

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070920\
 Data File : VW015826.D
 Acq On : 09 Jul 2020 14:17
 Operator : SY/VA
 Sample : L3216-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Quant Time: Jul 10 07:49:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070720S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 08 08:28:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	194449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	309956	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	279723	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	135332	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	99313	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
35) Dibromofluoromethane	7.89	113	87219	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
50) Toluene-d8	10.32	98	337708	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
62) 4-Bromofluorobenzene	12.62	95	123136	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	3516	3.433	ug/l	92
3) Chloromethane	2.21	50	4709	3.386	ug/l	97
4) Vinyl Chloride	2.36	62	6121	2.850	ug/l	100
5) Bromomethane	2.79	94	4821	2.934	ug/l	94
6) Chloroethane	2.93	64	4082	2.817	ug/l	98
7) Trichlorofluoromethane	3.26	101	4174	2.705	ug/l	99
8) Diethyl Ether	3.68	74	2675	2.782	ug/l	66
9) 1,1,2-Trichlorotrifluoroet	4.06	101	4956	2.743	ug/l	98
10) Methyl Iodide	4.27	142	7019	2.779	ug/l	98
11) Tert butyl alcohol	5.21	59	2264m	20.248	ug/l	
12) 1,1-Dichloroethene	4.04	96	4939	2.781	ug/l	94
13) Acrolein	3.90	56	1577	11.353	ug/l	100
14) Allyl chloride	4.67	41	7510	2.601	ug/l	96
15) Acrylonitrile	5.38	53	4920	13.087	ug/l	100
16) Acetone	4.14	43	7020	18.737	ug/l	99
17) Carbon Disulfide	4.38	76	13408	2.538	ug/l	99
18) Methyl Acetate	4.68	43	2757	3.234	ug/l	93
19) Methyl tert-butyl Ether	5.43	73	7323	2.755	ug/l	98
20) Methylene Chloride	4.92	84	14623	6.721	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	5366	2.608	ug/l	84
22) Diisopropyl ether	6.32	45	14415	2.478	ug/l	94
23) Vinyl Acetate	6.26	43	38973	11.263	ug/l	99
24) 1,1-Dichloroethane	6.21	63	9713	2.637	ug/l	93
25) 2-Butanone	7.19	43	8358	16.435	ug/l	92
26) 2,2-Dichloropropane	7.17	77	8341	3.610	ug/l	87
27) cis-1,2-Dichloroethene	7.17	96	5739	2.598	ug/l	81
28) Bromochloromethane	7.51	49	3928	2.690	ug/l #	97
29) Tetrahydrofuran	7.54	42	3988	12.923	ug/l	96
30) Chloroform	7.68	83	9824	2.609	ug/l	92
31) Cyclohexane	7.95	56	12674	3.656	ug/l #	74
32) 1,1,1-Trichloroethane	7.87	97	8421	2.667	ug/l	97
36) 1,1-Dichloropropene	8.09	75	8301	2.717	ug/l	98
37) Ethyl Acetate	7.26	43	2675	2.253	ug/l	97
38) Carbon Tetrachloride	8.07	117	7752	2.622	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	9124	2.531	ug/l	94
40) Benzene	8.32	78	22371	2.673	ug/l	98
41) Methacrylonitrile	7.49	41	1607	2.384	ug/l	96
42) 1,2-Dichloroethane	8.40	62	7439	2.856	ug/l	98
43) Isopropyl Acetate	8.43	43	5849	2.524	ug/l	98
44) Trichloroethene	9.09	130	5895	2.663	ug/l	91
45) 1,2-Dichloropropane	9.37	63	5351	2.601	ug/l	92
46) Dibromomethane	9.46	93	2796	2.640	ug/l	95
47) Bromodichloromethane	9.65	83	6839	2.496	ug/l #	98
48) Methyl methacrylate	9.44	41	2490	2.345	ug/l	91
49) 1,4-Dioxane	9.47	88	727	55.520	ug/l #	77
51) 4-Methyl-2-Pentanone	10.21	43	13149	11.628	ug/l	96
52) Toluene	10.39	92	14248	2.645	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	5679	2.161	ug/l	99
54) cis-1,3-Dichloropropene	10.08	75	7219	2.296	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	3995	2.720	ug/l	95
56) Ethyl methacrylate	10.65	69	4126	2.285	ug/l	97
57) 1,3-Dichloropropane	10.93	76	6559	2.523	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.93	63	9526	10.797	ug/l	96
59) 2-Hexanone	10.97	43	8632	11.438	ug/l	99
60) Dibromochloromethane	11.13	129	3633	2.142	ug/l	95
61) 1,2-Dibromoethane	11.24	107	3456	2.459	ug/l	97
64) Tetrachloroethene	10.87	164	5133	2.900	ug/l	89
65) Chlorobenzene	11.66	112	14501	2.651	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	4664	2.409	ug/l	98
67) Ethyl Benzene	11.73	91	26372	2.603	ug/l	98
68) m/p-Xylenes	11.84	106	18486	4.858	ug/l	99
69) o-Xylene	12.17	106	8216	2.365	ug/l	96
70) Styrene	12.18	104	13473	2.254	ug/l	99
71) Bromoform	12.35	173	1882	2.130	ug/l #	91
73) Isopropylbenzene	12.47	105	23077	2.420	ug/l	99
74) N-amyl acetate	12.27	43	4649	2.279	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.72	83	4250	2.683	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	3158m	2.655	ug/l	
77) Bromobenzene	12.75	156	5855	2.739	ug/l	95
78) n-propylbenzene	12.80	91	29975	2.590	ug/l	99
79) 2-Chlorotoluene	12.90	91	17206	2.607	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	19852	2.443	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.52	75	964m	2.072	ug/l	
82) 4-Chlorotoluene	12.99	91	17681	2.566	ug/l	97
83) tert-Butylbenzene	13.21	119	16369	2.426	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	19451	2.397	ug/l	98
85) sec-Butylbenzene	13.38	105	24690	2.534	ug/l	100
86) p-Isopropyltoluene	13.50	119	20875	2.346	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	11250	2.625	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	11479	2.736	ug/l	85
89) n-Butylbenzene	13.82	91	21370	2.510	ug/l	97
90) Hexachloroethane	14.10	117	3726	2.311	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	9803	2.640	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.49	75	687	2.714	ug/l	86

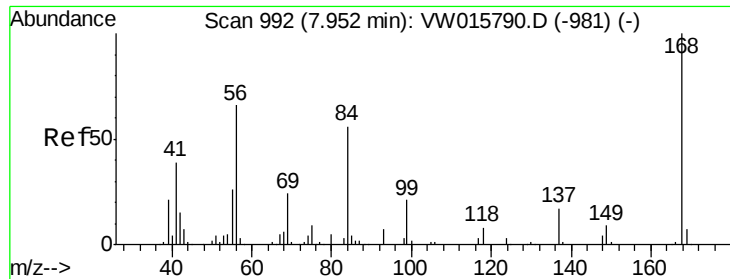
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	6248	2.669	ug/l	99
94) Hexachlorobutadiene	15.24	225	4012	2.700	ug/l	96
95) Naphthalene	15.37	128	8950	2.288	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	5622	2.823	ug/l	95

(#) = 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. -0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleID :

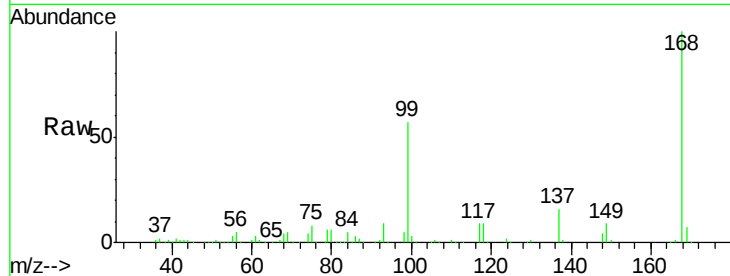
MDL-SOIL-03-QT3-2020DL

Tot Ion:168 Resp: 194449

Ion Ratio Lower Upper

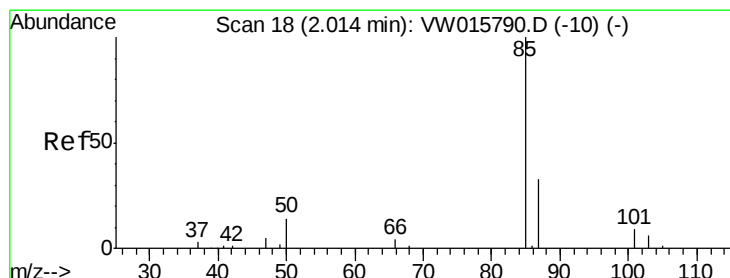
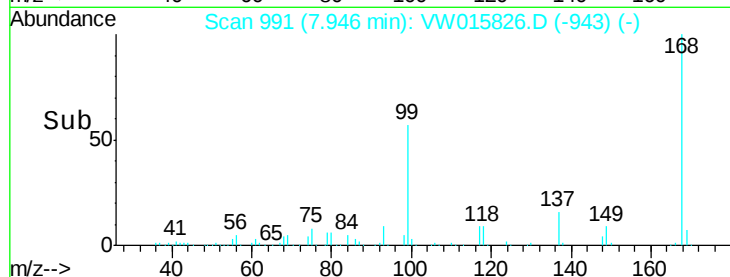
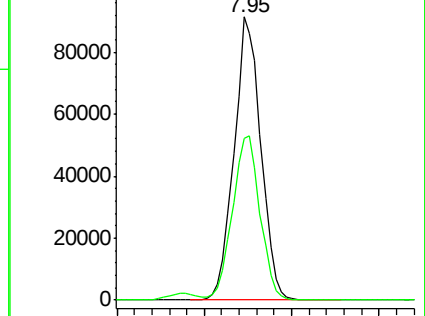
168 100

99 57.2 47.8 71.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 3.433 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW015826.D

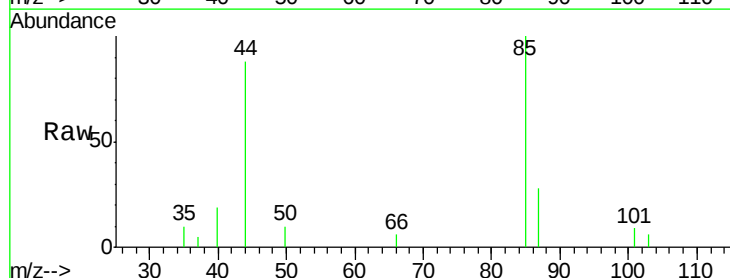
Acq: 09 Jul 2020 14:17

Tgt Ion: 85 Resp: 3516

Ion Ratio Lower Upper

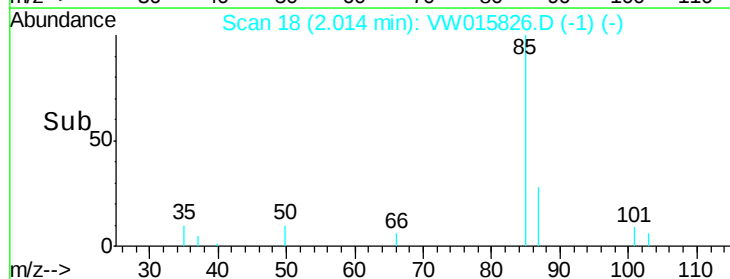
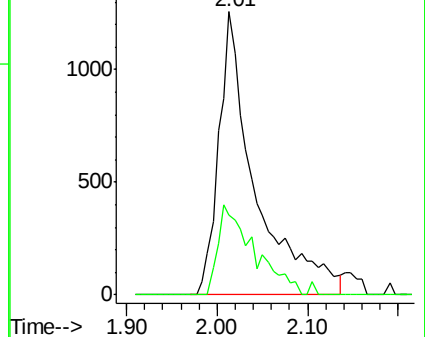
85 100

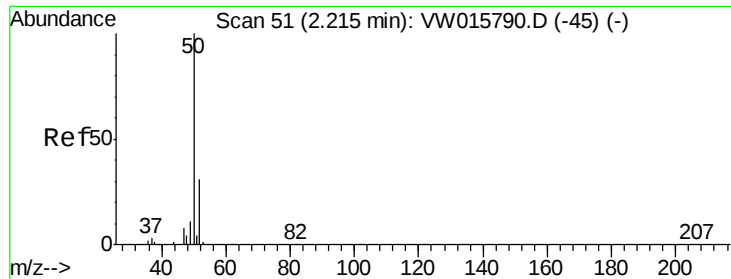
87 28.0 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 3.386 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

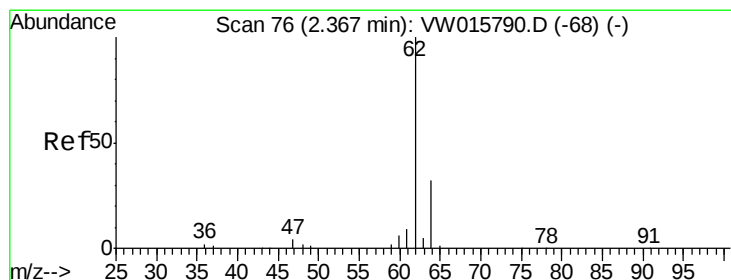
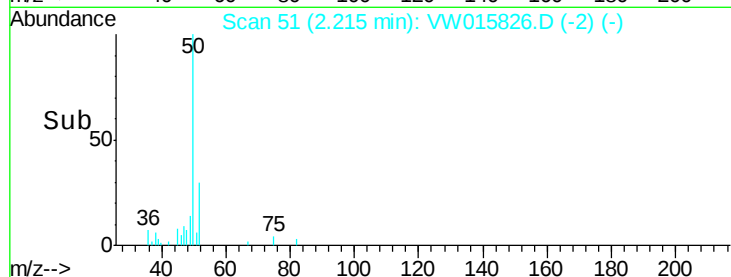
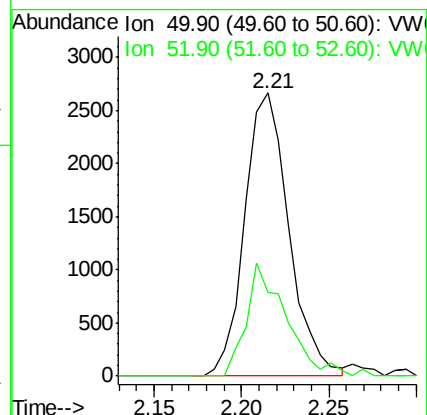
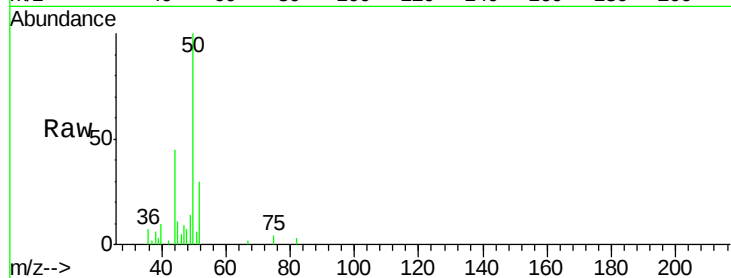
MDL-SOIL-03-QT3-2020DL

Tot Ion: 50 Resp: 4709

Ion Ratio Lower Upper

50 100

52 29.6 25.2 37.8



#4

Vinyl Chloride

Concen: 2.850 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015826.D

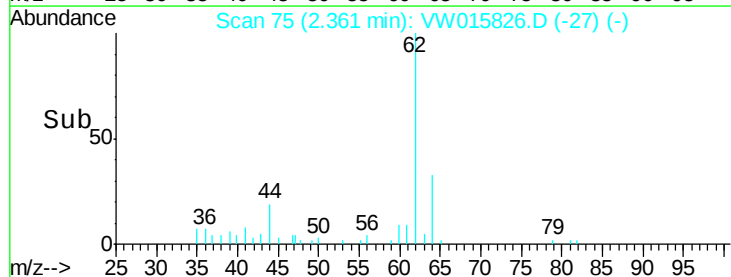
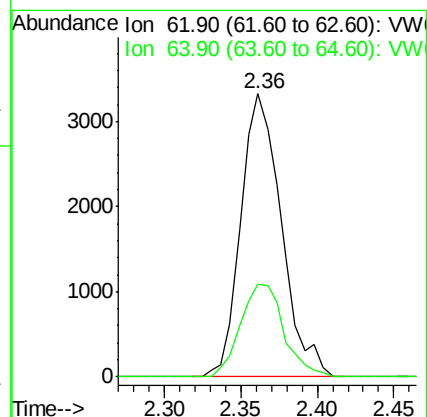
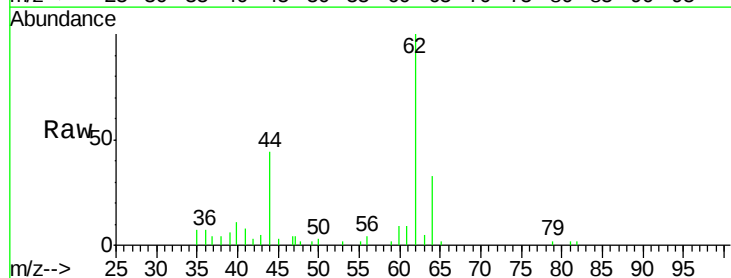
Acq: 09 Jul 2020 14:17

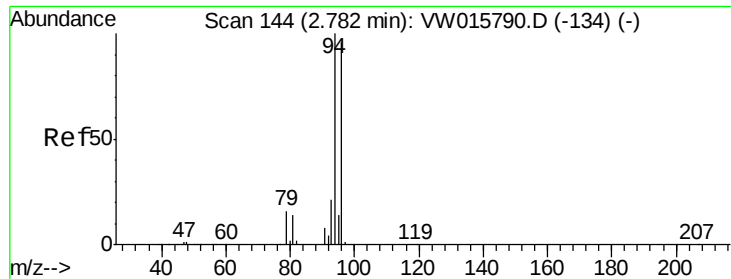
Tgt Ion: 62 Resp: 6121

Ion Ratio Lower Upper

62 100

64 32.5 25.8 38.8





#5

Bromomethane

Concen: 2.934 ug/l

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

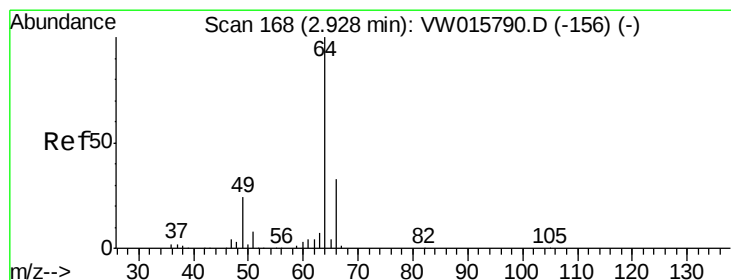
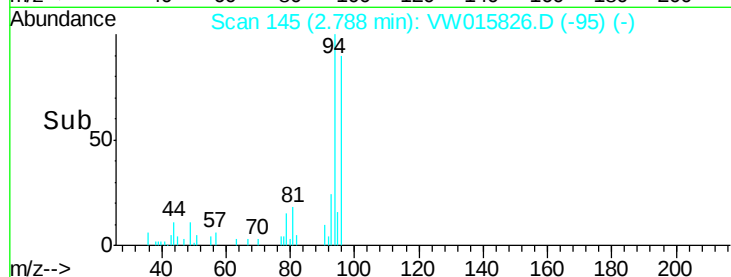
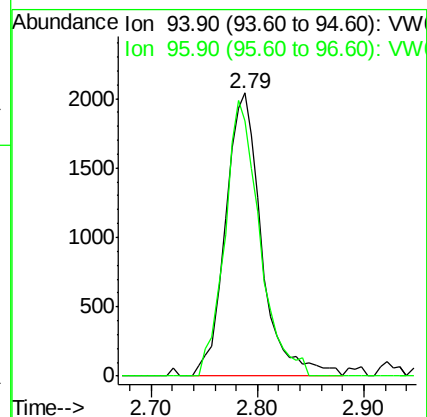
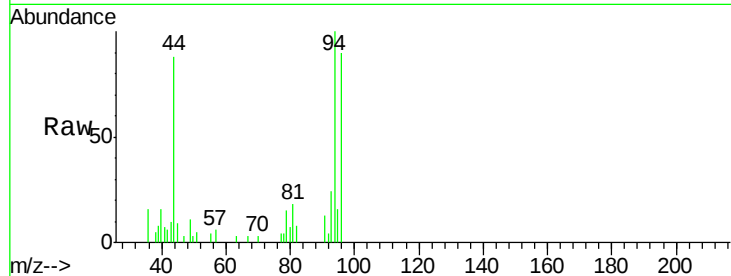
MDL-SOIL-03-QT3-2020DL

Tot Ion: 94 Resp: 4821

Ion Ratio Lower Upper

94 100

96 90.0 76.7 115.1



#6

Chloroethane

Concen: 2.817 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW015826.D

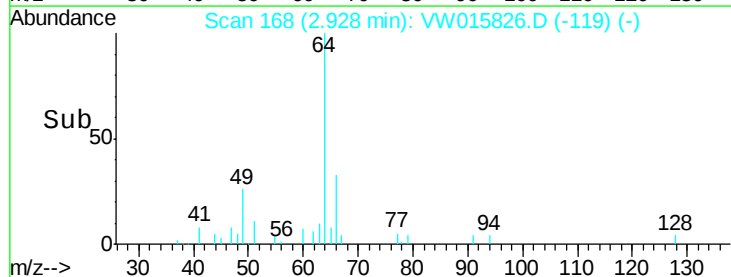
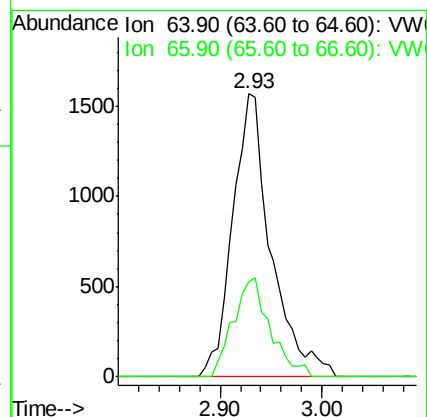
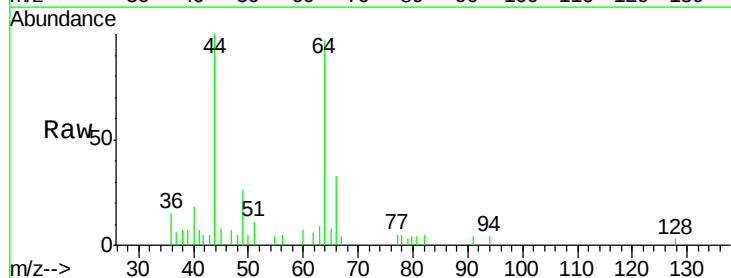
Acq: 09 Jul 2020 14:17

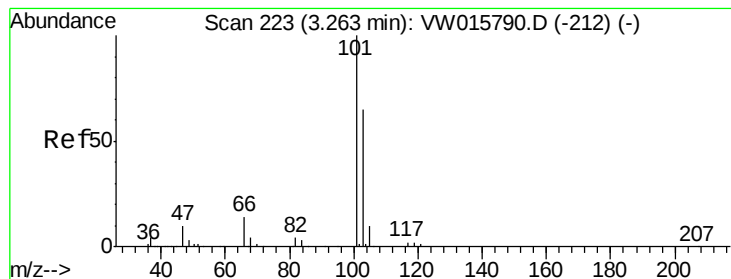
Tgt Ion: 64 Resp: 4082

Ion Ratio Lower Upper

64 100

66 33.5 26.0 39.0



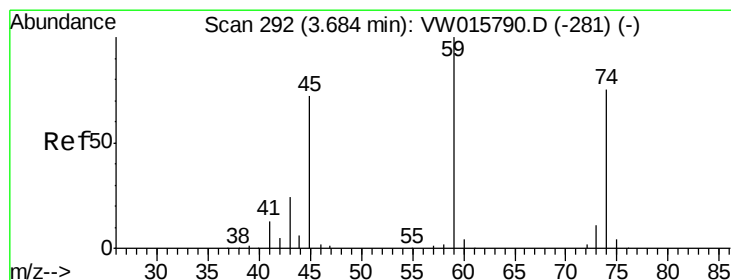
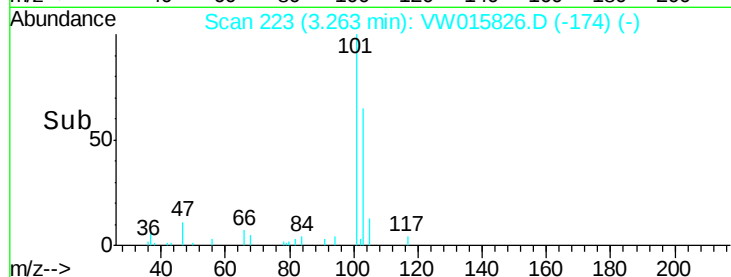
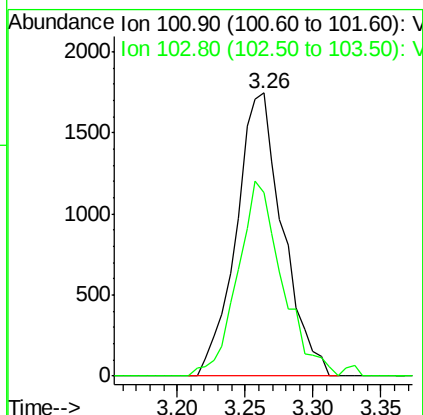
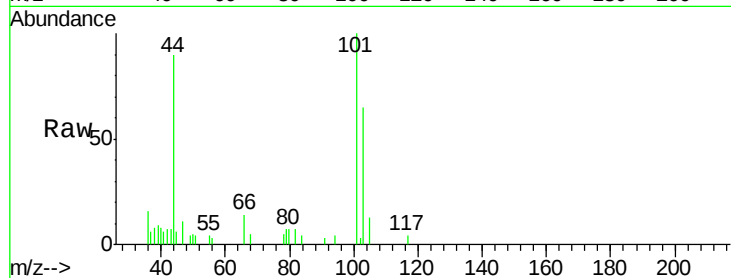


#7

Trichlorofluoromethane
 Concen: 2.705 ug/l
 RT: 3.26 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

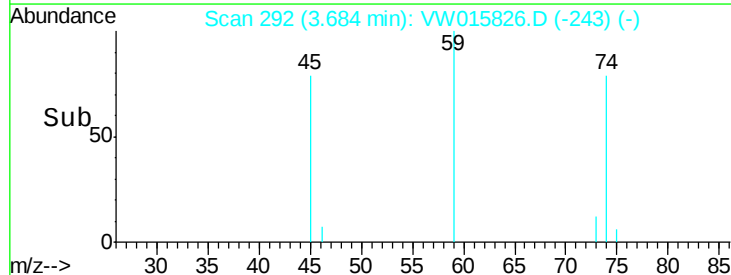
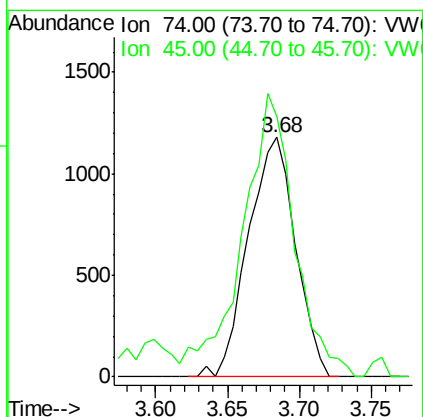
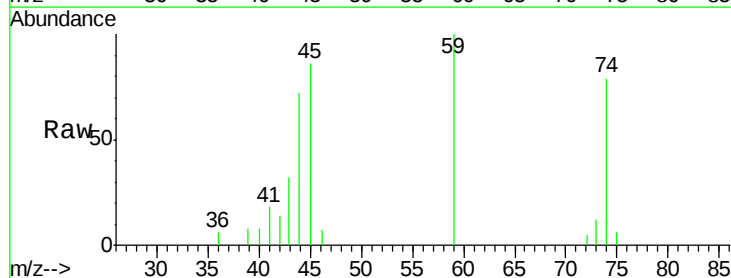
Tot Ion:101 Resp: 4174
 Ion Ratio Lower Upper
 101 100
 103 64.7 52.2 78.4

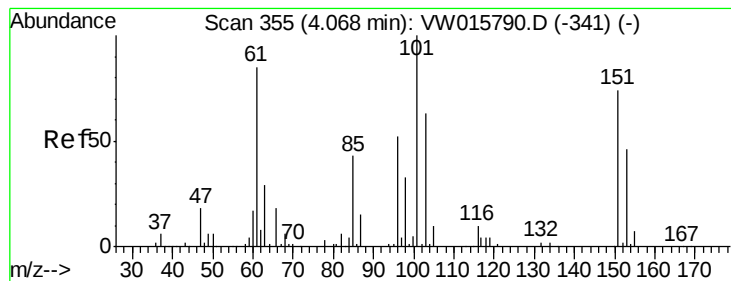


#8

Diethyl Ether
 Concen: 2.782 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Tgt Ion: 74 Resp: 2675
 Ion Ratio Lower Upper
 74 100
 45 130.6 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.743 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

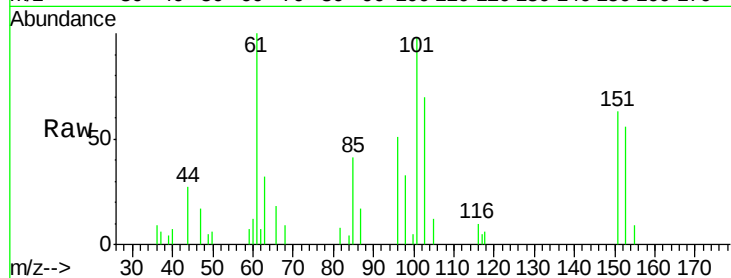
Tot Ion:101 Resp: 4956

Ion Ratio Lower Upper

101 100

85 47.5 36.1 54.1

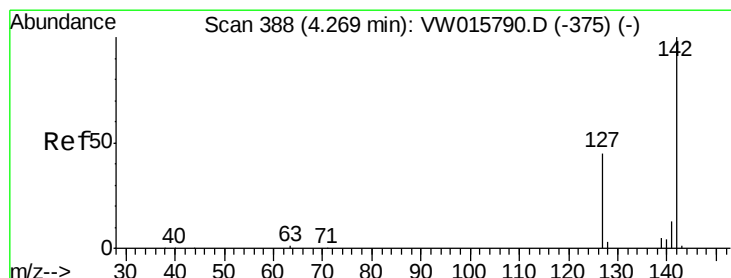
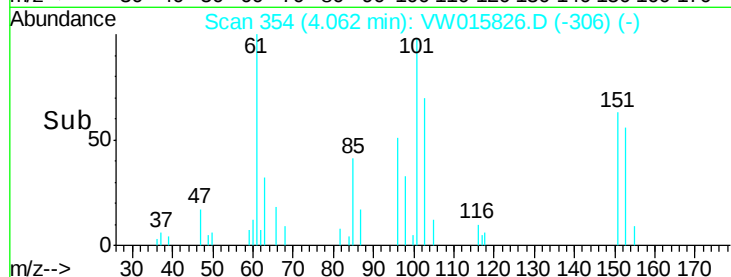
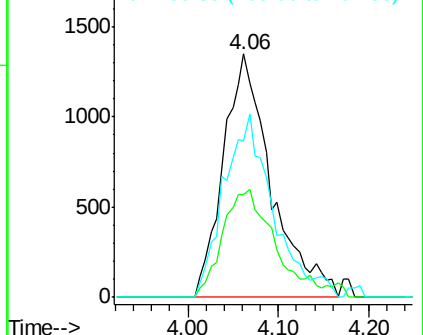
151 74.2 60.3 90.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.779 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

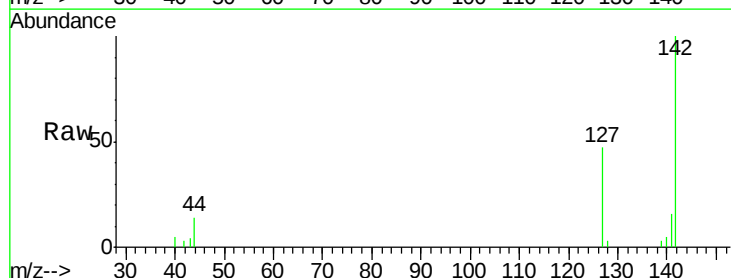
Tgt Ion:142 Resp: 7019

Ion Ratio Lower Upper

142 100

127 43.2 36.1 54.1

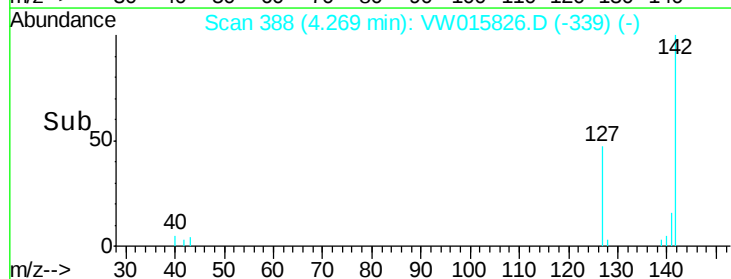
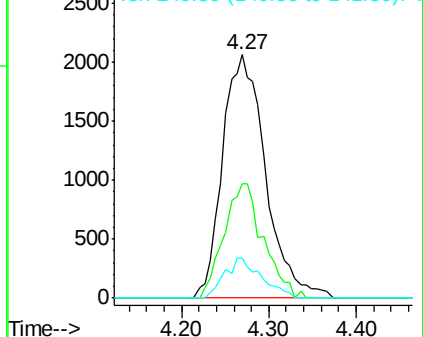
141 14.1 11.7 17.5

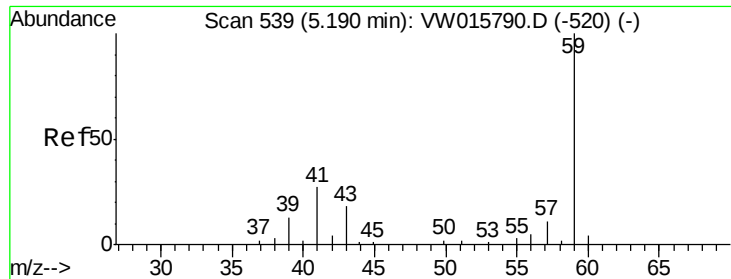


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

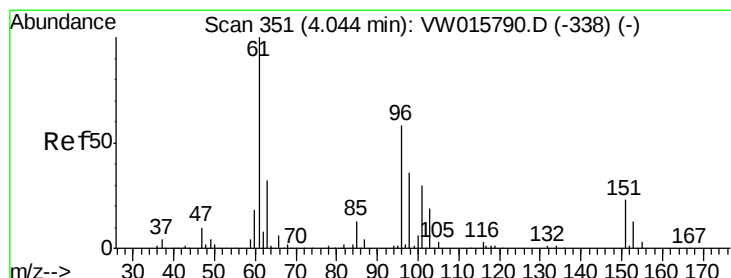
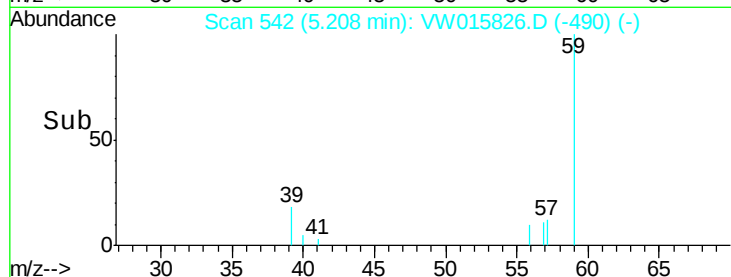
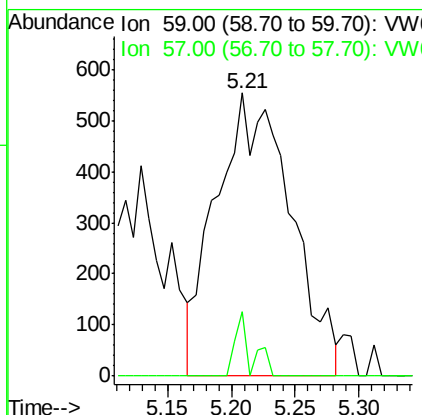
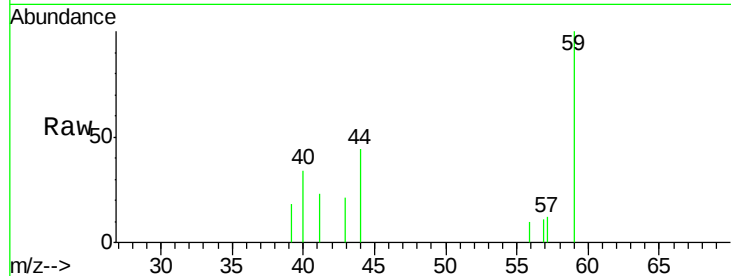




#11
Tert butyl alcohol
Concen: 20.248 ug/l m
RT: 5.21 min Scan# 542
Delta R.T. 0.02 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

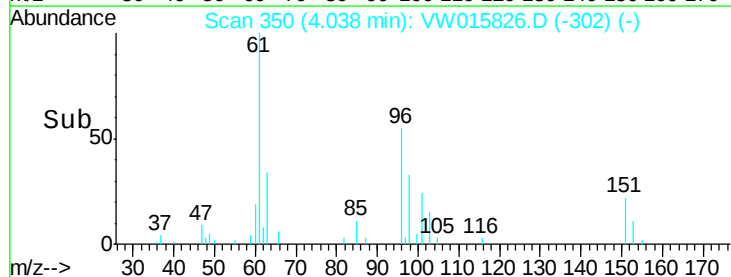
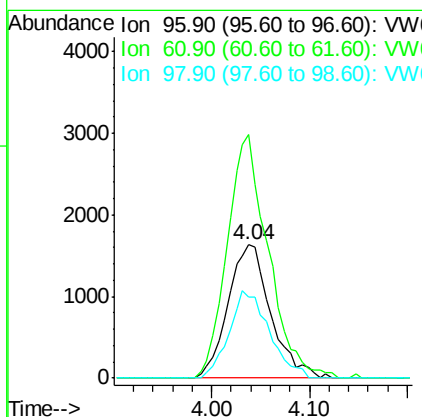
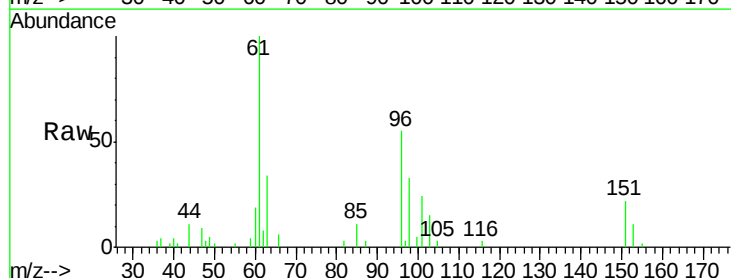
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

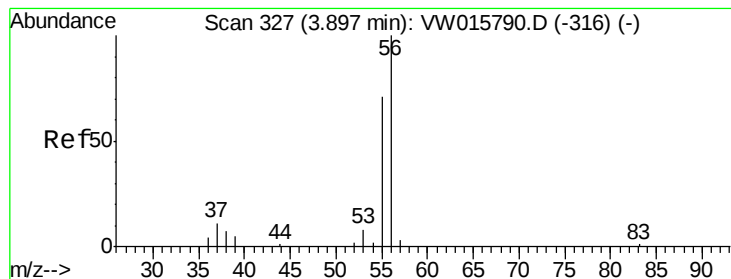
Tot Ion: 59 Resp: 2264
Ion Ratio Lower Upper
59 100
57 4.9 8.7 13.1#



#12
1,1-Dichloroethene
Concen: 2.781 ug/l
RT: 4.04 min Scan# 350
Delta R.T. -0.01 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion: 96 Resp: 4939
Ion Ratio Lower Upper
96 100
61 182.4 137.0 205.4
98 60.6 49.3 73.9





#13

Acrolein

Concen: 11.353 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

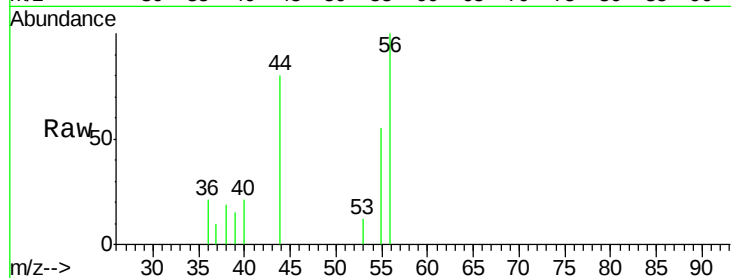
MDL-SOIL-03-QT3-2020DL

Tot Ion: 56 Resp: 1577

Ion Ratio Lower Upper

56 100

55 70.0 55.8 83.6



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.90

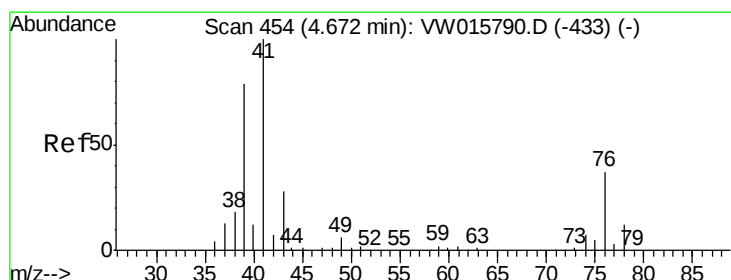
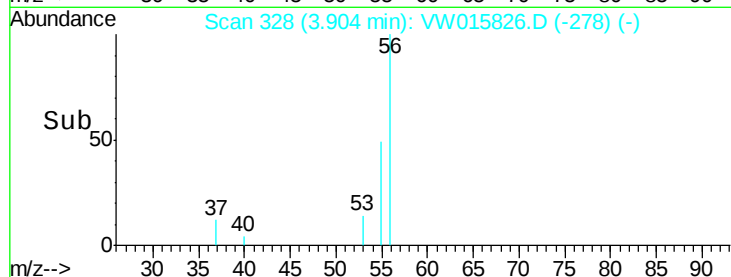
600

400

200

0

Time-->



#14

Allyl chloride

Concen: 2.601 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

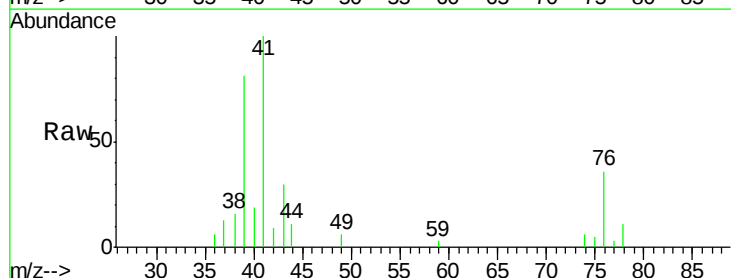
Tgt Ion: 41 Resp: 7510

Ion Ratio Lower Upper

41 100

39 85.0 64.0 96.0

76 35.4 28.9 43.3



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

4.67

3000

2500

2000

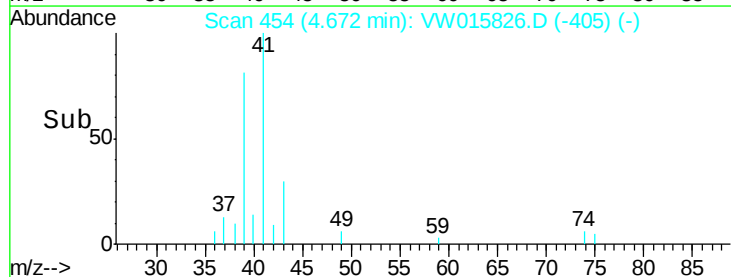
1500

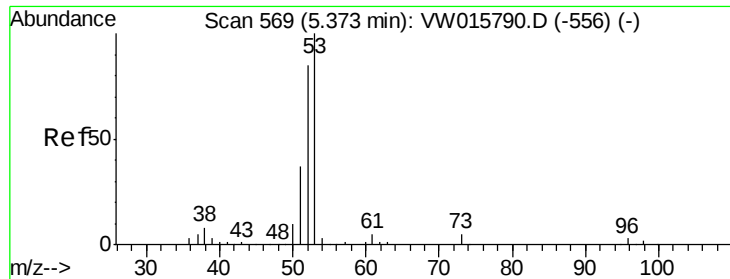
1000

500

0

Time-->





#15

Acrylonitrile

Concen: 13.087 ug/l

RT: 5.38 min Scan# 571

Delta R.T. 0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

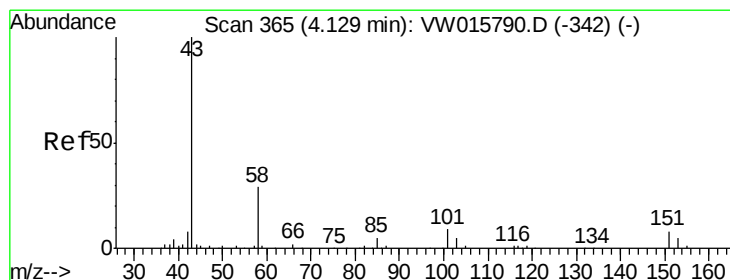
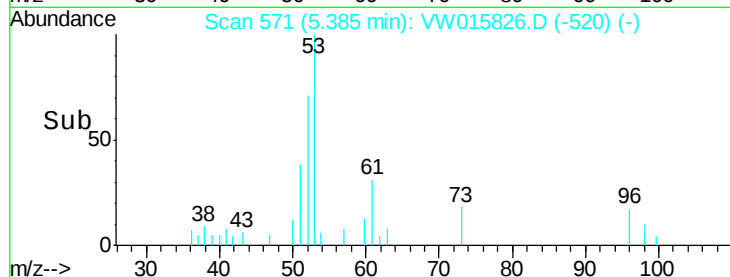
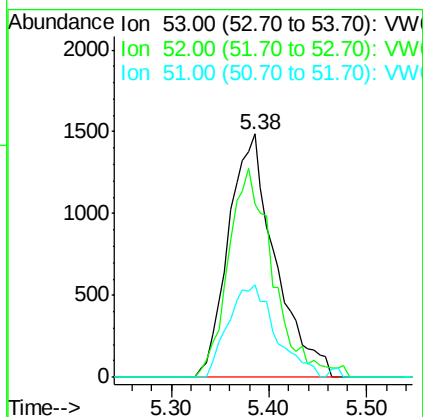
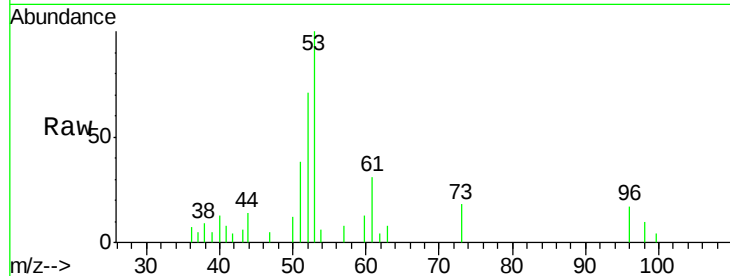
Tot Ion: 53 Resp: 4920

Ion Ratio Lower Upper

53 100

52 82.4 65.8 98.8

51 38.4 30.2 45.2



#16

Acetone

Concen: 18.737 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW015826.D

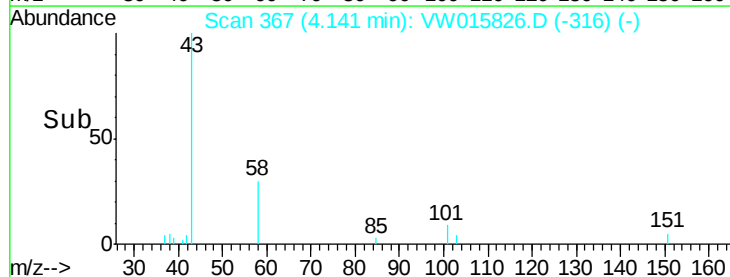
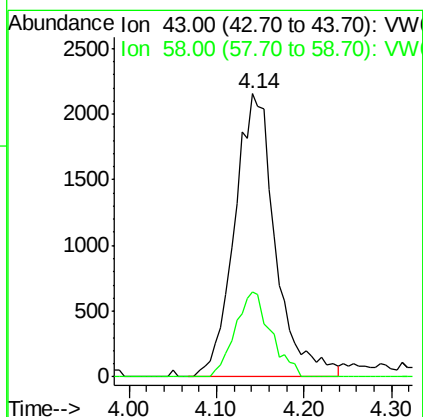
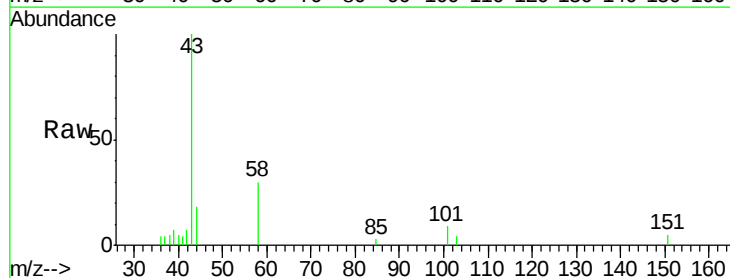
Acq: 09 Jul 2020 14:17

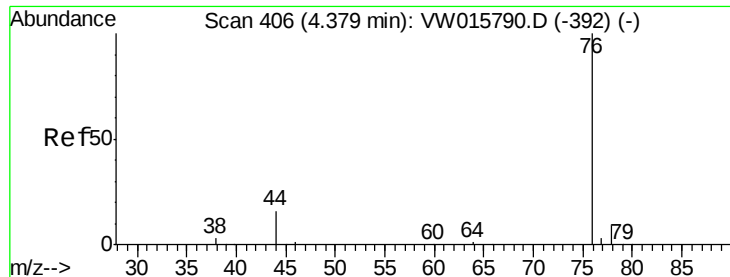
Tgt Ion: 43 Resp: 7020

Ion Ratio Lower Upper

43 100

58 29.8 23.5 35.3

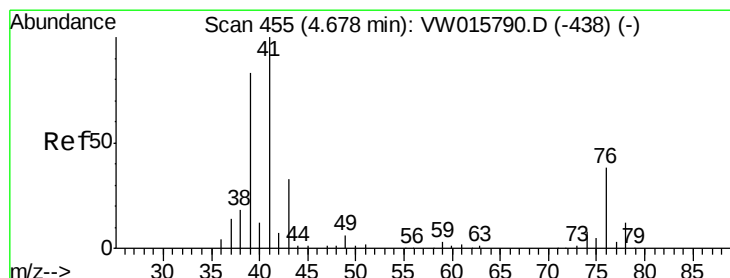
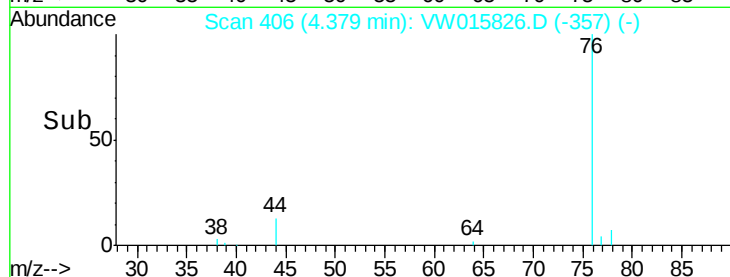
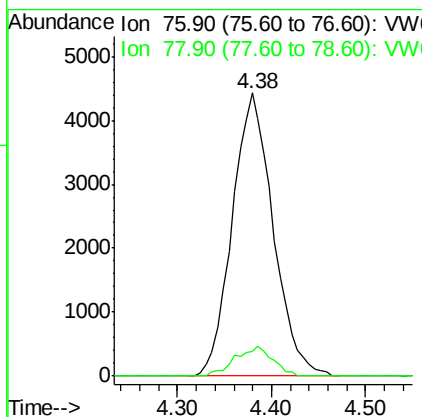
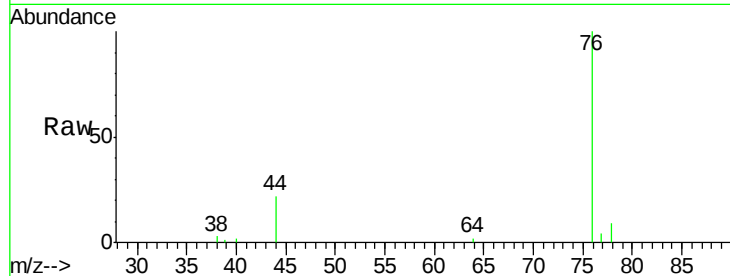




#17
Carbon Disulfide
Concen: 2.538 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

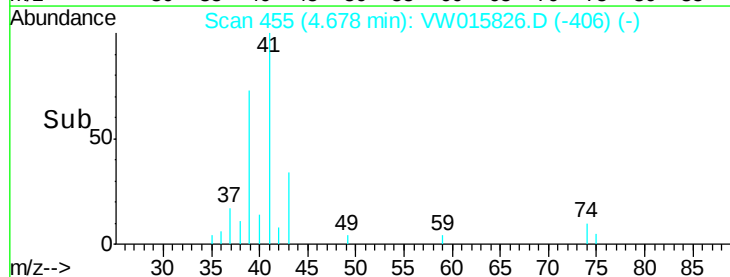
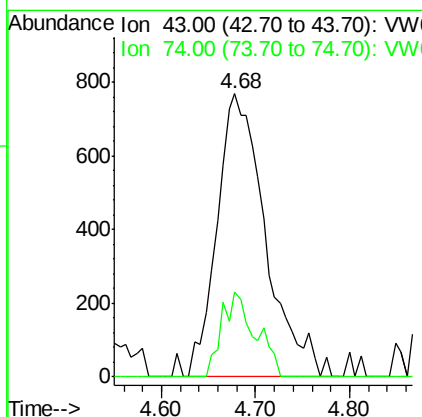
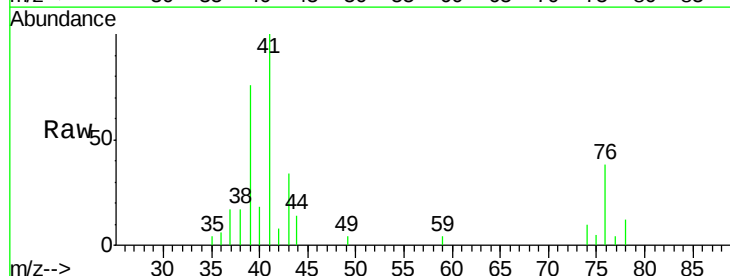
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

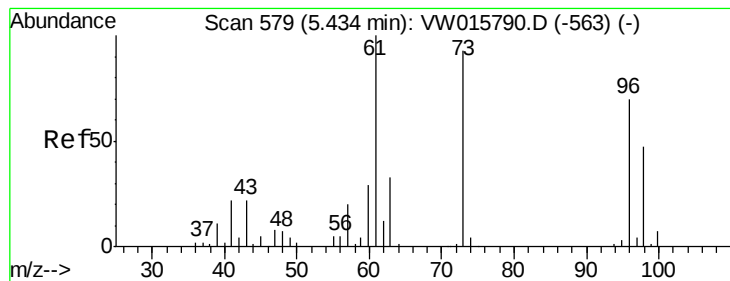
Tot Ion: 76 Resp: 13408
Ion Ratio Lower Upper
76 100
78 8.7 7.4 11.0



#18
Methyl Acetate
Concen: 3.234 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion: 43 Resp: 2757
Ion Ratio Lower Upper
43 100
74 20.8 19.2 28.8



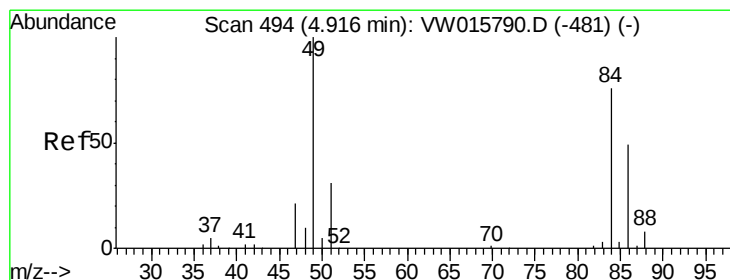
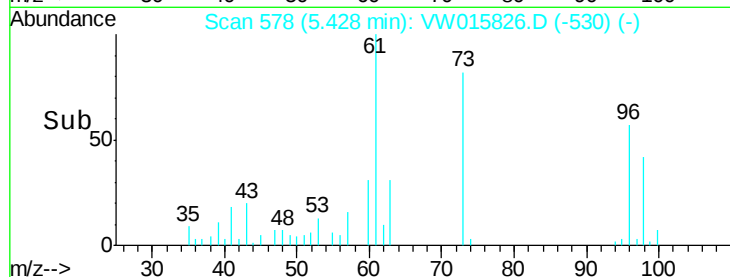
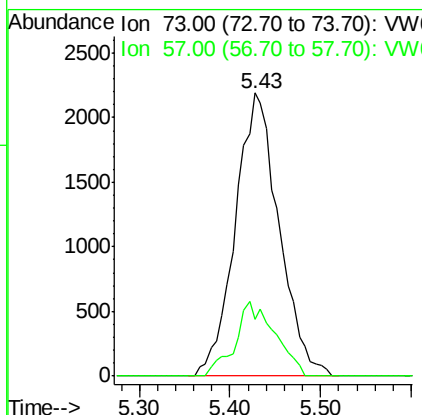
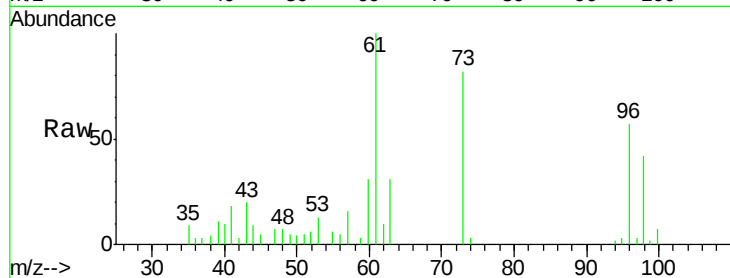


#19

Methyl tert-butyl Ether
 Concen: 2.755 ug/l
 RT: 5.43 min Scan# 578
 Delta R.T. -0.01 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

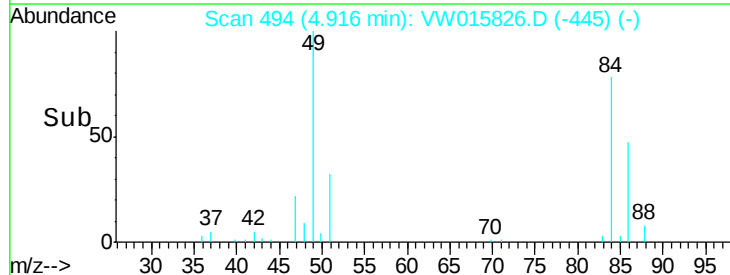
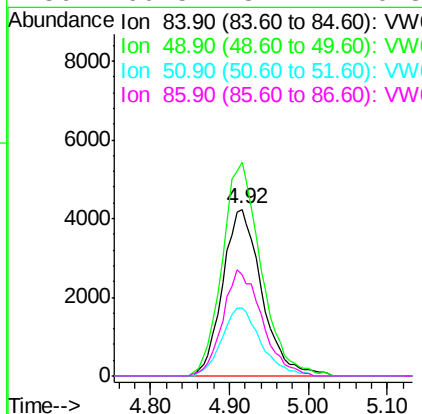
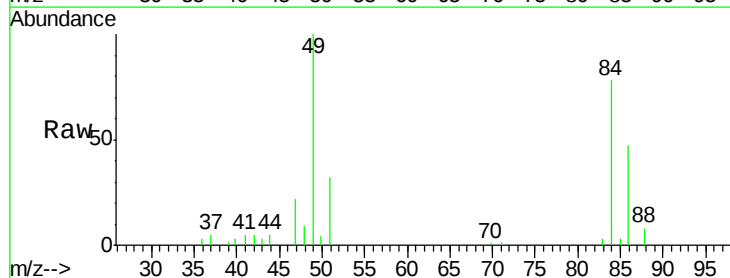
Tot Ion: 73 Resp: 7323
 Ion Ratio Lower Upper
 73 100
 57 20.0 16.8 25.2

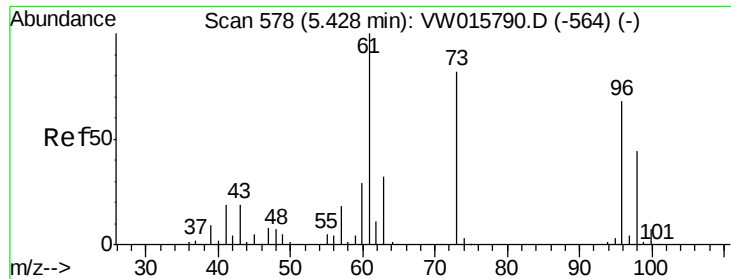


#20

Methylene Chloride
 Concen: 6.721 ug/l
 RT: 4.92 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Tgt Ion: 84 Resp: 14623
 Ion Ratio Lower Upper
 84 100
 49 128.1 105.0 157.6
 51 40.8 32.3 48.5
 86 60.5 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 2.608 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

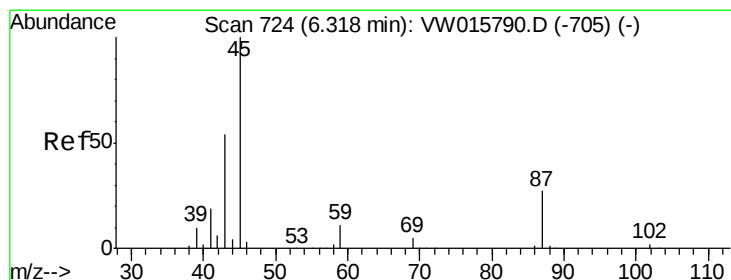
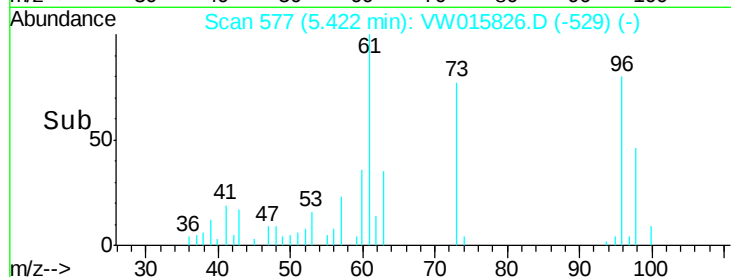
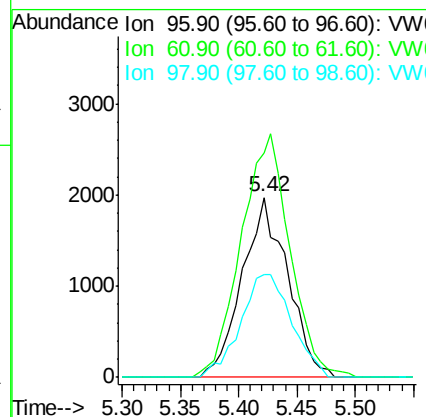
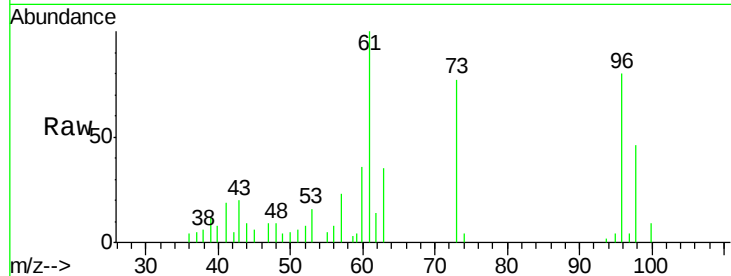
Tot Ion: 96 Resp: 5366

Ion Ratio Lower Upper

96 100

61 124.4 118.1 177.1

98 57.0 52.6 78.8



#22

Diisopropyl ether

Concen: 2.478 ug/l

RT: 6.32 min Scan# 724

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Tgt Ion: 45 Resp: 14415

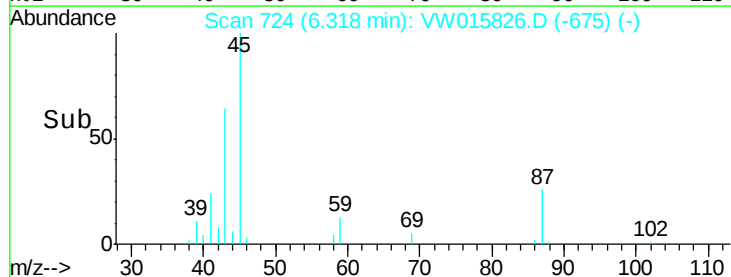
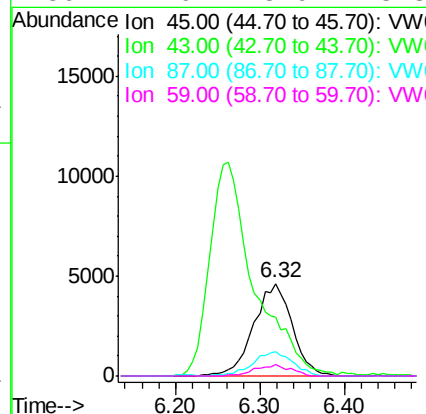
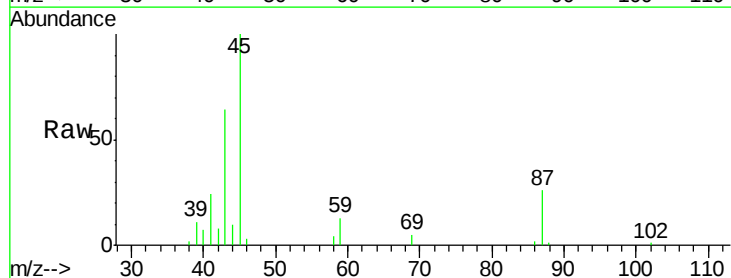
Ion Ratio Lower Upper

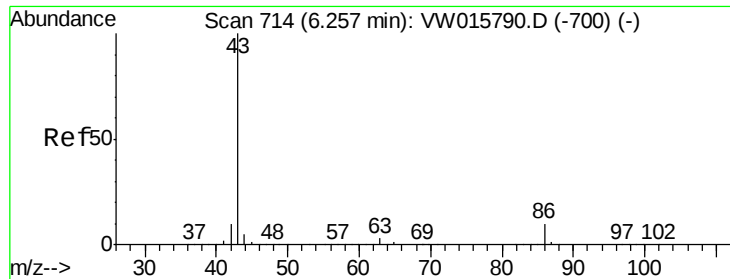
45 100

43 60.4 43.8 65.6

87 25.9 22.1 33.1

59 12.9 8.9 13.3





#23

Vinyl Acetate

Concen: 11.263 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

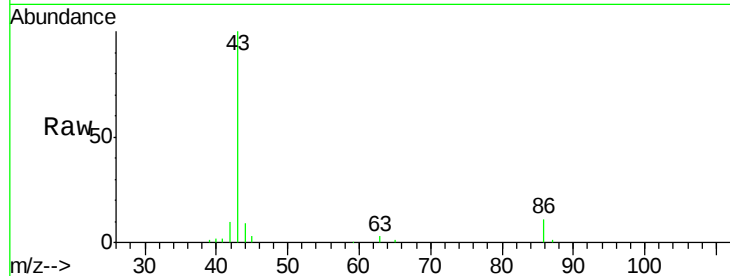
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 38973

Ion Ratio Lower Upper

43 100

86 10.6 8.2 12.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.26

12000

10000

8000

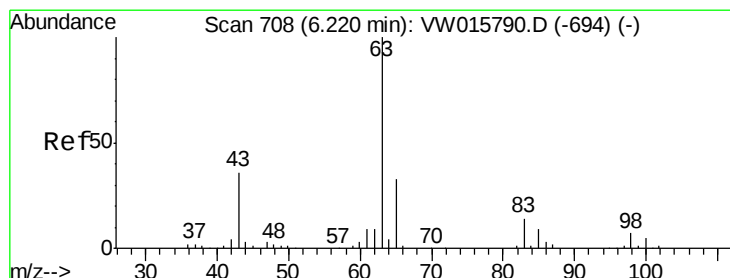
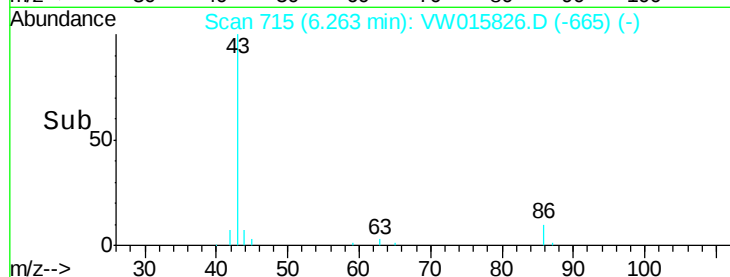
6000

4000

2000

0

Time--> 6.10 6.20 6.30 6.40



#24

1,1-Dichloroethane

Concen: 2.637 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

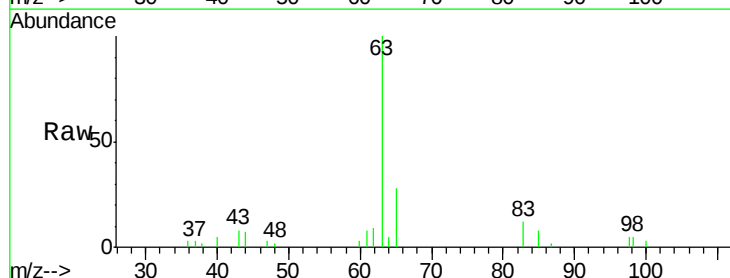
Tgt Ion: 63 Resp: 9713

Ion Ratio Lower Upper

63 100

98 9.8 3.4 10.2

100 2.9 2.4 7.1



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

4000

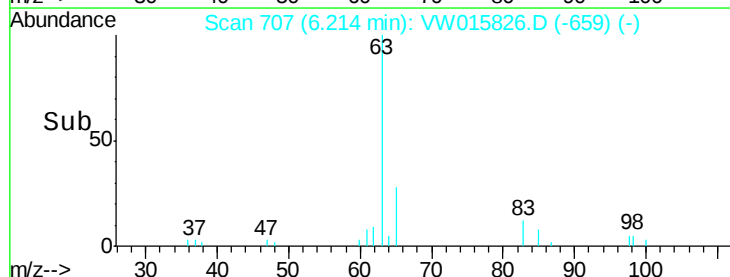
3000

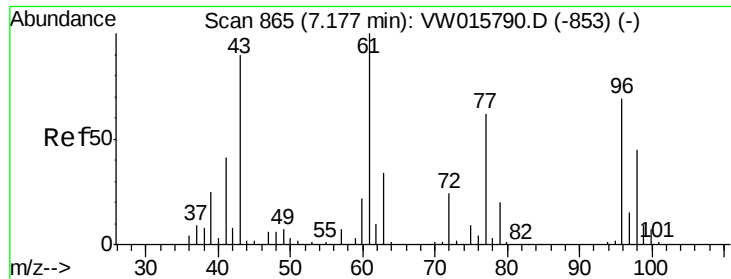
2000

1000

0

Time--> 6.10 6.15 6.20 6.25 6.30





#25

2-Butanone

Concen: 16.435 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

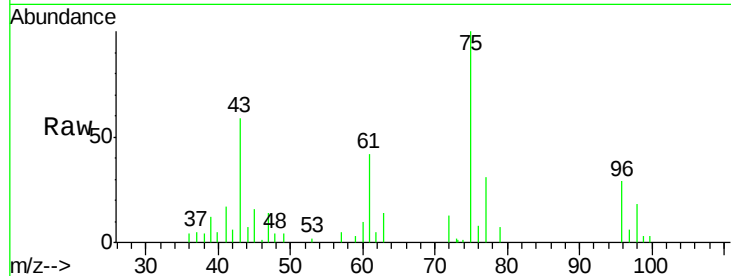
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 8358

Ion Ratio Lower Upper

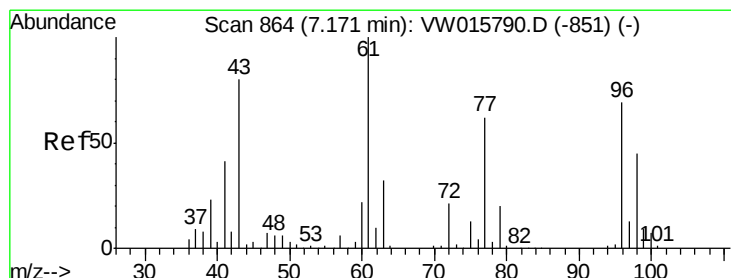
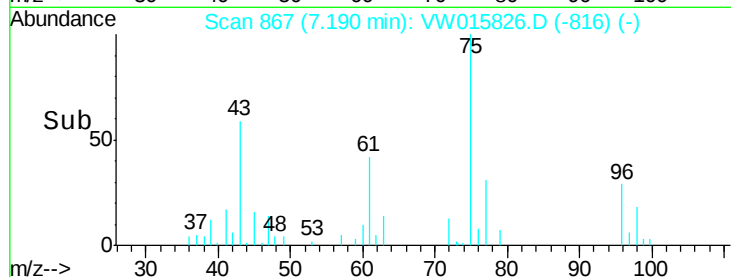
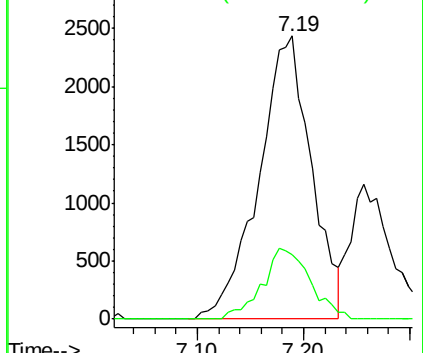
43 100

72 22.7 21.3 31.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 3.610 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW015826.D

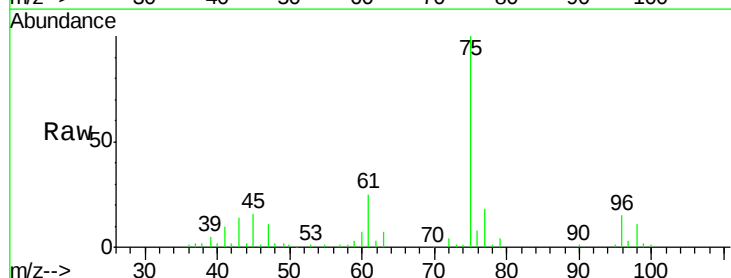
Acq: 09 Jul 2020 14:17

Tgt Ion: 77 Resp: 8341

Ion Ratio Lower Upper

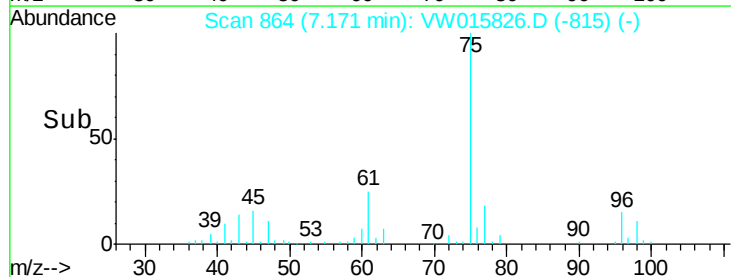
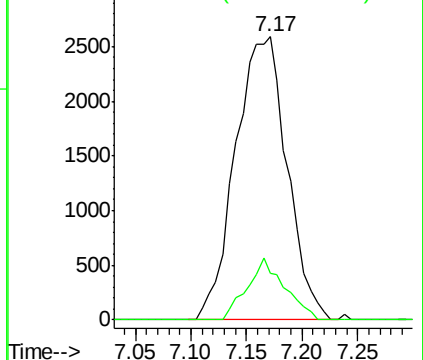
77 100

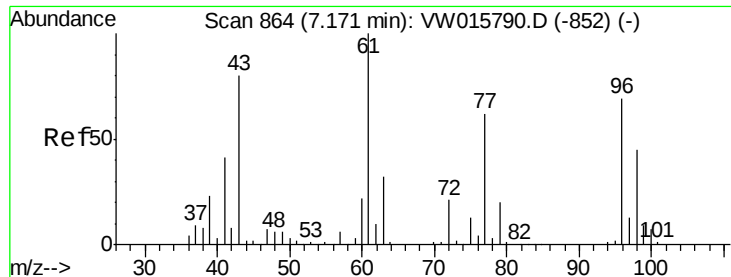
97 15.8 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

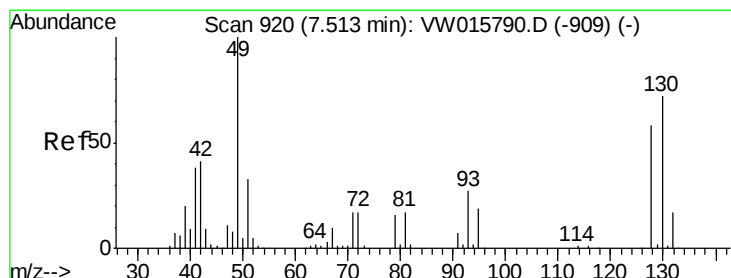
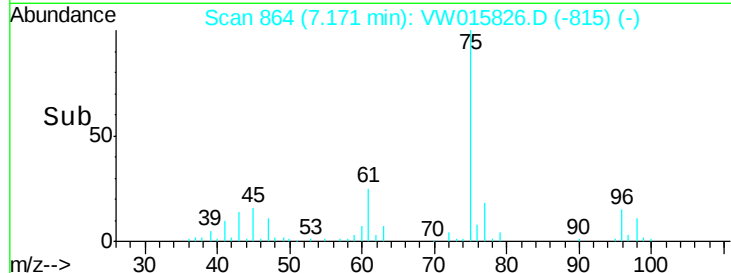
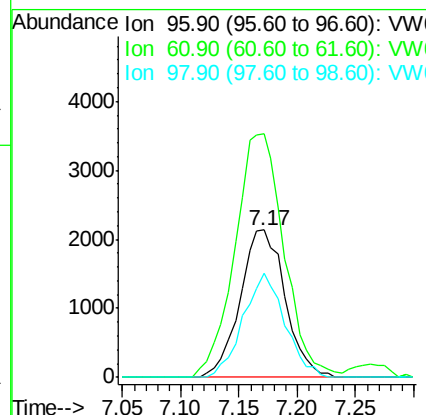
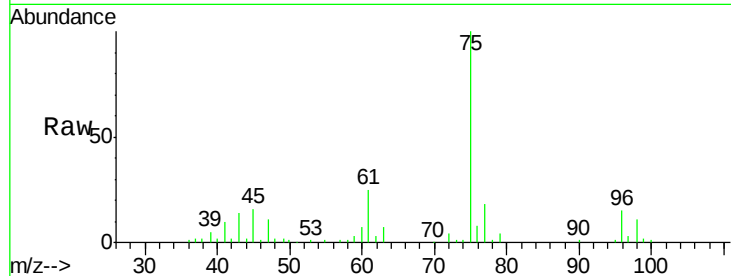




#27
 cis-1,2-Dichloroethene
 Concen: 2.598 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

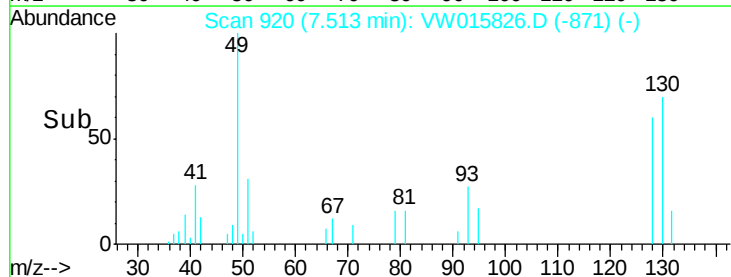
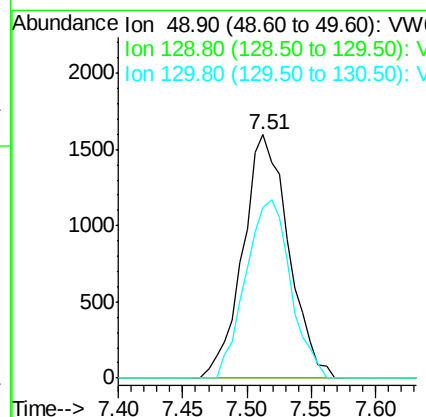
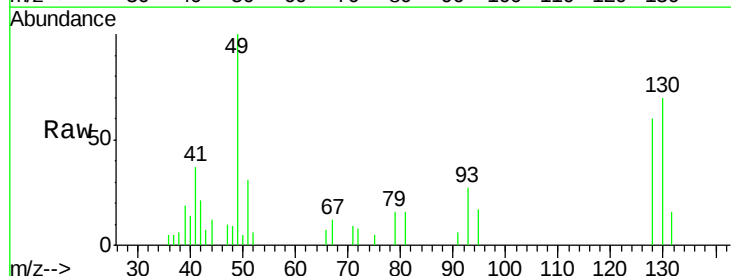
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

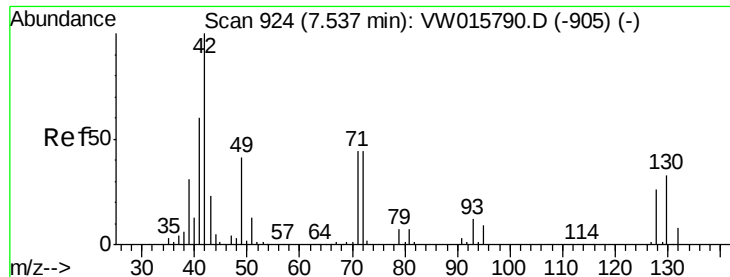
Tot Ion: 96 Resp: 5739
 Ion Ratio Lower Upper
 96 100
 61 180.2 0.0 292.2
 98 65.6 0.0 129.0



#28
 Bromochloromethane
 Concen: 2.690 ug/l
 RT: 7.51 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Tgt Ion: 49 Resp: 3928
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 2.6
 130 71.6 59.5 89.3

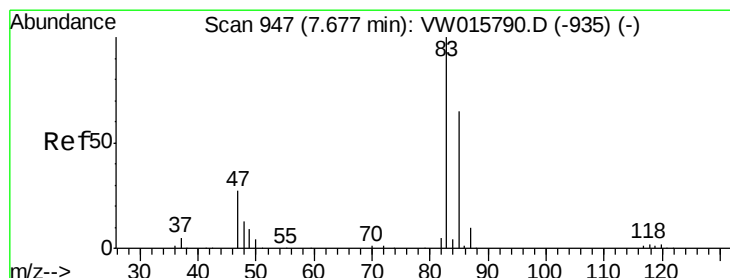
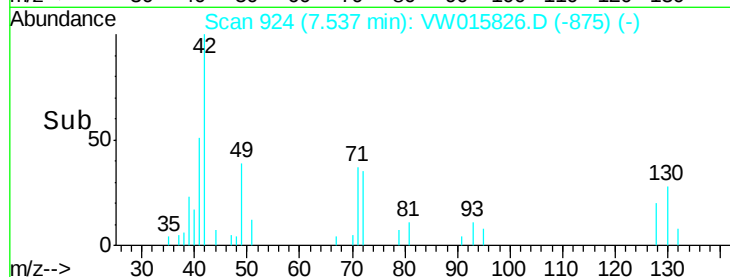
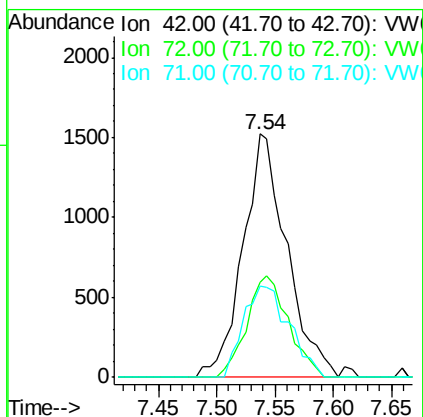
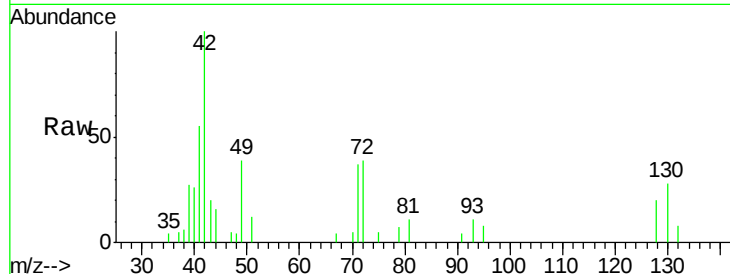




#29
Tetrahydrofuran
Concen: 12.923 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

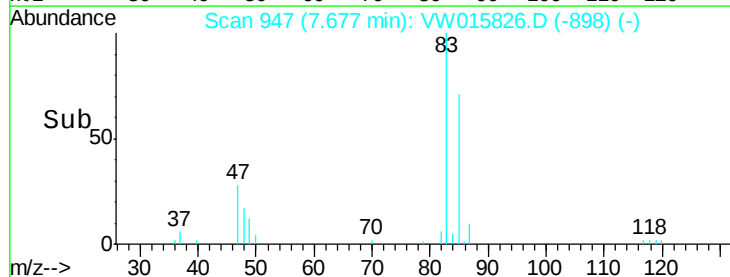
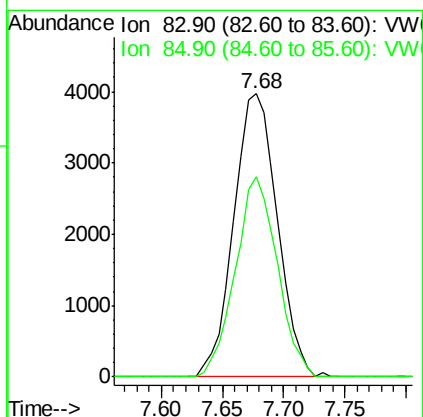
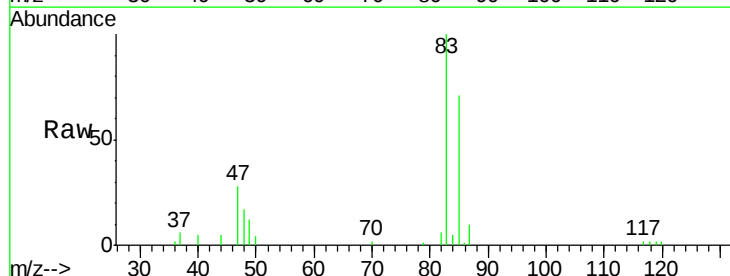
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

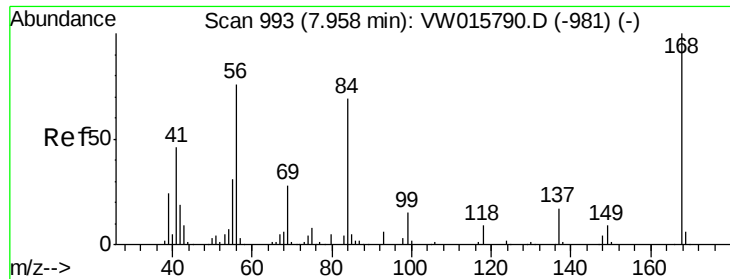
Tot Ion: 42 Resp: 3988
Ion Ratio Lower Upper
42 100
72 39.6 34.6 51.8
71 39.2 32.8 49.2



#30
Chloroform
Concen: 2.609 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion: 83 Resp: 9824
Ion Ratio Lower Upper
83 100
85 70.6 51.6 77.4

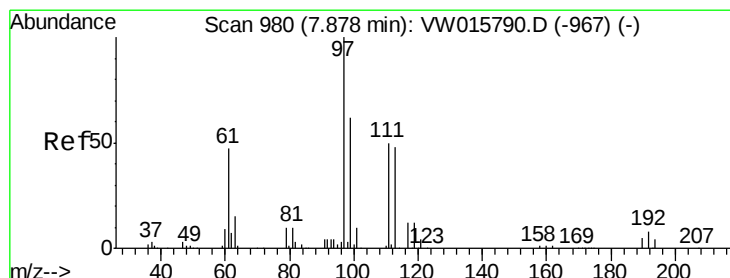
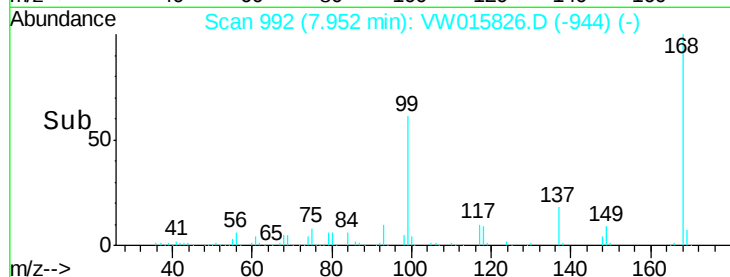
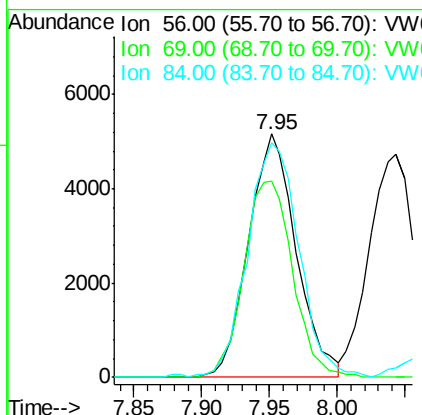
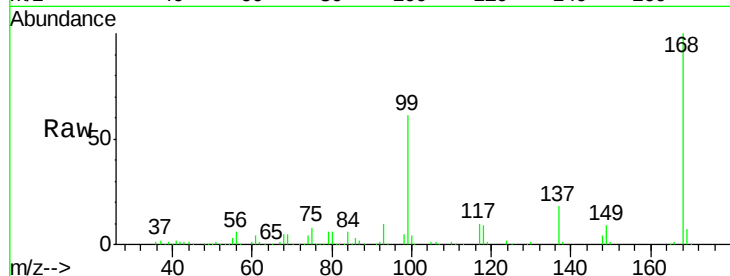




#31
Cyclohexane
Concen: 3.656 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

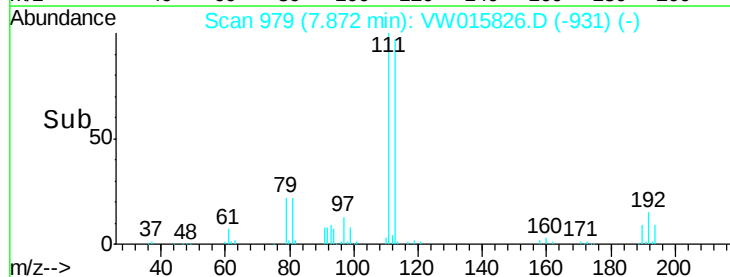
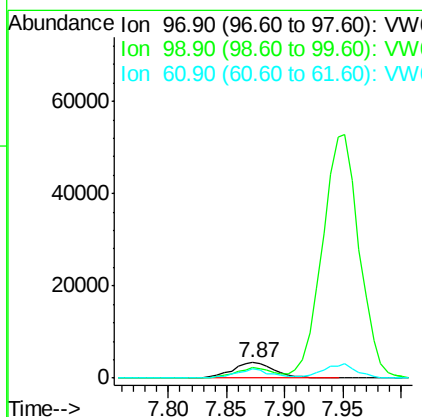
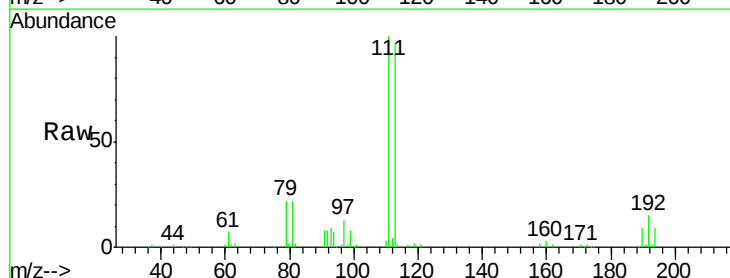
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

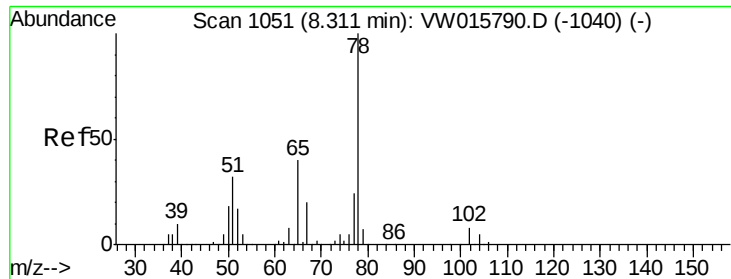
Tot Ion: 56 Resp: 12674
Ion Ratio Lower Upper
56 100
69 80.7 28.9 43.3#
84 96.5 72.2 108.4



#32
1,1,1-Trichloroethane
Concen: 2.667 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.01 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion: 97 Resp: 8421
Ion Ratio Lower Upper
97 100
99 64.3 51.0 76.4
61 51.5 38.6 57.8





#33

1,2-Dichloroethane-d4

Concen: 49.598 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

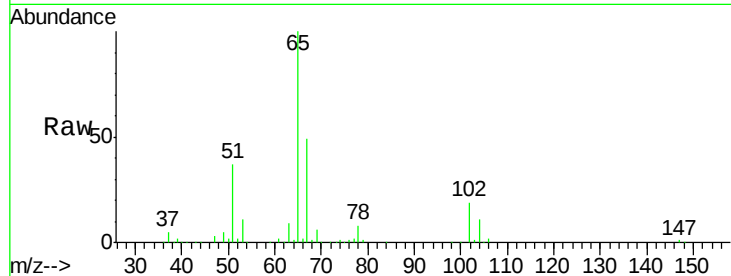
MDL-SOIL-03-QT3-2020DL

Tot Ion: 65 Resp: 99313

Ion Ratio Lower Upper

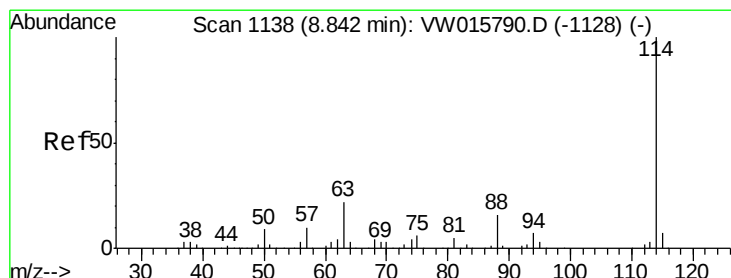
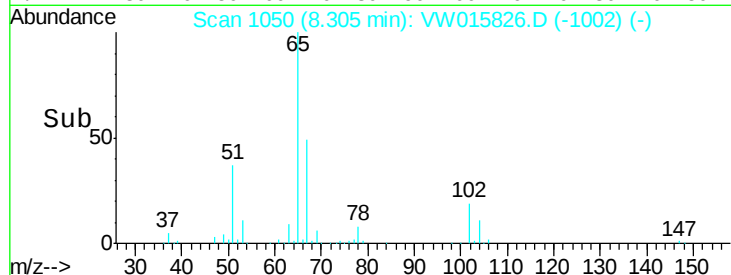
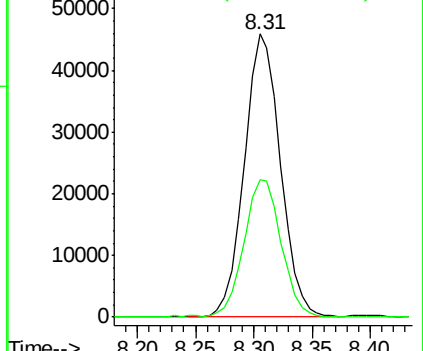
65 100

67 50.0 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

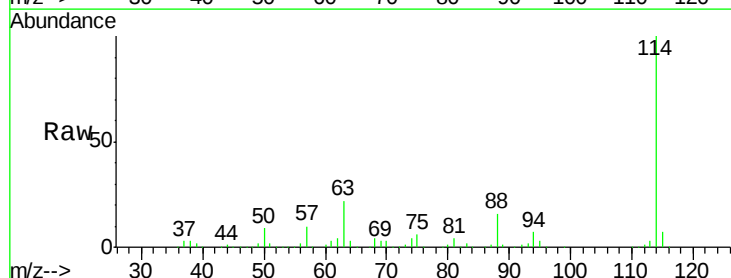
Tgt Ion: 114 Resp: 309956

Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.4

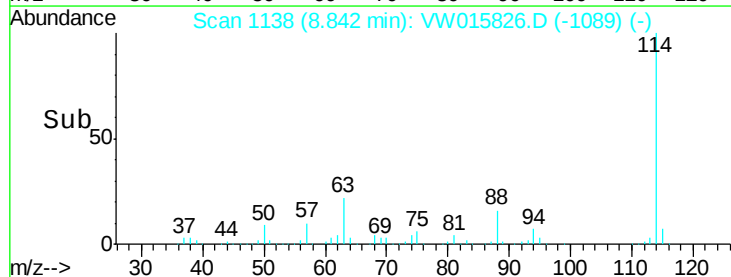
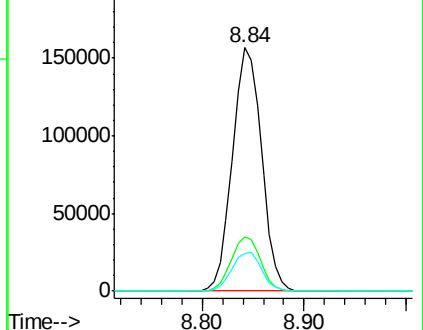
88 15.6 0.0 32.6

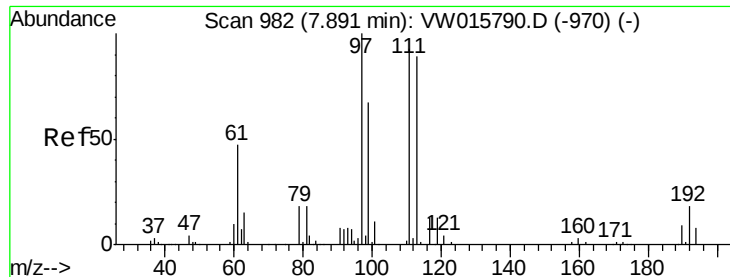


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

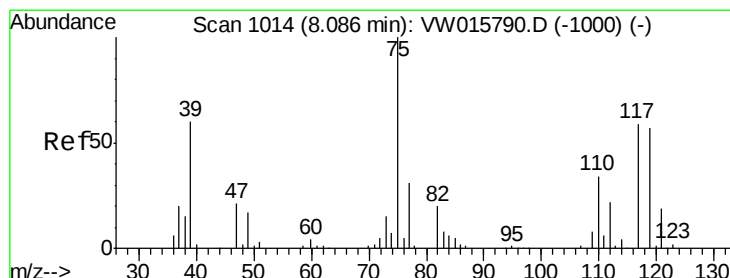
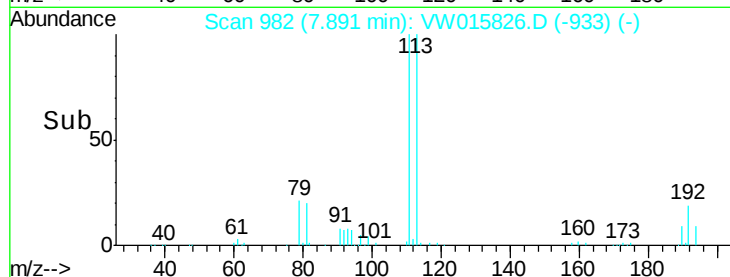
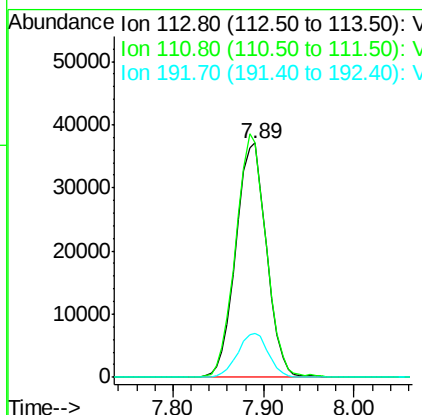
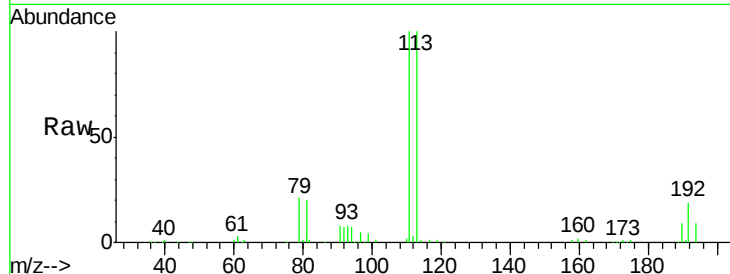




#35
 Dibromofluoromethane
 Concen: 48.232 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

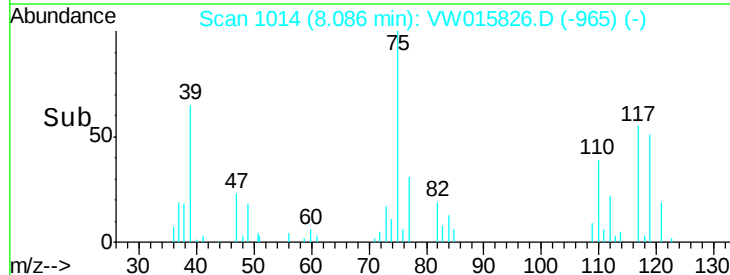
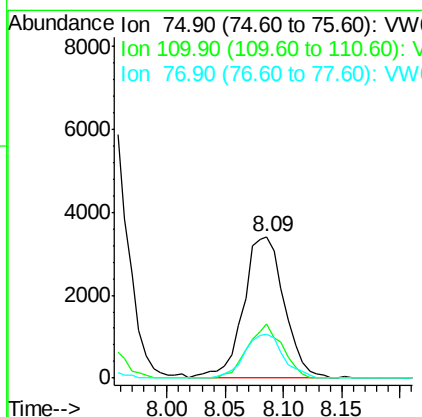
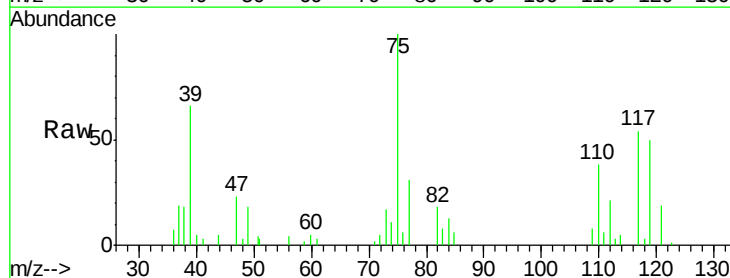
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

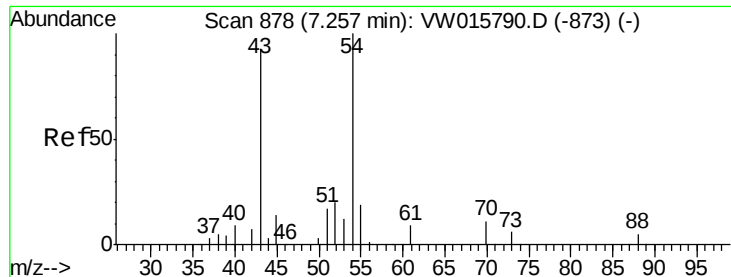
Tot Ion:113 Resp: 87219
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.8 124.2
 192 18.8 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 2.717 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Tgt Ion: 75 Resp: 8301
 Ion Ratio Lower Upper
 75 100
 110 32.3 16.8 50.3
 77 29.6 24.7 37.1

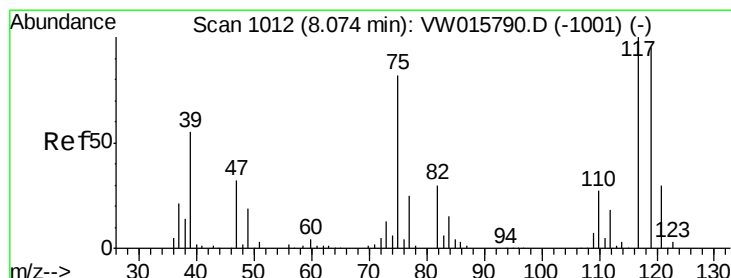
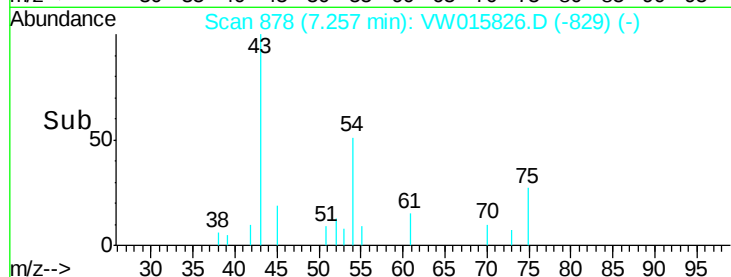
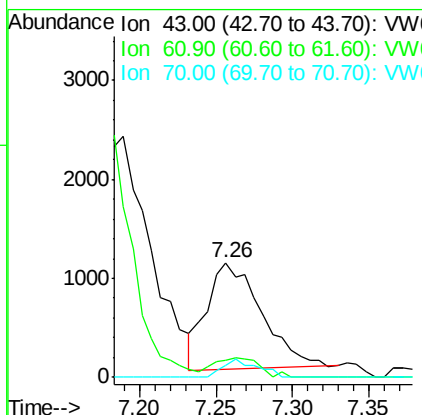
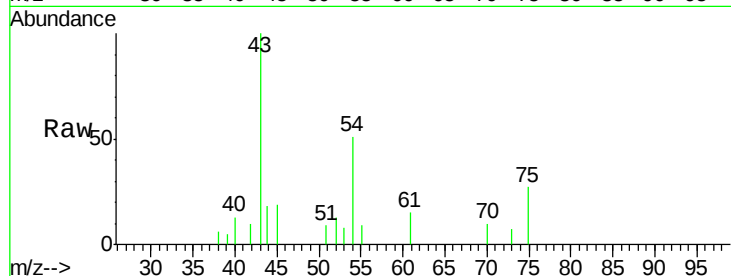




#37
Ethyl Acetate
Concen: 2.253 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

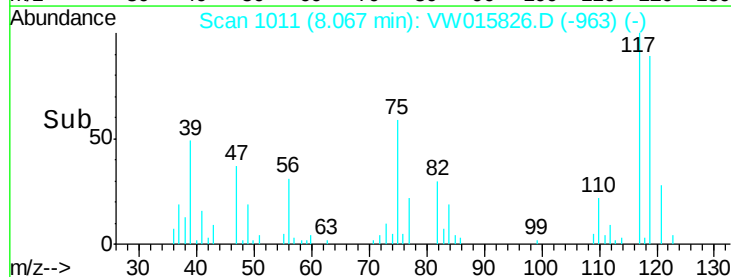
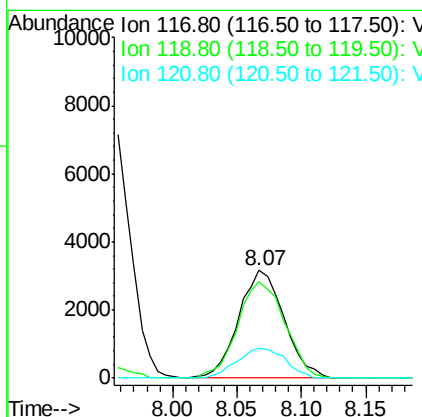
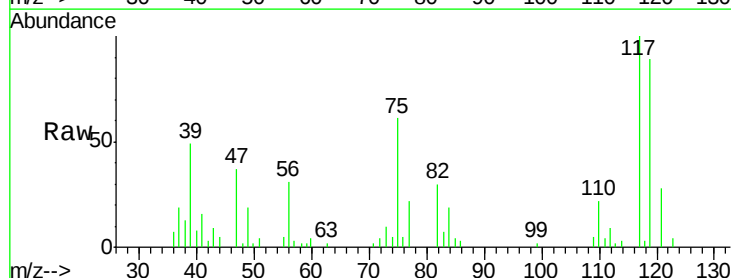
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

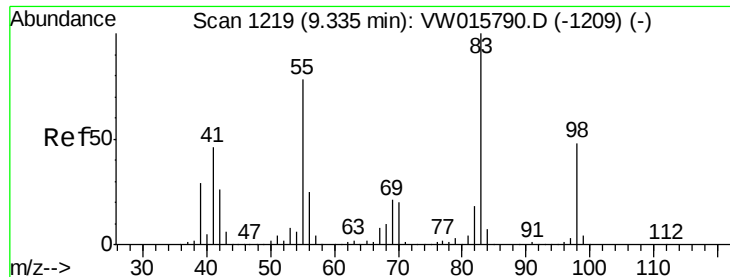
Tot Ion: 43 Resp: 2675
Ion Ratio Lower Upper
43 100
61 15.3 10.4 15.6
70 10.7 8.4 12.6



#38
Carbon Tetrachloride
Concen: 2.622 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.01 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion: 117 Resp: 7752
Ion Ratio Lower Upper
117 100
119 89.2 76.3 114.5
121 27.9 24.0 36.0

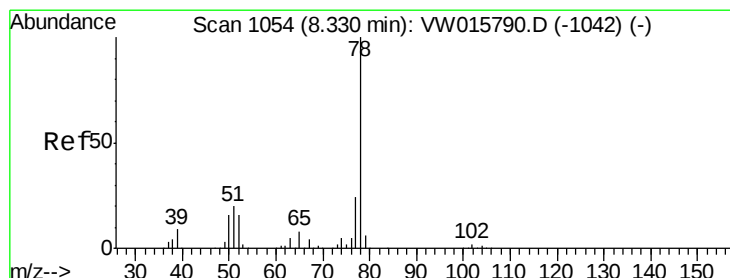
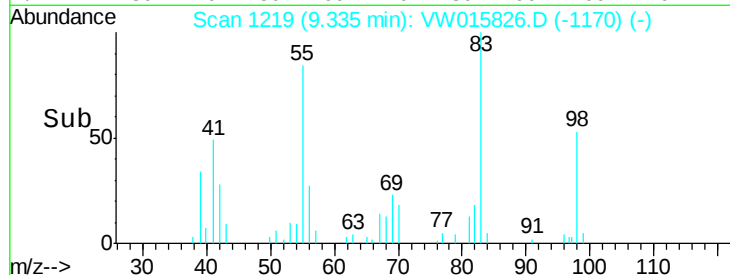
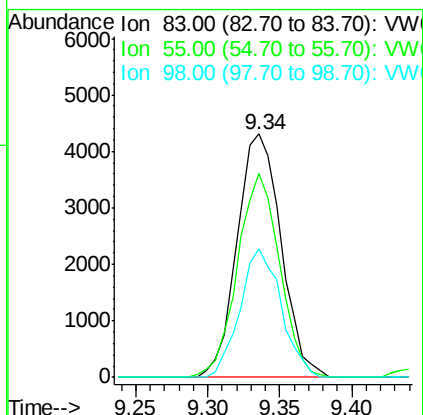
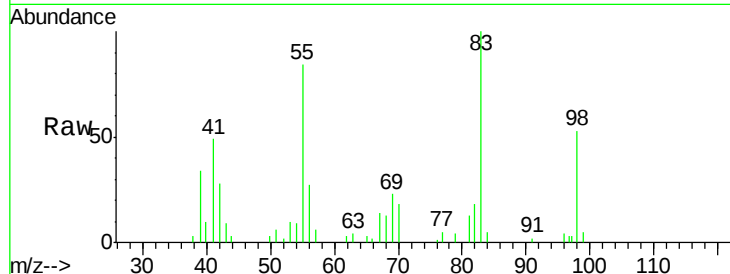




#39
Methvlcvclohexane
Concen: 2.531 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

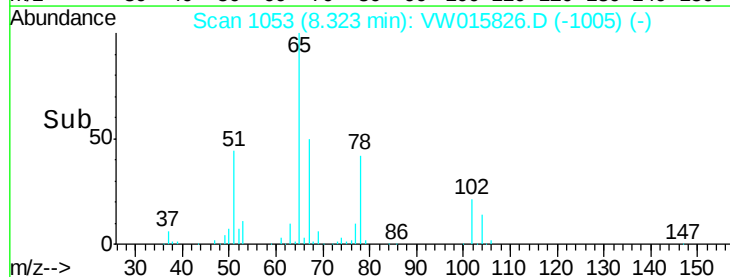
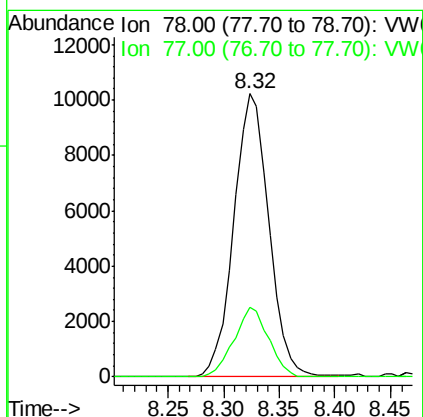
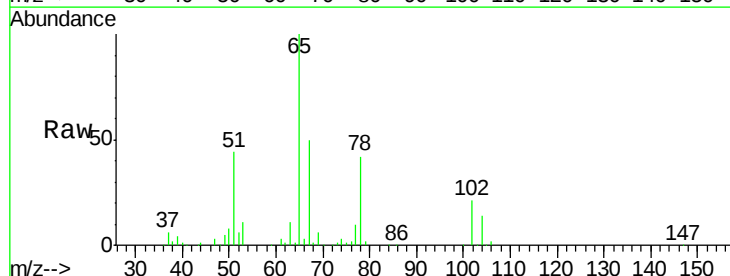
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 83 Resp: 9124
Ion Ratio Lower Upper
83 100
55 84.0 62.6 94.0
98 52.6 38.6 58.0



#40
Benzene
Concen: 2.673 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion: 78 Resp: 22371
Ion Ratio Lower Upper
78 100
77 24.6 19.0 28.6

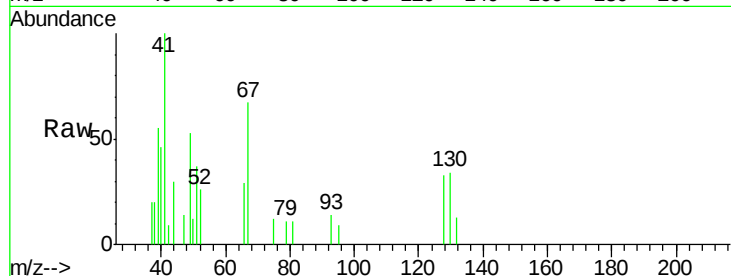




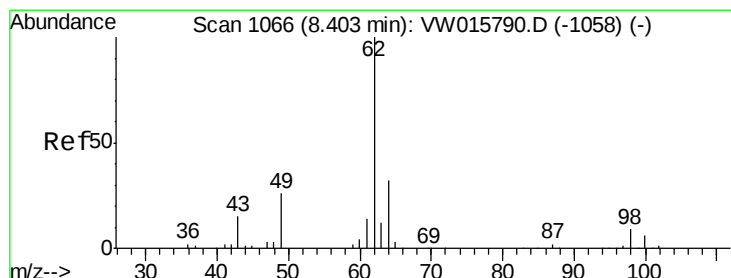
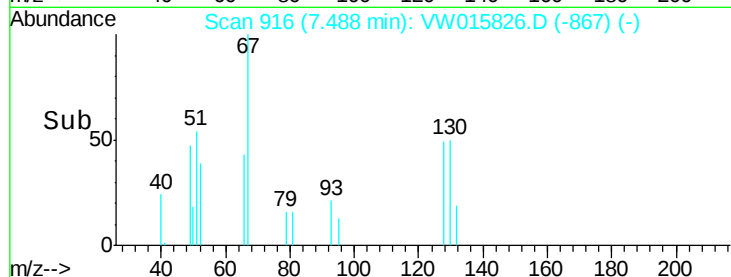
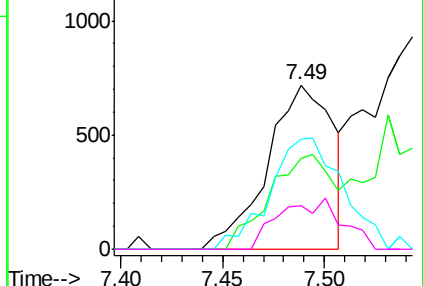
#41
Methacrylonitrile
Concen: 2.384 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion:	41	Resp:	1607
Ion	Ratio	Lower	Upper
41	100		
39	55.7	44.6	66.8
67	76.2	56.4	84.6
52	29.4	25.4	38.2

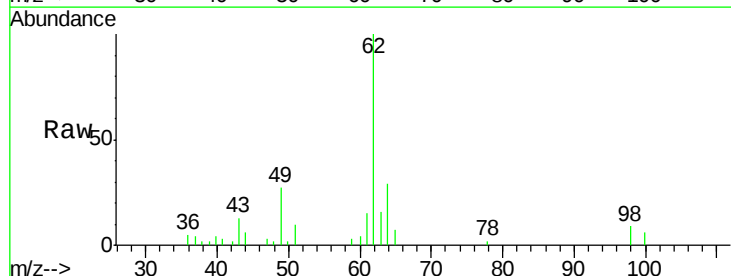


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

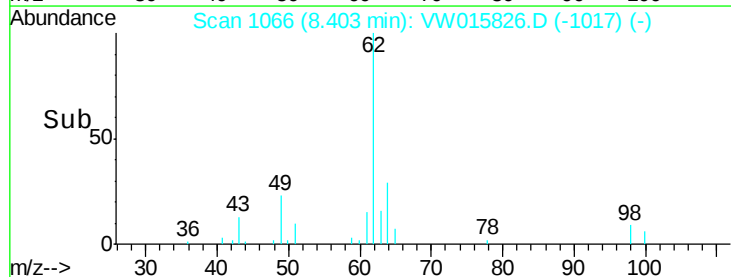
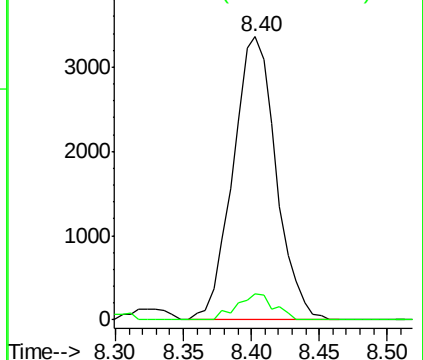


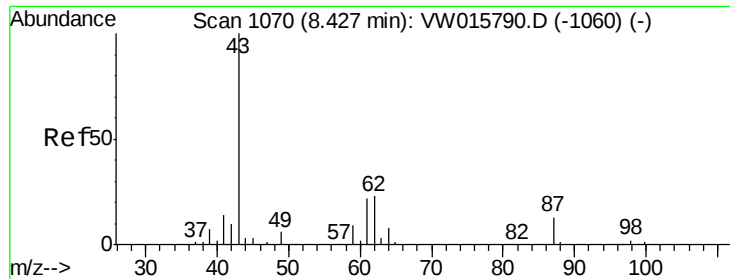
#42
1,2-Dichloroethane
Concen: 2.856 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion:	62	Resp:	7439
Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	17.2



Abundance Ion 61.90 (61.60 to 62.60): VW
Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 2.524 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

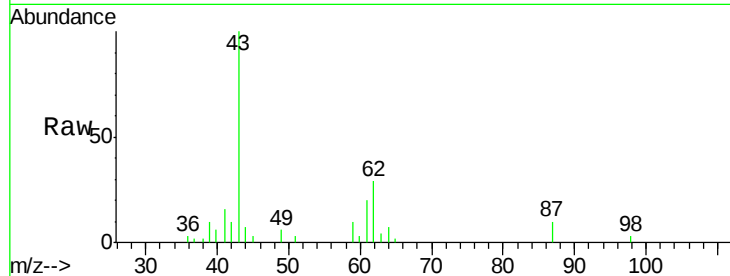
Tot Ion: 43 Resp: 5849

Ion Ratio Lower Upper

43 100

61 30.7 24.8 37.2

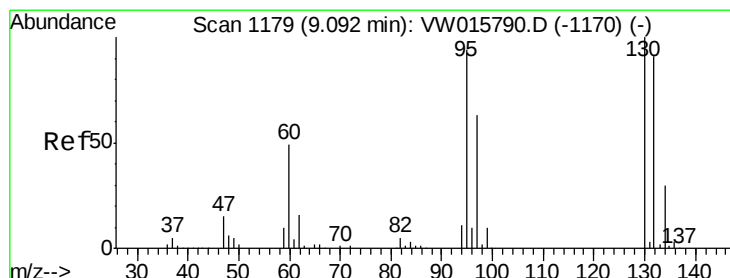
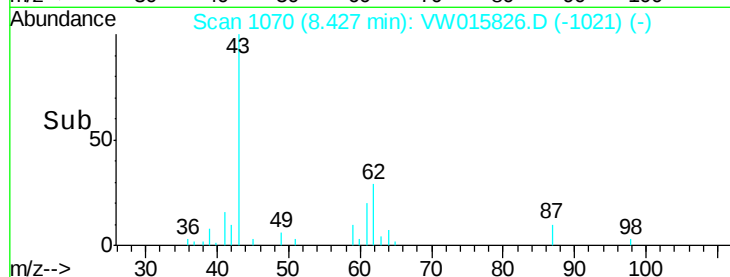
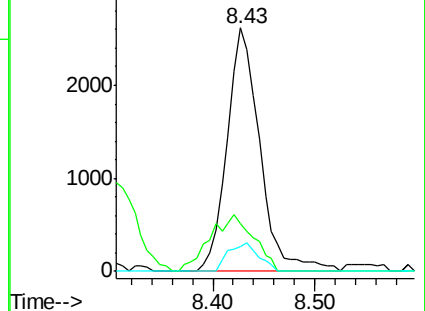
87 10.7 10.4 15.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 2.663 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW015826.D

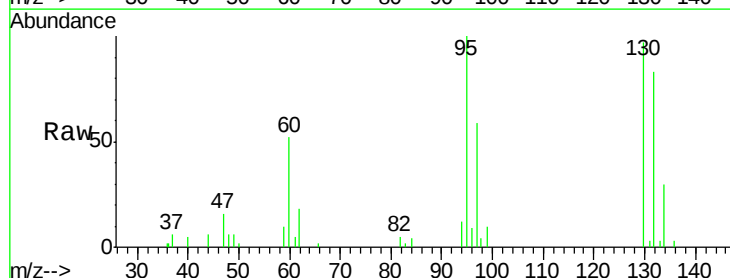
Acq: 09 Jul 2020 14:17

Tgt Ion: 130 Resp: 5895

Ion Ratio Lower Upper

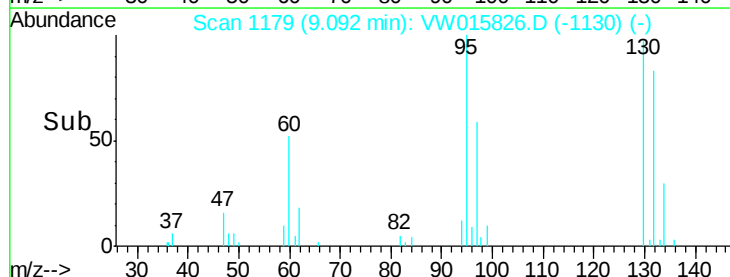
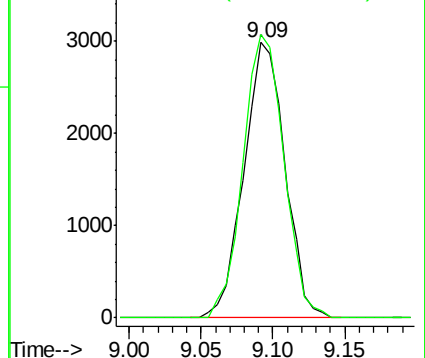
130 100

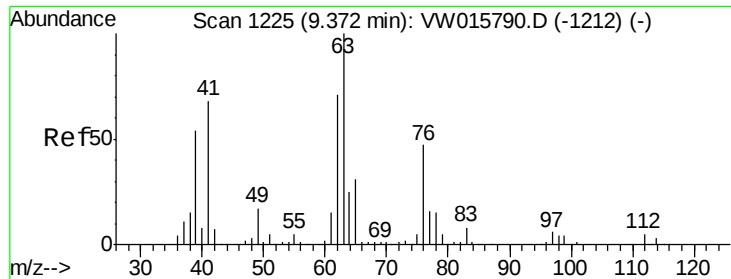
95 102.7 0.0 188.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

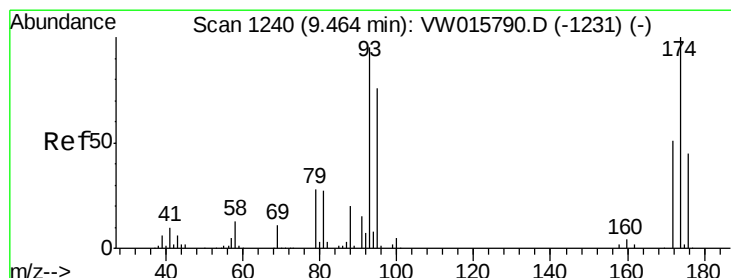
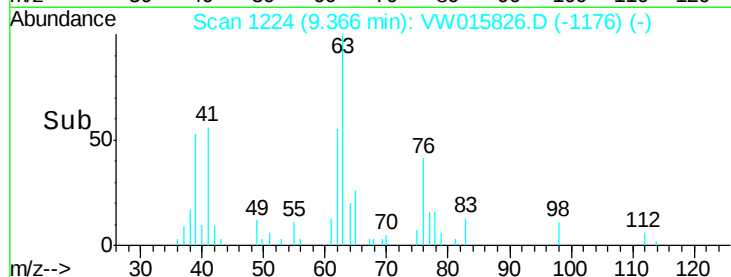
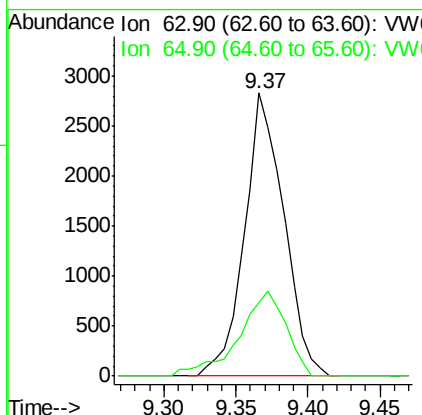
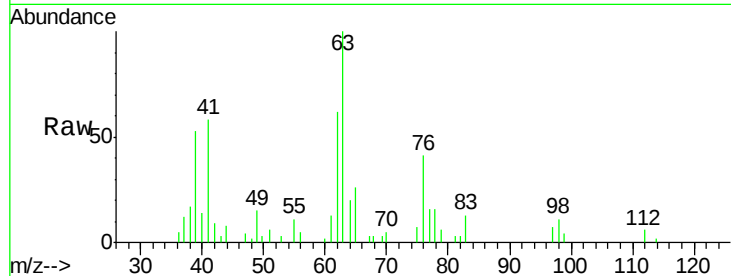




#45
 1,2-Dichloropropane
 Concen: 2.601 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.01 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

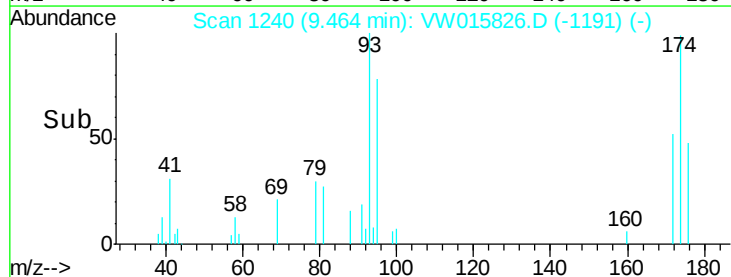
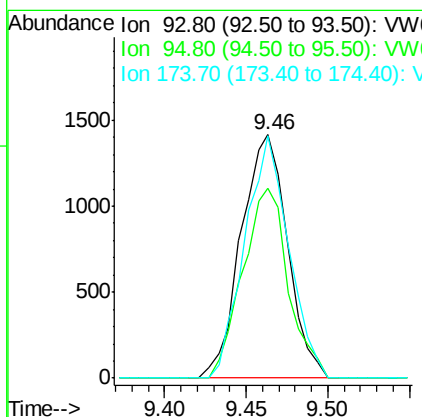
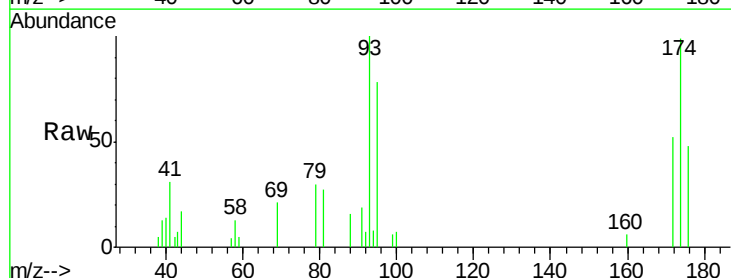
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion: 63 Resp: 5351
 Ion Ratio Lower Upper
 63 100
 65 26.2 24.5 36.7



#46
 Dibromomethane
 Concen: 2.640 ug/l
 RT: 9.46 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Tgt Ion: 93 Resp: 2796
 Ion Ratio Lower Upper
 93 100
 95 76.9 66.0 99.0
 174 94.2 78.7 118.1

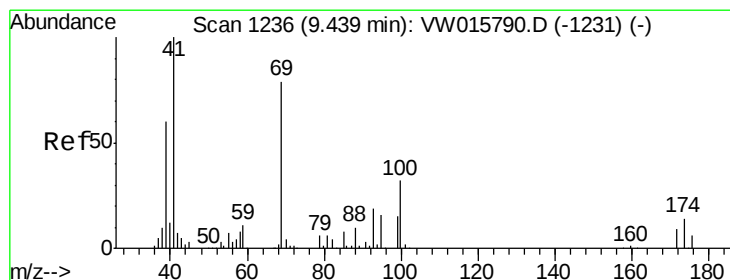
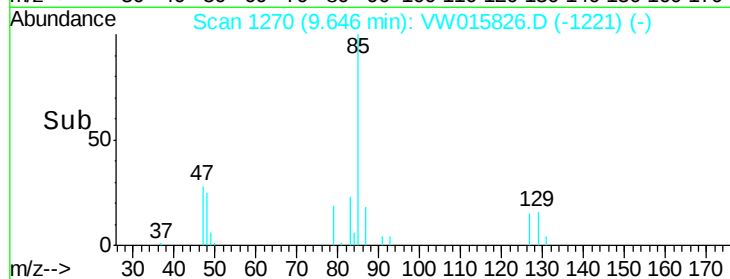
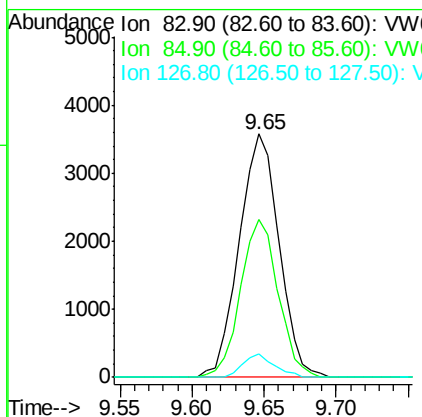
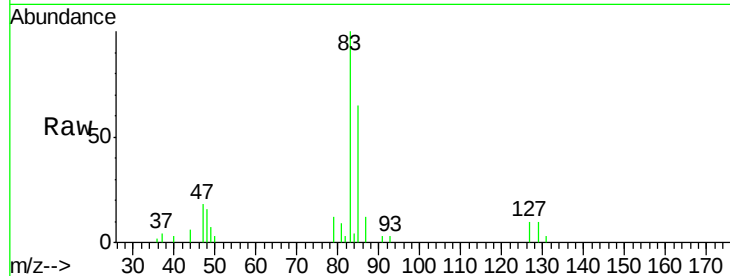




#47
Bromodichloromethane
Concen: 2.496 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

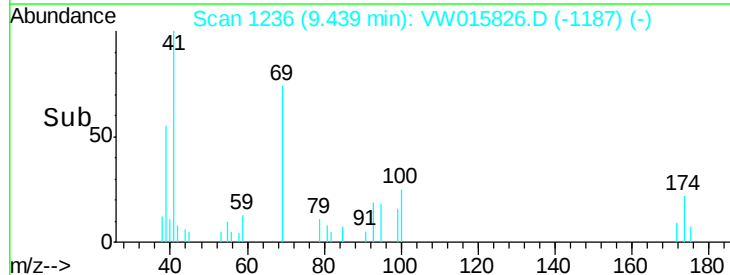
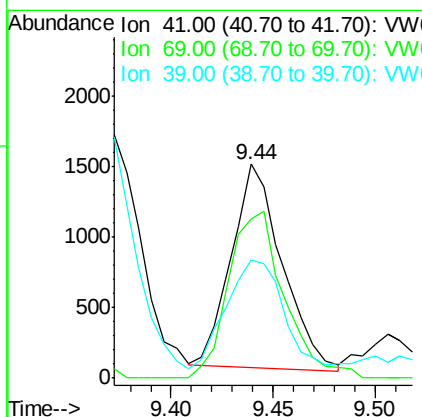
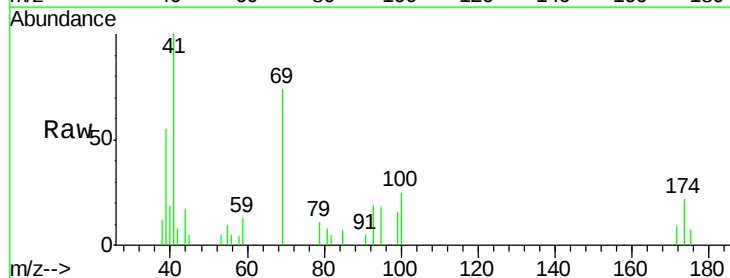
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

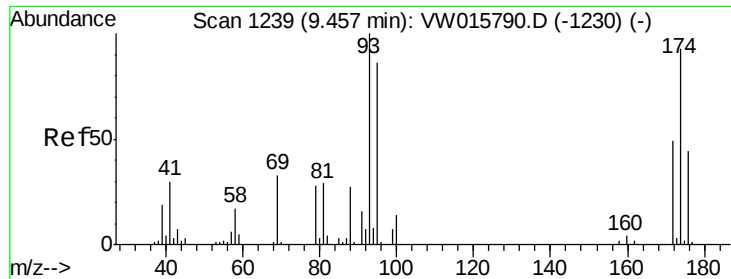
Tot Ion: 83 Resp: 6839
Ion Ratio Lower Upper
83 100
85 64.8 50.6 76.0
127 9.7 6.2 9.2#



#48
Methyl methacrylate
Concen: 2.345 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion: 41 Resp: 2490
Ion Ratio Lower Upper
41 100
69 90.2 67.1 100.7
39 72.2 49.9 74.9

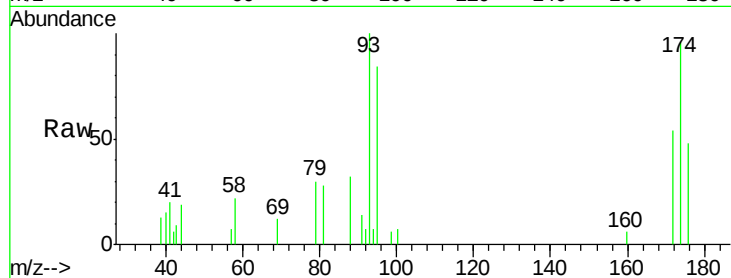




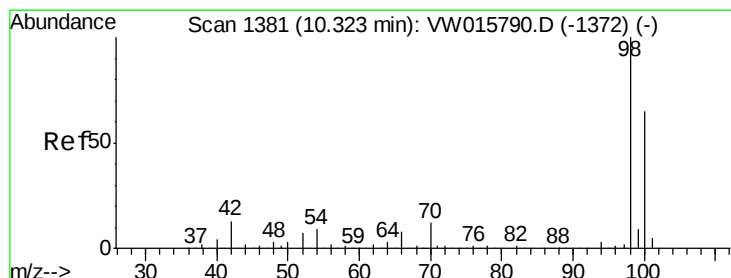
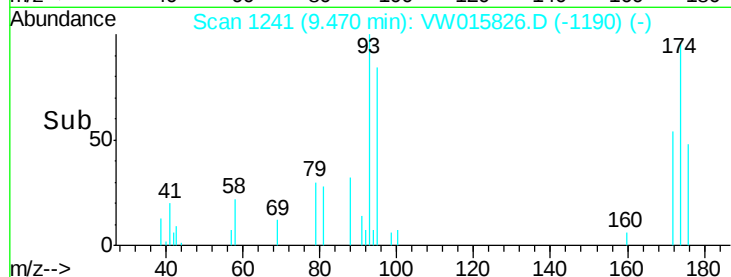
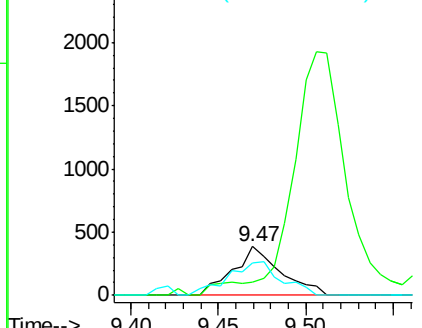
#49
1,4-Dioxane
Concen: 55.520 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 88 Resp: 727
Ion Ratio Lower Upper
88 100
43 0.0 28.1 42.1#
58 78.1 59.3 88.9

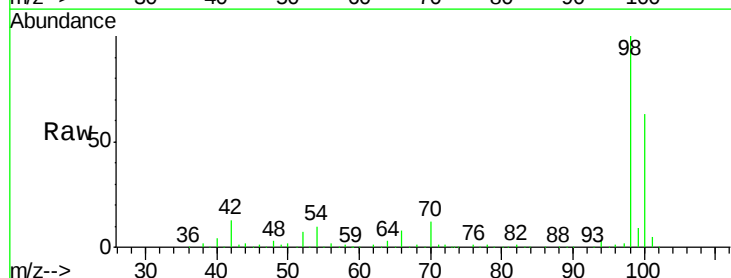


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

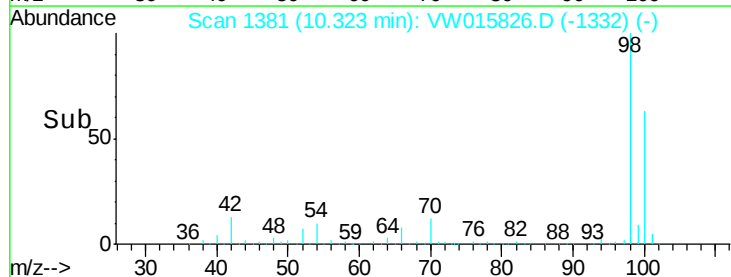
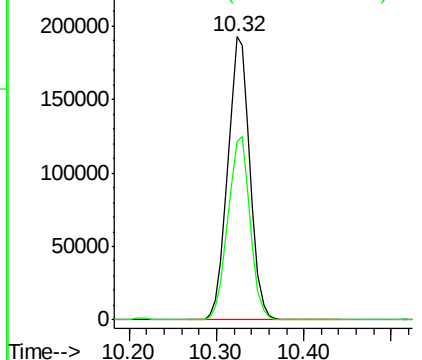


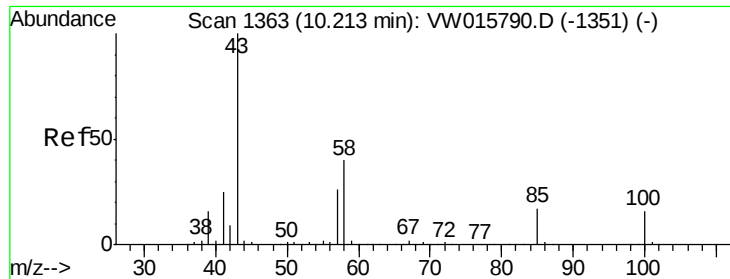
#50
Toluene-d8
Concen: 48.618 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion: 98 Resp: 337708
Ion Ratio Lower Upper
98 100
100 65.2 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 11.628 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

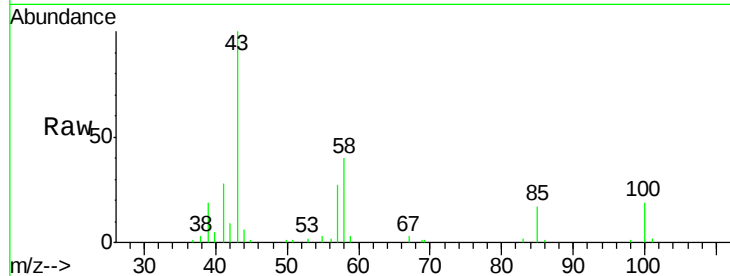
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 13149

Ion Ratio Lower Upper

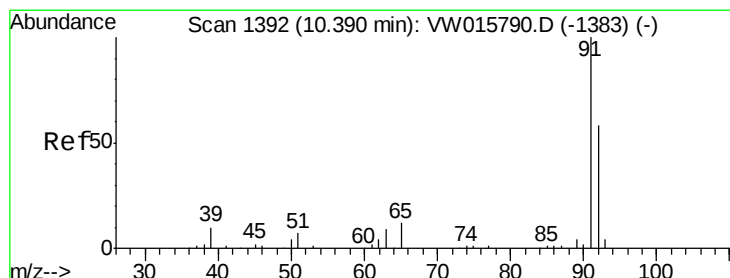
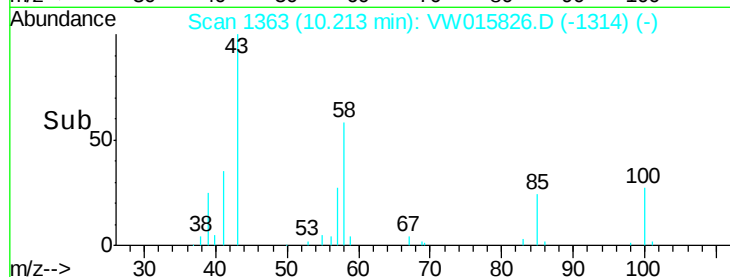
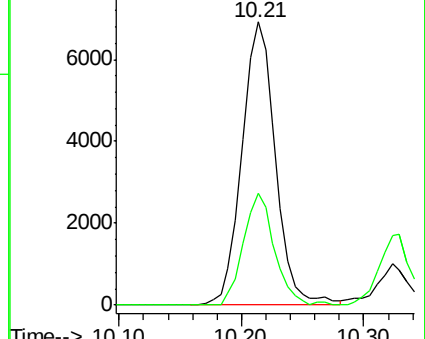
43 100

58 36.3 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 2.645 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW015826.D

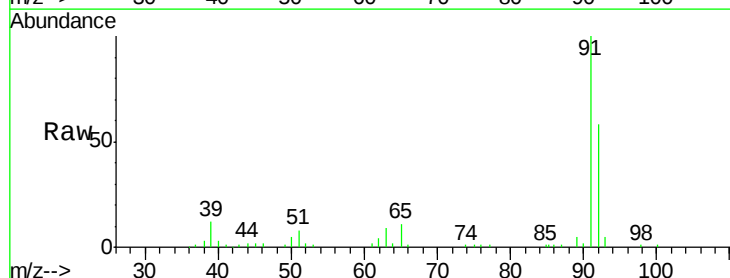
Acq: 09 Jul 2020 14:17

Tgt Ion: 92 Resp: 14248

Ion Ratio Lower Upper

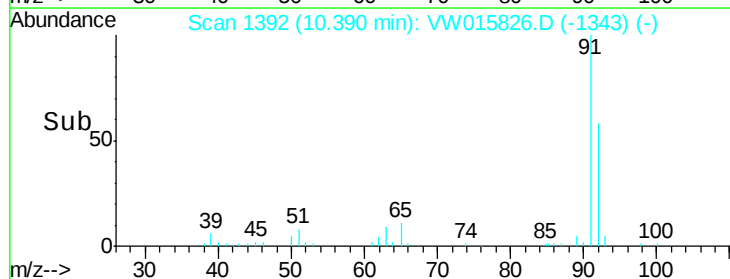
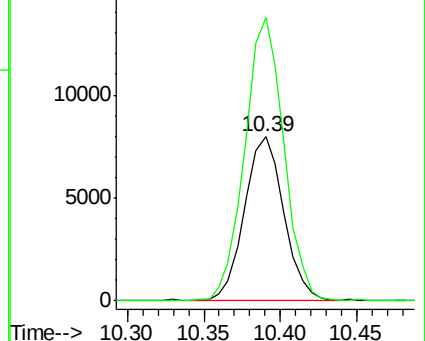
92 100

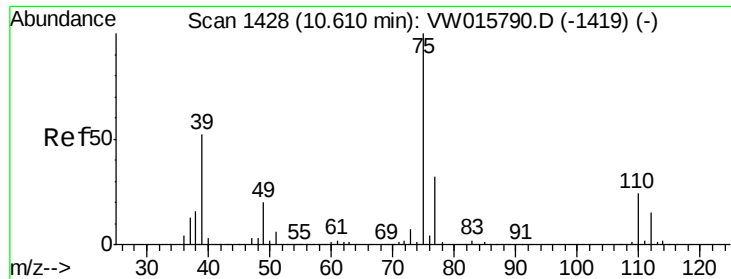
91 170.9 137.1 205.7



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

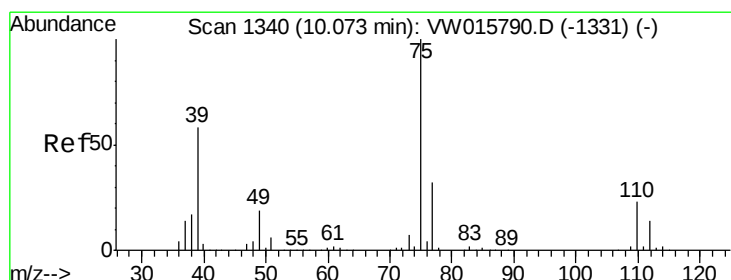
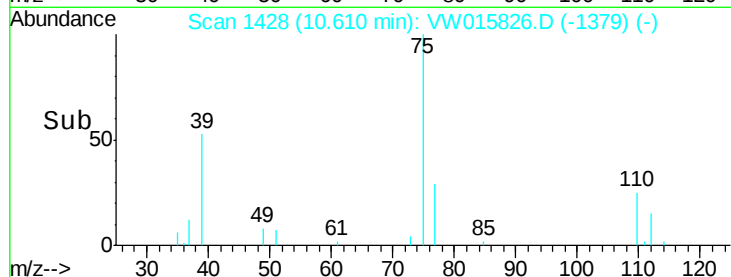
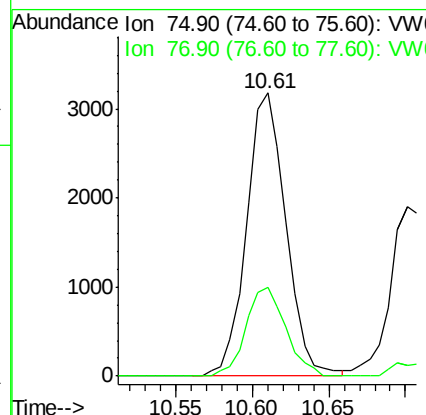
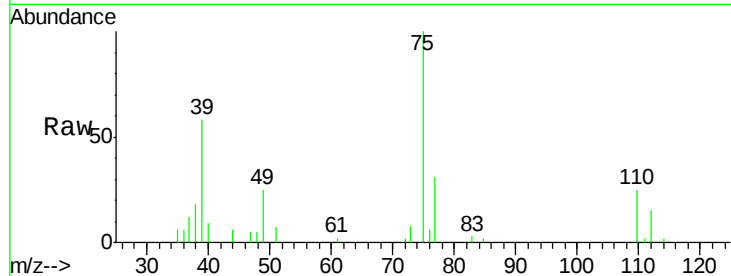




#53
 t-1,3-Dichloropropene
 Concen: 2.161 ug/l
 RT: 10.61 min Scan# 1428
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

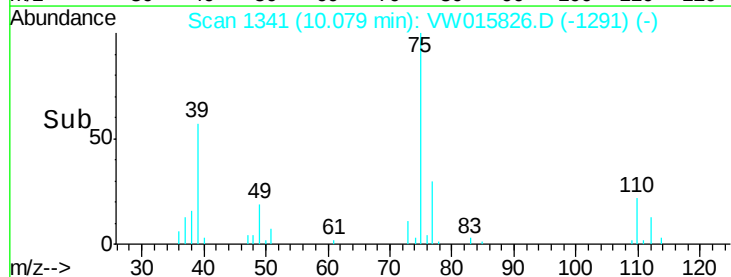
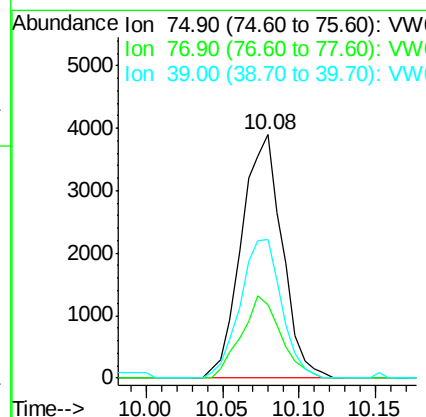
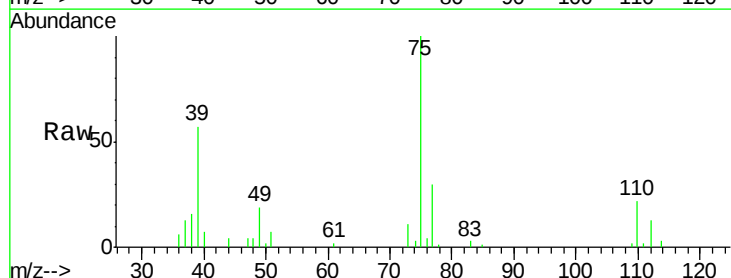
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

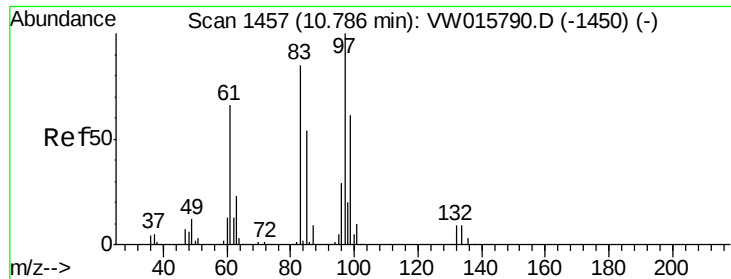
Tot Ion: 75 Resp: 5679
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.4 38.0



#54
 cis-1,3-Dichloropropene
 Concen: 2.296 ug/l
 RT: 10.08 min Scan# 1341
 Delta R.T. 0.01 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Tgt Ion: 75 Resp: 7219
 Ion Ratio Lower Upper
 75 100
 77 30.0 25.2 37.8
 39 56.7 46.0 69.0





#55

1,1,2-Trichloroethane

Concen: 2.720 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 97 Resp: 3995

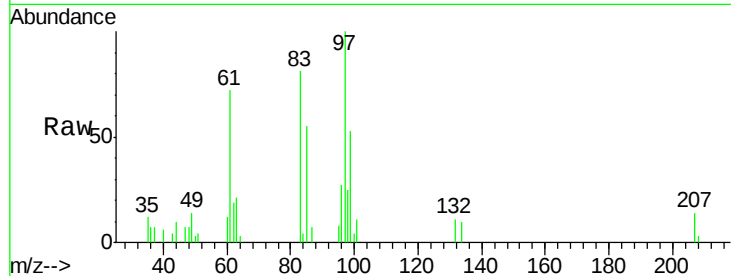
Ion Ratio Lower Upper

97 100

83 81.3 68.2 102.4

85 54.9 43.4 65.0

99 52.6 48.6 72.8

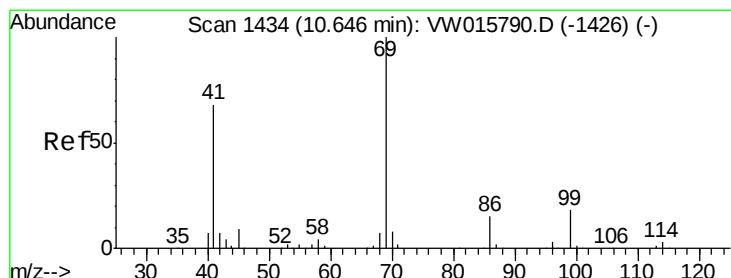
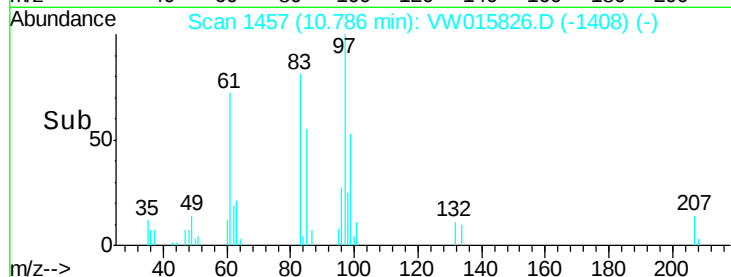
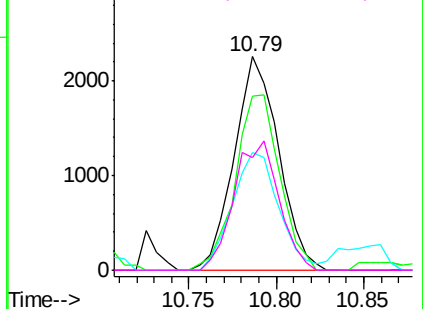


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 2.285 ug/l

RT: 10.65 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

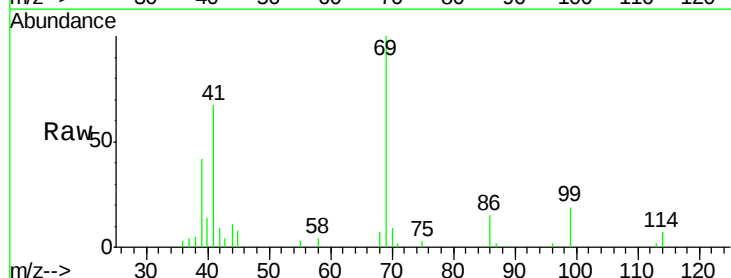
Tgt Ion: 69 Resp: 4126

Ion Ratio Lower Upper

69 100

41 72.1 55.0 82.6

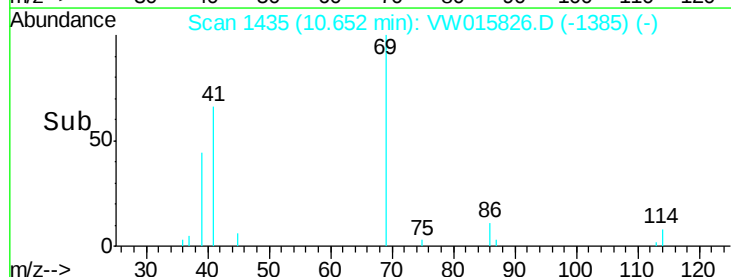
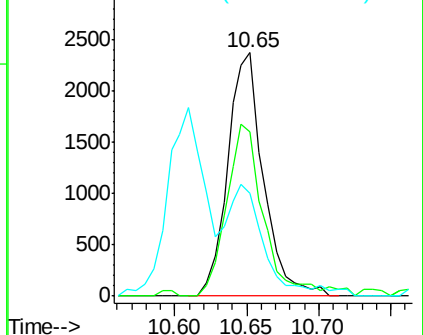
39 43.5 33.8 50.8

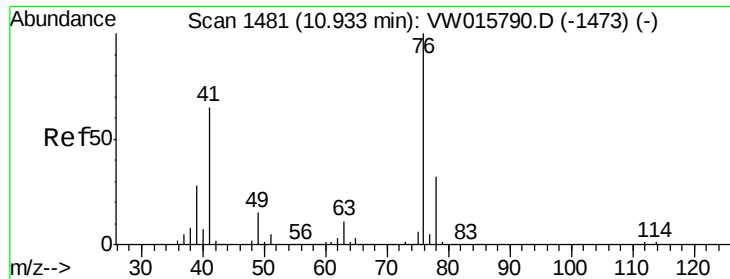


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

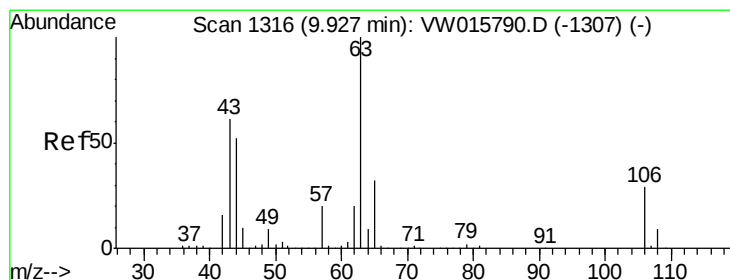
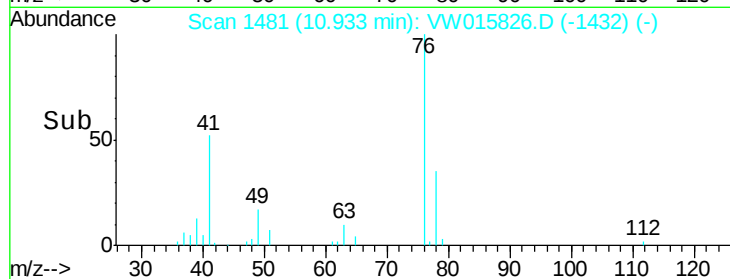
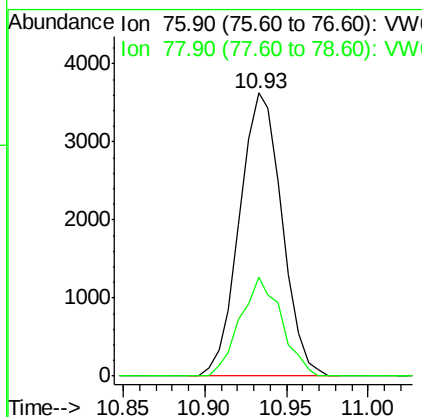
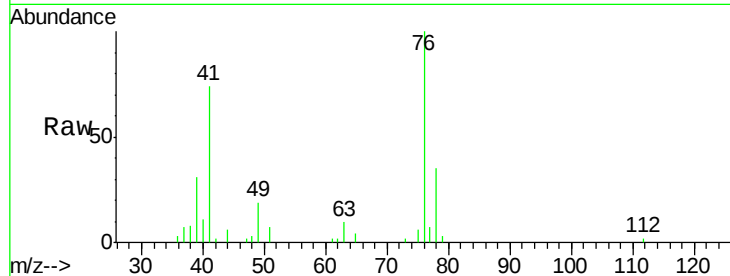




#57
 1,3-Dichloropropane
 Concen: 2.523 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

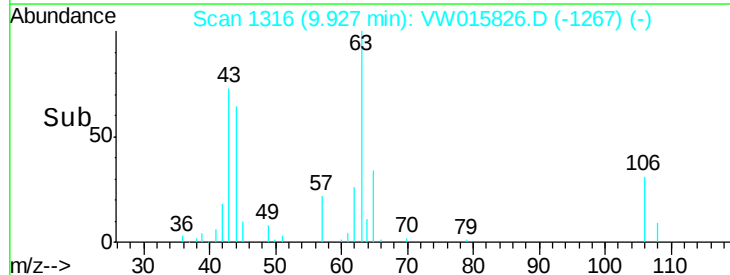
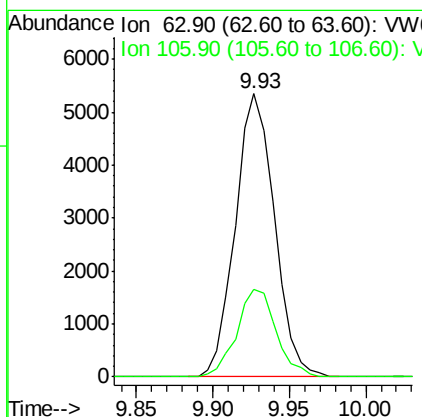
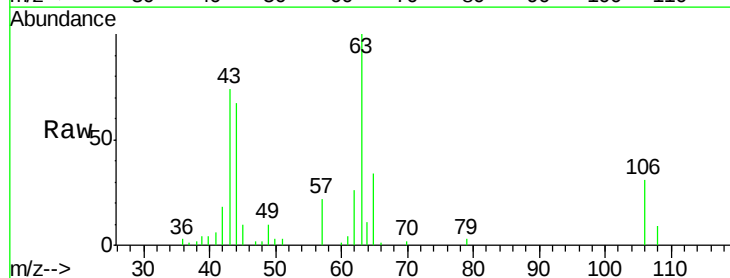
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

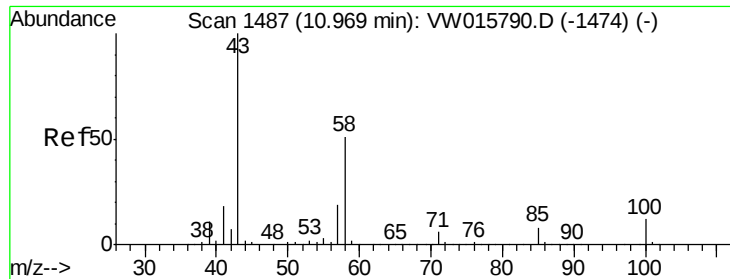
Tot Ion: 76 Resp: 6559
 Ion Ratio Lower Upper
 76 100
 78 34.0 25.7 38.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.797 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Tgt Ion: 63 Resp: 9526
 Ion Ratio Lower Upper
 63 100
 106 30.8 23.1 34.7





#59

2-Hexanone

Concen: 11.438 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

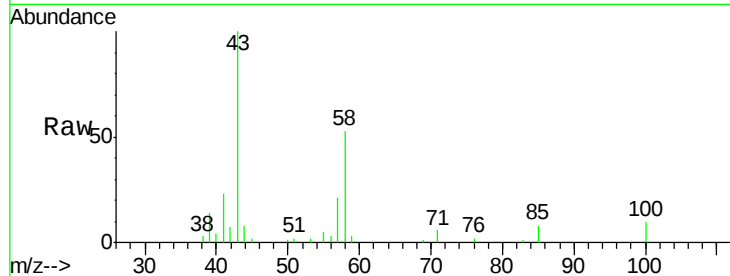
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 8632

Ion Ratio Lower Upper

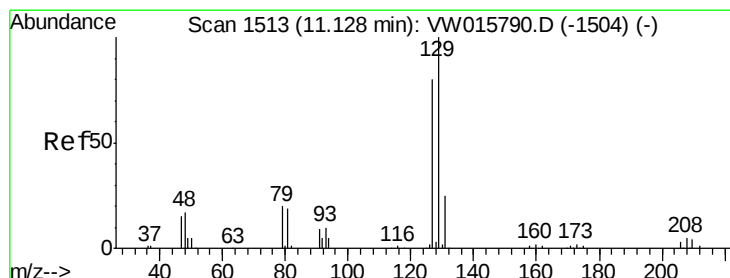
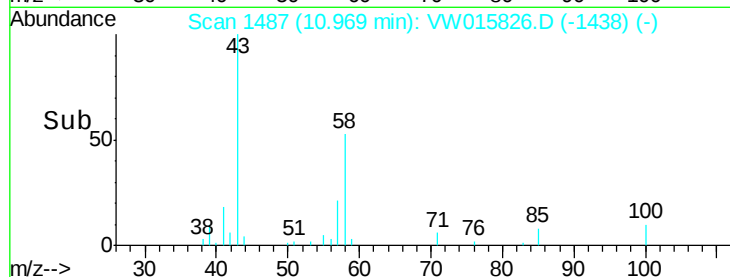
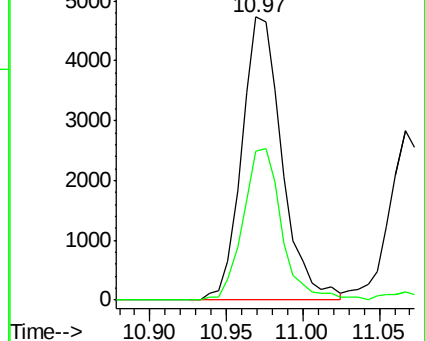
43 100

58 51.7 26.2 78.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#60

Dibromochloromethane

Concen: 2.142 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW015826.D

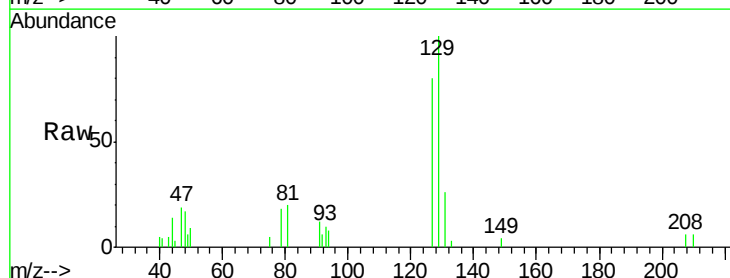
Acq: 09 Jul 2020 14:17

Tgt Ion:129 Resp: 3633

Ion Ratio Lower Upper

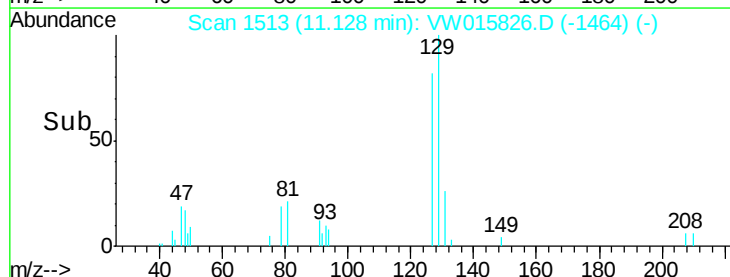
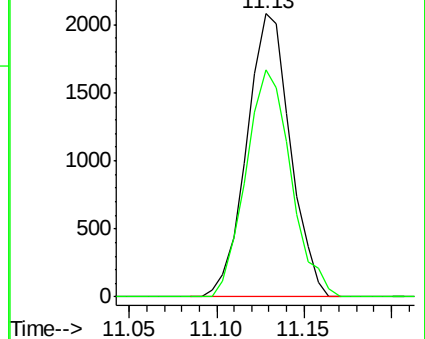
129 100

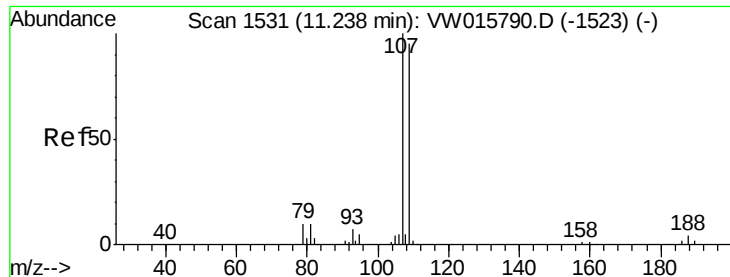
127 82.8 39.4 118.1



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 2.459 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

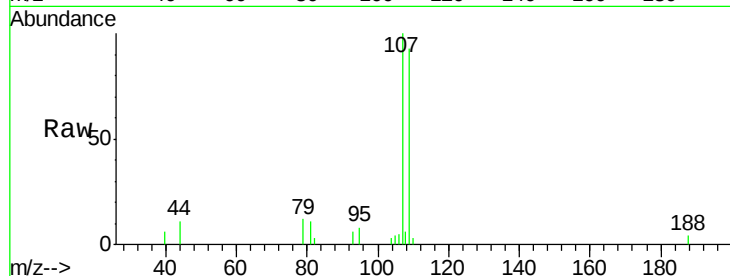
MDL-SOIL-03-QT3-2020DL

Tot Ion: 107 Resp: 3456

Ion Ratio Lower Upper

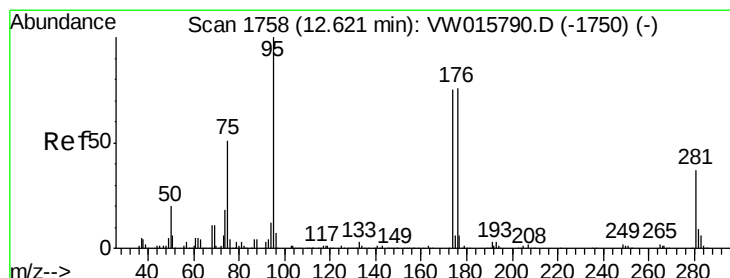
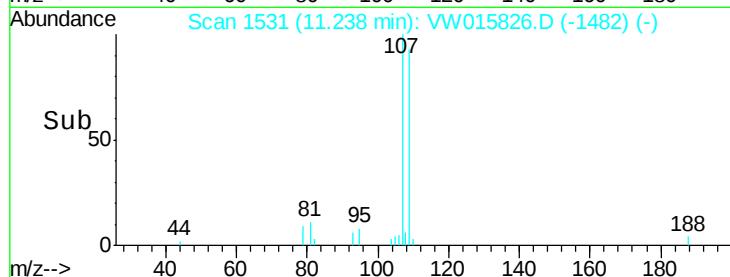
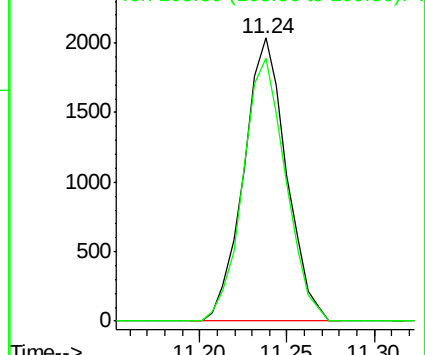
107 100

109 92.9 77.0 115.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 48.311 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

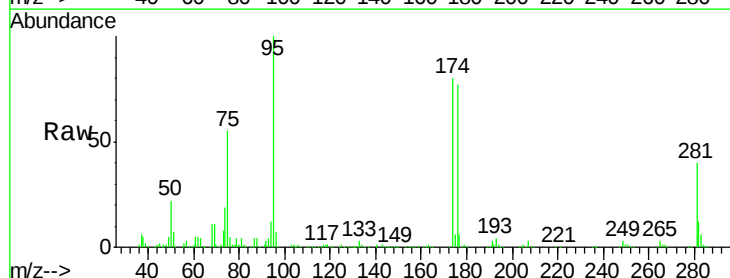
Tgt Ion: 95 Resp: 123136

Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.2

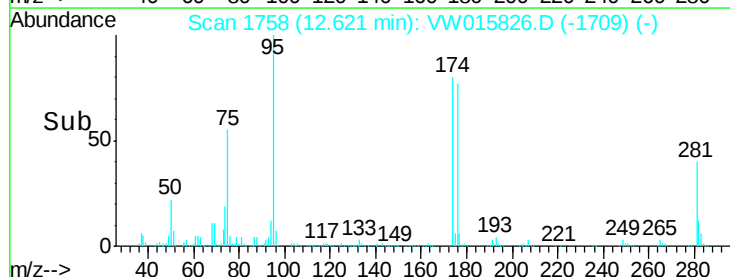
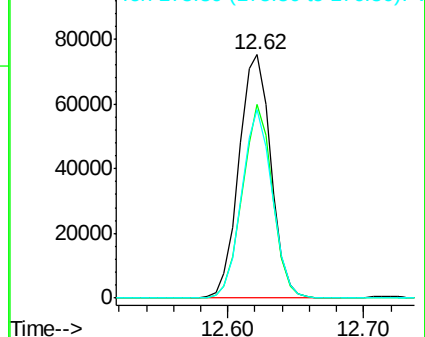
176 74.4 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

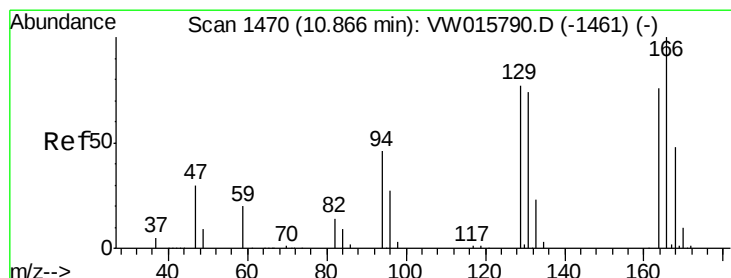
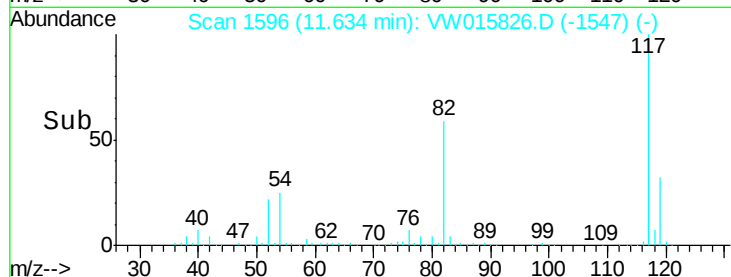
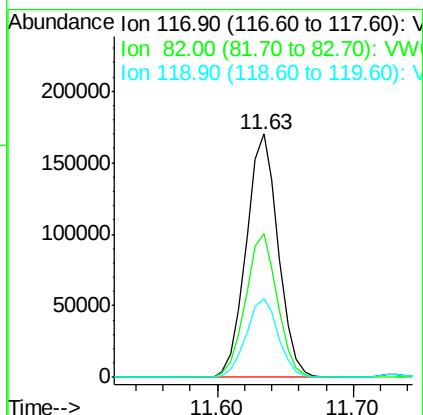
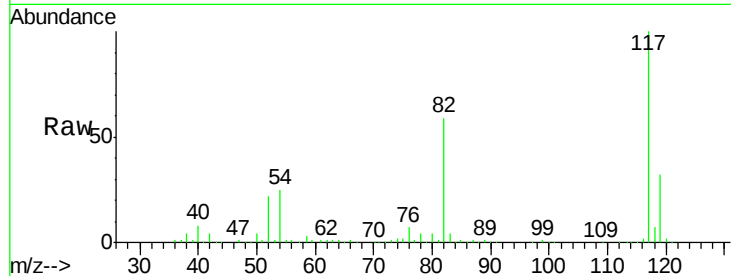




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

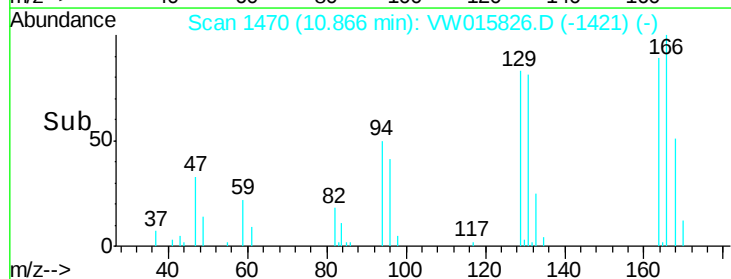
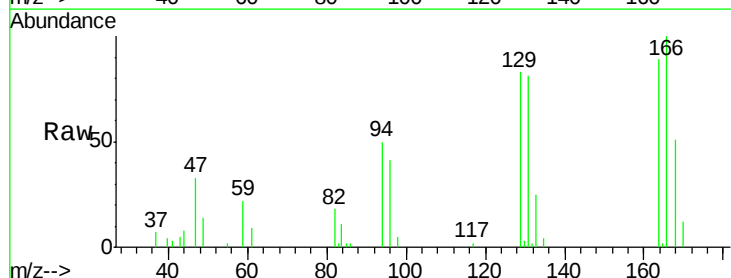
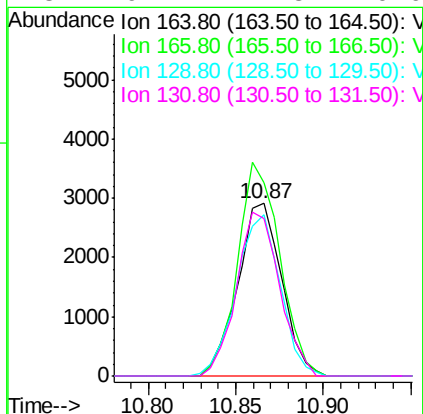
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

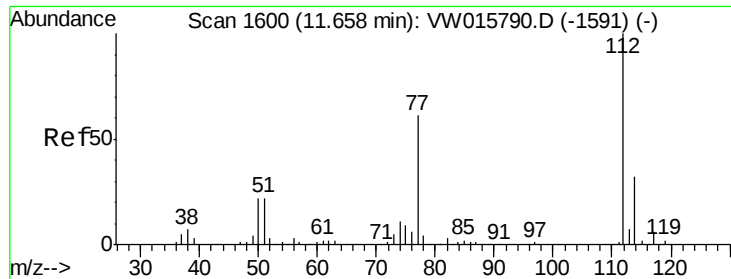
Tot Ion:117 Resp: 279723
Ion Ratio Lower Upper
117 100
82 59.0 45.5 68.3
119 32.4 25.0 37.6



#64
Tetrachloroethene
Concen: 2.900 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion:164 Resp: 5133
Ion Ratio Lower Upper
164 100
166 112.1 105.1 157.7
129 93.3 80.6 121.0
131 91.1 77.8 116.6

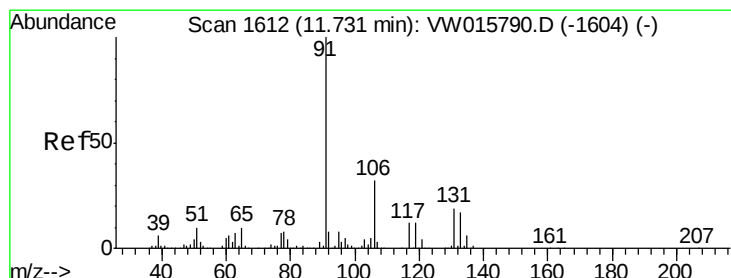
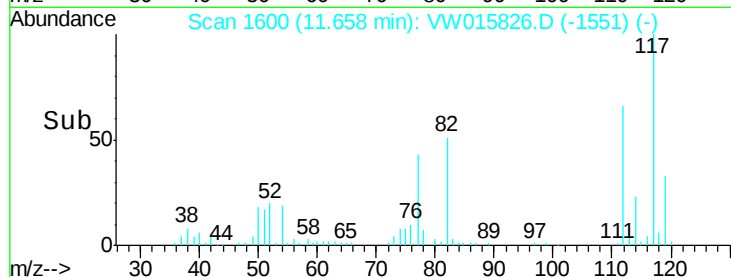
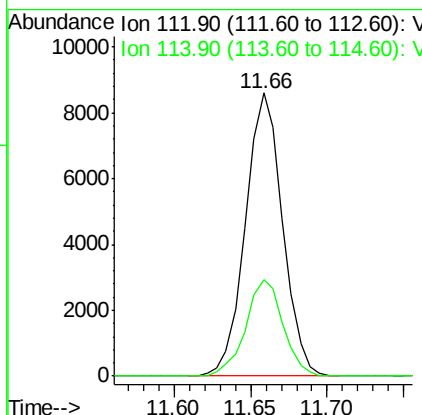
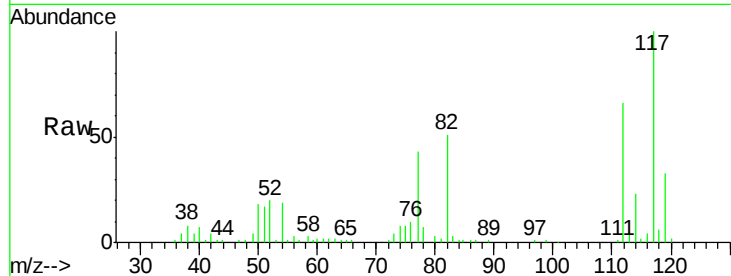




#65
Chlorobenzene
Concen: 2.651 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

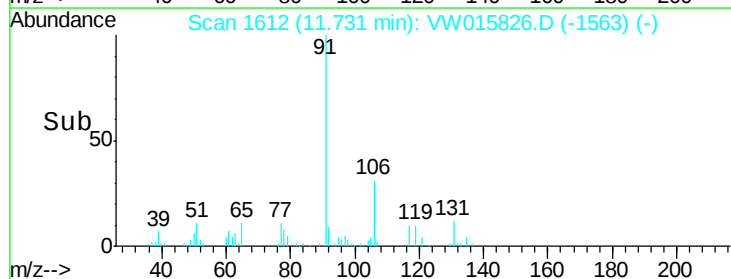
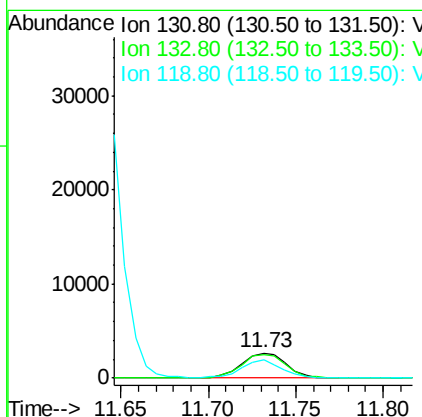
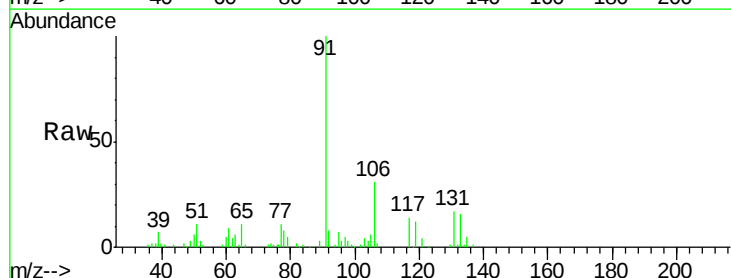
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

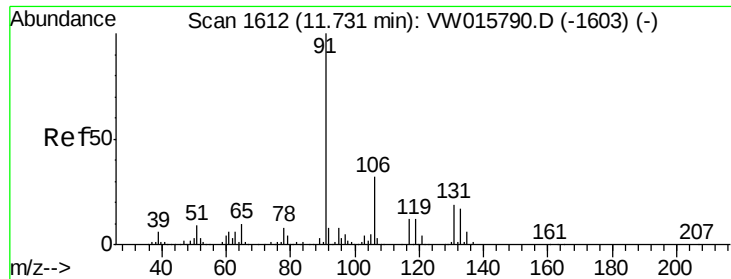
Tot Ion:112 Resp: 14501
Ion Ratio Lower Upper
112 100
114 34.1 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 2.409 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion:131 Resp: 4664
Ion Ratio Lower Upper
131 100
133 95.8 47.0 141.2
119 66.2 32.3 96.8

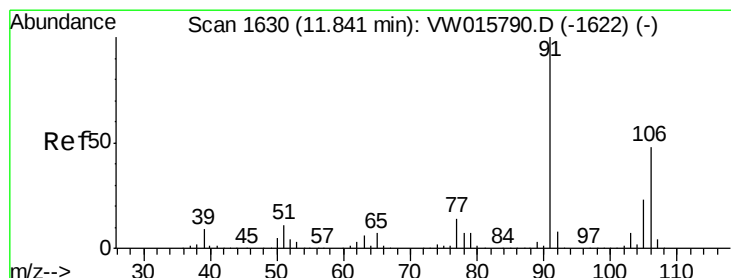
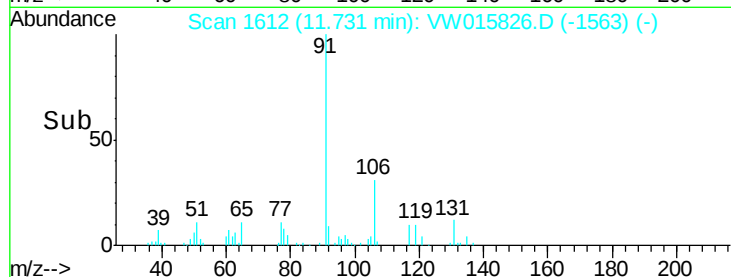
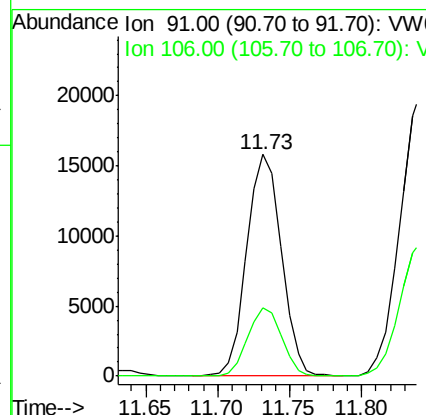
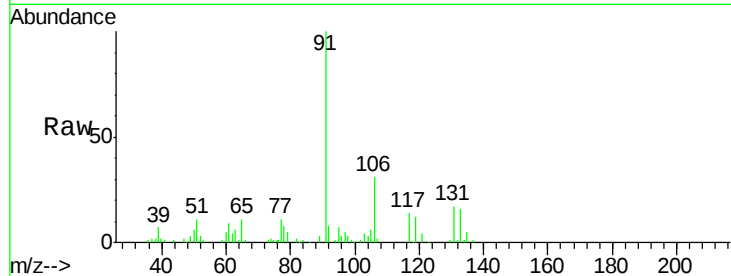




#67
Ethyl Benzene
Concen: 2.603 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

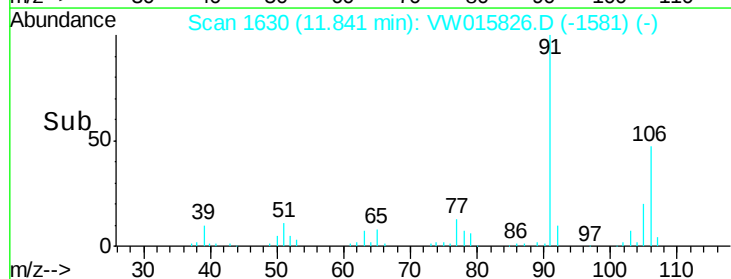
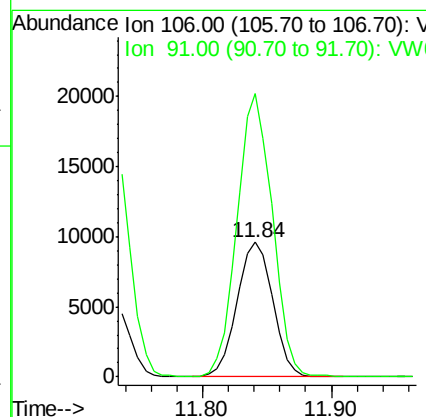
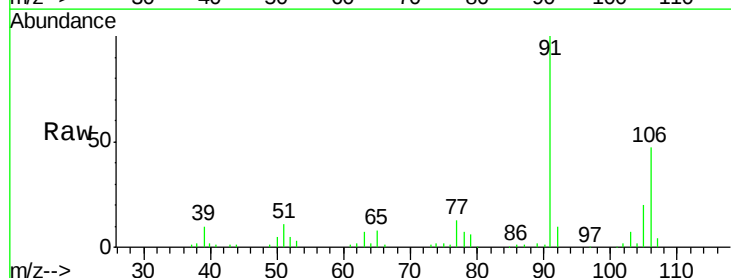
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

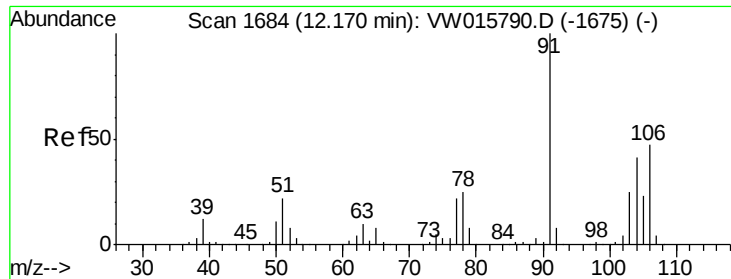
Tot Ion: 91 Resp: 26372
Ion Ratio Lower Upper
91 100
106 31.0 25.8 38.8



#68
m/p-Xylenes
Concen: 4.858 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion: 106 Resp: 18486
Ion Ratio Lower Upper
106 100
91 207.4 164.1 246.1

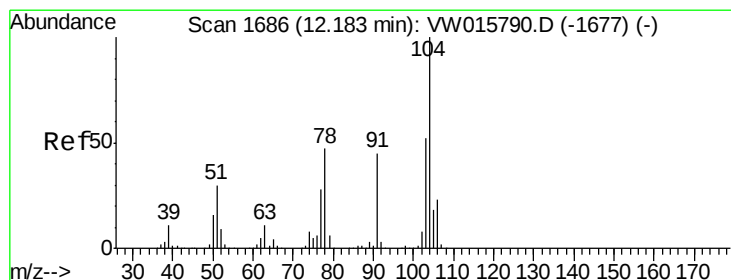
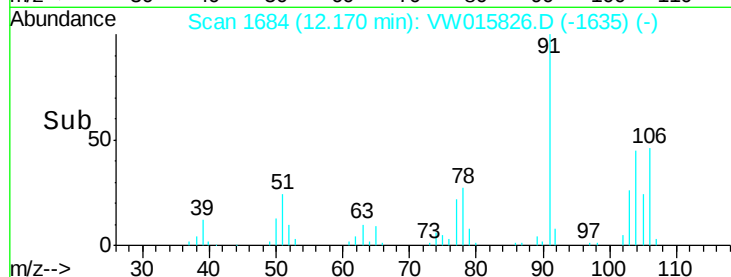
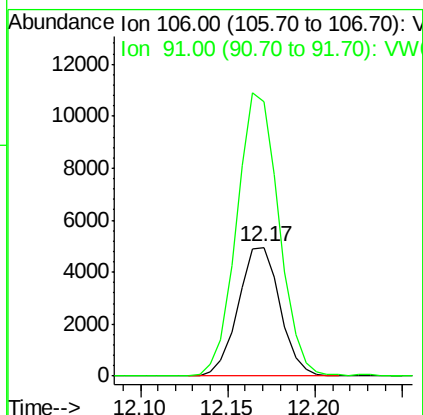
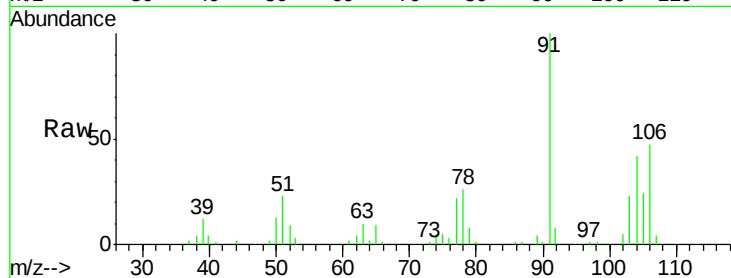




#69
o-Xylene
Concen: 2.365 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

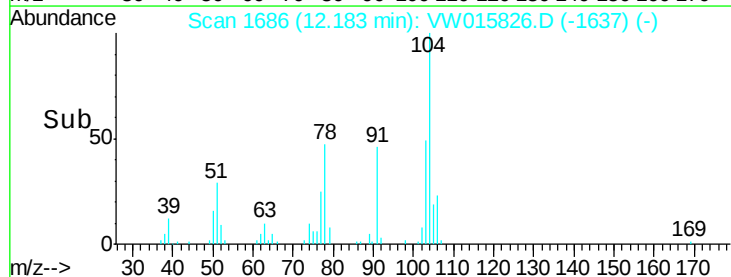
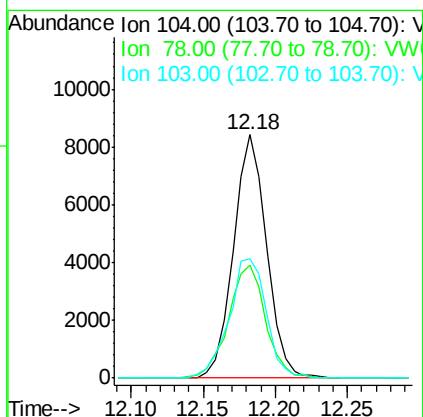
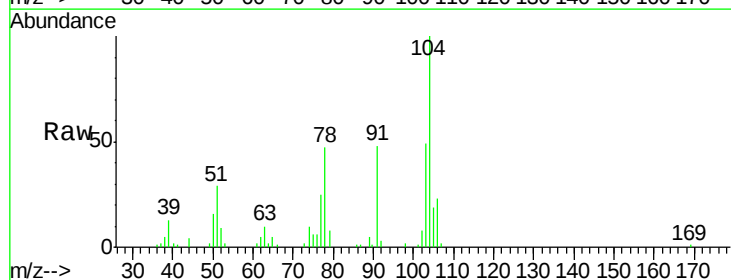
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

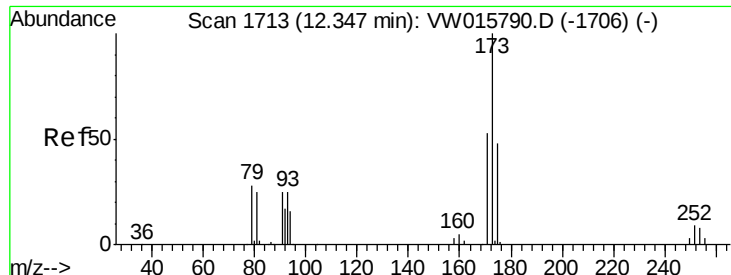
Tot Ion:106 Resp: 8216
Ion Ratio Lower Upper
106 100
91 222.7 108.5 325.3



#70
Styrene
Concen: 2.254 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion:104 Resp: 13473
Ion Ratio Lower Upper
104 100
78 52.2 41.0 61.4
103 55.3 43.8 65.8

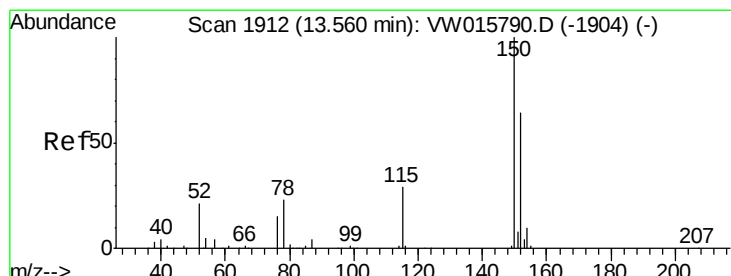
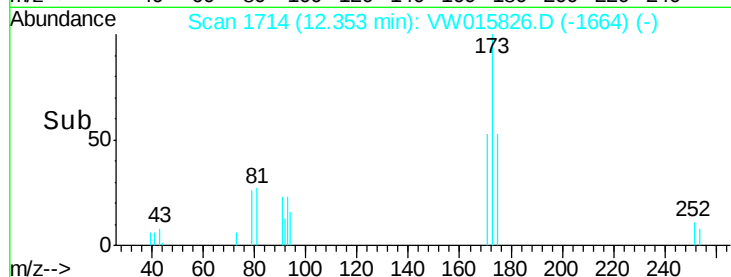
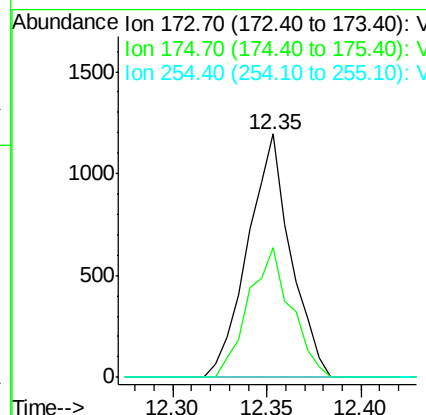
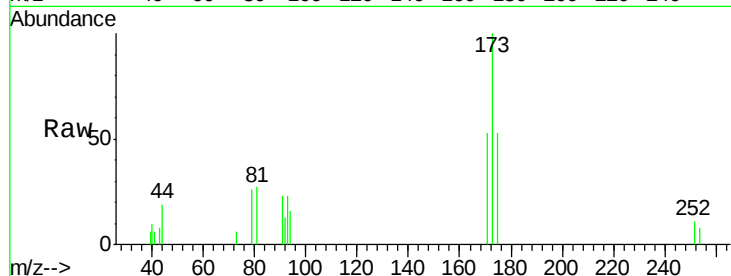




#71
Bromoform
Concen: 2.130 ug/l
RT: 12.35 min Scan# 1714
Delta R.T. 0.01 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

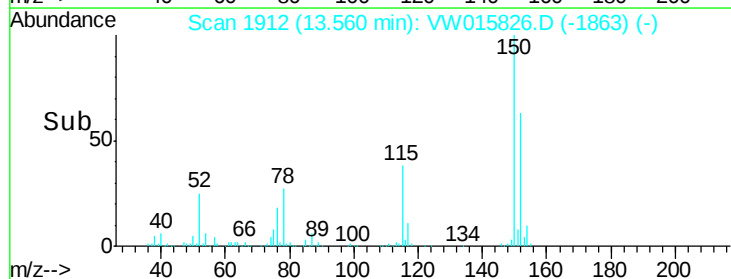
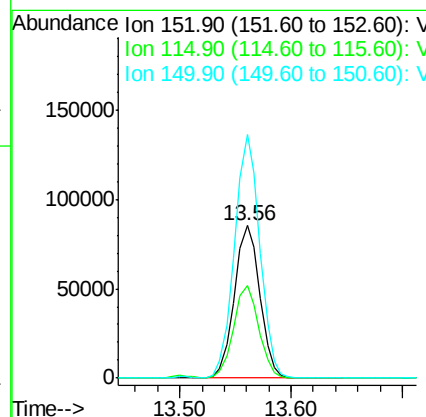
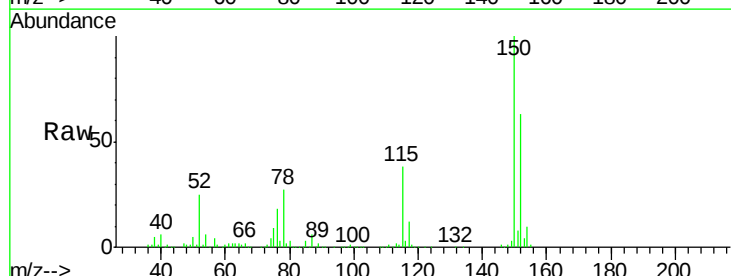
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion:173 Resp: 1882
Ion Ratio Lower Upper
173 100
175 52.9 23.5 70.5
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion:152 Resp: 135332
Ion Ratio Lower Upper
152 100
115 60.2 29.9 89.7
150 158.4 0.0 350.8





#73

Isopropylbenzene

Concen: 2.420 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

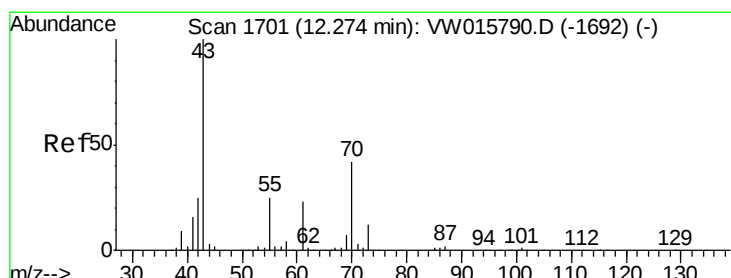
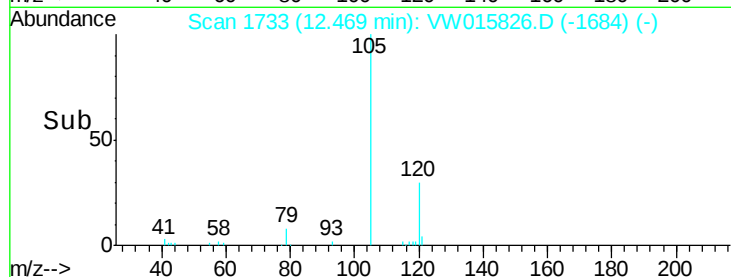
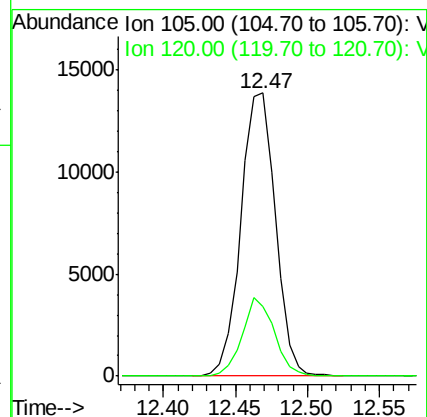
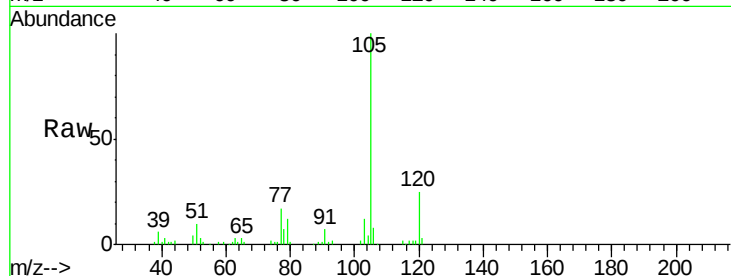
MDL-SOIL-03-QT3-2020DL

Tot Ion:105 Resp: 23077

Ion Ratio Lower Upper

105 100

120 25.7 13.2 39.6



#74

N-ethyl acetate

Concen: 2.279 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Tgt Ion: 43 Resp: 4649

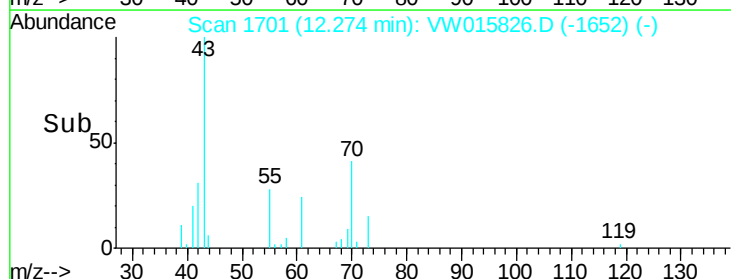
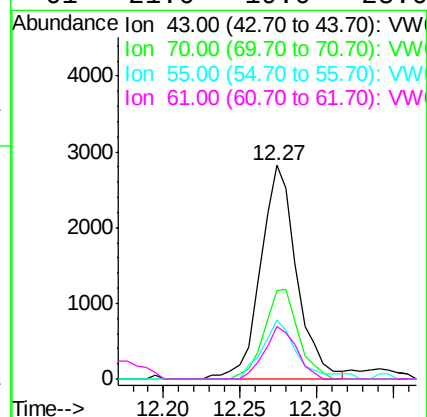
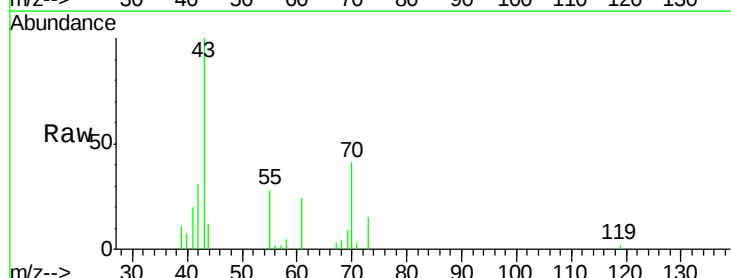
Ion Ratio Lower Upper

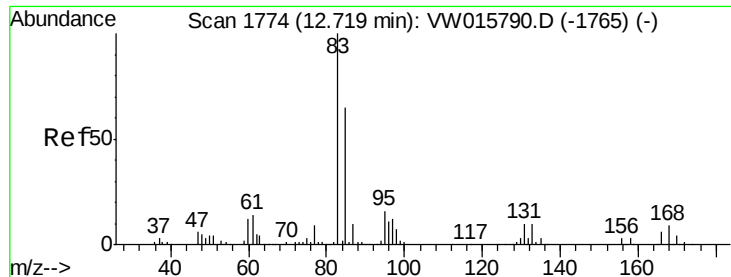
43 100

70 39.5 34.1 51.1

55 26.5 20.0 30.0

61 21.6 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 2.683 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

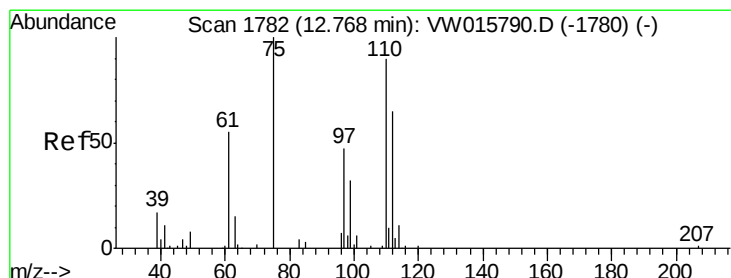
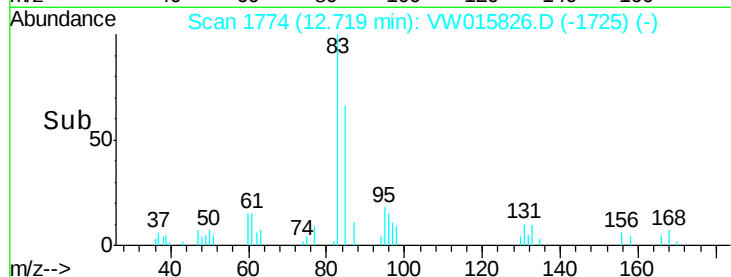
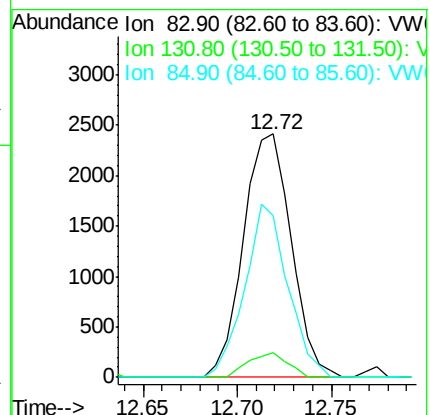
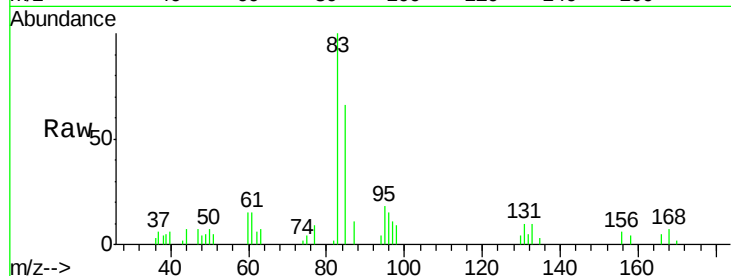
Tot Ion: 83 Resp: 4250

Ion Ratio Lower Upper

83 100

131 8.5 5.3 16.1

85 64.1 31.9 95.9



#76

1,2,3-Trichloropropane

Concen: 2.655 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015826.D

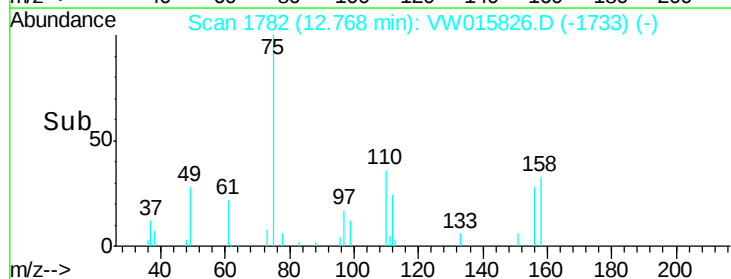
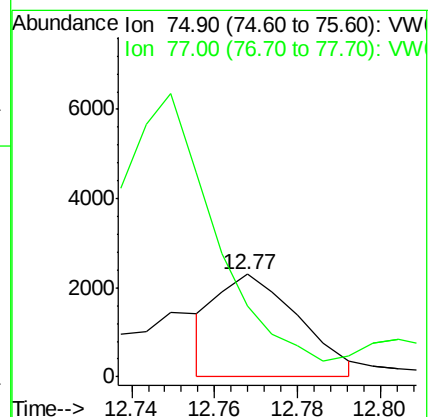
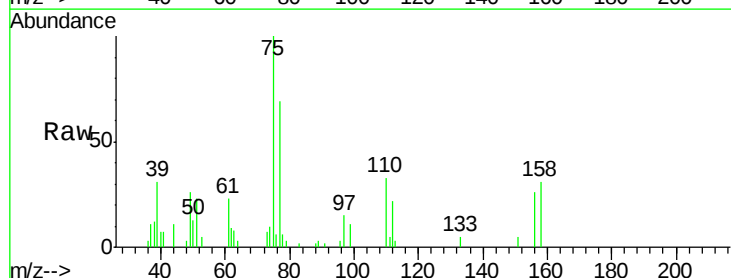
Acq: 09 Jul 2020 14:17

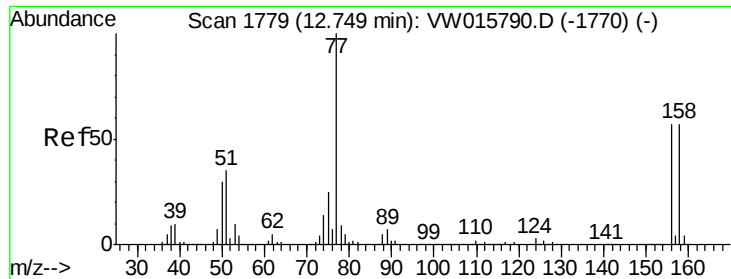
Tgt Ion: 75 Resp: 3158

Ion Ratio Lower Upper

75 100

77 352.7 177.3 532.0





#77

Bromobenzene

Concen: 2.739 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

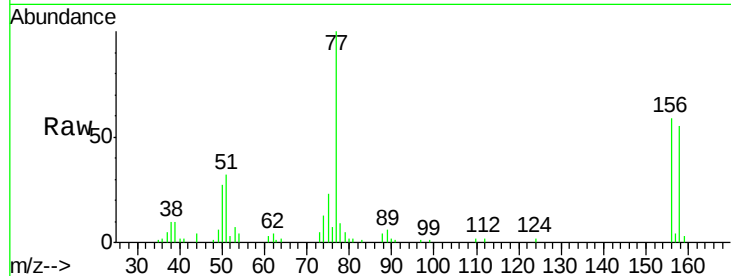
Tot Ion:156 Resp: 5855

Ion Ratio Lower Upper

156 100

77 190.2 98.8 296.4

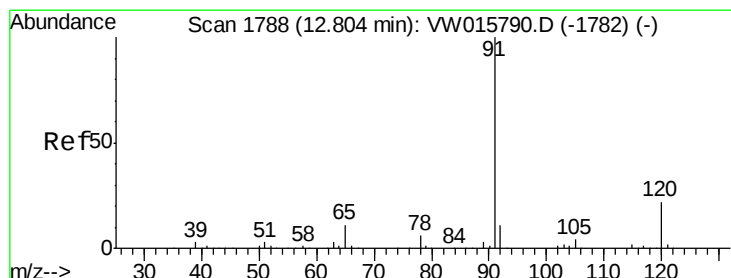
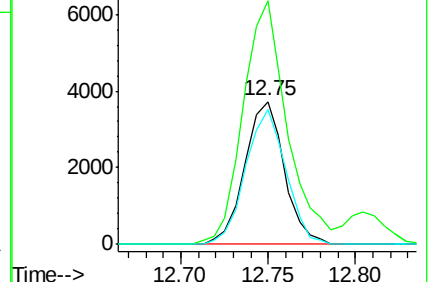
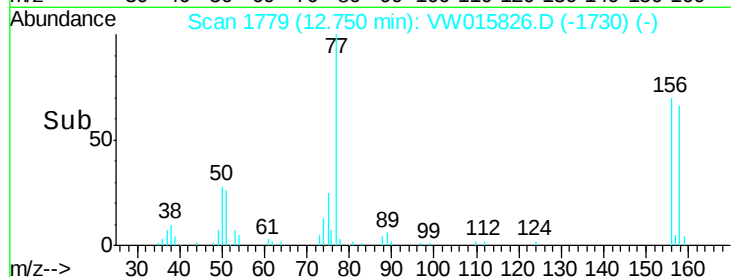
158 95.7 50.0 149.8



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.590 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW015826.D

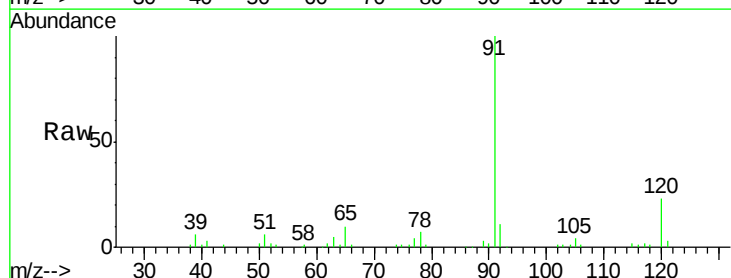
Acq: 09 Jul 2020 14:17

Tgt Ion: 91 Resp: 29975

Ion Ratio Lower Upper

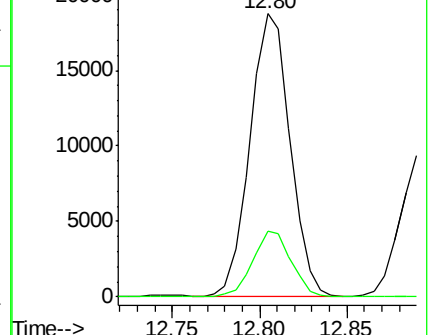
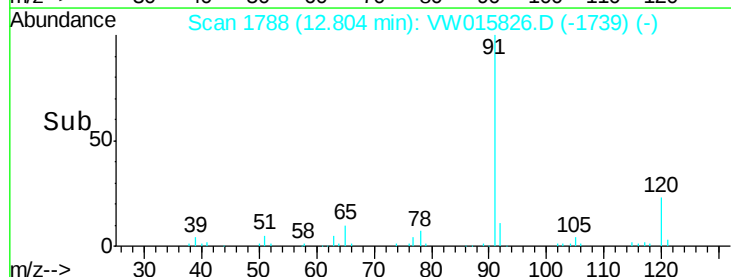
91 100

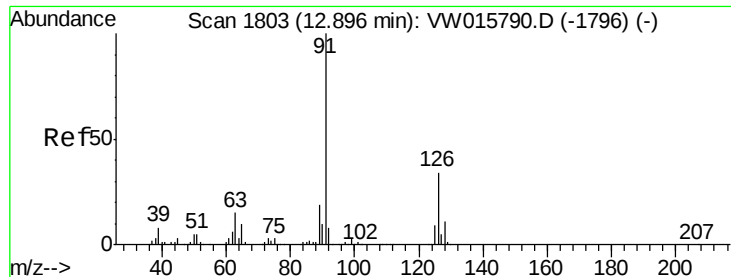
120 22.0 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.607 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

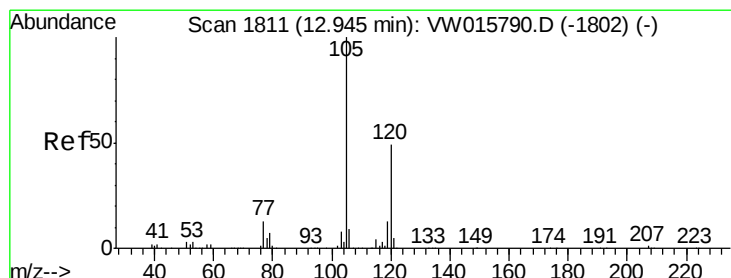
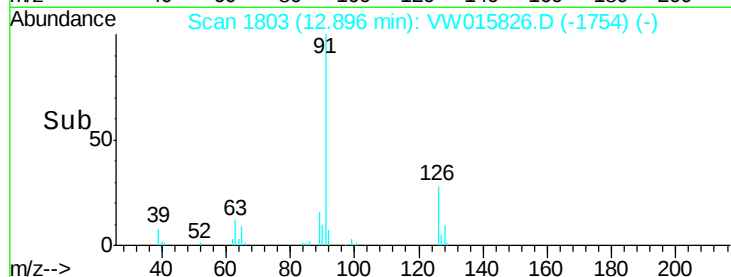
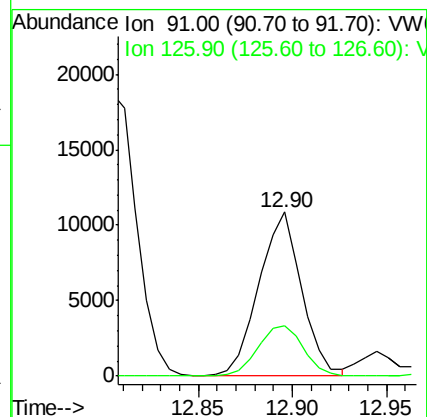
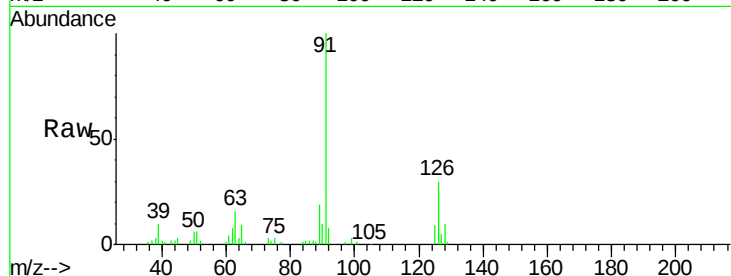
MDL-SOIL-03-QT3-2020DL

Tot Ion: 91 Resp: 17206

Ion Ratio Lower Upper

91 100

126 32.1 16.5 49.5



#80

1,3,5-Trimethylbenzene

Concen: 2.443 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW015826.D

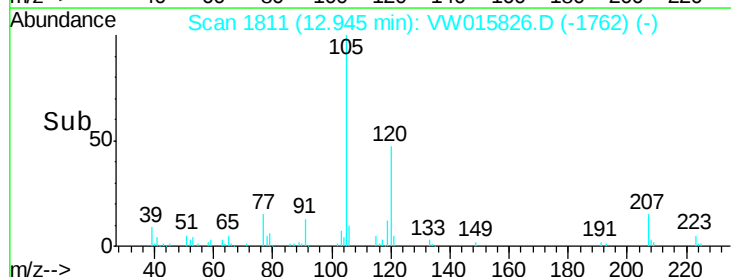
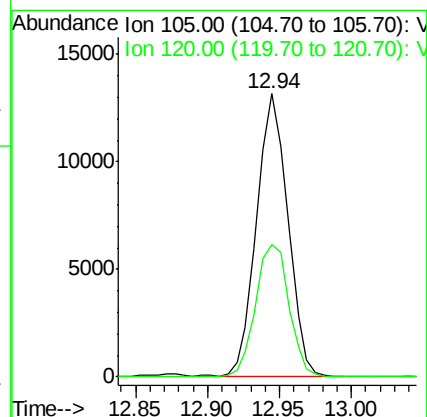
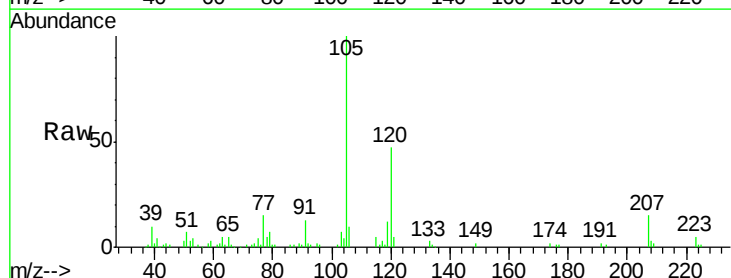
Acq: 09 Jul 2020 14:17

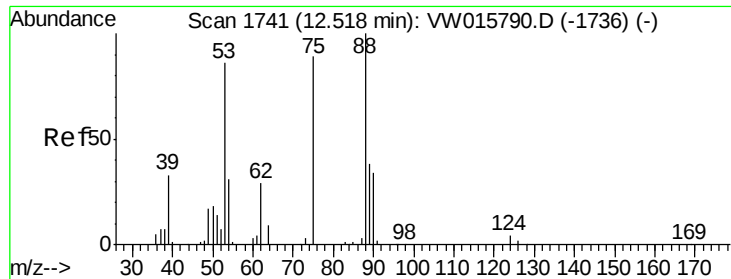
Tgt Ion:105 Resp: 19852

Ion Ratio Lower Upper

105 100

120 49.7 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 2.072 ug/l m

RT: 12.52 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

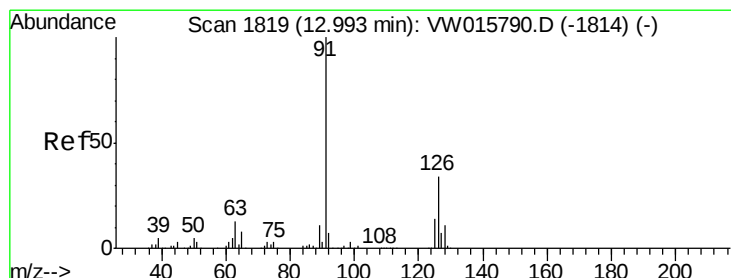
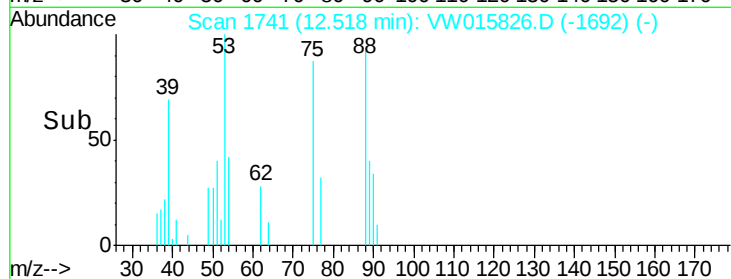
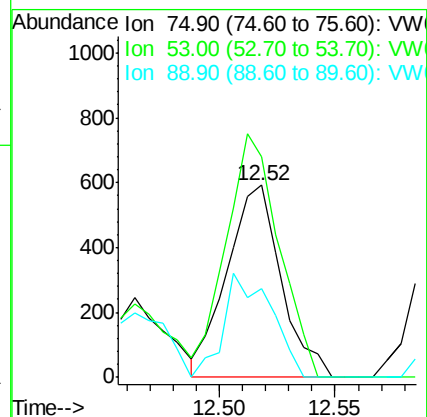
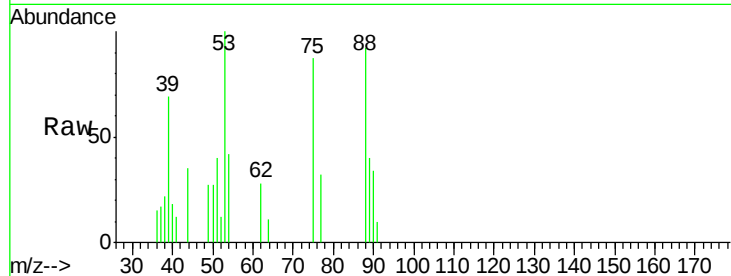
Tot Ion: 75 Resp: 964

Ion Ratio Lower Upper

75 100

53 0.0 85.9 128.9#

89 57.1 36.2 54.4#



#82

4-Chlorotoluene

Concen: 2.566 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW015826.D

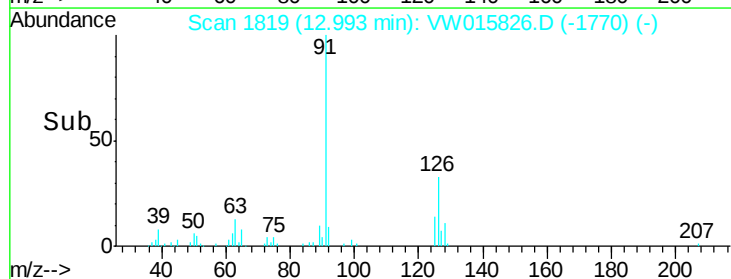
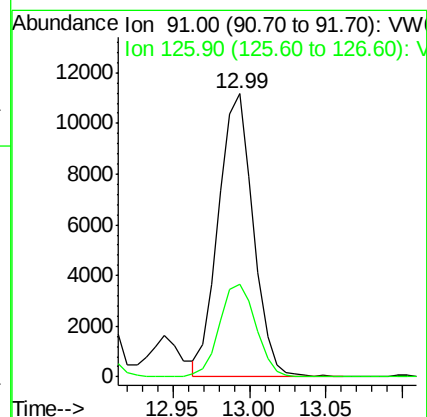
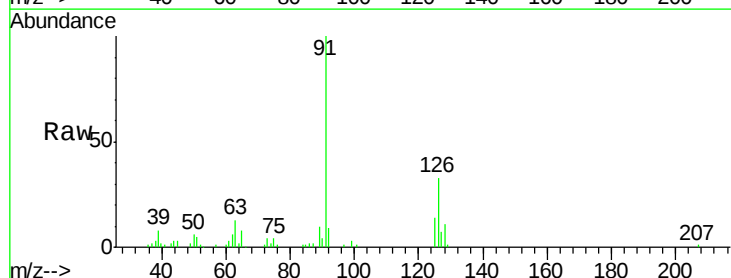
Acq: 09 Jul 2020 14:17

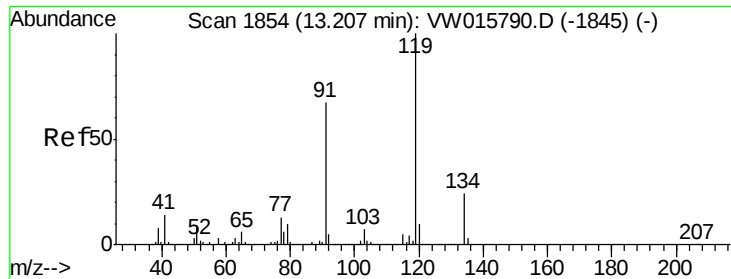
Tgt Ion: 91 Resp: 17681

Ion Ratio Lower Upper

91 100

126 34.1 16.3 48.9

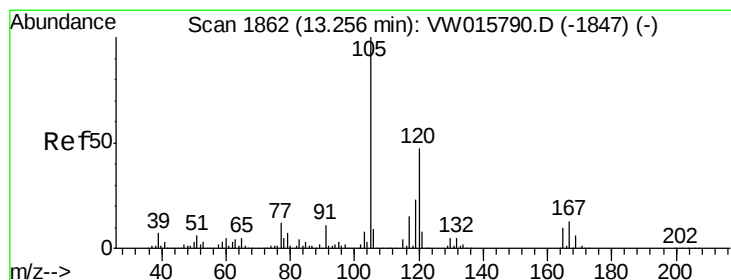
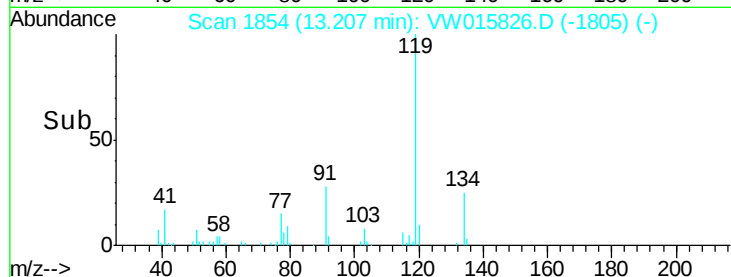
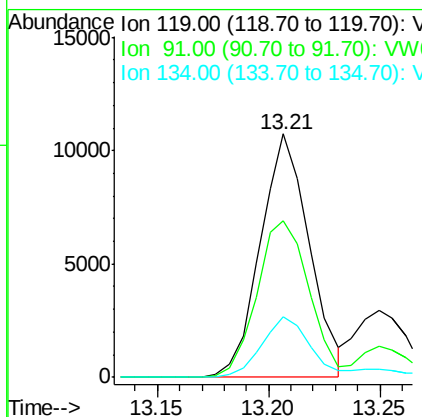
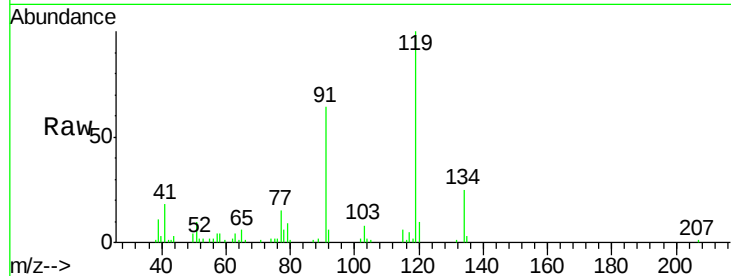




#83
tert-Butylbenzene
Concen: 2.426 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

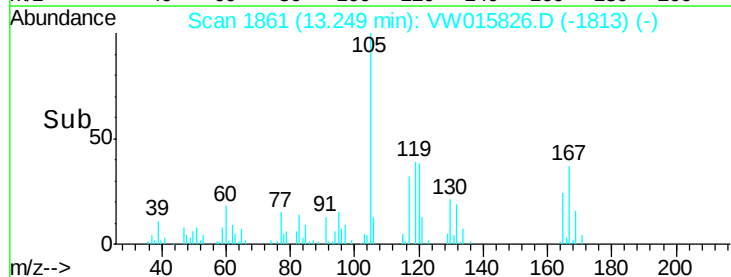
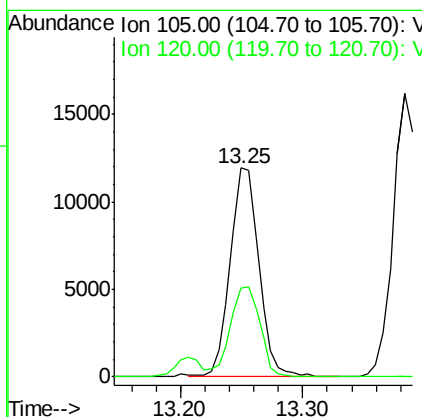
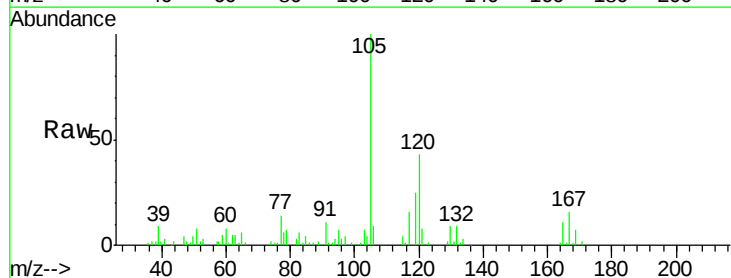
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

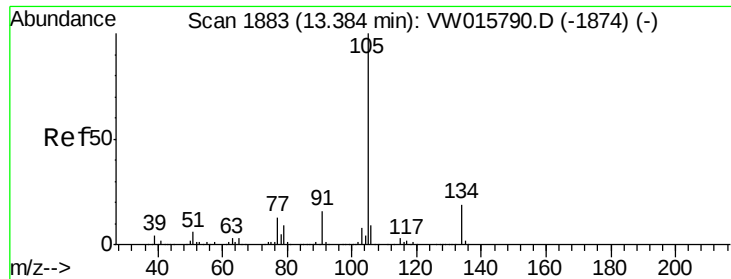
Tot Ion:119 Resp: 16369
Ion Ratio Lower Upper
119 100
91 69.4 34.4 103.3
134 25.0 13.6 40.7



#84
1,2,4-Trimethylbenzene
Concen: 2.397 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.01 min
Lab File: VW015826.D
Acq: 09 Jul 2020 14:17

Tgt Ion:105 Resp: 19451
Ion Ratio Lower Upper
105 100
120 44.6 22.8 68.4





#85

sec-Butylbenzene

Concen: 2.534 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

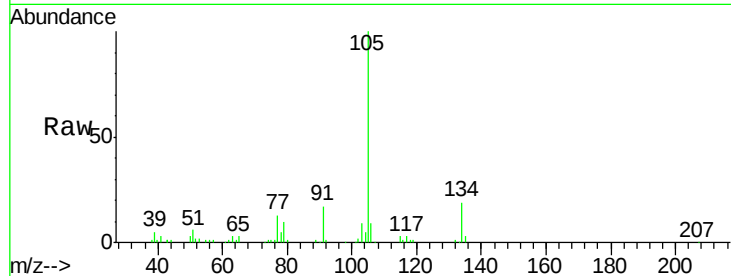
MDL-SOIL-03-QT3-2020DL

Tot Ion:105 Resp: 24690

Ion Ratio Lower Upper

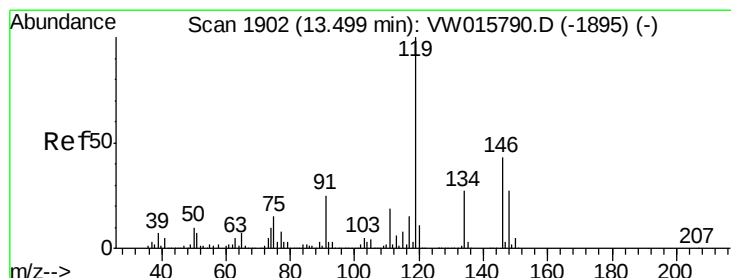
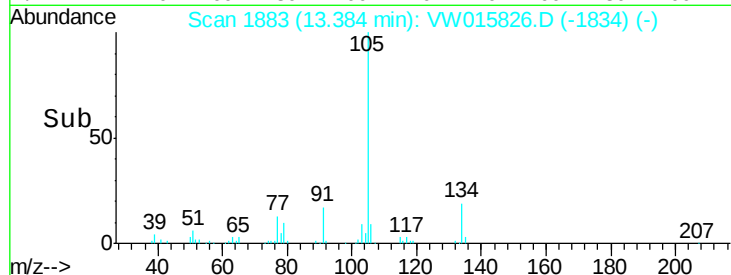
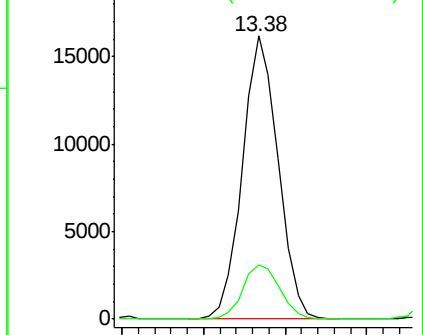
105 100

134 20.0 10.0 29.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.346 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

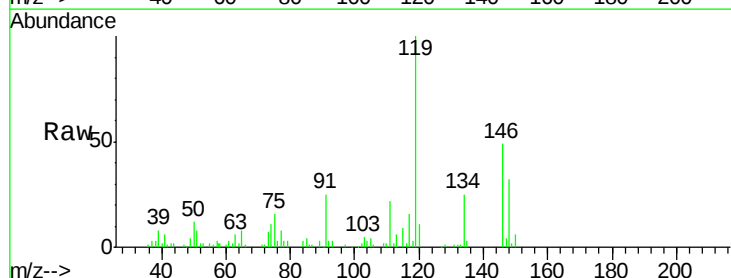
Tgt Ion:119 Resp: 20875

Ion Ratio Lower Upper

119 100

134 26.0 13.2 39.6

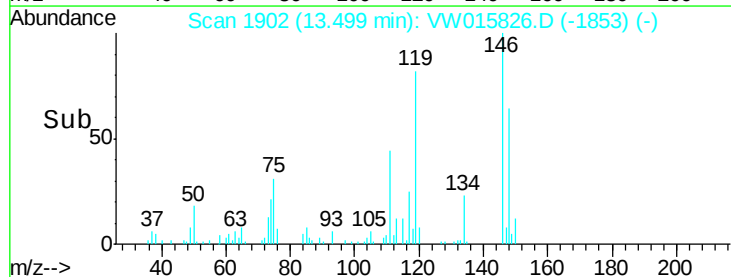
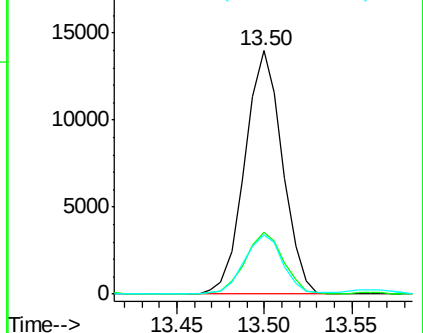
91 25.2 12.2 36.6

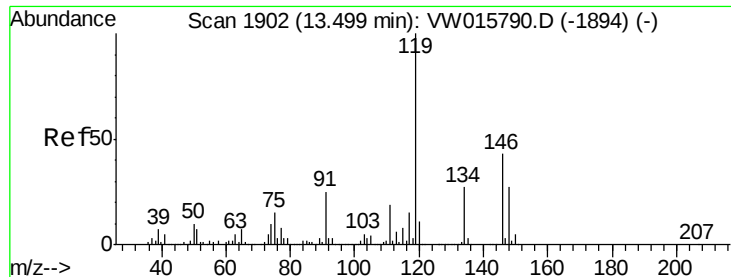


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 2.625 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

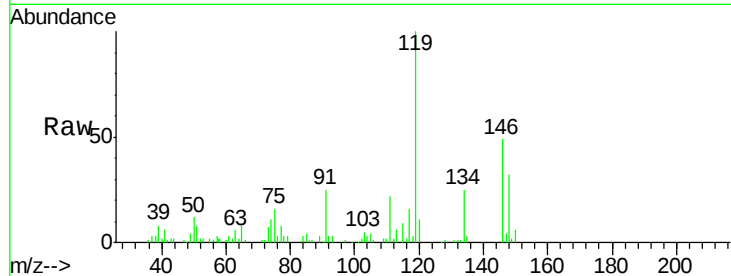
Tot Ion:146 Resp: 11250

Ion Ratio Lower Upper

146 100

111 42.5 20.8 62.4

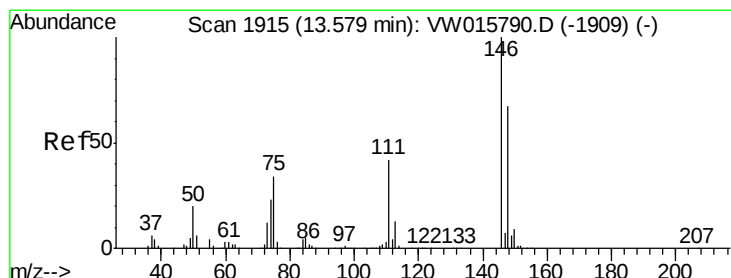
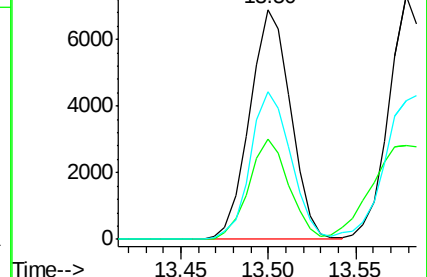
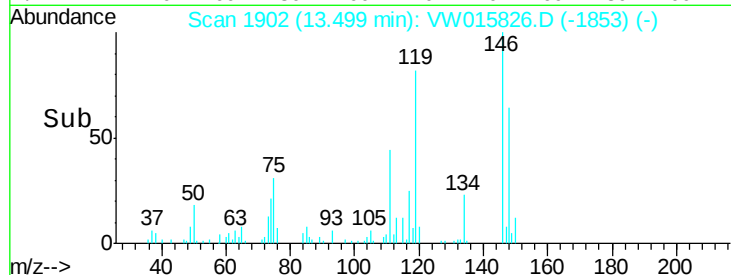
148 63.4 31.4 94.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 2.736 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

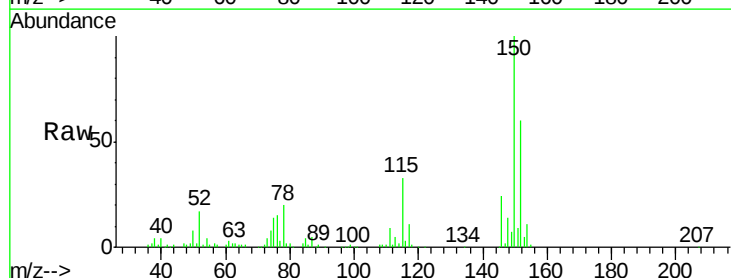
Tgt Ion:146 Resp: 11479

Ion Ratio Lower Upper

146 100

111 56.0 20.2 60.6

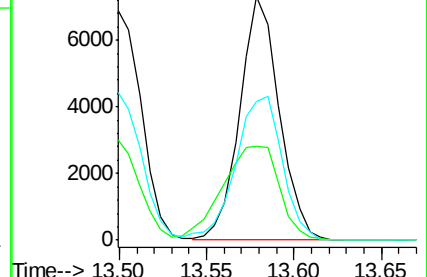
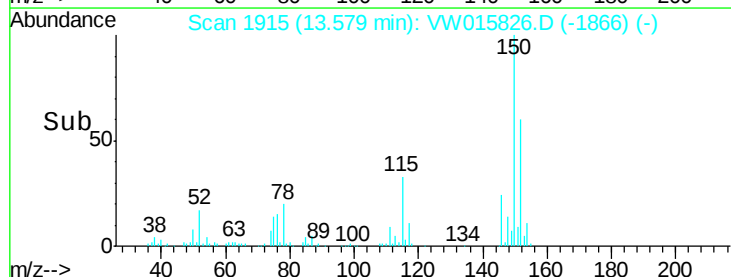
148 69.7 31.8 95.4

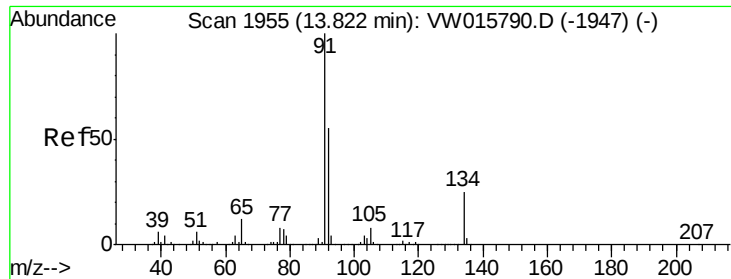


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 2.510 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

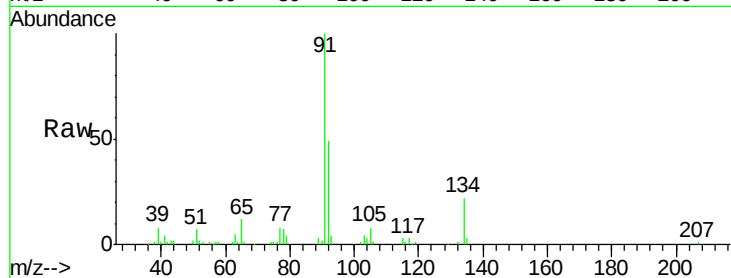
Tot Ion: 91 Resp: 21370

Ion Ratio Lower Upper

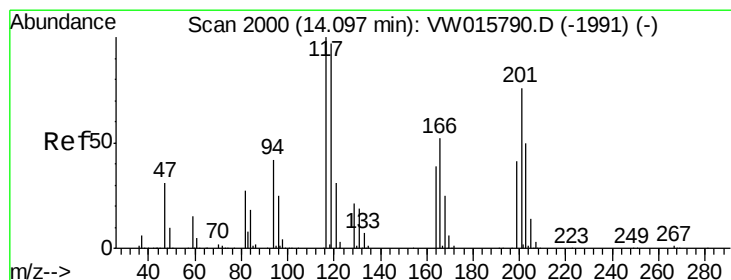
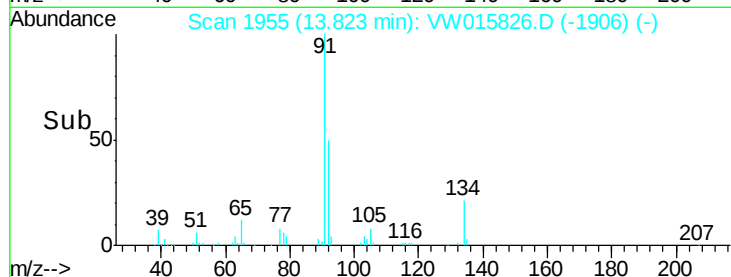
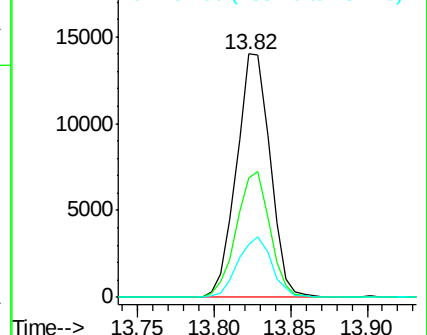
91 100

92 51.2 27.2 81.6

134 25.0 12.7 38.1



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW
Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 2.311 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW015826.D

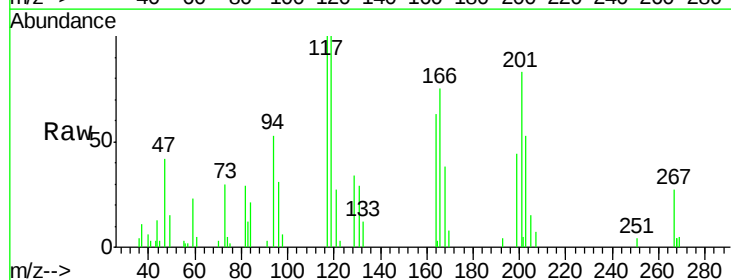
Acq: 09 Jul 2020 14:17

Tgt Ion: 117 Resp: 3726

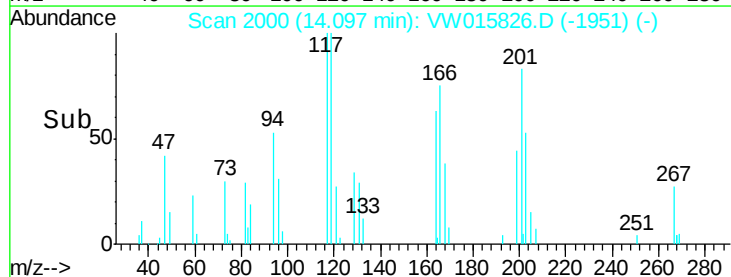
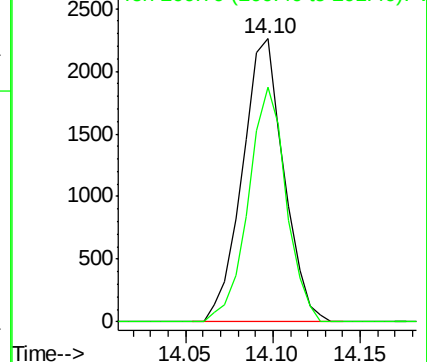
Ion Ratio Lower Upper

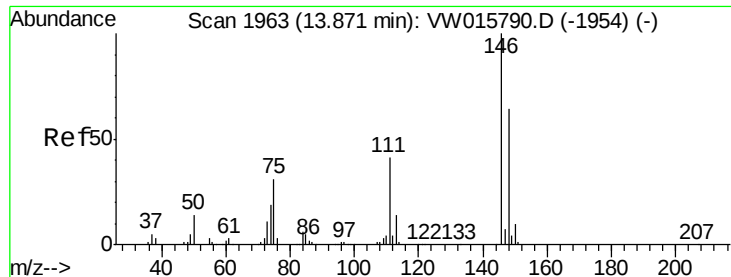
117 100

201 75.6 37.1 111.3



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

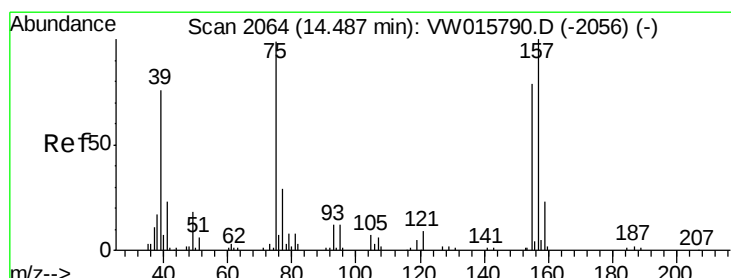
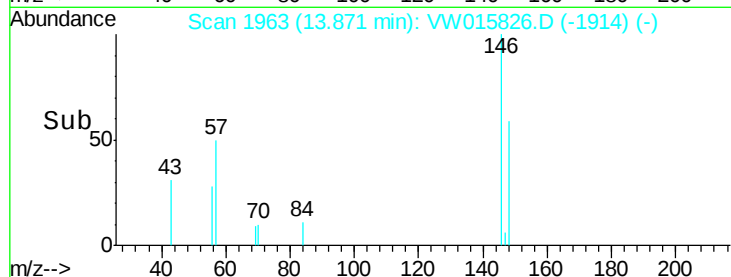
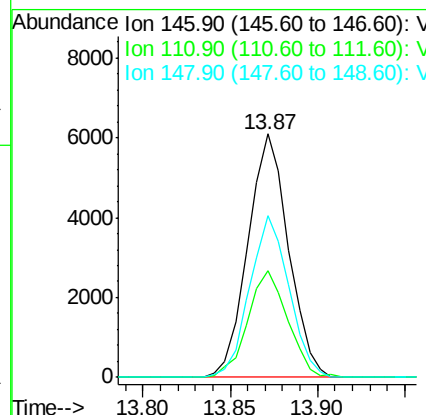
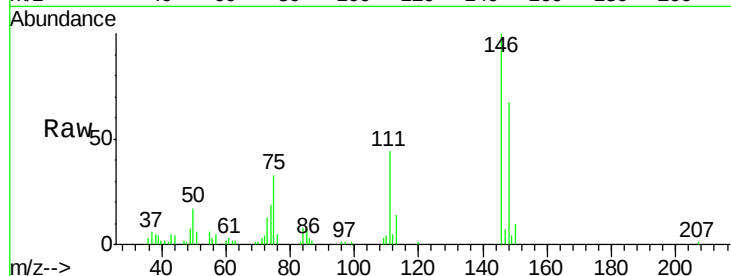




#91
 1,2-Dichlorobenzene
 Concen: 2.640 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

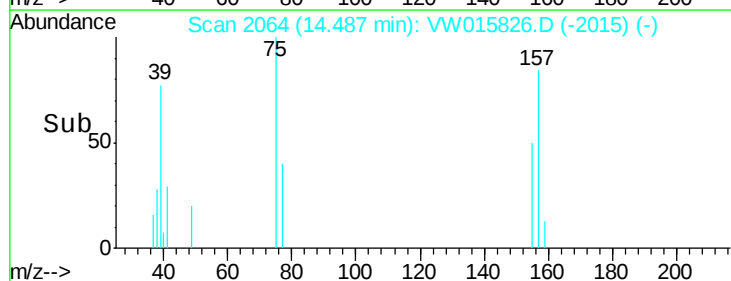
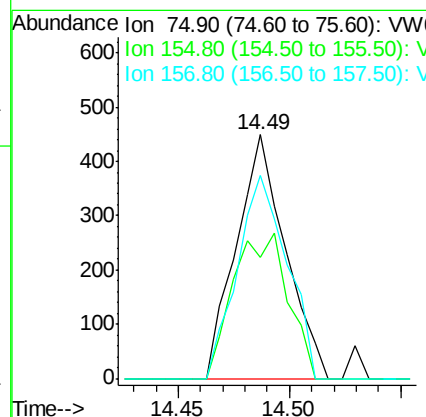
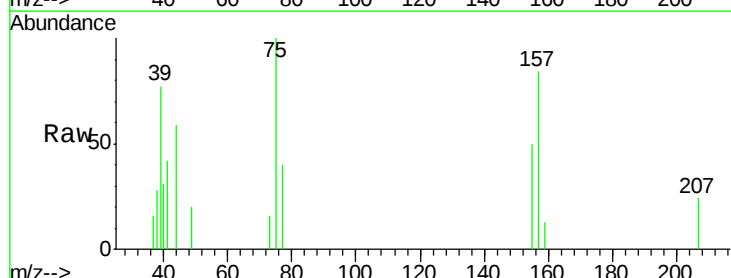
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

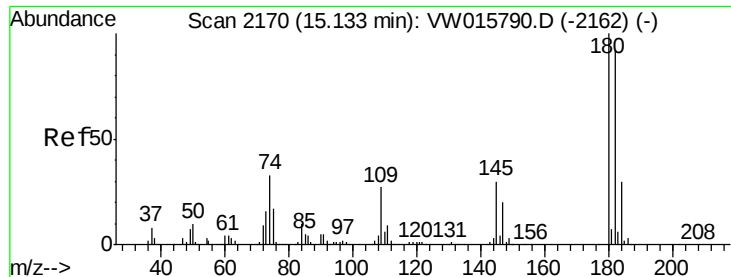
Tot Ion:146 Resp: 9803
 Ion Ratio Lower Upper
 146 100
 111 43.0 20.6 61.9
 148 64.5 31.8 95.4



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.714 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Tgt Ion: 75 Resp: 687
 Ion Ratio Lower Upper
 75 100
 155 66.2 39.1 117.5
 157 84.3 49.1 147.4

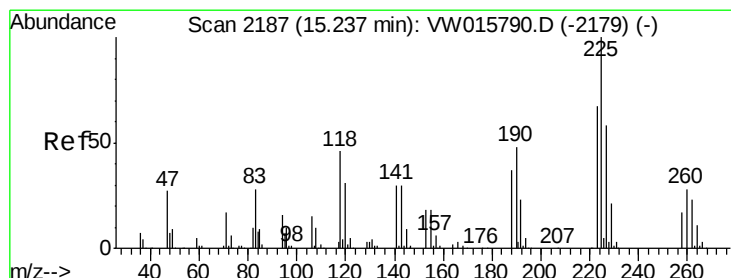
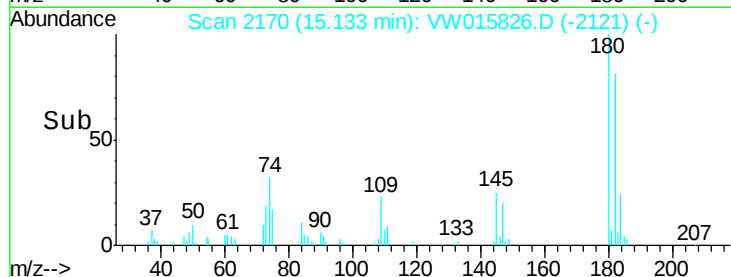
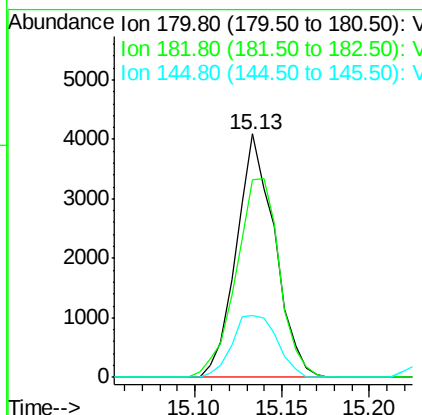
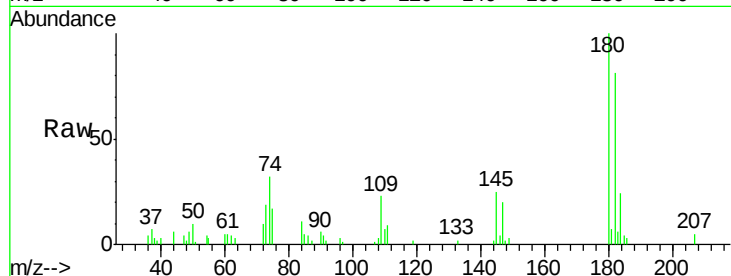




#93
 1,2,4-Trichlorobenzene
 Concen: 2.669 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

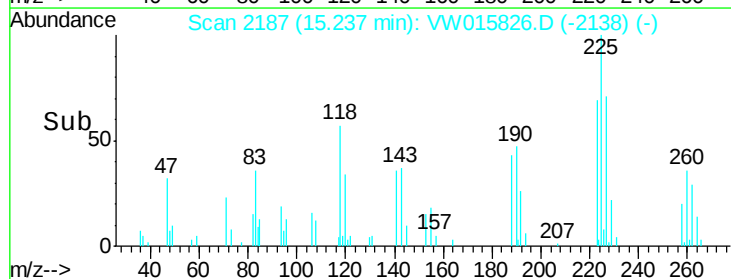
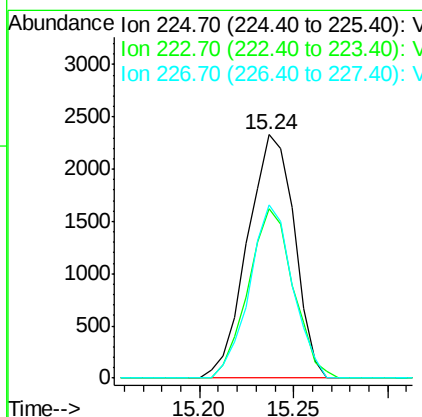
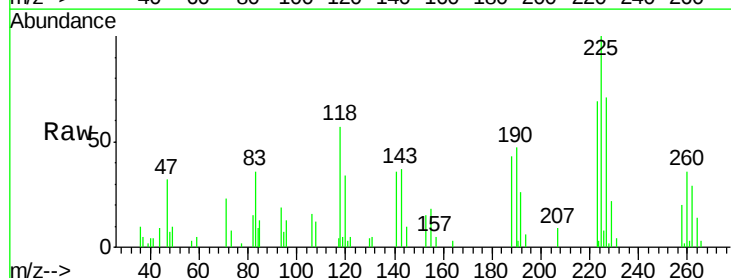
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

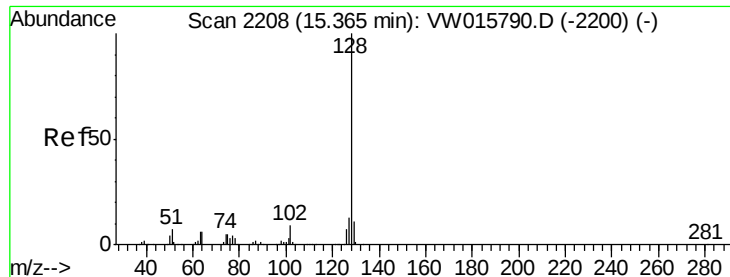
Tot Ion:180 Resp: 6248
 Ion Ratio Lower Upper
 180 100
 182 92.4 46.8 140.3
 145 29.8 15.4 46.4



#94
 Hexachlorobutadiene
 Concen: 2.700 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW015826.D
 Acq: 09 Jul 2020 14:17

Tgt Ion:225 Resp: 4012
 Ion Ratio Lower Upper
 225 100
 223 66.6 32.4 97.2
 227 65.5 30.7 92.1





#95

Naphthalene

Concen: 2.288 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

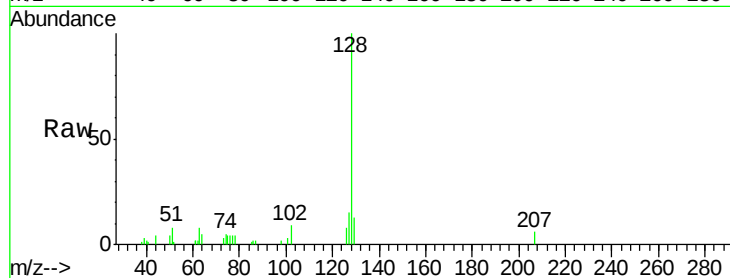
Tot Ion:128 Resp: 8950

Ion Ratio Lower Upper

128 100

127 13.4 10.6 16.0

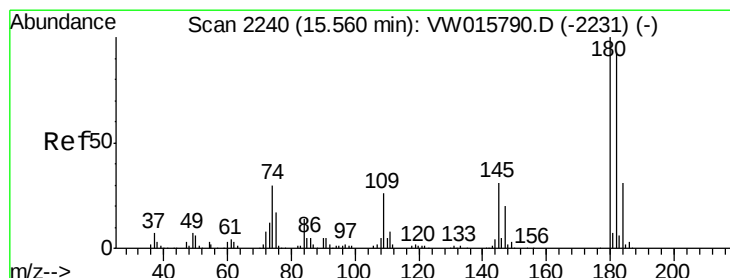
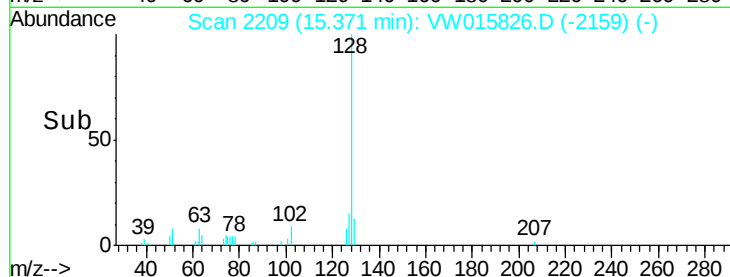
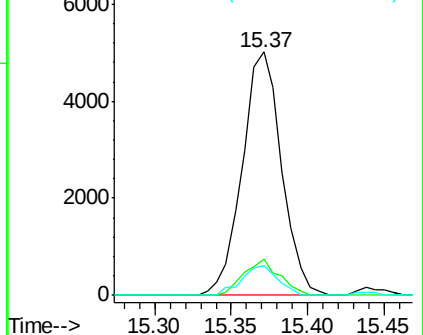
129 11.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.823 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW015826.D

Acq: 09 Jul 2020 14:17

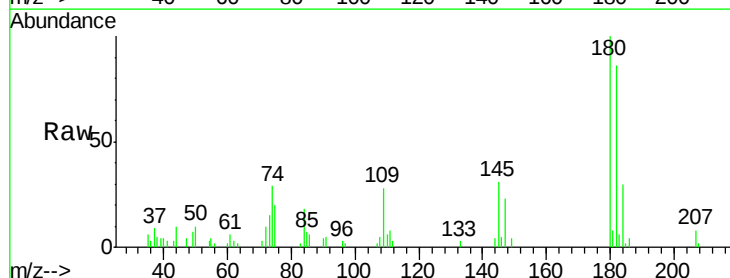
Tgt Ion:180 Resp: 5622

Ion Ratio Lower Upper

180 100

182 90.0 47.7 143.1

145 30.3 16.7 50.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

