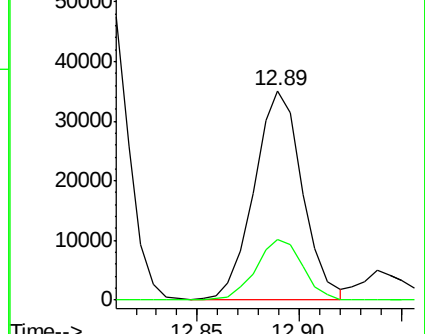
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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 3.895 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW015112.D

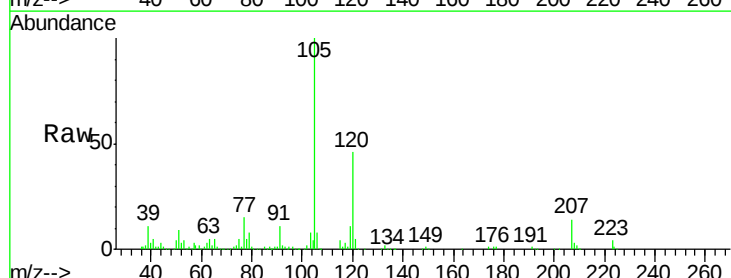
Acq: 10 Mar 2020 14:35

Tgt Ion:105 Resp: 62015

Ion Ratio Lower Upper

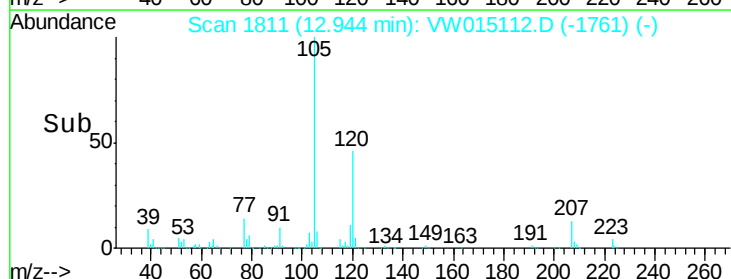
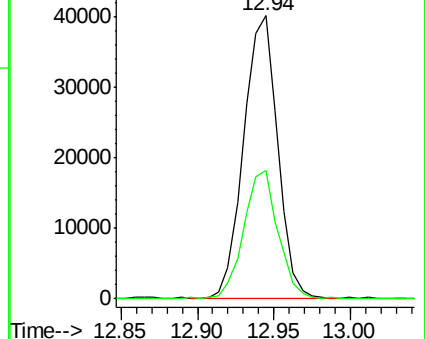
105 100

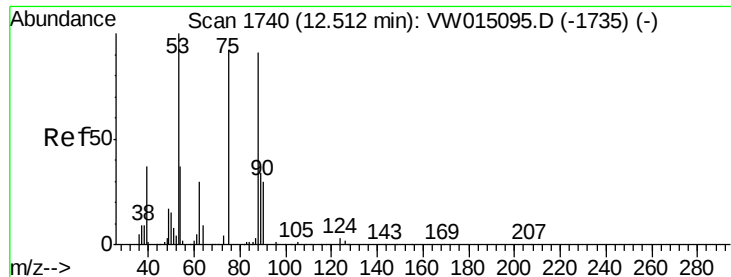
120 45.7 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





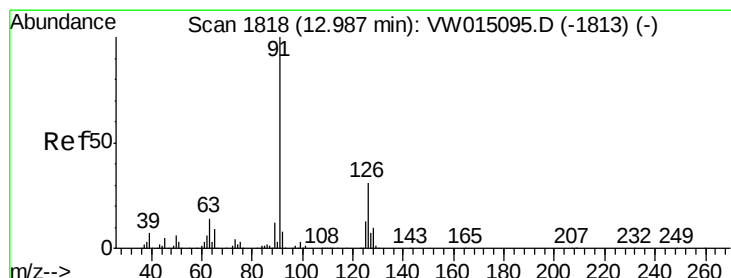
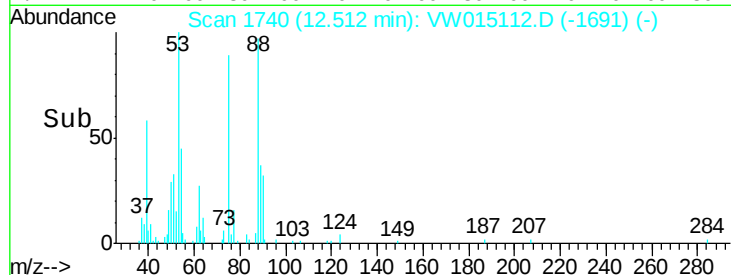
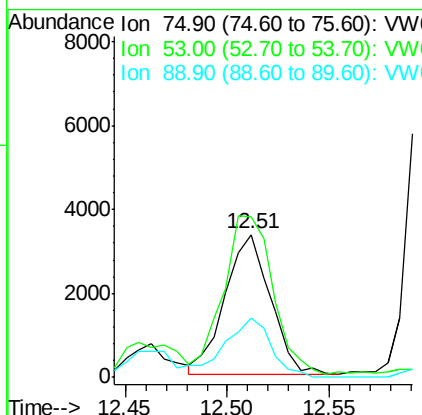
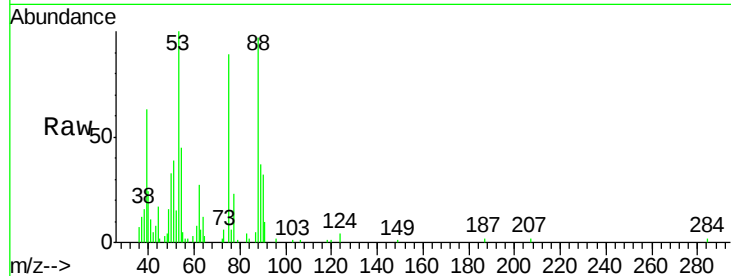
#81
trans-1,4-Dichloro-2-butene
Concen: 4.263 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	124.2	88.4	132.6
89	41.1	33.1	49.7

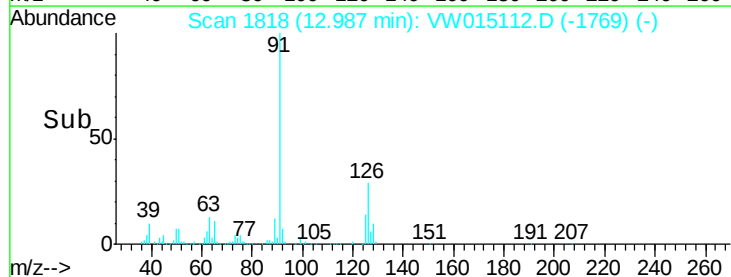
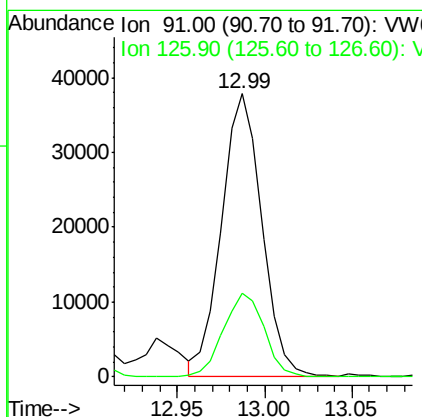
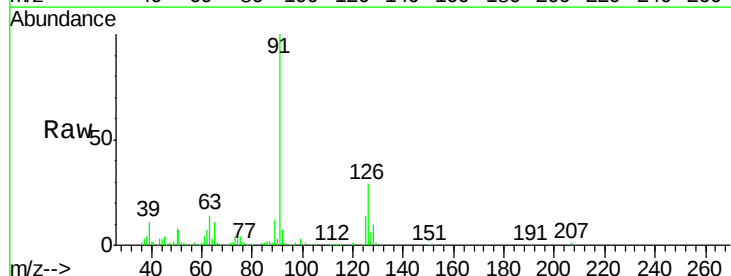
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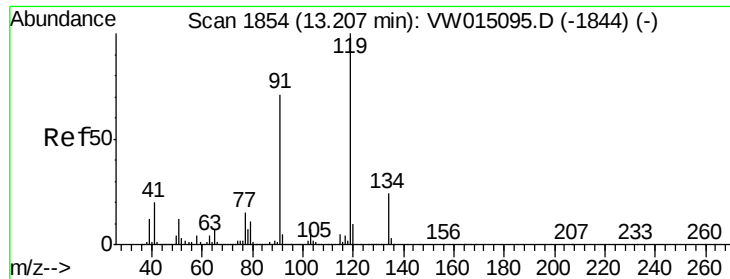
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#82
4-Chlorotoluene
Concen: 4.169 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.2	14.8	44.4





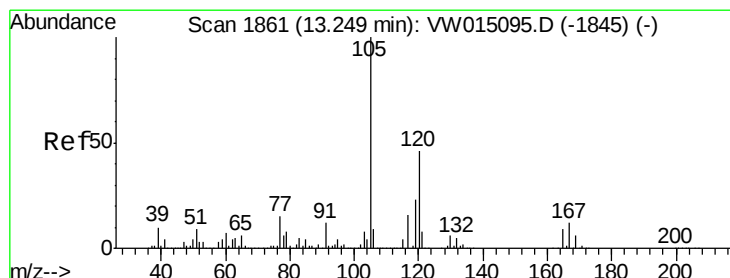
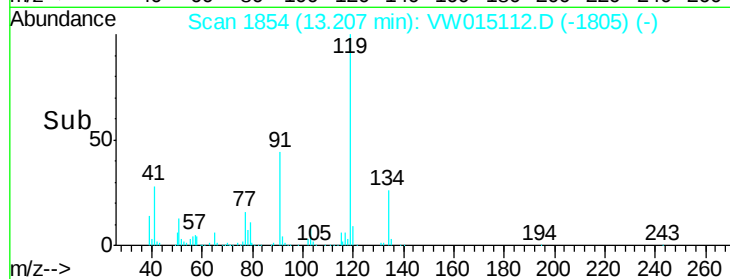
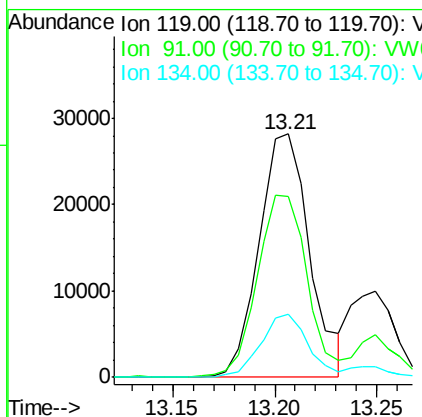
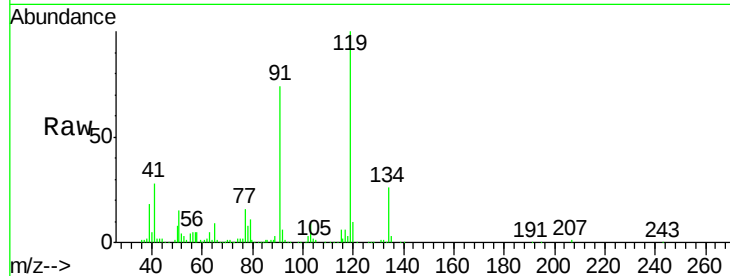
#83
 tert-Butylbenzene
 Concen: 3.780 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. -0.00 min
 Lab File: VW015112.D
 Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	73.5	35.7	107.1
134	24.1	12.7	38.1

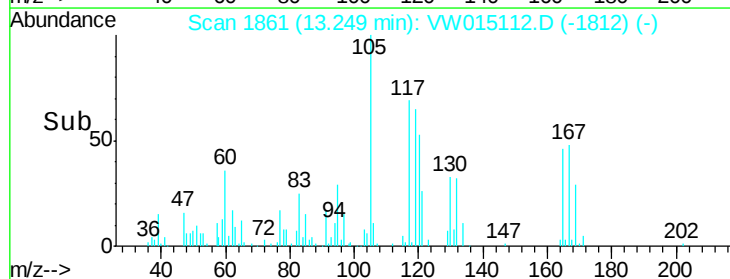
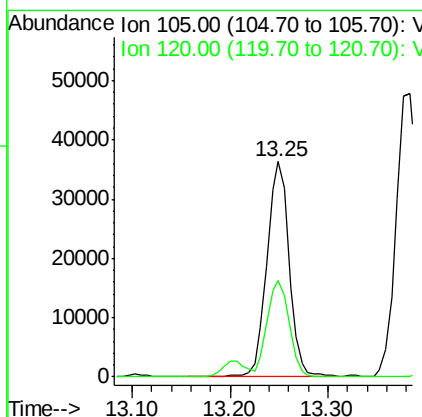
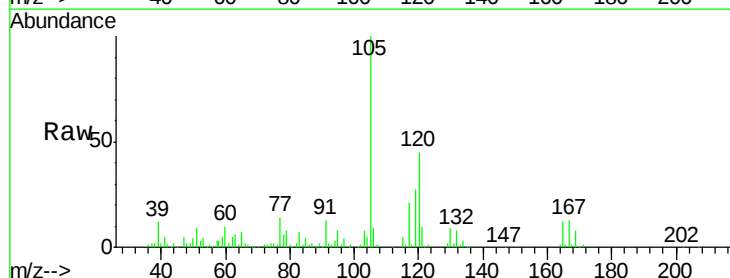
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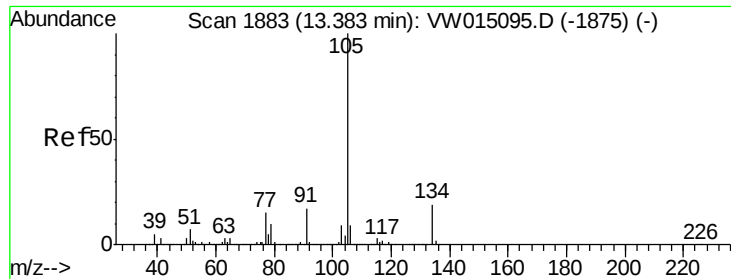
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#84
 1,2,4-Trimethylbenzene
 Concen: 3.626 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW015112.D
 Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.3





#85

sec-Butylbenzene

Concen: 3.938 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:105 Resp: 76876

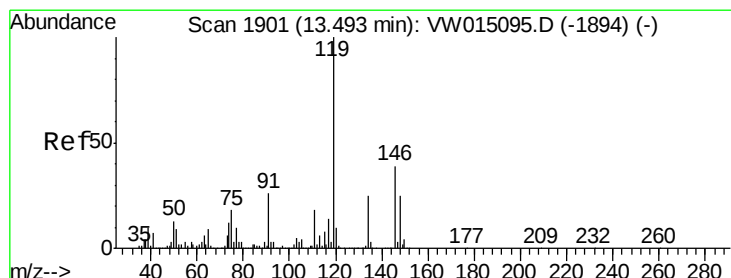
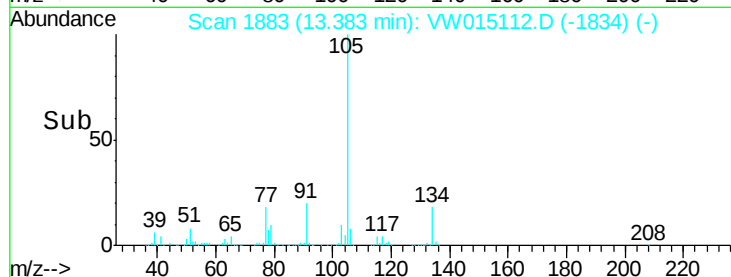
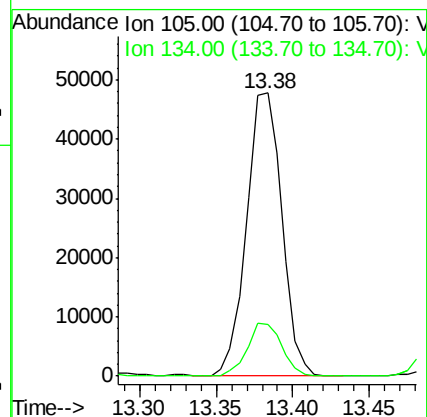
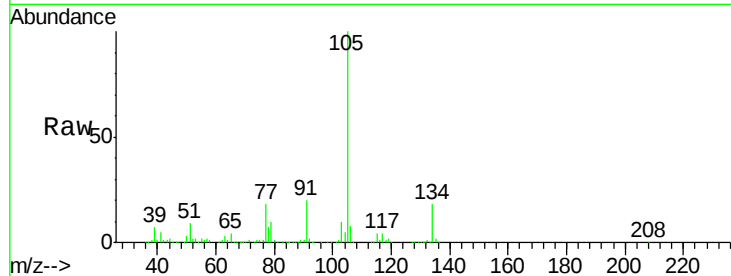
Ion Ratio Lower Upper

105 100

134 18.3 9.0 27.1

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#86

p-Isopropyltoluene

Concen: 3.728 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.01 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

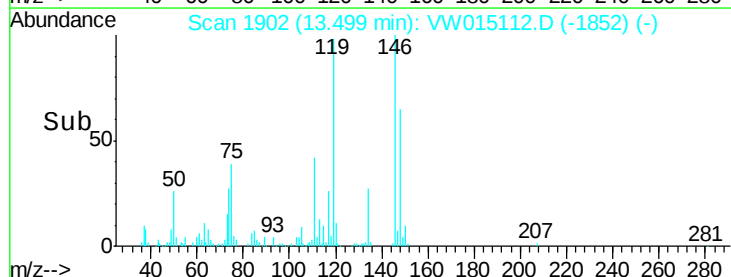
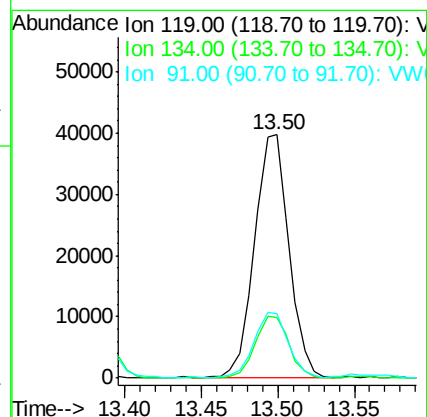
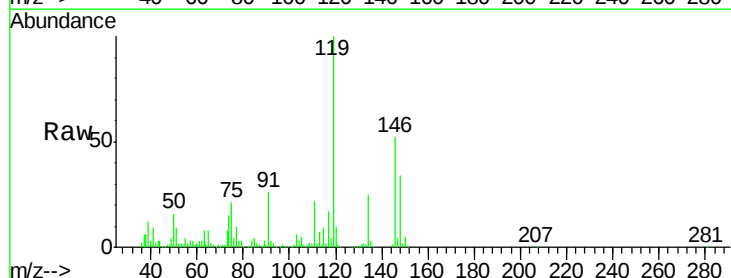
Tgt Ion:119 Resp: 62555

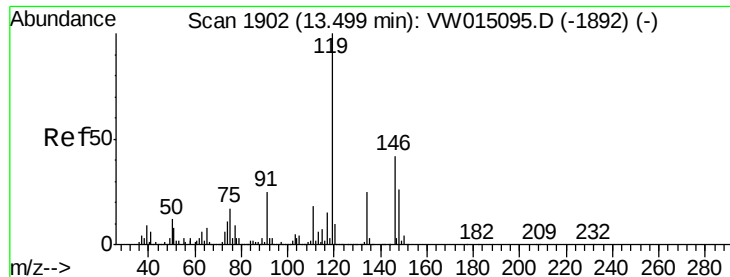
Ion Ratio Lower Upper

119 100

134 24.9 12.6 37.8

91 26.3 12.9 38.6





#87

1,3-Dichlorobenzene

Concen: 4.347 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

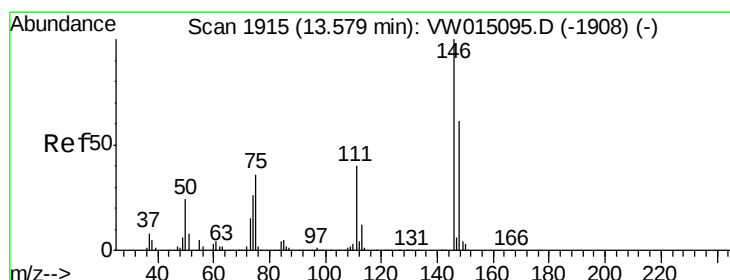
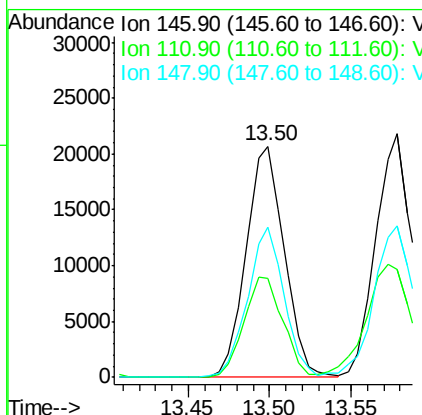
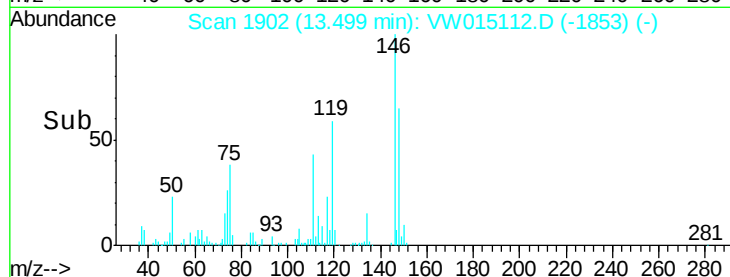
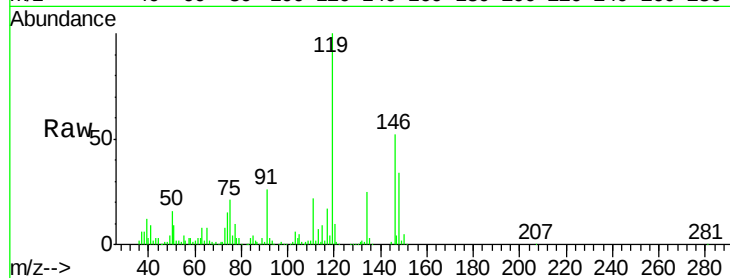
Instrument :
MSVOA_W

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.5	67.5
148	62.0	31.9	95.9

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#88

1,4-Dichlorobenzene

Concen: 4.521 ug/l

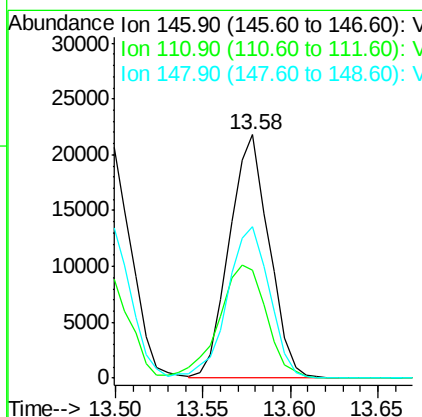
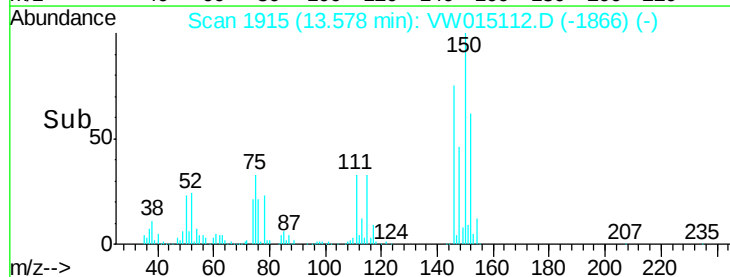
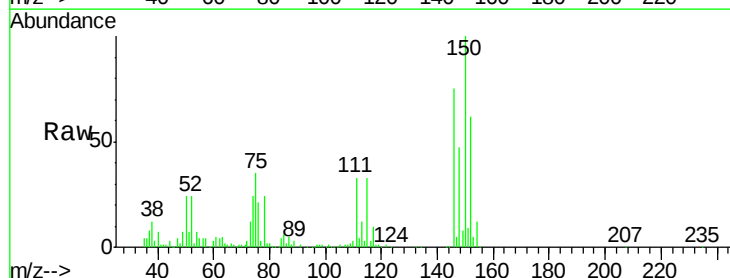
RT: 13.58 min Scan# 1915

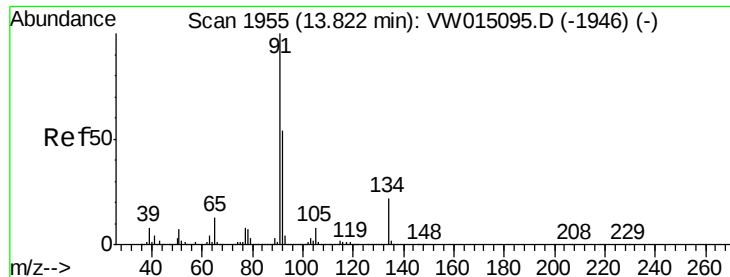
Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	55.7	21.3	63.9
148	66.4	31.6	94.8





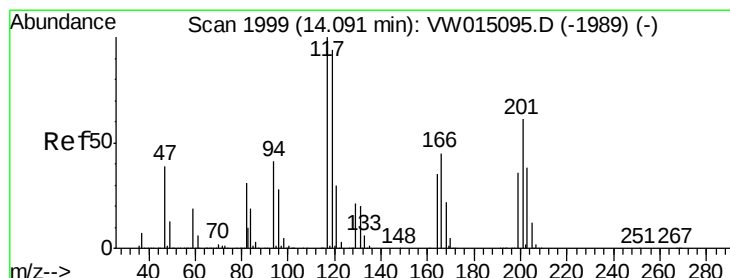
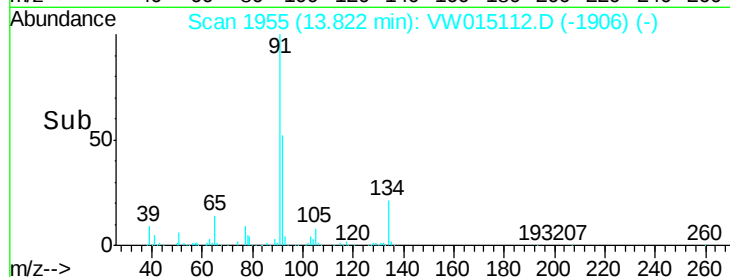
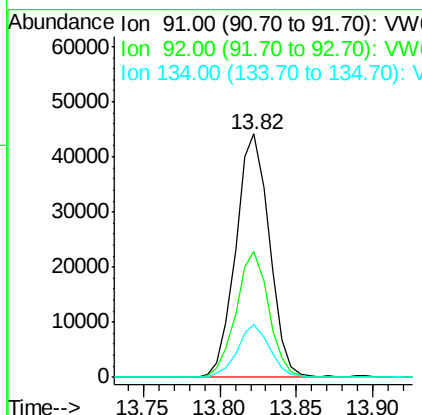
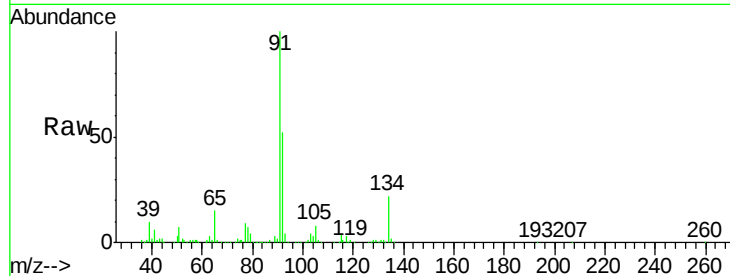
#89
n-Butylbenzene
Concen: 3.710 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.6	26.8	80.3
134	21.0	10.8	32.4

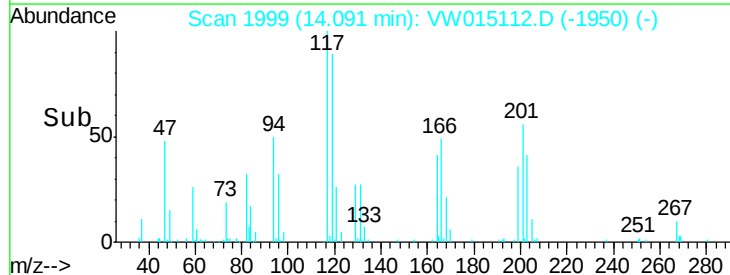
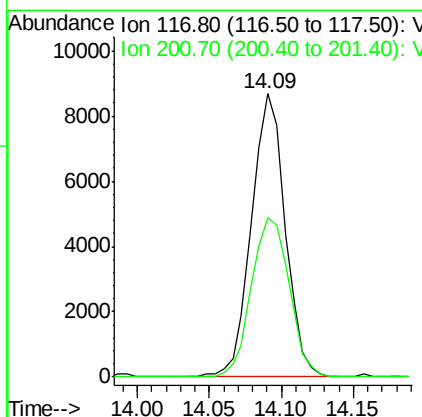
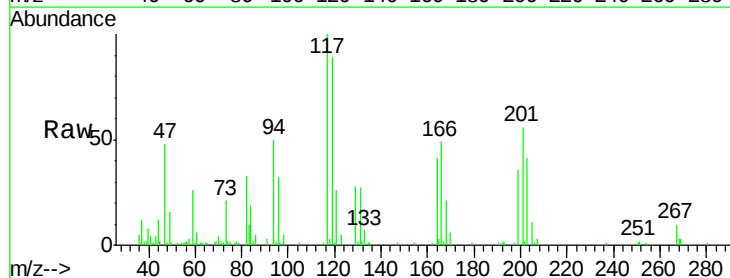
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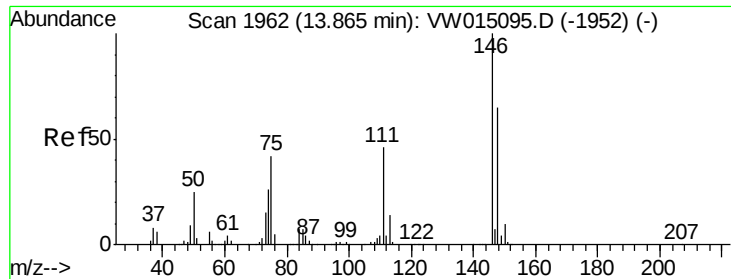
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#90
Hexachloroethane
Concen: 4.156 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
117	100		
201	63.4	30.3	90.9





#91

1,2-Dichlorobenzene

Concen: 4.323 ug/l

RT: 13.86 min Scan# 1962

Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Instrument :

MSVOA_W

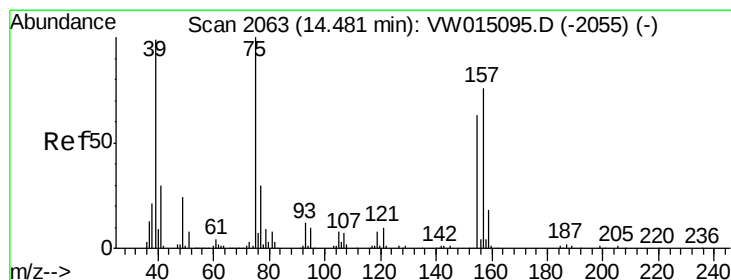
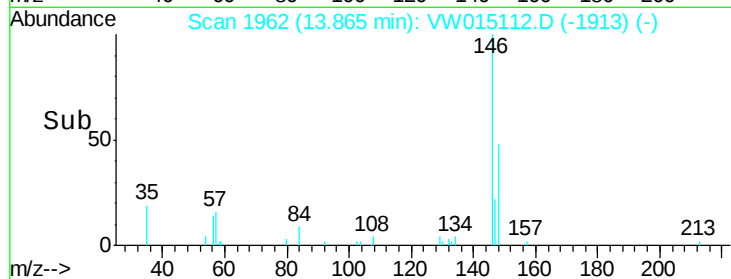
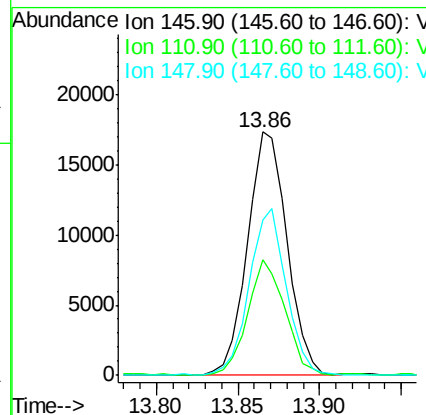
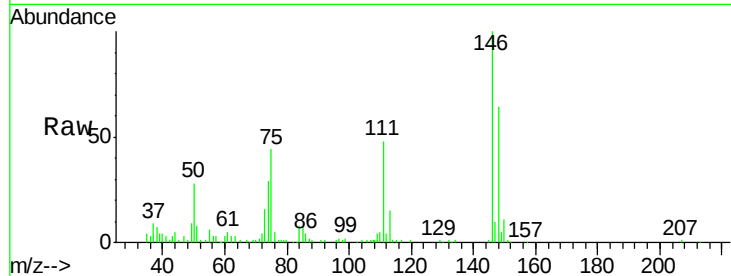
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	146	Resp:	29357
Ion Ratio	Lower	Upper	
146	100		
111	44.7	23.1	69.2
148	64.3	32.3	96.9

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 5.641 ug/l

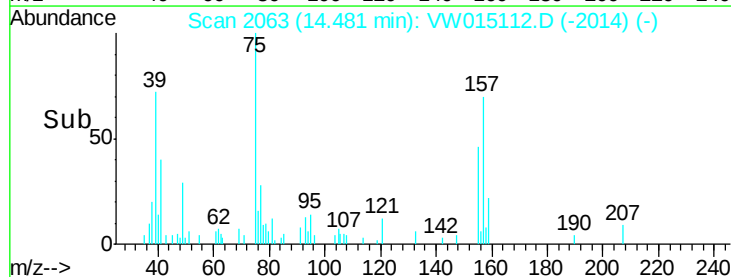
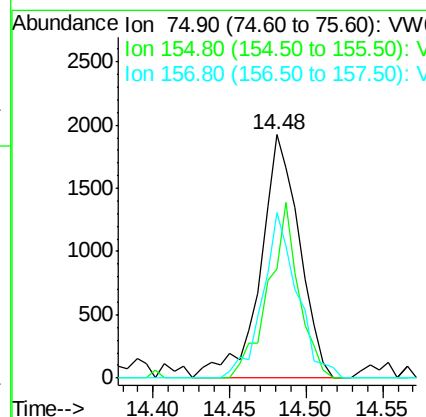
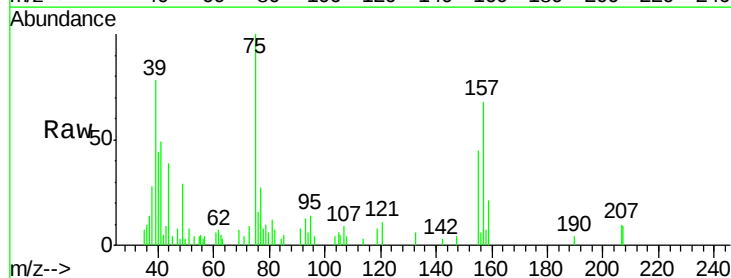
RT: 14.48 min Scan# 2063

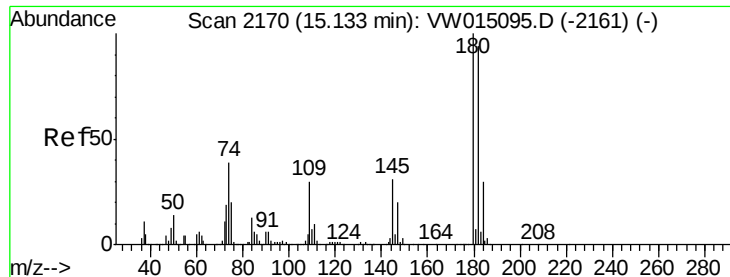
Delta R.T. -0.00 min

Lab File: VW015112.D

Acq: 10 Mar 2020 14:35

Tgt Ion:	75	Resp:	3406
Ion Ratio	Lower	Upper	
75	100		
155	56.4	32.1	96.3
157	60.1	39.6	118.7





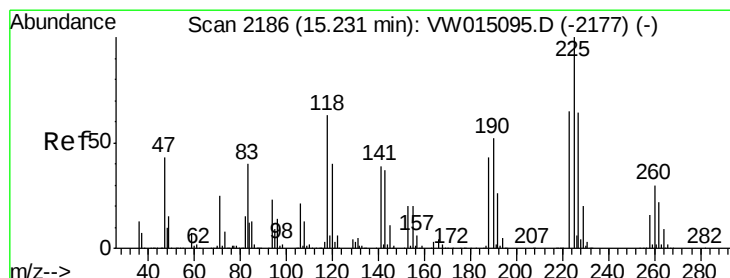
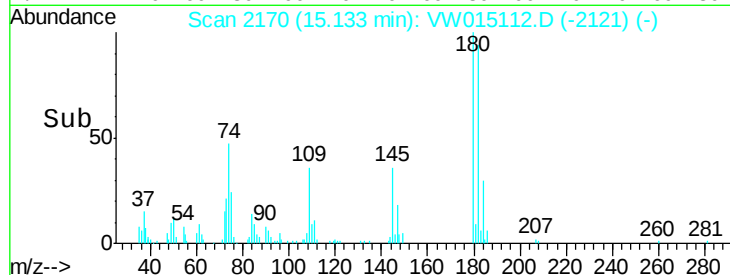
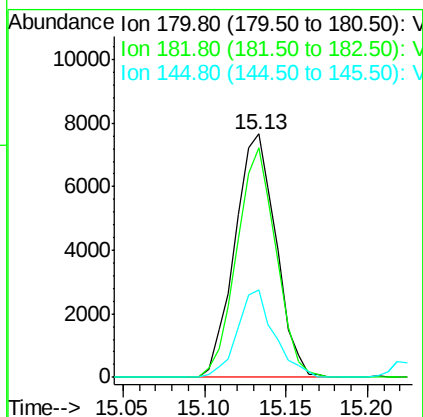
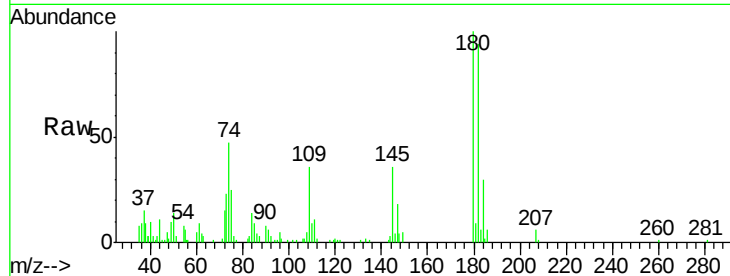
#93
 1,2,4-Trichlorobenzene
 Concen: 3.466 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW015112.D
 Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.8	47.6	142.9
145	32.1	16.2	48.5

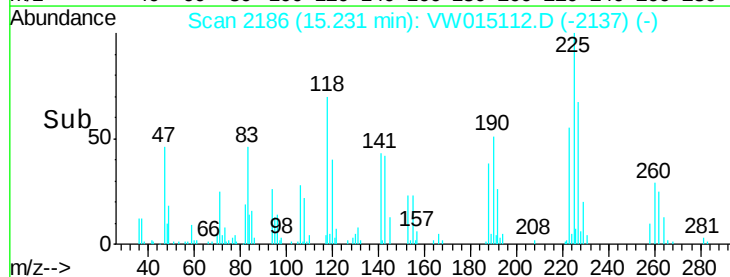
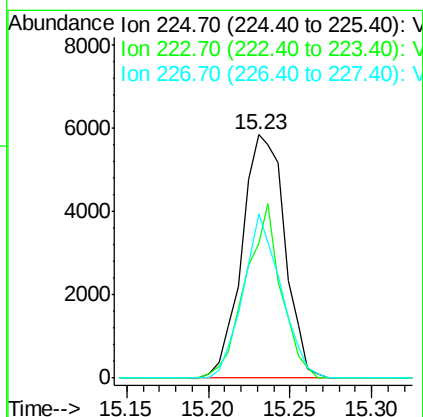
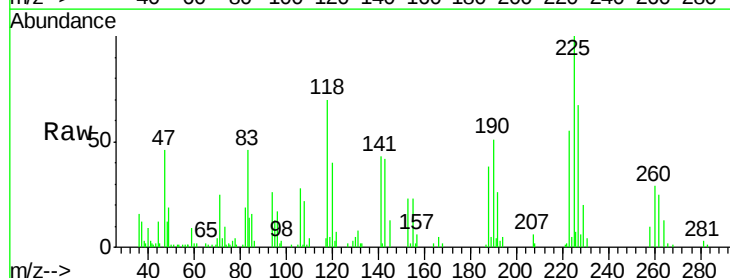
Manual Integrations
 APPROVED

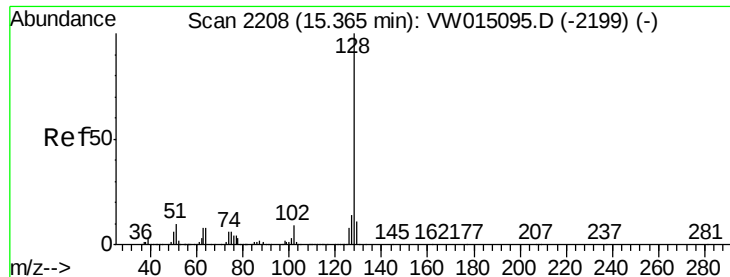
MMDadoda
 3/11/2020 3:22:14 PM



#94
 Hexachlorobutadiene
 Concen: 4.379 ug/l
 RT: 15.23 min Scan# 2186
 Delta R.T. -0.00 min
 Lab File: VW015112.D
 Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.5	32.5	97.4
227	59.7	33.0	99.0





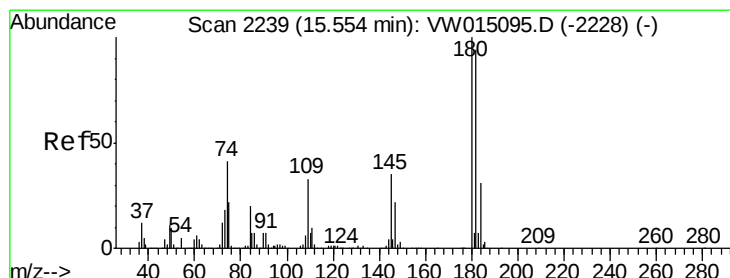
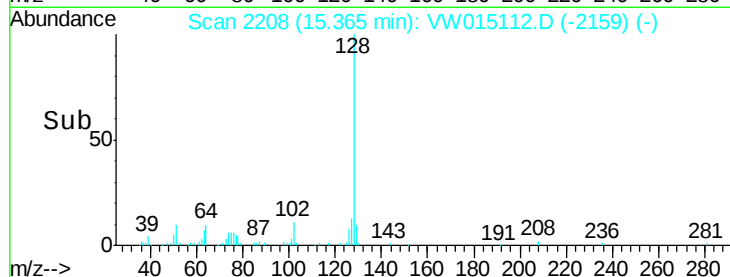
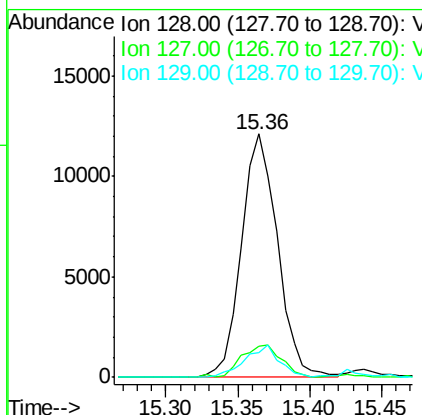
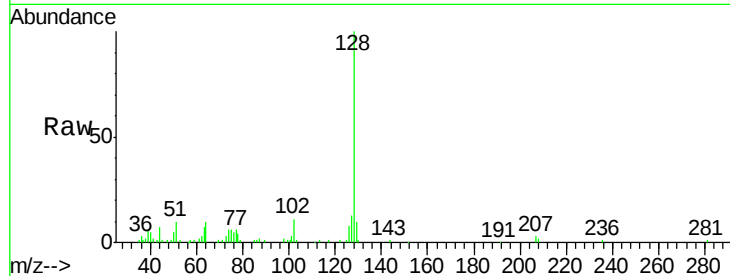
#95
Naphthalene
Concen: 2.900 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.7	16.1
129	12.6	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:22:14 PM



#96
1,2,3-Trichlorobenzene
Concen: 3.673 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW015112.D
Acq: 10 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.9	143.7
145	34.3	17.5	52.6

