

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010421\
 Data File : VW017787.D
 Acq On : 04 Jan 2021 14:37
 Operator : SY/VA
 Sample : L5214-04
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-QT1-2021-02

Quant Time: Jan 04 17:34:51 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SFAMWLM123020SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Jan 04 13:03:14 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	273803	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	254093	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.55	152	121479	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	114301	24.56	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.24%
7) Chloroethane-d5	2.89	69	95590	23.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.52%
11) 1,1-Dichloroethene-d2	4.02	63	155098	19.80	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.20%
21) 2-Butanone-d5	7.08	46	55047	46.83	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.66%
24) Chloroform-d	7.65	84	190411	24.53	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.12%
26) 1,2-Dichloroethane-d4	8.31	65	111744	24.84	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.36%
32) Benzene-d6	8.27	84	375080	25.47	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	101.88%
36) 1,2-Dichloropropane-d6	9.27	67	108418	25.74	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.96%
41) Toluene-d8	10.32	98	353605	25.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.12%
43) trans-1,3-Dichloropropene-	10.58	79	50303	25.10	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.40%
47) 2-Hexanone-d5	10.93	63	38217	48.56	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.12%
56) 1,1,2,2-Tetrachloroethane-	12.69	84	96222	23.60	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.40%
66) 1,2-Dichlorobenzene-d4	13.85	152	112279	24.92	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.68%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	3494	1.059 ug/L #	84
3) Chloromethane	2.21	50	3637	1.267 ug/L	89
5) Vinyl chloride	2.36	62	5411	1.143 ug/L #	40
6) Bromomethane	2.78	94	4174	0.997 ug/L	71
8) Chloroethane	2.93	64	3346m	1.069 ug/L	
9) Trichlorofluoromethane	3.26	101	2781	0.864 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	4.07	101	4960m	1.345 ug/L	
12) 1,1-Dichloroethene	4.04	96	4679m	1.338 ug/L	
13) Acetone	4.14	43	3260m	4.085 ug/L	
14) Carbon disulfide	4.39	76	8996	0.897 ug/L #	88
15) Methyl Acetate	4.68	43	2178m	1.264 ug/L	
16) Methylene chloride	4.92	84	7423	1.682 ug/L	96
17) trans-1,2-Dichloroethene	5.43	96	3867m	1.032 ug/L	
18) Methyl tert-butyl Ether	5.43	73	5424m	1.136 ug/L	
19) 1,1-Dichloroethane	6.21	63	6641	1.000 ug/L	96
20) cis-1,2-Dichloroethene	7.17	96	4219m	1.052 ug/L	
22) 2-Butanone	7.17	43	4954m	3.736 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

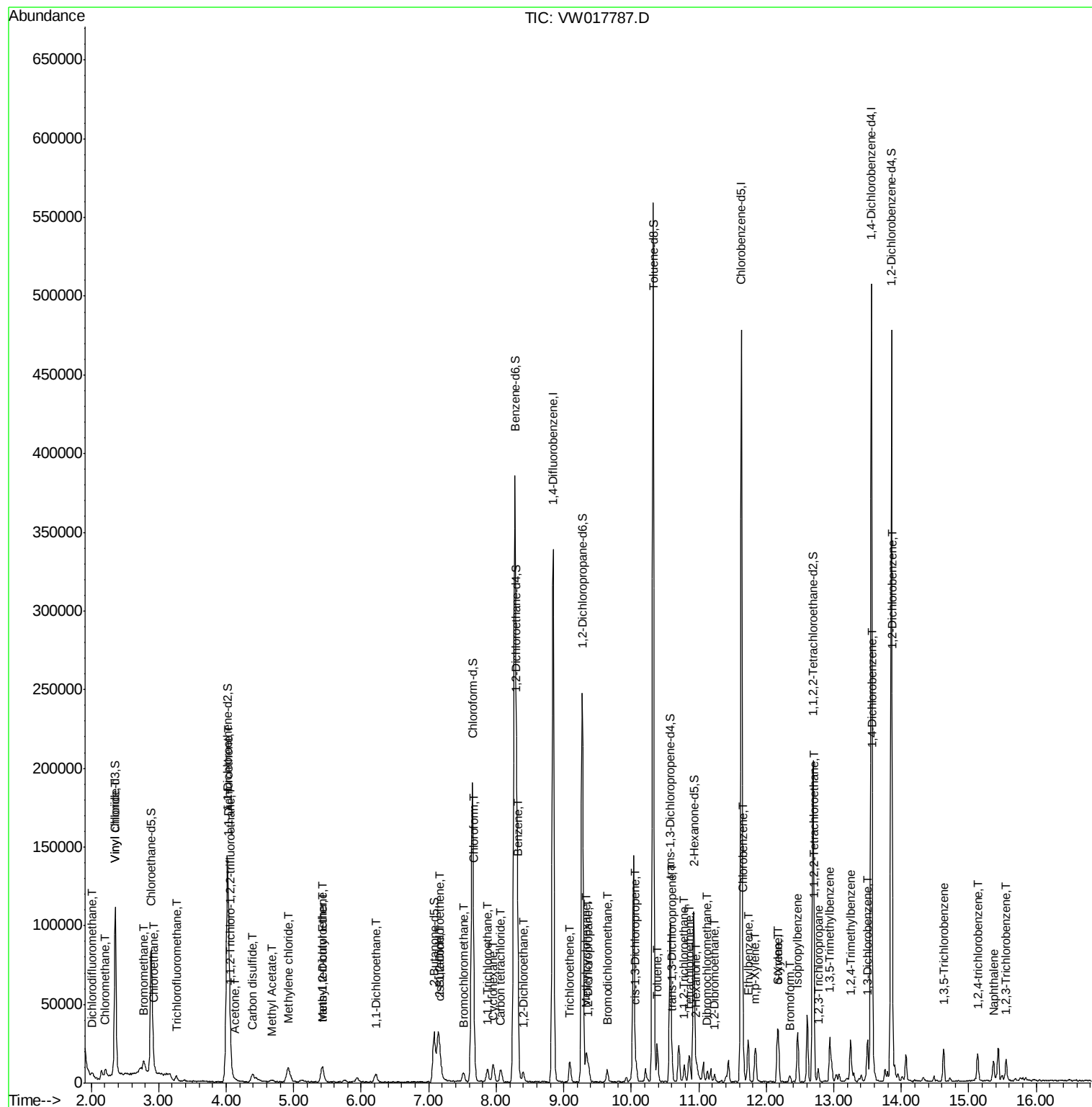
23) Bromochloromethane	7.51	128	1867m	1.017	ug/L	
25) Chloroform	7.67	83	8520	1.210	ug/L	99
27) 1,2-Dichloroethane	8.40	62	5227	1.039	ug/L	97
29) Cyclohexane	7.96	56	5781	0.969	ug/L #	55
30) 1,1,1-Trichloroethane	7.87	97	6239m	1.068	ug/L	
31) Carbon tetrachloride	8.07	117	5515	1.005	ug/L	99
33) Benzene	8.32	78	14560	0.981	ug/L	100
34) Trichloroethene	9.09	95	4153	1.025	ug/L	94
35) Methylcyclohexane	9.33	83	6641	0.957	ug/L	94
37) 1,2-Dichloropropane	9.37	63	3805	1.059	ug/L #	94
38) Bromodichloromethane	9.65	83	5302	1.045	ug/L	98
39) cis-1,3-Dichloropropene	10.07	75	5168	0.901	ug/L	99
42) Toluene	10.38	91	16810	1.000	ug/L	99
44) trans-1,3-Dichloropropene	10.61	75	4537	0.868	ug/L	100
45) 1,1,2-Trichloroethane	10.79	97	2914	0.967	ug/L	93
46) Tetrachloroethene	10.87	164	3014	0.971	ug/L	88
48) 2-Hexanone	10.97	43	4788	2.681	ug/L #	87
49) Dibromochloromethane	11.13	129	3245	0.938	ug/L	96
50) 1,2-Dibromoethane	11.23	107	2884	0.968	ug/L #	93
51) Chlorobenzene	11.66	112	10623	0.996	ug/L	92
52) Ethylbenzene	11.73	91	18513	0.965	ug/L	84
53) m,p-Xylene	11.84	106	6567	0.884	ug/L	96
54) o-Xylene	12.16	106	6157	0.879	ug/L	93
55) Styrene	12.18	104	9838	0.820	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.71	83	4338	1.107	ug/L #	98
59) Bromoform	12.35	173	1562	0.859	ug/L	99
60) Isopropylbenzene	12.46	105	17341	0.978	ug/L	98
61) 1,2,3-Trichloropropane	12.76	75	2925	1.096	ug/L #	91
62) 1,3,5-Trimethylbenzene	12.94	105	13305	0.943	ug/L	100
63) 1,2,4-Trimethylbenzene	13.25	105	13752	0.958	ug/L	96
64) 1,3-Dichlorobenzene	13.50	146	7950	1.039	ug/L	95
65) 1,4-Dichlorobenzene	13.58	146	7961	1.047	ug/L	95
67) 1,2-Dichlorobenzene	13.87	146	7507	1.093	ug/L	97
69) 1,3,5-Trichlorobenzene	14.63	180	5680	1.097	ug/L	96
70) 1,2,4-trichlorobenzene	15.13	180	4537	1.012	ug/L	94
71) Naphthalene	15.36	128	9791	0.948	ug/L	98
72) 1,2,3-Trichlorobenzene	15.55	180	3844	0.975	ug/L	95

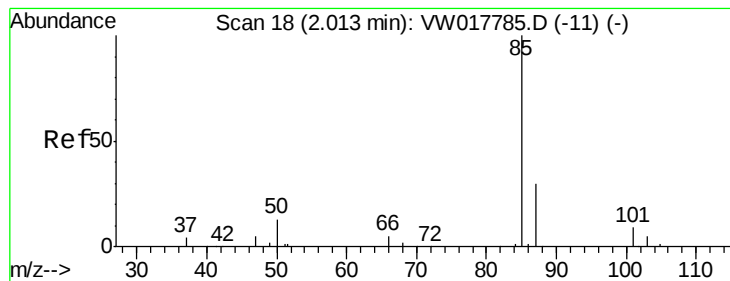
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.059 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

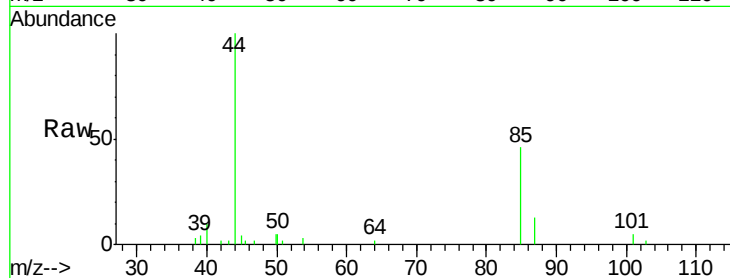
MDL-SOIL-QT1-2021-02

Tot Ion: 85 Resp: 3494

Ion Ratio Lower Upper

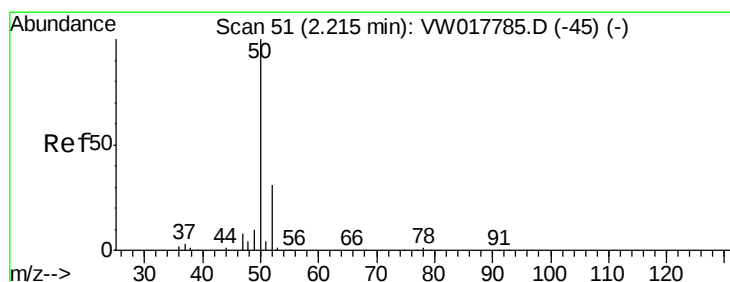
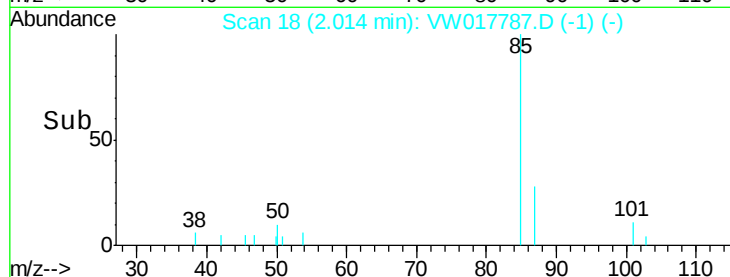
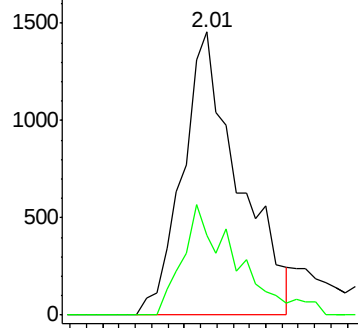
85 100

87 20.7 23.3 34.9#



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 1.267 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW017787.D

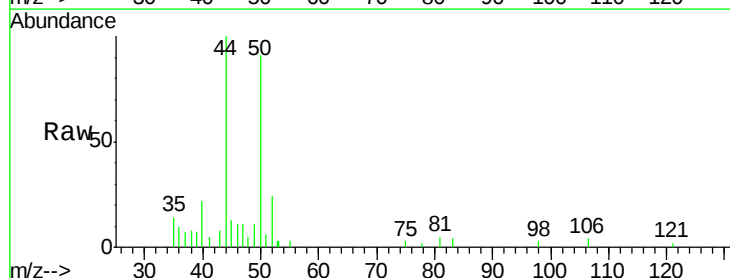
Acq: 04 Jan 2021 14:37

Tgt Ion: 50 Resp: 3637

Ion Ratio Lower Upper

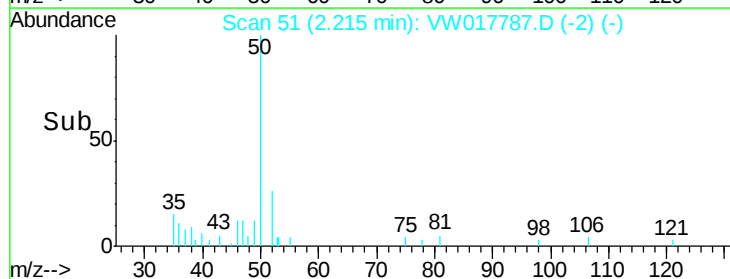
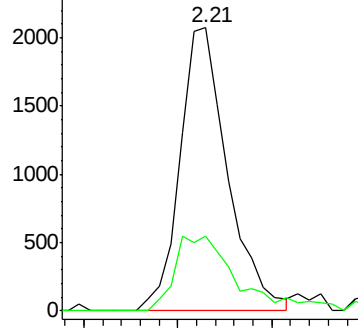
50 100

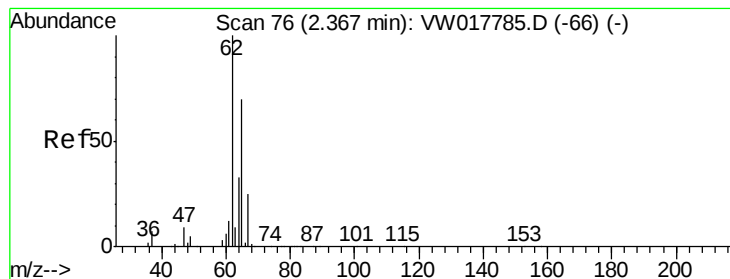
52 26.2 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 1.143 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

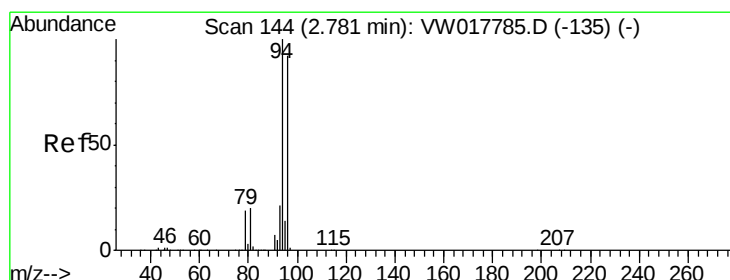
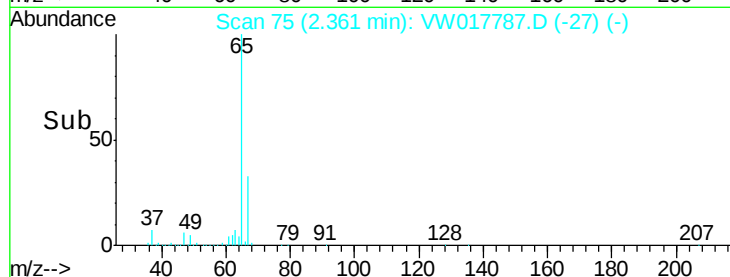
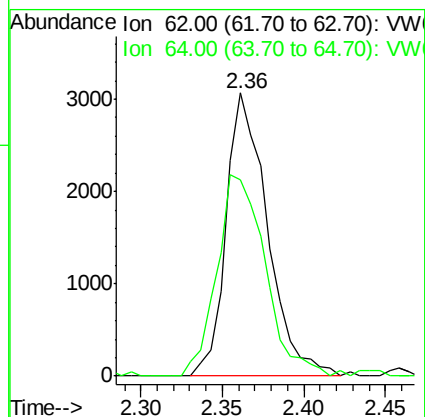
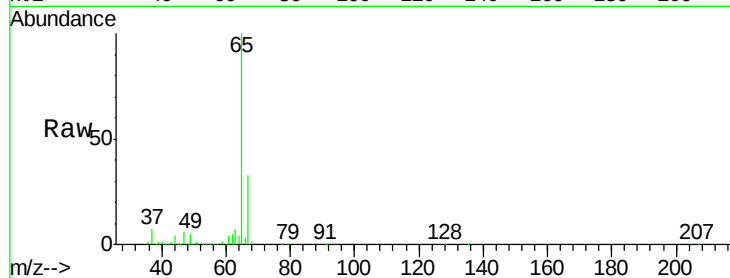
MDL-SOIL-QT1-2021-02

Tot Ion: 62 Resp: 5411

Ion Ratio Lower Upper

62 100

64 69.2 24.2 45.0#



#6

Bromomethane

Concen: 0.997 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW017787.D

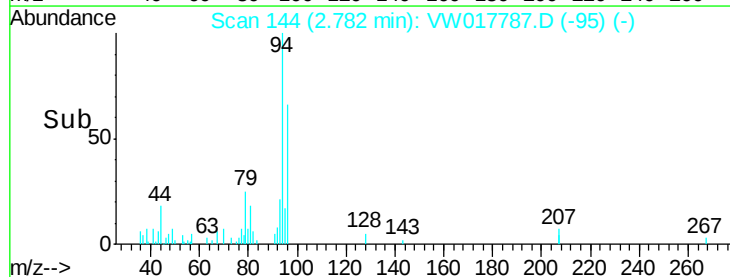
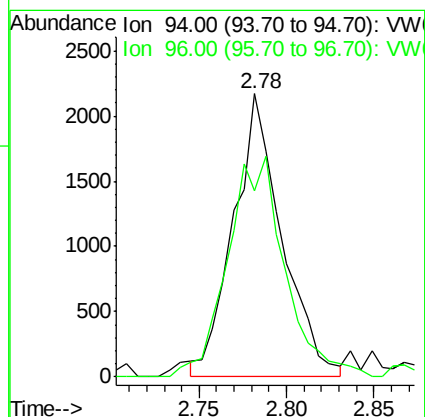
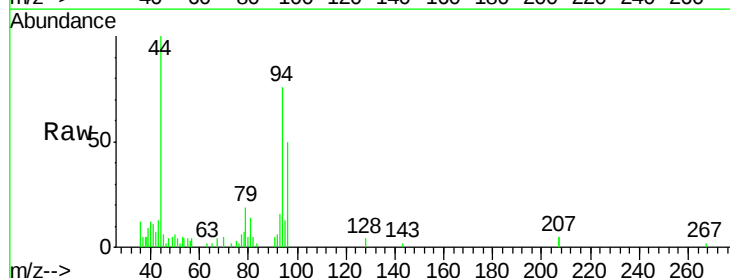
Acq: 04 Jan 2021 14:37

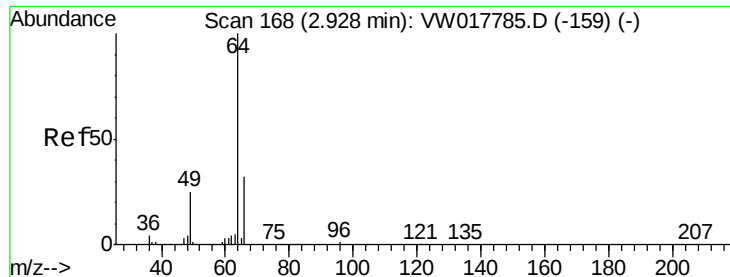
Tgt Ion: 94 Resp: 4174

Ion Ratio Lower Upper

94 100

96 65.8 65.3 121.3





#8

Chloroethane

Concen: 1.069 ug/L m

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

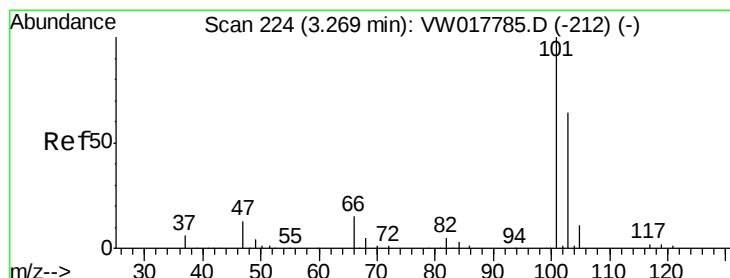
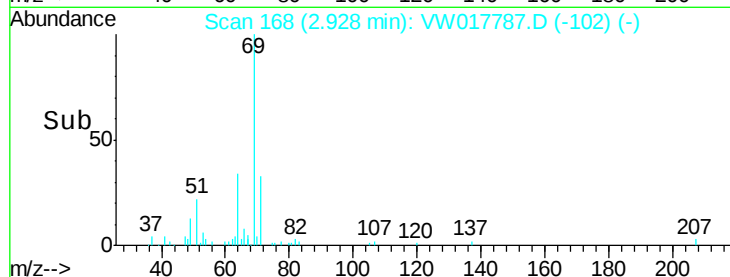
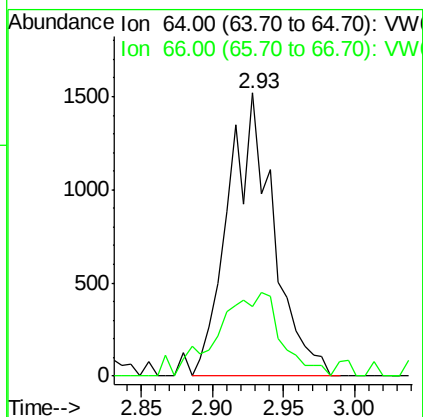
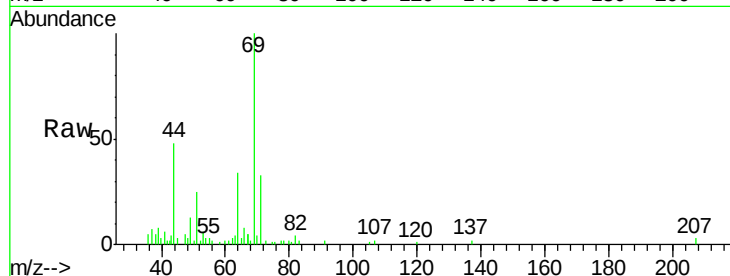
MDL-SOIL-QT1-2021-02

Tot Ion: 64 Resp: 3346

Ion Ratio Lower Upper

64 100

66 24.5 23.4 43.6



#9

Trichlorofluoromethane

Concen: 0.864 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW017787.D

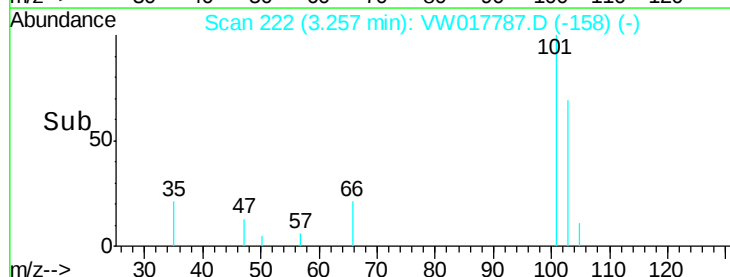
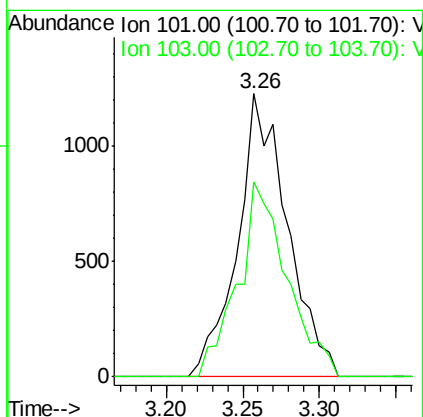
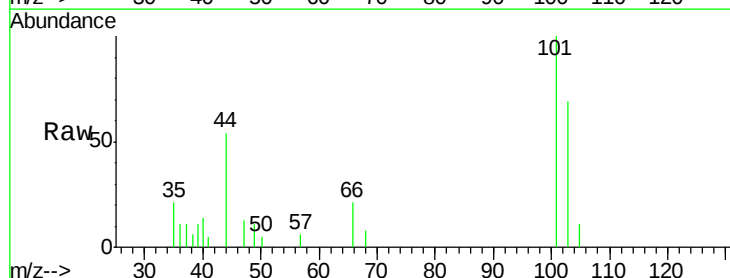
Acq: 04 Jan 2021 14:37

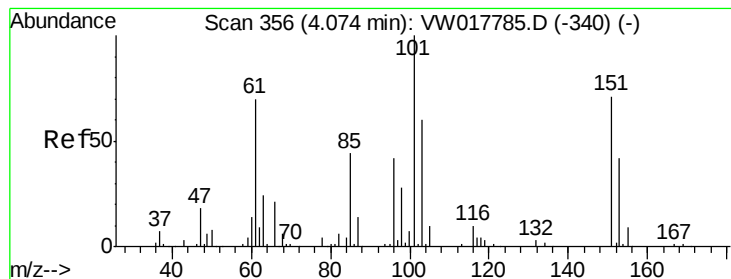
Tgt Ion: 101 Resp: 2781

Ion Ratio Lower Upper

101 100

103 67.8 51.0 76.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.345 ug/L m

RT: 4.07 min Scan# 355

Delta R.T. -0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

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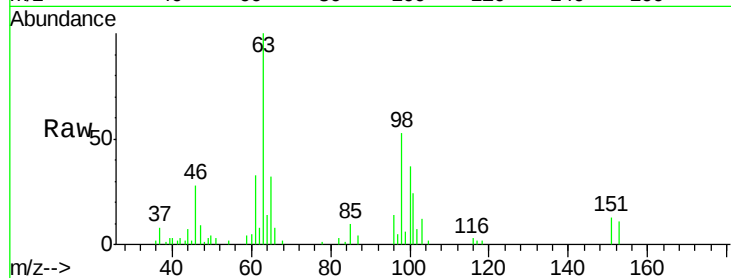
Tot Ion:101 Resp: 4960

Ion Ratio Lower Upper

101 100

85 12.8 38.2 57.2#

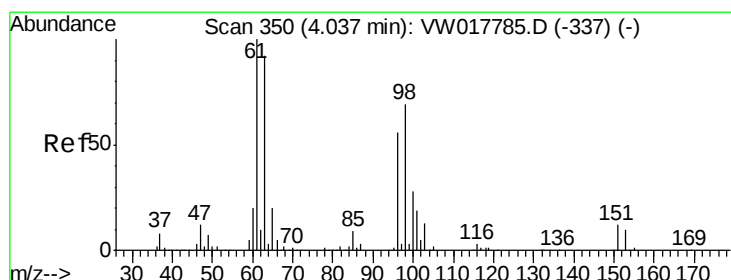
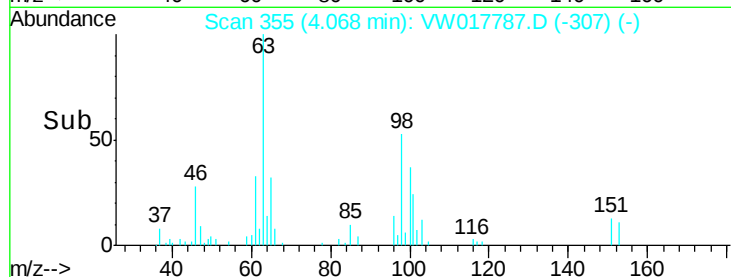
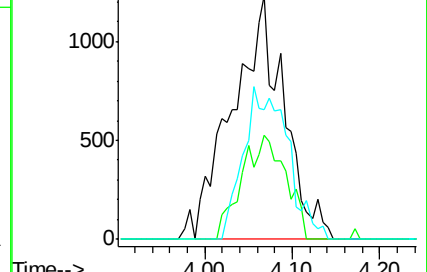
151 0.0 56.6 85.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 1.338 ug/L m

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

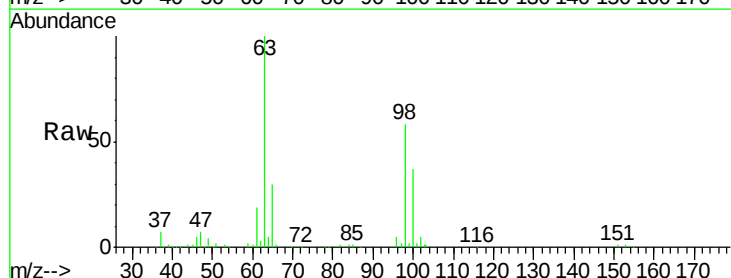
Tgt Ion: 96 Resp: 4679

Ion Ratio Lower Upper

96 100

61 414.3 118.1 219.3#

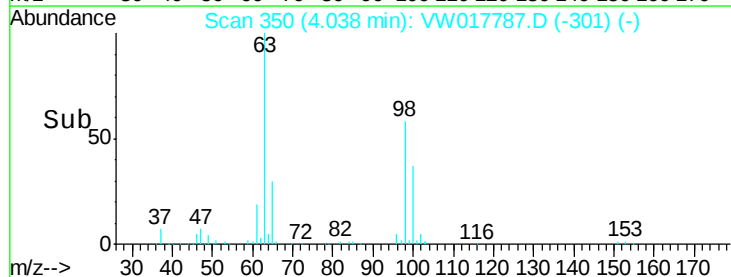
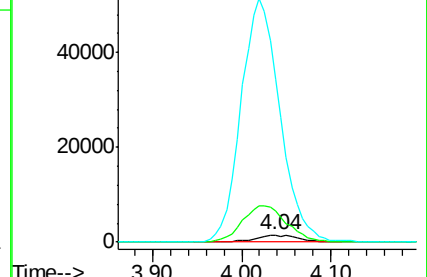
63 2179.5 83.7 155.5#

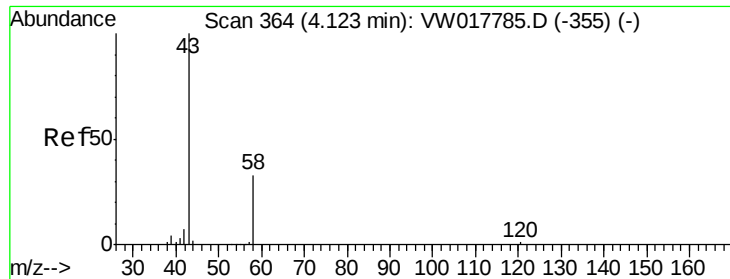


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 4.085 ug/L m

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

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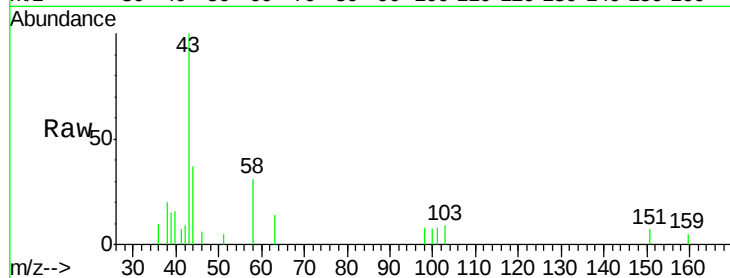
MDL-SOIL-QT1-2021-02

Tot Ion: 43 Resp: 3260

Ion Ratio Lower Upper

43 100

58 14.3 0.0 53.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

1000

800

600

400

200

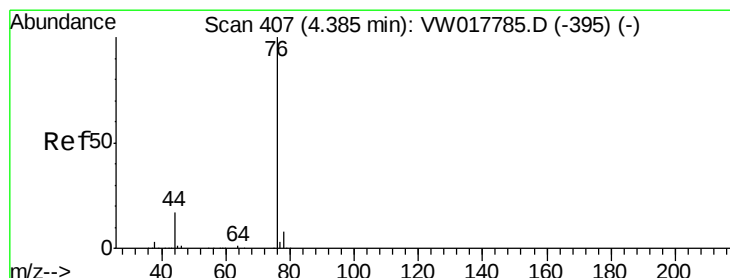
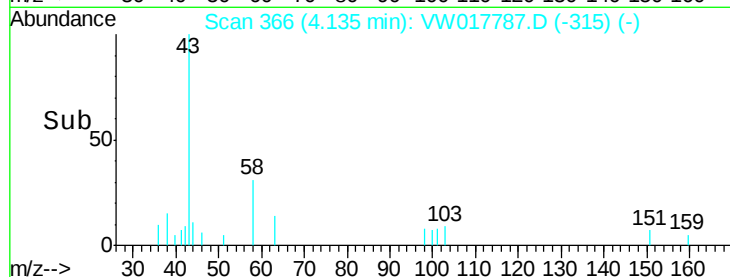
0

Time-->

4.00

4.10

4.20



#14

Carbon disulfide

Concen: 0.897 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW017787.D

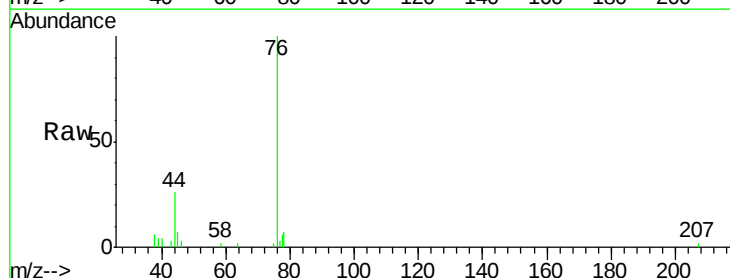
Acq: 04 Jan 2021 14:37

Tgt Ion: 76 Resp: 8996

Ion Ratio Lower Upper

76 100

78 13.5 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

3000

2000

1000

0

Time-->

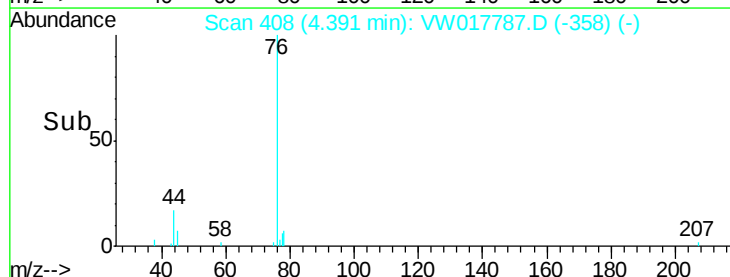
4.30

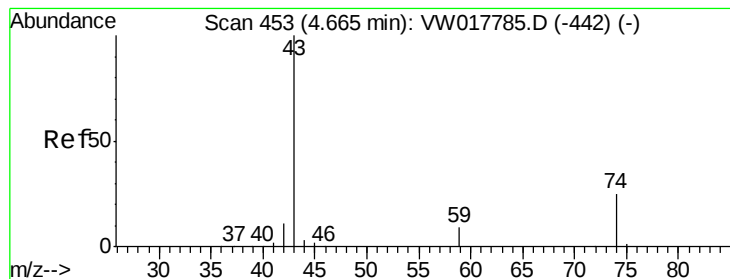
4.35

4.40

4.45

4.50





#15

Methyl Acetate

Concen: 1.264 ug/L m

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

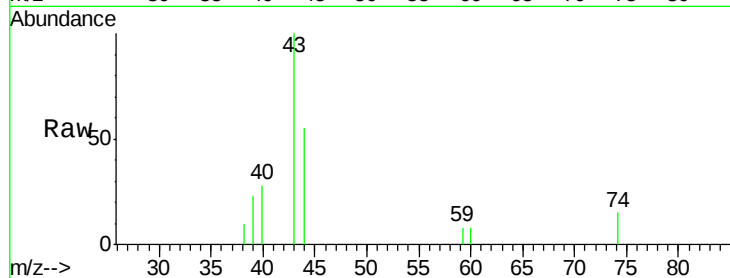
MDL-SOIL-QT1-2021-02

Tot Ion: 43 Resp: 2178

Ion Ratio Lower Upper

43 100

74 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

800

600

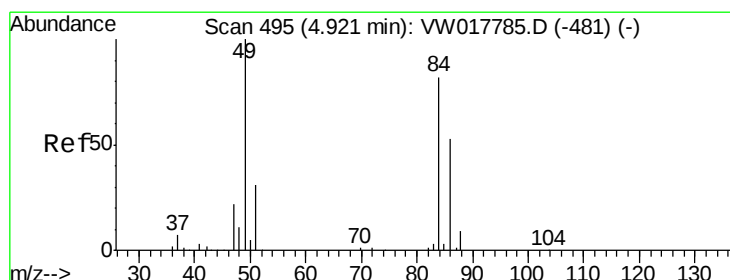
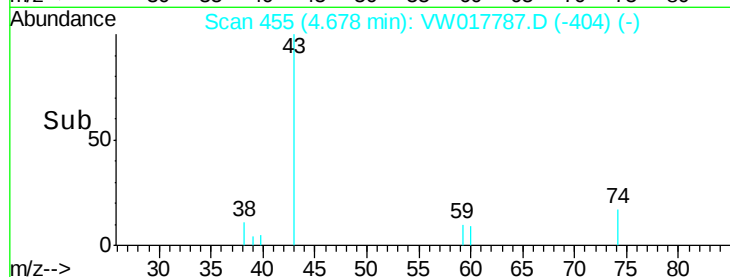
400

200

0

4.60 4.65 4.70 4.75 4.80

Time-->



#16

Methylene chloride

Concen: 1.682 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

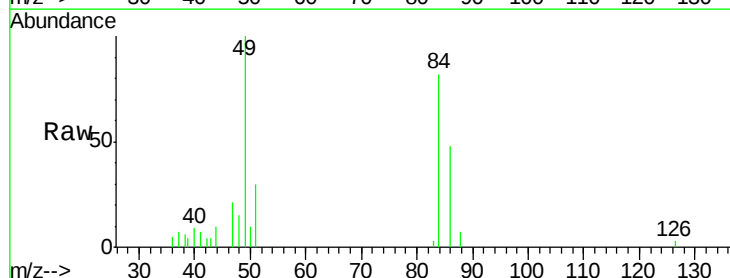
Tgt Ion: 84 Resp: 7423

Ion Ratio Lower Upper

84 100

86 57.9 45.3 84.1

49 121.7 86.6 160.8



Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 86.00 (85.70 to 86.70): VW

Ion 49.00 (48.70 to 49.70): VW

3000

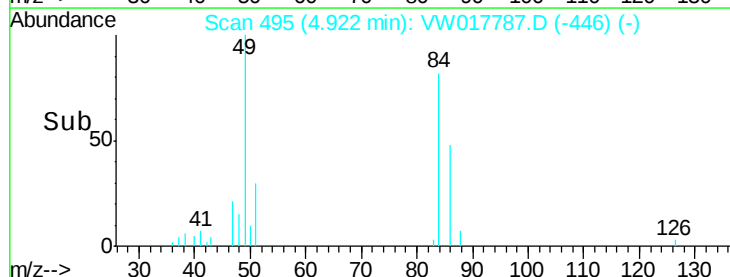
2000

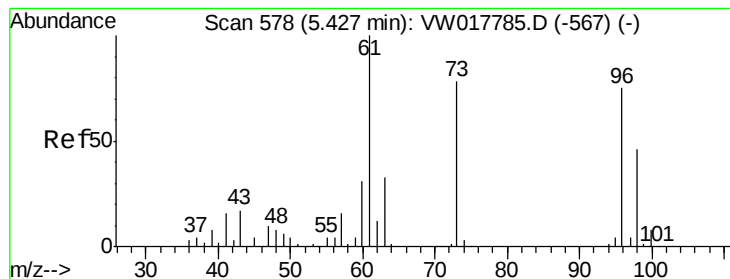
1000

0

4.80 4.85 4.90 4.95 5.00

Time-->





#17

trans-1,2-Dichloroethene

Concen: 1.032 ug/L m

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT1-2021-02

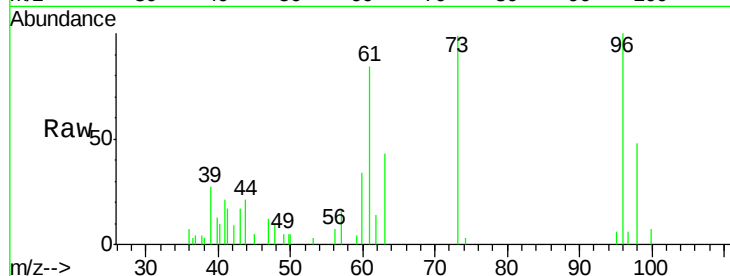
Tot Ion: 96 Resp: 3867

Ion Ratio Lower Upper

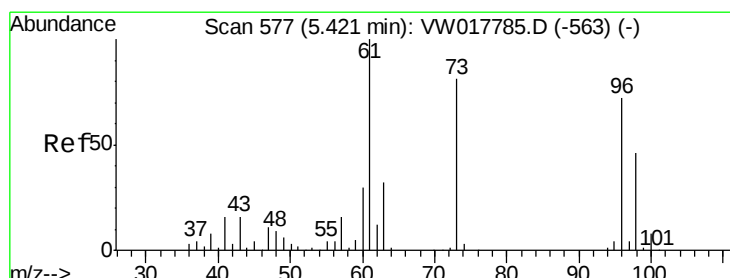
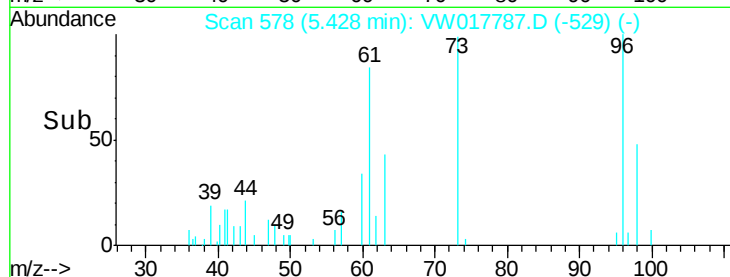
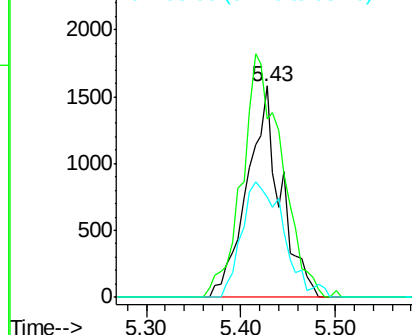
96 100

61 84.4 98.3 182.7#

98 47.6 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



#18

Methyl tert-butyl Ether

Concen: 1.136 ug/L m

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

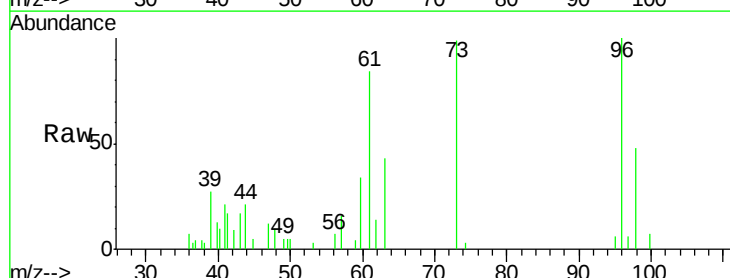
Tgt Ion: 73 Resp: 5424

Ion Ratio Lower Upper

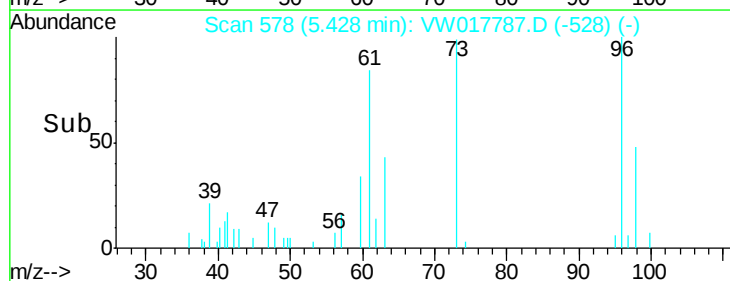
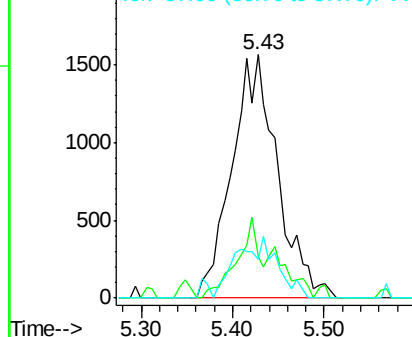
73 100

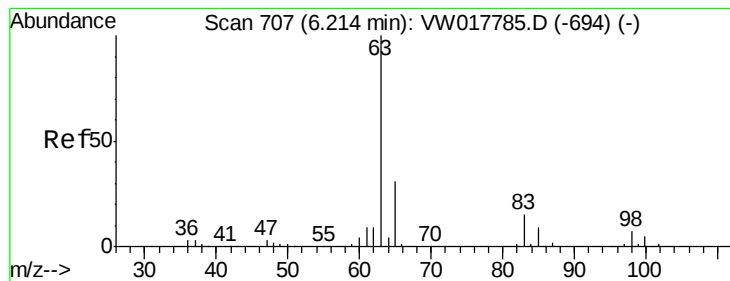
43 14.6 17.7 26.5#

57 12.6 17.0 25.4#



Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW





#19

1,1-Dichloroethane

Concen: 1.000 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT1-2021-02

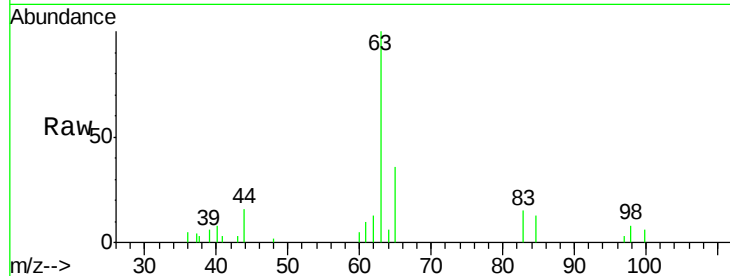
Tot Ion: 63 Resp: 6641

Ion Ratio Lower Upper

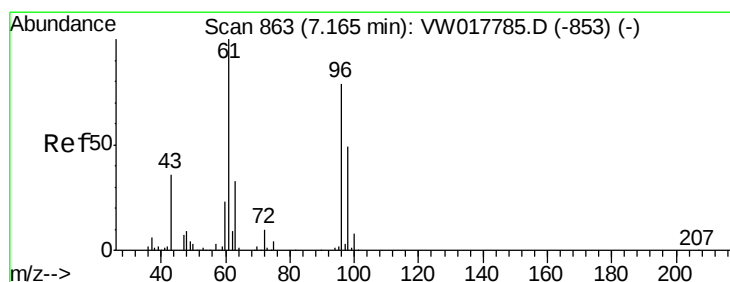
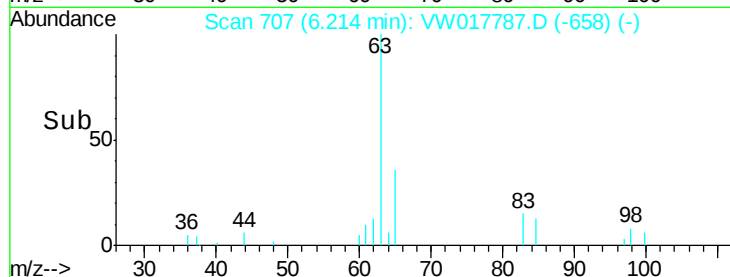
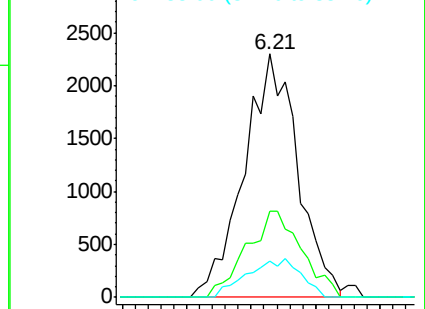
63 100

65 35.6 22.9 42.5

83 14.7 10.2 19.0



Abundance Ion 63.00 (62.70 to 63.70): VW
Ion 65.00 (64.70 to 65.70): VW
Ion 83.00 (82.70 to 83.70): VW



#20

cis-1,2-Dichloroethene

Concen: 1.052 ug/L m

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

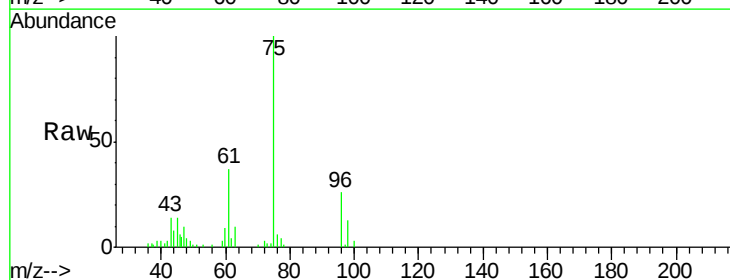
Tgt Ion: 96 Resp: 4219

Ion Ratio Lower Upper

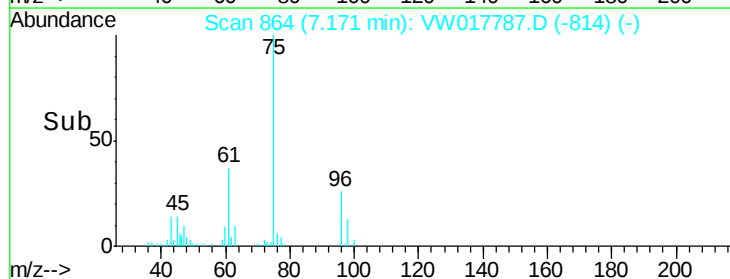
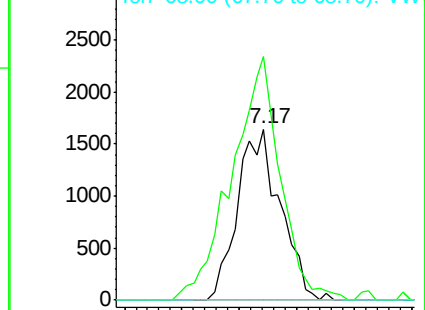
96 100

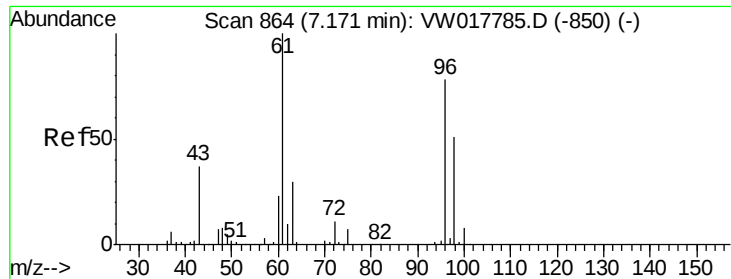
61 142.6 88.5 164.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 68.00 (67.70 to 68.70): VW





#22

2-Butanone

Concen: 3.736 ug/L m

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

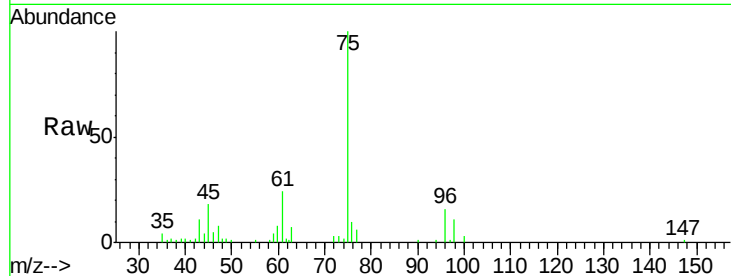
MDL-SOIL-QT1-2021-02

Tot Ion: 43 Resp: 4954

Ion Ratio Lower Upper

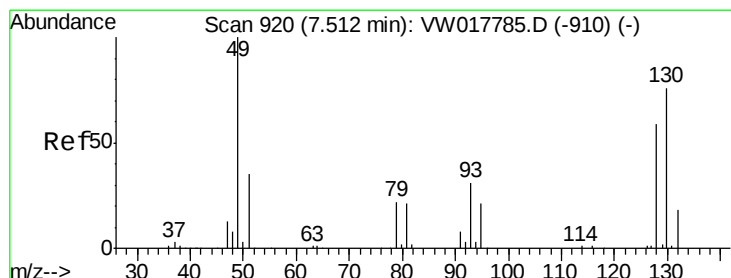
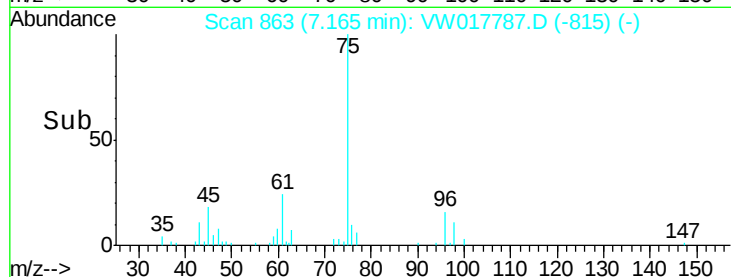
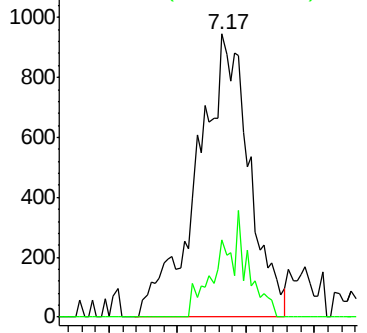
43 100

72 7.7 14.9 44.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#23

Bromochloromethane

Concen: 1.017 ug/L m

RT: 7.51 min Scan# 919

Delta R.T. -0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Tgt Ion: 128 Resp: 1867

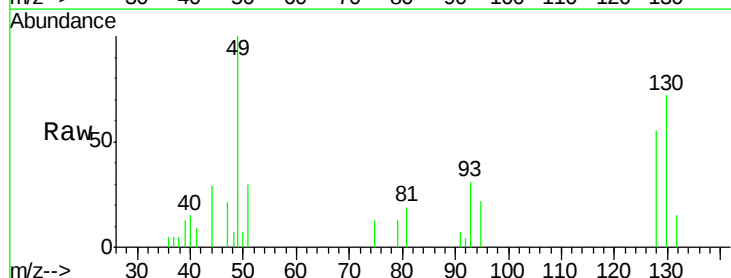
Ion Ratio Lower Upper

128 100

49 180.3 116.3 215.9

130 130.1 82.4 153.0

51 53.6 42.6 64.0

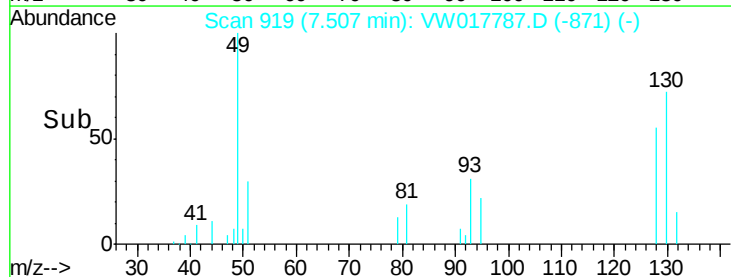
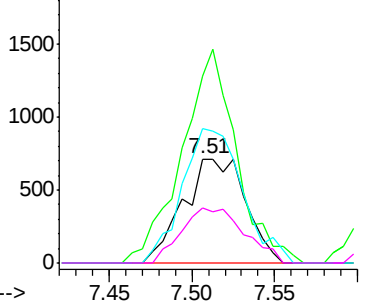


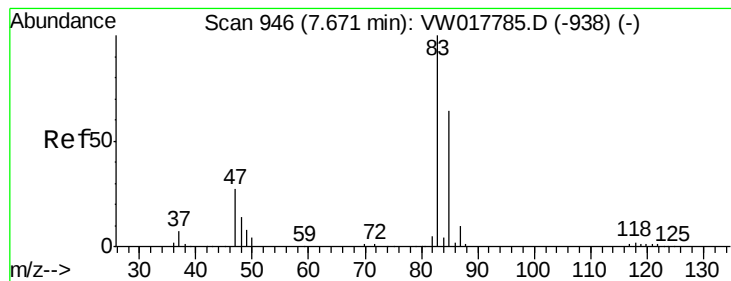
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 1.210 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

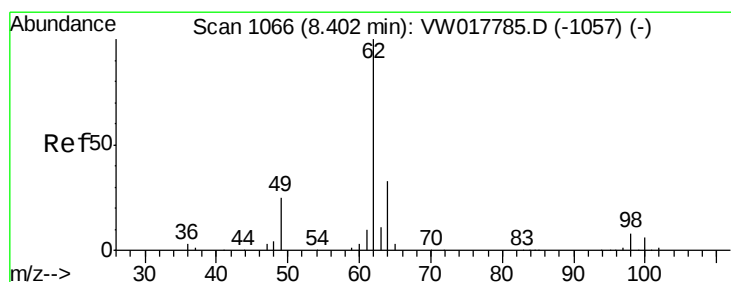
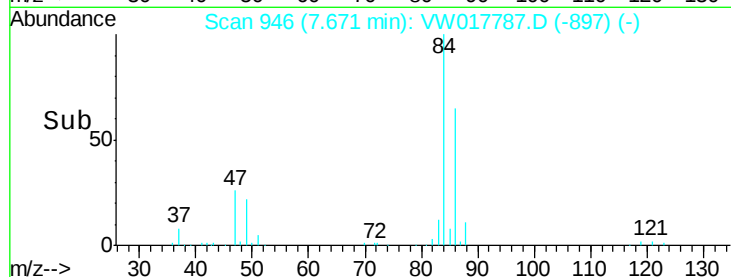
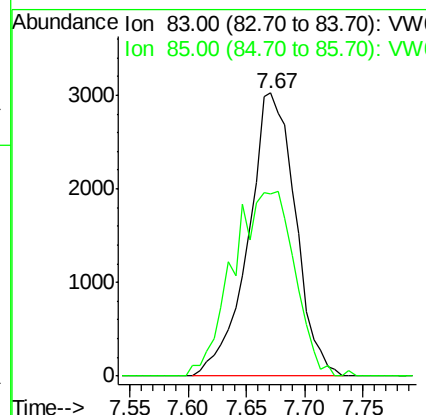
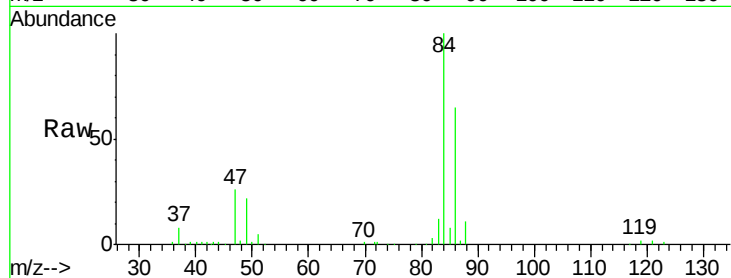
MDL-SOIL-QT1-2021-02

Tot Ion: 83 Resp: 8520

Ion Ratio Lower Upper

83 100

85 64.4 44.6 82.8



#27

1,2-Dichloroethane

Concen: 1.039 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW017787.D

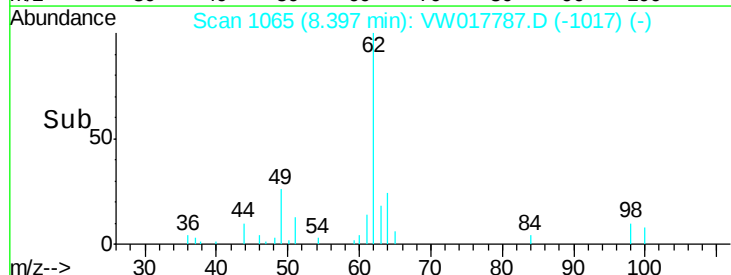
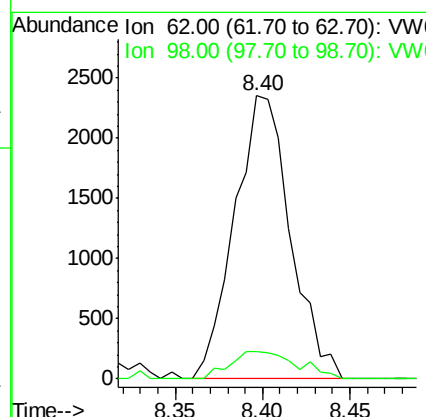
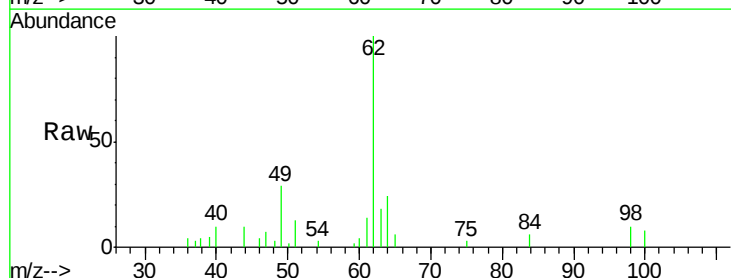
Acq: 04 Jan 2021 14:37

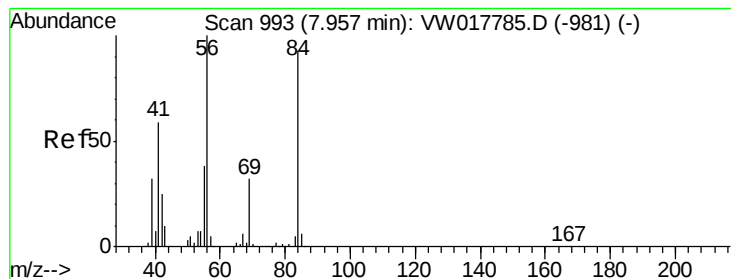
Tgt Ion: 62 Resp: 5227

Ion Ratio Lower Upper

62 100

98 9.7 6.9 10.3





#29

Cvclohexane

Concen: 0.969 ug/L

RT: 7.96 min Scan# 994

Delta R.T. 0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT1-2021-02

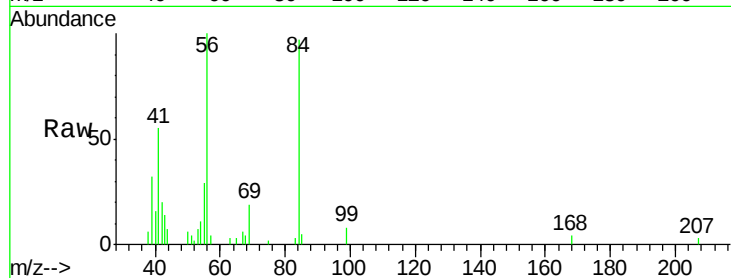
Tot Ion: 56 Resp: 5781

Ion Ratio Lower Upper

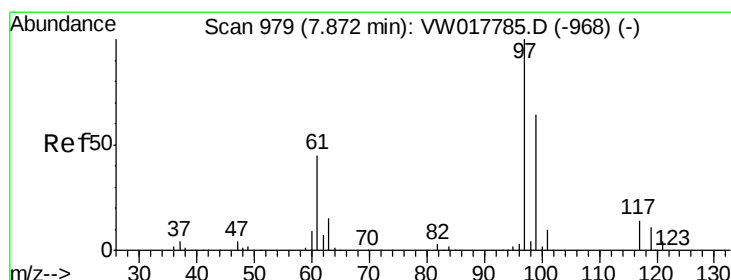
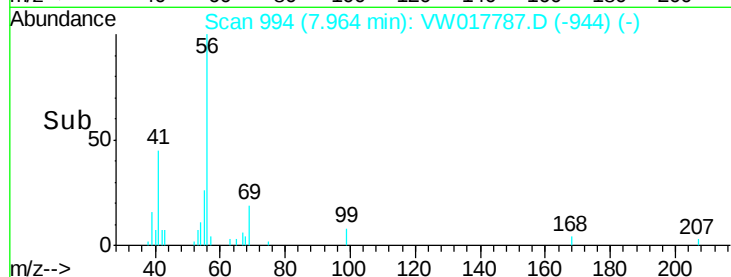
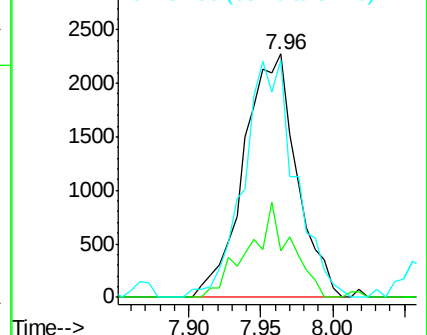
56 100

69 3.5 24.5 36.7#

84 52.1 75.0 112.4#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#30

1,1,1-Trichloroethane

Concen: 1.068 ug/L m

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

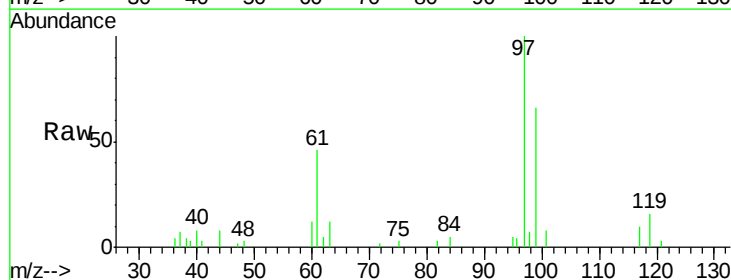
Tgt Ion: 97 Resp: 6239

Ion Ratio Lower Upper

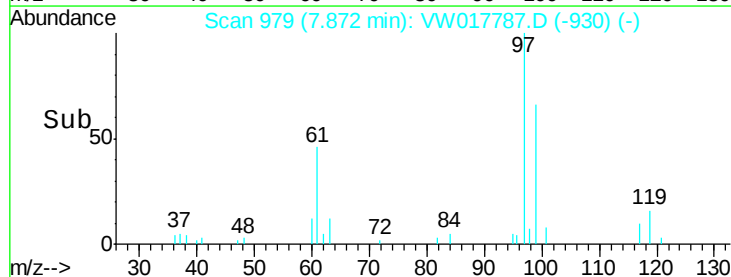
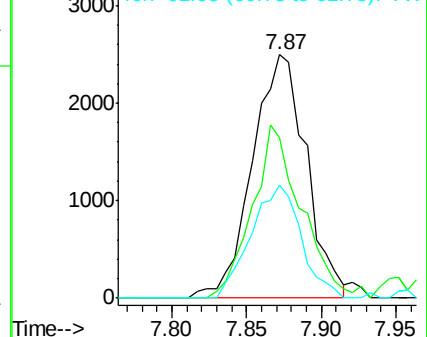
97 100

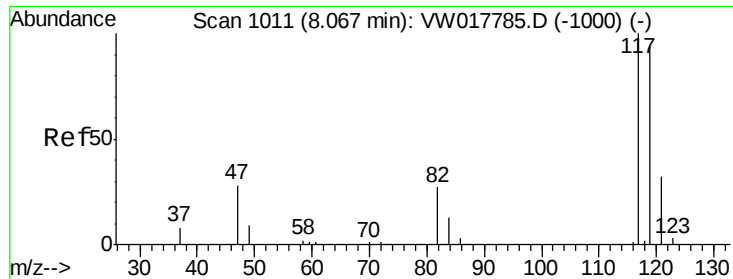
99 64.7 51.4 77.2

61 43.2 37.8 56.6



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.05 (60.75 to 61.75): VW

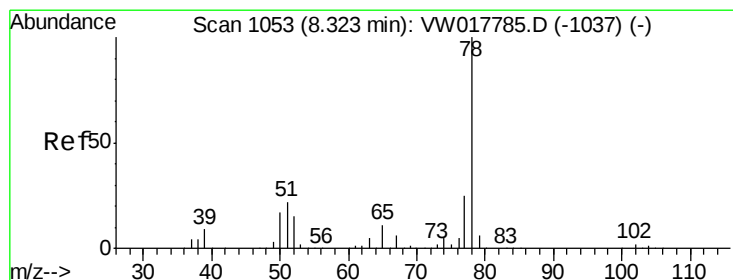
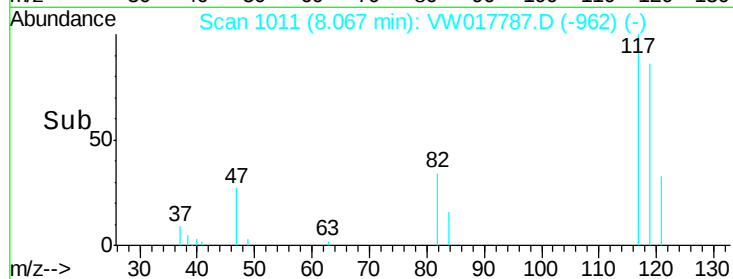
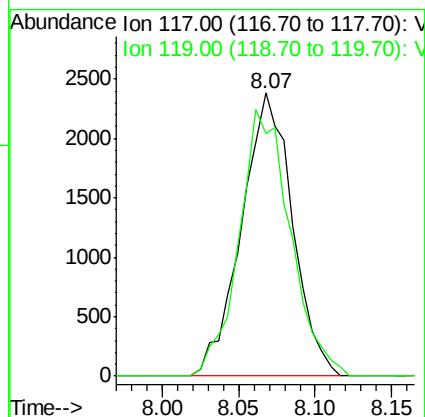
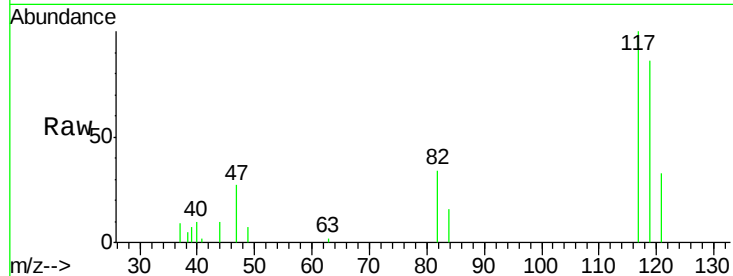




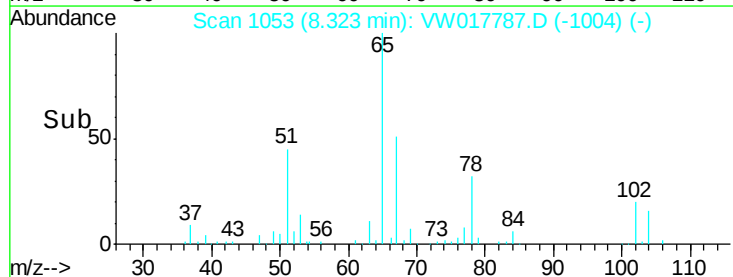
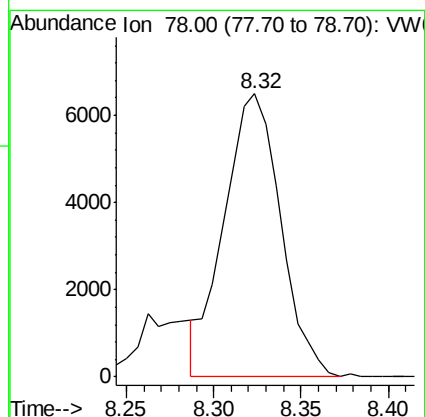
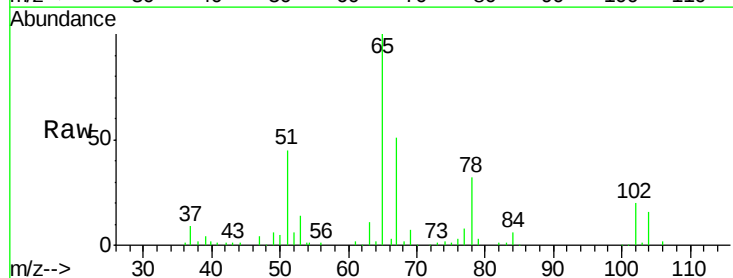
#31
 Carbon tetrachloride
 Concen: 1.005 ug/L
 RT: 8.07 min Scan# 1011
 Delta R.T. 0.00 min
 Lab File: VW017787.D
 Acq: 04 Jan 2021 14:37

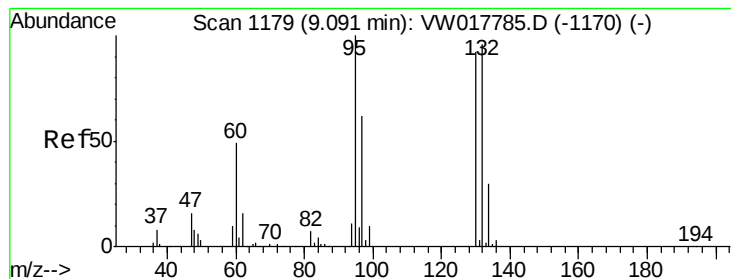
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-QT1-2021-02

Tot Ion:117 Resp: 5515
 Ion Ratio Lower Upper
 117 100
 119 95.0 76.5 114.7



#33
 Benzene
 Concen: 0.981 ug/L
 RT: 8.32 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VW017787.D
 Acq: 04 Jan 2021 14:37
 Tgt Ion: 78 Resp: 14560





#34

Trichloroethene

Concen: 1.025 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT1-2021-02

Tot Ion: 95 Resp: 4153

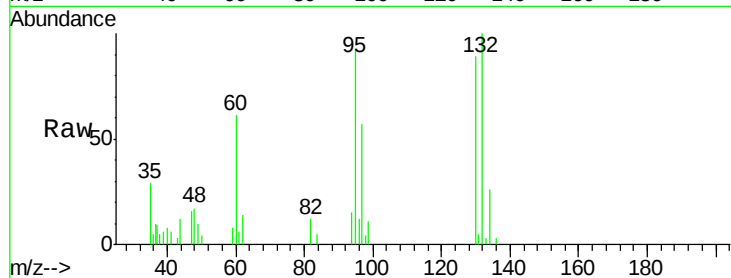
Ion Ratio Lower Upper

95 100

97 61.7 47.3 87.8

132 108.2 71.0 131.8

130 96.8 65.1 120.9

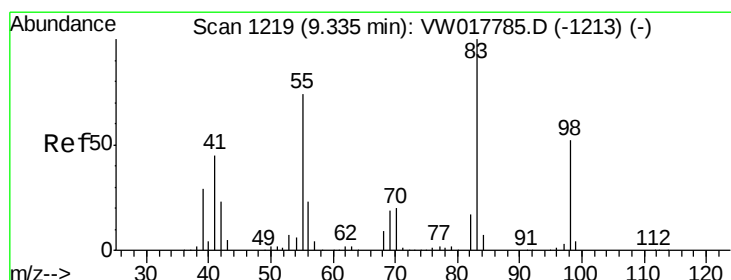
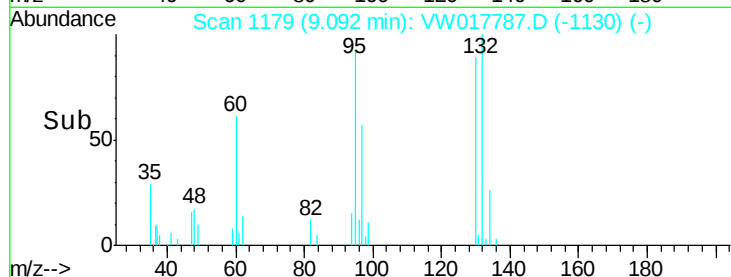
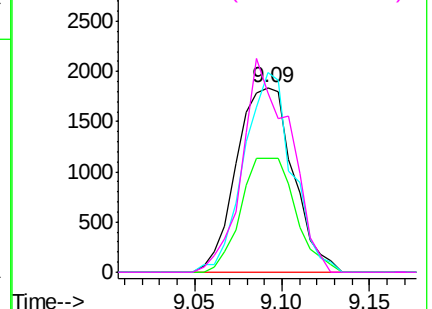


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 0.957 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

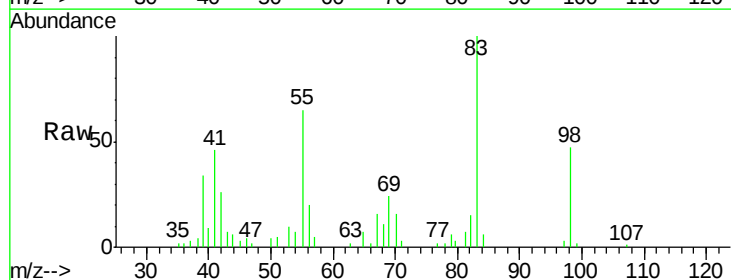
Tgt Ion: 83 Resp: 6641

Ion Ratio Lower Upper

83 100

55 79.8 58.9 88.3

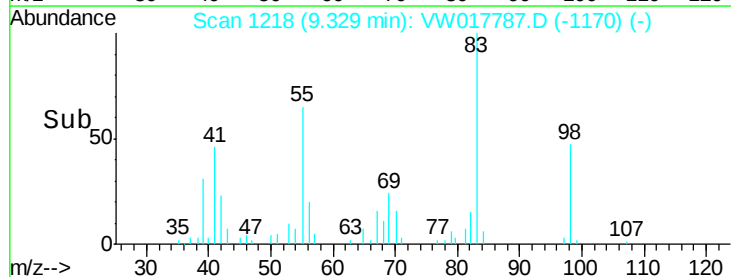
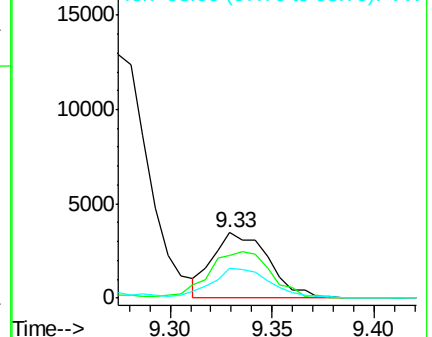
98 47.8 40.1 60.1

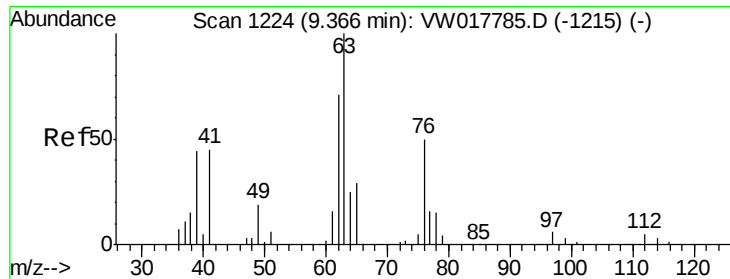


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

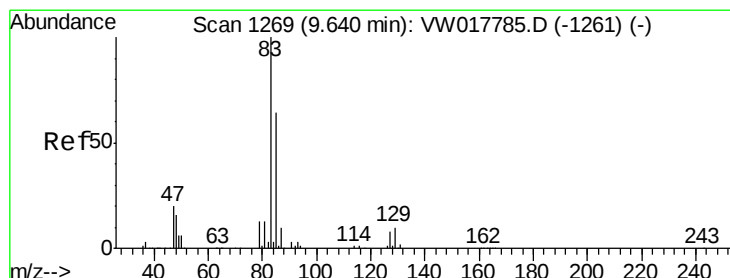
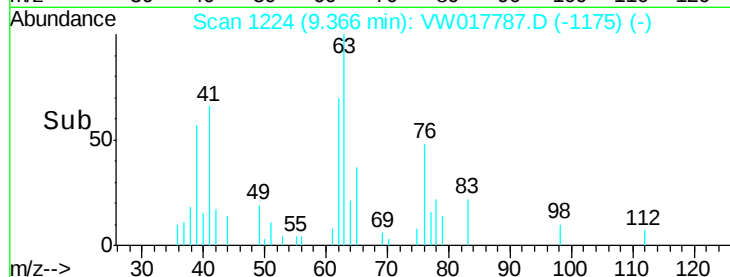
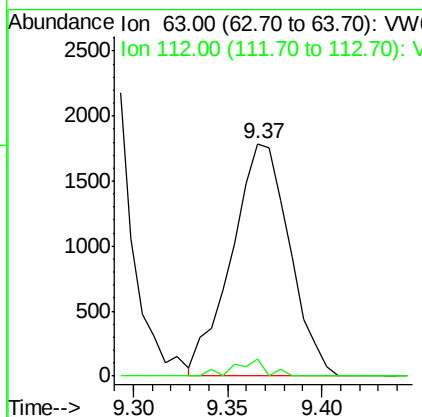
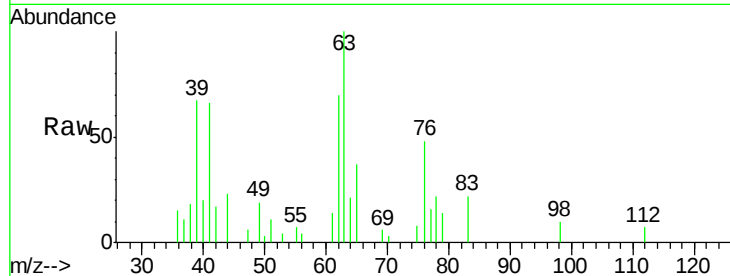




#37
 1,2-Dichloropropane
 Concen: 1.059 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW017787.D
 Acq: 04 Jan 2021 14:37

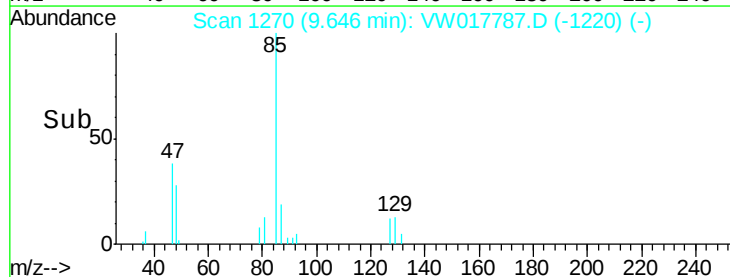
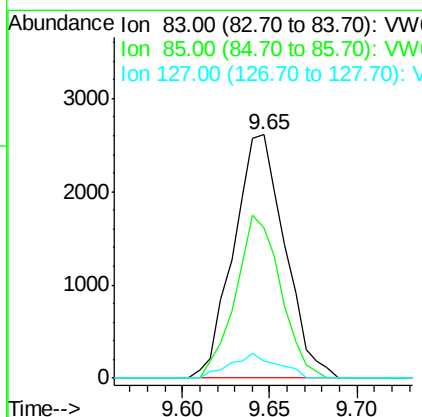
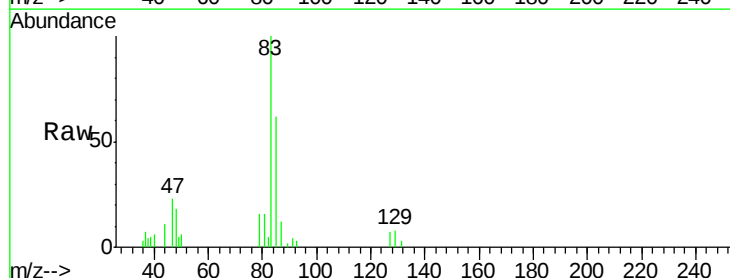
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-QT1-2021-02

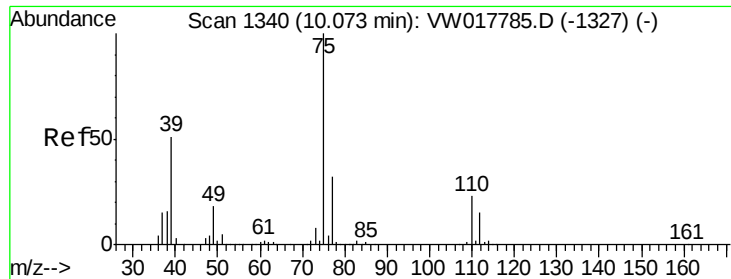
Tot Ion: 63 Resp: 3805
 Ion Ratio Lower Upper
 63 100
 112 2.9 3.9 5.9#



#38
 Bromodichloromethane
 Concen: 1.045 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VW017787.D
 Acq: 04 Jan 2021 14:37

Tgt Ion: 83 Resp: 5302
 Ion Ratio Lower Upper
 83 100
 85 61.8 42.3 78.5
 127 7.2 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 0.901 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

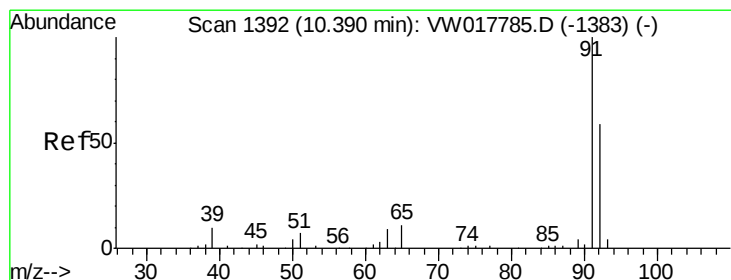
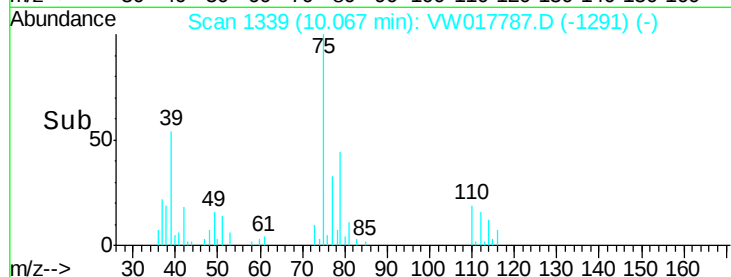
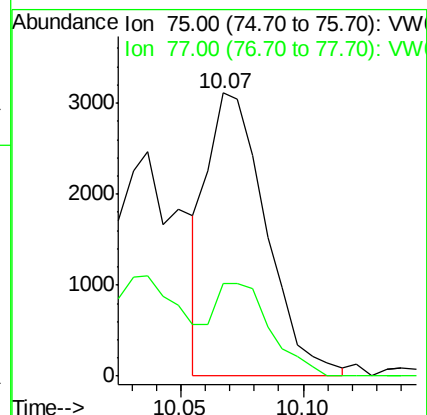
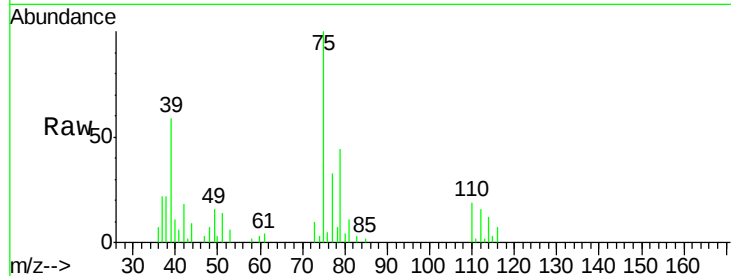
MDL-SOIL-QT1-2021-02

Tot Ion: 75 Resp: 5168

Ion Ratio Lower Upper

75 100

77 32.7 22.6 42.0



#42

Toluene

Concen: 1.000 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW017787.D

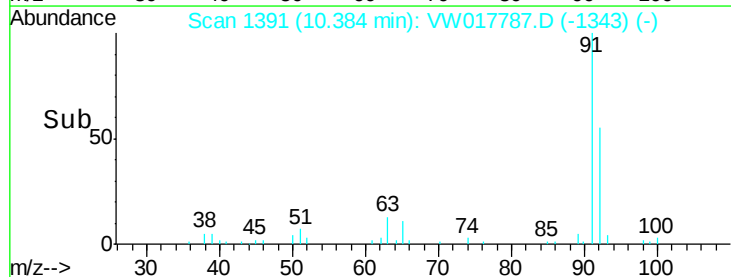
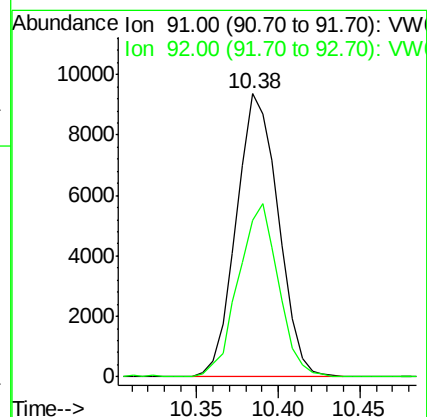
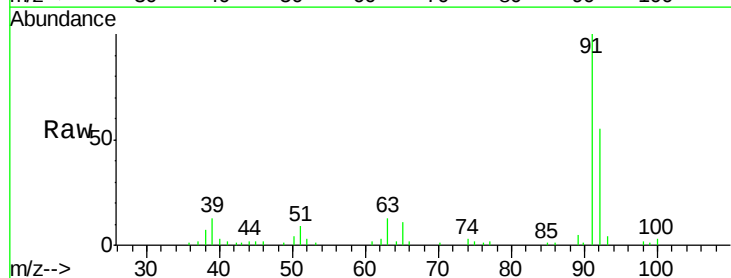
Acq: 04 Jan 2021 14:37

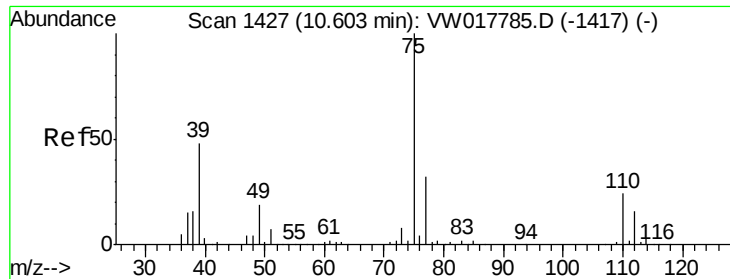
Tgt Ion: 91 Resp: 16810

Ion Ratio Lower Upper

91 100

92 55.4 39.5 73.3





#44

trans-1,3-Dichloropropene

Concen: 0.868 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

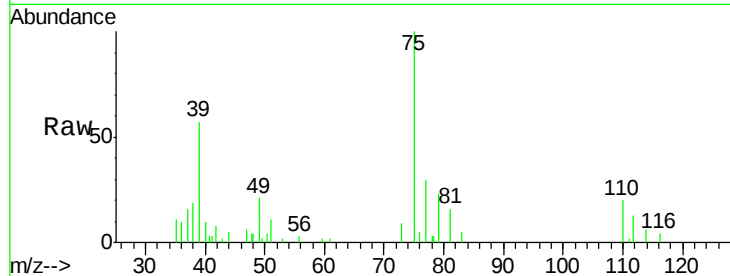
MDL-SOIL-QT1-2021-02

Tot Ion: 75 Resp: 4537

Ion Ratio Lower Upper

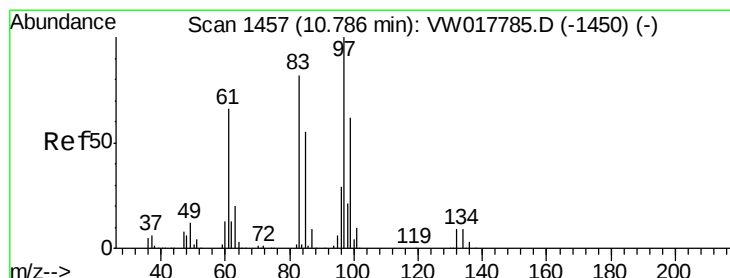
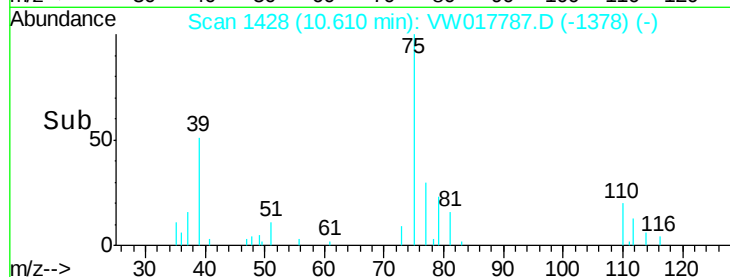
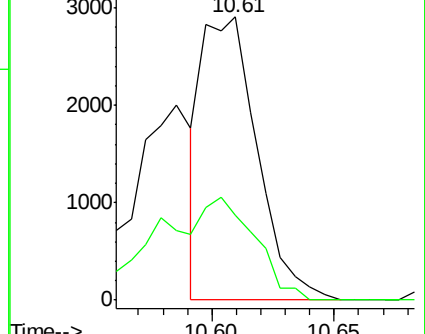
75 100

77 30.1 21.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#45

1,1,2-Trichloroethane

Concen: 0.967 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Tgt Ion: 97 Resp: 2914

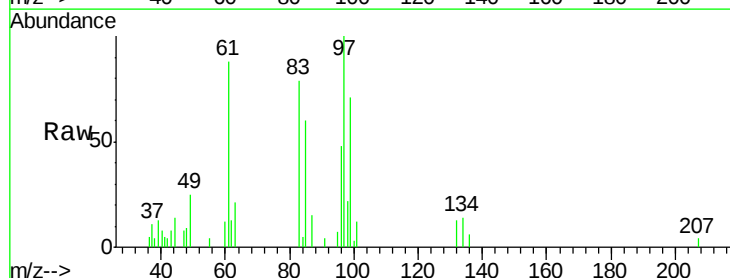
Ion Ratio Lower Upper

97 100

99 71.2 45.1 83.7

83 78.7 58.1 107.9

85 60.0 37.3 69.3

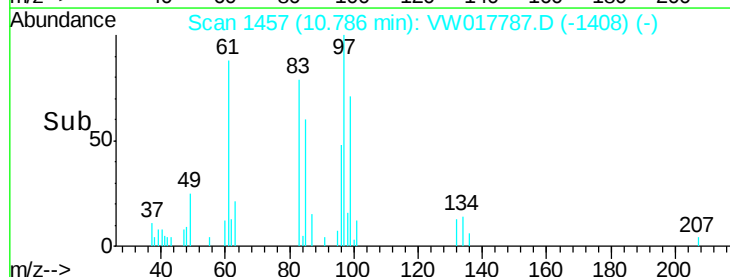
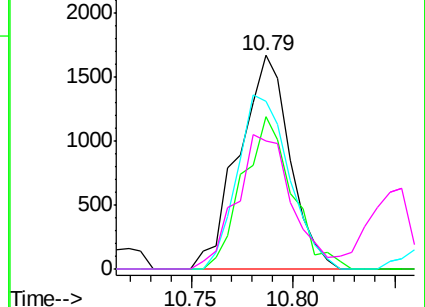


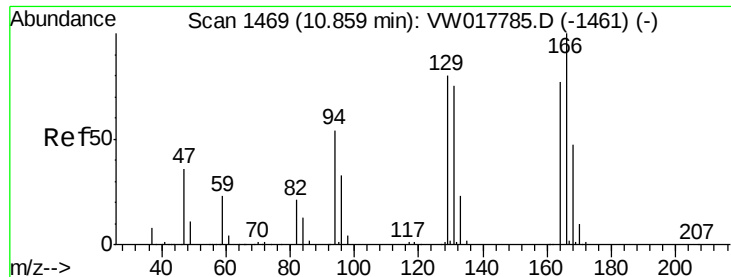
Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#46

Tetrachloroethene

Concen: 0.971 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT1-2021-02

Tot Ion:164 Resp: 3014

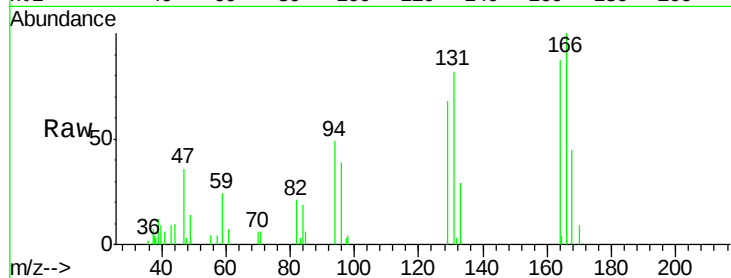
Ion Ratio Lower Upper

164 100

129 75.2 66.7 123.9

131 89.9 61.1 113.5

166 109.9 87.0 161.6

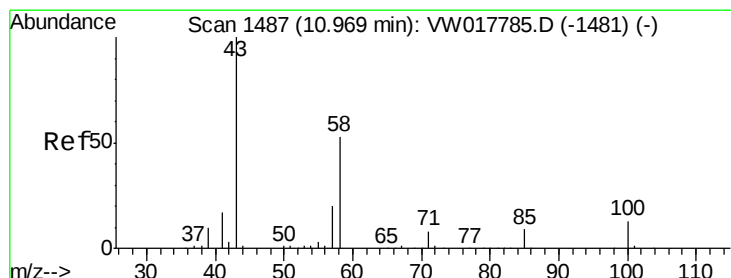
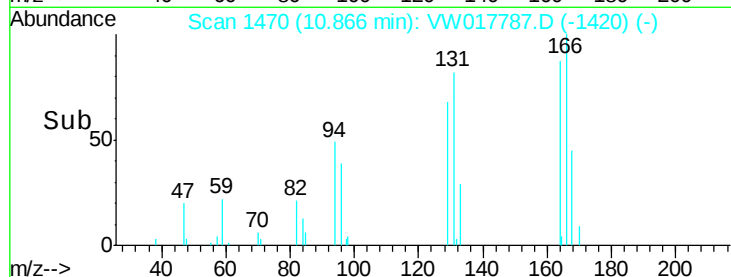
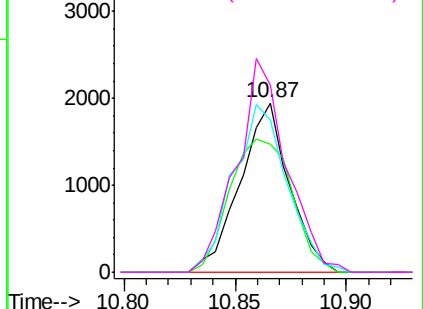


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 2.681 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Tgt Ion: 43 Resp: 4788

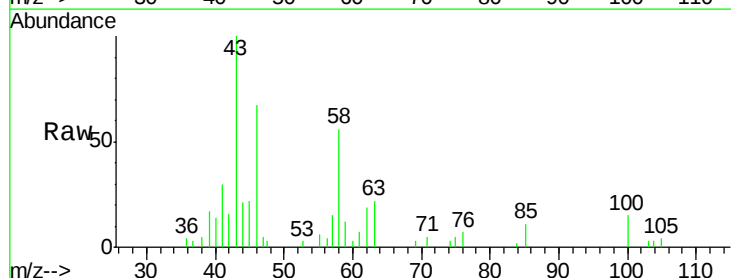
Ion Ratio Lower Upper

43 100

58 59.0 42.7 64.1

57 5.8 15.8 23.8#

100 15.6 10.0 15.0#

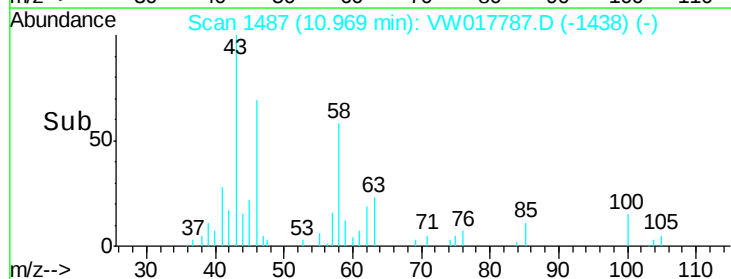
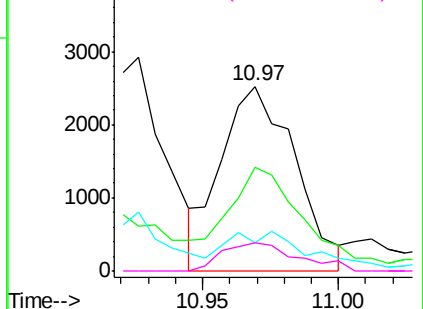


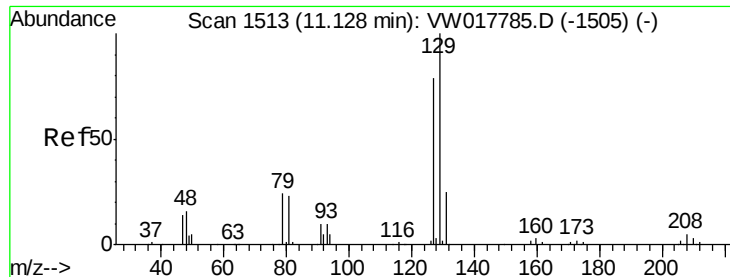
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#49

Dibromochloromethane

Concen: 0.938 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

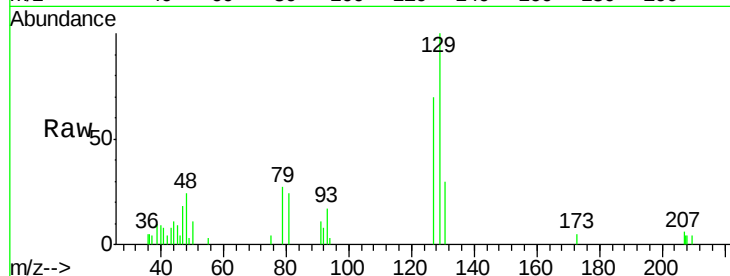
MDL-SOIL-QT1-2021-02

Tot Ion:129 Resp: 3245

Ion Ratio Lower Upper

129 100

127 70.2 51.7 95.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.13

1500

1000

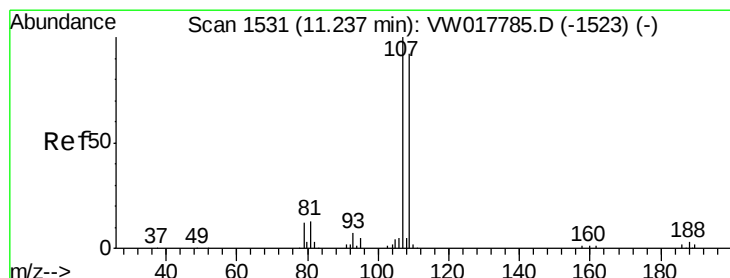
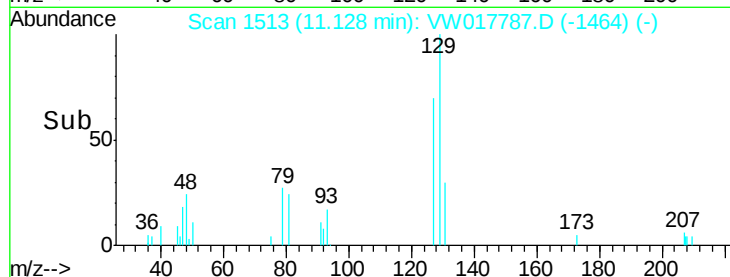
500

0

11.10

11.15

Time-->



#50

1,2-Dibromoethane

Concen: 0.968 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

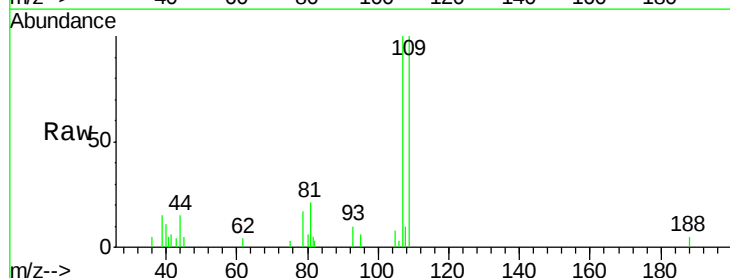
Tgt Ion:107 Resp: 2884

Ion Ratio Lower Upper

107 100

109 100.3 65.4 121.4

188 5.2 2.6 4.0#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

11.23

2000

1500

1000

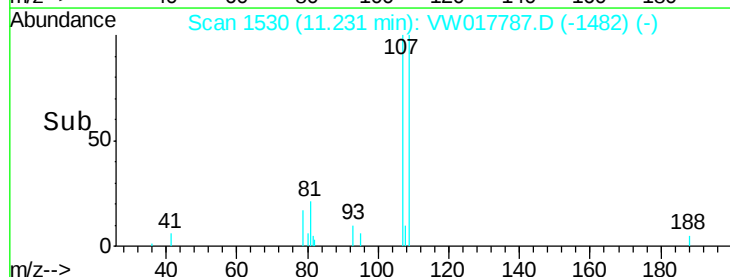
500

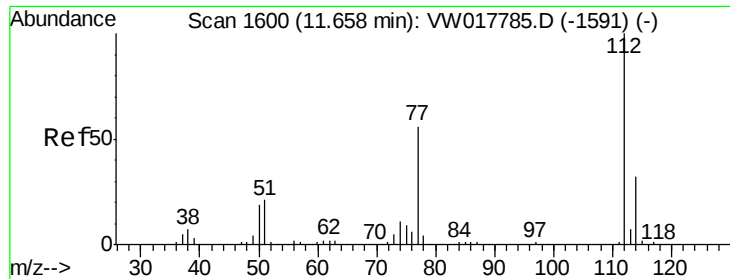
0

11.20

11.25

Time-->





#51

Chlorobenzene

Concen: 0.996 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT1-2021-02

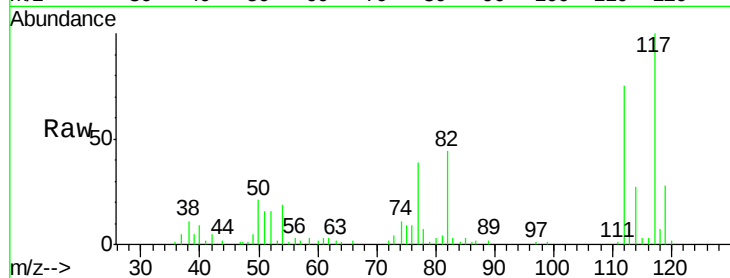
Tot Ion:112 Resp: 10623

Ion Ratio Lower Upper

112 100

114 35.9 23.4 43.6

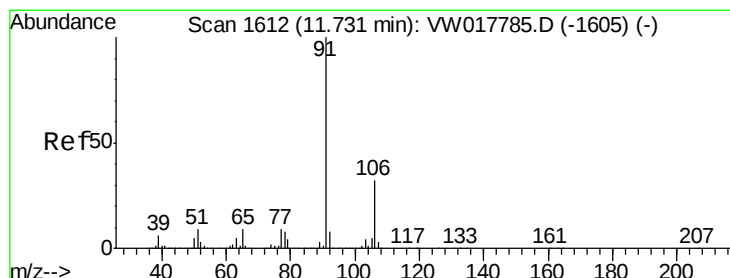
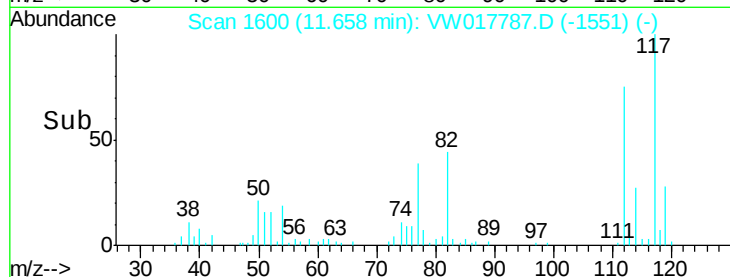
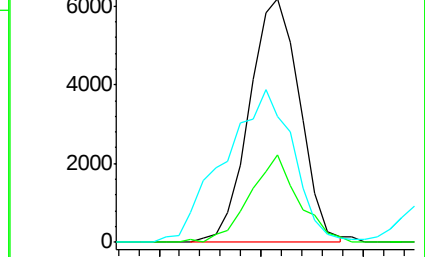
77 51.6 47.6 71.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VW



#52

Ethylbenzene

Concen: 0.965 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW017787.D

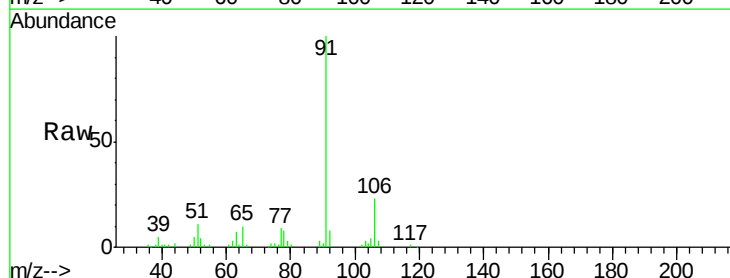
Acq: 04 Jan 2021 14:37

Tgt Ion: 91 Resp: 18513

Ion Ratio Lower Upper

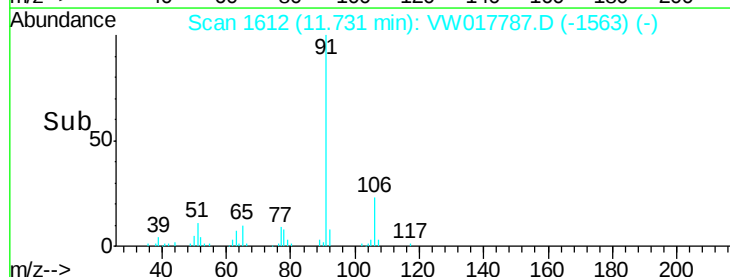
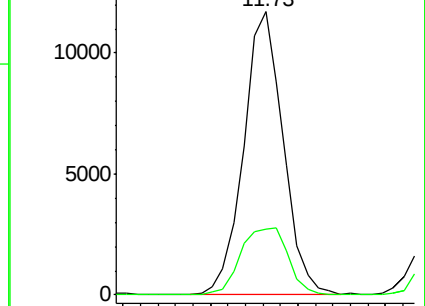
91 100

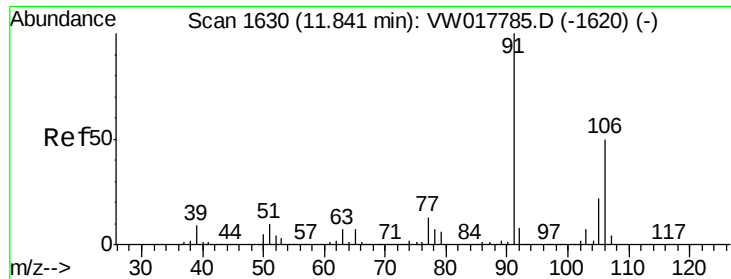
106 23.3 22.5 41.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 0.884 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

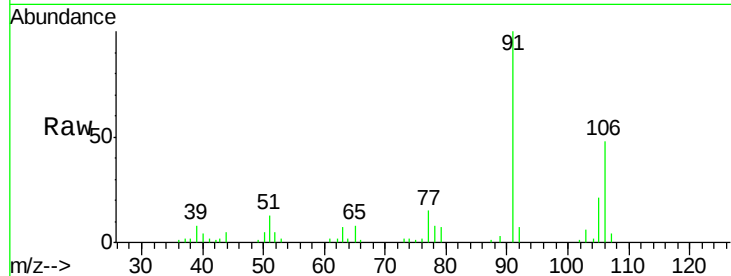
MDL-SOIL-QT1-2021-02

Tot Ion:106 Resp: 6567

Ion Ratio Lower Upper

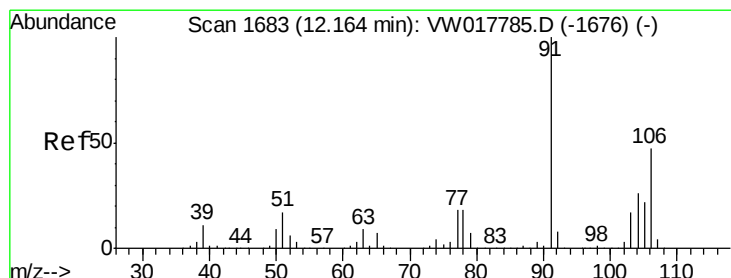
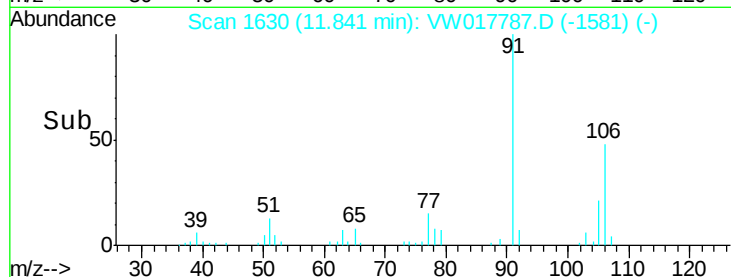
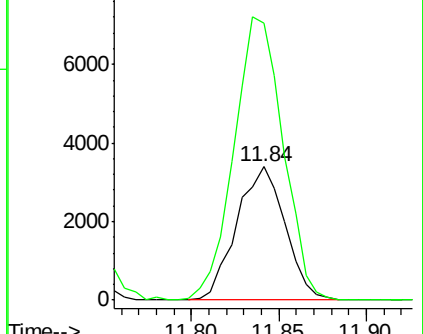
106 100

91 207.6 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#54

o-Xylene

Concen: 0.879 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW017787.D

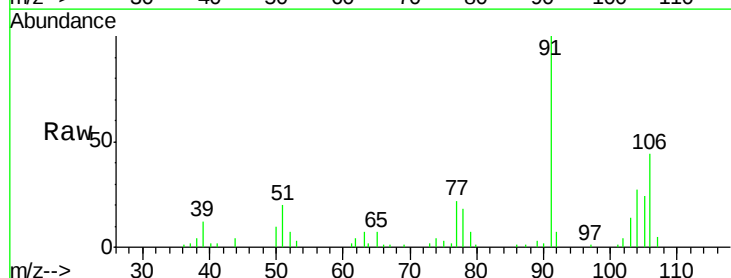
Acq: 04 Jan 2021 14:37

Tgt Ion:106 Resp: 6157

Ion Ratio Lower Upper

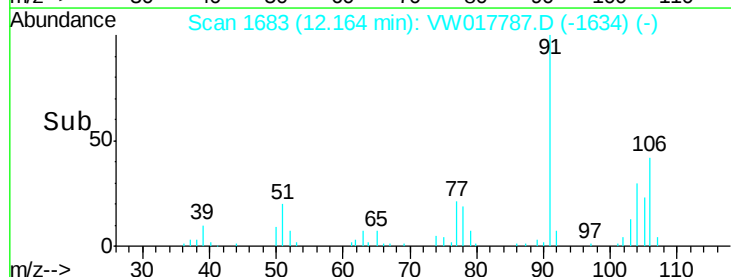
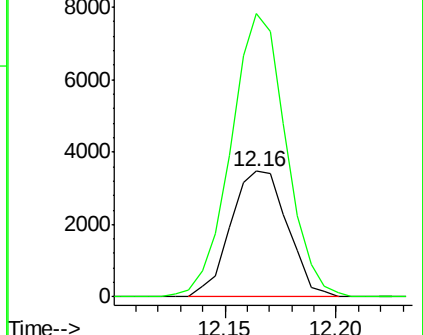
106 100

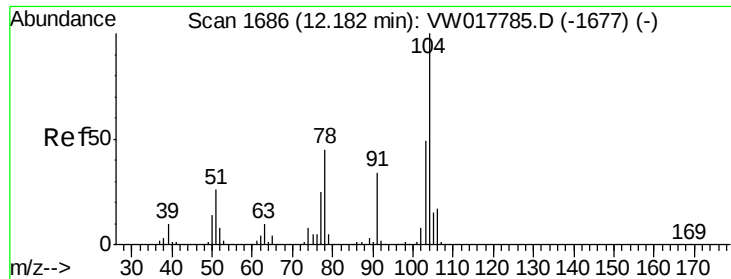
91 225.3 150.0 278.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

Stvrene

Concen: 0.820 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

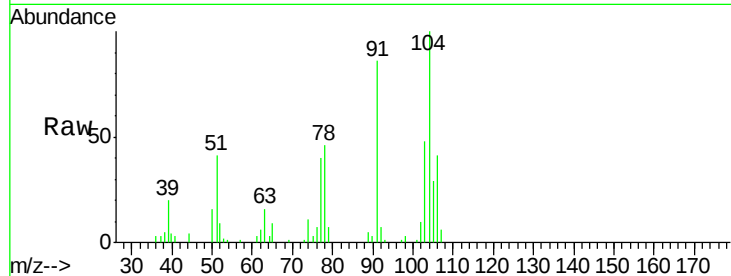
MDL-SOIL-QT1-2021-02

Tot Ion:104 Resp: 9838

Ion Ratio Lower Upper

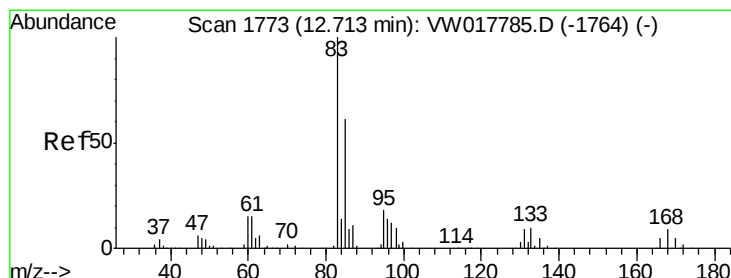
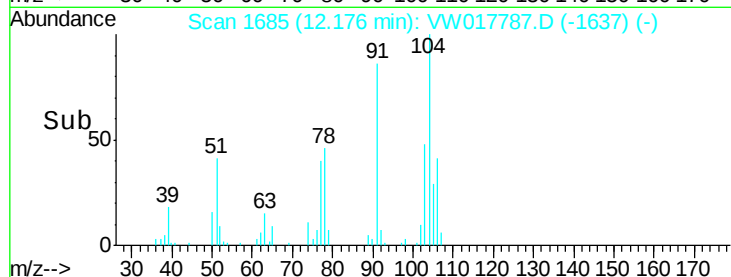
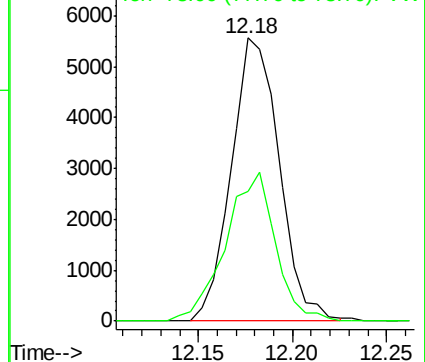
104 100

78 45.8 32.5 60.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

1,1,2,2-Tetrachloroethane

Concen: 1.107 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

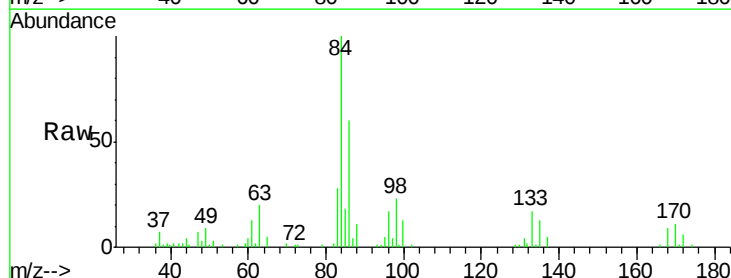
Tgt Ion: 83 Resp: 4338

Ion Ratio Lower Upper

83 100

85 63.1 44.4 82.4

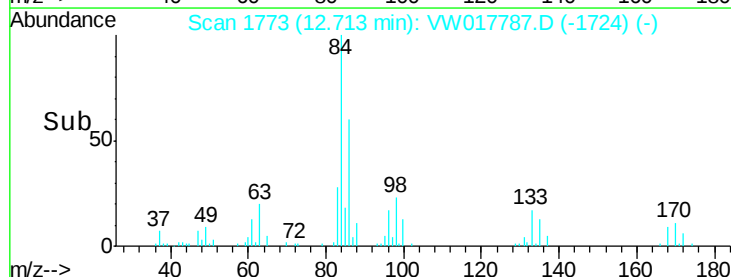
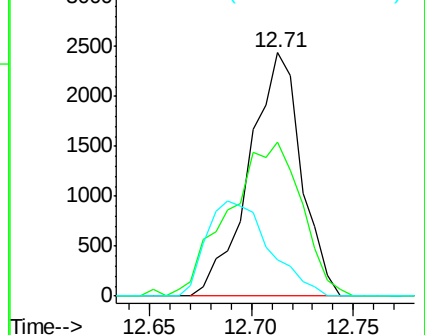
131 15.0 8.2 12.4#

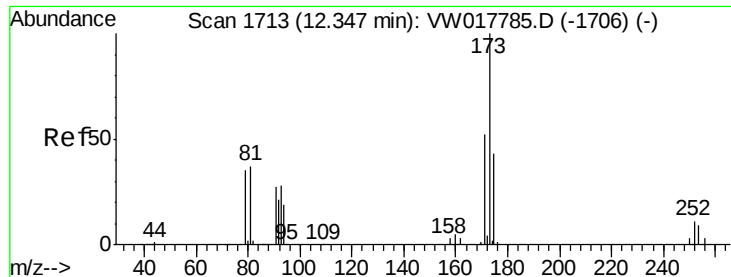


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

Bromoform

Concen: 0.859 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT1-2021-02

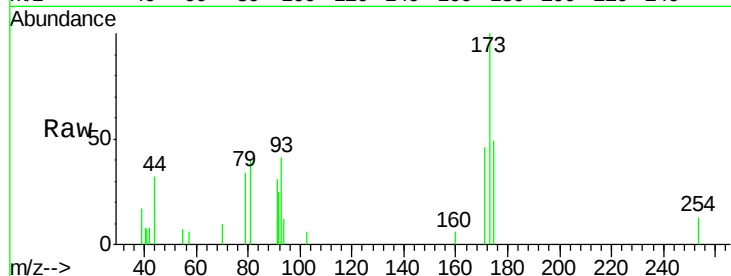
Tot Ion:173 Resp: 1562

Ion Ratio Lower Upper

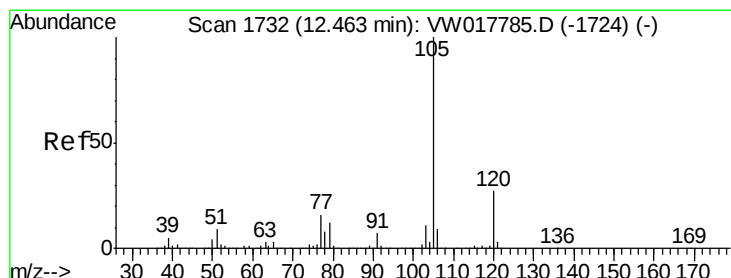
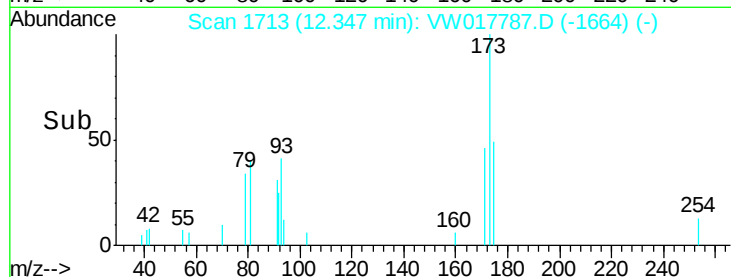
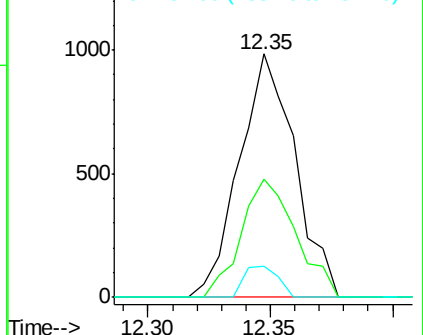
173 100

175 47.4 37.5 56.3

254 7.7 7.0 10.4



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



#60

Isopropylbenzene

Concen: 0.978 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

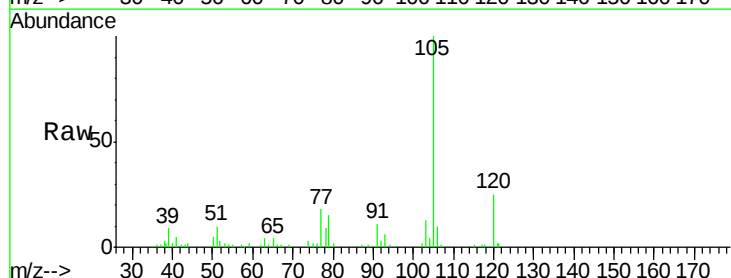
Tgt Ion:105 Resp: 17341

Ion Ratio Lower Upper

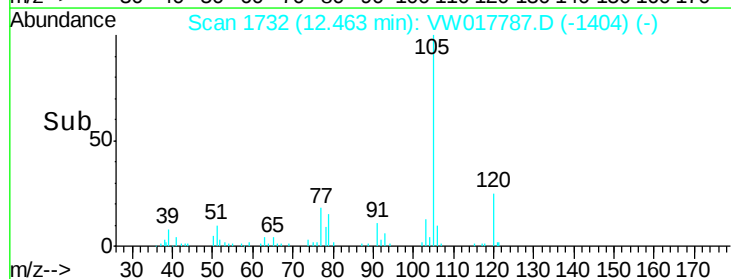
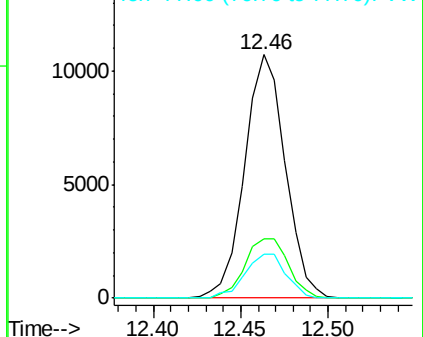
105 100

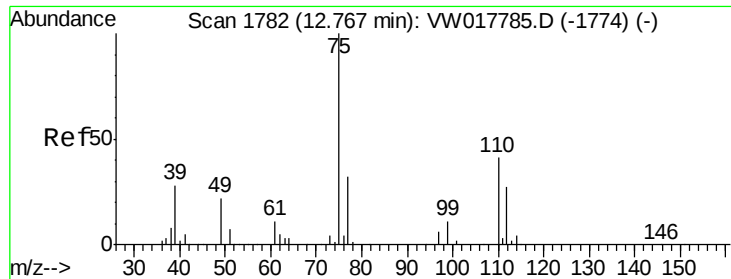
120 26.2 21.1 31.7

77 18.3 13.2 19.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V





#61

1,2,3-Trichloropropane

Concen: 1.096 ug/L

RT: 12.76 min Scan# 1781

Delta R.T. -0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT1-2021-02

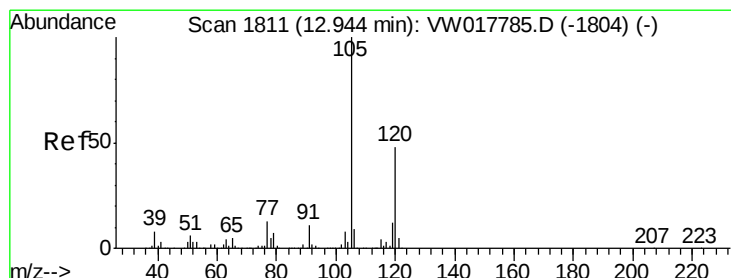
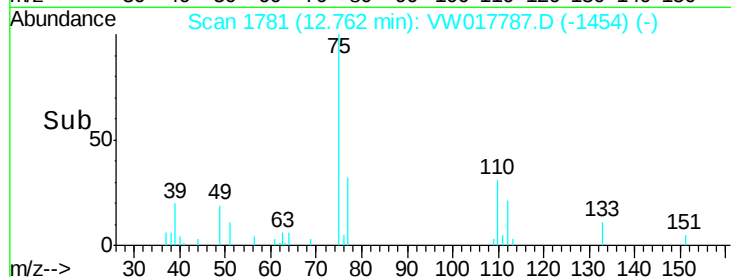
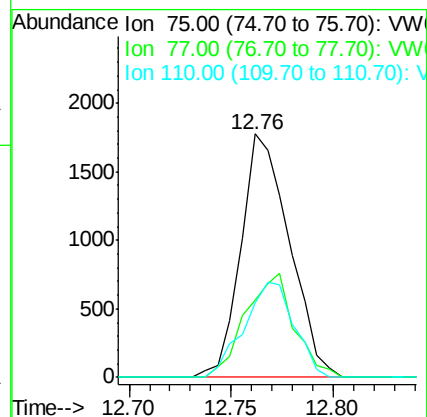
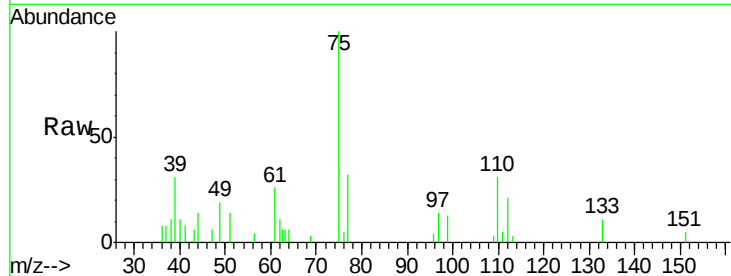
Tot Ion: 75 Resp: 2925

Ion Ratio Lower Upper

75 100

77 43.2 25.3 37.9#

110 40.7 32.6 48.8



#62

1,3,5-Trimethylbenzene

Concen: 0.943 ug/L

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW017787.D

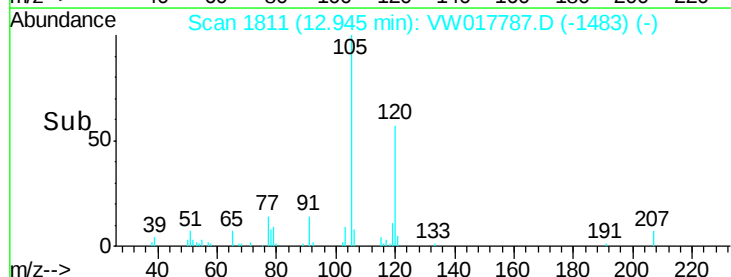
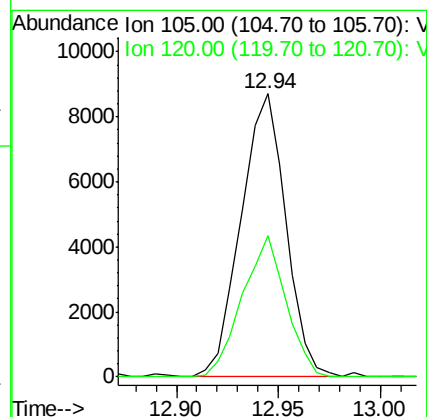
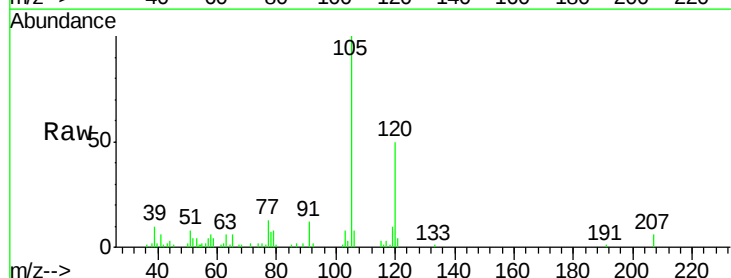
Acq: 04 Jan 2021 14:37

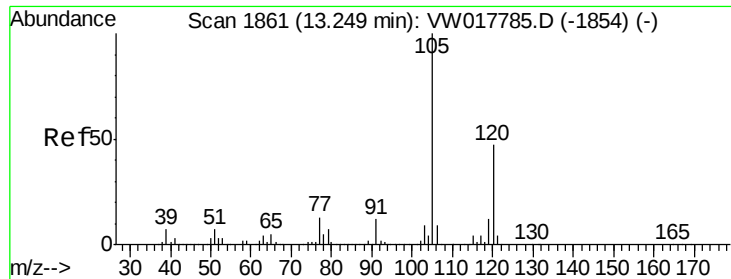
Tgt Ion: 105 Resp: 13305

Ion Ratio Lower Upper

105 100

120 48.7 39.0 58.6

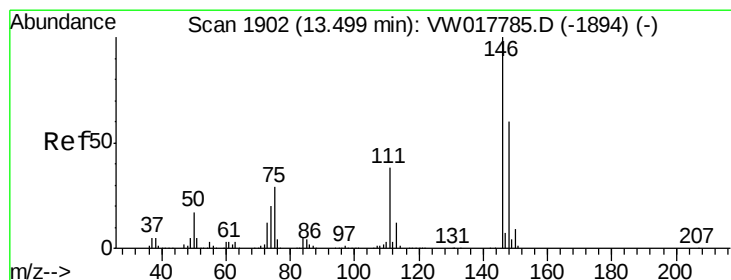
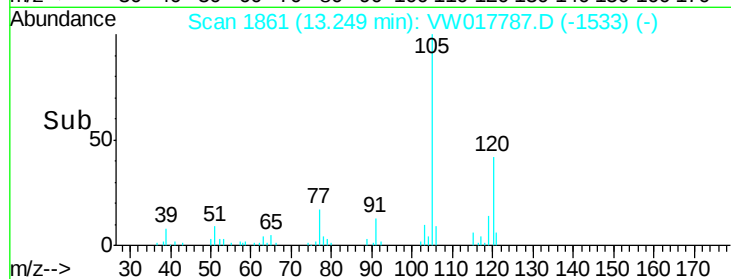
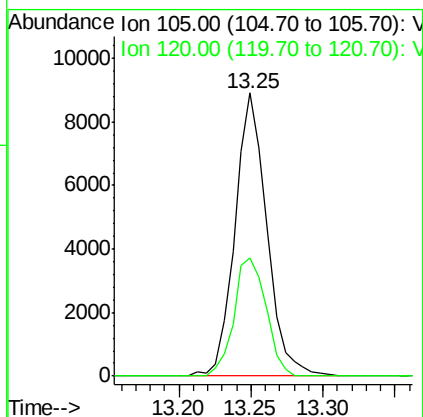
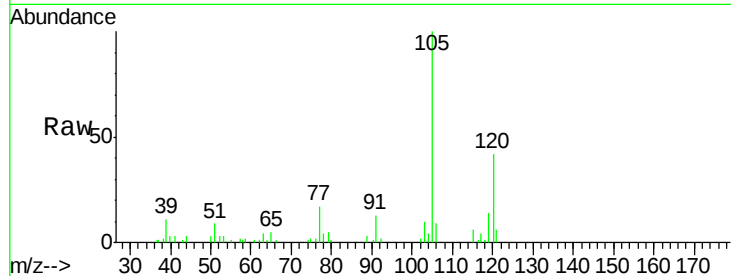




#63
 1,2,4-Trimethylbenzene
 Concen: 0.958 ug/L
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW017787.D
 Acq: 04 Jan 2021 14:37

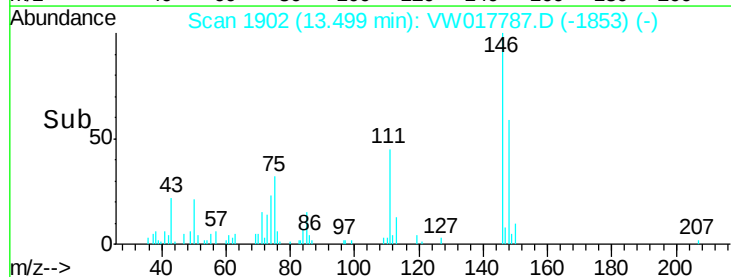
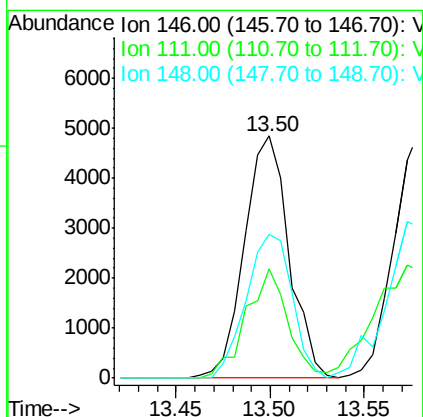
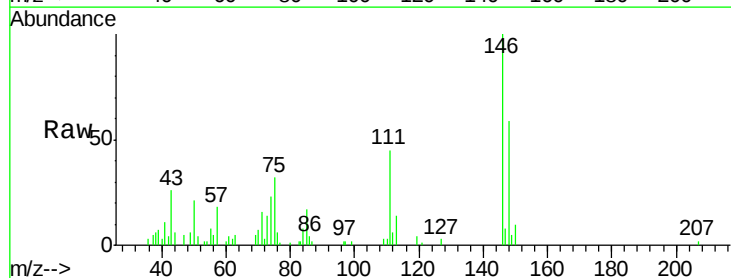
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-QT1-2021-02

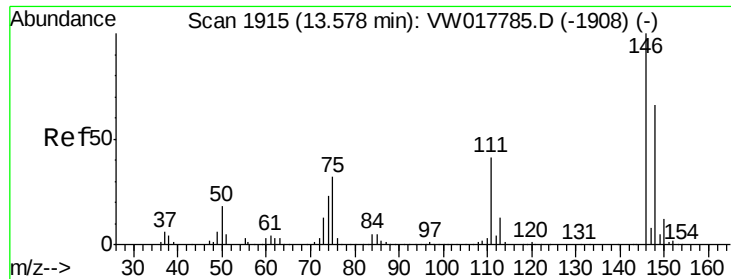
Tot Ion:105 Resp: 13752
 Ion Ratio Lower Upper
 105 100
 120 41.9 35.6 53.4



#64
 1,3-Dichlorobenzene
 Concen: 1.039 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW017787.D
 Acq: 04 Jan 2021 14:37

Tgt Ion:146 Resp: 7950
 Ion Ratio Lower Upper
 146 100
 111 44.9 26.7 49.7
 148 59.2 41.1 76.3





#65

1,4-Dichlorobenzene

Concen: 1.047 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT1-2021-02

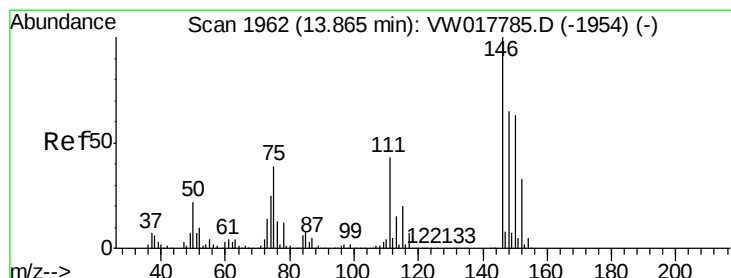
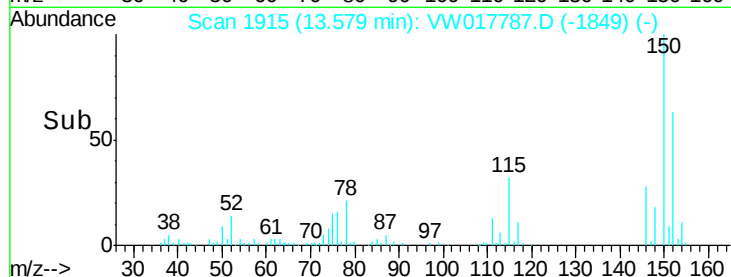
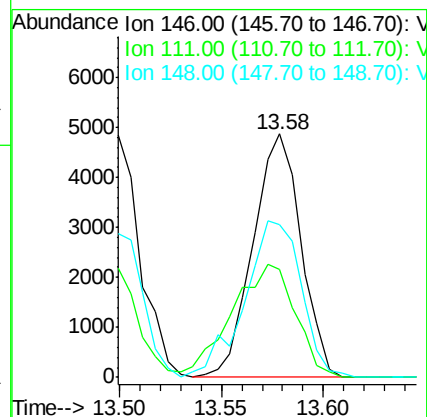
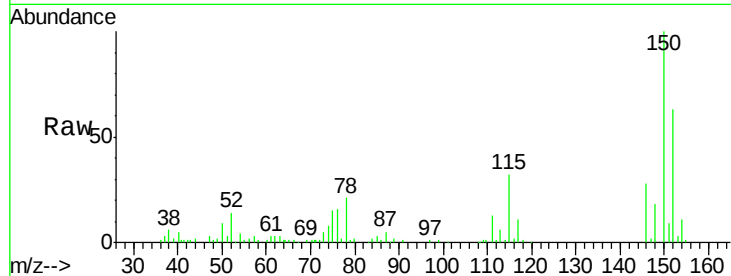
Tot Ion:146 Resp: 7961

Ion Ratio Lower Upper

146 100

111 44.5 28.8 53.4

148 62.8 46.8 87.0



#67

1,2-Dichlorobenzene

Concen: 1.093 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.01 min

Lab File: VW017787.D

Acq: 04 Jan 2021 14:37

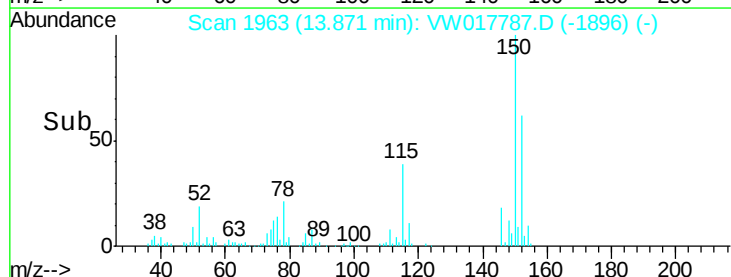
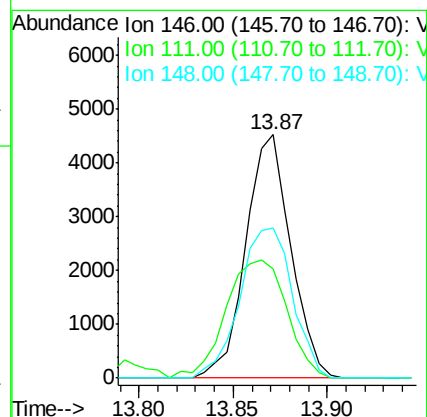
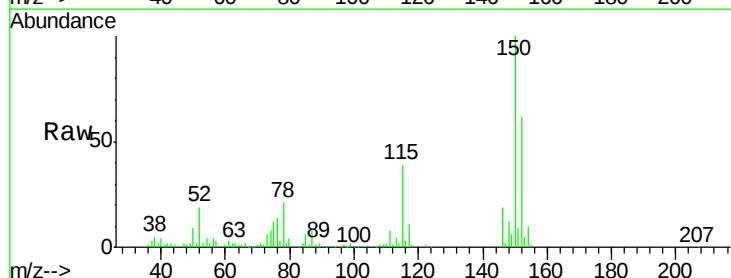
Tgt Ion:146 Resp: 7507

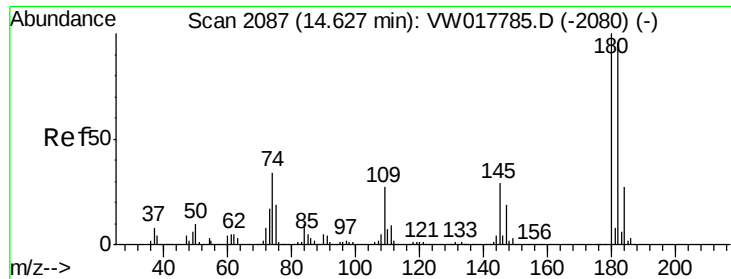
Ion Ratio Lower Upper

146 100

111 44.9 33.2 49.8

148 61.6 50.4 75.6

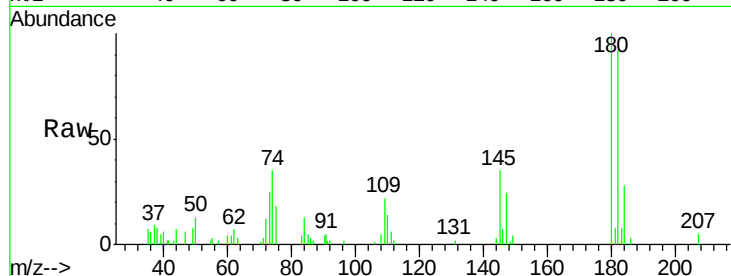




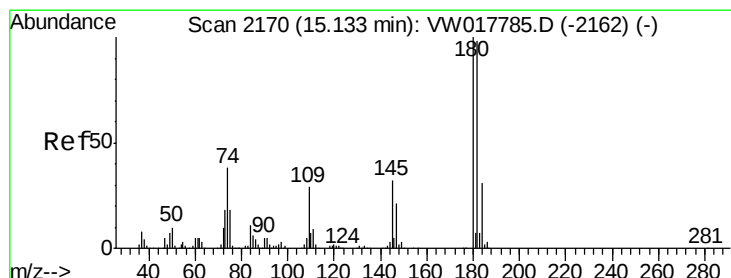
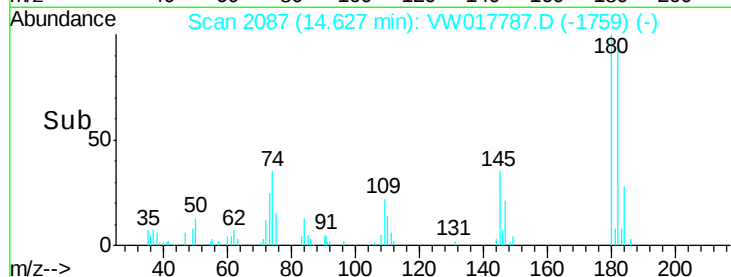
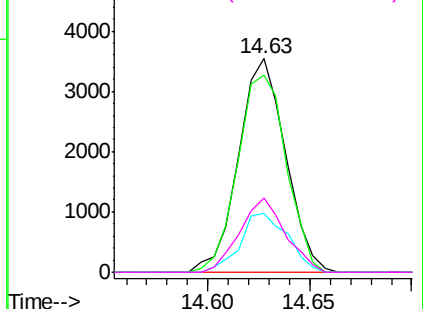
#69
 1,3,5-Trichlorobenzene
 Concen: 1.097 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW017787.D
 Acq: 04 Jan 2021 14:37

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-QT1-2021-02

Tot Ion:180 Resp: 5680
 Ion Ratio Lower Upper
 180 100
 182 95.5 73.4 110.2
 184 27.6 23.6 35.4
 145 33.6 24.9 37.3

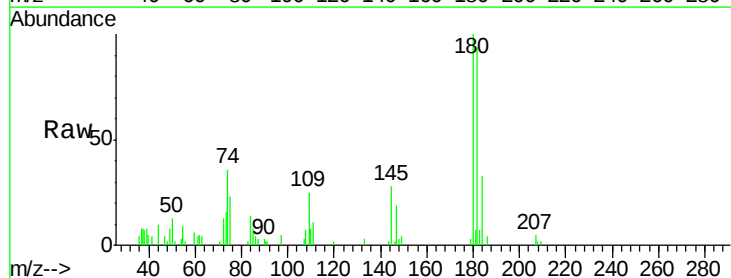


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

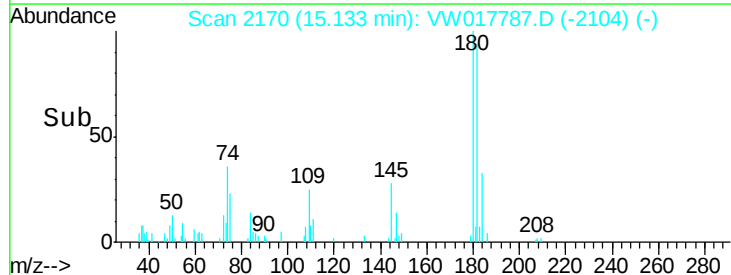
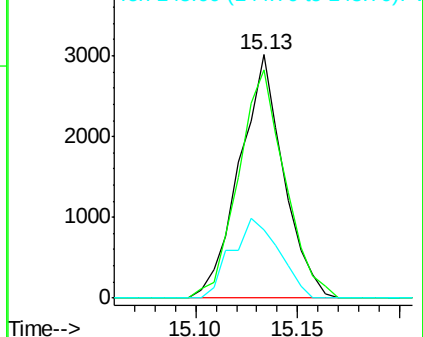


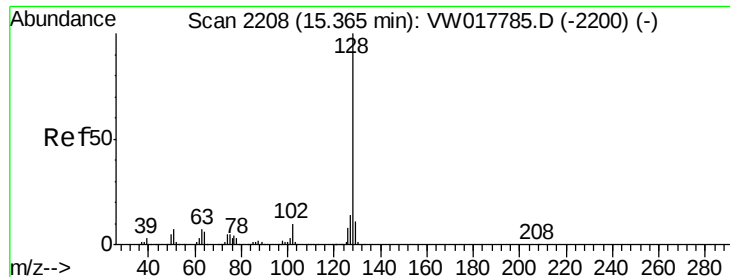
#70
 1,2,4-trichlorobenzene
 Concen: 1.012 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW017787.D
 Acq: 04 Jan 2021 14:37

Tgt Ion:180 Resp: 4537
 Ion Ratio Lower Upper
 180 100
 182 98.5 74.7 112.1
 145 35.1 25.0 37.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

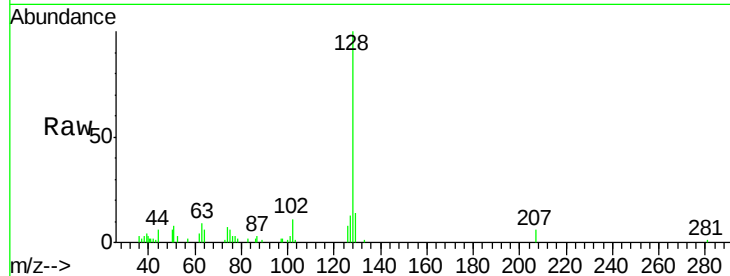




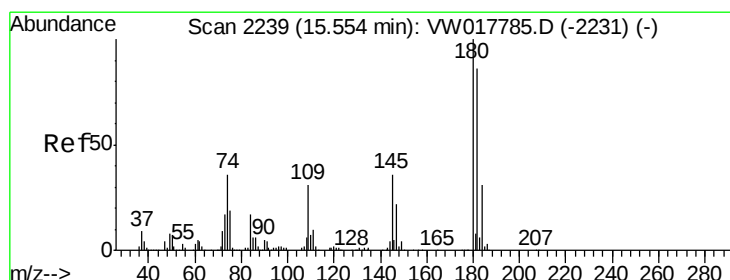
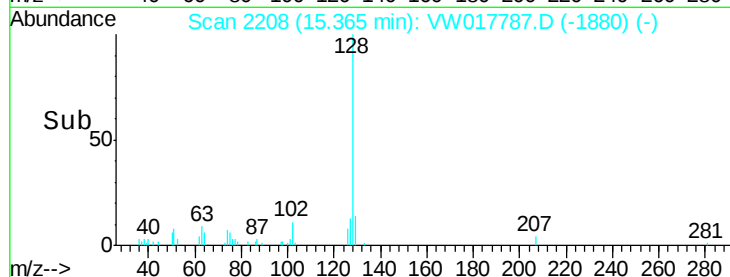
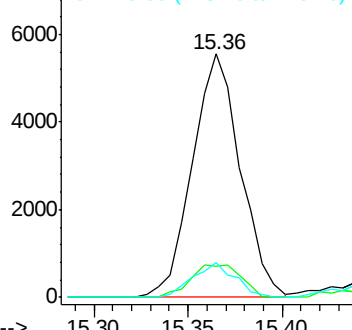
#71
Naphthalene
Concen: 0.948 ug/L
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW017787.D
Acq: 04 Jan 2021 14:37

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT1-2021-02

Tot Ion:128 Resp: 9791
Ion Ratio Lower Upper
128 100
127 13.9 10.6 15.8
129 12.5 9.0 13.6

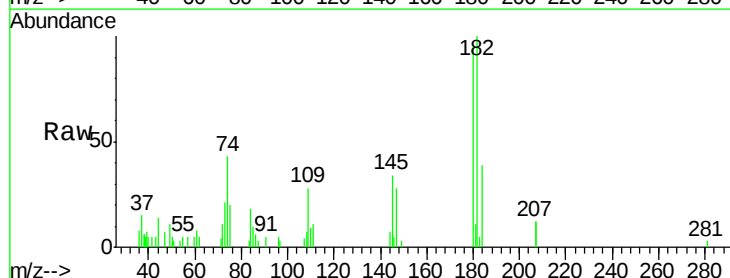


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 0.975 ug/L
RT: 15.55 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VW017787.D
Acq: 04 Jan 2021 14:37

Tgt Ion:180 Resp: 3844
Ion Ratio Lower Upper
180 100
182 100.9 76.7 115.1
145 34.2 28.9 43.3



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

