

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070720\
 Data File : VW015798.D
 Acq On : 07 Jul 2020 18:28
 Operator : SY/VA
 Sample : L3126-01 4PPBLOD
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Quant Time: Jul 08 08:50:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070720S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 08 08:47:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	205285	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	332988	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	301336	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	143498	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	102161	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
35) Dibromofluoromethane	7.89	113	89636	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	
50) Toluene-d8	10.33	98	344664	46.19	ug/l	0.00
Spiked Amount			Recovery	=	92.38%	
62) 4-Bromofluorobenzene	12.62	95	125862	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	4852	4.488	ug/l	89
3) Chloromethane	2.21	50	7366	5.017	ug/l	97
4) Vinyl Chloride	2.37	62	10099	4.455	ug/l	98
5) Bromomethane	2.79	94	7390	4.260	ug/l	96
6) Chloroethane	2.93	64	6597	4.312	ug/l	97
7) Trichlorofluoromethane	3.26	101	6567	4.031	ug/l	96
8) Diethyl Ether	3.68	74	4523	4.455	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	4.07	101	8518	4.466	ug/l	97
10) Methyl Iodide	4.27	142	11163	4.186	ug/l	99
11) Tert butyl alcohol	5.17	59	4262	36.105	ug/l #	90
12) 1,1-Dichloroethene	4.04	96	8385	4.472	ug/l	89
13) Acrolein	3.88	56	3171	21.624	ug/l	97
14) Allyl chloride	4.67	41	12556	4.120	ug/l	98
15) Acrylonitrile	5.38	53	9031	22.753	ug/l	98
16) Acetone	4.13	43	10007	25.300	ug/l	94
17) Carbon Disulfide	4.38	76	22960	4.116	ug/l #	95
18) Methyl Acetate	4.68	43	4673	5.191	ug/l	95
19) Methyl tert-butyl Ether	5.43	73	12962	4.619	ug/l	97
20) Methylene Chloride	4.92	84	20863	9.083	ug/l	95
21) trans-1,2-Dichloroethene	5.42	96	9038	4.161	ug/l	96
22) Diisopropyl ether	6.32	45	25866	4.211	ug/l #	89
23) Vinyl Acetate	6.26	43	71001	19.436	ug/l	98
24) 1,1-Dichloroethane	6.22	63	16483	4.239	ug/l	99
25) 2-Butanone	7.18	43	12616	23.498	ug/l #	88
26) 2,2-Dichloropropane	7.17	77	11161	4.575	ug/l	97
27) cis-1,2-Dichloroethene	7.18	96	9895	4.243	ug/l	94
28) Bromochloromethane	7.51	49	6613	4.290	ug/l	100
29) Tetrahydrofuran	7.54	42	7022	21.553	ug/l	95
30) Chloroform	7.68	83	17166	4.318	ug/l	96
31) Cyclohexane	7.96	56	18439	5.038	ug/l #	84
32) 1,1,1-Trichloroethane	7.88	97	14277	4.283	ug/l	97
36) 1,1-Dichloropropene	8.09	75	13414	4.087	ug/l	99
37) Ethyl Acetate	7.26	43	5440	4.265	ug/l	98
38) Carbon Tetrachloride	8.07	117	12947	4.076	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	15177	3.918	ug/l	98
40) Benzene	8.32	78	37072	4.123	ug/l	96
41) Methacrylonitrile	7.49	41	3141	4.338	ug/l	97
42) 1,2-Dichloroethane	8.40	62	11998	4.287	ug/l	98
43) Isopropyl Acetate	8.43	43	10375	4.167	ug/l	99
44) Trichloroethene	9.10	130	9828	4.132	ug/l	93
45) 1,2-Dichloropropane	9.37	63	9229	4.176	ug/l	99
46) Dibromomethane	9.46	93	4858	4.269	ug/l	97
47) Bromodichloromethane	9.65	83	11809	4.012	ug/l	97
48) Methyl methacrylate	9.44	41	4432	3.884	ug/l	92
49) 1,4-Dioxane	9.45	88	1178	83.739	ug/l #	88
51) 4-Methyl-2-Pentanone	10.21	43	24902	20.498	ug/l	99
52) Toluene	10.39	92	23725	4.100	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	10358	3.668	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	12717	3.765	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	6524	4.135	ug/l	93
56) Ethyl methacrylate	10.65	69	7412	3.821	ug/l	94
57) 1,3-Dichloropropane	10.93	76	11917	4.267	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	17258	18.208	ug/l	100
59) 2-Hexanone	10.97	43	16087	19.842	ug/l	97
60) Dibromochloromethane	11.13	129	6815	3.740	ug/l	98
61) 1,2-Dibromoethane	11.24	107	6173	4.089	ug/l	95
64) Tetrachloroethene	10.87	164	8174	4.286	ug/l	94
65) Chlorobenzene	11.66	112	24950	4.234	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	8157	3.911	ug/l	98
67) Ethyl Benzene	11.73	91	43805	4.014	ug/l	95
68) m/p-Xylenes	11.84	106	32570	7.945	ug/l	99
69) o-Xylene	12.17	106	14659	3.917	ug/l	99
70) Styrene	12.18	104	24063	3.737	ug/l	99
71) Bromoform	12.35	173	3284	3.450	ug/l #	97
73) Isopropylbenzene	12.47	105	40196	3.976	ug/l	99
74) N-amyl acetate	12.27	43	8514	3.936	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.72	83	7333	4.366	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	9245	7.331	ug/l	32
77) Bromobenzene	12.75	156	9676	4.269	ug/l	99
78) n-propylbenzene	12.80	91	50059	4.080	ug/l	100
79) 2-Chlorotoluene	12.90	91	28927	4.134	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	34984	4.060	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	69221	140.286	ug/l #	7
82) 4-Chlorotoluene	12.99	91	30736	4.206	ug/l	98
83) tert-Butylbenzene	13.21	119	29172	4.078	ug/l	100
84) 1,2,4-Trimethylbenzene	13.26	105	34842	4.049	ug/l	97
85) sec-Butylbenzene	13.38	105	41218	3.990	ug/l	100
86) p-Isopropyltoluene	13.50	119	37161	3.939	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	19403	4.270	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	19248	4.327	ug/l	90
89) n-Butylbenzene	13.82	91	35290	3.909	ug/l	98
90) Hexachloroethane	14.10	117	6765	3.957	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	17123	4.350	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	1110	4.136	ug/l	95

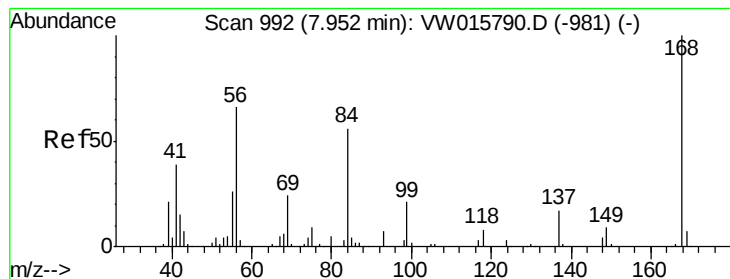
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	9690	3.904	ug/l	98
94) Hexachlorobutadiene	15.24	225	6690	4.246	ug/l	95
95) Naphthalene	15.37	128	14822	3.573	ug/l	100
96) 1,2,3-Trichlorobenzene	15.55	180	8849	4.190	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

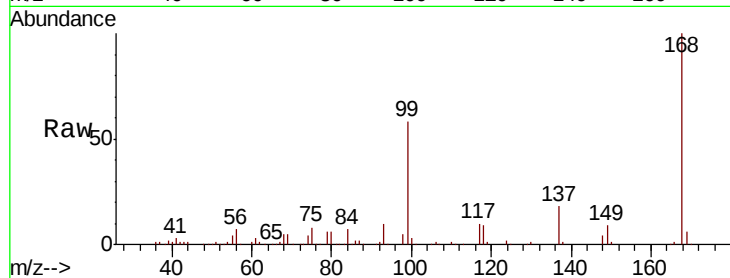
LOD-MDL-SOIL-01-QT3-2020

Tot Ion:168 Resp: 205285

Ion Ratio Lower Upper

168 100

99 57.9 47.8 71.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

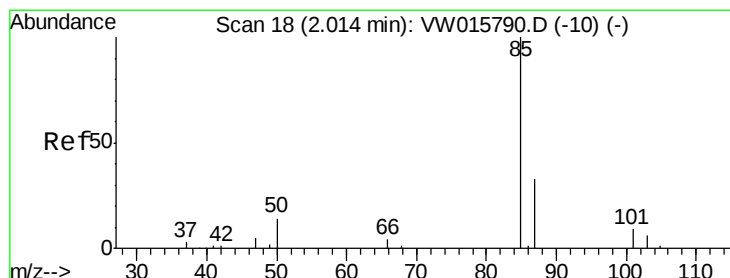
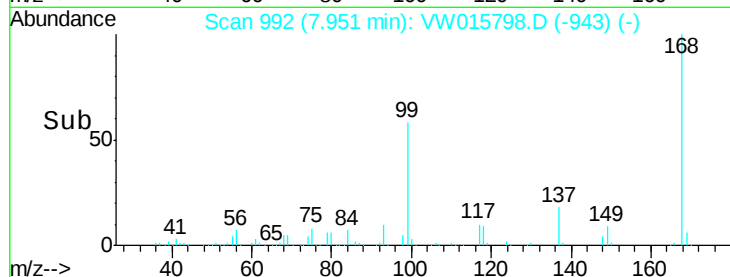
40000

20000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 4.488 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW015798.D

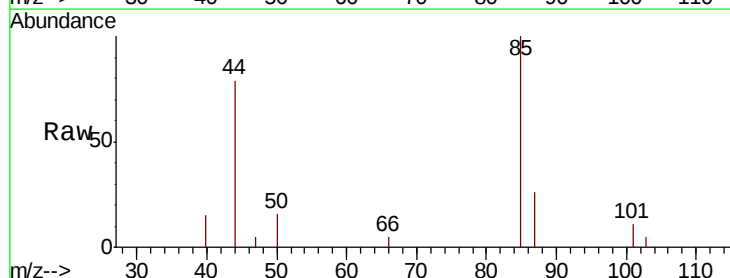
Acq: 07 Jul 2020 18:28

Tgt Ion: 85 Resp: 4852

Ion Ratio Lower Upper

85 100

87 26.3 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

1500

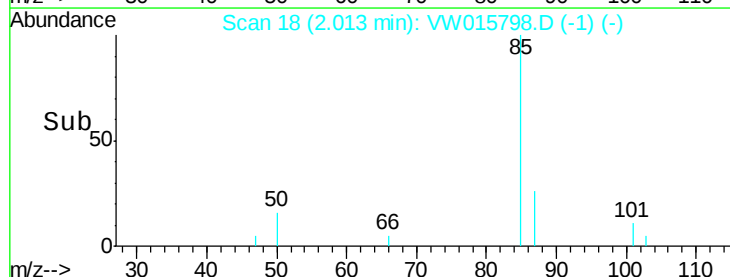
1000

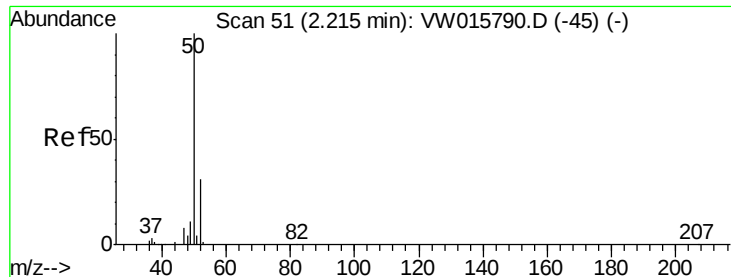
500

0

1.90 2.00 2.10 2.20

Time-->





#3

Chloromethane

Concen: 5.017 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

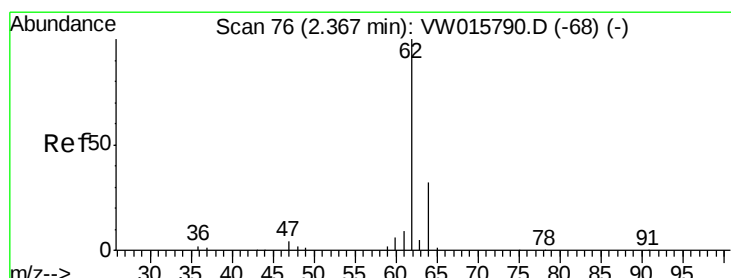
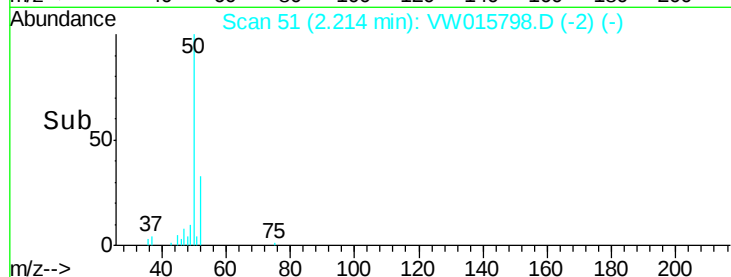
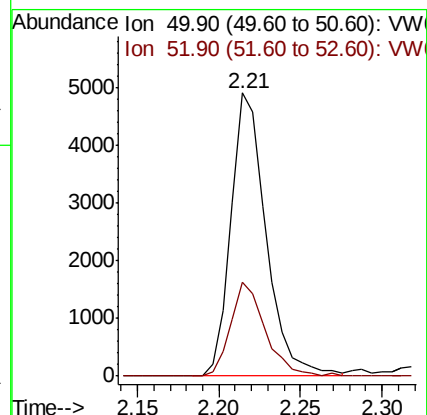
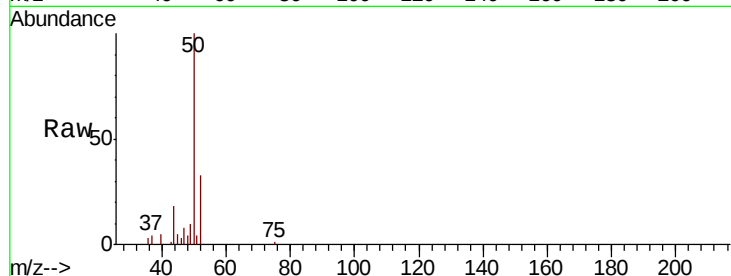
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 50 Resp: 7366

Ion Ratio Lower Upper

50 100

52 33.3 25.2 37.8



#4

Vinyl Chloride

Concen: 4.455 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW015798.D

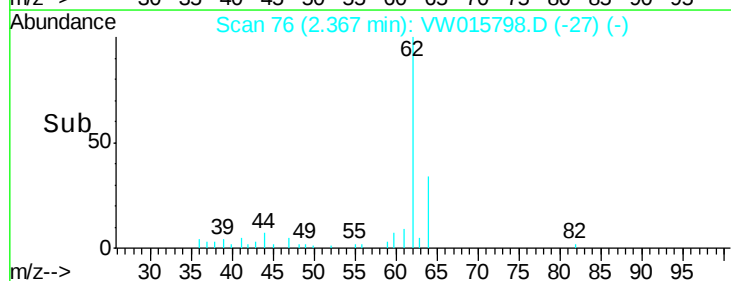
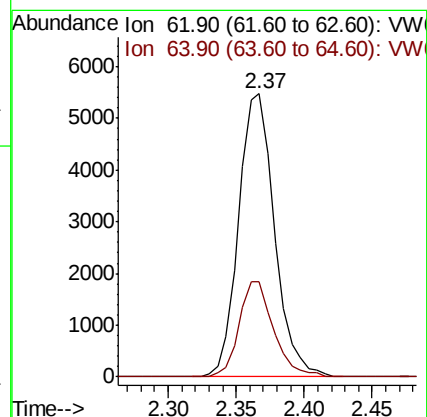
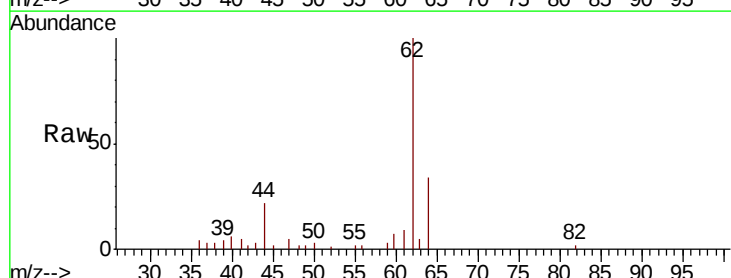
Acq: 07 Jul 2020 18:28

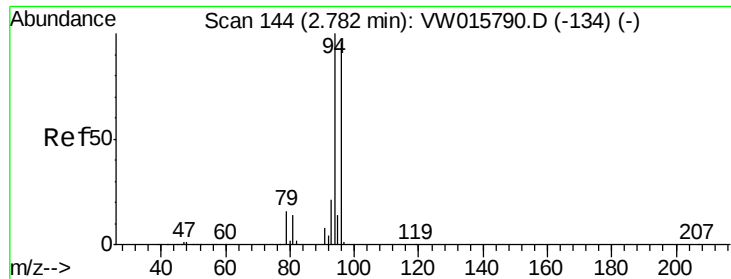
Tgt Ion: 62 Resp: 10099

Ion Ratio Lower Upper

62 100

64 33.7 25.8 38.8





#5

Bromomethane

Concen: 4.260 ug/l

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

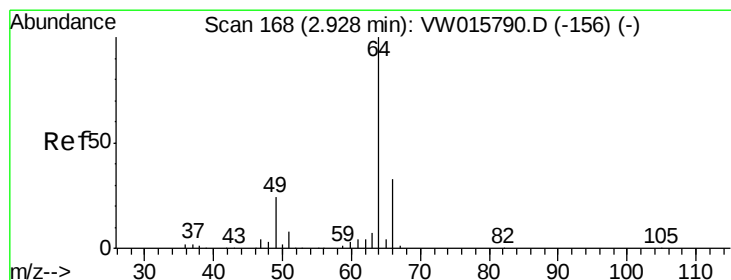
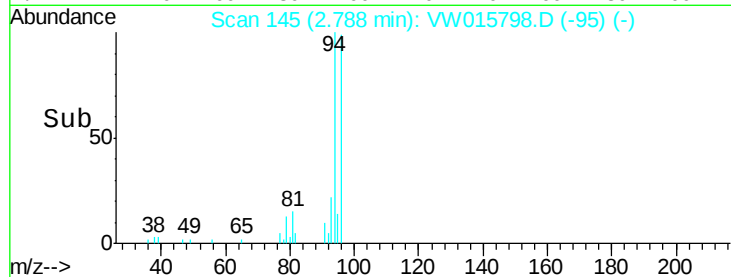
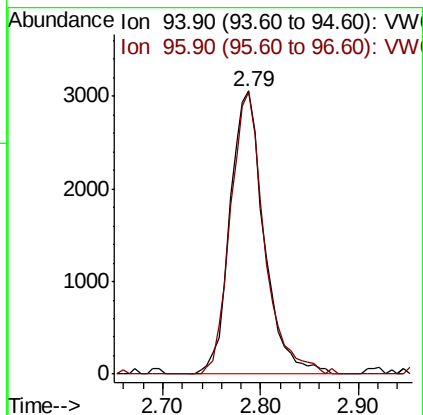
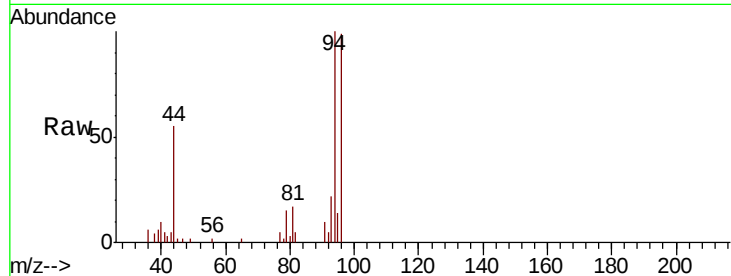
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 94 Resp: 7390

Ion Ratio Lower Upper

94 100

96 99.5 76.7 115.1



#6

Chloroethane

Concen: 4.312 ug/l

RT: 2.93 min Scan# 169

Delta R.T. 0.01 min

Lab File: VW015798.D

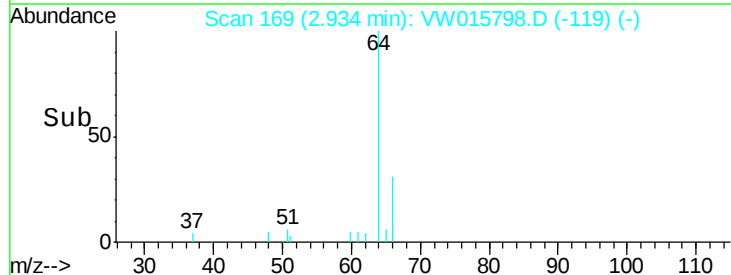
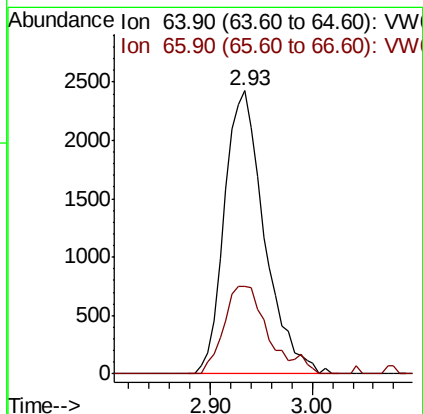
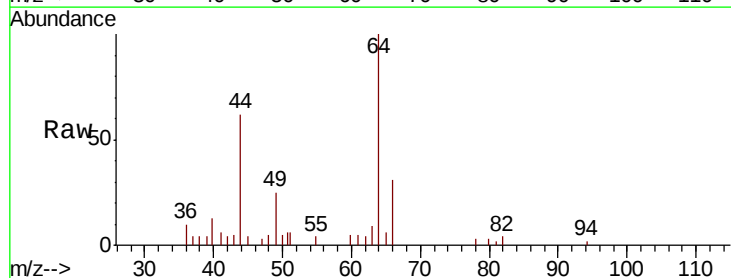
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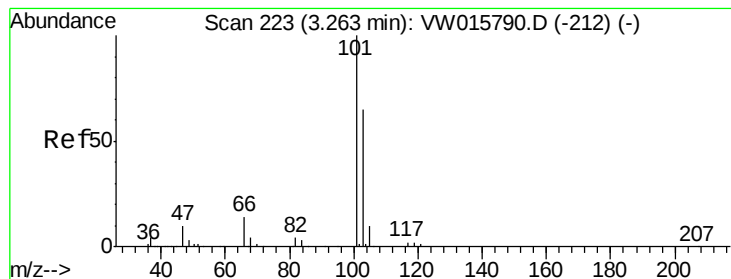
Tgt Ion: 64 Resp: 6597

Ion Ratio Lower Upper

64 100

66 30.8 26.0 39.0



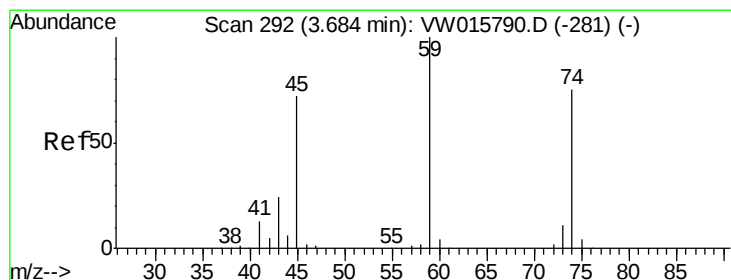
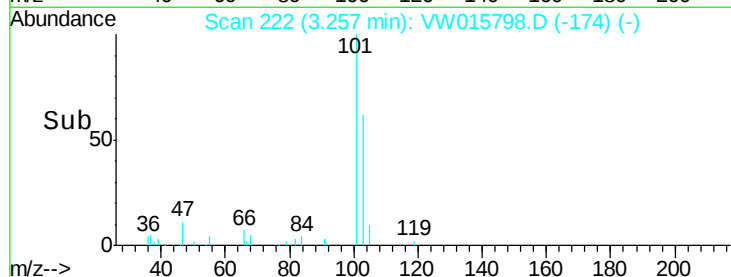
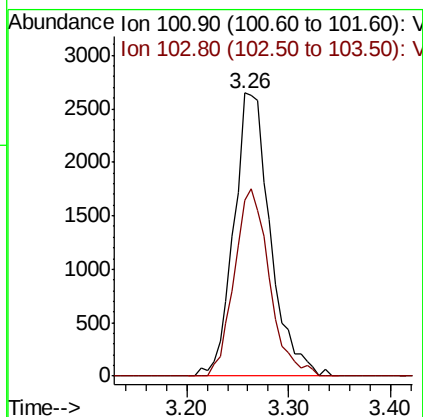
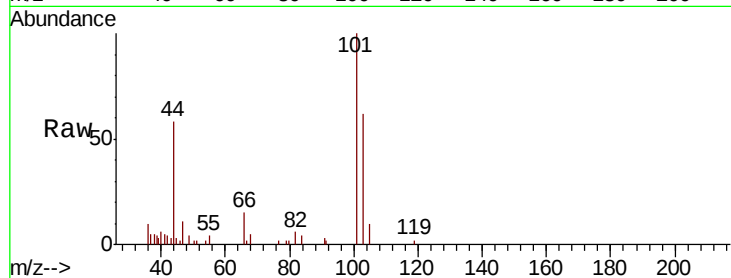


#7

Trichlorofluoromethane
 Concen: 4.031 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. -0.01 min
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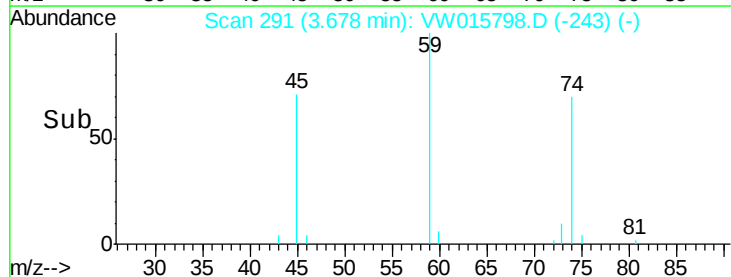
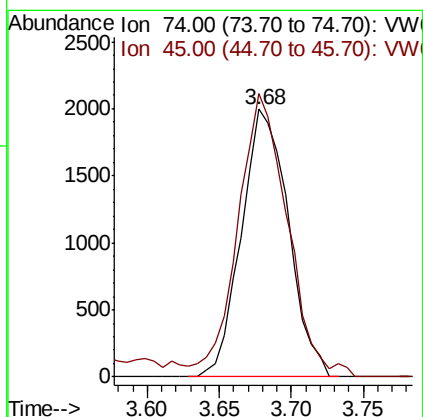
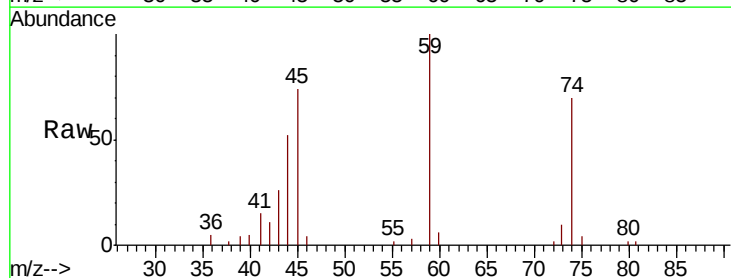
Tot Ion:101 Resp: 6567
 Ion Ratio Lower Upper
 101 100
 103 62.3 52.2 78.4

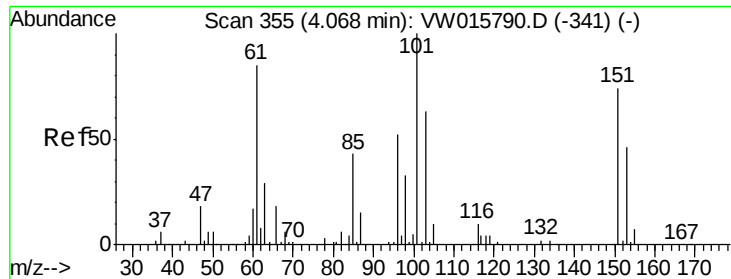


#8

Diethyl Ether
 Concen: 4.455 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.01 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 74 Resp: 4523
 Ion Ratio Lower Upper
 74 100
 45 111.7 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.466 ug/l

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

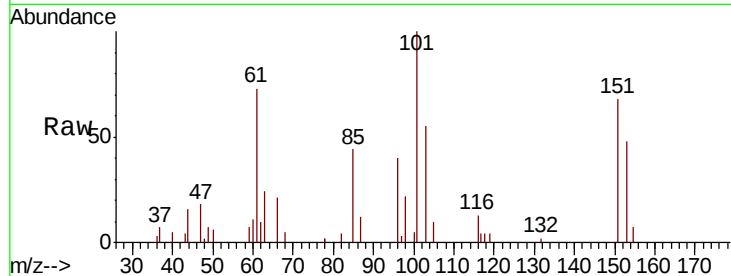
Tot Ion:101 Resp: 8518

Ion Ratio Lower Upper

101 100

85 43.6 36.1 54.1

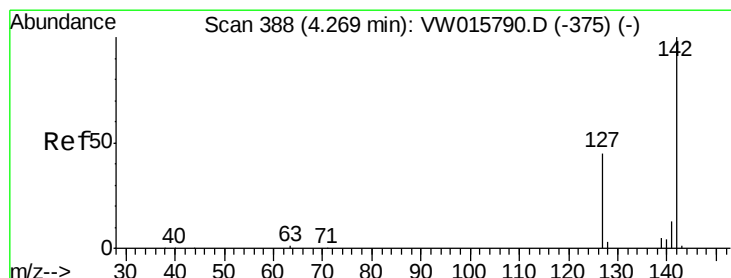
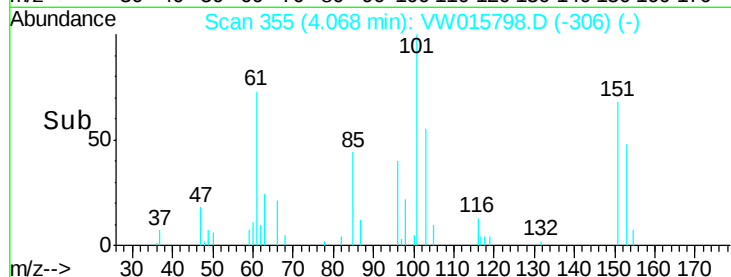
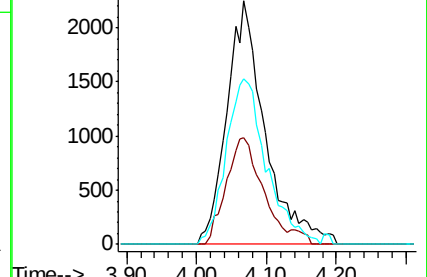
151 71.8 60.3 90.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.186 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

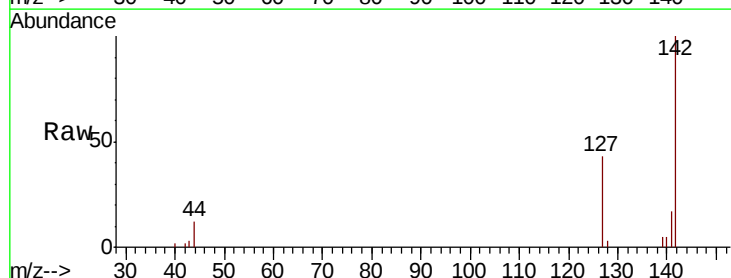
Tgt Ion:142 Resp: 11163

Ion Ratio Lower Upper

142 100

127 44.5 36.1 54.1

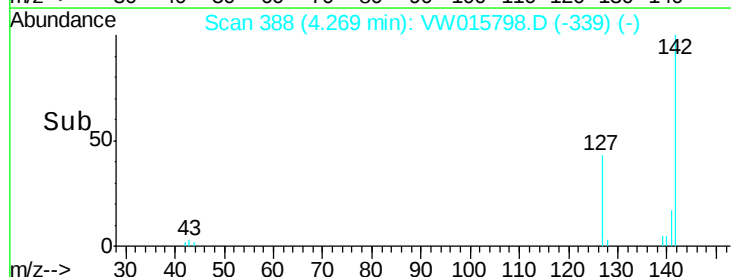
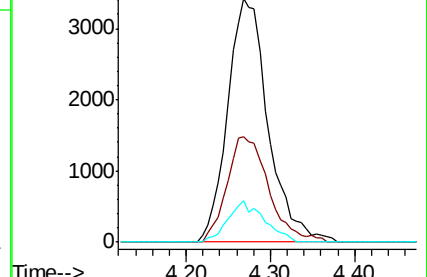
141 15.1 11.7 17.5

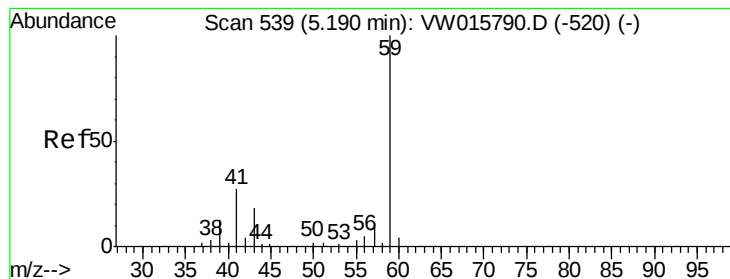


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



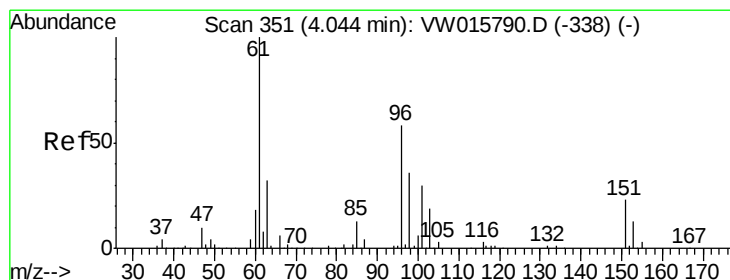
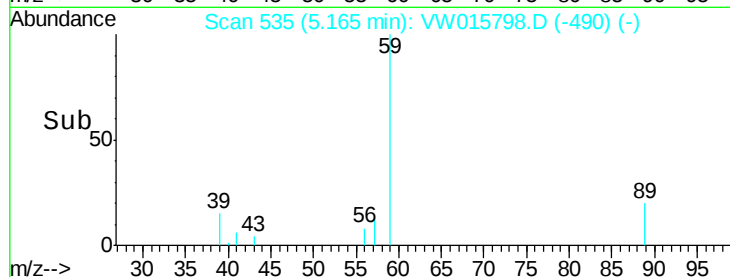
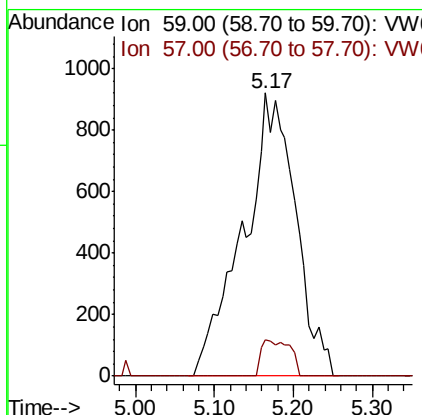
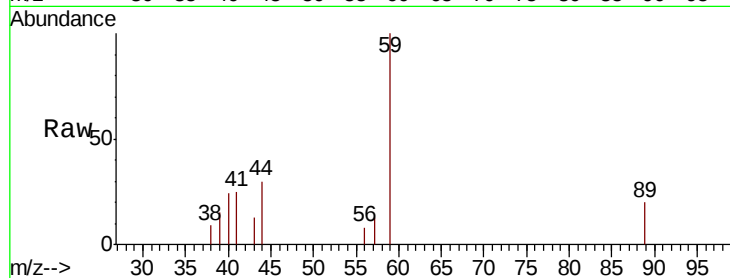


#11

Tert butyl alcohol
 Concen: 36.105 ug/l
 RT: 5.17 min Scan# 535
 Delta R.T. -0.02 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

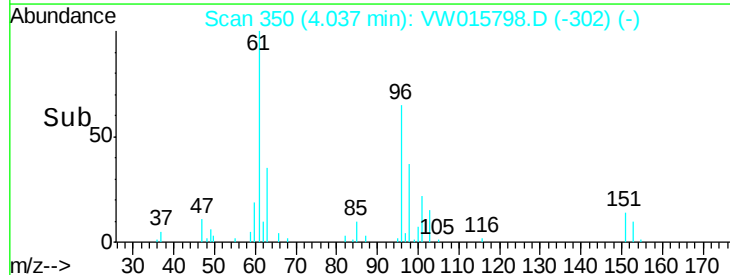
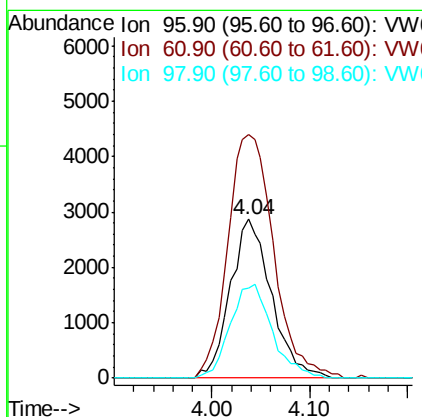
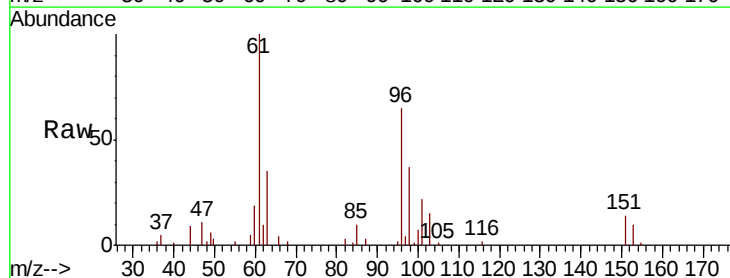
Tot Ion: 59 Resp: 4262
 Ion Ratio Lower Upper
 59 100
 57 7.0 8.7 13.1#

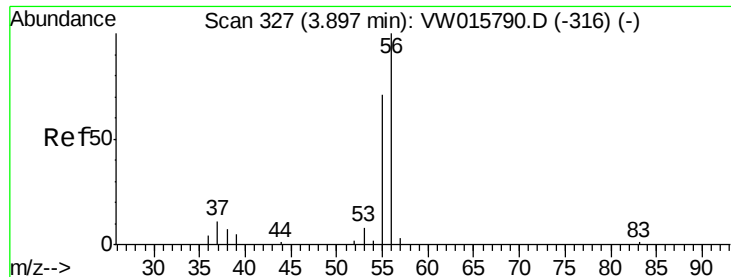


#12

1,1-Dichloroethene
 Concen: 4.472 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 96 Resp: 8385
 Ion Ratio Lower Upper
 96 100
 61 153.3 137.0 205.4
 98 56.6 49.3 73.9





#13

Acrolein

Concen: 21.624 ug/l

RT: 3.88 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

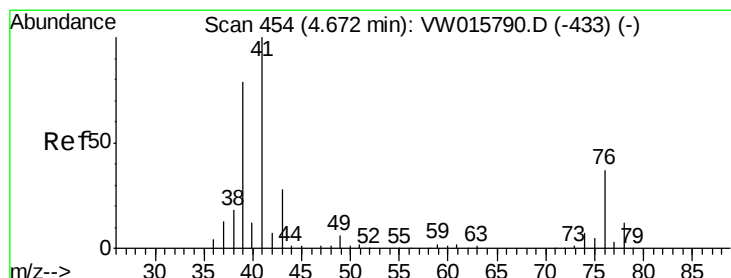
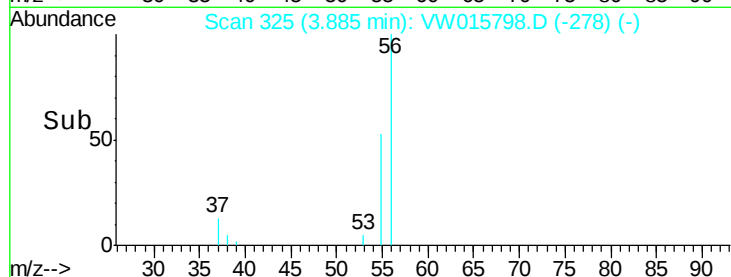
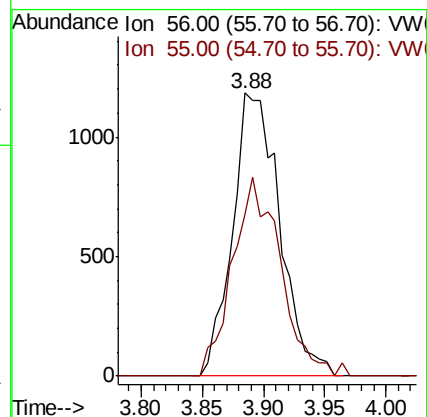
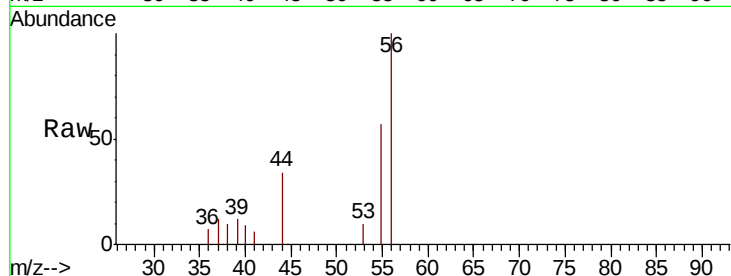
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 56 Resp: 3171

Ion Ratio Lower Upper

56 100

55 71.8 55.8 83.6



#14

Allyl chloride

Concen: 4.120 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

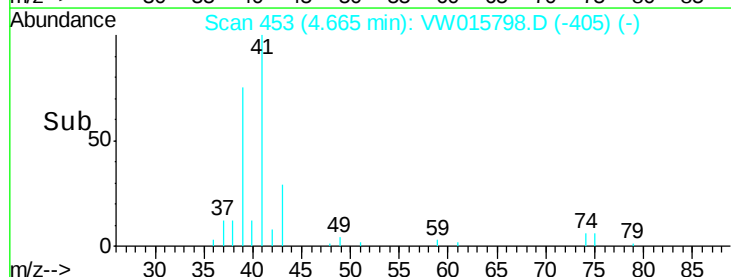
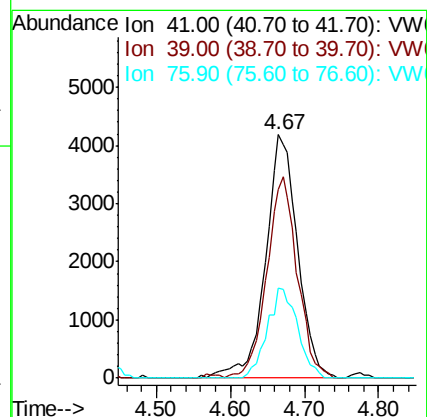
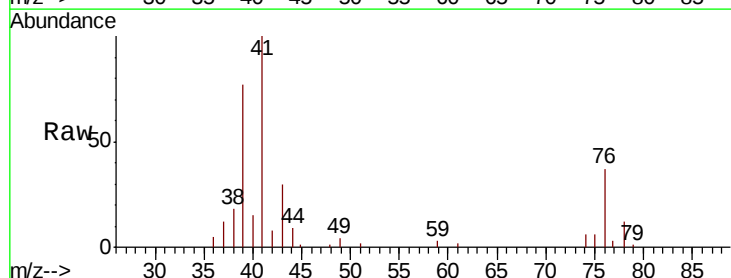
Tgt Ion: 41 Resp: 12556

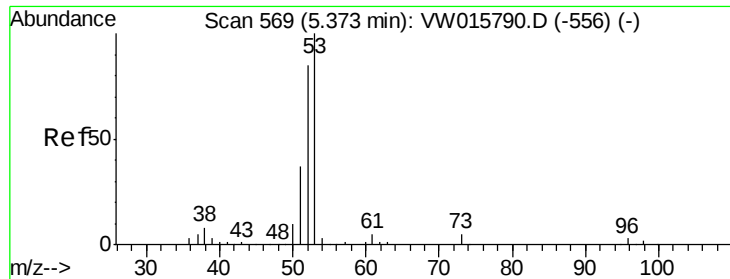
Ion Ratio Lower Upper

41 100

39 78.5 64.0 96.0

76 34.8 28.9 43.3

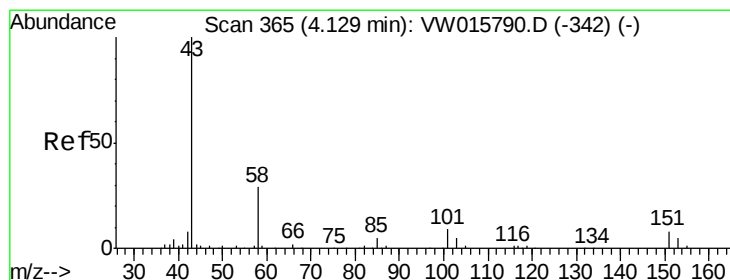
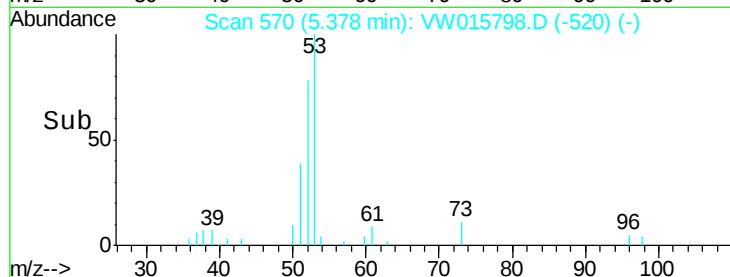
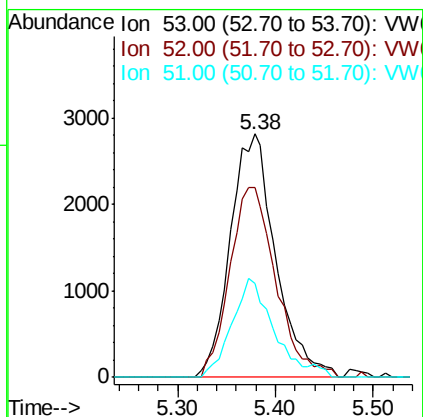
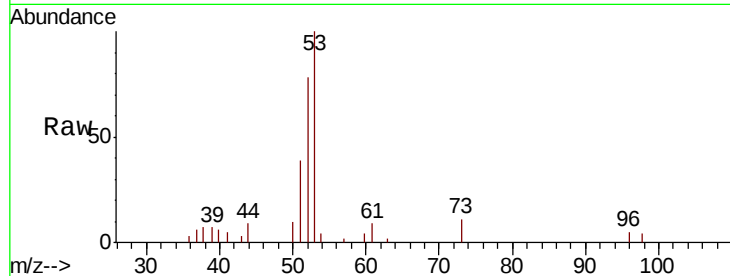




#15
 Acrylonitrile
 Concen: 22.753 ug/l
 RT: 5.38 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

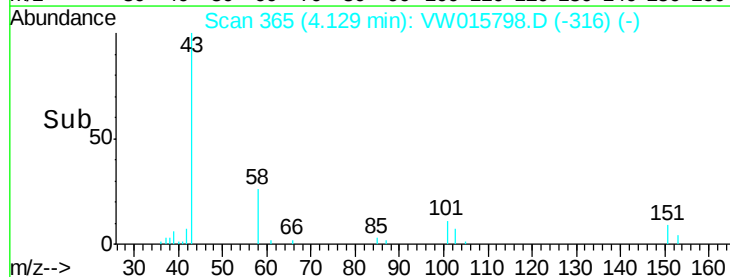
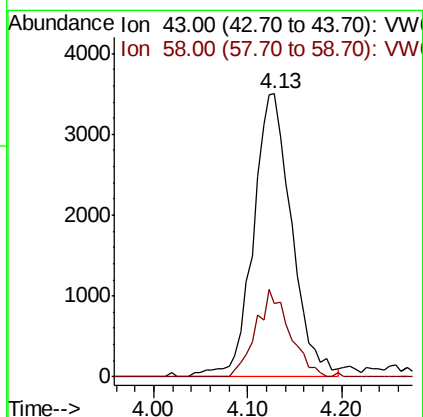
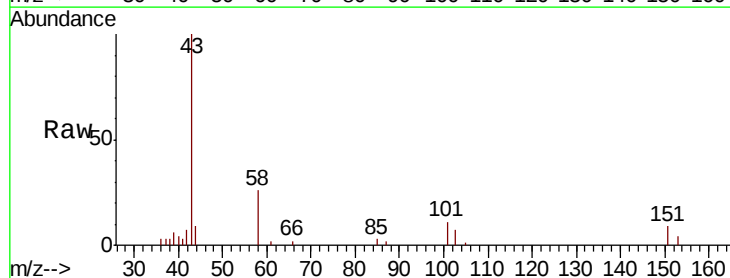
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

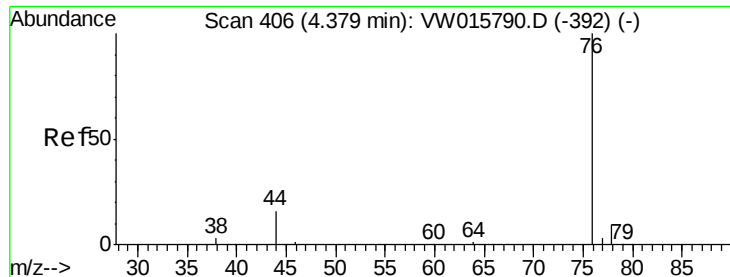
Tot Ion: 53 Resp: 9031
 Ion Ratio Lower Upper
 53 100
 52 79.6 65.8 98.8
 51 38.0 30.2 45.2



#16
 Acetone
 Concen: 25.300 ug/l
 RT: 4.13 min Scan# 365
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 43 Resp: 10007
 Ion Ratio Lower Upper
 43 100
 58 25.9 23.5 35.3

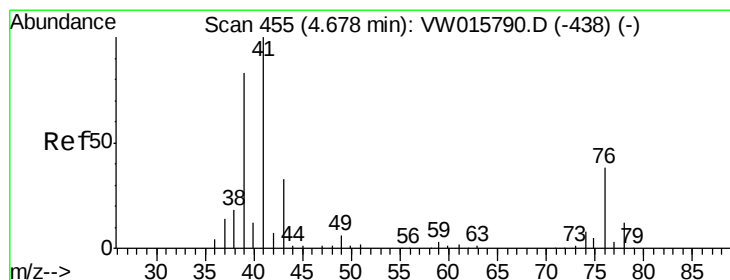
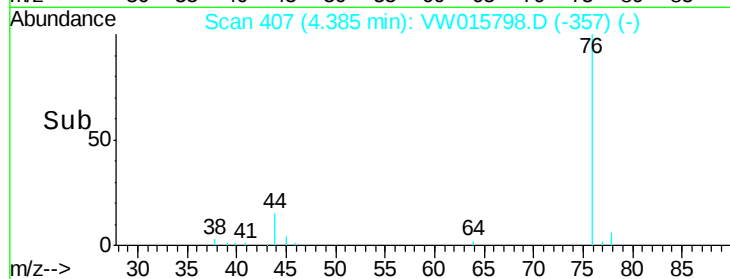
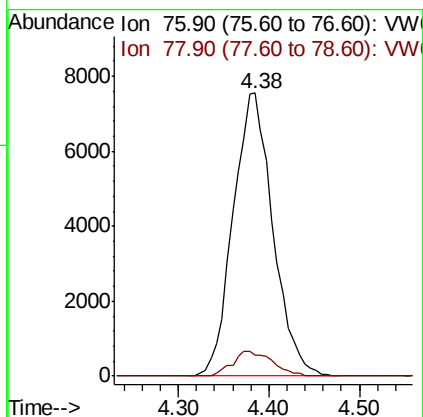
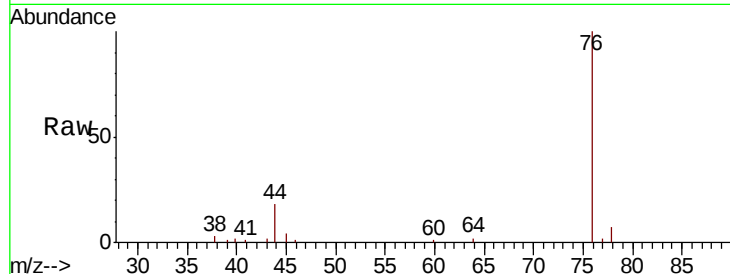




#17
Carbon Disulfide
Concen: 4.116 ug/l
RT: 4.38 min Scan# 407
Delta R.T. 0.01 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

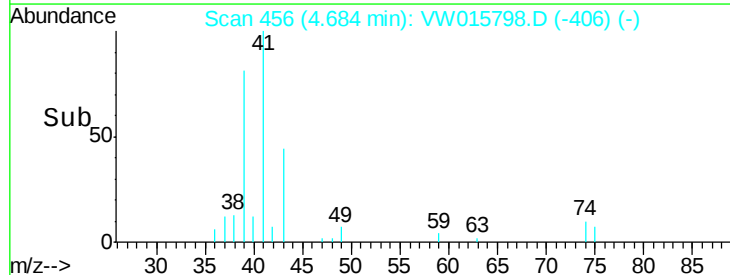
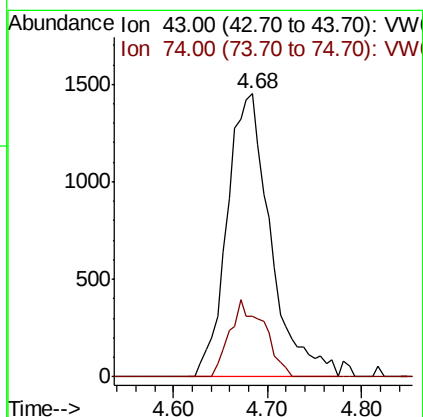
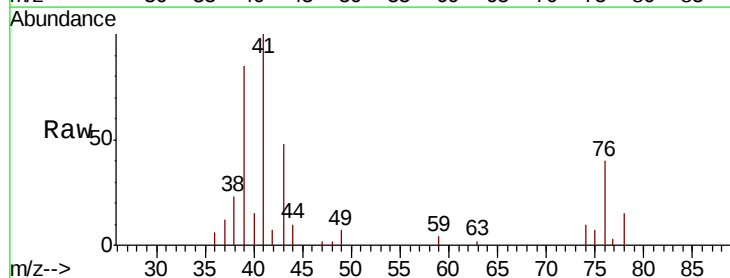
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

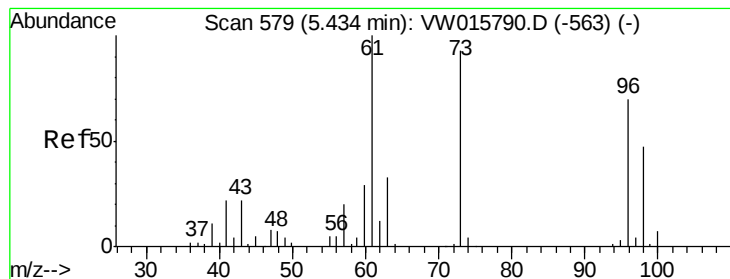
Tot Ion: 76 Resp: 22960
Ion Ratio Lower Upper
76 100
78 7.3 7.4 11.0#



#18
Methyl Acetate
Concen: 5.191 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.01 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion: 43 Resp: 4673
Ion Ratio Lower Upper
43 100
74 21.7 19.2 28.8



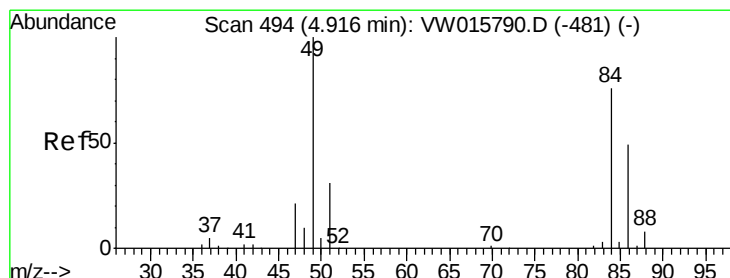
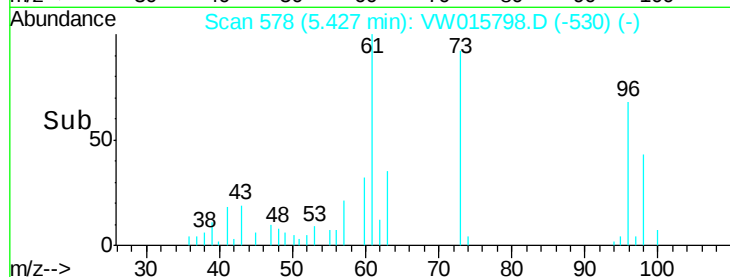
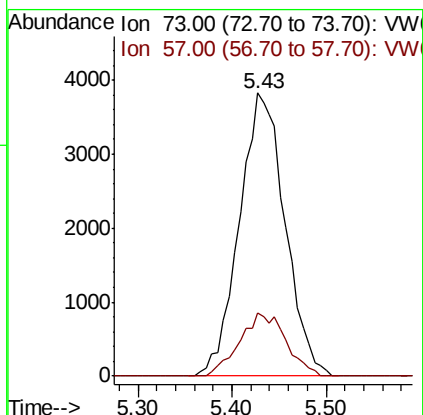
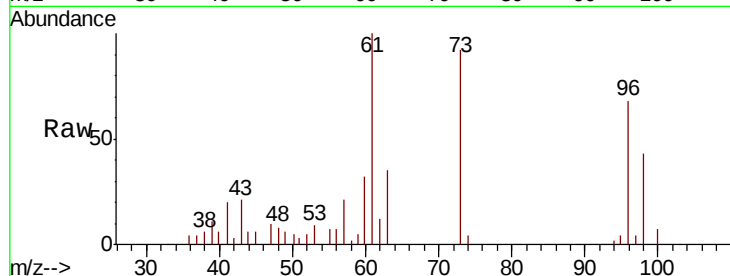


#19

Methyl tert-butyl Ether
 Concen: 4.619 ug/l
 RT: 5.43 min Scan# 578
 Delta R.T. -0.01 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

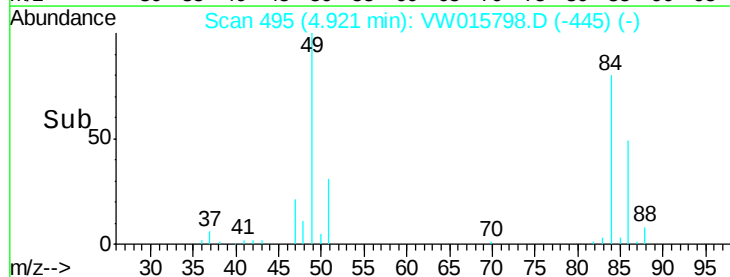
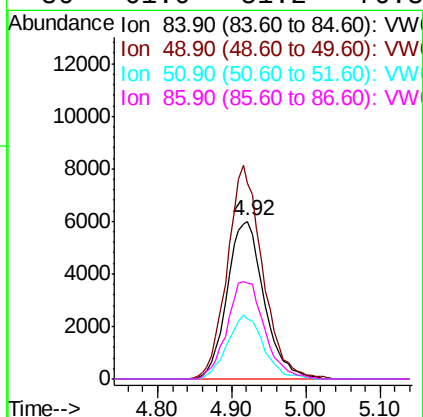
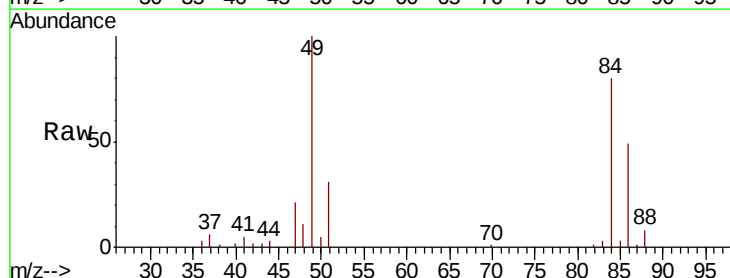
Tot Ion: 73 Resp: 12962
 Ion Ratio Lower Upper
 73 100
 57 22.3 16.8 25.2

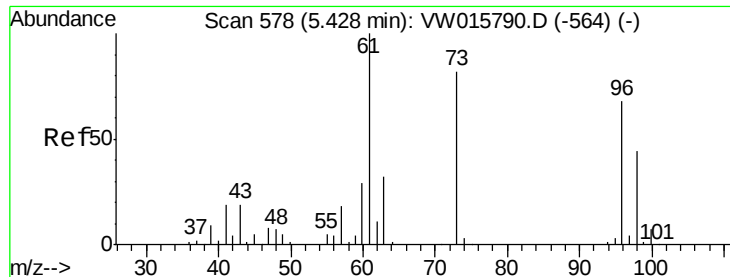


#20

Methylene Chloride
 Concen: 9.083 ug/l
 RT: 4.92 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 84 Resp: 20863
 Ion Ratio Lower Upper
 84 100
 49 124.3 105.0 157.6
 51 38.6 32.3 48.5
 86 61.0 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 4.161 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

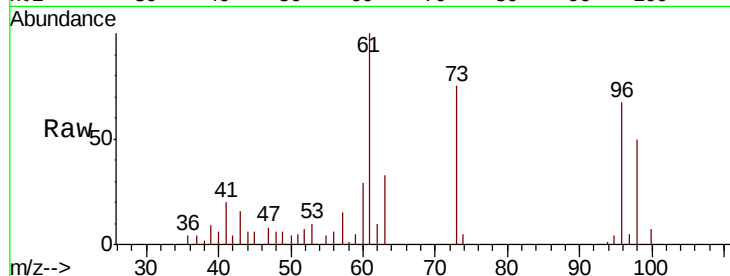
Tot Ion: 96 Resp: 9038

Ion Ratio Lower Upper

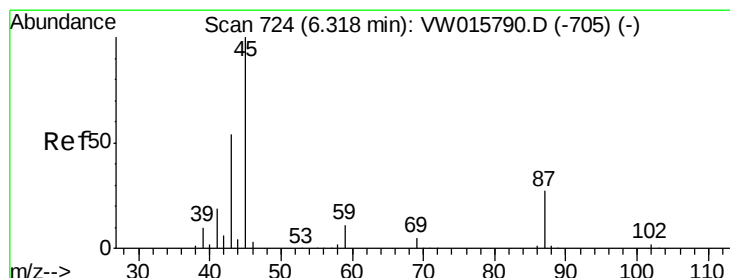
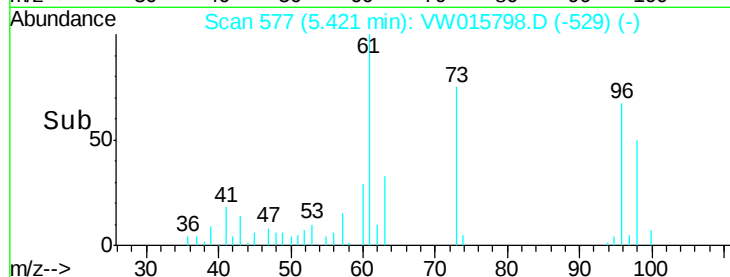
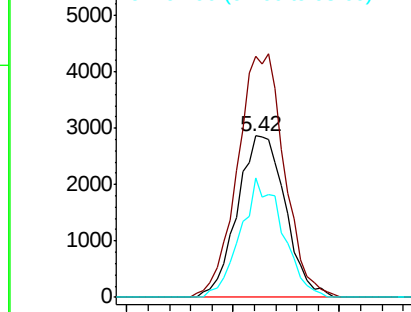
96 100

61 149.5 118.1 177.1

98 74.4 52.6 78.8



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 4.211 ug/l

RT: 6.32 min Scan# 724

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Tgt Ion: 45 Resp: 25866

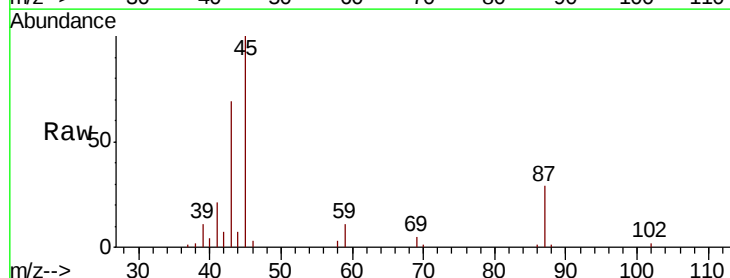
Ion Ratio Lower Upper

45 100

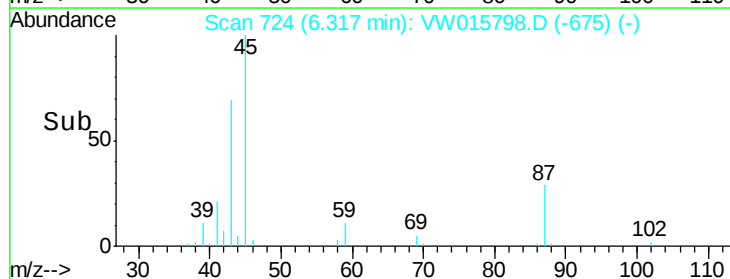
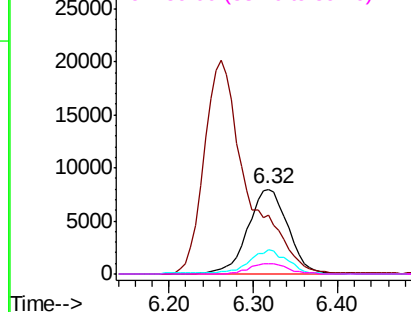
43 67.1 43.8 65.6#

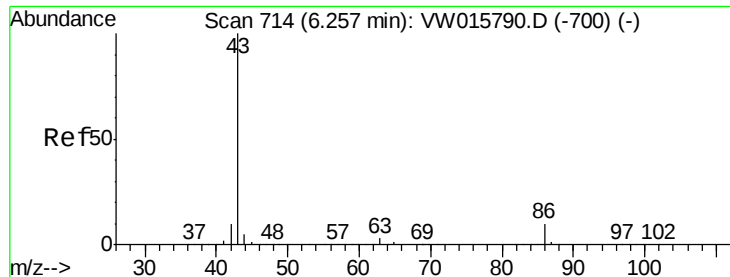
87 28.6 22.1 33.1

59 11.4 8.9 13.3



Abundance Ion 45.00 (44.70 to 45.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 87.00 (86.70 to 87.70): VW
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 19.436 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

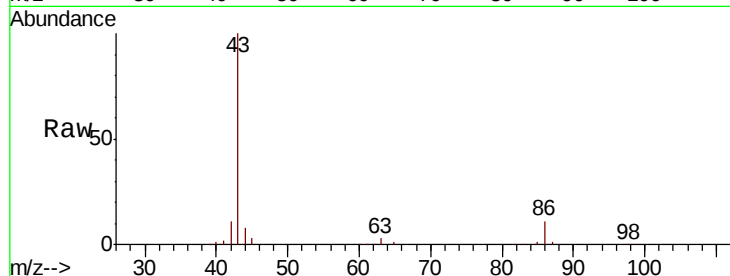
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 43 Resp: 71001

Ion Ratio Lower Upper

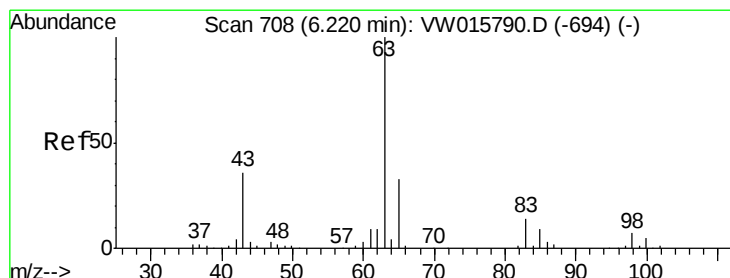
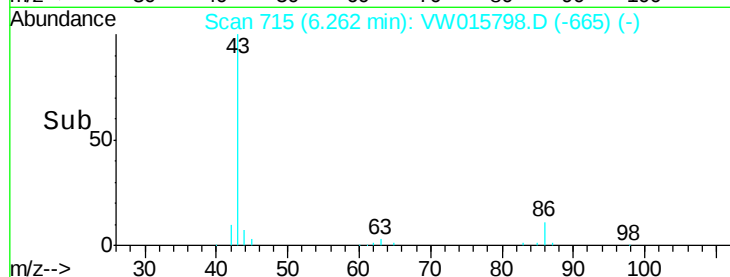
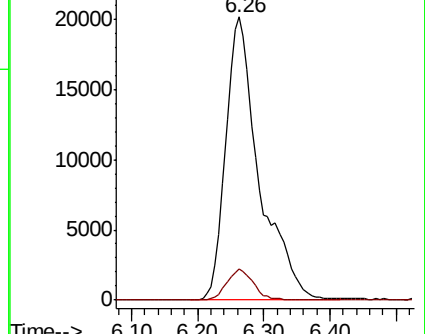
43 100

86 11.1 8.2 12.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 4.239 ug/l

RT: 6.22 min Scan# 708

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

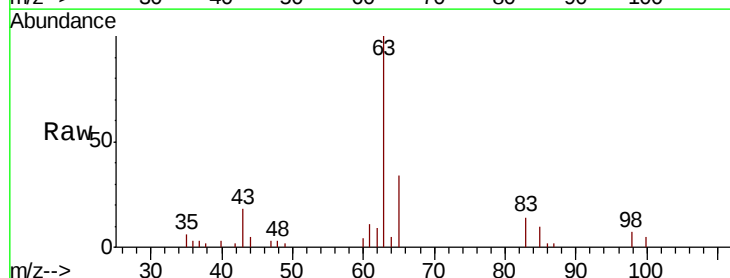
Tgt Ion: 63 Resp: 16483

Ion Ratio Lower Upper

63 100

98 7.1 3.4 10.2

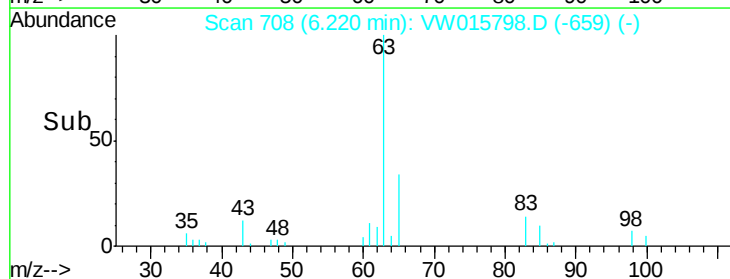
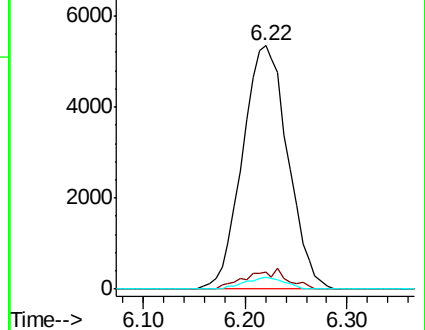
100 5.1 2.4 7.1

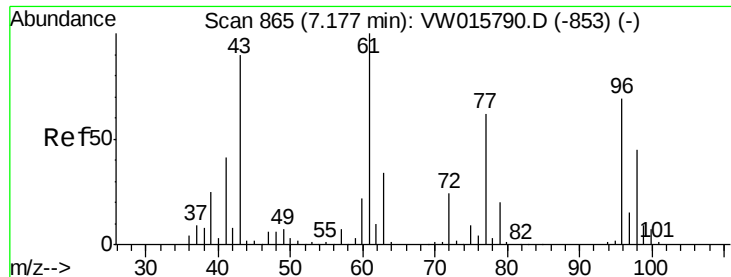


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 23.498 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

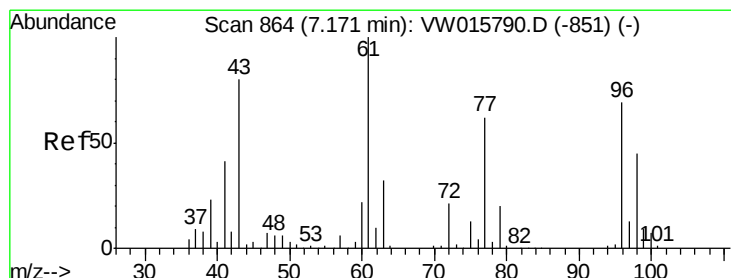
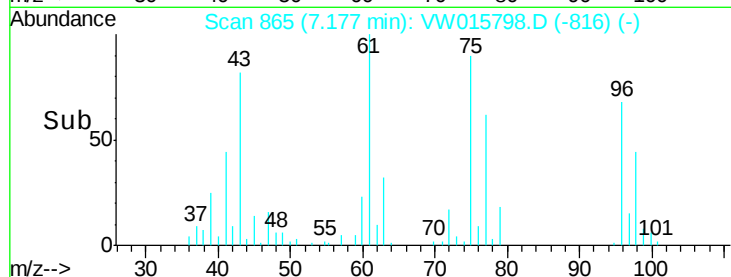
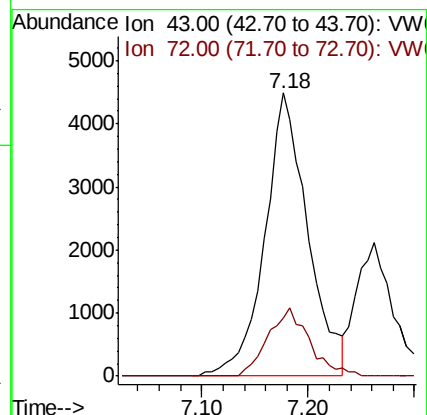
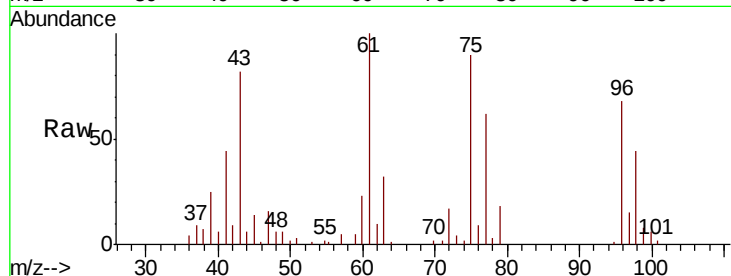
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 43 Resp: 12616

Ion Ratio Lower Upper

43 100

72 20.6 21.3 31.9#



#26

2,2-Dichloropropane

Concen: 4.575 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW015798.D

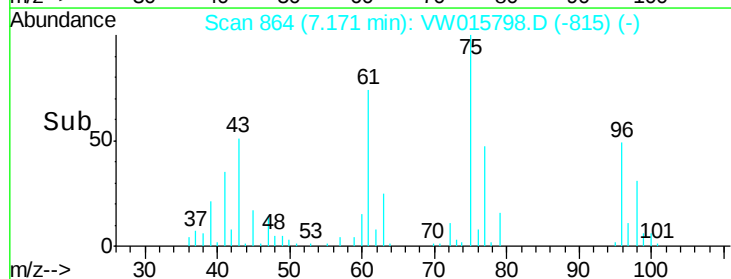
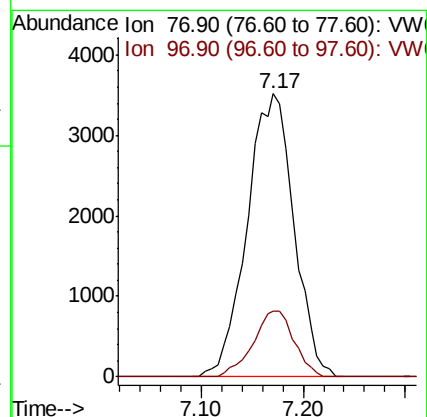
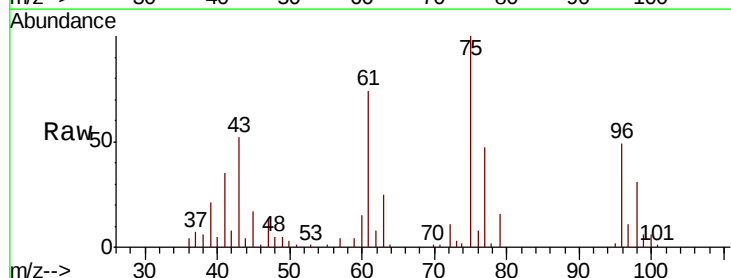
Acq: 07 Jul 2020 18:28

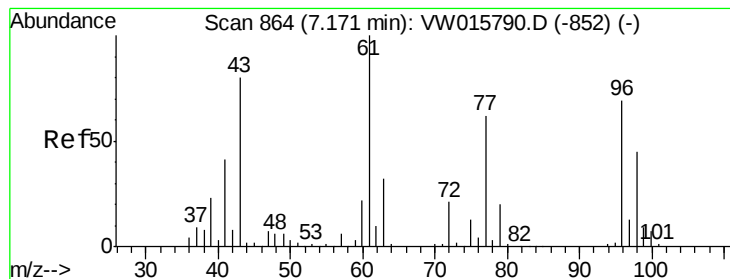
Tgt Ion: 77 Resp: 11161

Ion Ratio Lower Upper

77 100

97 20.5 11.0 33.0





#27

cis-1,2-Dichloroethene

Concen: 4.243 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

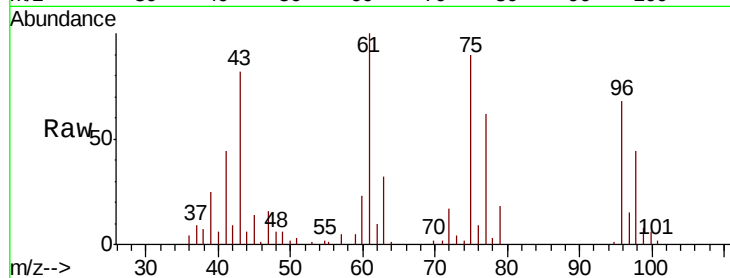
Tot Ion: 96 Resp: 9895

Ion Ratio Lower Upper

96 100

61 156.5 0.0 292.2

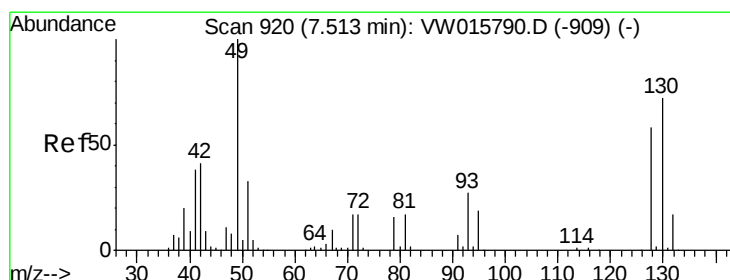
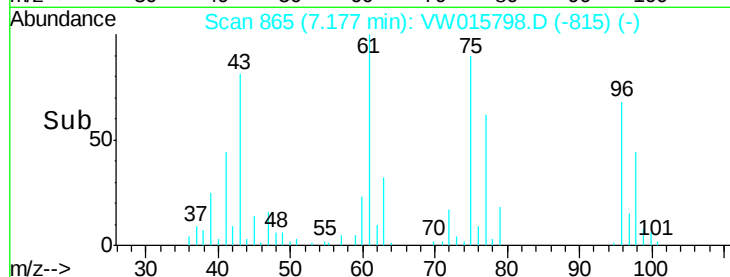
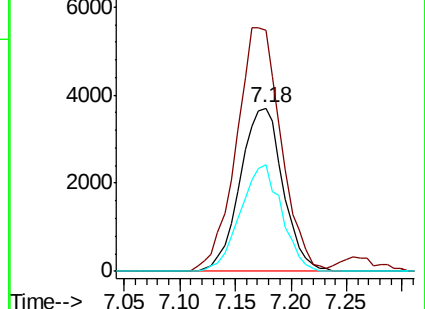
98 62.8 0.0 129.0



Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#28

Bromochloromethane

Concen: 4.290 ug/l

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

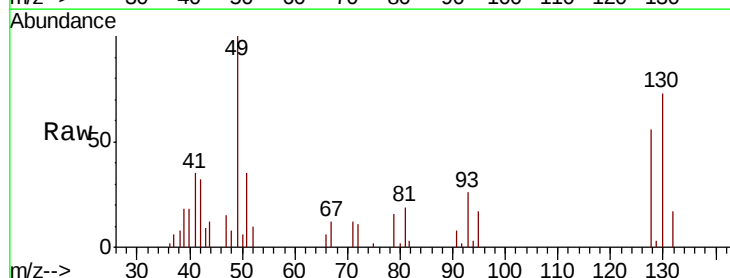
Tgt Ion: 49 Resp: 6613

Ion Ratio Lower Upper

49 100

129 1.9 0.0 2.6

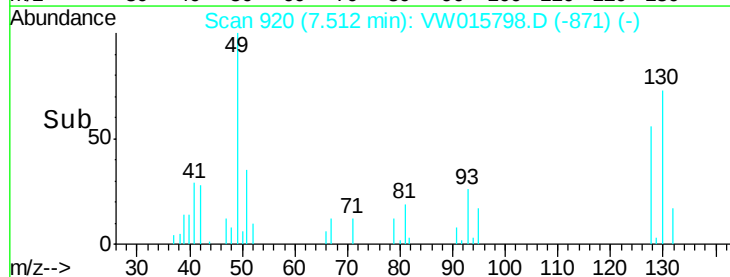
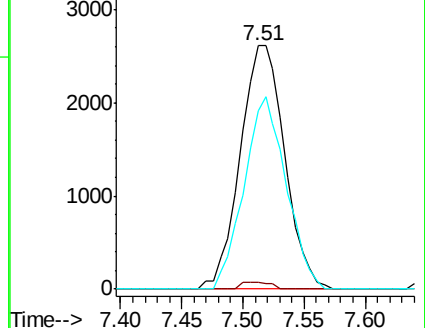
130 74.6 59.5 89.3



Abundance Ion 48.90 (48.60 to 49.60): VW

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

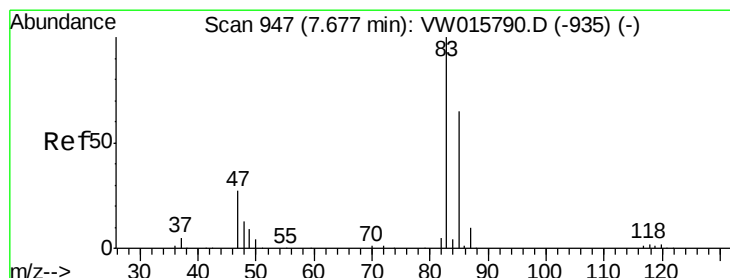
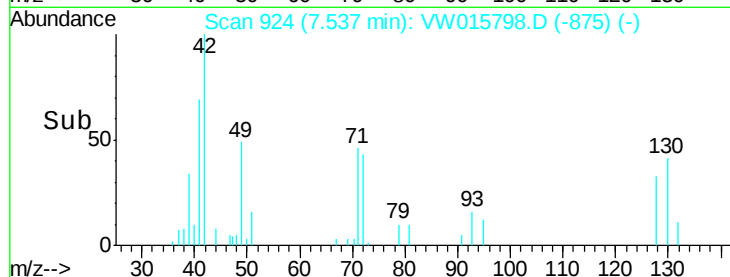
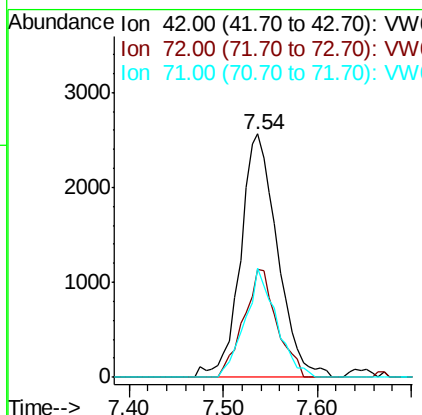
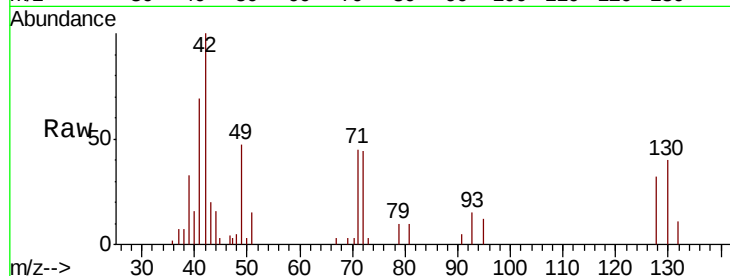




#29
Tetrahydrofuran
Concen: 21.553 ug/l
RT: 7.54 min Scan# 924
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

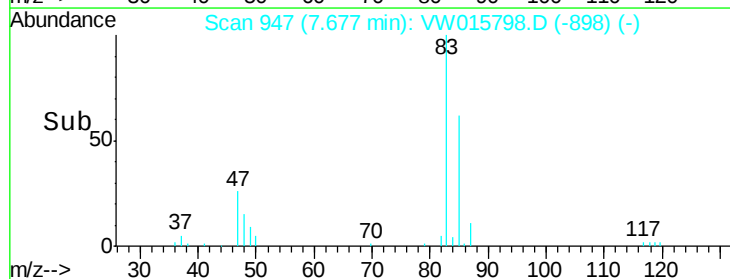
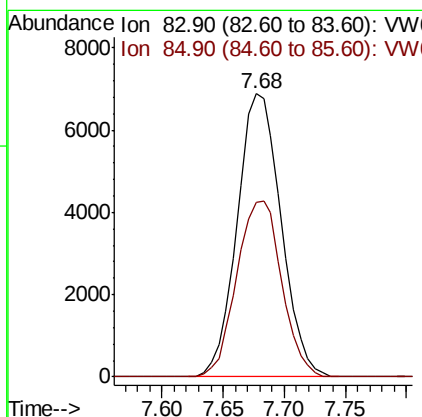
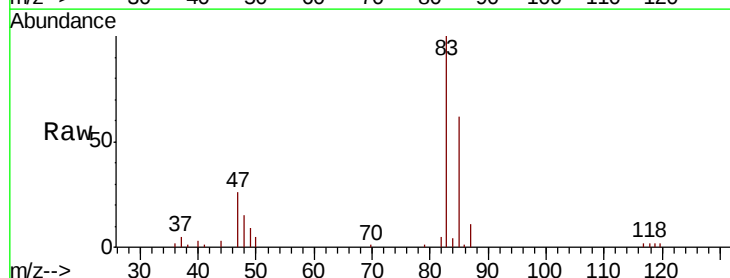
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

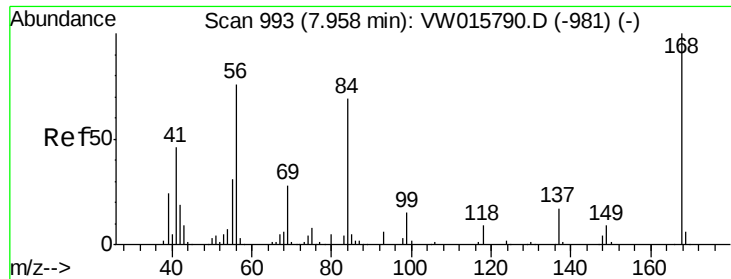
Tot Ion: 42 Resp: 7022
Ion Ratio Lower Upper
42 100
72 39.9 34.6 51.8
71 38.3 32.8 49.2



#30
Chloroform
Concen: 4.318 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion: 83 Resp: 17166
Ion Ratio Lower Upper
83 100
85 61.6 51.6 77.4

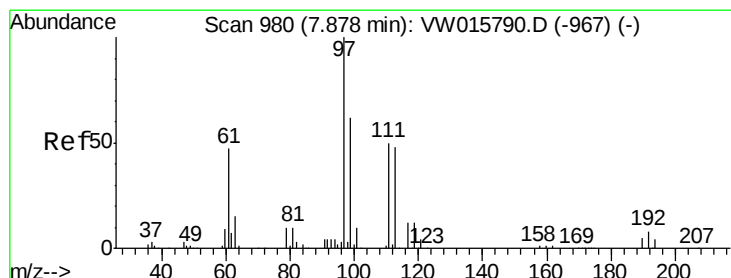
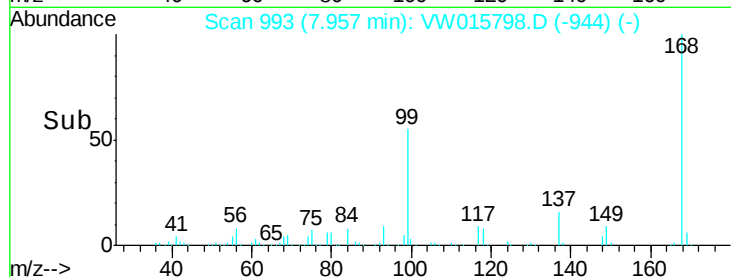
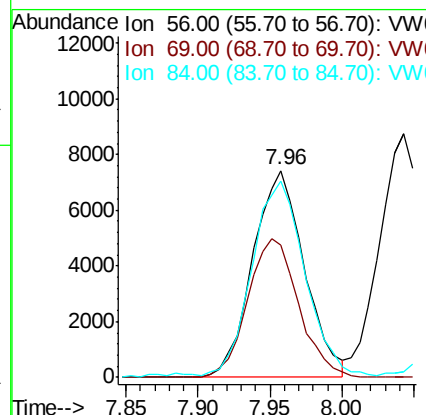
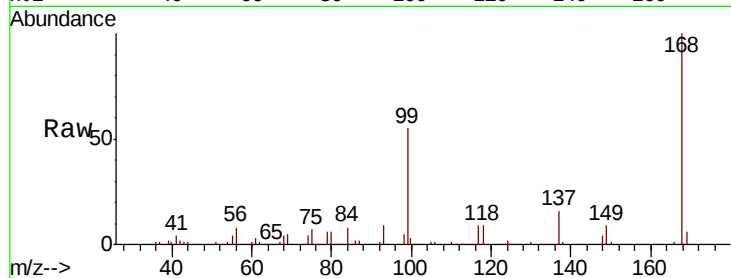




#31
Cyclohexane
Concen: 5.038 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

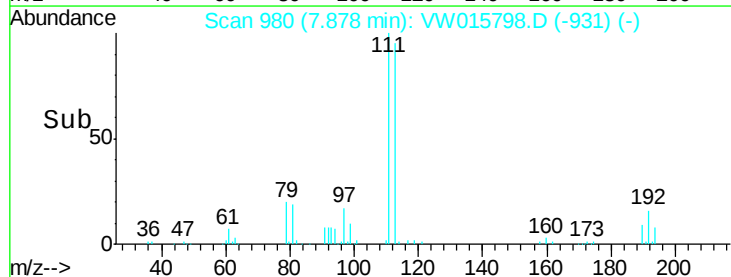
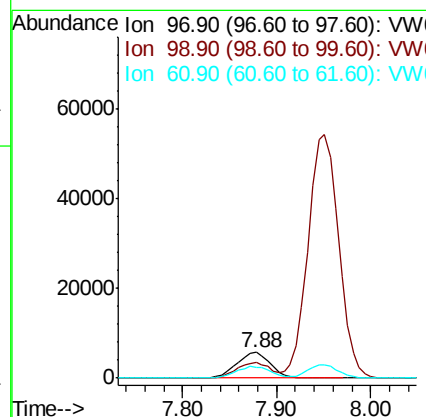
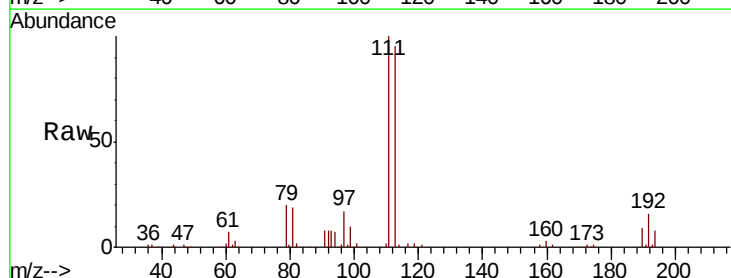
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

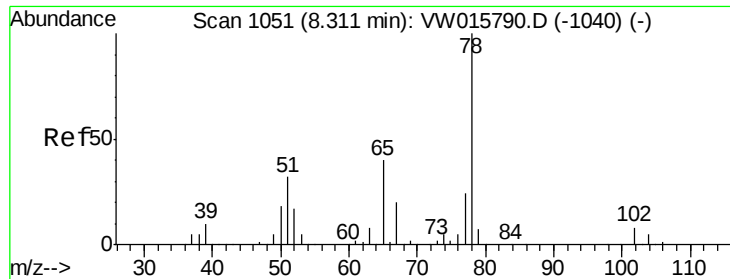
Tot Ion: 56 Resp: 18439
Ion Ratio Lower Upper
56 100
69 64.1 28.9 43.3#
84 93.4 72.2 108.4



#32
1,1,1-Trichloroethane
Concen: 4.283 ug/l
RT: 7.88 min Scan# 980
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion: 97 Resp: 14277
Ion Ratio Lower Upper
97 100
99 59.6 51.0 76.4
61 48.0 38.6 57.8

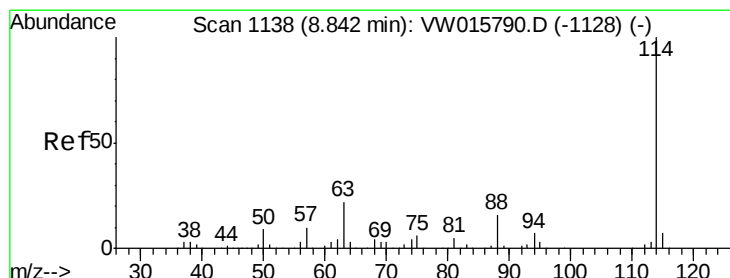
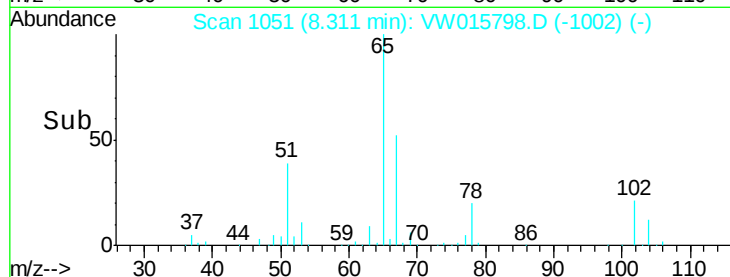
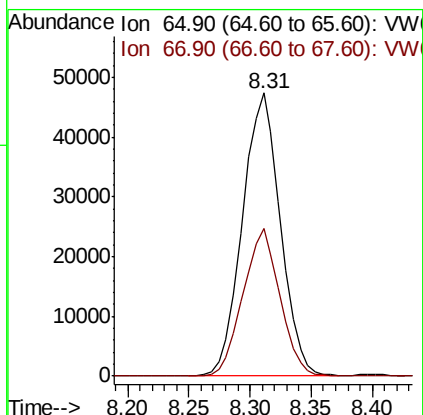
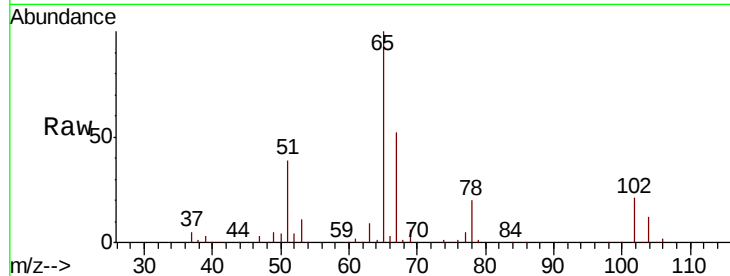




#33
 1,2-Dichloroethane-d4
 Concen: 48.328 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

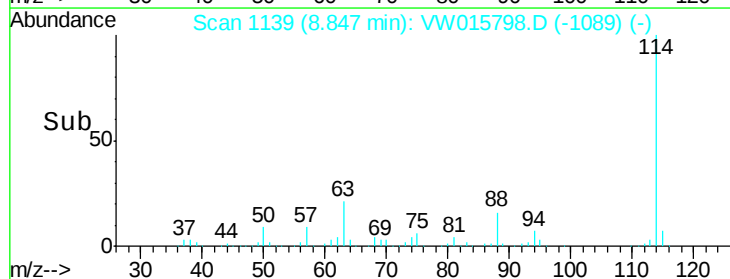
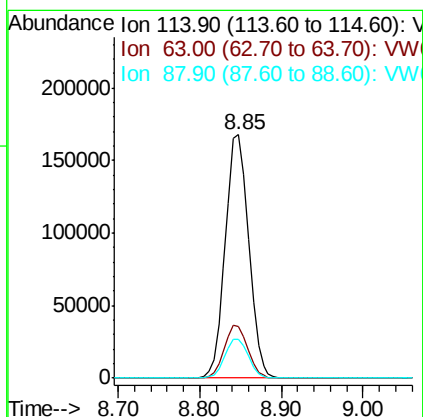
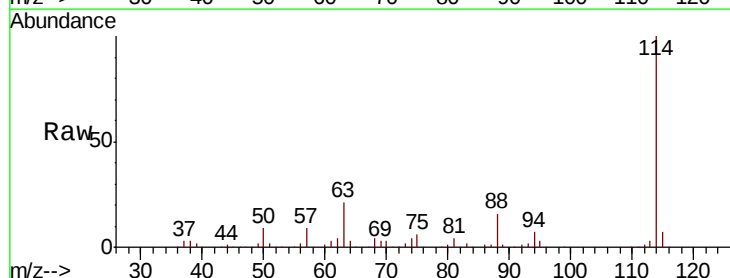
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

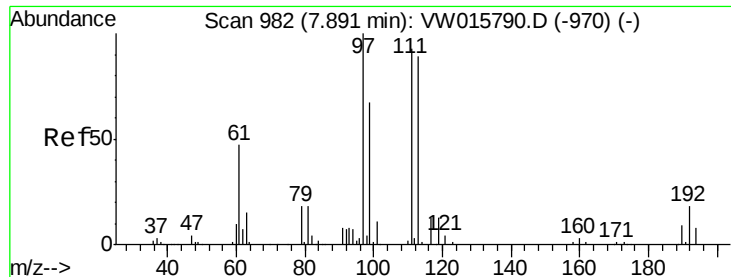
Tot Ion: 65 Resp: 102161
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 114 Resp: 332988
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 44.4
 88 16.1 0.0 32.6

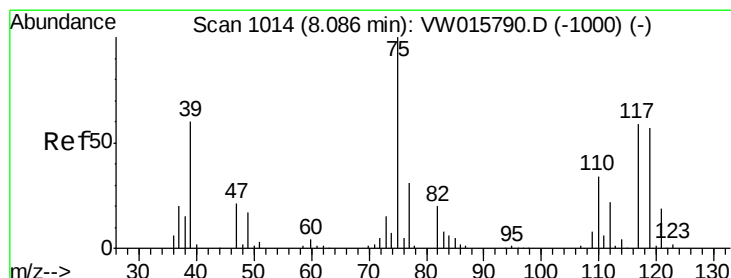
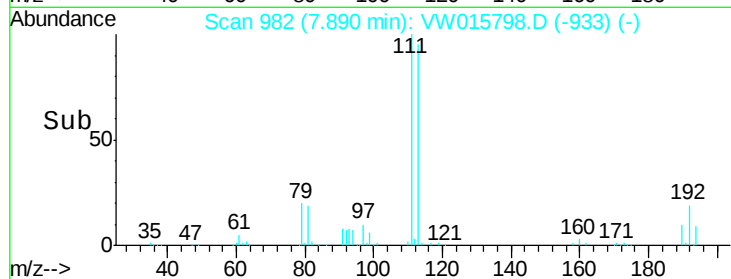
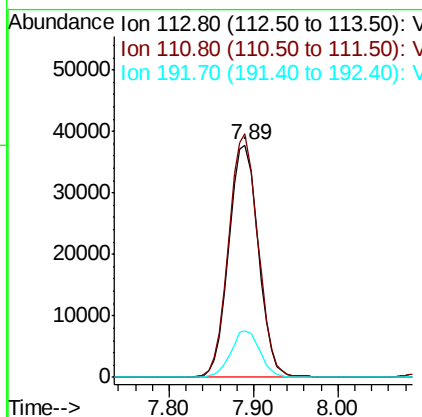
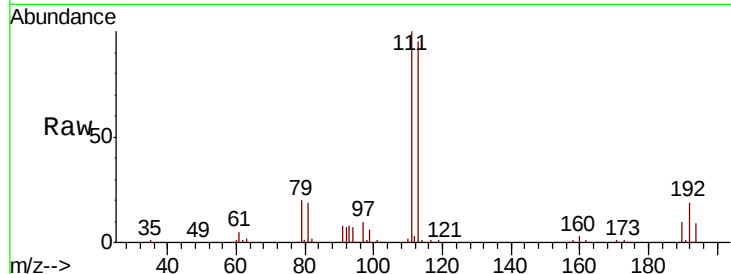




#35
 Dibromofluoromethane
 Concen: 46.140 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

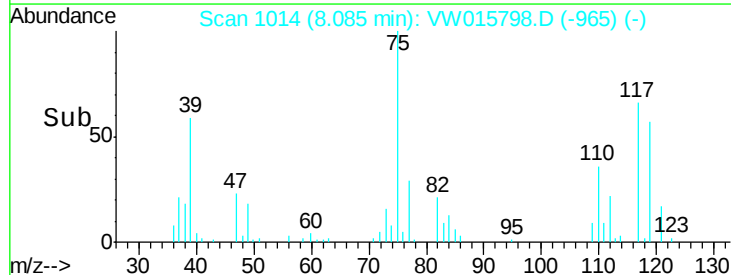
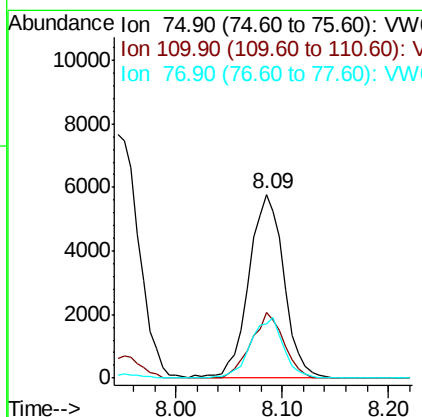
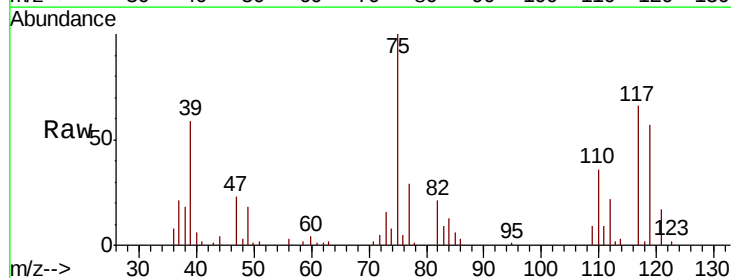
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

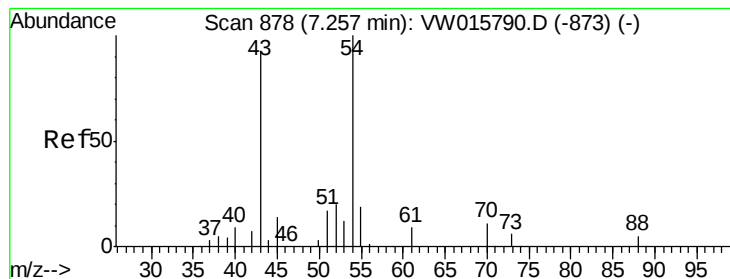
Tot Ion:113 Resp: 89636
 Ion Ratio Lower Upper
 113 100
 111 104.2 82.8 124.2
 192 19.7 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 4.087 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 75 Resp: 13414
 Ion Ratio Lower Upper
 75 100
 110 32.9 16.8 50.3
 77 30.6 24.7 37.1





#37

Ethyl Acetate

Concen: 4.265 ug/l

RT: 7.26 min Scan# 879

Delta R.T. 0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

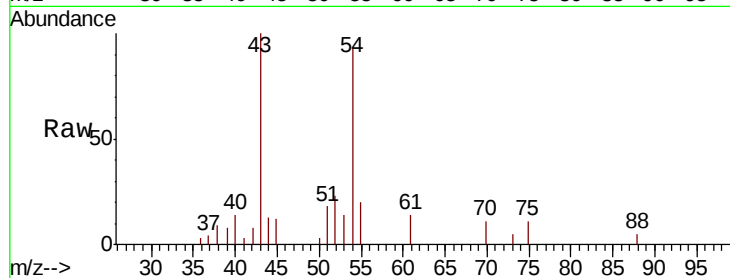
Tot Ion: 43 Resp: 5440

Ion Ratio Lower Upper

43 100

61 13.8 10.4 15.6

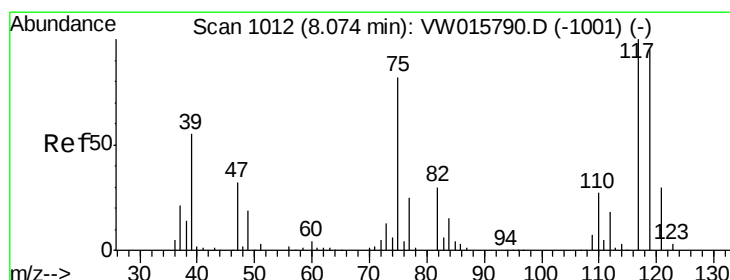
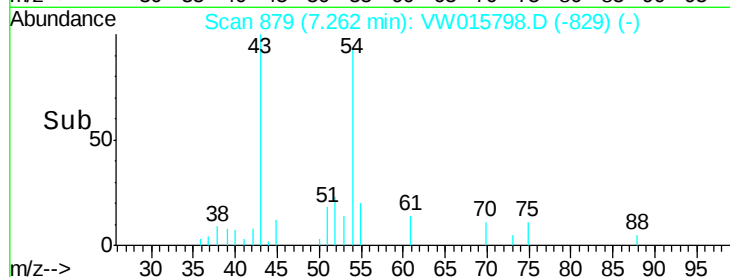
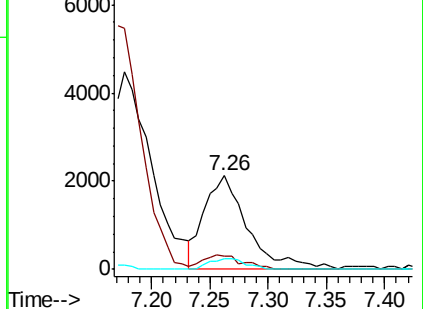
70 9.6 8.4 12.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 4.076 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. -0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

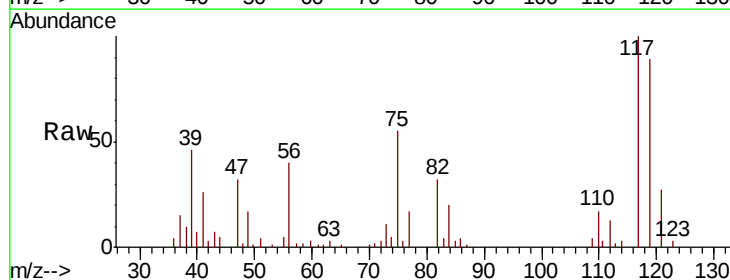
Tgt Ion: 117 Resp: 12947

Ion Ratio Lower Upper

117 100

119 88.9 76.3 114.5

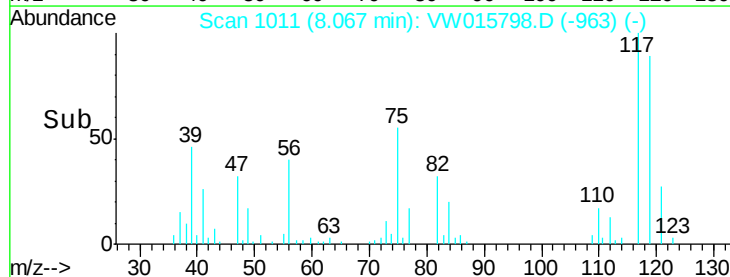
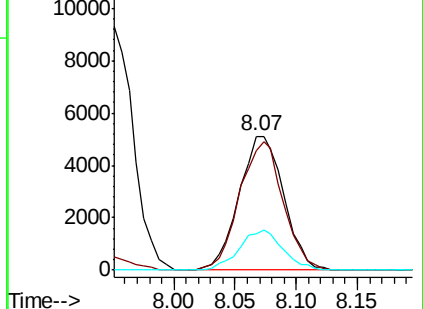
121 26.9 24.0 36.0

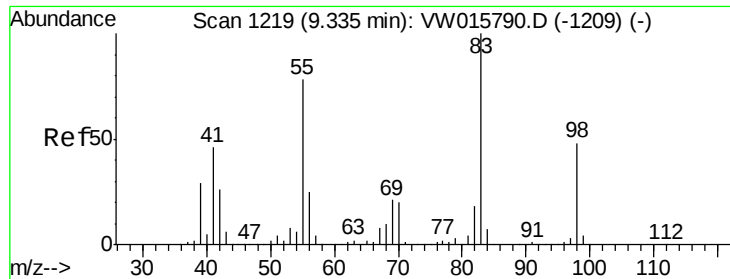


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

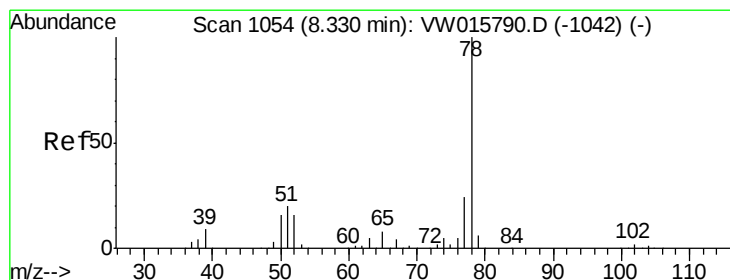
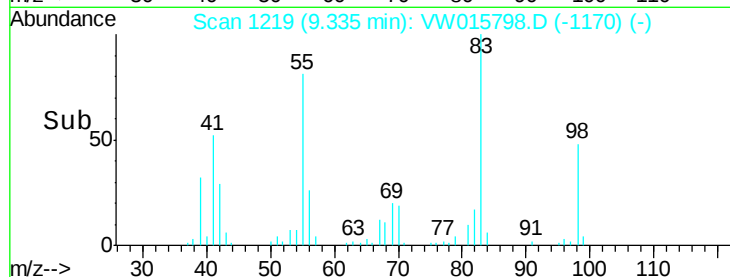
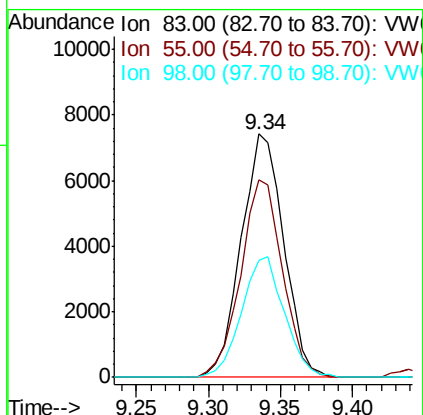
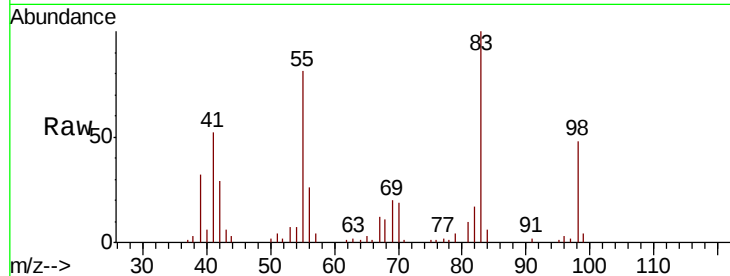




#39
Methvlcvclohexane
Concen: 3.918 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

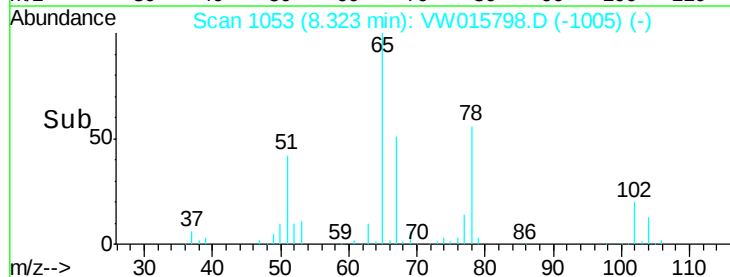
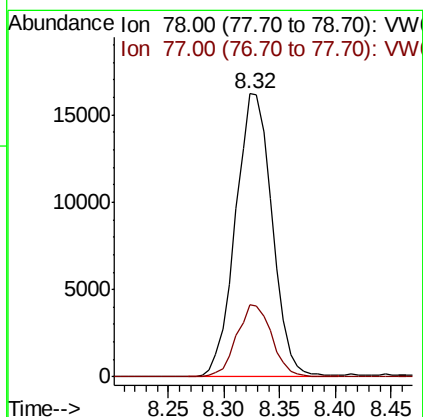
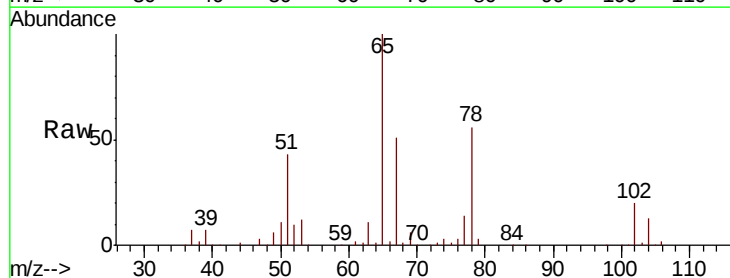
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 83 Resp: 15177
Ion Ratio Lower Upper
83 100
55 81.2 62.6 94.0
98 47.8 38.6 58.0



#40
Benzene
Concen: 4.123 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion: 78 Resp: 37072
Ion Ratio Lower Upper
78 100
77 25.6 19.0 28.6

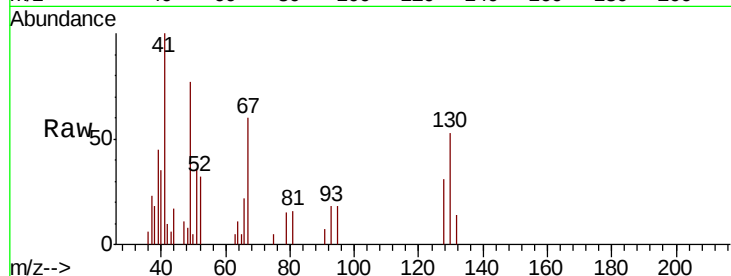




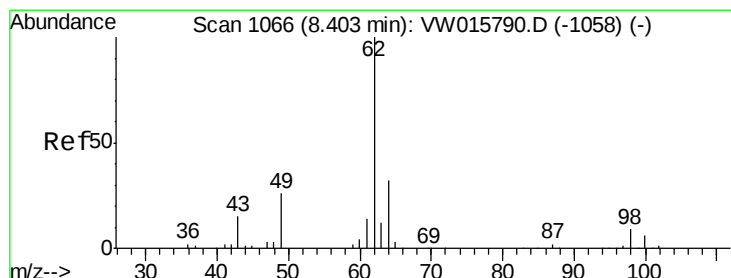
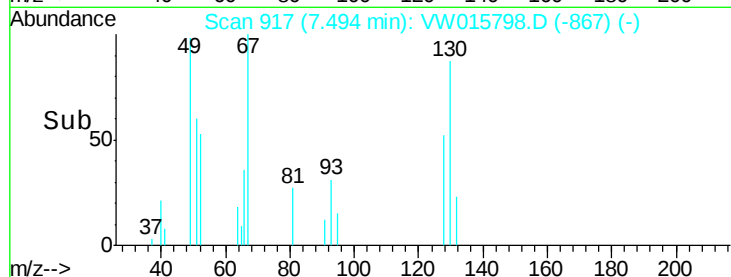
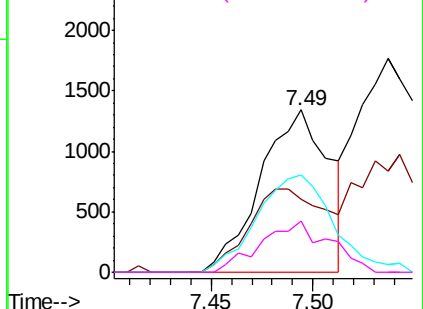
#41
Methacrylonitrile
Concen: 4.338 ug/l
RT: 7.49 min Scan# 917
Delta R.T. 0.01 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	41	Resp:	3141
Ion	Ratio	Lower	Upper
41	100		
39	57.9	44.6	66.8
67	66.9	56.4	84.6
52	31.1	25.4	38.2

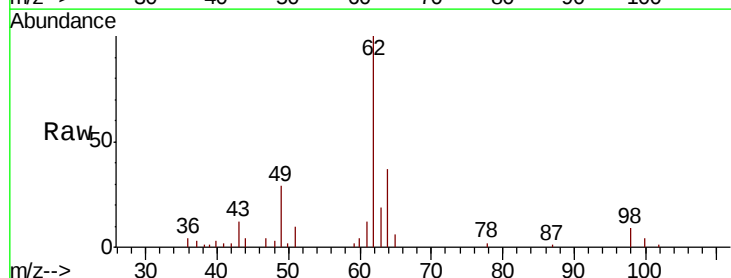


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

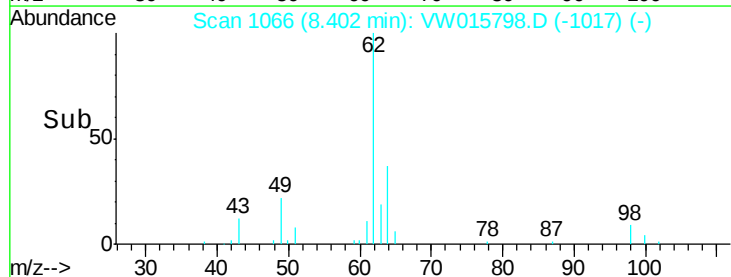
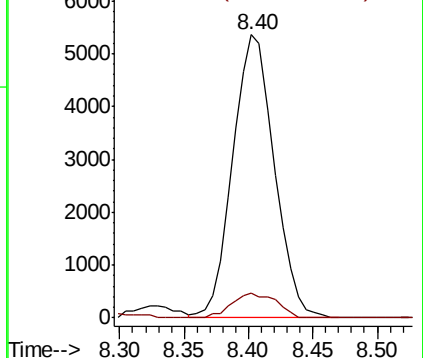


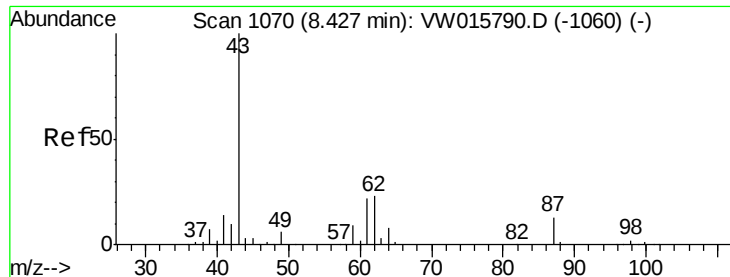
#42
1,2-Dichloroethane
Concen: 4.287 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion:	62	Resp:	11998
Ion	Ratio	Lower	Upper
62	100		
98	9.3	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: 4.167 ug/l

RT: 8.43 min Scan# 1071

Delta R.T. 0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

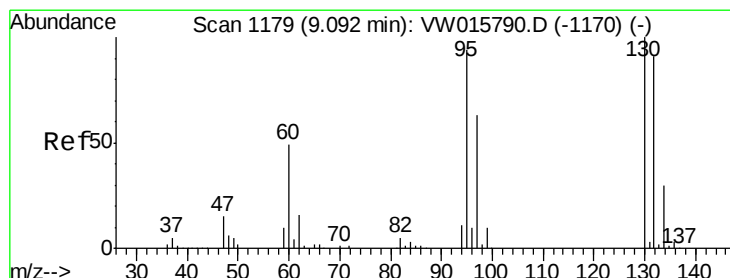
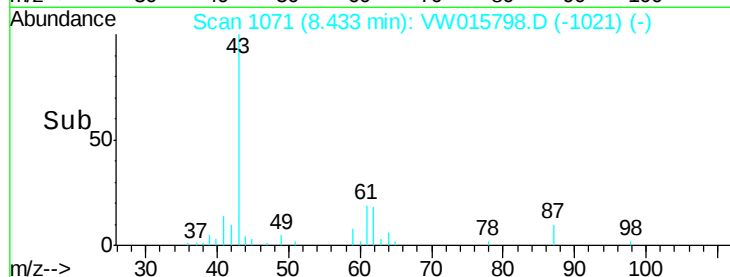
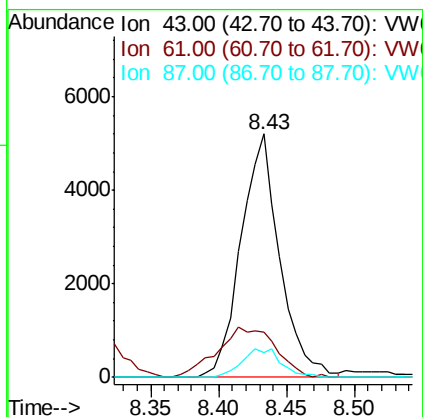
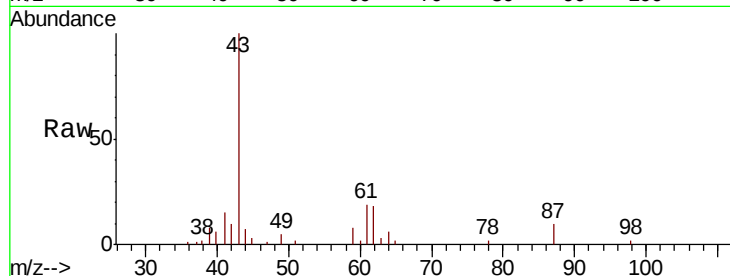
Tot Ion: 43 Resp: 10375

Ion Ratio Lower Upper

43 100

61 30.9 24.8 37.2

87 11.9 10.4 15.6



#44

Trichloroethene

Concen: 4.132 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW015798.D

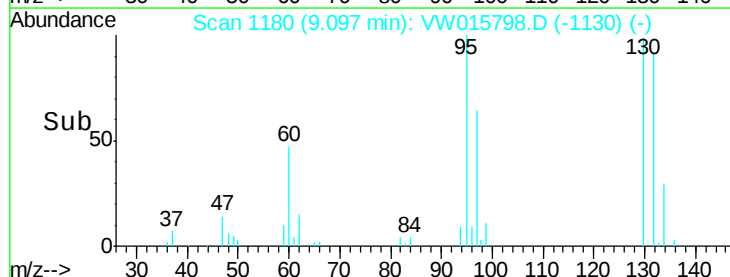
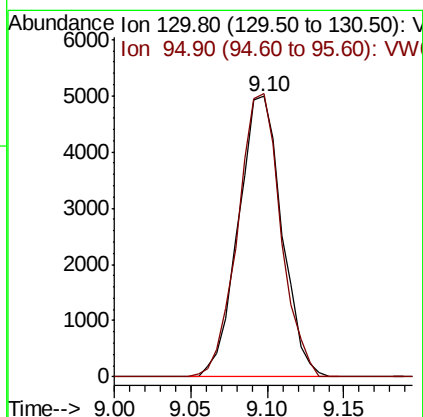
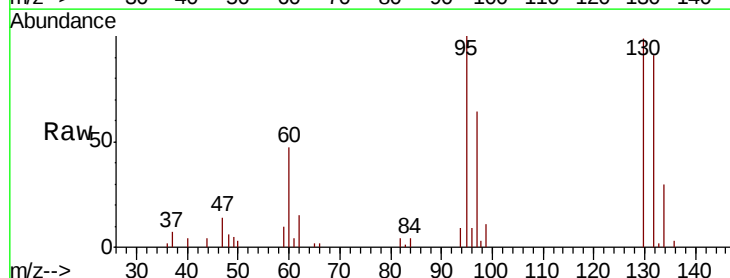
Acq: 07 Jul 2020 18:28

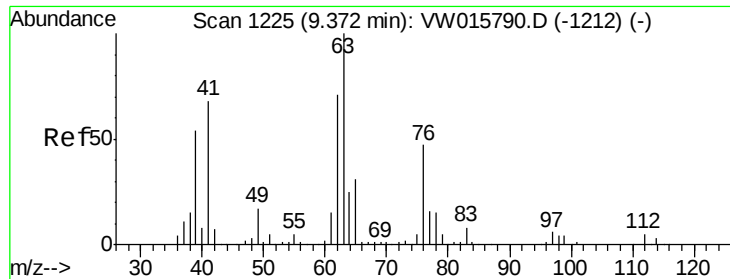
Tgt Ion: 130 Resp: 9828

Ion Ratio Lower Upper

130 100

95 101.0 0.0 188.6





#45

1,2-Dichloropropane

Concen: 4.176 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

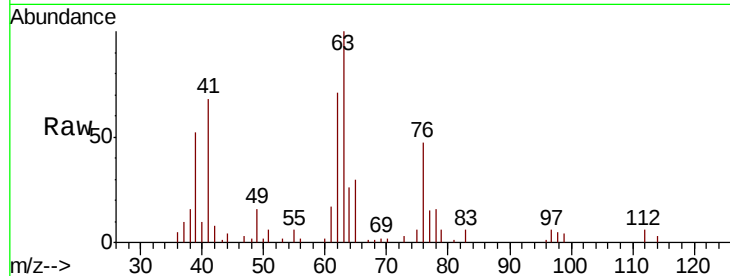
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 63 Resp: 9229

Ion Ratio Lower Upper

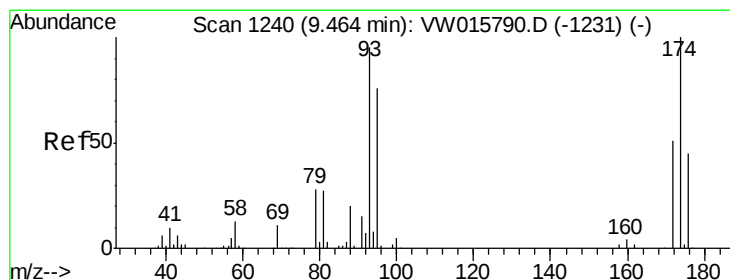
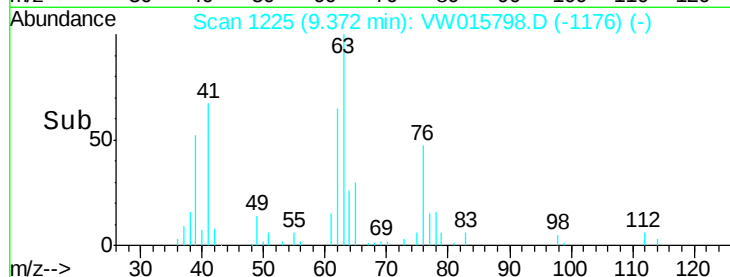
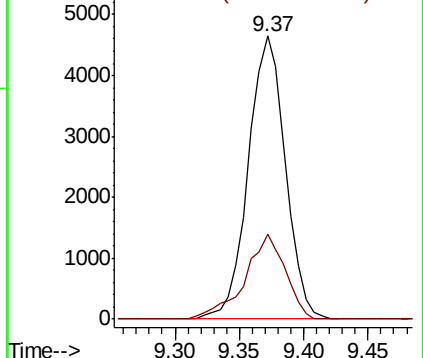
63 100

65 29.9 24.5 36.7



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 4.269 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

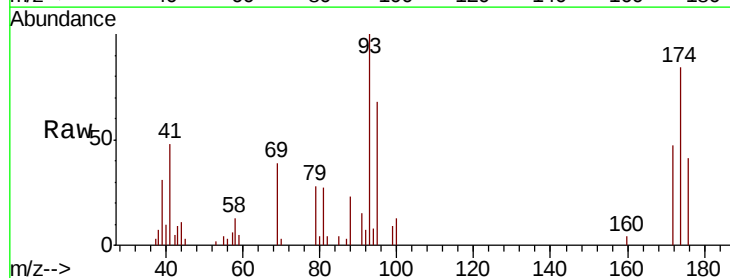
Tgt Ion: 93 Resp: 4858

Ion Ratio Lower Upper

93 100

95 79.2 66.0 99.0

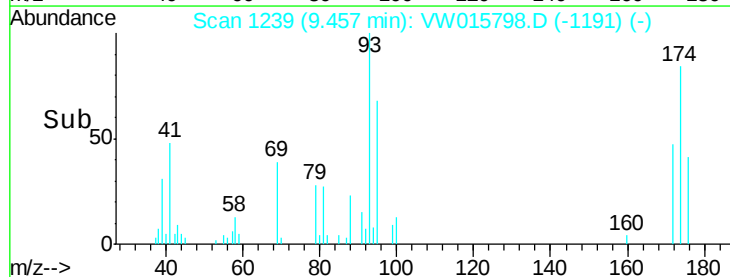
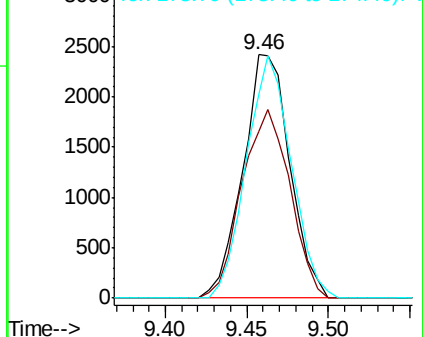
174 95.2 78.7 118.1



Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 4.012 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

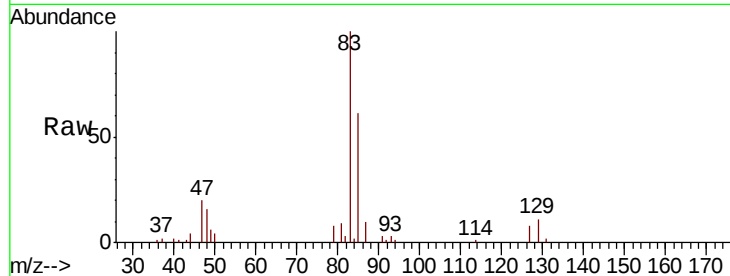
Tot Ion: 83 Resp: 11809

Ion Ratio Lower Upper

83 100

85 61.2 50.6 76.0

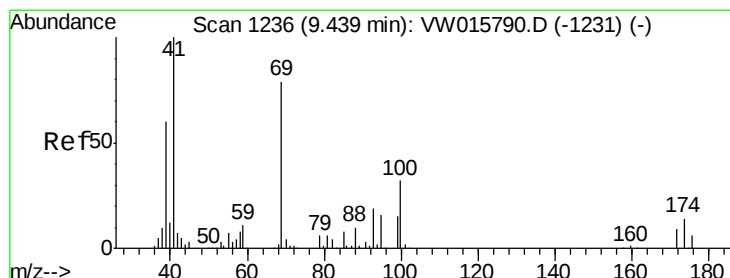
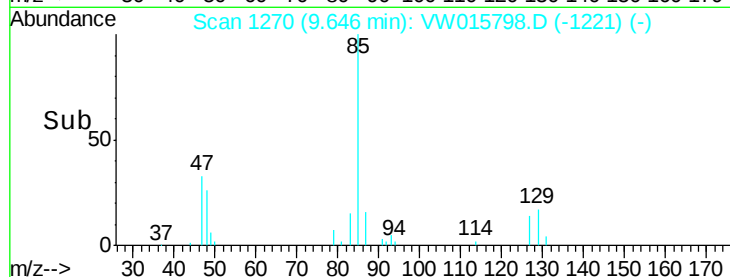
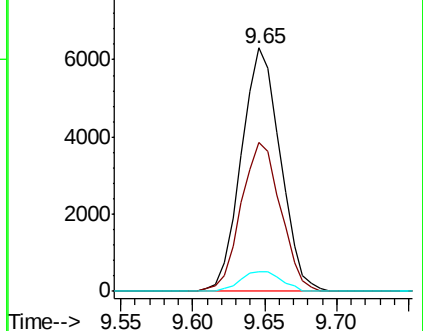
127 8.3 6.2 9.2



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): VW



#48

Methyl methacrylate

Concen: 3.884 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

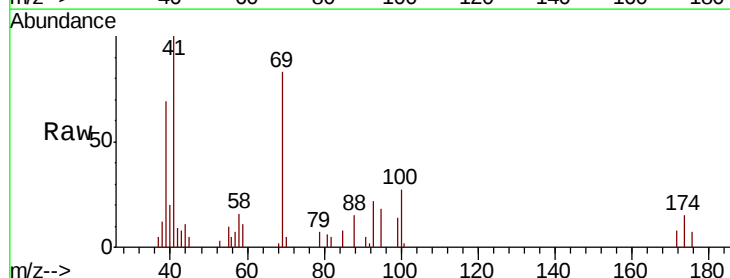
Tgt Ion: 41 Resp: 4432

Ion Ratio Lower Upper

41 100

69 87.1 67.1 100.7

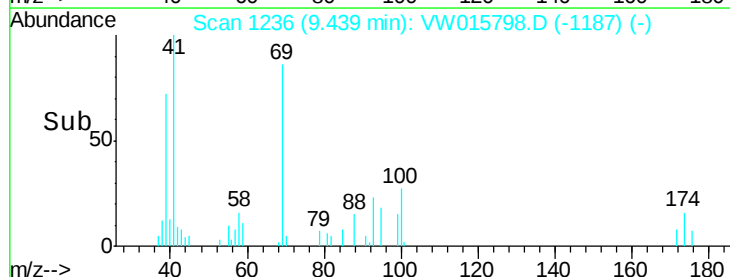
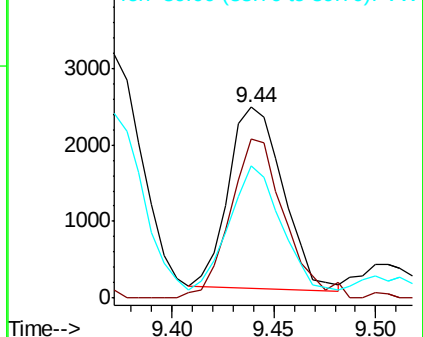
39 74.1 49.9 74.9

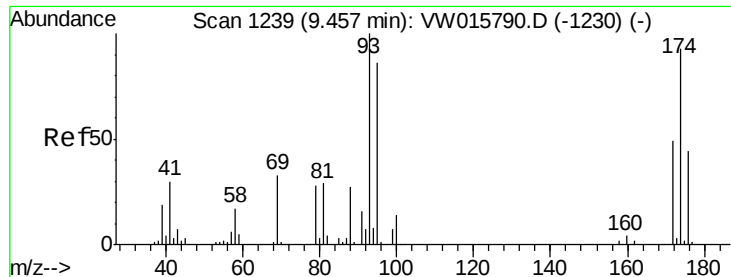


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

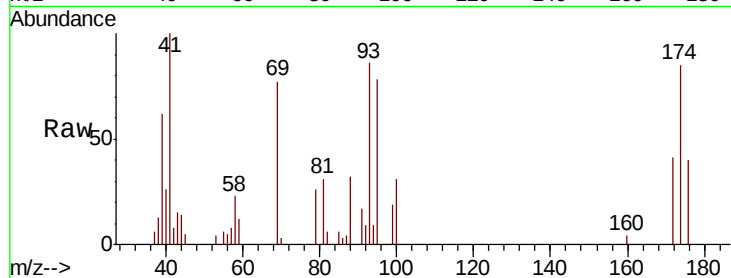




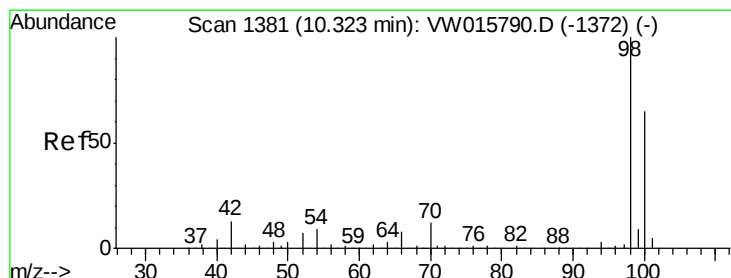
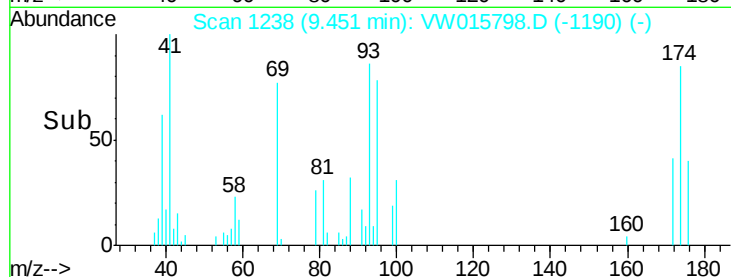
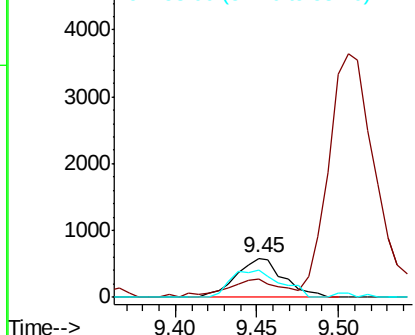
#49
1,4-Dioxane
Concen: 83.739 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 88 Resp: 1178
Ion Ratio Lower Upper
88 100
43 56.0 28.1 42.1#
58 73.4 59.3 88.9

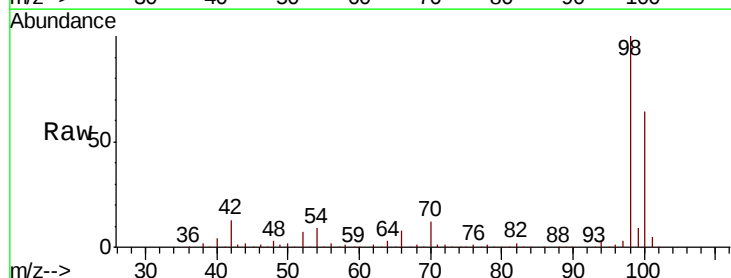


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

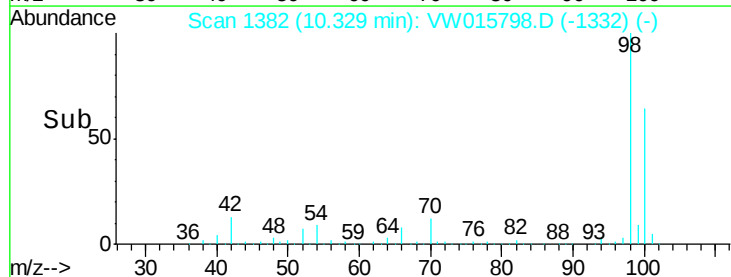
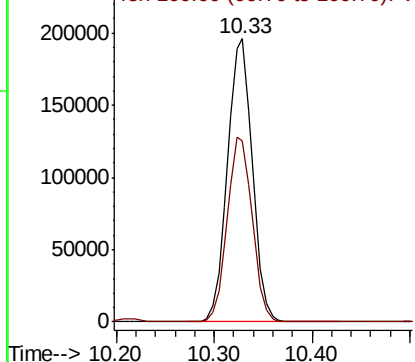


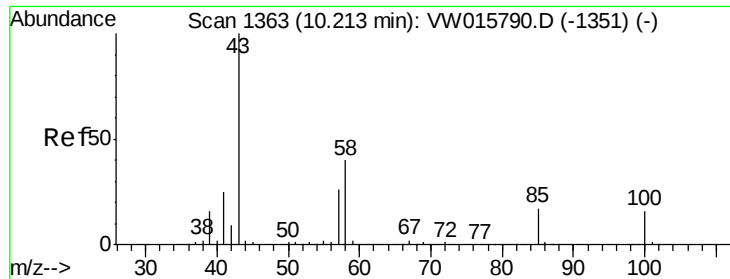
#50
Toluene-d8
Concen: 46.188 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion: 98 Resp: 344664
Ion Ratio Lower Upper
98 100
100 65.8 52.6 79.0



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

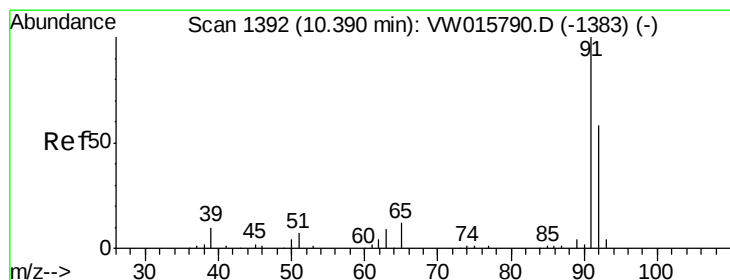
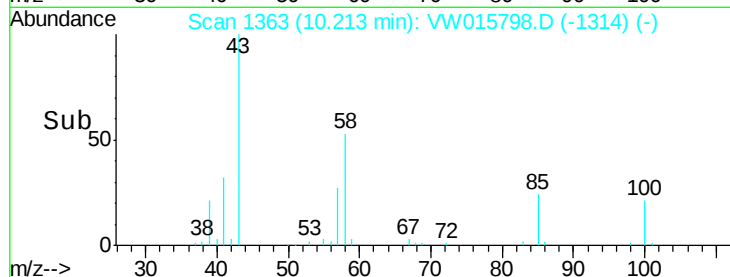
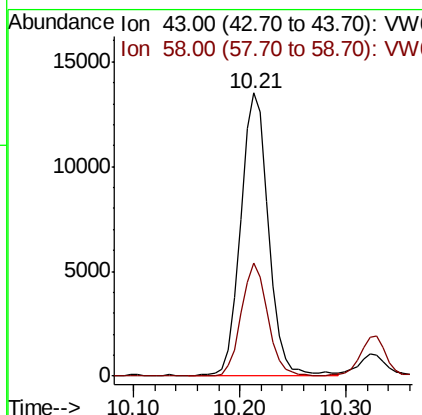
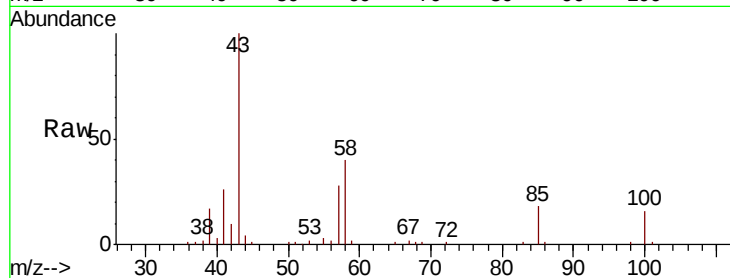




#51
4-Methyl-2-Pentanone
Concen: 20.498 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

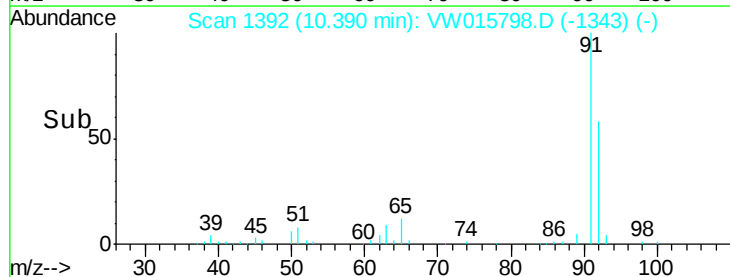
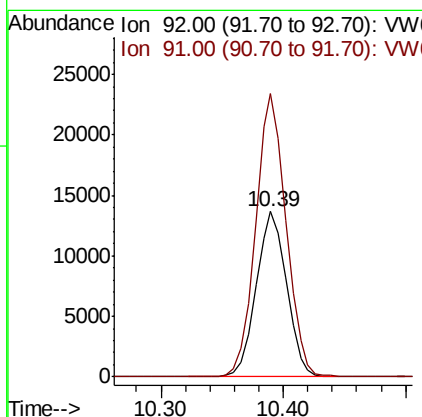
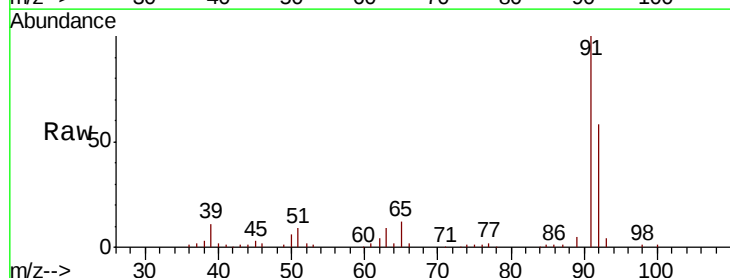
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

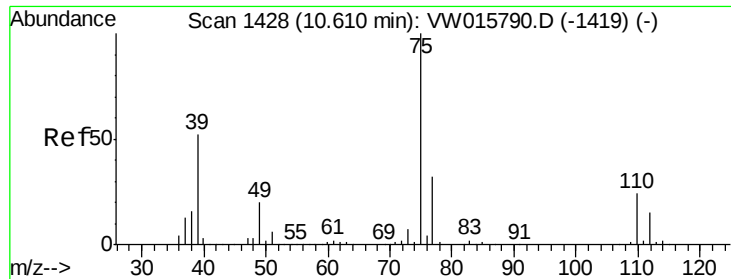
Tot Ion: 43 Resp: 24902
Ion Ratio Lower Upper
43 100
58 37.9 30.9 46.3



#52
Toluene
Concen: 4.100 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion: 92 Resp: 23725
Ion Ratio Lower Upper
92 100
91 170.7 137.1 205.7

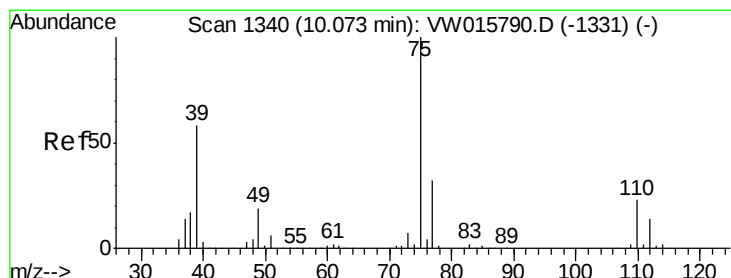
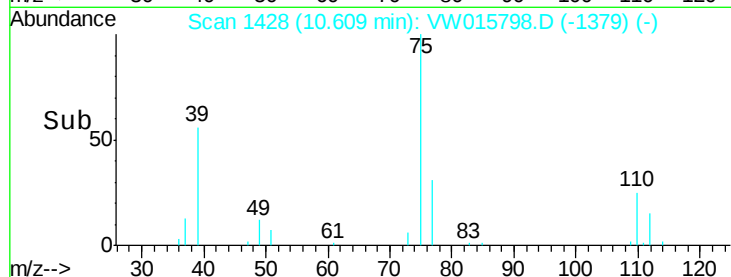
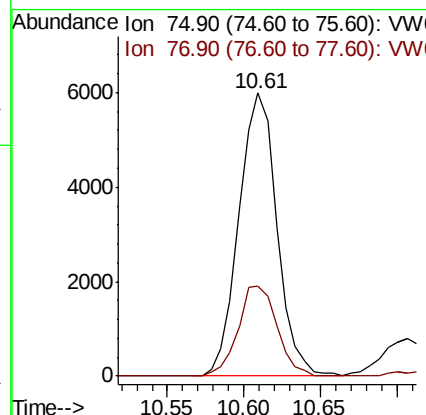
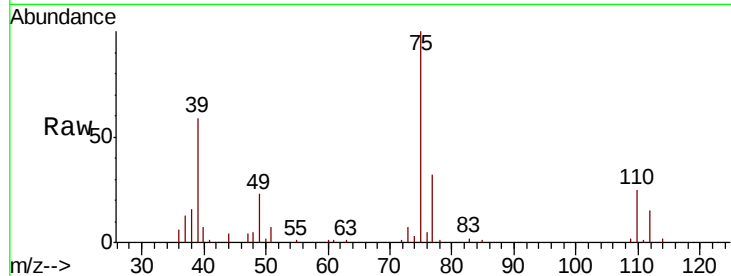




#53
 t-1,3-Dichloropropene
 Concen: 3.668 ug/l
 RT: 10.61 min Scan# 1428
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

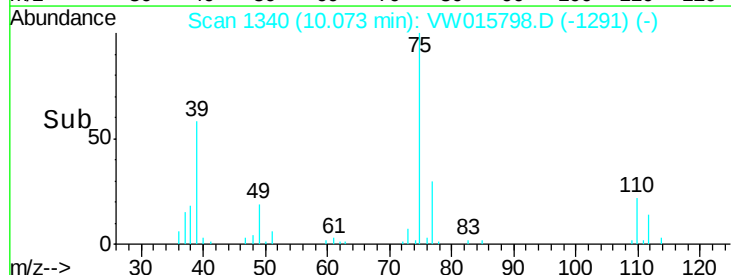
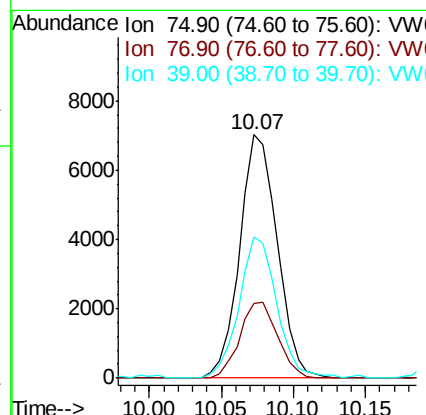
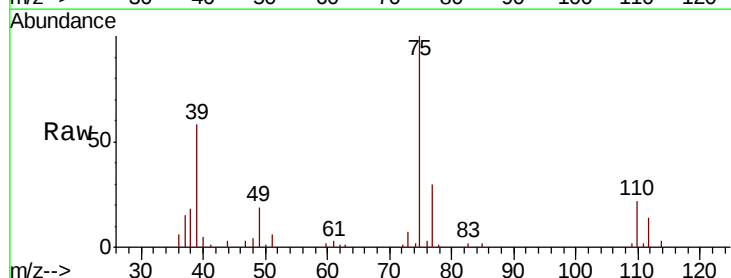
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

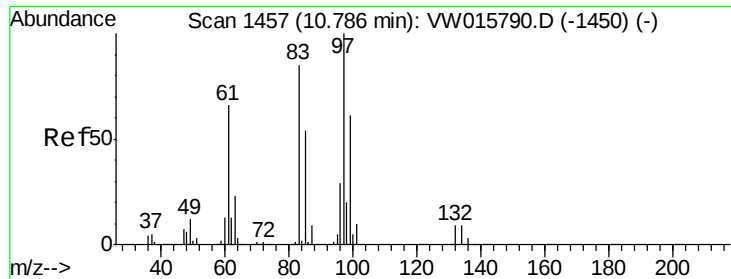
Tot Ion: 75 Resp: 10358
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.4 38.0



#54
 cis-1,3-Dichloropropene
 Concen: 3.765 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 75 Resp: 12717
 Ion Ratio Lower Upper
 75 100
 77 30.4 25.2 37.8
 39 57.8 46.0 69.0

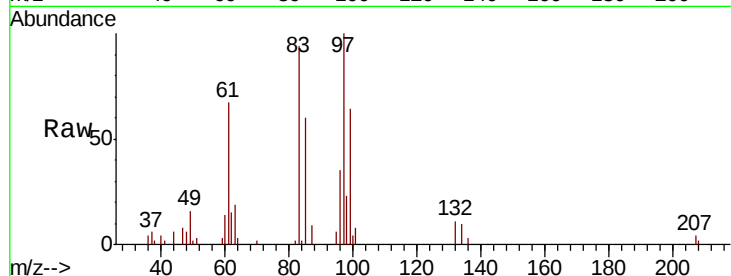




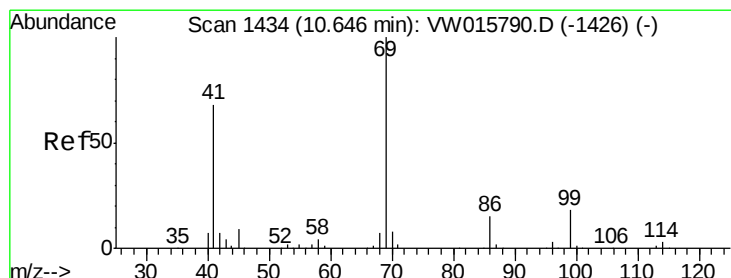
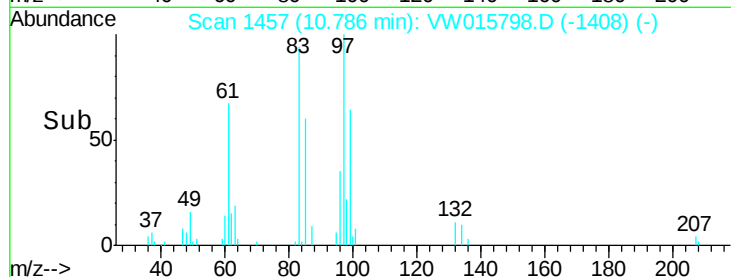
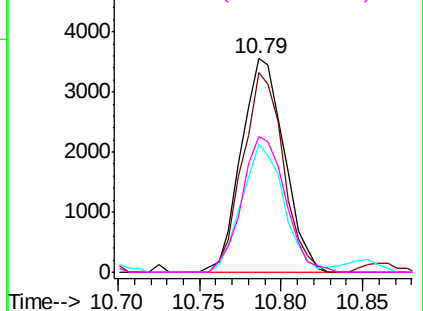
#55
 1,1,2-Trichloroethane
 Concen: 4.135 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 97 Resp: 6524
 Ion Ratio Lower Upper
 97 100
 83 93.8 68.2 102.4
 85 59.9 43.4 65.0
 99 63.6 48.6 72.8

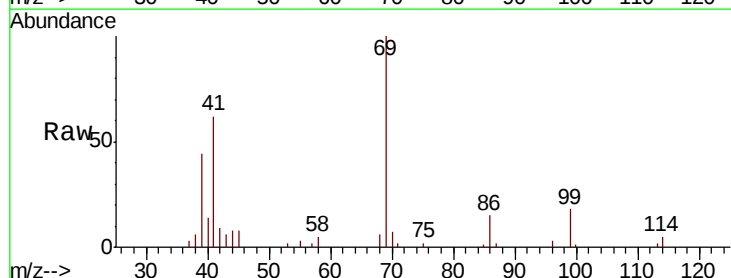


Abundance Ion 96.90 (96.60 to 97.60): VW
 Ion 82.90 (82.60 to 83.60): VW
 Ion 84.90 (84.60 to 85.60): VW
 Ion 98.90 (98.60 to 99.60): VW

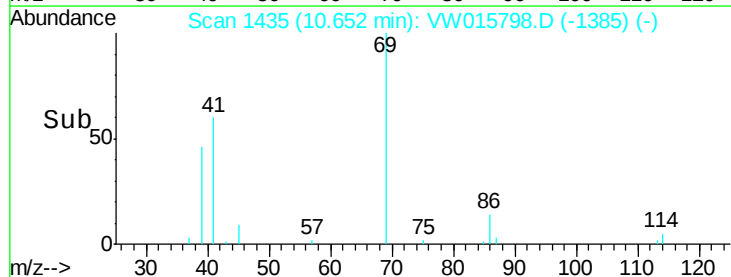
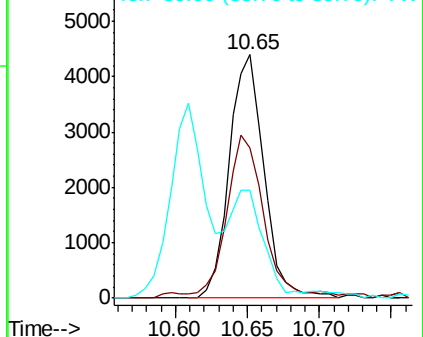


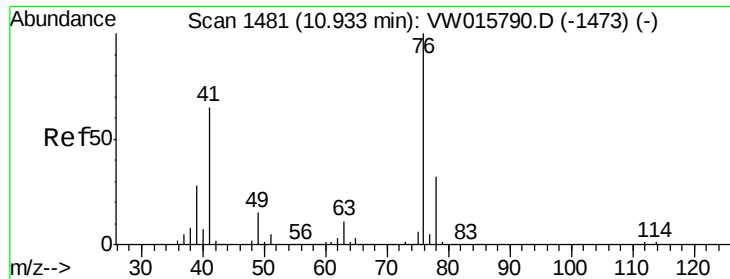
#56
 Ethyl methacrylate
 Concen: 3.821 ug/l
 RT: 10.65 min Scan# 1435
 Delta R.T. 0.01 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 69 Resp: 7412
 Ion Ratio Lower Upper
 69 100
 41 73.3 55.0 82.6
 39 37.6 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

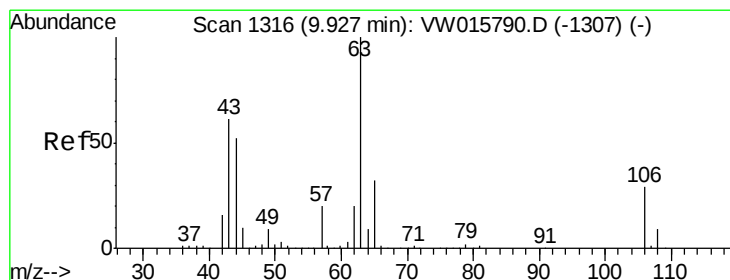
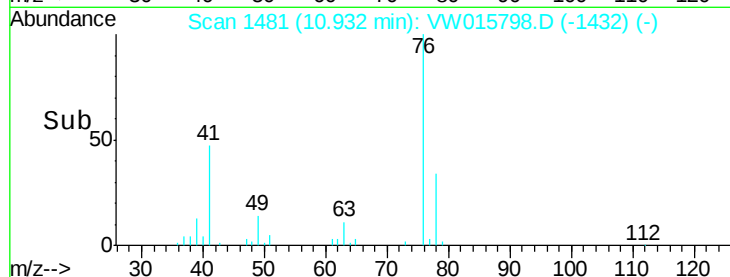
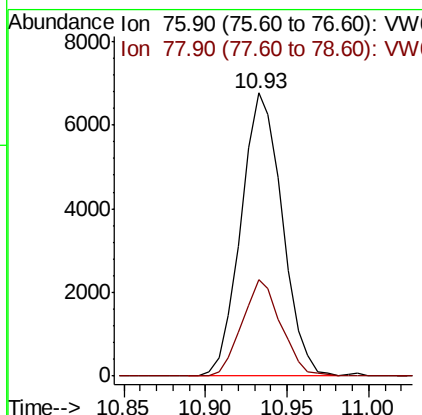
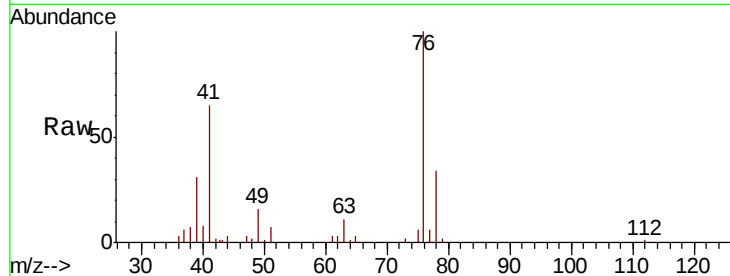




#57
 1,3-Dichloropropane
 Concen: 4.267 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

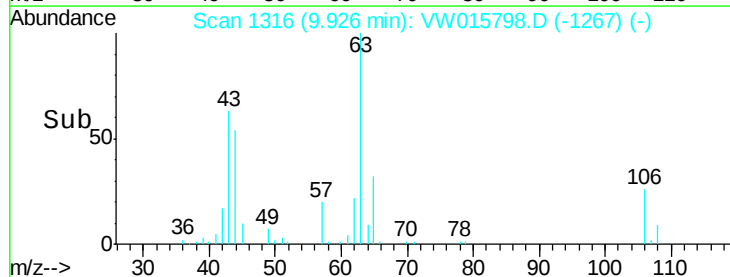
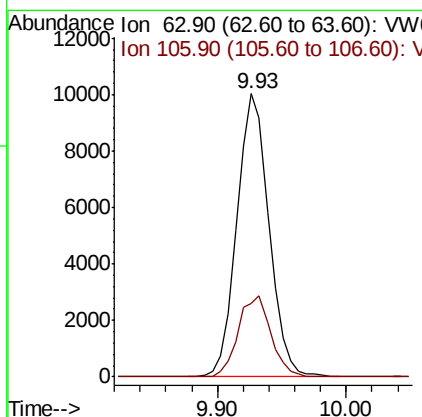
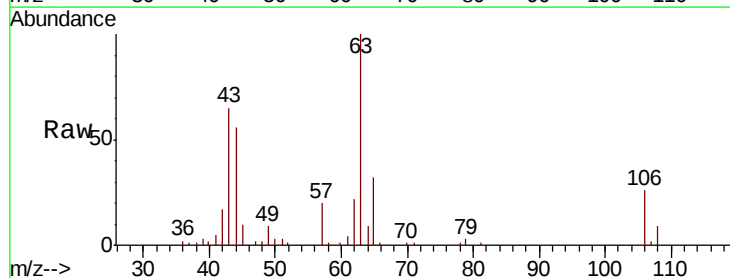
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

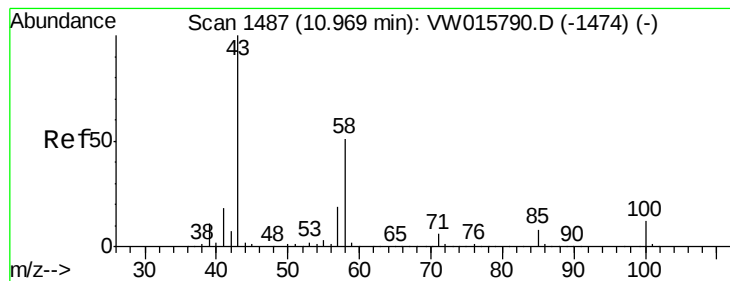
Tot Ion: 76 Resp: 11917
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.7 38.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.208 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 63 Resp: 17258
 Ion Ratio Lower Upper
 63 100
 106 28.8 23.1 34.7





#59

2-Hexanone

Concen: 19.842 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

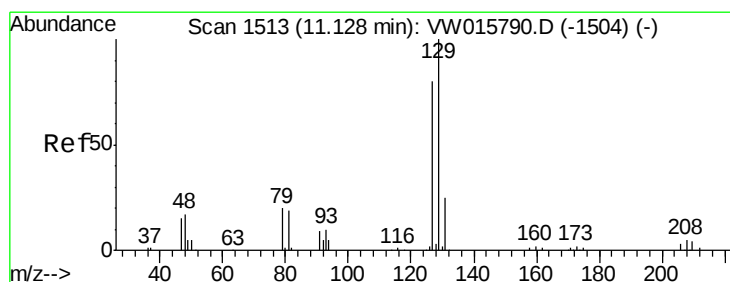
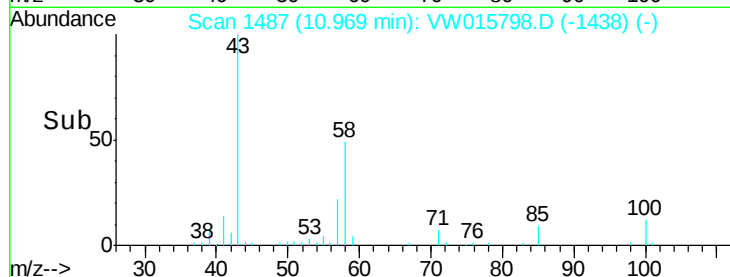
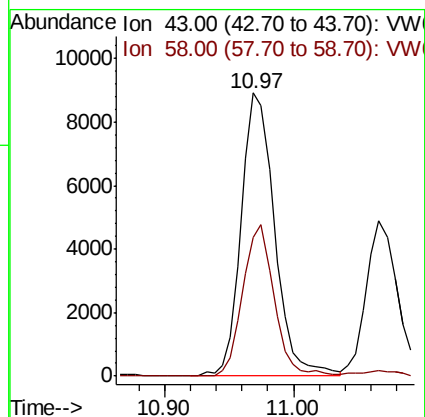
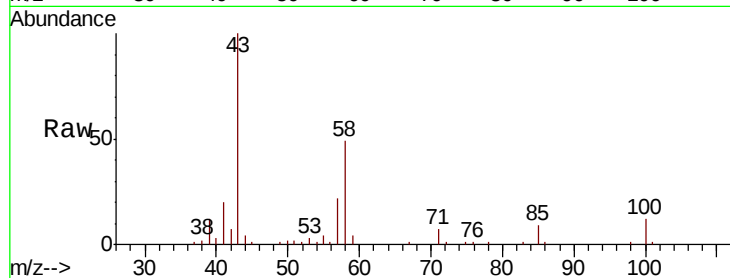
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 43 Resp: 16087

Ion Ratio Lower Upper

43 100

58 50.1 26.2 78.5



#60

Dibromochloromethane

Concen: 3.740 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW015798.D

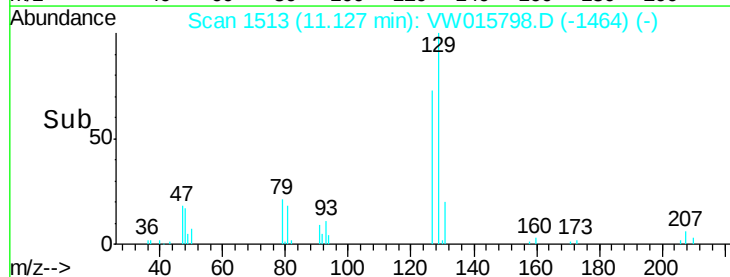
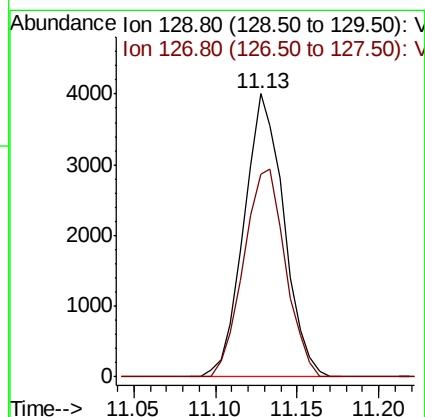
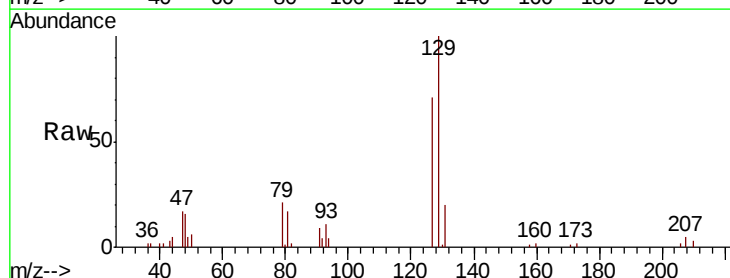
Acq: 07 Jul 2020 18:28

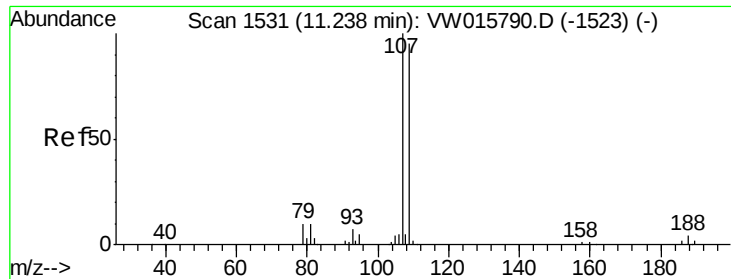
Tgt Ion: 129 Resp: 6815

Ion Ratio Lower Upper

129 100

127 76.8 39.4 118.1





#61

1,2-Dibromoethane

Concen: 4.089 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

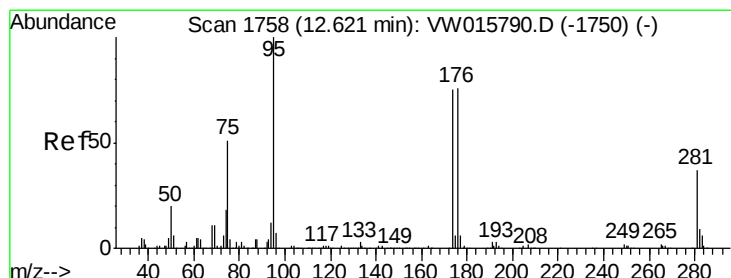
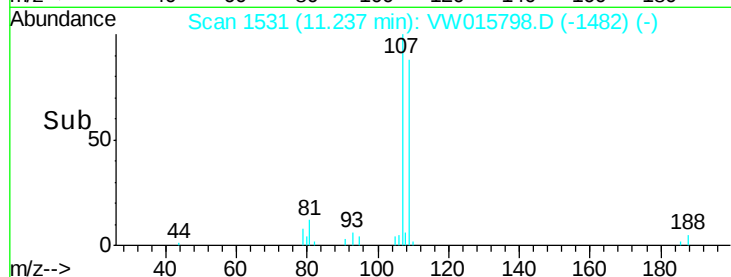
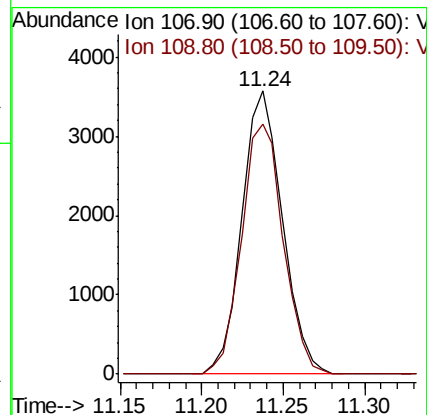
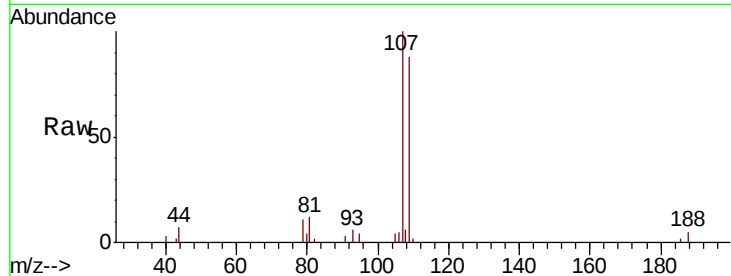
LOD-MDL-SOIL-01-QT3-2020

Tot Ion:107 Resp: 6173

Ion Ratio Lower Upper

107 100

109 91.0 77.0 115.6



#62

4-Bromofluorobenzene

Concen: 45.965 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

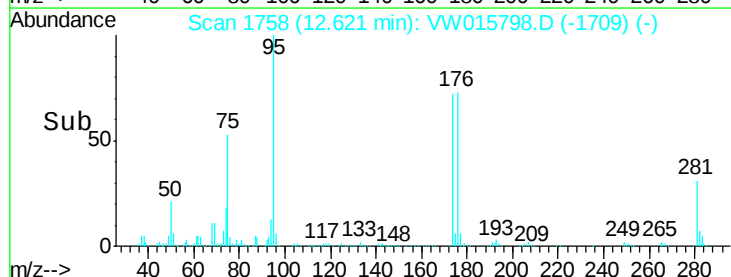
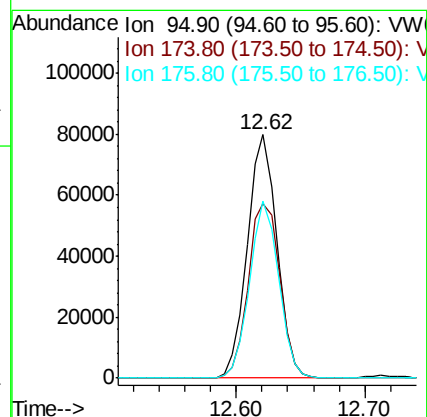
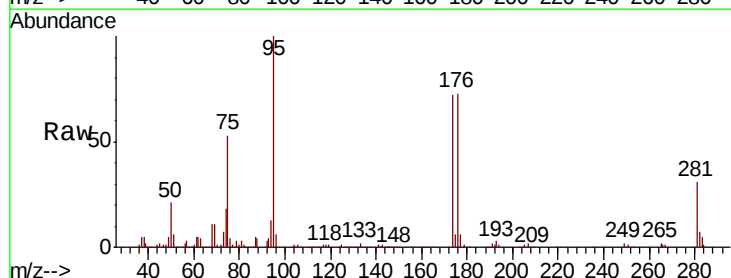
Tgt Ion: 95 Resp: 125862

Ion Ratio Lower Upper

95 100

174 77.0 0.0 150.2

176 71.9 0.0 148.4

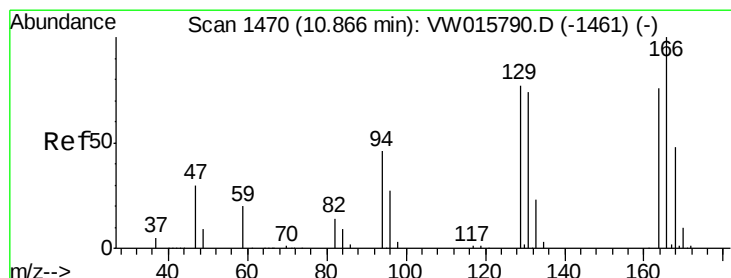
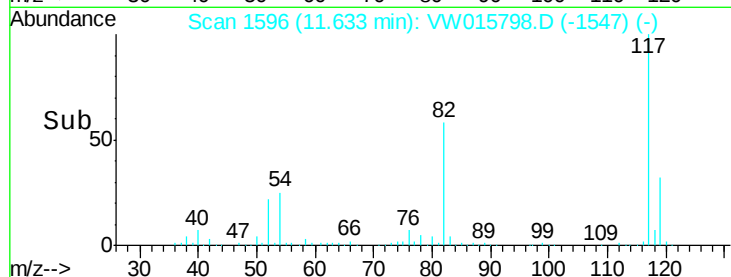
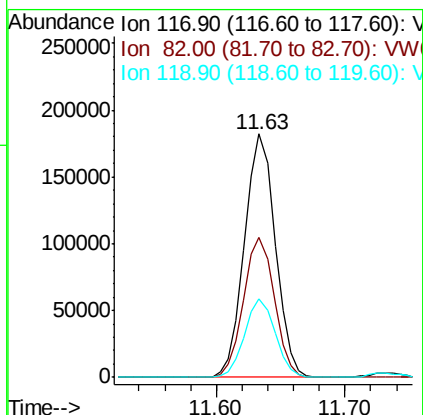
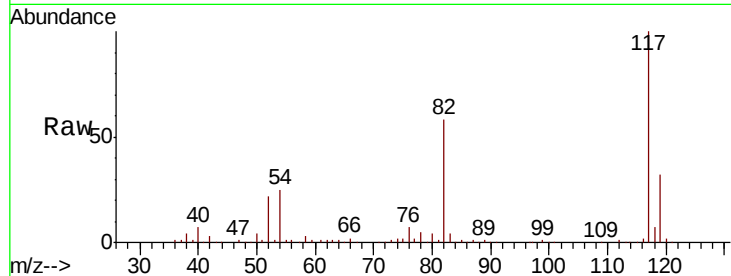




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

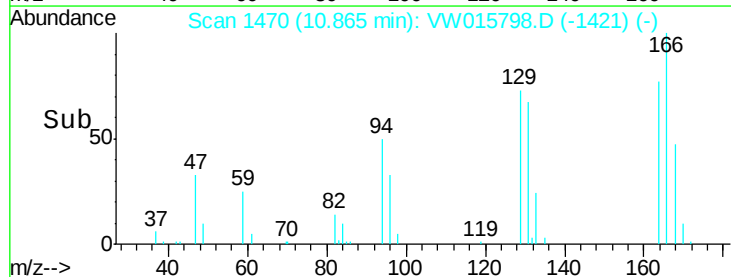
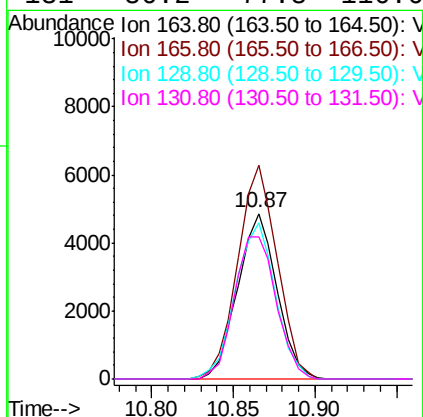
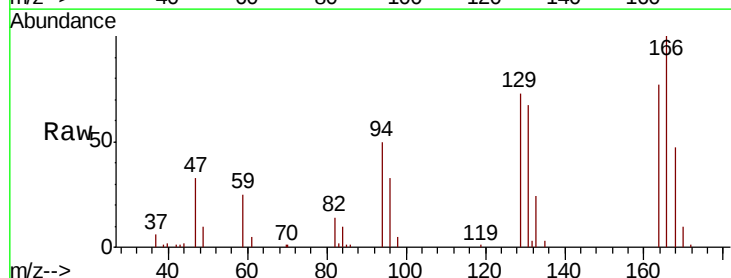
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

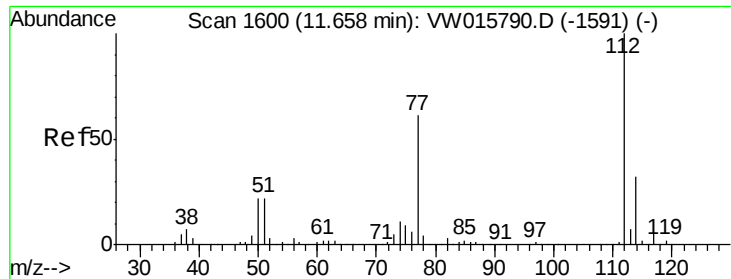
Tot Ion:117 Resp: 301336
Ion Ratio Lower Upper
117 100
82 57.7 45.5 68.3
119 32.4 25.0 37.6



#64
Tetrachloroethene
Concen: 4.286 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion:164 Resp: 8174
Ion Ratio Lower Upper
164 100
166 129.1 105.1 157.7
129 94.7 80.6 121.0
131 86.2 77.8 116.6

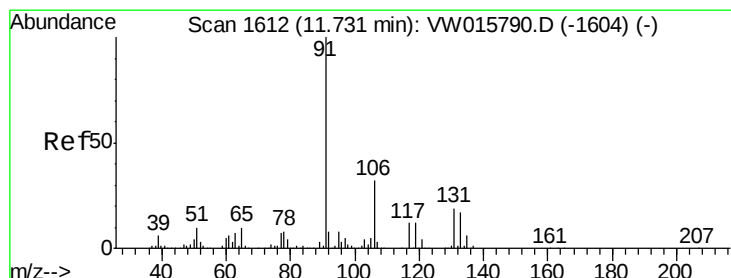
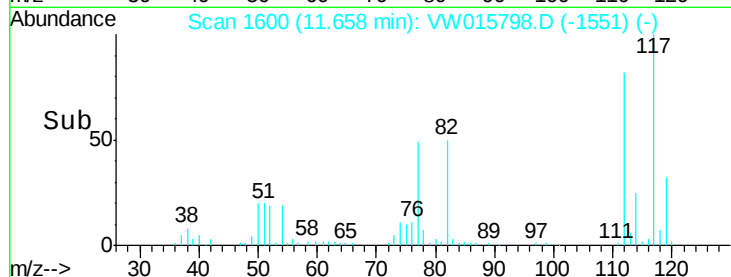
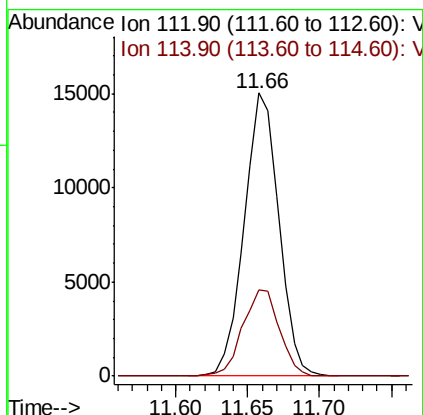
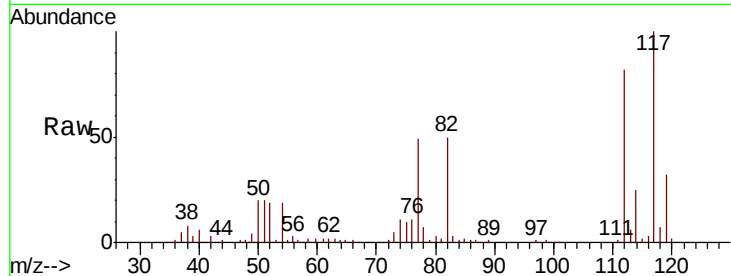




#65
Chlorobenzene
Concen: 4.234 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

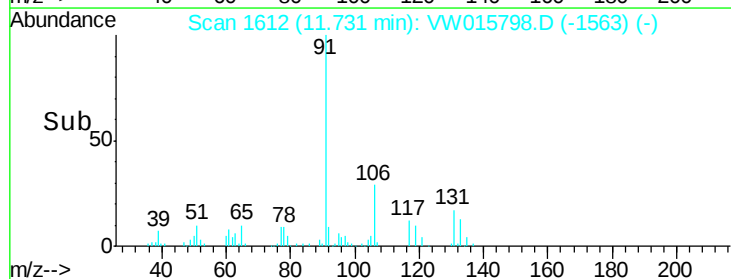
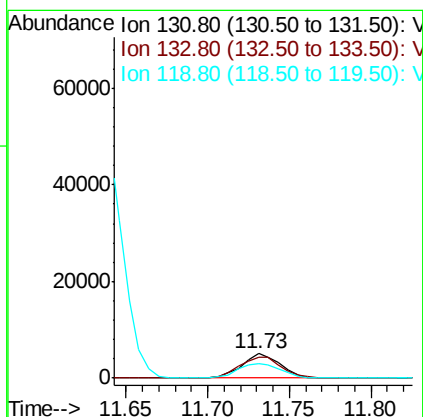
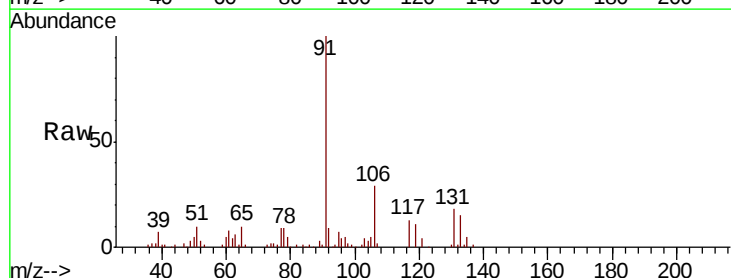
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

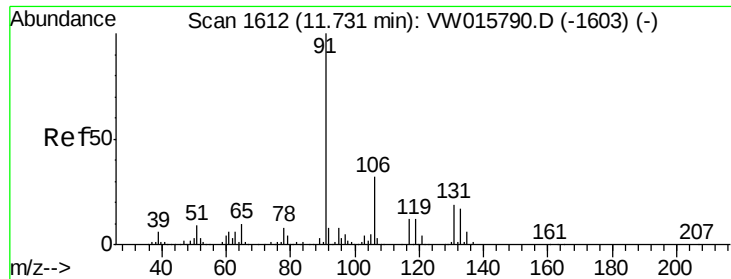
Tot Ion:112 Resp: 24950
Ion Ratio Lower Upper
112 100
114 30.7 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 3.911 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion:131 Resp: 8157
Ion Ratio Lower Upper
131 100
133 95.4 47.0 141.2
119 67.4 32.3 96.8

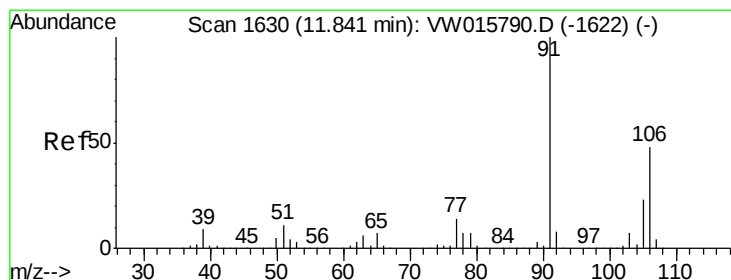
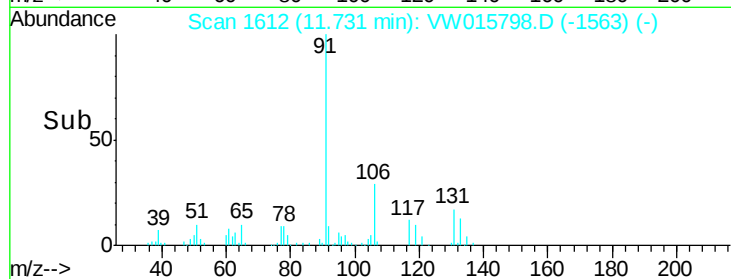
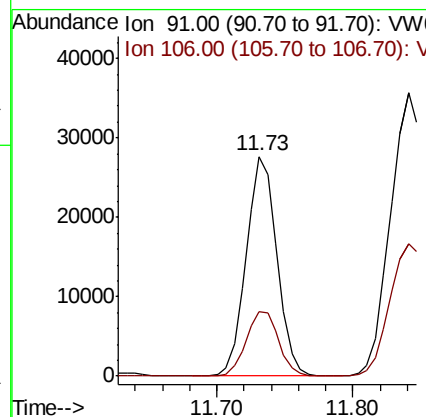
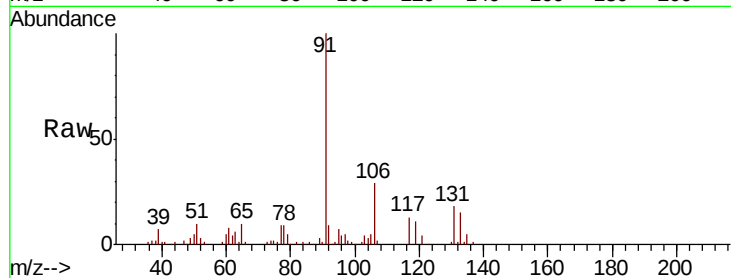




#67
Ethyl Benzene
Concen: 4.014 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

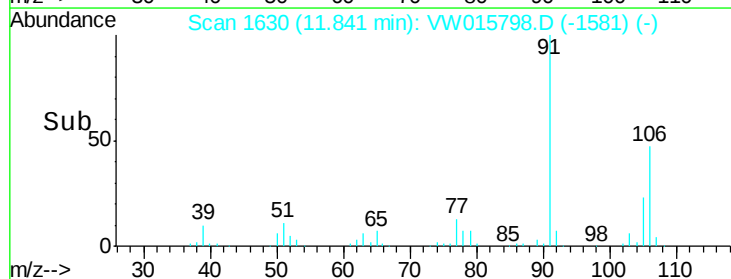
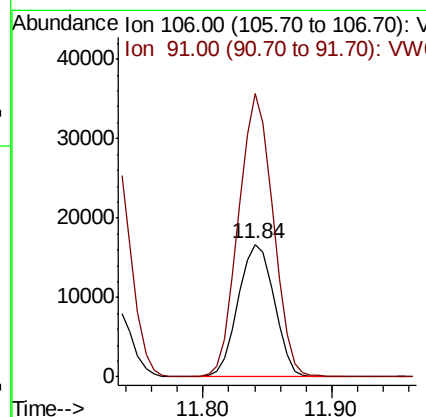
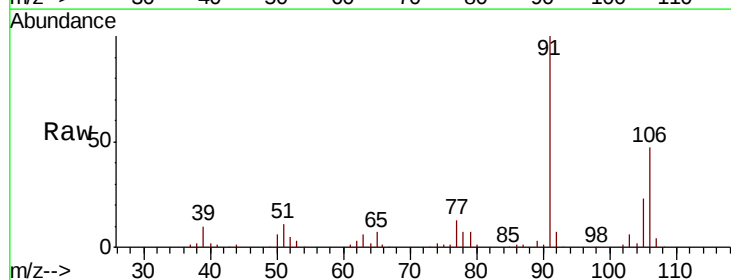
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

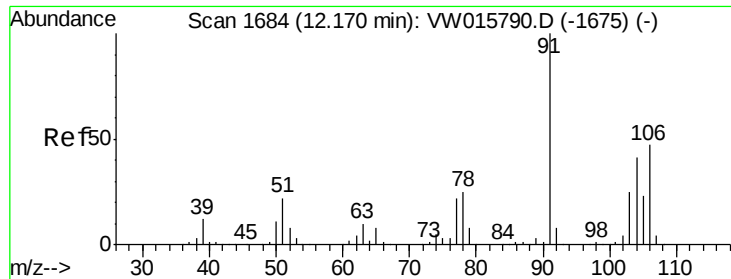
Tot Ion: 91 Resp: 43805
Ion Ratio Lower Upper
91 100
106 29.3 25.8 38.8



#68
m/p-Xylenes
Concen: 7.945 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion: 106 Resp: 32570
Ion Ratio Lower Upper
106 100
91 204.2 164.1 246.1

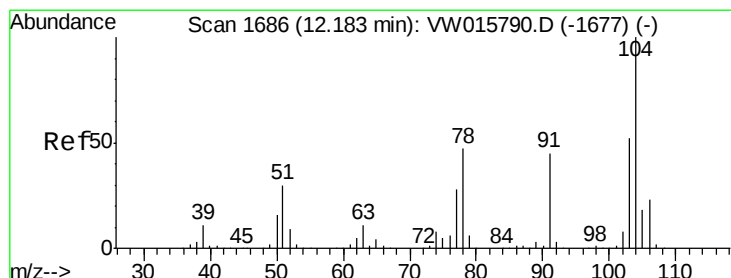
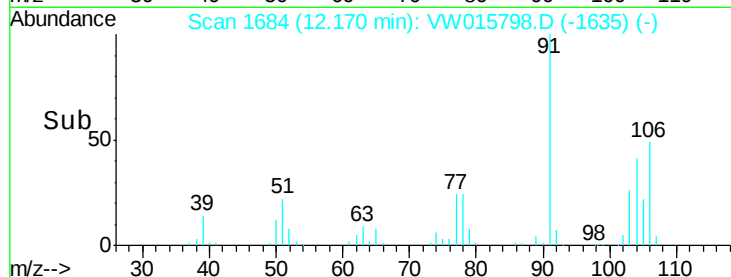
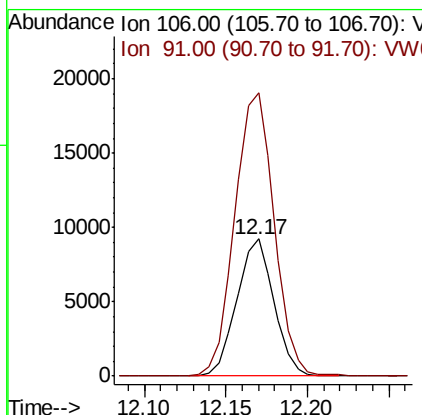
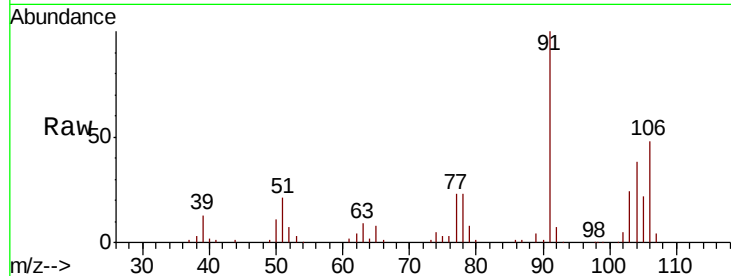




#69
o-Xylene
Concen: 3.917 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

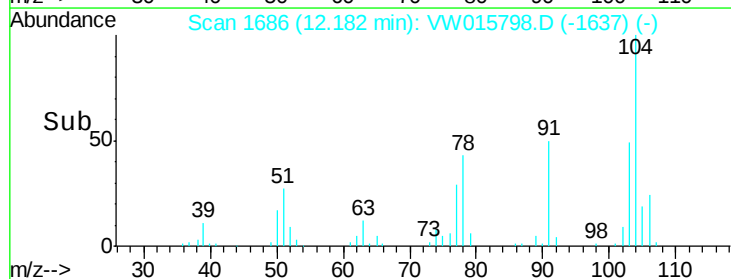
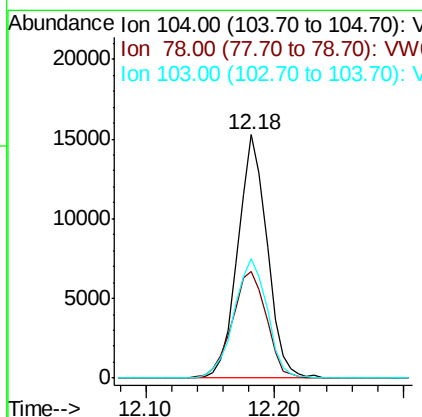
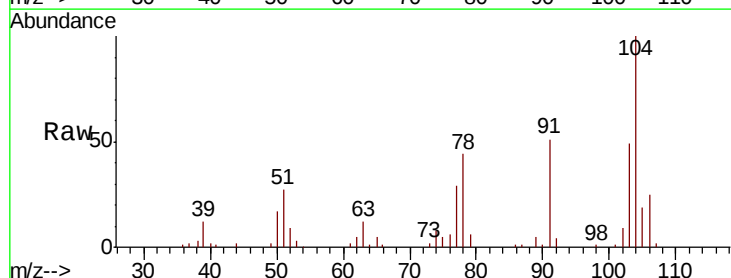
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

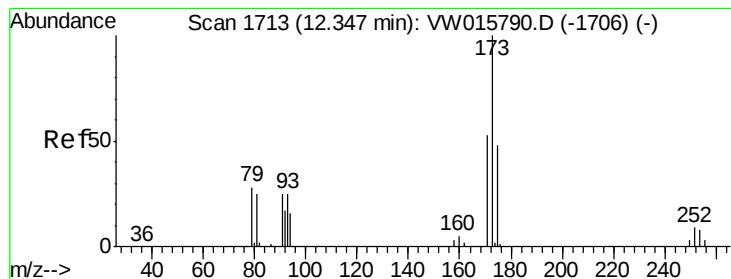
Tot Ion:106 Resp: 14659
Ion Ratio Lower Upper
106 100
91 219.1 108.5 325.3



#70
Styrene
Concen: 3.737 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion:104 Resp: 24063
Ion Ratio Lower Upper
104 100
78 51.4 41.0 61.4
103 55.5 43.8 65.8





#71

Bromoform

Concen: 3.450 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

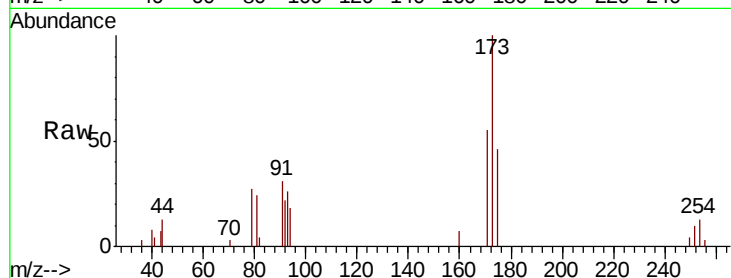
Tot Ion:173 Resp: 3284

Ion Ratio Lower Upper

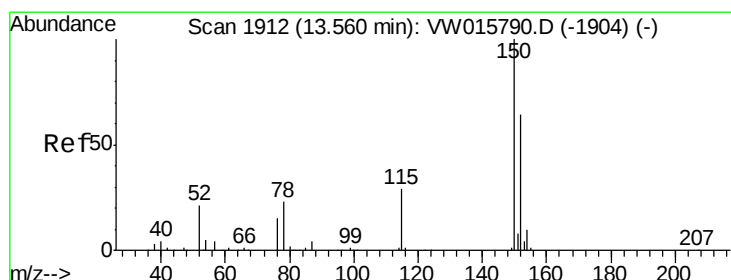
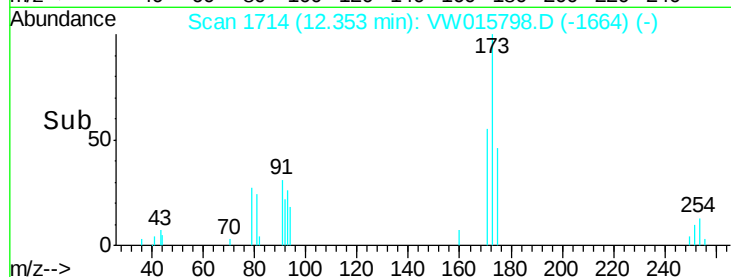
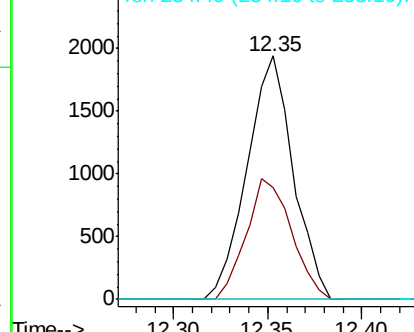
173 100

175 48.8 23.5 70.5

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

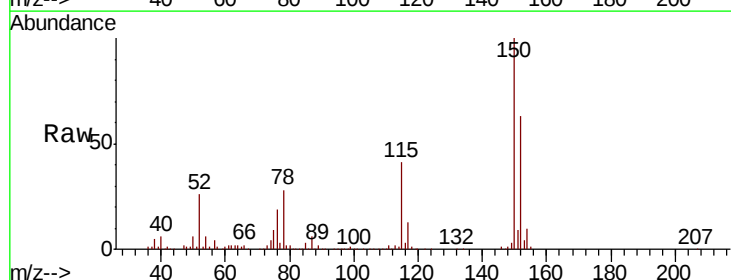
Tgt Ion:152 Resp: 143498

Ion Ratio Lower Upper

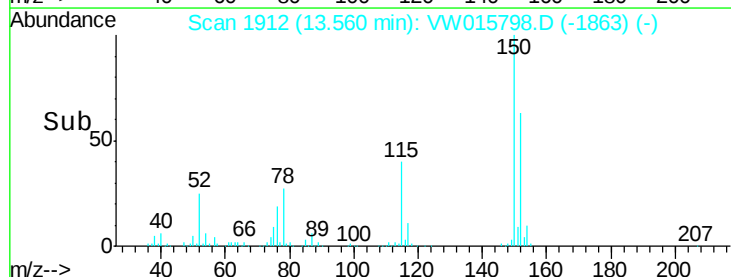
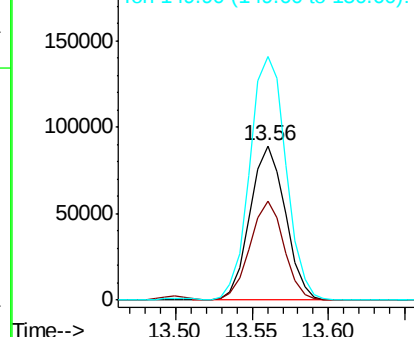
152 100

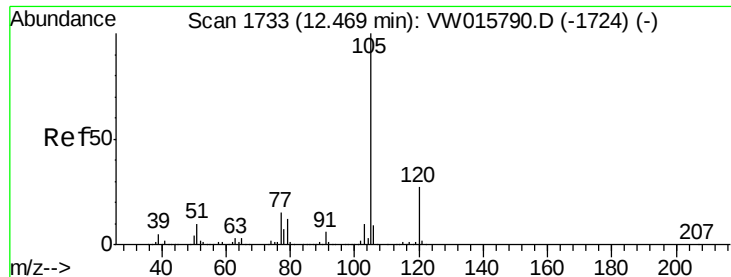
115 61.7 29.9 89.7

150 162.0 0.0 350.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 3.976 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

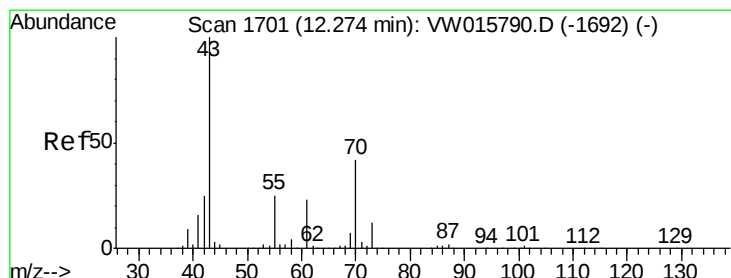
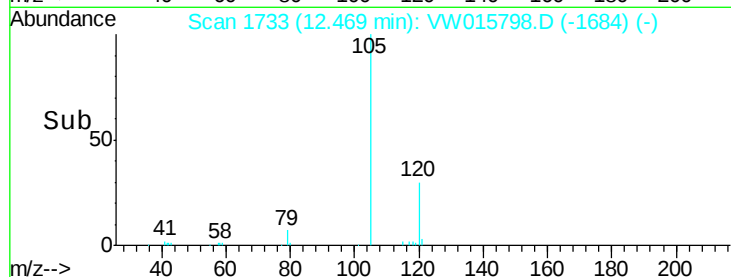
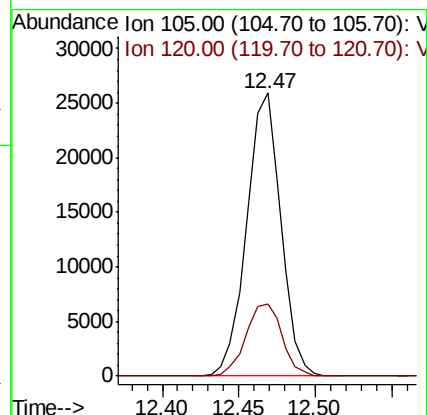
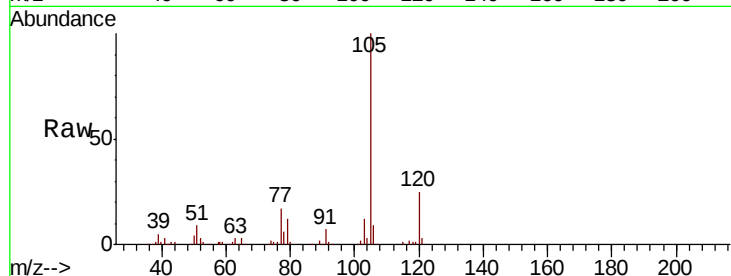
LOD-MDL-SOIL-01-QT3-2020

Tot Ion:105 Resp: 40196

Ion Ratio Lower Upper

105 100

120 27.0 13.2 39.6



#74

N-ethyl acetate

Concen: 3.936 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Tgt Ion: 43 Resp: 8514

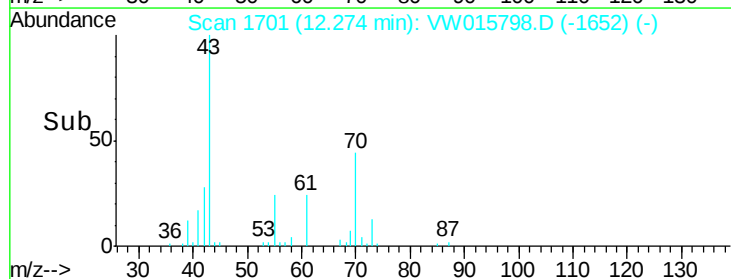
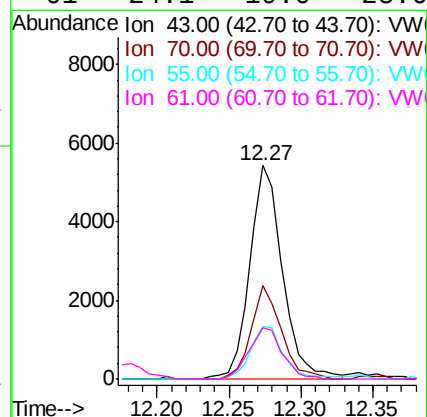
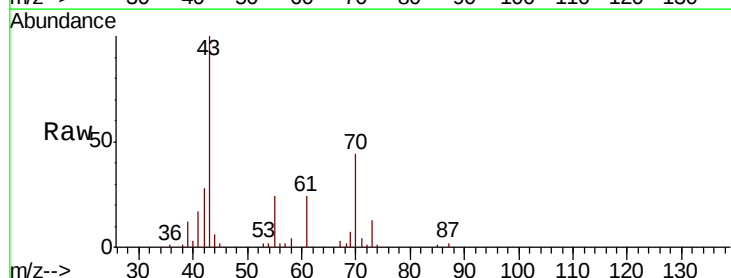
Ion Ratio Lower Upper

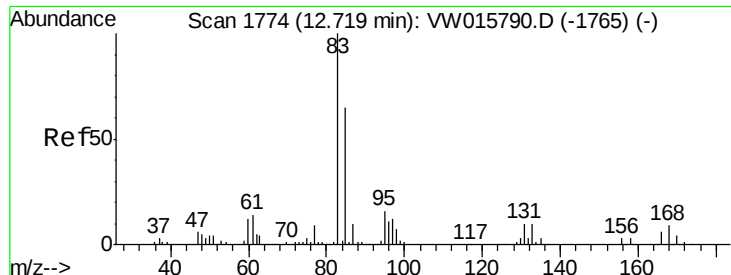
43 100

70 40.5 34.1 51.1

55 25.0 20.0 30.0

61 24.1 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 4.366 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

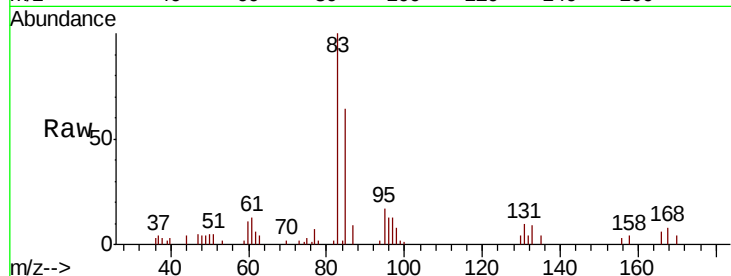
Tot Ion: 83 Resp: 7333

Ion Ratio Lower Upper

83 100

131 10.4 5.3 16.1

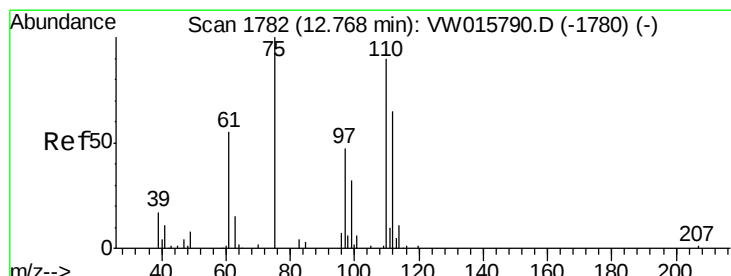
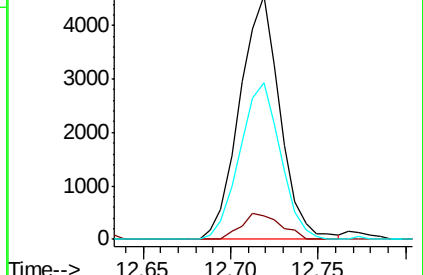
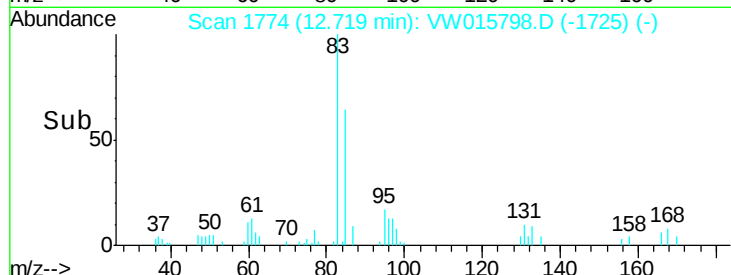
85 64.9 31.9 95.9



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 7.331 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW015798.D

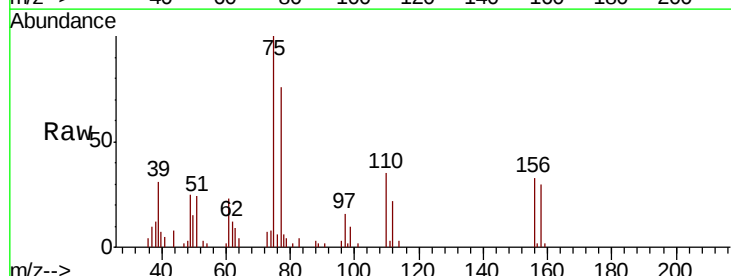
Acq: 07 Jul 2020 18:28

Tgt Ion: 75 Resp: 9245

Ion Ratio Lower Upper

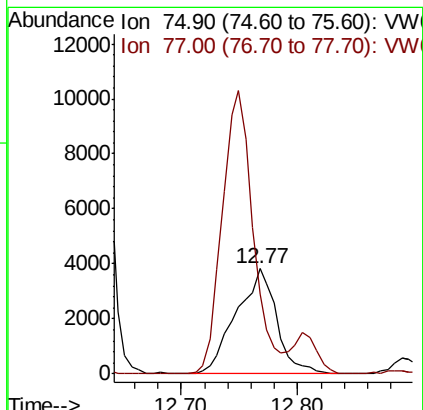
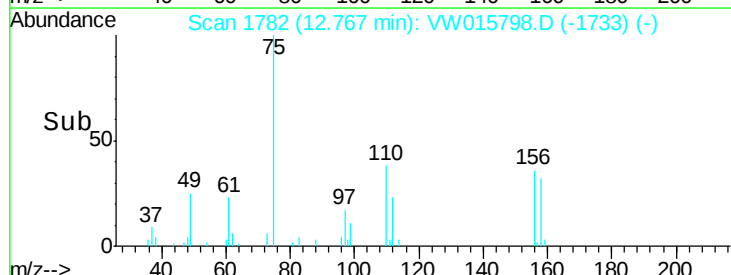
75 100

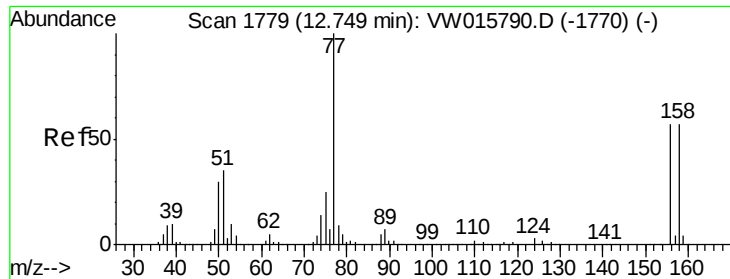
77 205.2 177.3 532.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 4.269 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

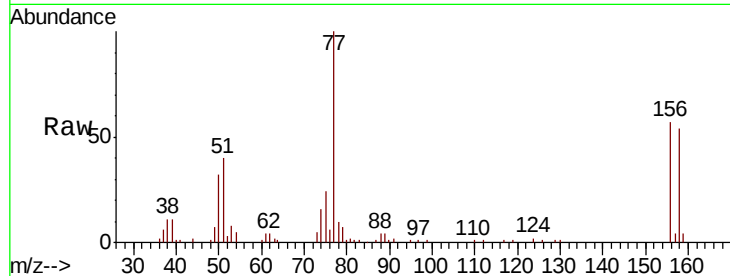
Tot Ion:156 Resp: 9676

Ion Ratio Lower Upper

156 100

77 196.1 98.8 296.4

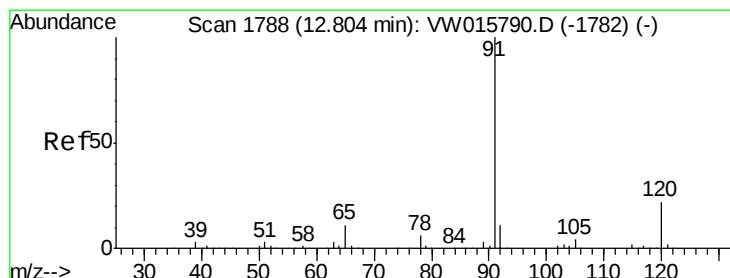
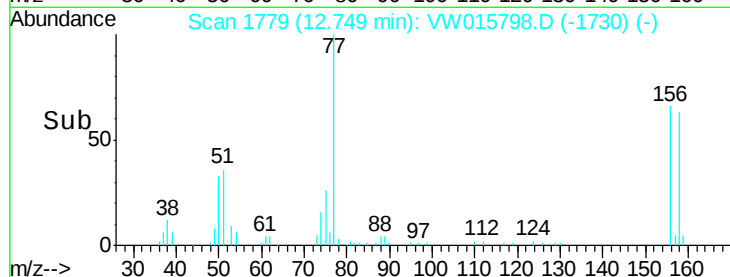
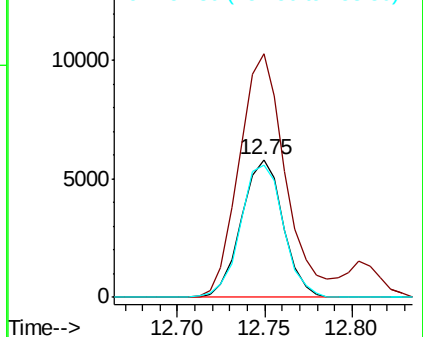
158 98.8 50.0 149.8



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: 4.080 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW015798.D

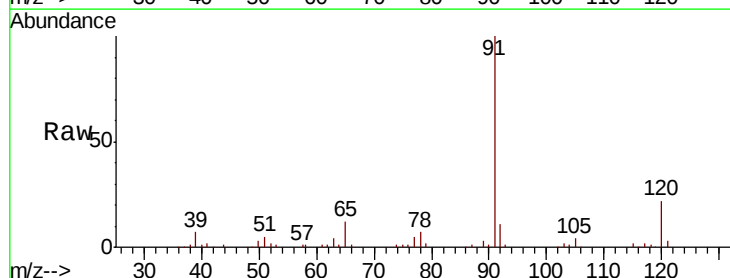
Acq: 07 Jul 2020 18:28

Tgt Ion: 91 Resp: 50059

Ion Ratio Lower Upper

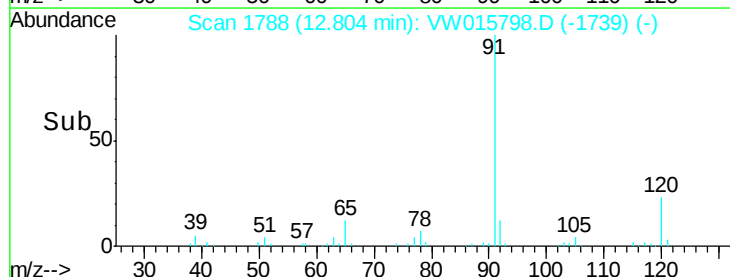
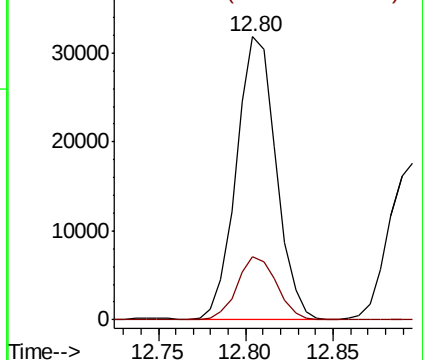
91 100

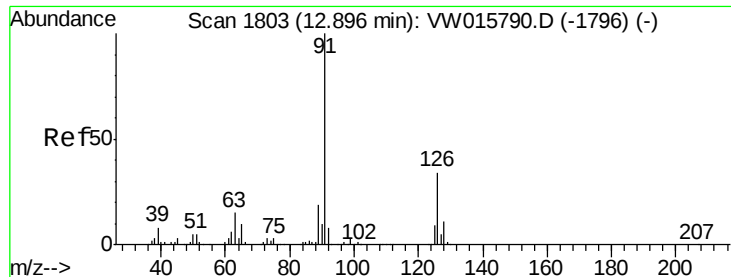
120 22.2 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.134 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

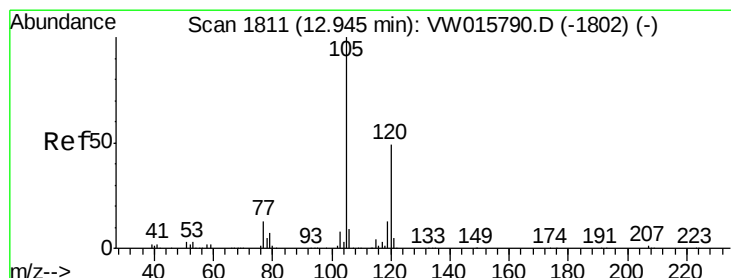
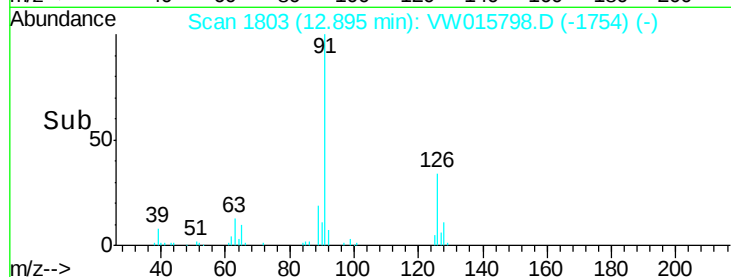
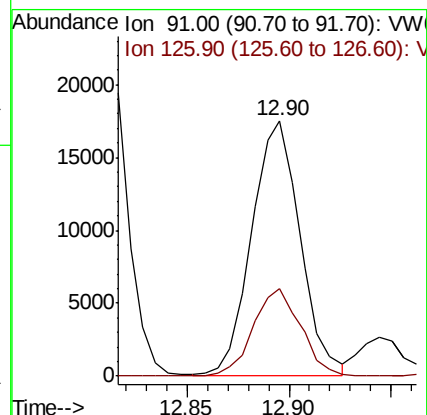
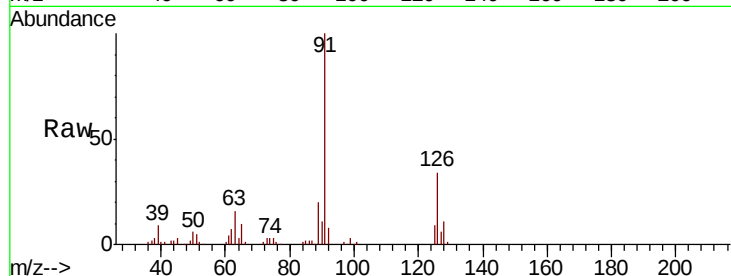
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 91 Resp: 28927

Ion Ratio Lower Upper

91 100

126 33.6 16.5 49.5



#80

1,3,5-Trimethylbenzene

Concen: 4.060 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW015798.D

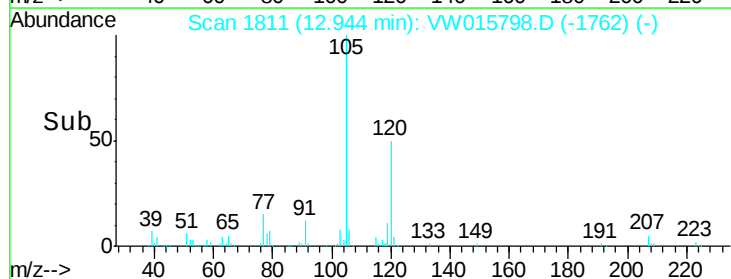
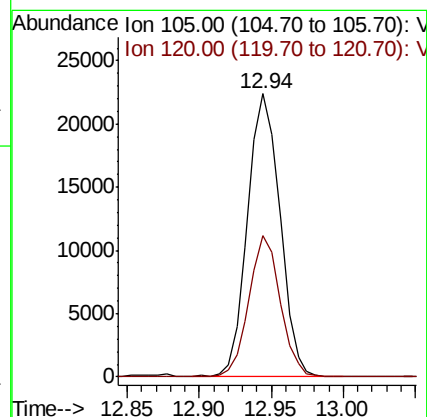
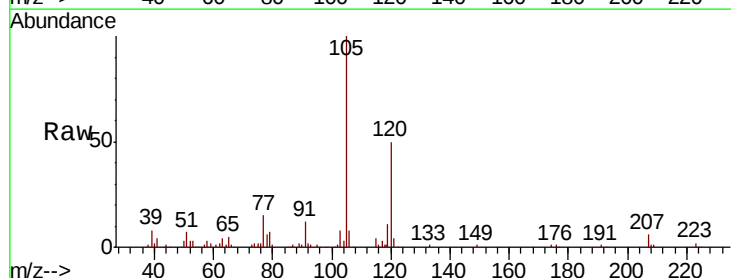
Acq: 07 Jul 2020 18:28

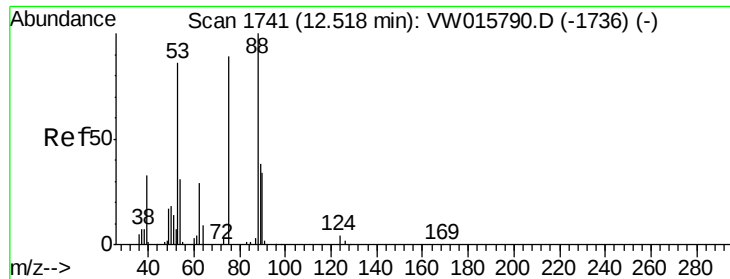
Tgt Ion:105 Resp: 34984

Ion Ratio Lower Upper

105 100

120 48.0 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 140.286 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

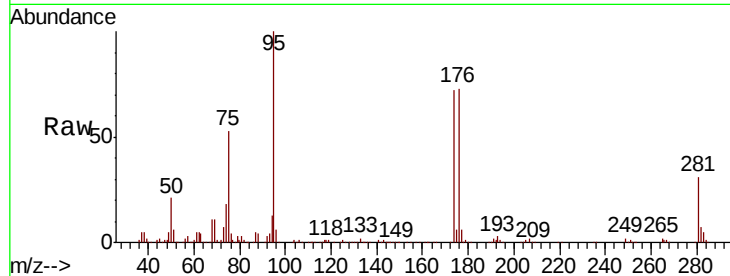
Tot Ion: 75 Resp: 69221

Ion Ratio Lower Upper

75 100

53 0.0 85.9 128.9#

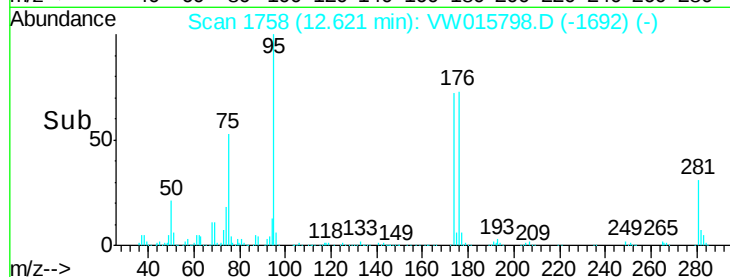
89 0.5 36.2 54.4#



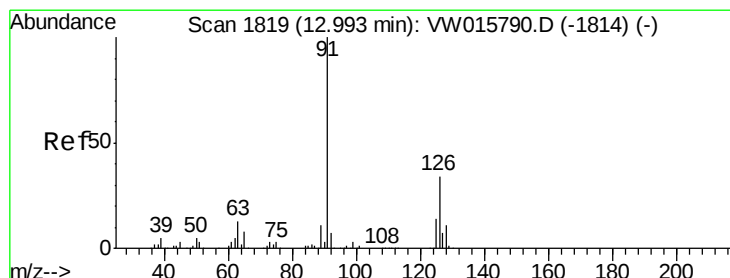
Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



Time-->



#82

4-Chlorotoluene

Concen: 4.206 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VW015798.D

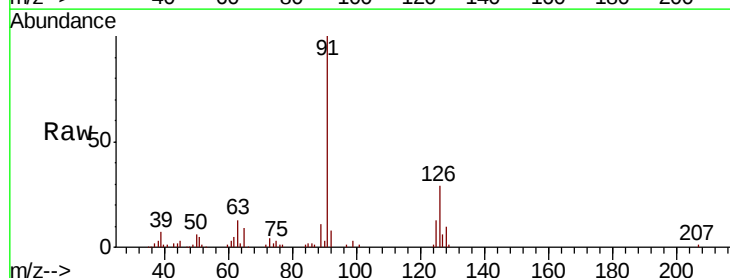
Acq: 07 Jul 2020 18:28

Tgt Ion: 91 Resp: 30736

Ion Ratio Lower Upper

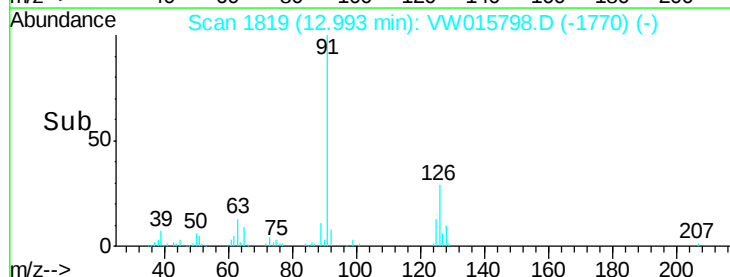
91 100

126 31.6 16.3 48.9

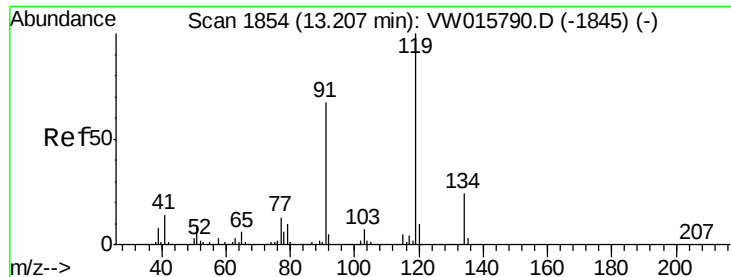


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



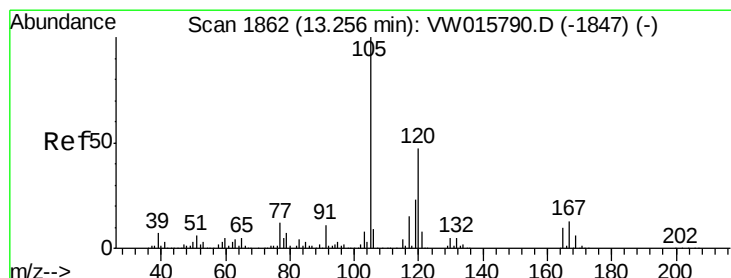
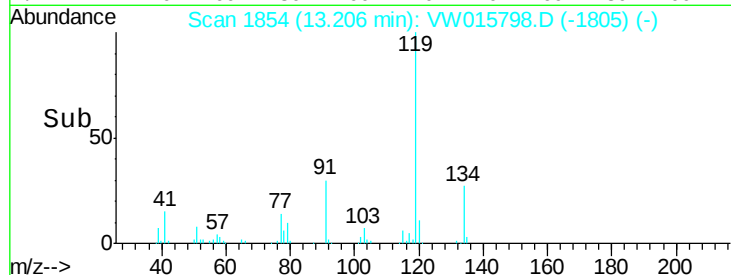
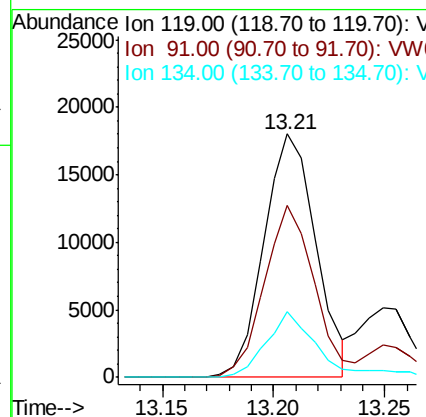
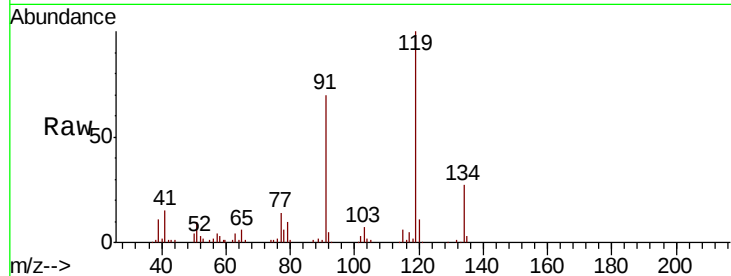
Time-->



#83
tert-Butylbenzene
Concen: 4.078 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

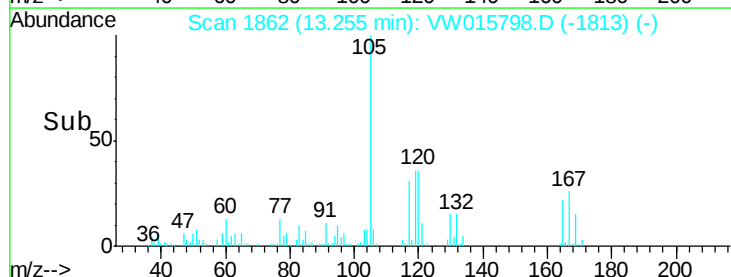
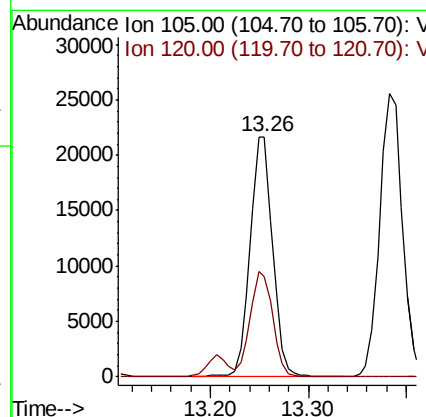
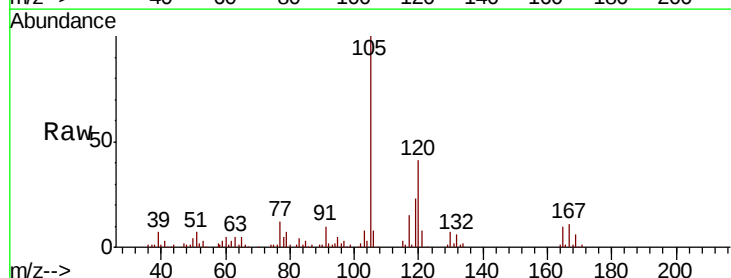
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

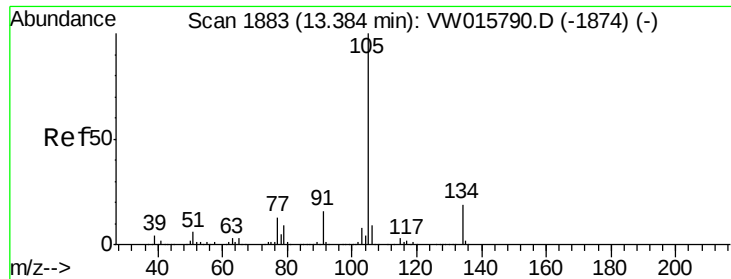
Tot Ion:119 Resp: 29172
Ion Ratio Lower Upper
119 100
91 68.6 34.4 103.3
134 27.4 13.6 40.7



#84
1,2,4-Trimethylbenzene
Concen: 4.049 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion:105 Resp: 34842
Ion Ratio Lower Upper
105 100
120 43.7 22.8 68.4

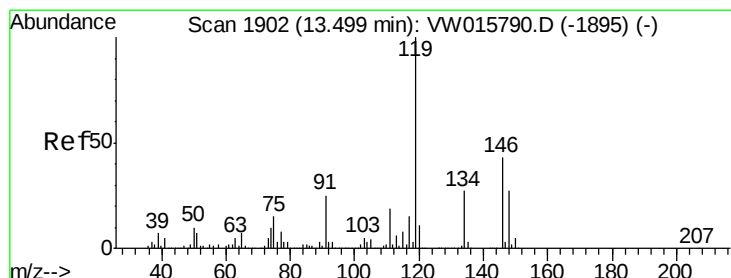
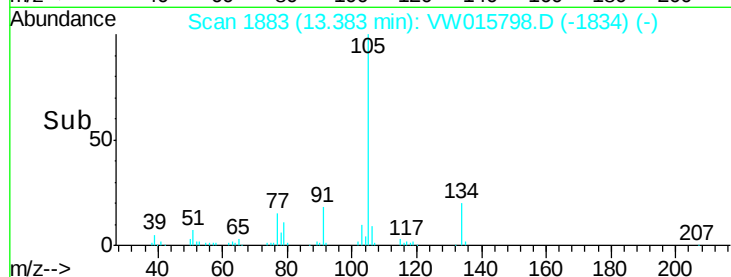
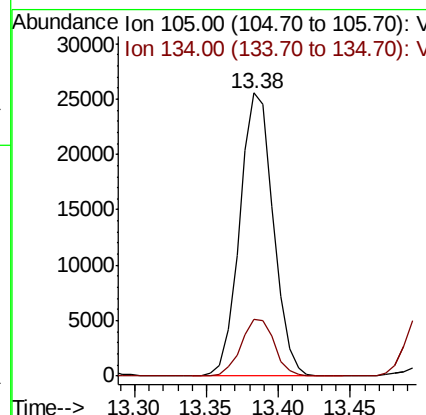
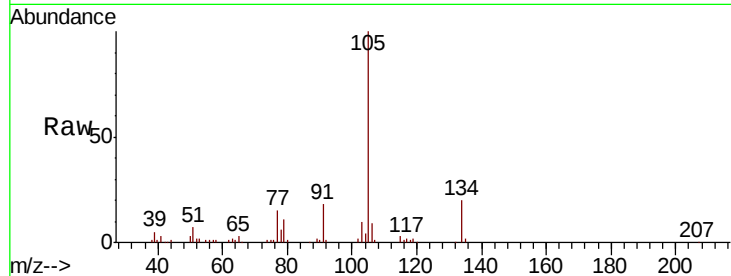




#85
 sec-Butylbenzene
 Concen: 3.990 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

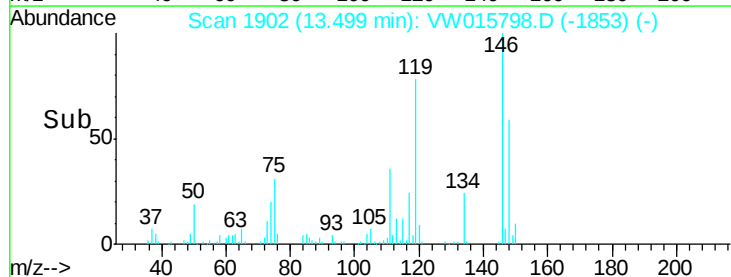
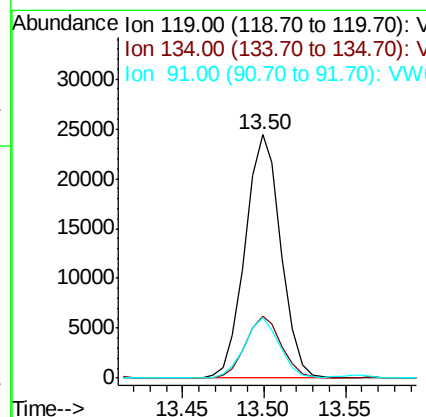
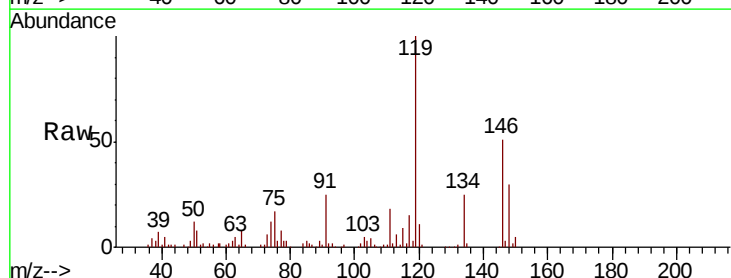
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

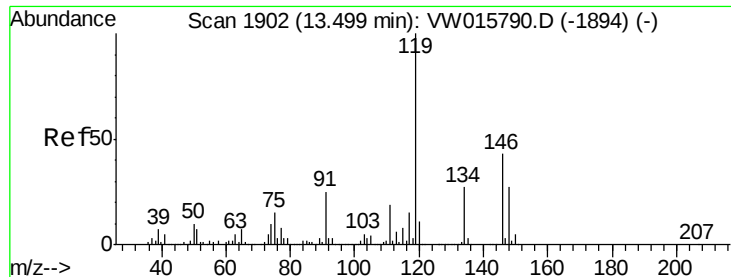
Tot Ion:105 Resp: 41218
 Ion Ratio Lower Upper
 105 100
 134 19.9 10.0 29.8



#86
 p-Isopropyltoluene
 Concen: 3.939 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion:119 Resp: 37161
 Ion Ratio Lower Upper
 119 100
 134 25.5 13.2 39.6
 91 24.5 12.2 36.6





#87

1,3-Dichlorobenzene

Concen: 4.270 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

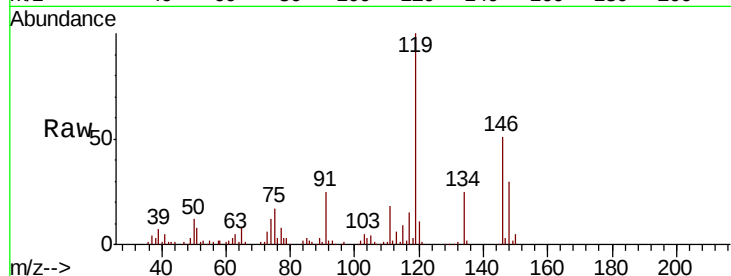
Tot Ion:146 Resp: 19403

Ion Ratio Lower Upper

146 100

111 41.0 20.8 62.4

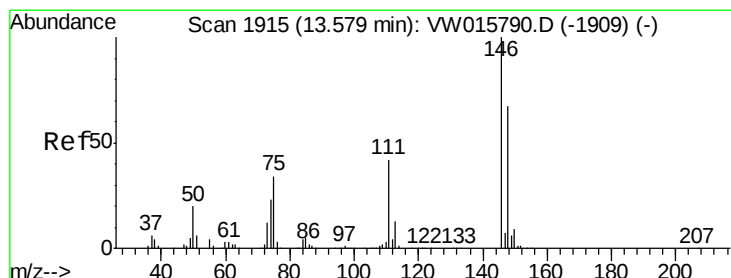
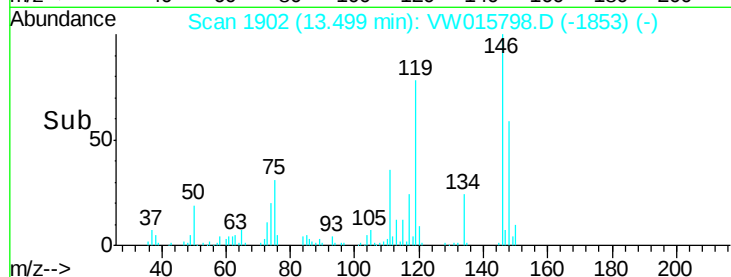
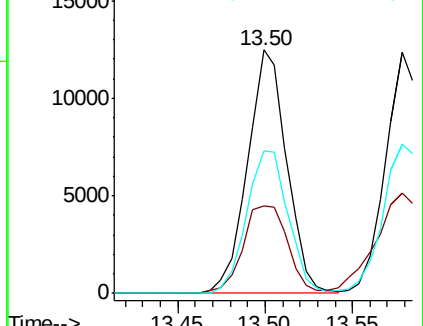
148 62.1 31.4 94.2



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: 4.327 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

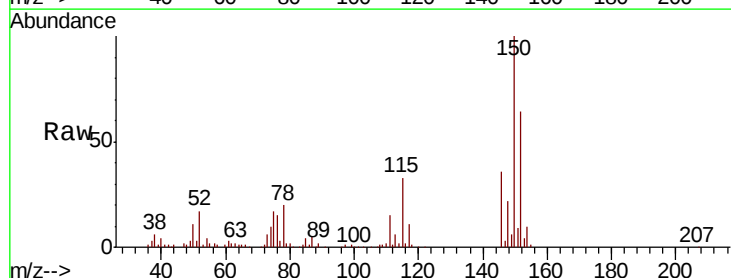
Tgt Ion:146 Resp: 19248

Ion Ratio Lower Upper

146 100

111 50.6 20.2 60.6

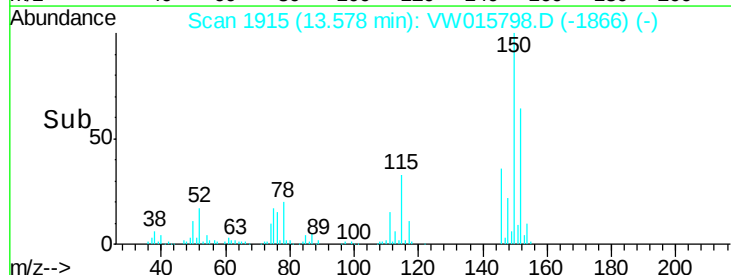
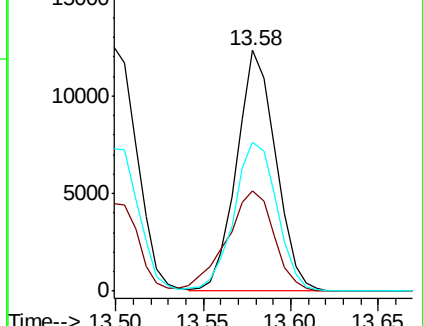
148 67.9 31.8 95.4

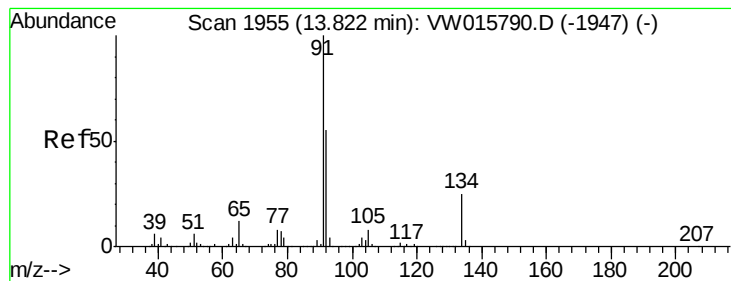


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 3.909 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW015798.D

Acq: 07 Jul 2020 18:28

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

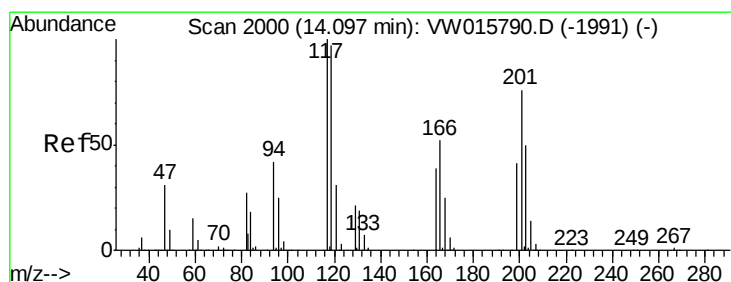
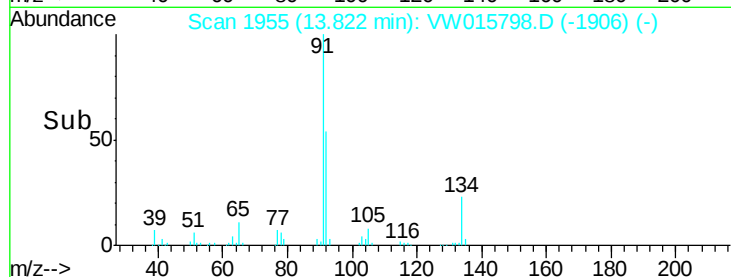
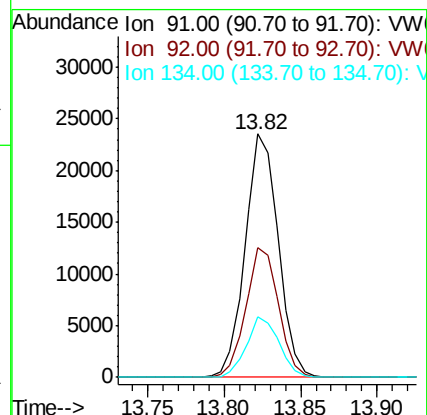
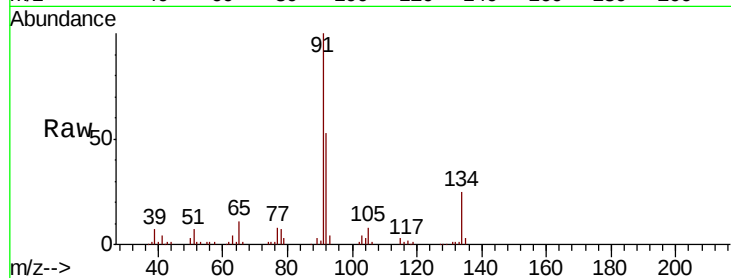
Tot Ion: 91 Resp: 35290

Ion Ratio Lower Upper

91 100

92 53.0 27.2 81.6

134 24.6 12.7 38.1



#90

Hexachloroethane

Concen: 3.957 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW015798.D

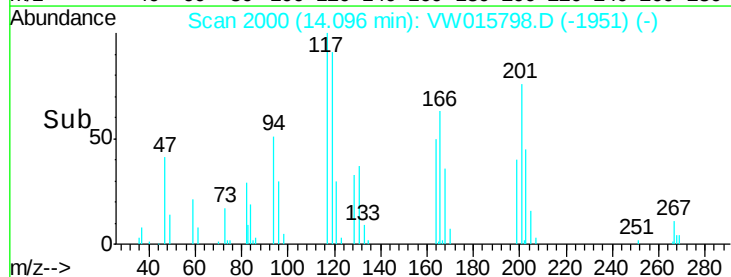
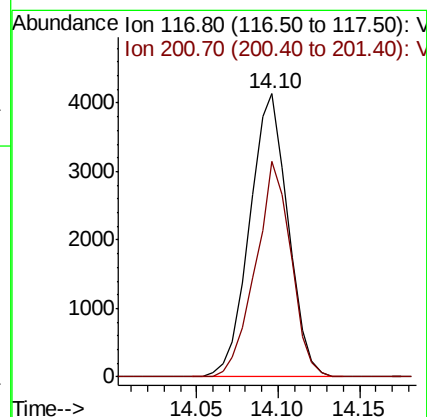
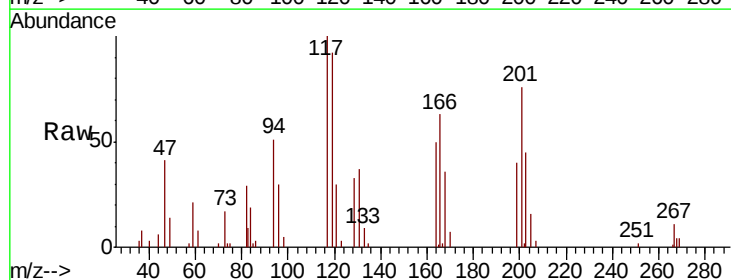
Acq: 07 Jul 2020 18:28

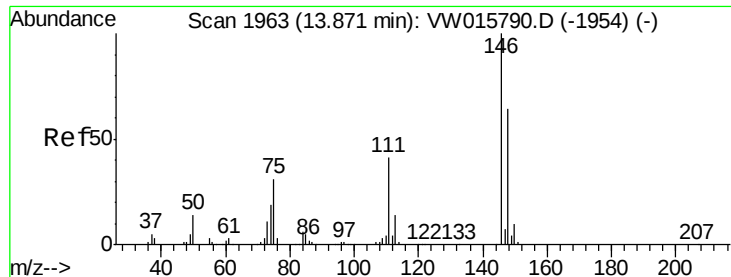
Tgt Ion: 117 Resp: 6765

Ion Ratio Lower Upper

117 100

201 70.4 37.1 111.3

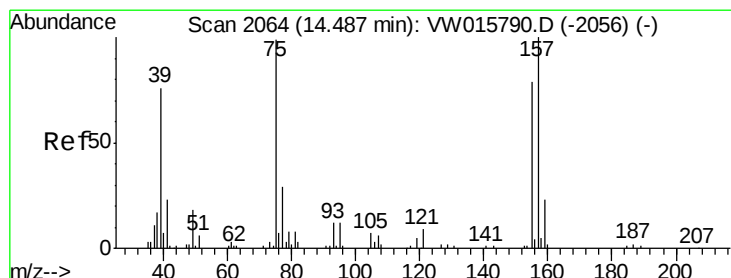
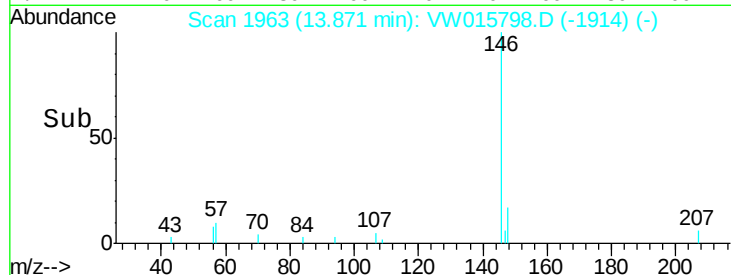
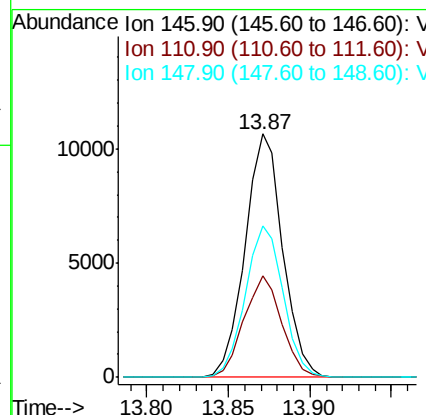
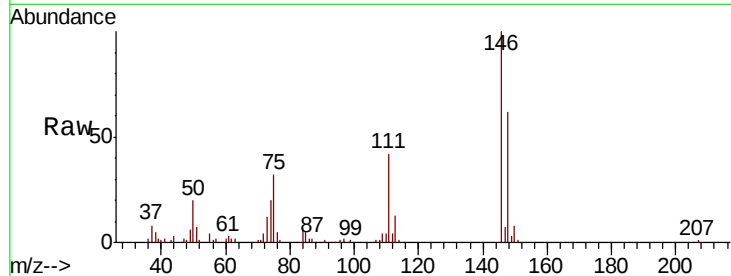




#91
 1,2-Dichlorobenzene
 Concen: 4.350 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

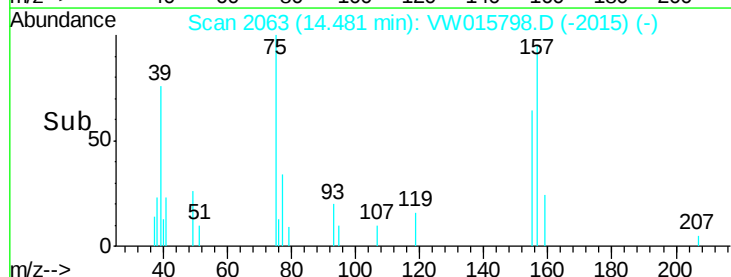
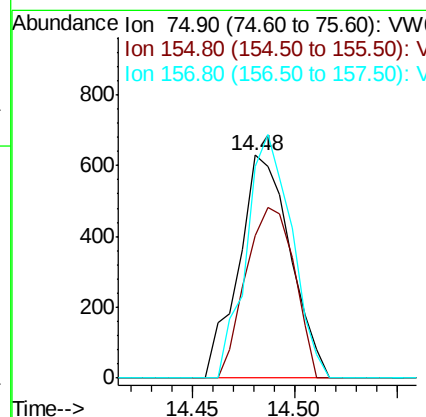
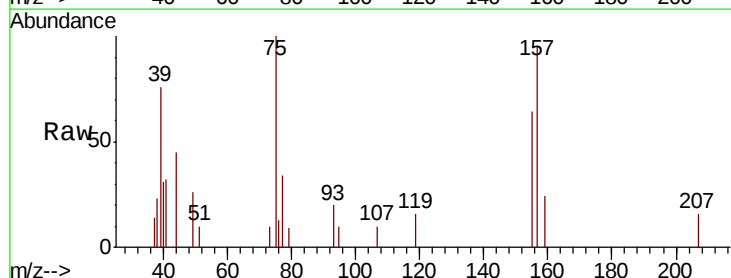
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

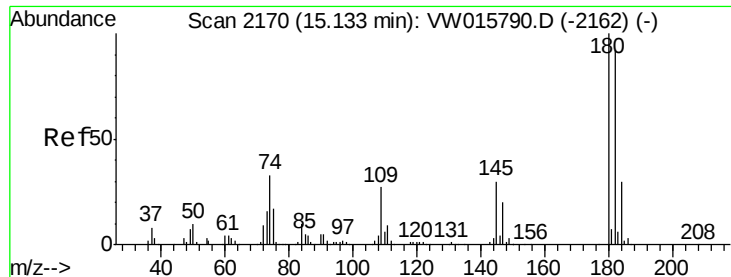
Tot Ion:146 Resp: 17123
 Ion Ratio Lower Upper
 146 100
 111 41.8 20.6 61.9
 148 62.5 31.8 95.4



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.136 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.01 min
 Lab File: VW015798.D
 Acq: 07 Jul 2020 18:28

Tgt Ion: 75 Resp: 1110
 Ion Ratio Lower Upper
 75 100
 155 71.6 39.1 117.5
 157 95.9 49.1 147.4

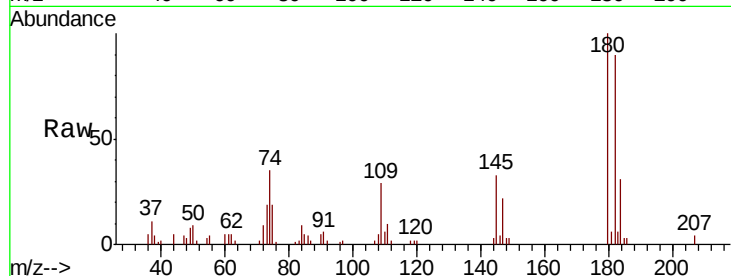




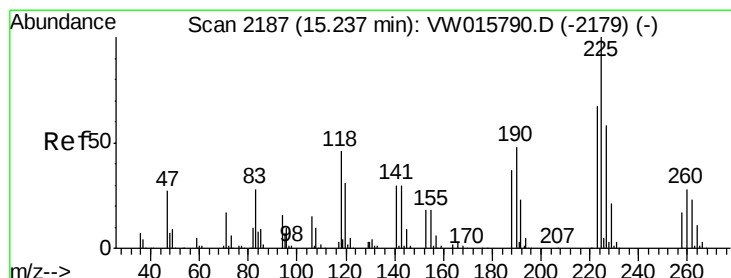
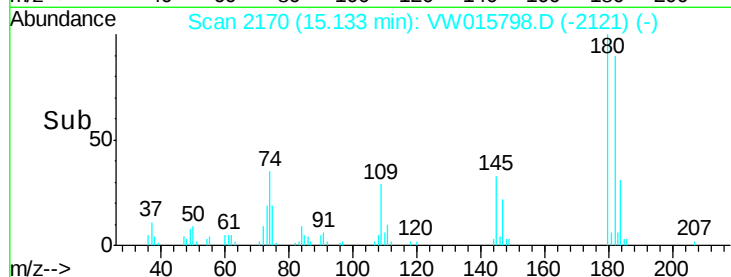
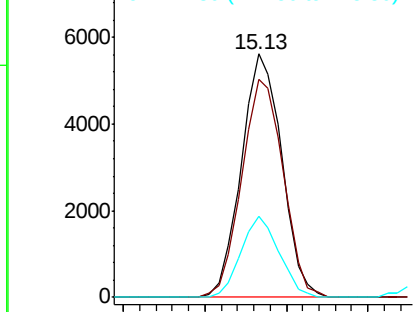
#93
1,2,4-Trichlorobenzene
Concen: 3.904 ug/l
RT: 15.13 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.8	46.8	140.3
145	31.3	15.4	46.4

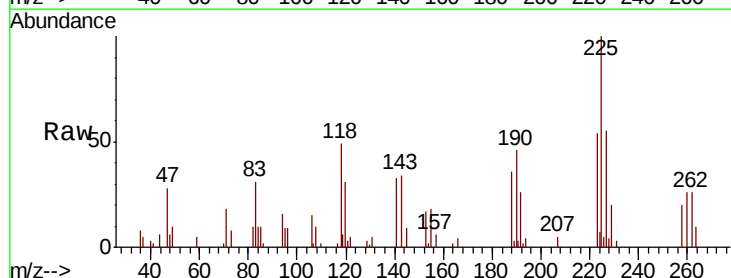


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

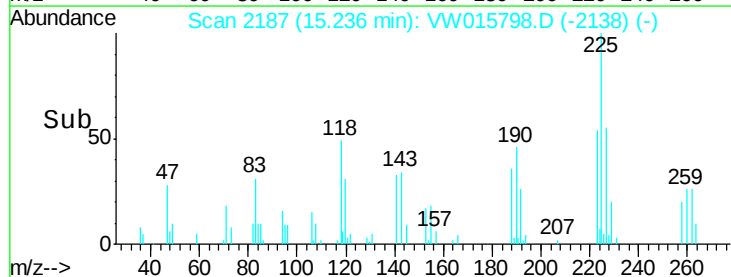
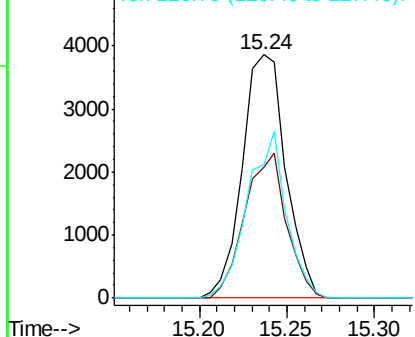


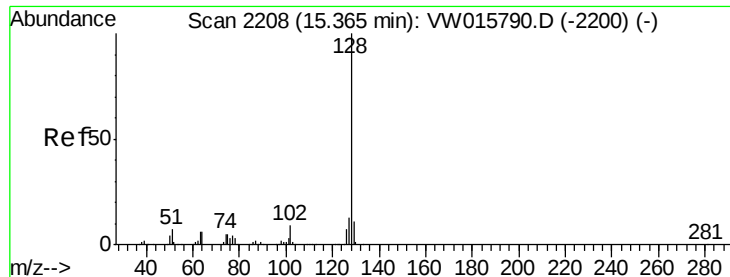
#94
Hexachlorobutadiene
Concen: 4.246 ug/l
RT: 15.24 min Scan# 2187
Delta R.T. -0.00 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	57.1	32.4	97.2
227	61.2	30.7	92.1



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

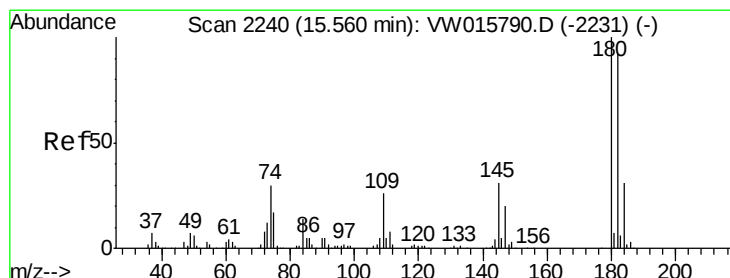
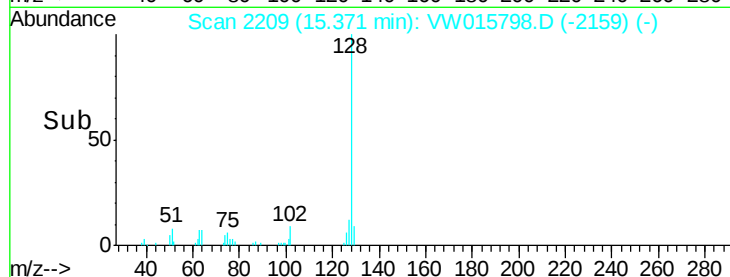
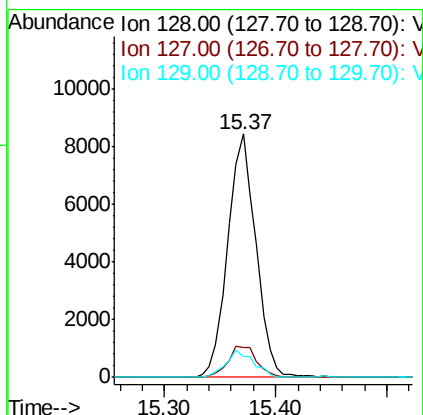
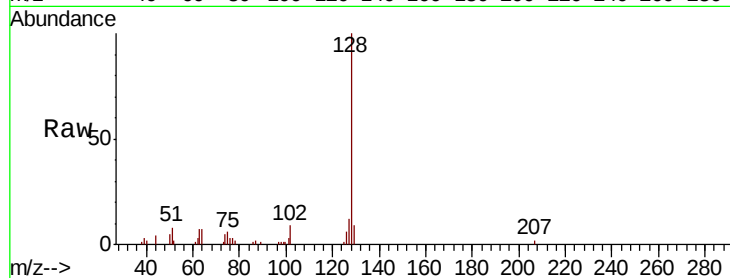




#95
Naphthalene
Concen: 3.573 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion:128 Resp: 14822
Ion Ratio Lower Upper
128 100
127 13.1 10.6 16.0
129 10.9 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 4.190 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.01 min
Lab File: VW015798.D
Acq: 07 Jul 2020 18:28

Tgt Ion:180 Resp: 8849
Ion Ratio Lower Upper
180 100
182 91.4 47.7 143.1
145 31.9 16.7 50.0

