

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100720\
 Data File : VU040552.D
 Acq On : 07 Oct 2020 18:31
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-04

Quant Time: Oct 08 01:22:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 08 01:13:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	258290	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	256904	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	123238	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	100190	45.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.34%
7) Chloroethane-d5	1.92	69	80305	47.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.04%
11) 1,1-Dichloroethene-d2	2.58	63	153766	36.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.66%
21) 2-Butanone-d5	4.64	46	211685	120.25	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	120.25%
24) Chloroform-d	5.08	84	186655	48.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.56%
26) 1,2-Dichloroethane-d4	5.72	65	131784	49.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.92%
32) Benzene-d6	5.75	84	358221	48.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.98%
36) 1,2-Dichloropropane-d6	6.70	67	117788	48.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.14%
41) Toluene-d8	7.91	98	314985	47.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.04%
43) trans-1,3-Dichloropropene-	8.19	79	57079	46.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.06%
47) 2-Hexanone-d5	8.64	63	136596	119.57	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	119.57%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	176948	49.99	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.98%
66) 1,2-Dichlorobenzene-d4	12.19	152	127346	50.77	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.54%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	6253	2.514 ug/L	92
3) Chloromethane	1.53	50	6740	2.579 ug/L	93
5) Vinyl chloride	1.61	62	6777	2.619 ug/L #	56
6) Bromomethane	1.86	94	3371	2.482 ug/L	93
8) Chloroethane	1.94	64	4103	2.628 ug/L	89
9) Trichlorofluoromethane	2.15	101	8617	2.596 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	6292	3.180 ug/L #	85
12) 1,1-Dichloroethene	2.59	96	5881	3.215 ug/L #	1
13) Acetone	2.64	43	9498	5.618 ug/L	100
14) Carbon disulfide	2.81	76	16663	2.653 ug/L	98
15) Methyl Acetate	2.96	43	7763	2.815 ug/L	96
16) Methylene chloride	3.06	84	5963	2.749 ug/L	92
17) trans-1,2-Dichloroethene	3.37	96	5441	2.792 ug/L	85
18) Methyl tert-butyl Ether	3.38	73	15219	2.483 ug/L	98
19) 1,1-Dichloroethane	3.89	63	10107	2.601 ug/L	93
20) cis-1,2-Dichloroethene	4.69	96	5171	2.463 ug/L	98
22) 2-Butanone	4.73	43	12832	5.950 ug/L #	65

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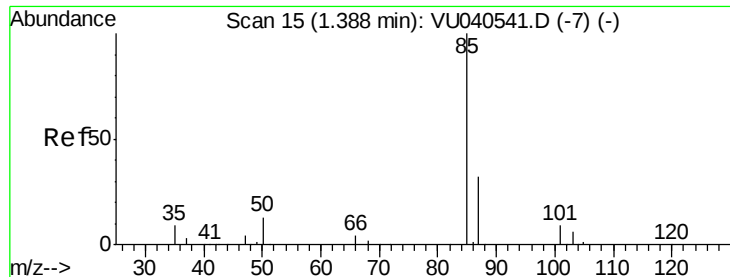
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	5.00	128	2646	2.418	ug/L #	91
25) Chloroform	5.11	83	11531	2.910	ug/L	92
27) 1,2-Dichloroethane	5.81	62	8625	2.637	ug/L	97
29) Cyclohexane	5.41	56	7930	2.305	ug/L	95
30) 1,1,1-Trichloroethane	5.34	97	8896	2.696	ug/L	95
31) Carbon tetrachloride	5.54	117	7190	2.520	ug/L	96
33) Benzene	5.79	78	21138	2.546	ug/L	100
34) Trichloroethene	6.55	95	5321	2.487	ug/L	94
35) Methylcyclohexane	6.77	83	7820	2.405	ug/L	96
37) 1,2-Dichloropropane	6.80	63	6280	2.754	ug/L #	90
38) Bromodichloromethane	7.12	83	7019	2.370	ug/L	97
39) cis-1,3-Dichloropropene	7.62	75	7905	2.365	ug/L	98
40) 4-Methyl-2-pentanone	7.80	43	18298	5.086	ug/L	100
42) Toluene	7.98	91	20289	2.393	ug/L	92
44) trans-1,3-Dichloropropene	8.21	75	8602	2.556	ug/L	96
45) 1,1,2-Trichloroethane	8.41	97	4972	2.434	ug/L	97
46) Tetrachloroethene	8.56	164	3813	2.467	ug/L	80
48) 2-Hexanone	8.69	43	18158	6.209	ug/L	93
49) Dibromochloromethane	8.82	129	5527	2.478	ug/L	85
50) 1,2-Dibromoethane	8.93	107	5734	2.648	ug/L #	95
51) Chlorobenzene	9.45	112	14294	2.571	ug/L	98
52) Ethylbenzene	9.57	91	21068	2.239	ug/L	94
53) m,p-Xylene	9.70	106	7653	2.209	ug/L	85
54) o-xylene	10.10	106	7241	2.196	ug/L	85
55) Styrene	10.11	104	12064	2.078	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.78	83	10058	2.784	ug/L #	95
59) Bromoform	10.29	173	3606	2.387	ug/L #	98
60) 1,2,3-Trichloropropane	10.82	75	8090	2.890	ug/L	99
61) Isopropylbenzene	10.48	105	18433	2.227	ug/L	97
62) 1,3,5-Trimethylbenzene	11.09	105	13191	1.940	ug/L	97
63) 1,2,4-Trimethylbenzene	11.47	105	13461	1.952	ug/L	95
64) 1,3-Dichlorobenzene	11.74	146	10113	2.506	ug/L	99
65) 1,4-Dichlorobenzene	11.83	146	10957	2.585	ug/L	96
67) 1,2-Dichlorobenzene	12.21	146	12079	2.988	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.99	75	2732	3.474	ug/L	91
69) 1,3,5-Trichlorobenzene	13.21	180	7277	2.752	ug/L	100
70) 1,2,4-trichlorobenzene	13.83	180	5807	2.534	ug/L	98
71) Naphthalene	14.08	128	16763	2.366	ug/L	99
72) 1,2,3-Trichlorobenzene	14.32	180	5888	2.588	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 2.514 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

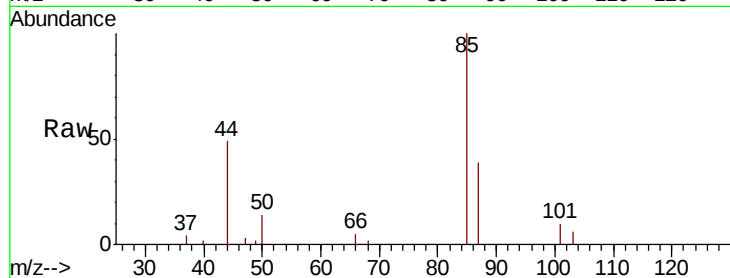
MDL-ME-SOIL-04

Tot Ion: 85 Resp: 6253

Ion Ratio Lower Upper

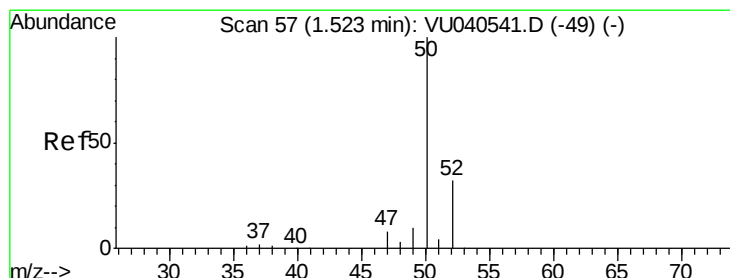
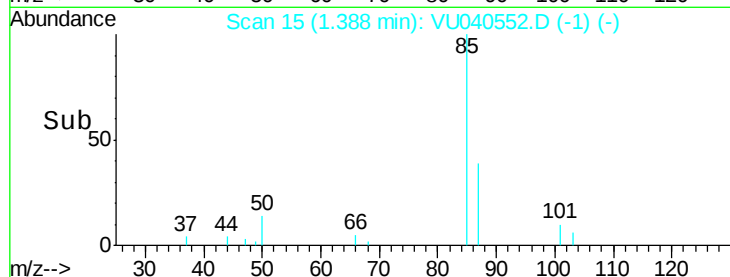
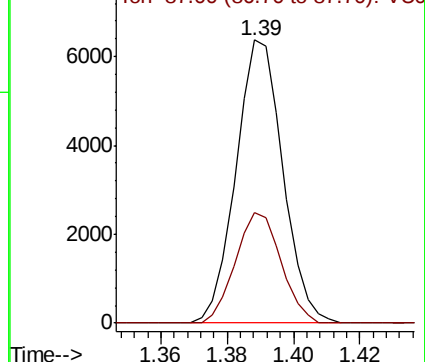
85 100

87 37.9 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 2.579 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040552.D

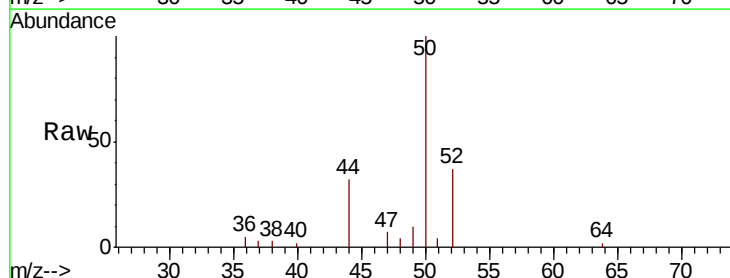
Acq: 07 Oct 2020 18:31

Tgt Ion: 50 Resp: 6740

Ion Ratio Lower Upper

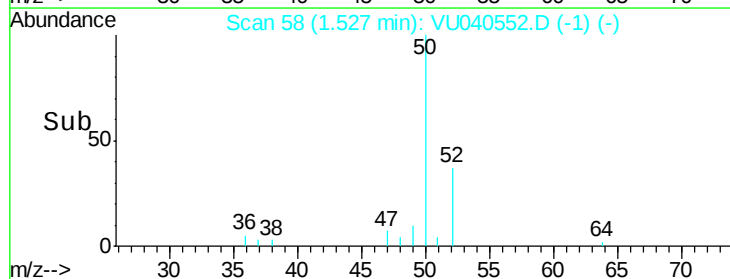
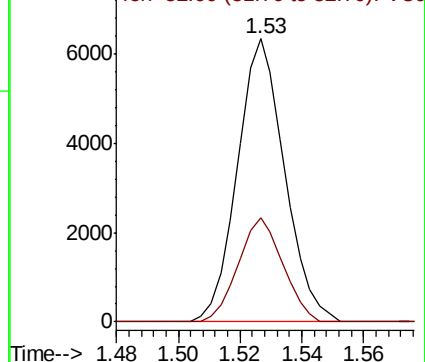
50 100

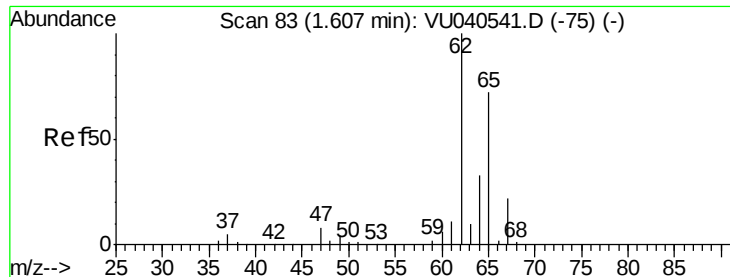
52 36.6 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 2.619 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

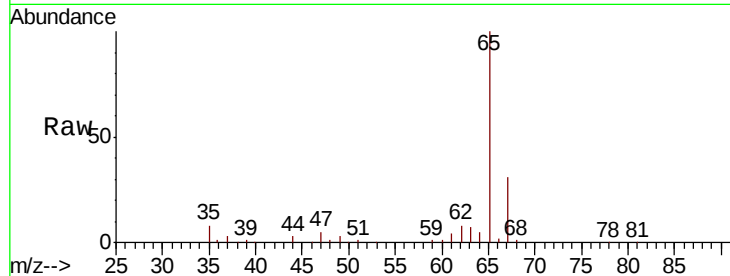
MDL-ME-SOIL-04

Tot Ion: 62 Resp: 6777

Ion Ratio Lower Upper

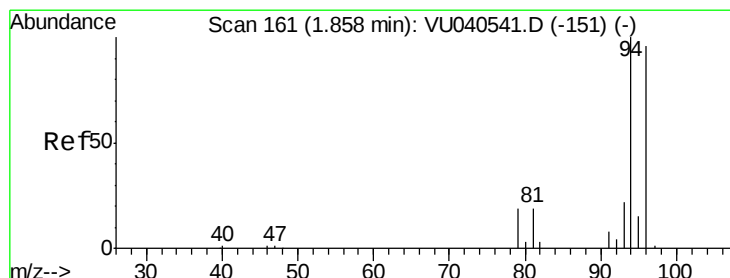
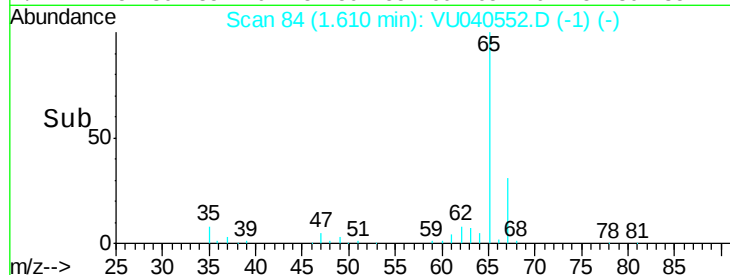
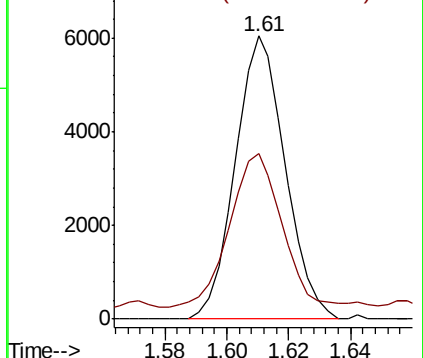
62 100

64 58.6 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.482 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.01 min

Lab File: VU040552.D

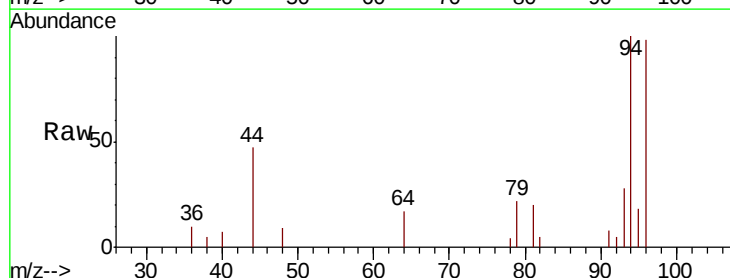
Acq: 07 Oct 2020 18:31

Tgt Ion: 94 Resp: 3371

Ion Ratio Lower Upper

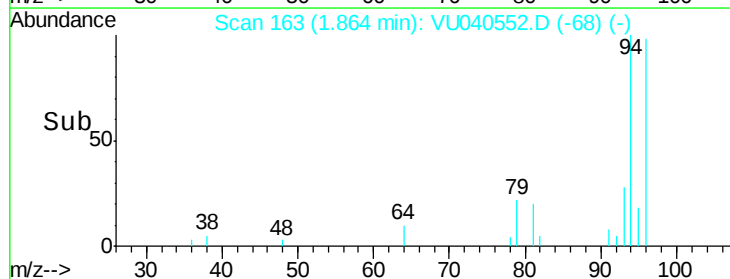
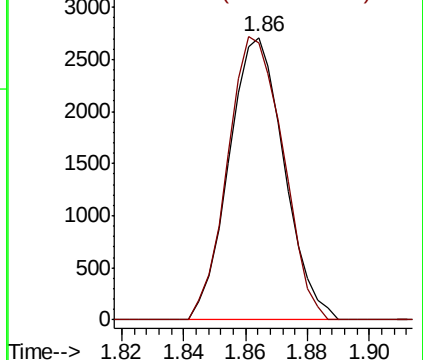
94 100

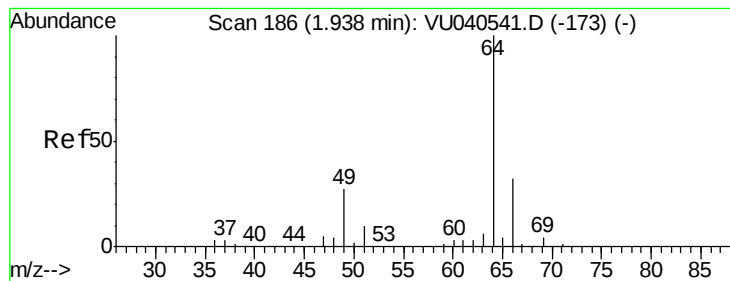
96 98.3 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.628 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

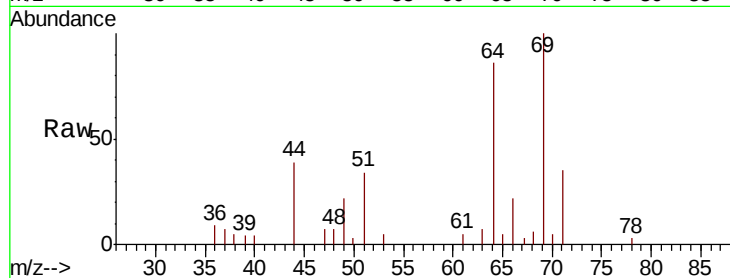
MDL-ME-SOIL-04

Tot Ion: 64 Resp: 4103

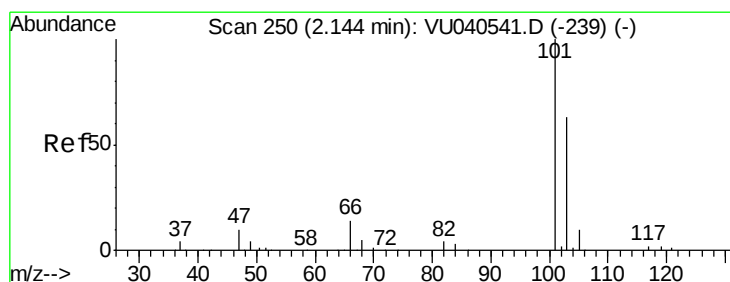
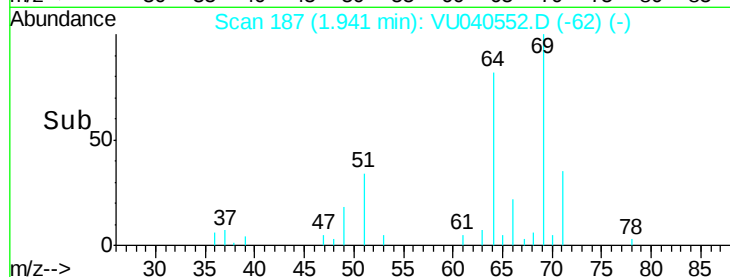
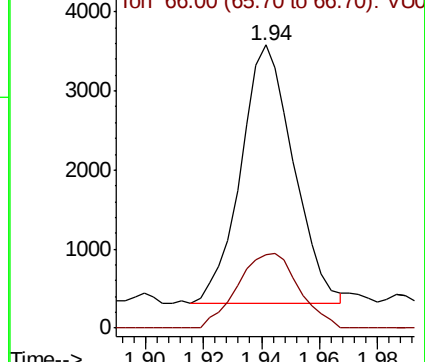
Ion Ratio Lower Upper

64 100

66 26.0 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VU040541.D (-173) (-)



#9

Trichlorofluoromethane

Concen: 2.596 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU040552.D

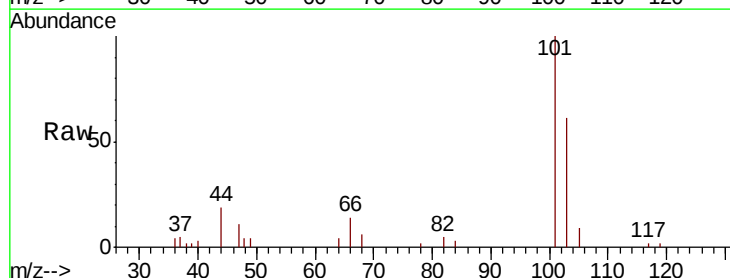
Acq: 07 Oct 2020 18:31

Tgt Ion: 101 Resp: 8617

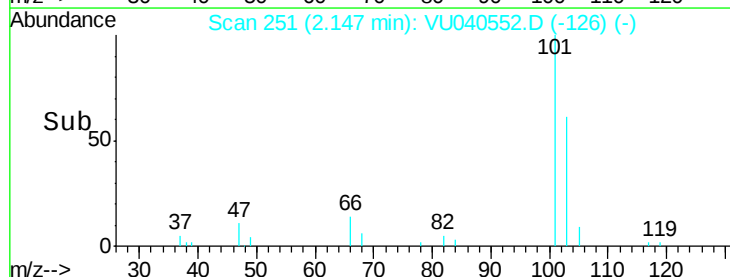
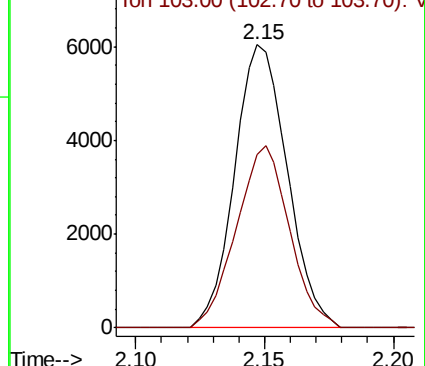
Ion Ratio Lower Upper

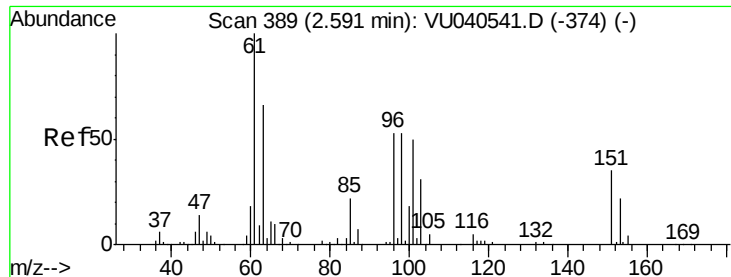
101 100

103 64.9 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VU040541.D (-239) (-)





#10

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

Concen: 3.180 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

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ClientSampleId :

MDL-ME-SOIL-04

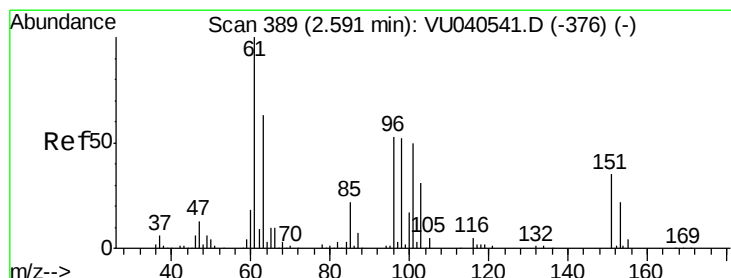
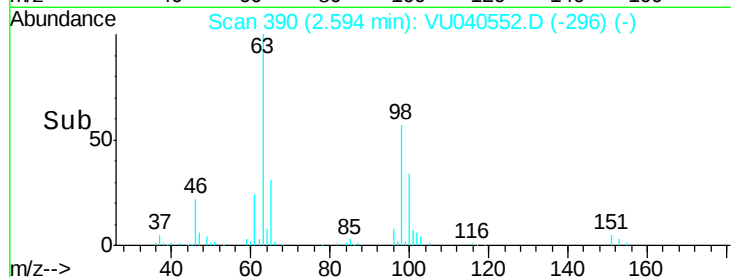
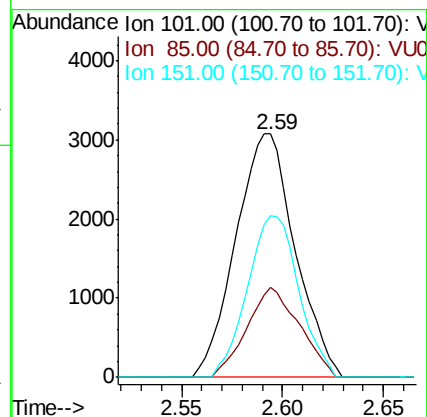
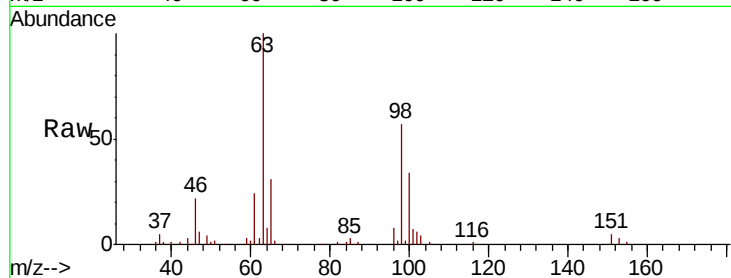
Tot Ion:101 Resp: 6292

Ion Ratio Lower Upper

101 100

85 32.9 35.4 53.2#

151 57.6 54.8 82.2



#12

1,1-Dichloroethene

Concen: 3.215 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

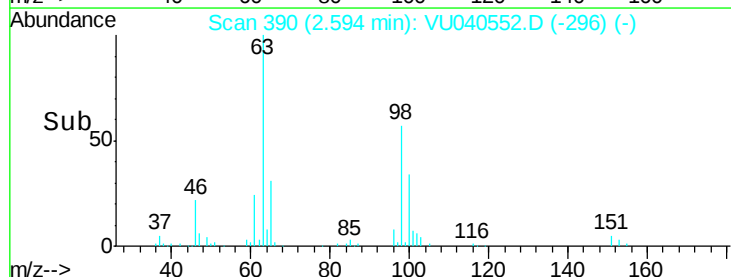
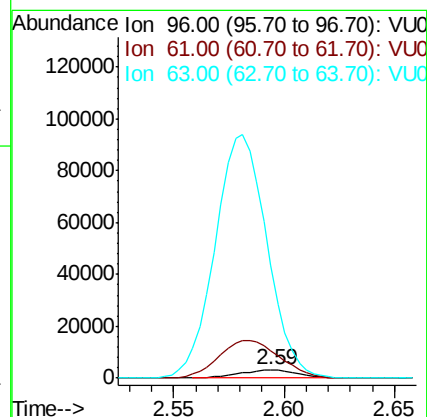
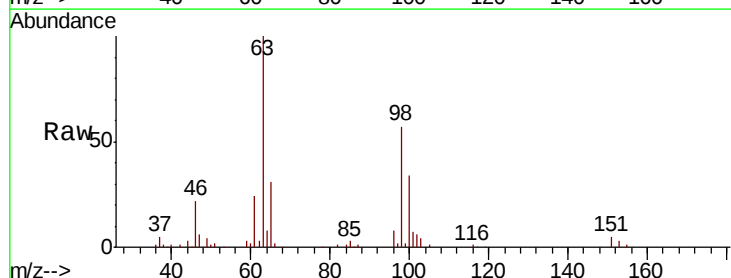
Tgt Ion: 96 Resp: 5881

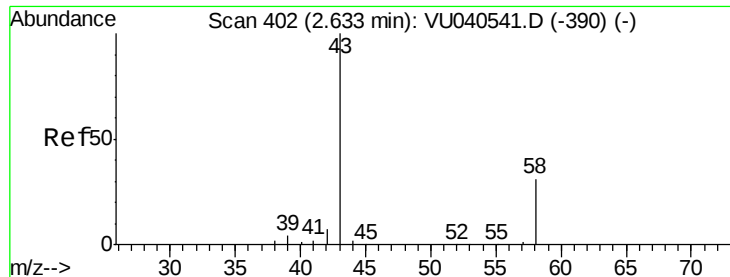
Ion Ratio Lower Upper

96 100

61 317.2 135.0 250.8#

63 1308.5 101.4 188.2#





#13

Acetone

Concen: 5.618 ug/L

RT: 2.64 min Scan# 404

Delta R.T. 0.01 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

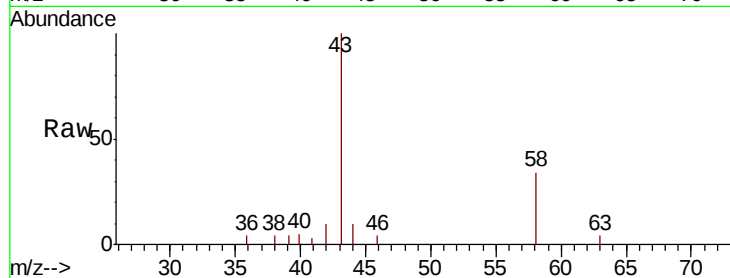
MDL-ME-SOIL-04

Tot Ion: 43 Resp: 9498

Ion Ratio Lower Upper

43 100

58 29.9 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040552.D (-309) (-)

Ion 58.00 (57.70 to 58.70): VU040552.D (-309) (-)

6000

5000

4000

3000

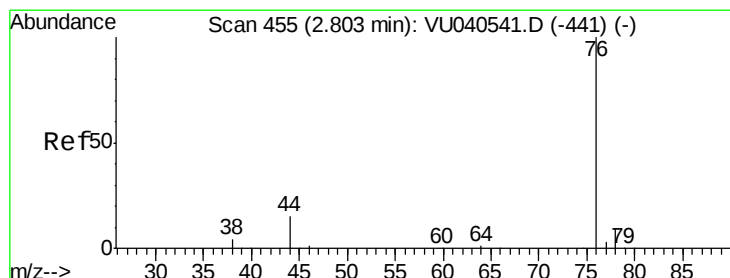
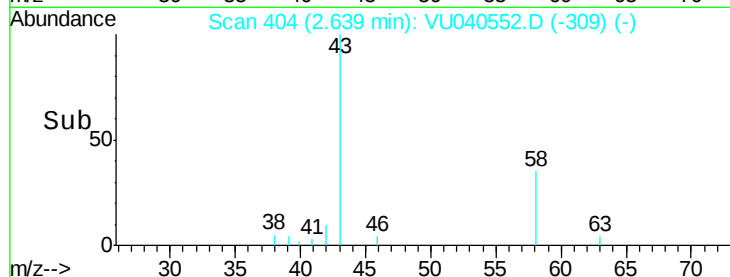
2000

1000

0

Time-->

2.60 2.65 2.70



#14

Carbon disulfide

Concen: 2.653 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040552.D

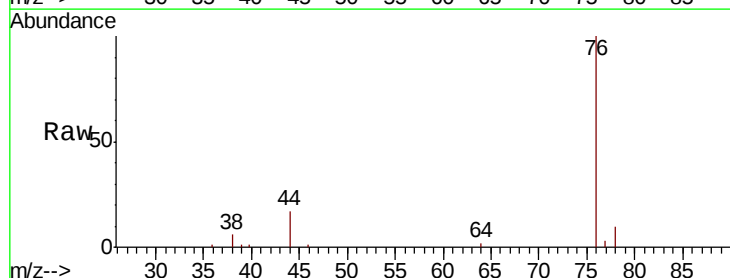
Acq: 07 Oct 2020 18:31

Tgt Ion: 76 Resp: 16663

Ion Ratio Lower Upper

76 100

78 10.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU040552.D (-362) (-)

Ion 78.00 (77.70 to 78.70): VU040552.D (-362) (-)

10000

8000

6000

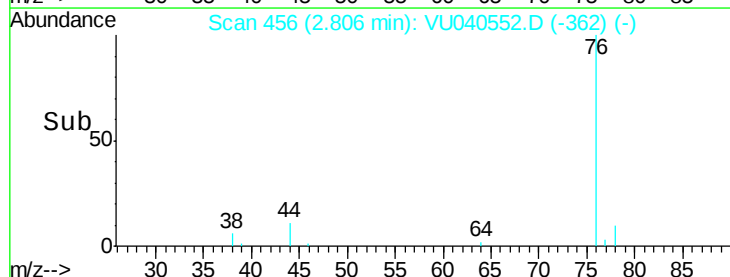
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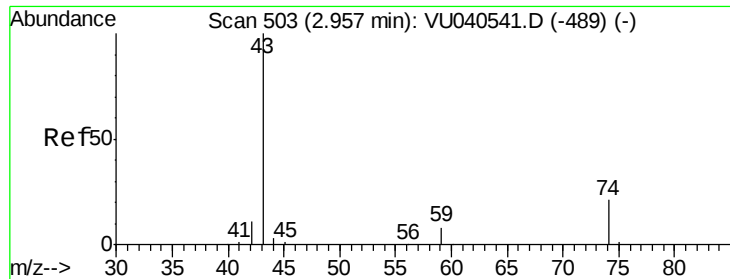
2000

0

Time-->

2.75 2.80 2.85

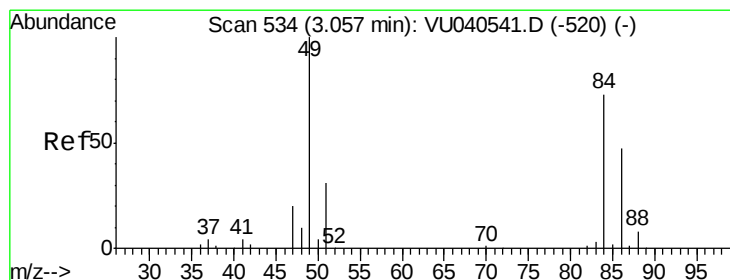
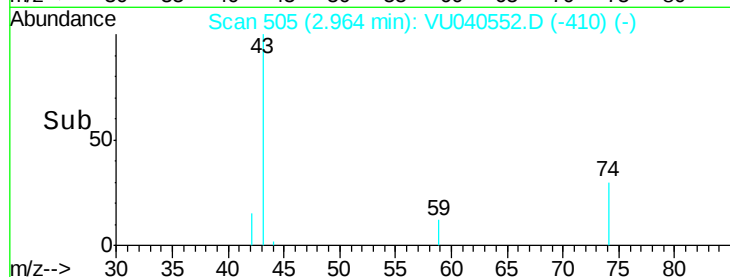
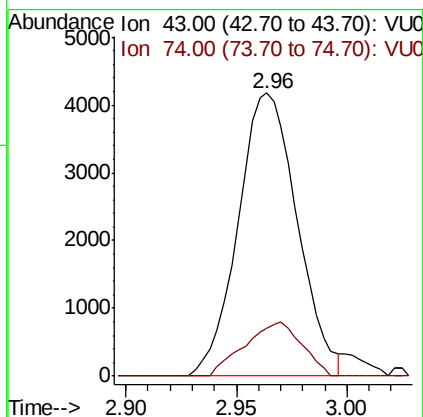
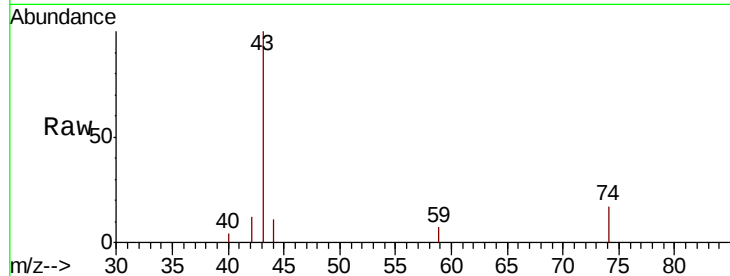




#15
Methvl Acetate
Concen: 2.815 ug/L
RT: 2.96 min Scan# 505
Delta R.T. 0.01 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

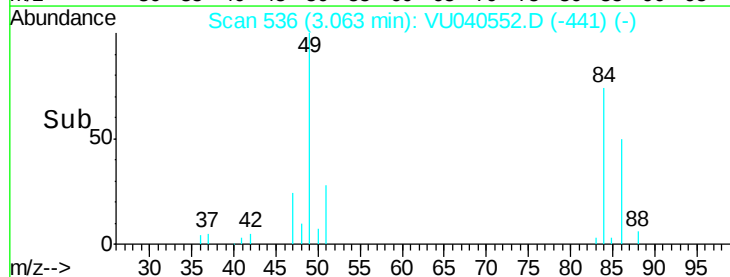
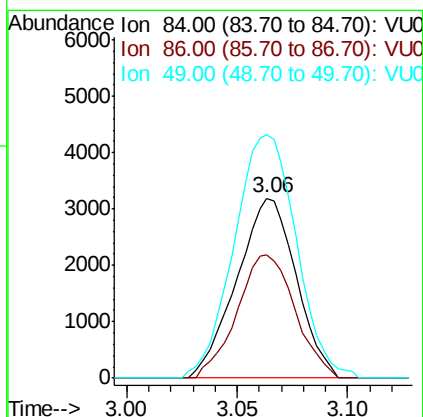
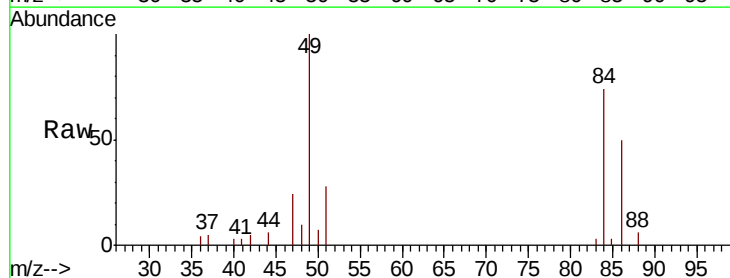
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-04

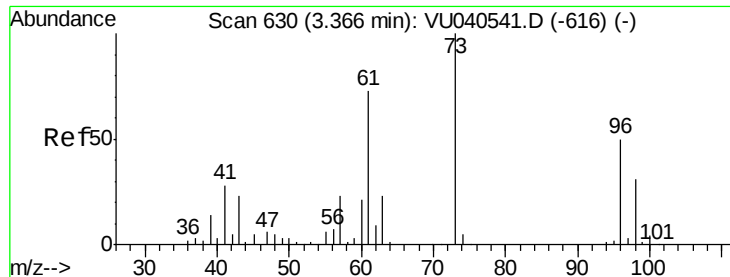
Tot Ion: 43 Resp: 7763
Ion Ratio Lower Upper
43 100
74 18.5 16.4 24.6



#16
Methylene chloride
Concen: 2.749 ug/L
RT: 3.06 min Scan# 536
Delta R.T. 0.01 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Tgt Ion: 84 Resp: 5963
Ion Ratio Lower Upper
84 100
86 68.1 45.4 84.4
49 135.2 102.9 191.1





#17

trans-1,2-Dichloroethene

Concen: 2.792 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

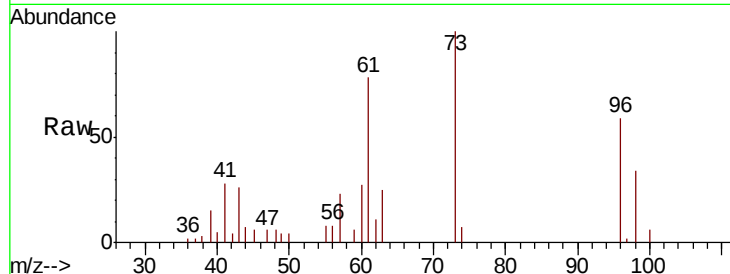
Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion: 96 Resp: 5441

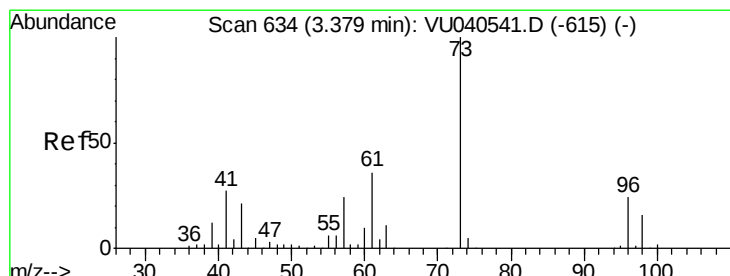
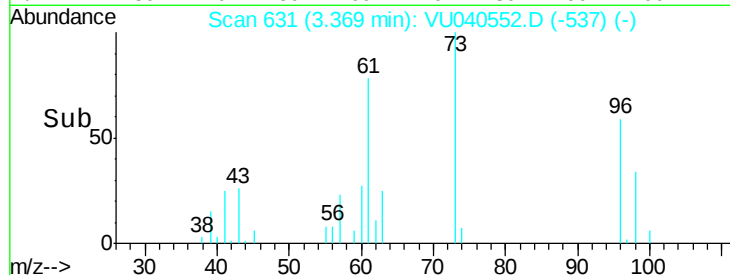
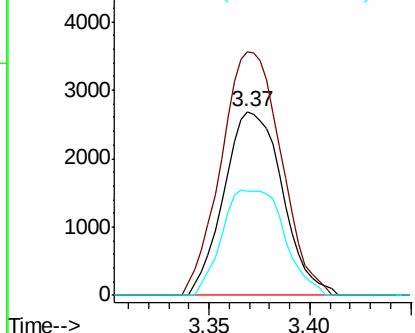
Ion	Ratio	Lower	Upper
96	100		
61	132.5	109.6	203.6
98	56.8	43.3	80.3



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 2.483 ug/L

RT: 3.38 min Scan# 635

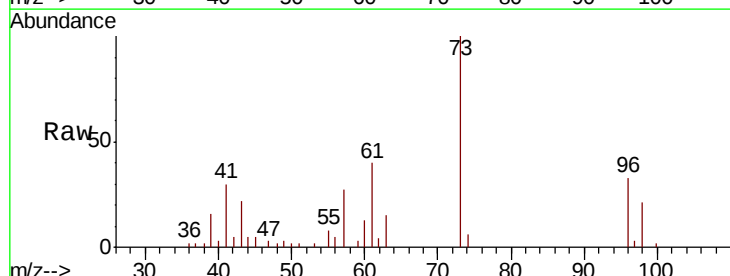
Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Tgt Ion: 73 Resp: 15219

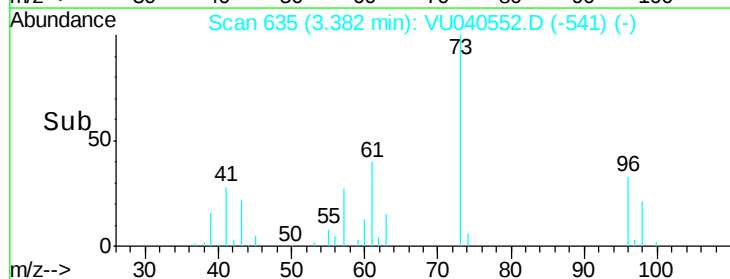
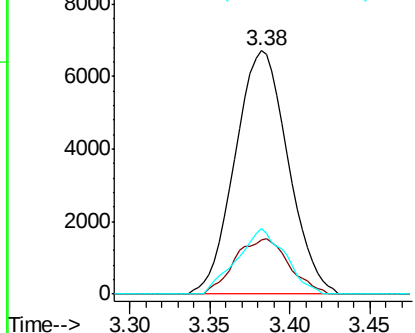
Ion	Ratio	Lower	Upper
73	100		
43	23.1	18.2	27.2
57	24.5	18.5	27.7

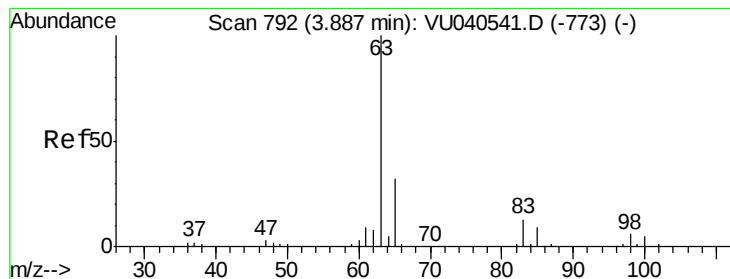


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 2.601 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-04

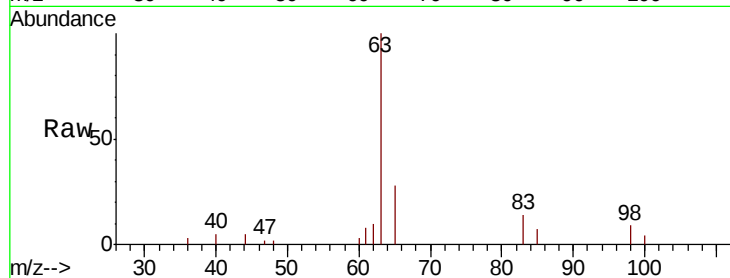
Tot Ion: 63 Resp: 10107

Ion Ratio Lower Upper

63 100

65 27.7 22.6 42.0

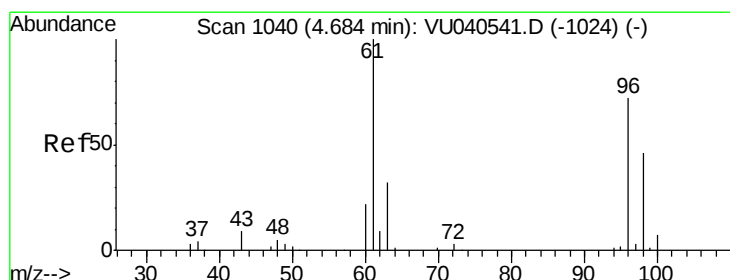
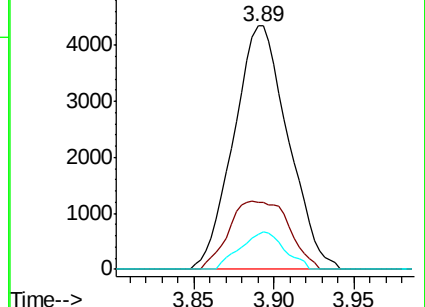
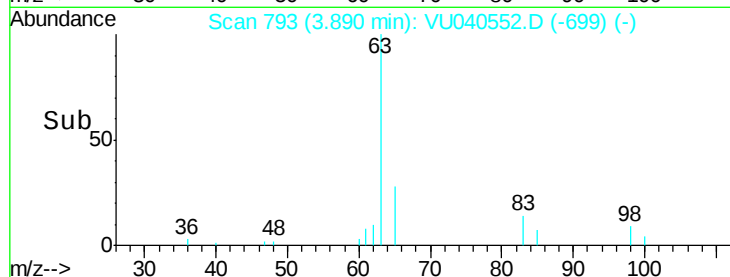
83 14.4 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU040552.D (-699) (-)

Ion 65.00 (64.70 to 65.70): VU040552.D (-699) (-)

Ion 83.00 (82.70 to 83.70): VU040552.D (-699) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.463 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

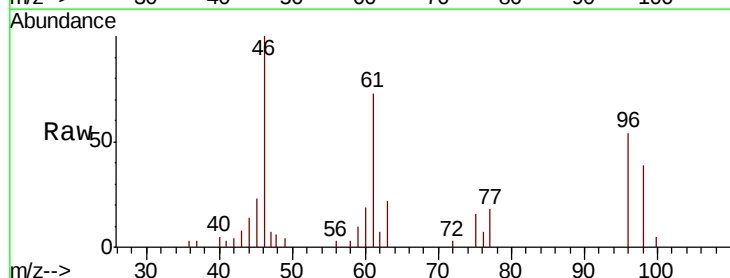
Tgt Ion: 96 Resp: 5171

Ion Ratio Lower Upper

96 100

61 134.5 95.7 177.7

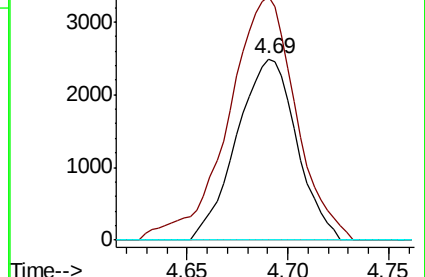
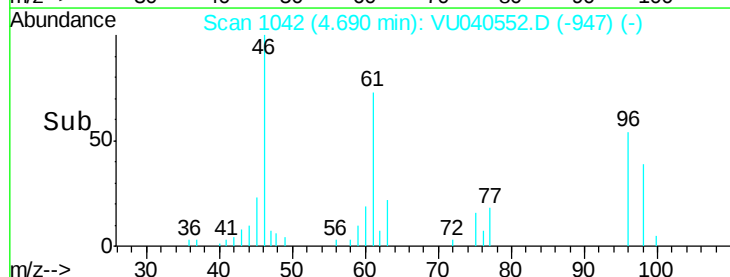
68 0.0 0.0 0.0

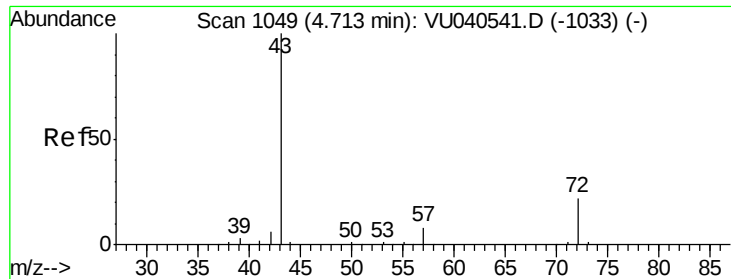


Abundance Ion 96.00 (95.70 to 96.70): VU040552.D (-947) (-)

Ion 61.00 (60.70 to 61.70): VU040552.D (-947) (-)

Ion 68.00 (67.70 to 68.70): VU040552.D (-947) (-)

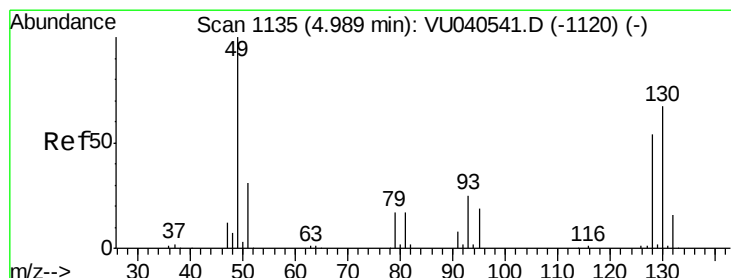
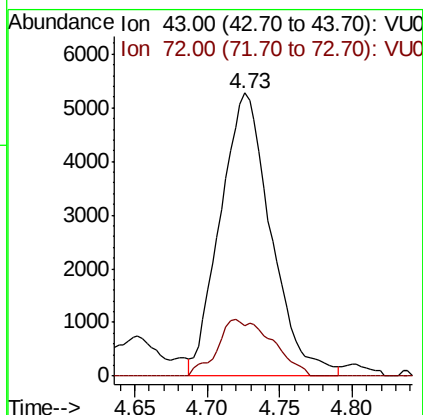
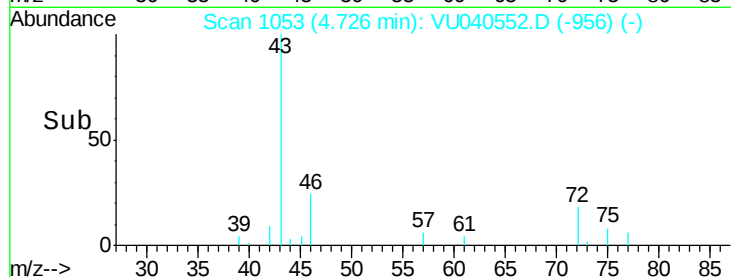
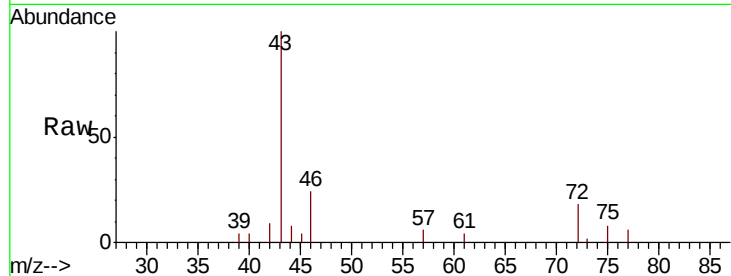




#22
2-Butanone
Concen: 5.950 ug/L
RT: 4.73 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

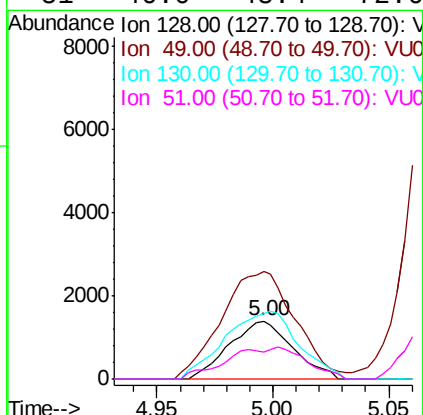
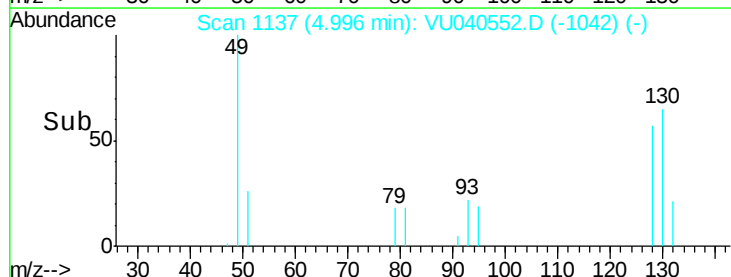
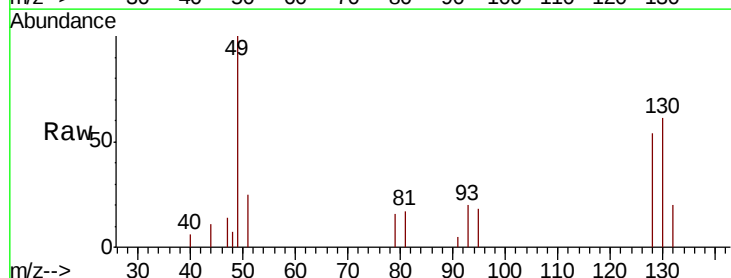
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-04

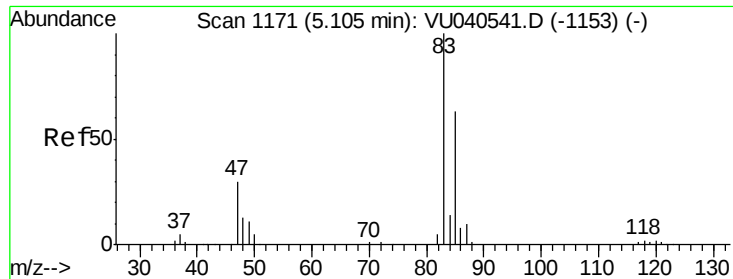
Tot Ion: 43 Resp: 12832
Ion Ratio Lower Upper
43 100
72 6.8 11.9 35.9#



#23
Bromochloromethane
Concen: 2.418 ug/L
RT: 5.00 min Scan# 1137
Delta R.T. 0.01 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Tgt Ion: 128 Resp: 2646
Ion Ratio Lower Upper
128 100
49 186.0 133.1 247.3
130 113.1 90.5 168.1
51 46.0 48.4 72.6#

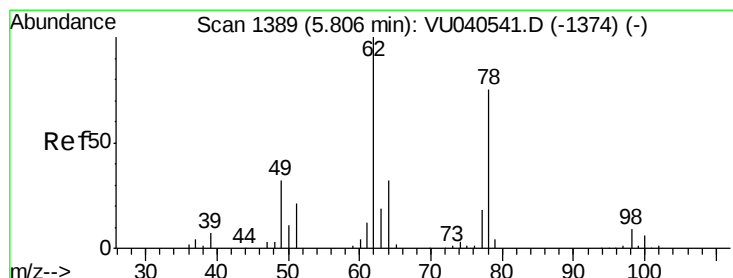
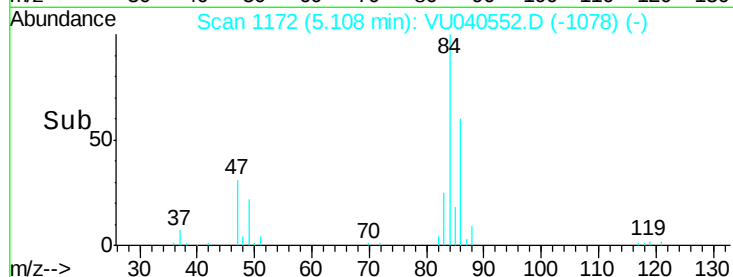
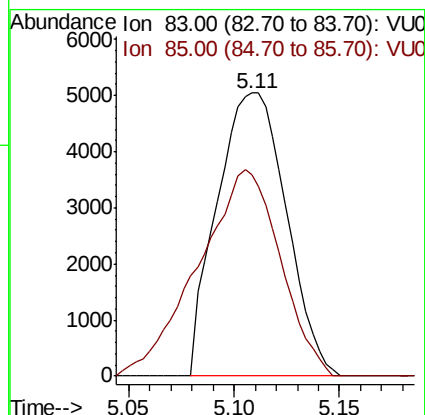
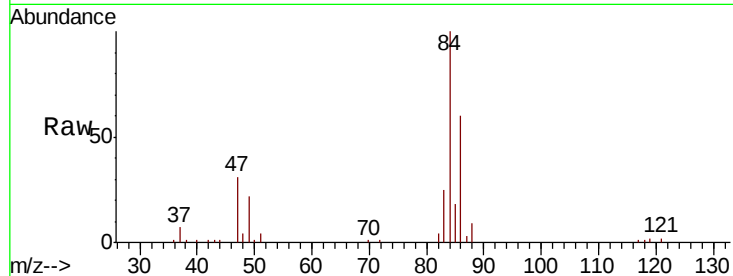




#25
Chloroform
Concen: 2.910 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

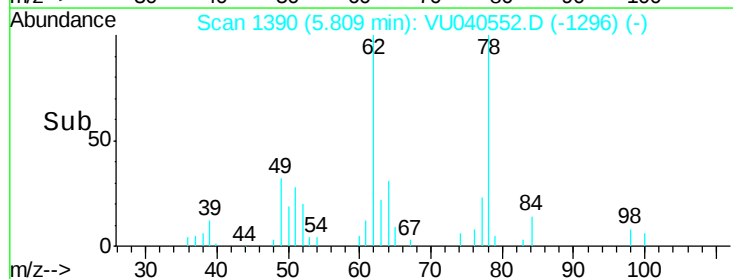
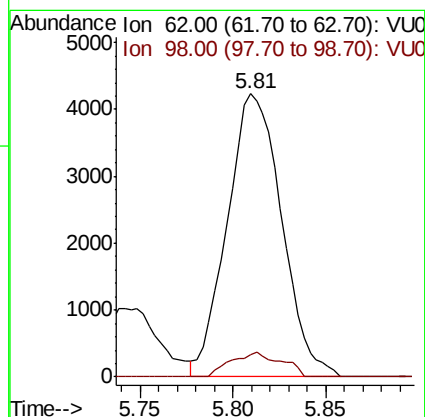
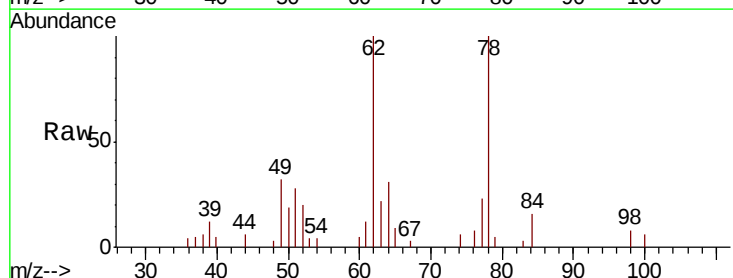
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-04

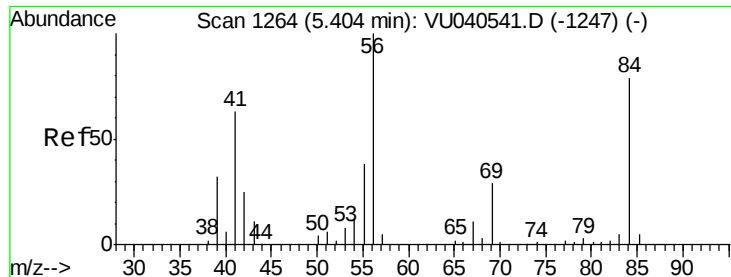
Tot Ion: 83 Resp: 11531
Ion Ratio Lower Upper
83 100
85 71.3 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.637 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Tgt Ion: 62 Resp: 8625
Ion Ratio Lower Upper
62 100
98 8.0 7.1 10.7

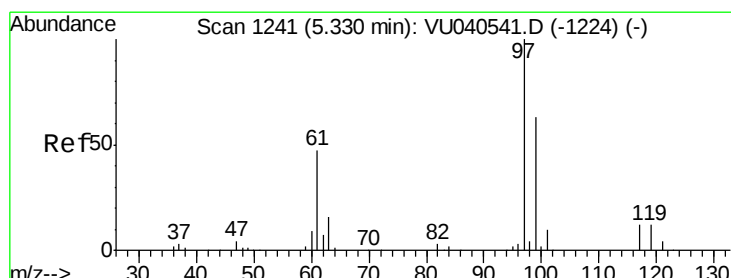
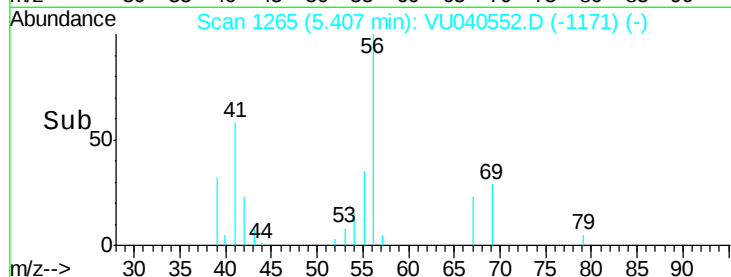
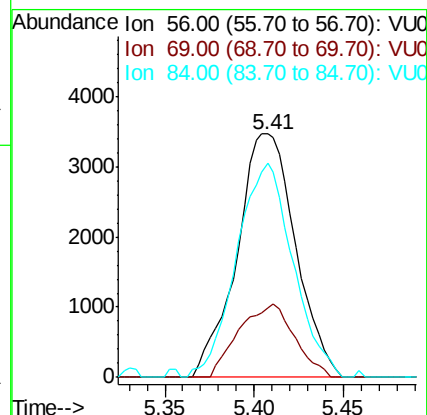
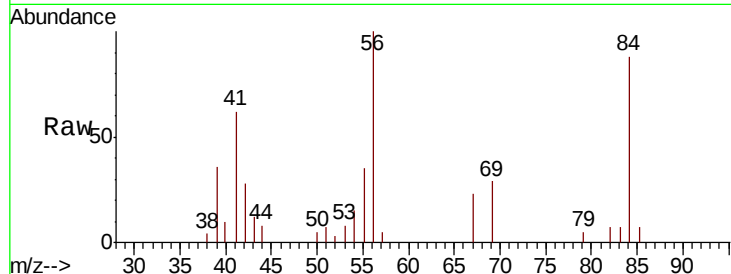




#29
Cyclohexane
Concen: 2.305 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

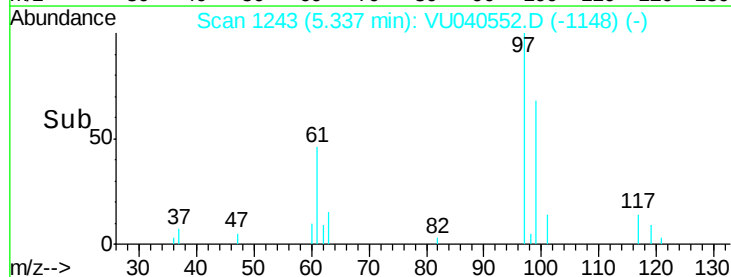
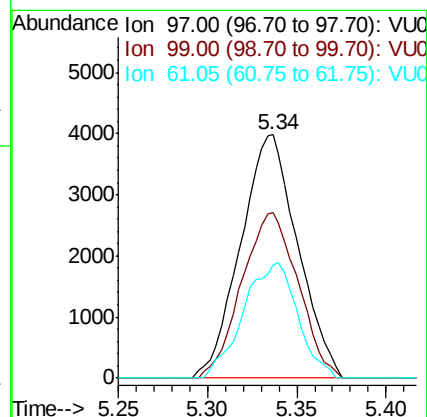
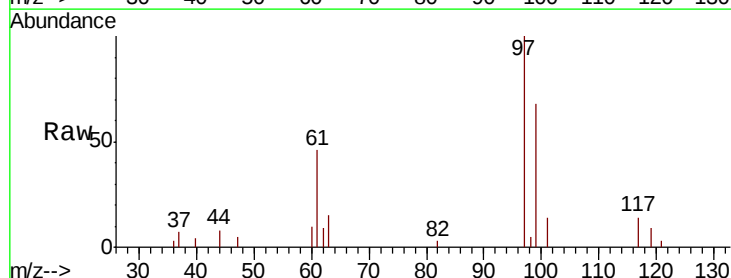
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-04

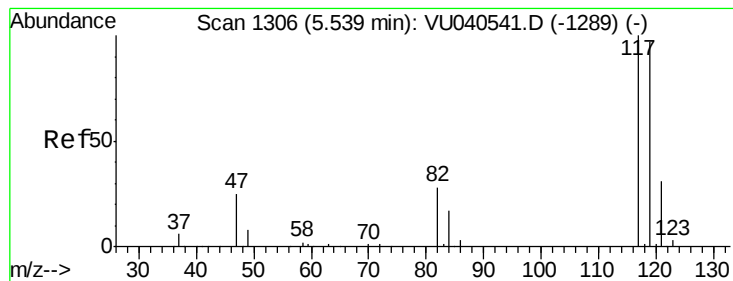
Tot Ion: 56 Resp: 7930
Ion Ratio Lower Upper
56 100
69 28.7 22.6 34.0
84 84.9 63.1 94.7



#30
1,1,1-Trichloroethane
Concen: 2.696 ug/L
RT: 5.34 min Scan# 1243
Delta R.T. 0.01 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Tgt Ion: 97 Resp: 8896
Ion Ratio Lower Upper
97 100
99 66.7 51.0 76.6
61 45.1 39.4 59.2





#31

Carbon tetrachloride

Concen: 2.520 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

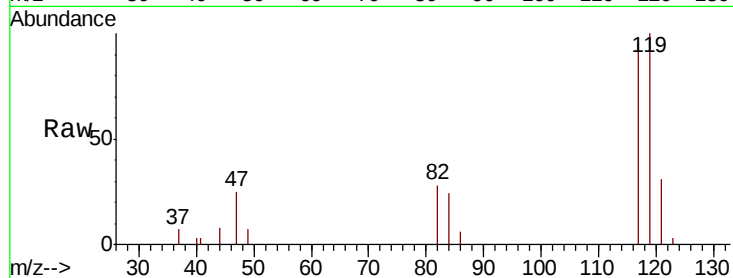
MDL-ME-SOIL-04

Tot Ion:117 Resp: 7190

Ion Ratio Lower Upper

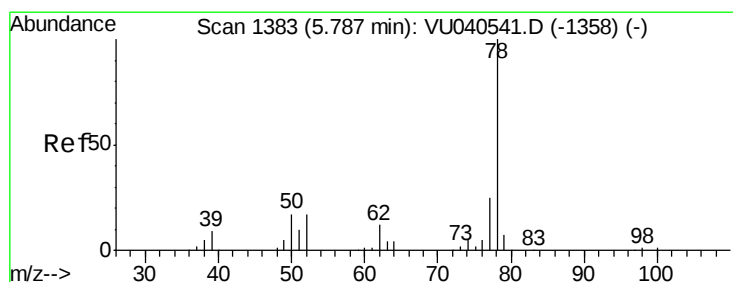
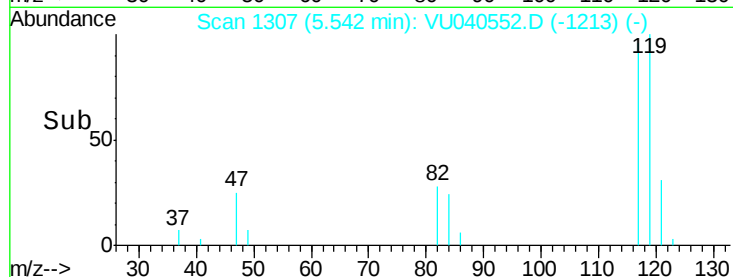
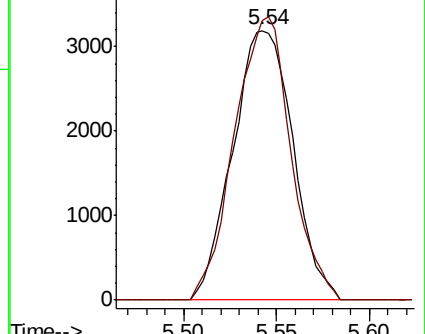
117 100

119 98.5 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.546 ug/L

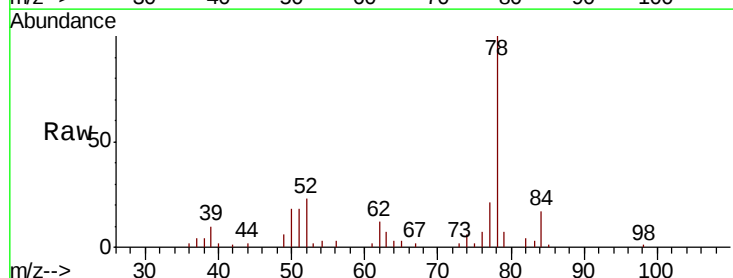
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Tgt Ion: 78 Resp: 21138



Abundance Ion 78.00 (77.70 to 78.70): VU0

12000

10000

8000

6000

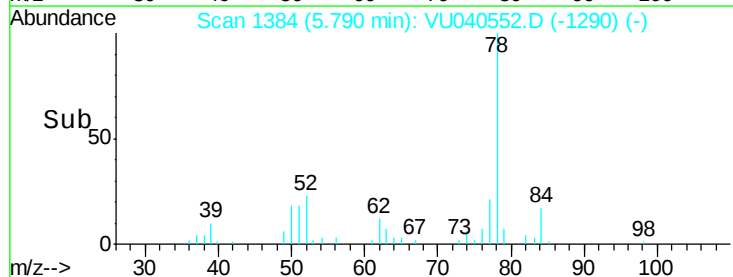
4000

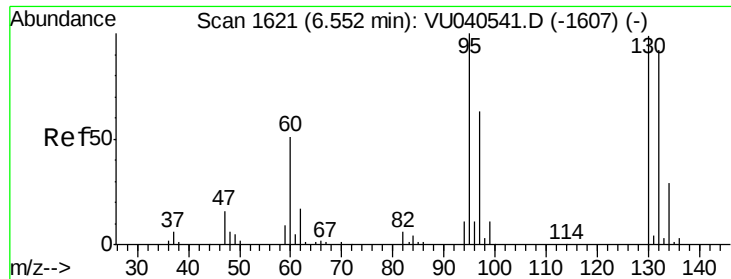
2000

0

Time-->

5.75 5.80 5.85

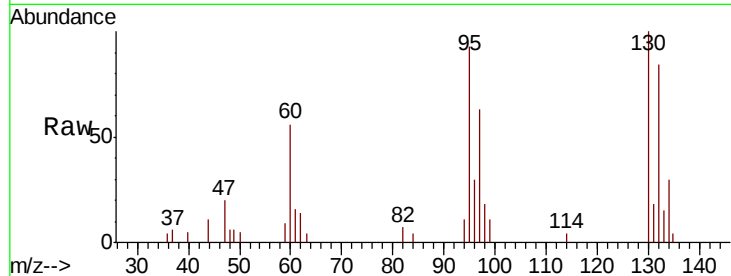




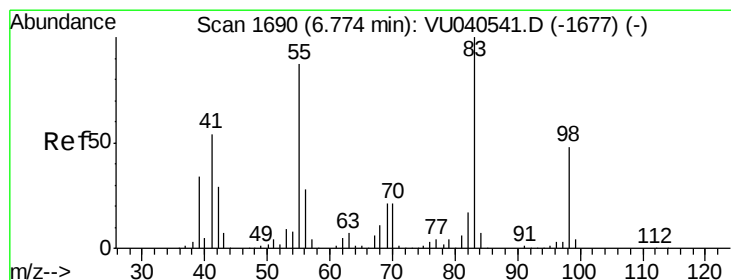
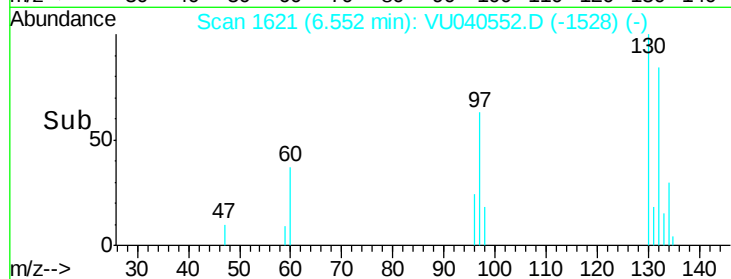
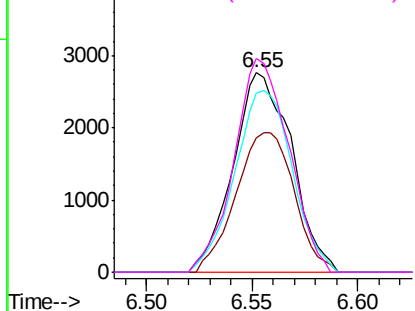
#34
 Trichloroethene
 Concen: 2.487 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion: 95 Resp: 5321
 Ion Ratio Lower Upper
 95 100
 97 67.5 44.3 82.3
 132 89.7 64.2 119.2
 130 107.0 67.3 125.1

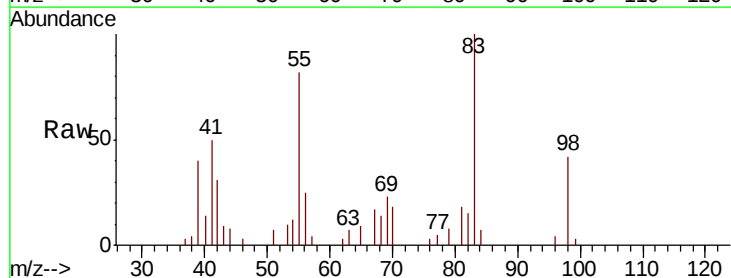


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

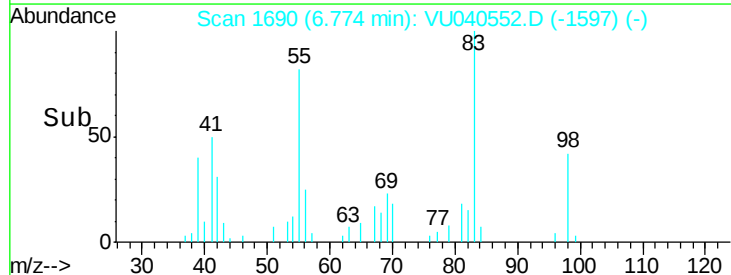
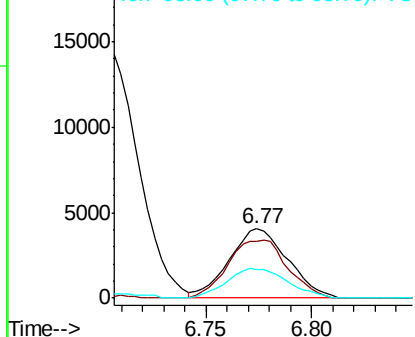


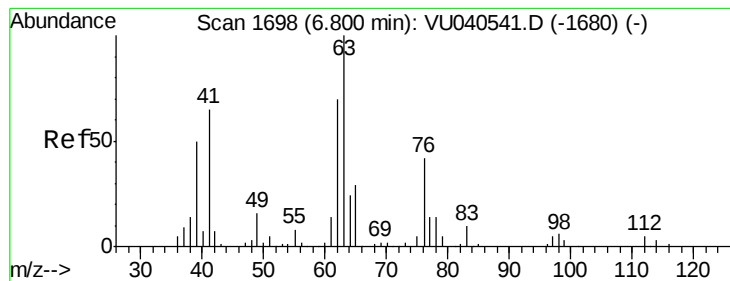
#35
 Methylcyclohexane
 Concen: 2.405 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

Tgt Ion: 83 Resp: 7820
 Ion Ratio Lower Upper
 83 100
 55 85.3 69.8 104.8
 98 44.3 39.1 58.7



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 2.754 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

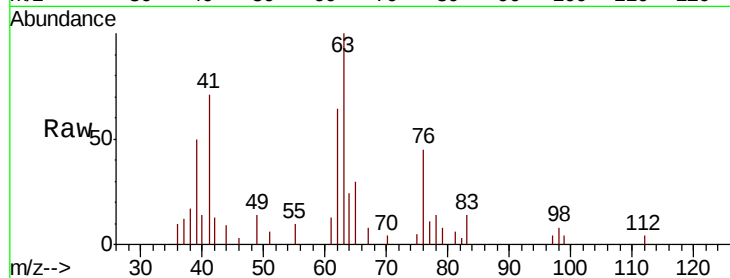
MDL-ME-SOIL-04

Tot Ion: 63 Resp: 6280

Ion Ratio Lower Upper

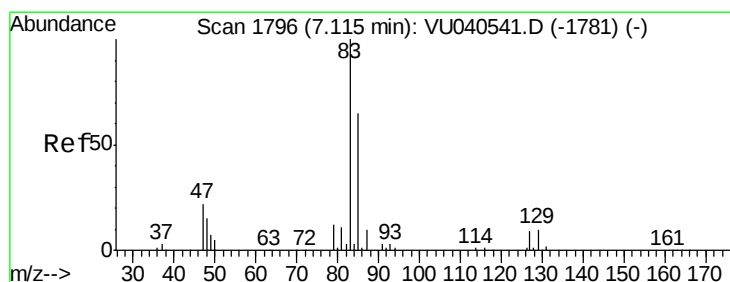
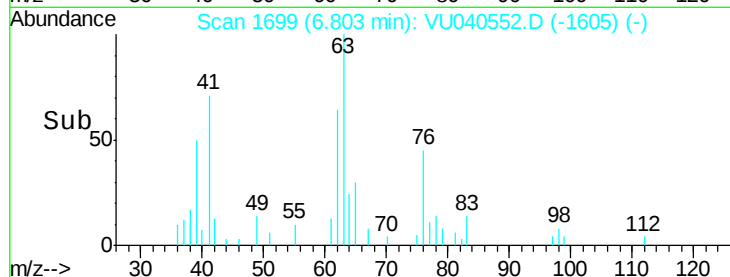
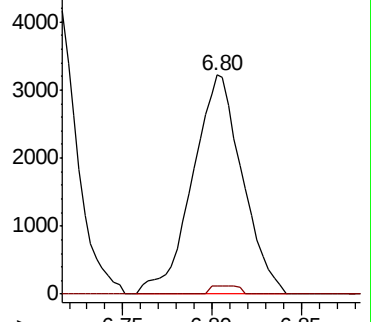
63 100

112 1.2 3.5 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VU040541.D (-1680) (-)

Ion 112.00 (111.70 to 112.70): VU040541.D (-1680) (-)



#38

Bromodichloromethane

Concen: 2.370 ug/L

RT: 7.12 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

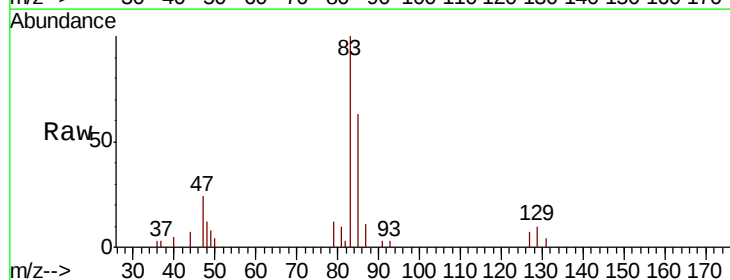
Tgt Ion: 83 Resp: 7019

Ion Ratio Lower Upper

83 100

85 62.6 45.2 84.0

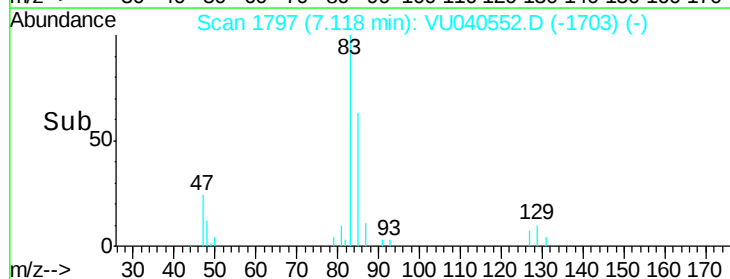
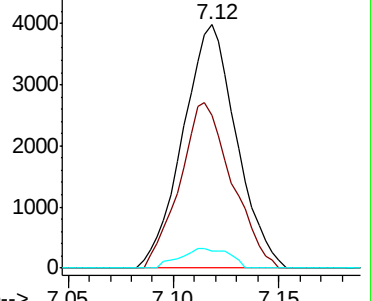
127 7.2 6.7 10.1

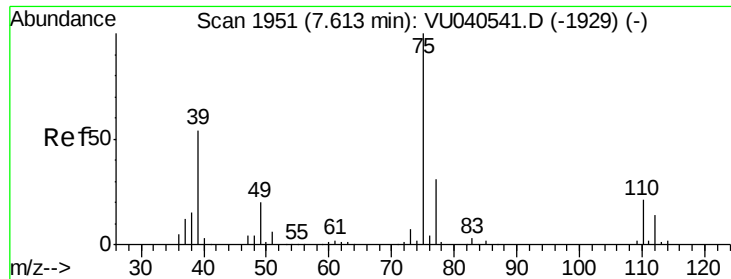


Abundance Ion 83.00 (82.70 to 83.70): VU040541.D (-1781) (-)

Ion 85.00 (84.70 to 85.70): VU040541.D (-1781) (-)

Ion 127.00 (126.70 to 127.70): VU040541.D (-1781) (-)

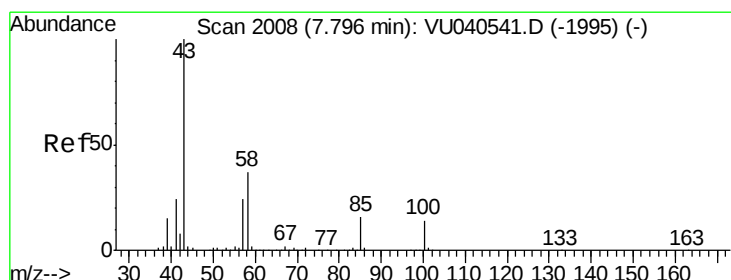
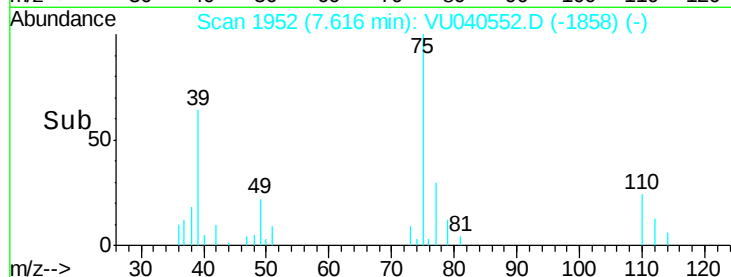
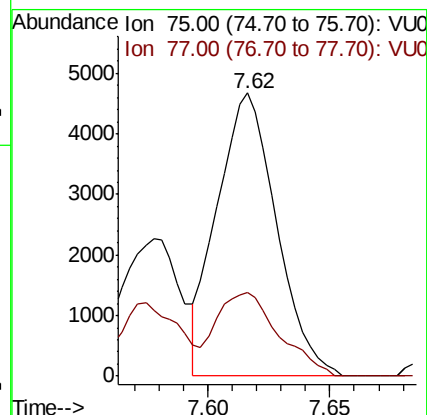
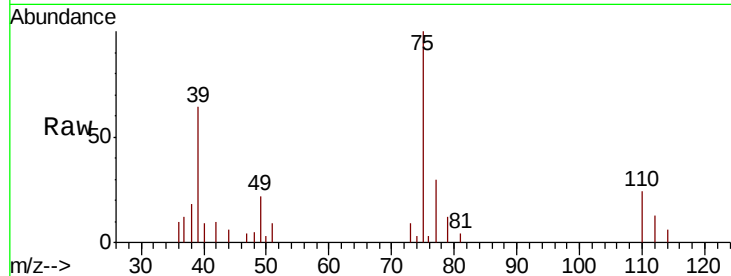




#39
 cis-1,3-Dichloropropene
 Concen: 2.365 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

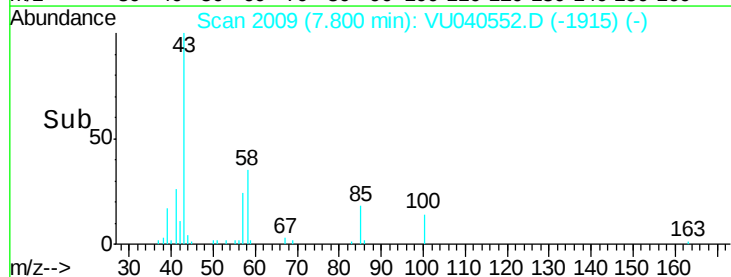
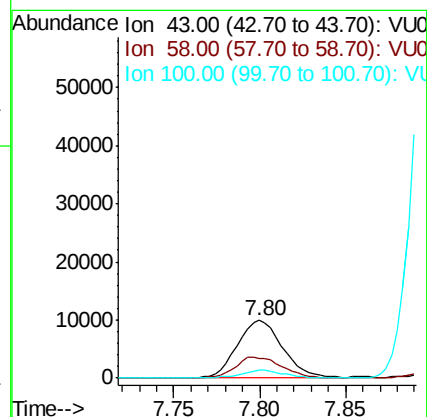
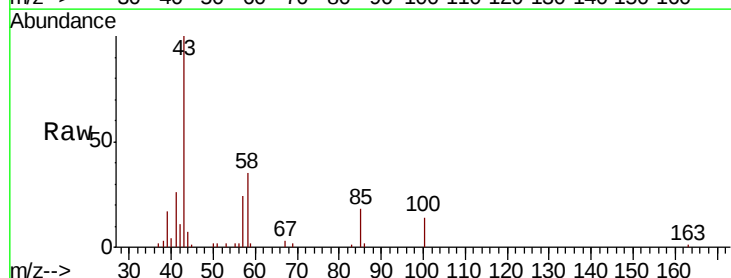
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-04

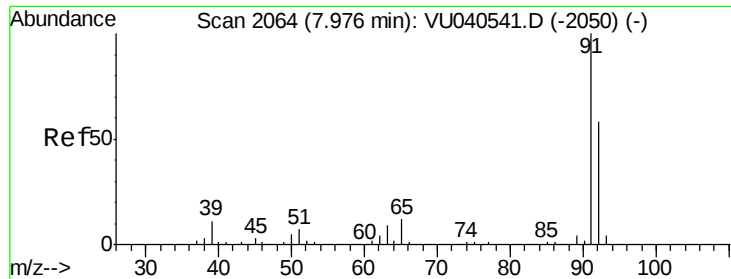
Tot Ion: 75 Resp: 7905
 Ion Ratio Lower Upper
 75 100
 77 29.7 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 5.086 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

Tgt Ion: 43 Resp: 18298
 Ion Ratio Lower Upper
 43 100
 58 37.3 29.7 44.5
 100 12.9 10.5 15.7





#42

Toluene

Concen: 2.393 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

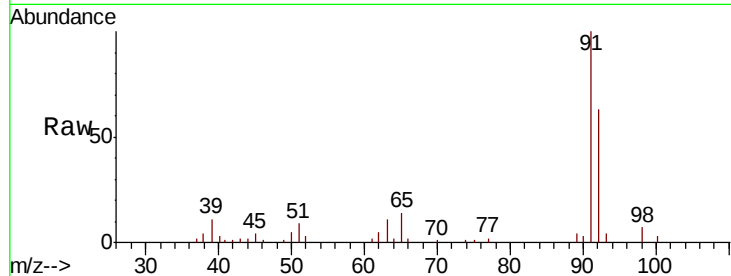
MDL-ME-SOIL-04

Tot Ion: 91 Resp: 20289

Ion Ratio Lower Upper

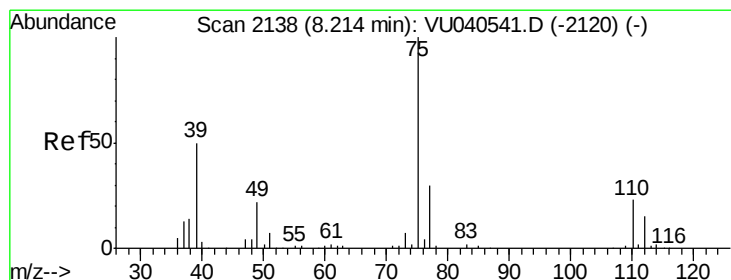
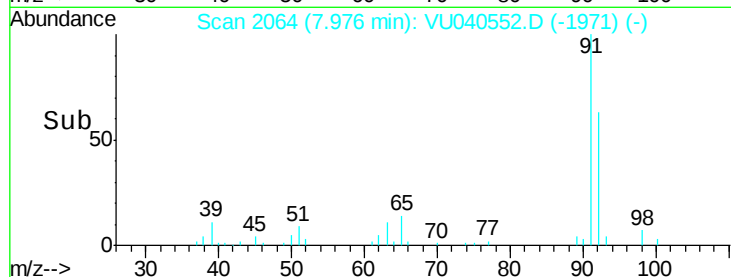
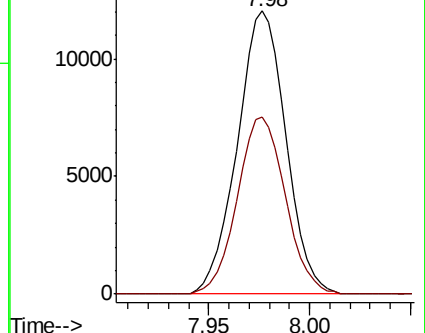
91 100

92 62.8 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU040541.D (-2050) (-)

Ion 92.00 (91.70 to 92.70): VU040541.D (-2050) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.556 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040552.D

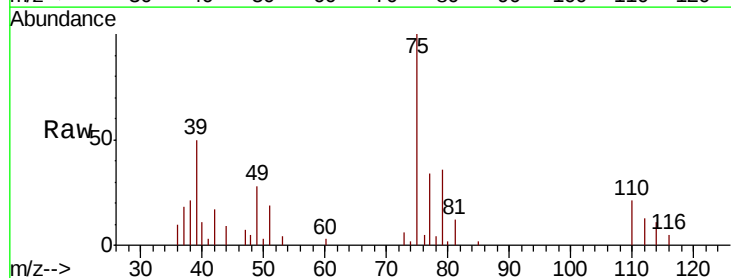
Acq: 07 Oct 2020 18:31

Tgt Ion: 75 Resp: 8602

Ion Ratio Lower Upper

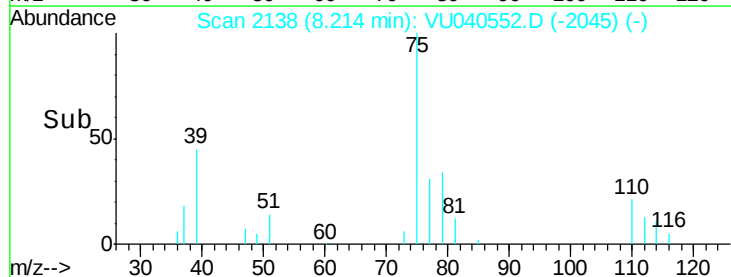
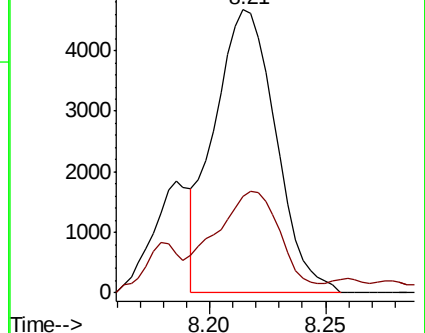
75 100

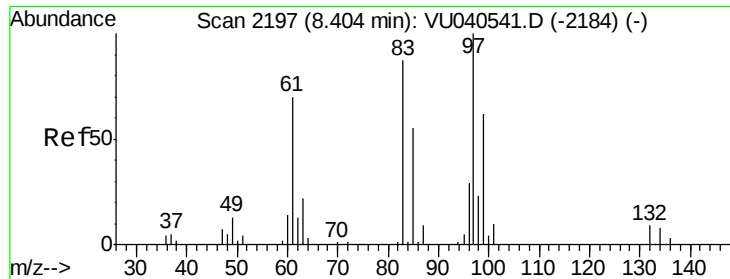
77 33.9 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU040541.D (-2120) (-)

Ion 77.00 (76.70 to 77.70): VU040541.D (-2120) (-)

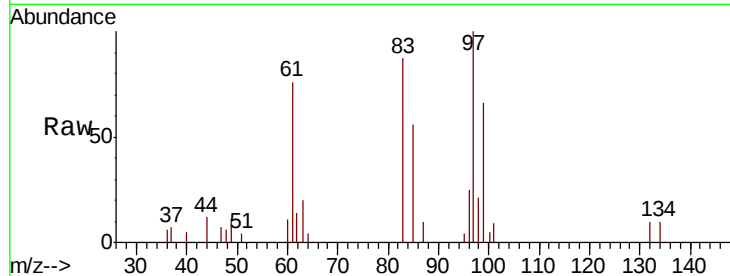




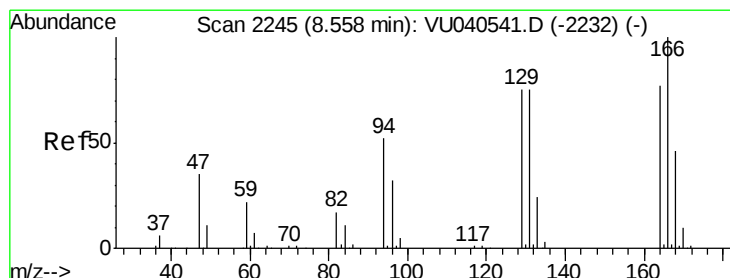
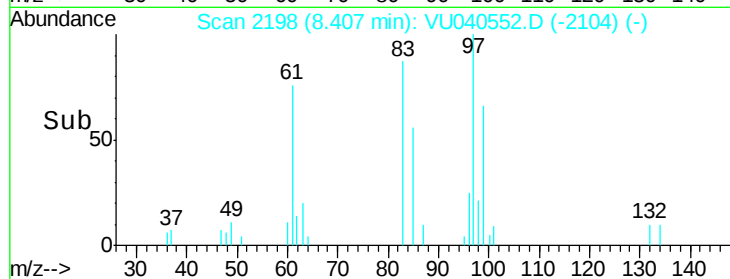
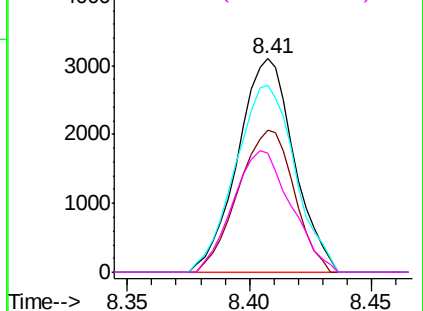
#45
1,1,2-Trichloroethane
Concen: 2.434 ug/L
RT: 8.41 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion:	97	Resp:	4972
Ion	Ratio	Lower	Upper
97	100		
99	66.4	42.7	79.3
83	87.3	61.0	113.4
85	55.6	39.8	73.8

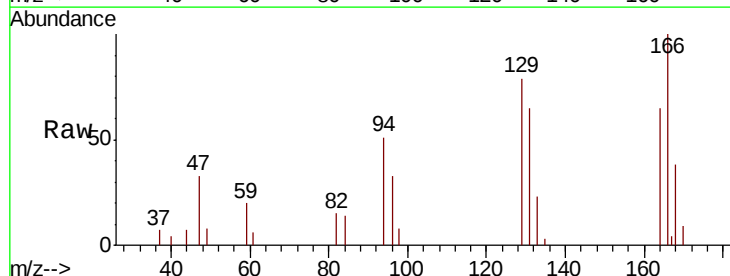


Abundance Ion 97.00 (96.70 to 97.70): VU040552.D (-2104) (-)

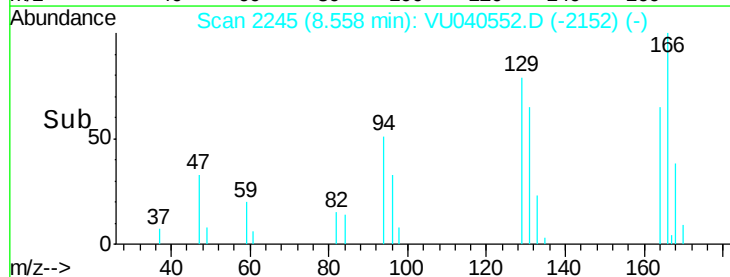
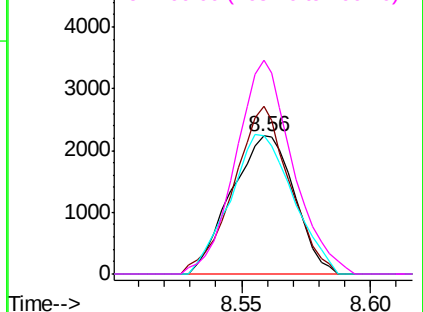


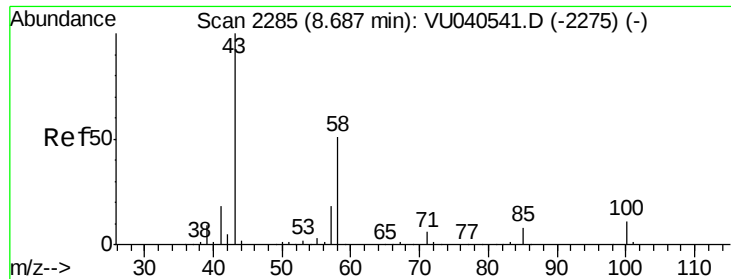
#46
Tetrachloroethene
Concen: 2.467 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.00 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Tgt Ion:	164	Resp:	3813
Ion	Ratio	Lower	Upper
164	100		
129	121.5	67.4	125.2
131	100.1	63.8	118.6
166	154.6	88.7	164.7



Abundance Ion 164.00 (163.70 to 164.70): VU040552.D (-2152) (-)

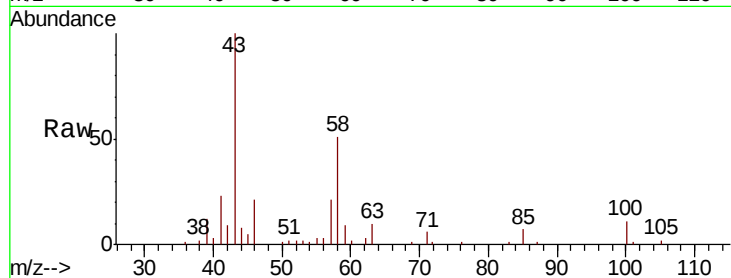




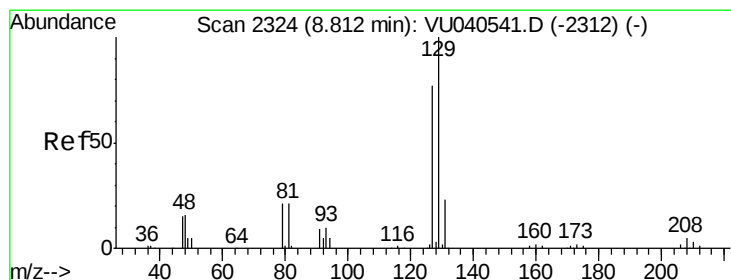
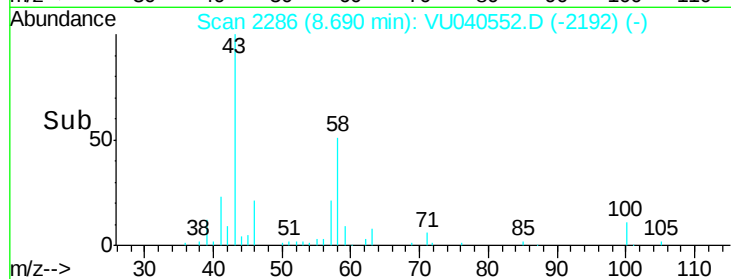
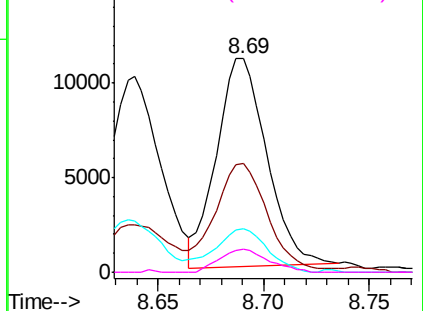
#48
2-Hexanone
Concen: 6.209 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion: 43 Resp: 18158
Ion Ratio Lower Upper
43 100
58 56.4 40.6 60.8
57 21.0 14.3 21.5
100 10.8 8.5 12.7

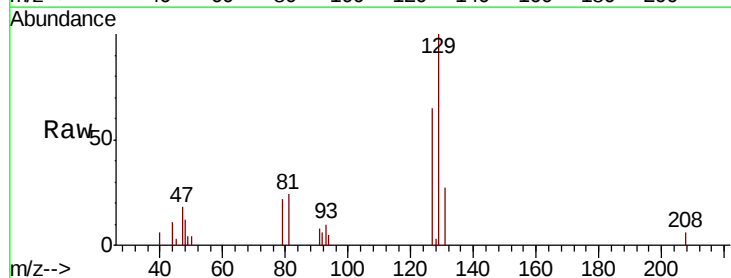


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

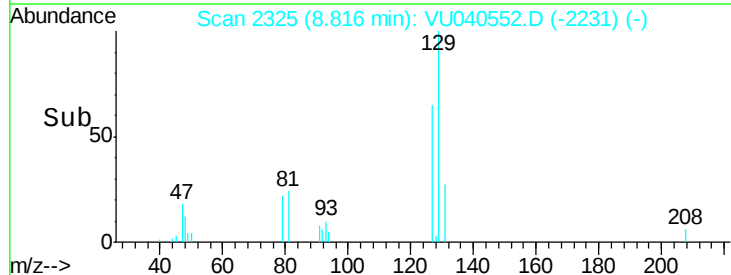
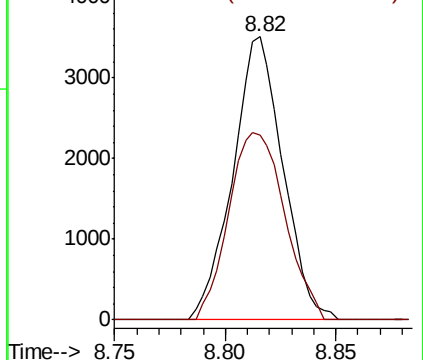


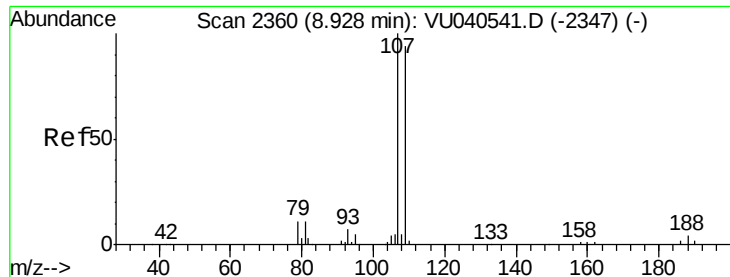
#49
Dibromochloromethane
Concen: 2.478 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Tgt Ion: 129 Resp: 5527
Ion Ratio Lower Upper
129 100
127 65.5 54.9 102.1



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

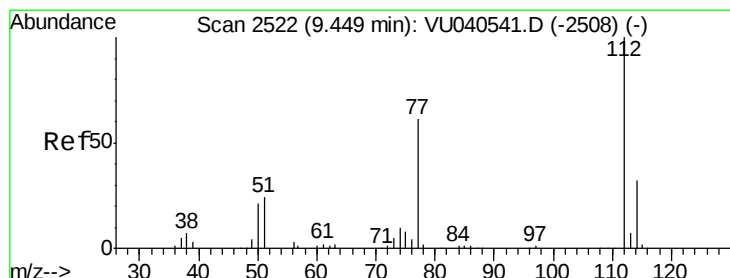
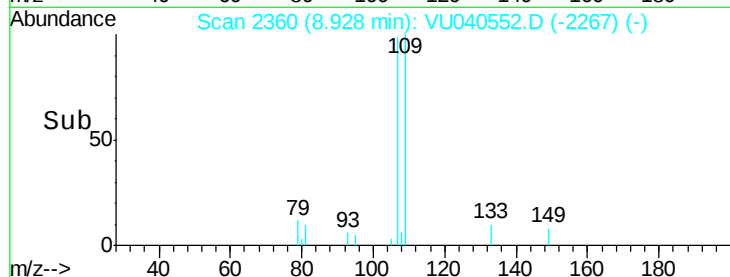
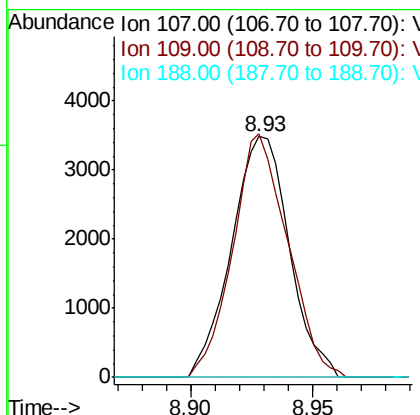
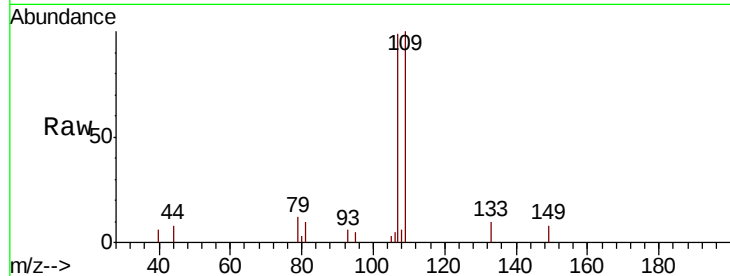




#50
 1,2-Dibromoethane
 Concen: 2.648 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

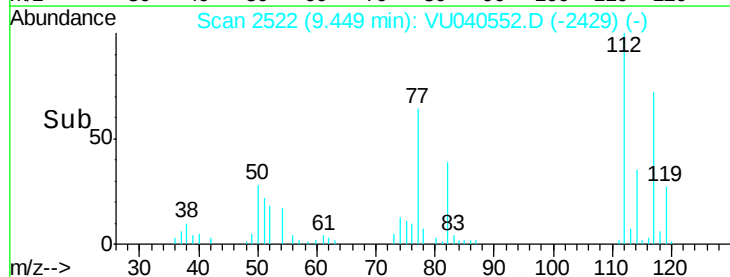
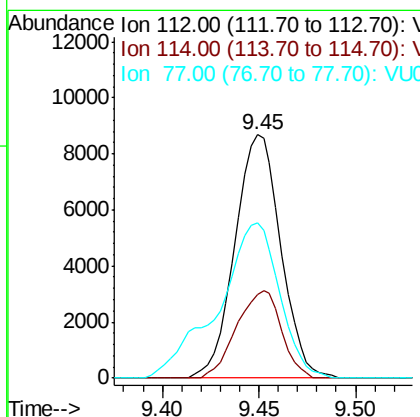
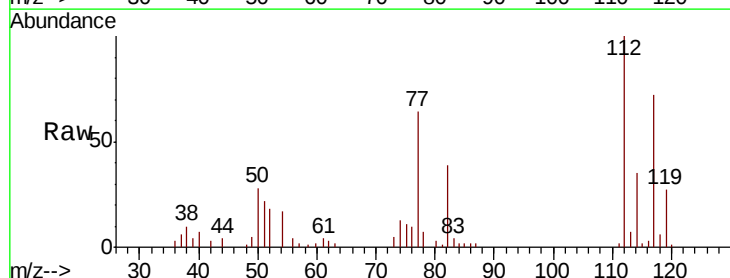
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-04

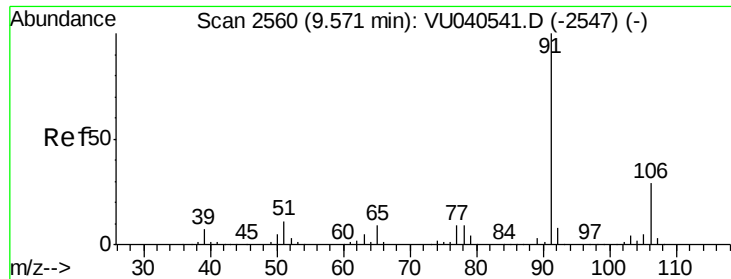
Tot Ion:107 Resp: 5734
 Ion Ratio Lower Upper
 107 100
 109 101.2 67.8 125.8
 188 0.0 2.8 4.2#



#51
 Chlorobenzene
 Concen: 2.571 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

Tgt Ion:112 Resp: 14294
 Ion Ratio Lower Upper
 112 100
 114 34.5 22.1 41.1
 77 63.7 50.4 75.6





#52

Ethylbenzene

Concen: 2.239 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

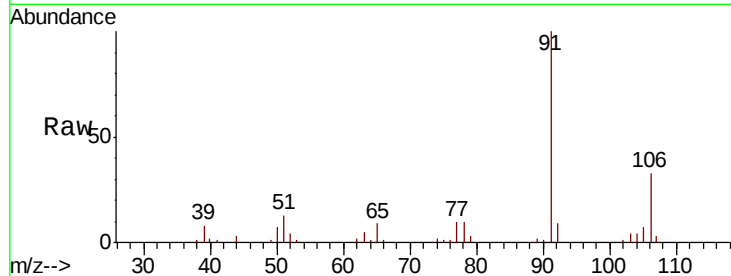
MDL-ME-SOIL-04

Tot Ion: 91 Resp: 21068

Ion Ratio Lower Upper

91 100

106 33.0 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU040541.D (-2547) (-)

Ion 106.00 (105.70 to 106.70): VU040541.D (-2547) (-)

9.57

15000

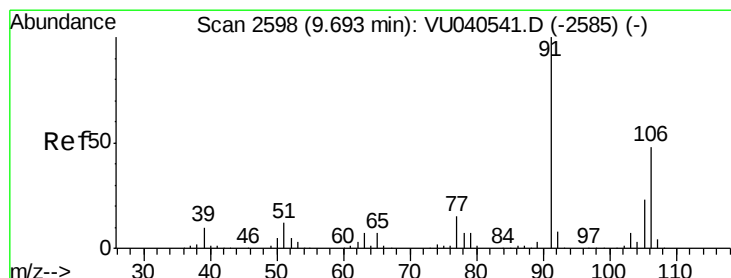
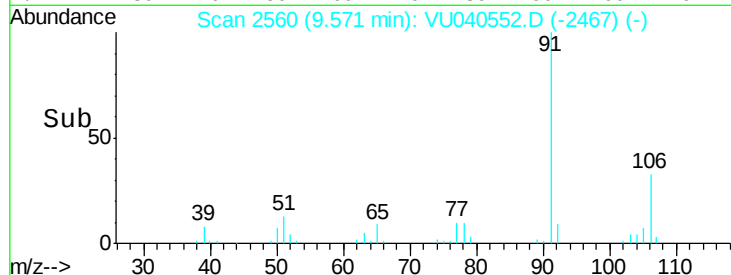
10000

5000

0

9.55 9.60

Time-->



#53

m,p-Xylene

Concen: 2.209 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040552.D

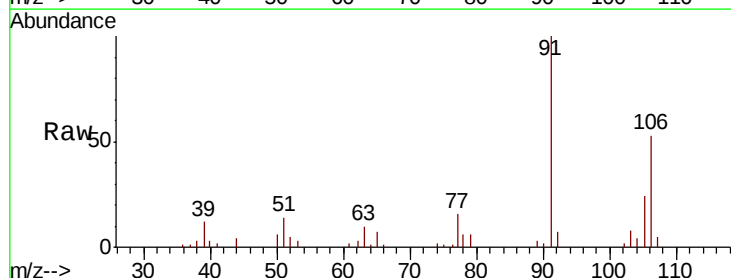
Acq: 07 Oct 2020 18:31

Tgt Ion: 106 Resp: 7653

Ion Ratio Lower Upper

106 100

91 190.4 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): VU040541.D (-2585) (-)

Ion 91.00 (90.70 to 91.70): VU040541.D (-2585) (-)

9.70

10000

8000

6000

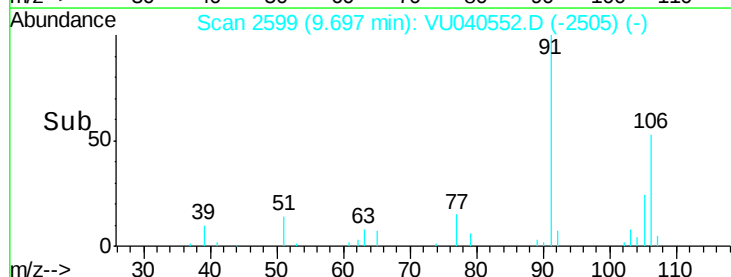
4000

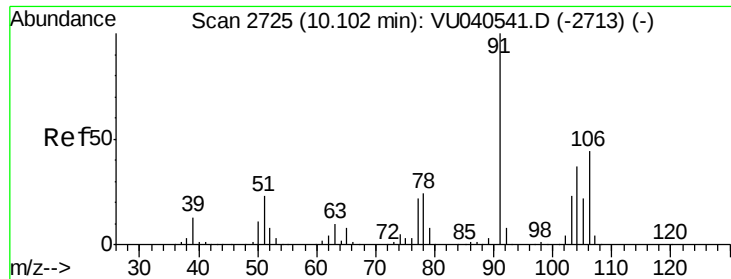
2000

0

9.65 9.70 9.75

Time-->





#54

o-xylene

Concen: 2.196 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

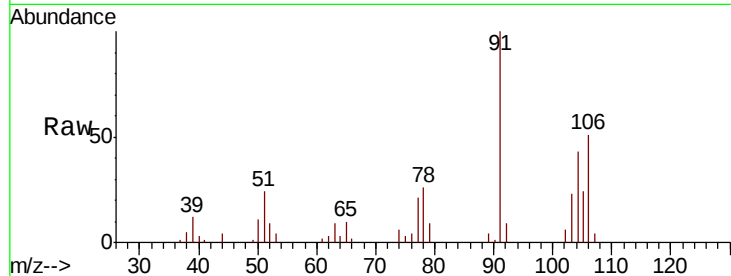
MDL-ME-SOIL-04

Tot Ion:106 Resp: 7241

Ion Ratio Lower Upper

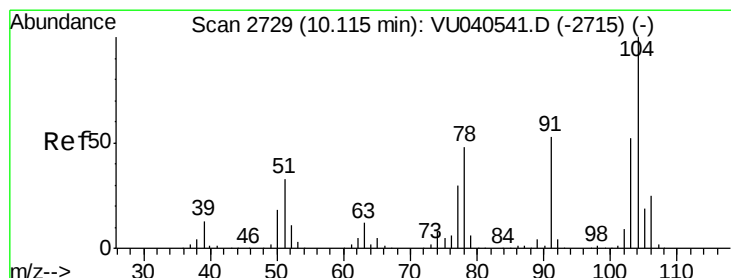
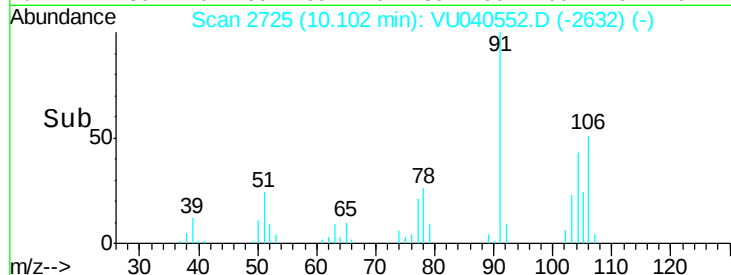
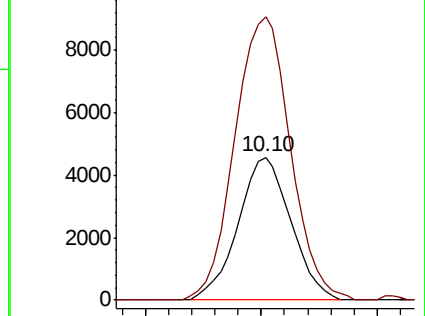
106 100

91 197.8 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.078 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU040552.D

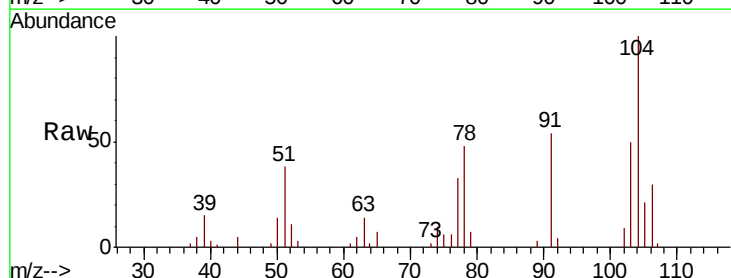
Acq: 07 Oct 2020 18:31

Tgt Ion:104 Resp: 12064

Ion Ratio Lower Upper

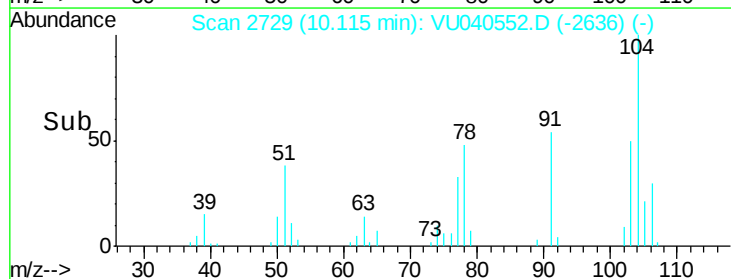
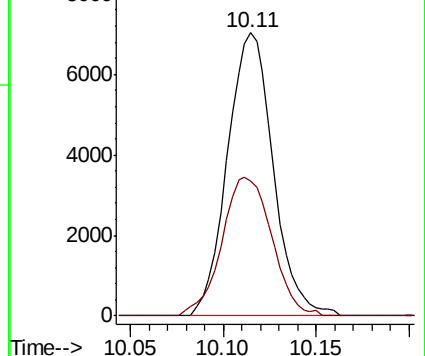
104 100

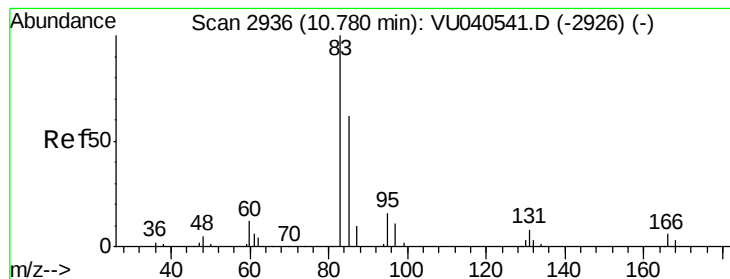
78 47.9 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.784 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-04

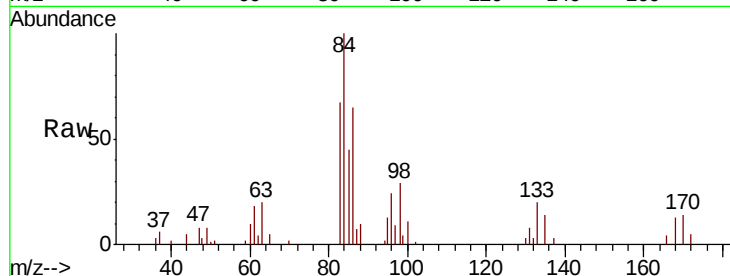
Tot Ion: 83 Resp: 10058

Ion Ratio Lower Upper

83 100

85 67.2 44.2 82.2

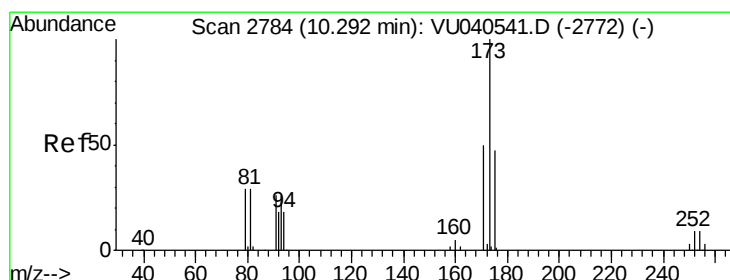
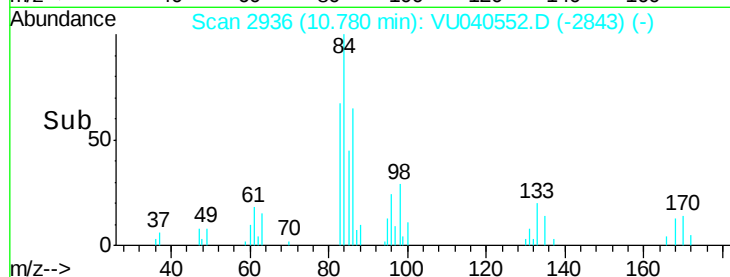
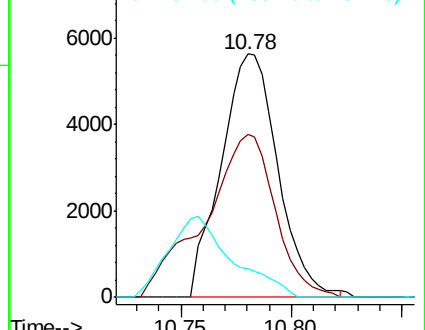
131 11.7 7.1 10.7#



Abundance Ion 83.00 (82.70 to 83.70): VU040541.D (-2926) (-)

Ion 85.00 (84.70 to 85.70): VU040541.D (-2926) (-)

Ion 131.00 (130.70 to 131.70): VU040541.D (-2926) (-)



#59

Bromoform

Concen: 2.387 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

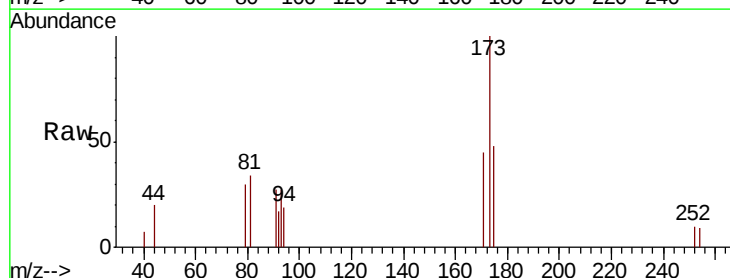
Tgt Ion: 173 Resp: 3606

Ion Ratio Lower Upper

173 100

175 49.0 38.5 57.7

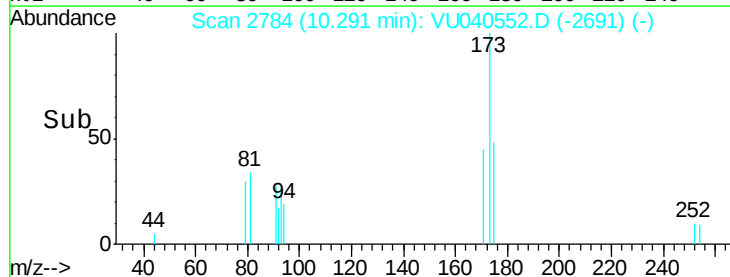
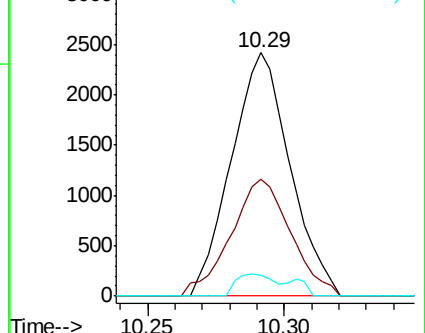
254 5.8 7.0 10.6#

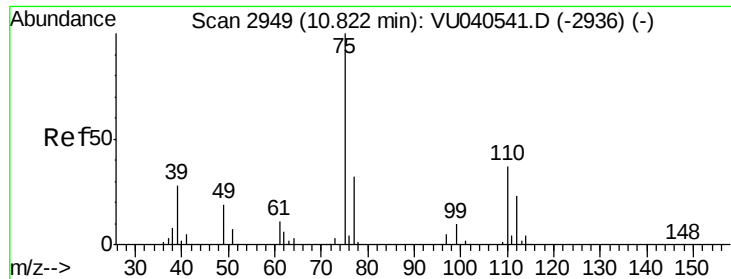


Abundance Ion 173.00 (172.70 to 173.70): VU040541.D (-2772) (-)

Ion 175.00 (174.70 to 175.70): VU040541.D (-2772) (-)

Ion 254.00 (253.70 to 254.70): VU040541.D (-2772) (-)

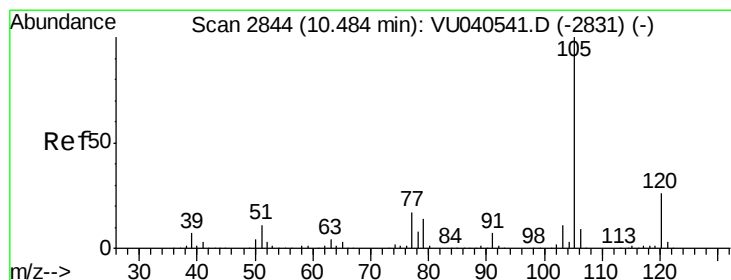
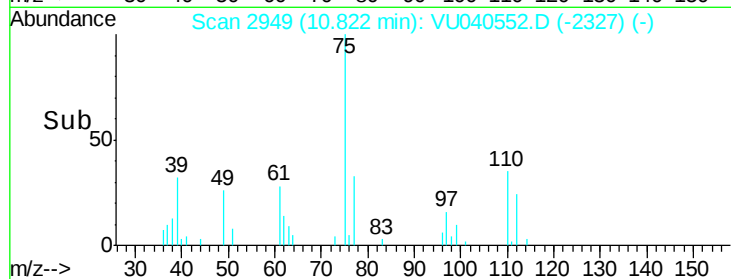
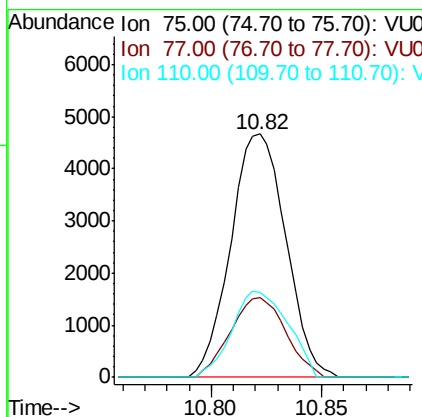
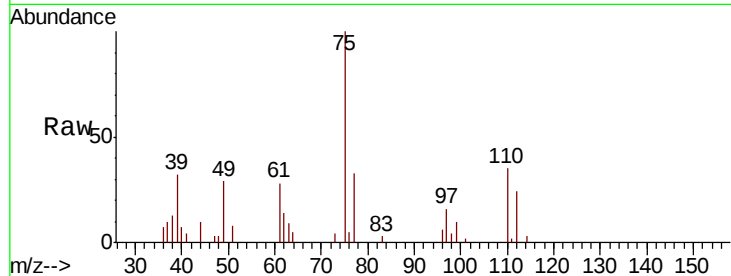




#60
 1,2,3-Trichloropropane
 Concen: 2.890 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

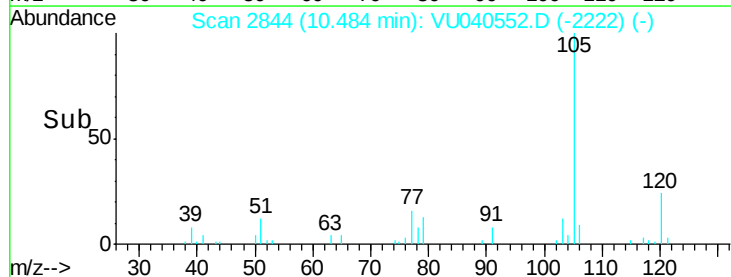
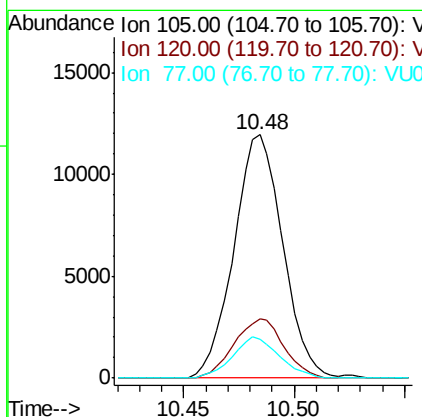
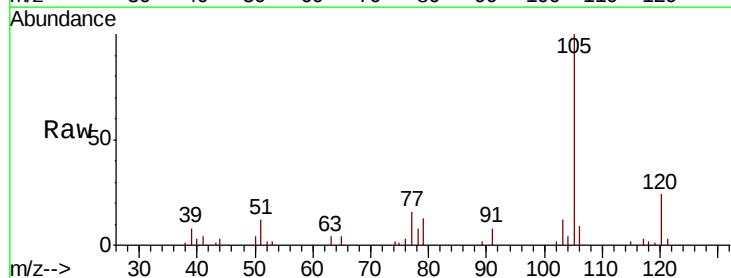
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-04

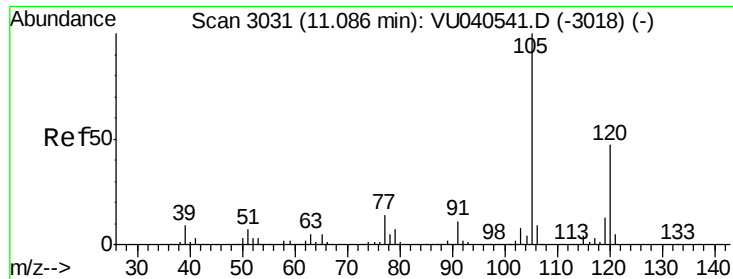
Tot Ion: 75 Resp: 8090
 Ion Ratio Lower Upper
 75 100
 77 32.9 26.4 39.6
 110 36.1 30.1 45.1



#61
 Isopropylbenzene
 Concen: 2.227 ug/L
 RT: 10.48 min Scan# 2844
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

Tgt Ion: 105 Resp: 18433
 Ion Ratio Lower Upper
 105 100
 120 24.6 20.7 31.1
 77 16.2 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 1.940 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. -0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

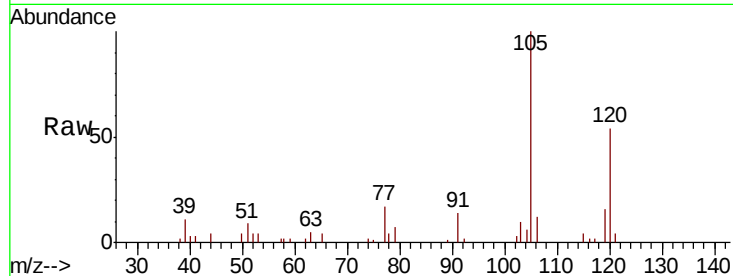
MDL-ME-SOIL-04

Tot Ion:105 Resp: 13191

Ion Ratio Lower Upper

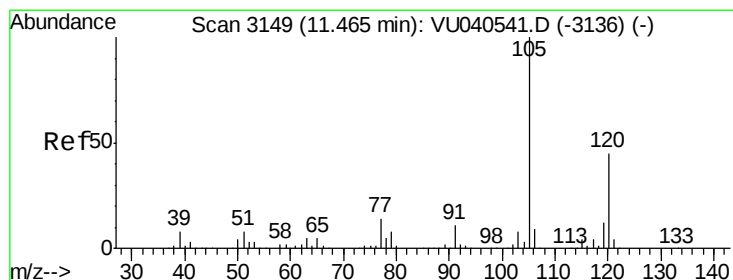
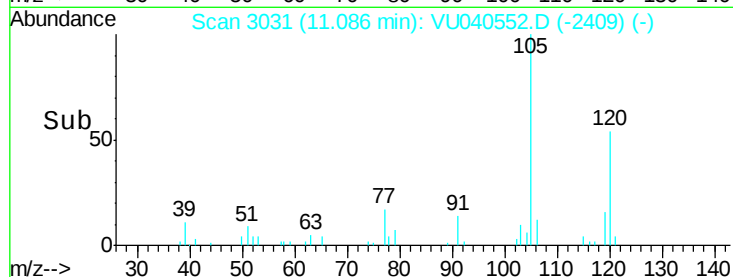
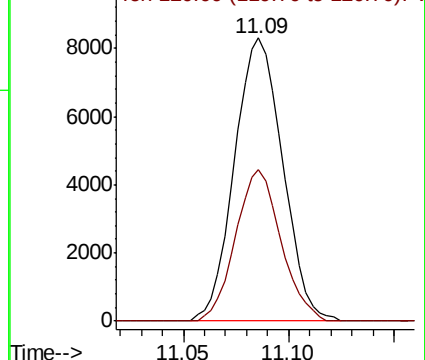
105 100

120 50.3 38.6 58.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 1.952 ug/L

RT: 11.47 min Scan# 3149

Delta R.T. -0.00 min

Lab File: VU040552.D

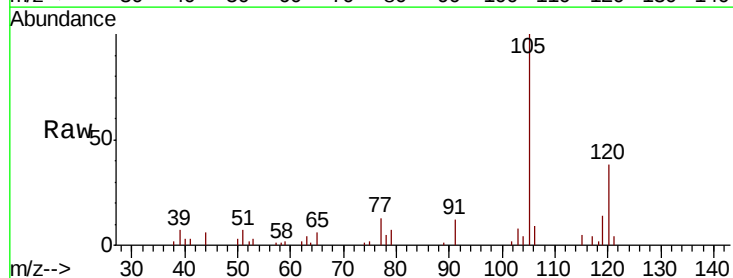
Acq: 07 Oct 2020 18:31

Tgt Ion:105 Resp: 13461

Ion Ratio Lower Upper

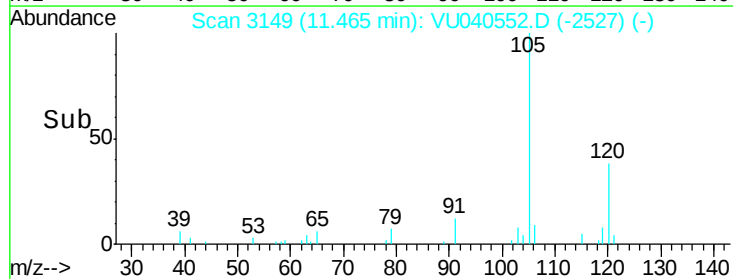
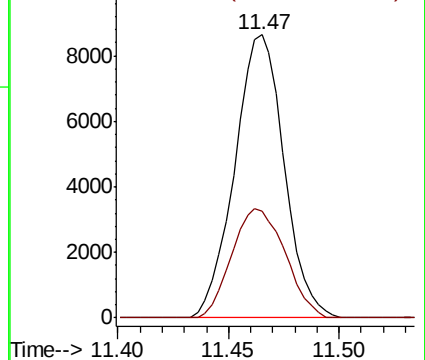
105 100

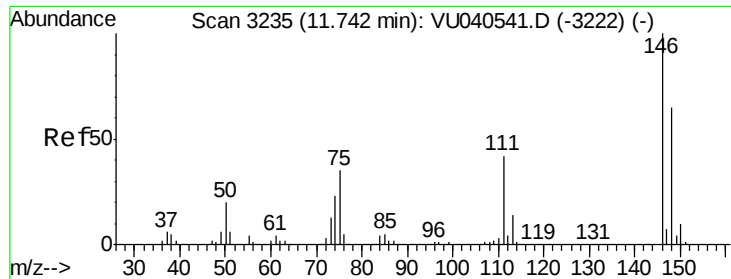
120 41.5 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

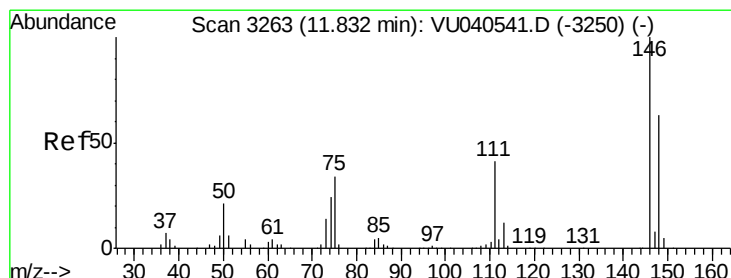
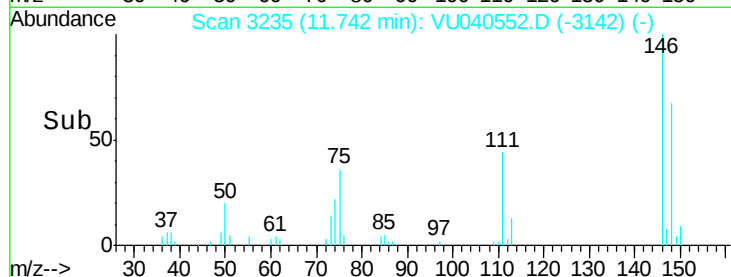
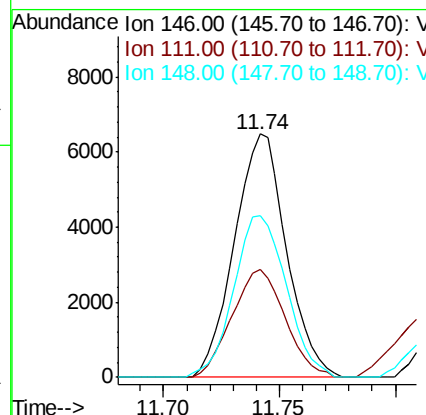
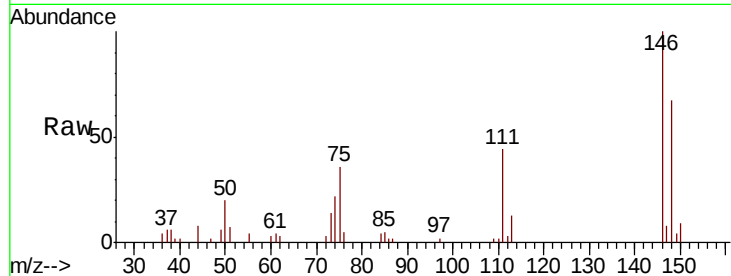




#64
 1,3-Dichlorobenzene
 Concen: 2.506 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

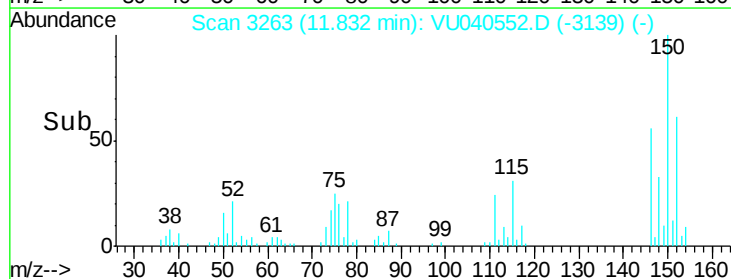
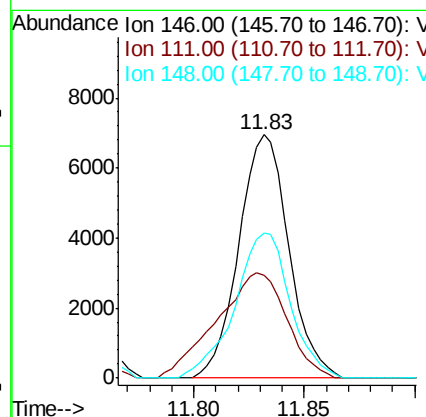
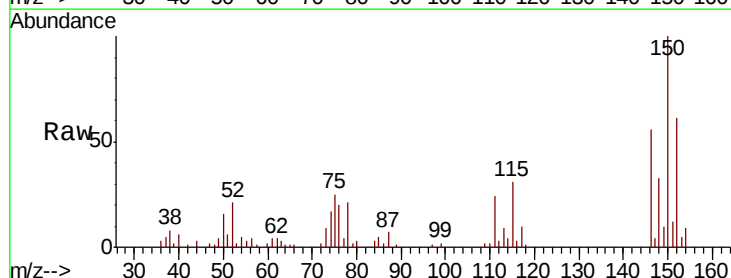
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-04

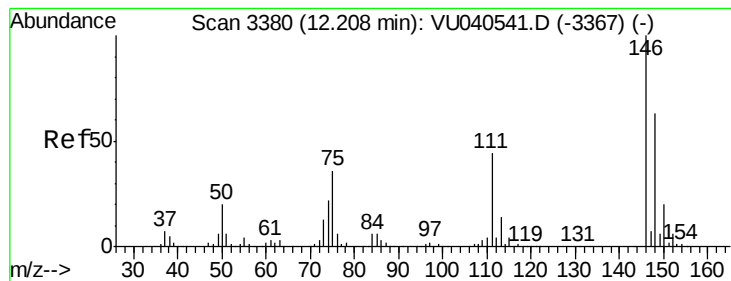
Tot Ion:146 Resp: 10113
 Ion Ratio Lower Upper
 146 100
 111 44.2 30.8 57.2
 148 66.5 45.4 84.2



#65
 1,4-Dichlorobenzene
 Concen: 2.585 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

Tgt Ion:146 Resp: 10957
 Ion Ratio Lower Upper
 146 100
 111 42.5 28.7 53.3
 148 59.3 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 2.988 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-04

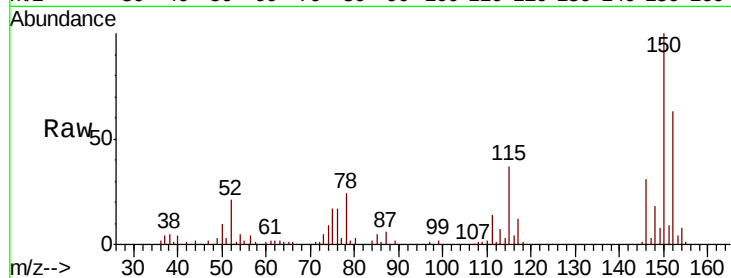
Tot Ion:146 Resp: 12079

Ion Ratio Lower Upper

146 100

111 46.7 35.7 53.5

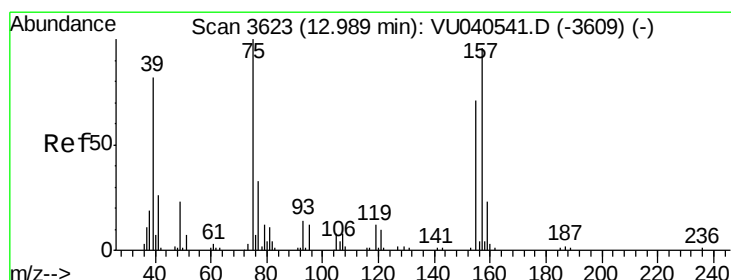
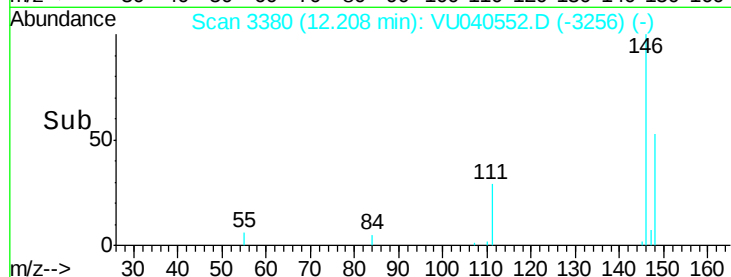
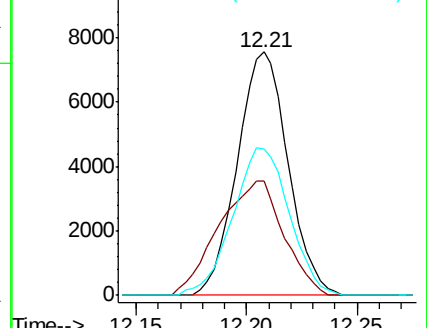
148 60.2 50.6 75.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 3.474 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU040552.D

Acq: 07 Oct 2020 18:31

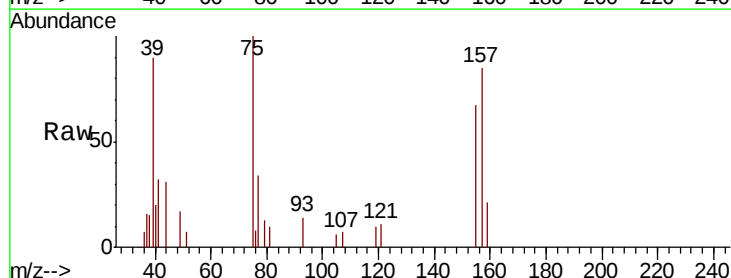
Tgt Ion: 75 Resp: 2732

Ion Ratio Lower Upper

75 100

155 66.6 61.0 91.6

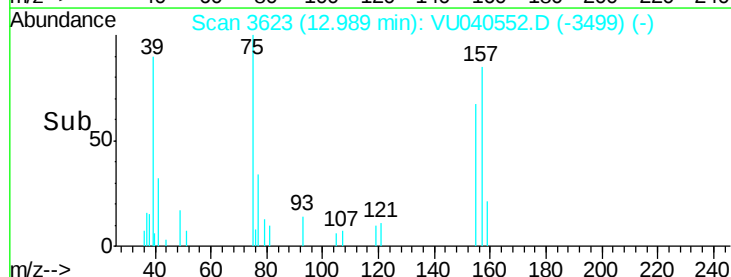
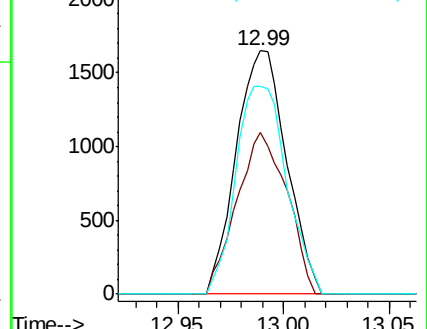
157 85.5 73.5 110.3

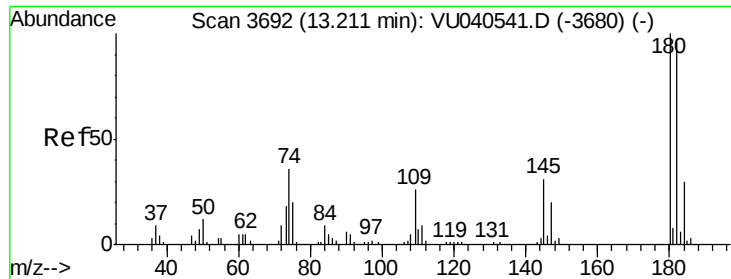


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

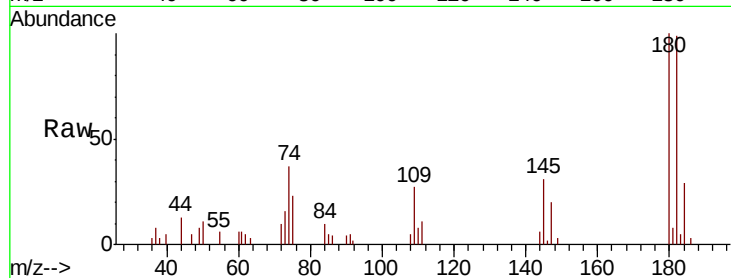




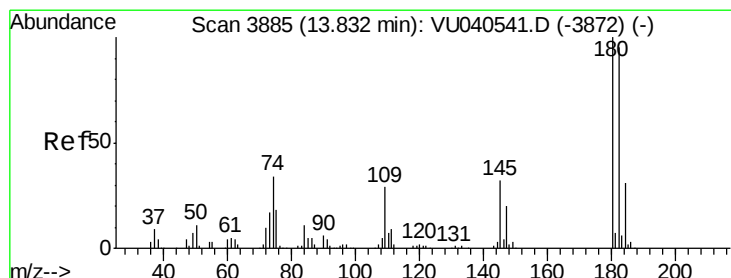
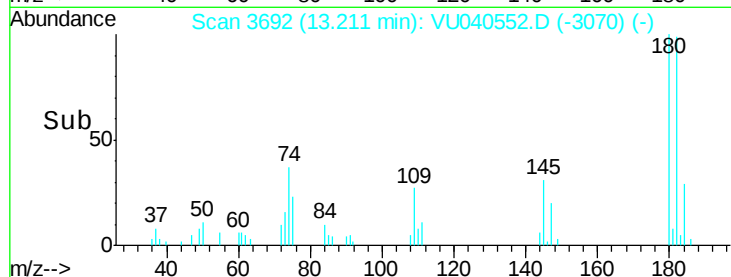
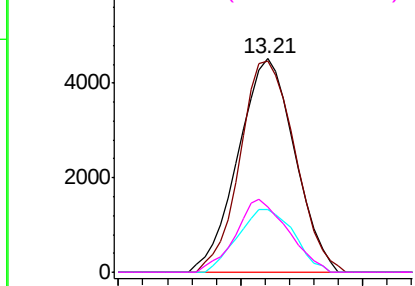
#69
 1,3,5-Trichlorobenzene
 Concen: 2.752 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion:180 Resp: 7277
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.9 115.3
 184 29.3 24.2 36.2
 145 31.7 25.4 38.2

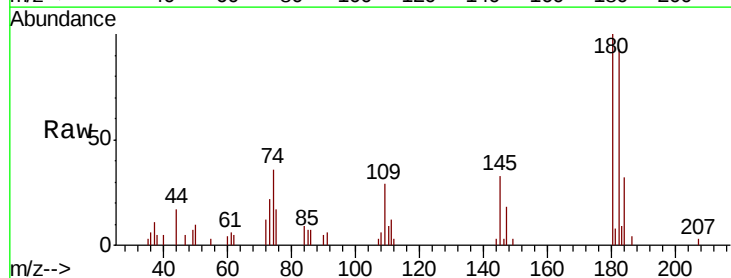


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

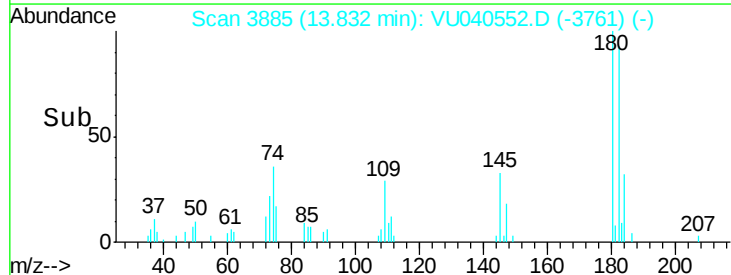
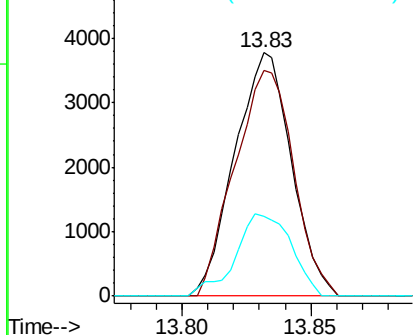


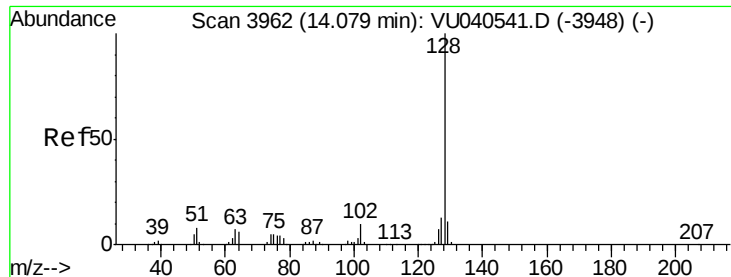
#70
 1,2,4-trichlorobenzene
 Concen: 2.534 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040552.D
 Acq: 07 Oct 2020 18:31

Tgt Ion:180 Resp: 5807
 Ion Ratio Lower Upper
 180 100
 182 96.0 75.0 112.6
 145 31.3 25.9 38.9



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

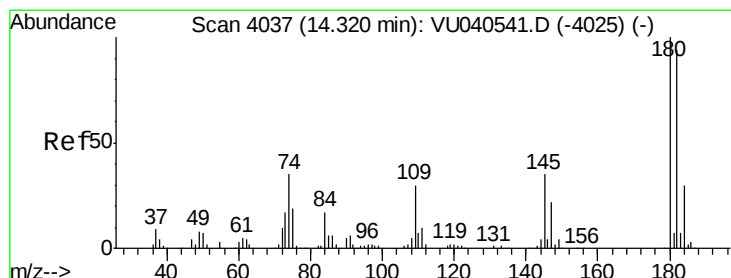
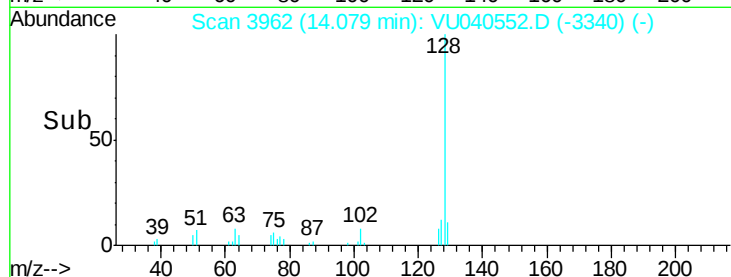
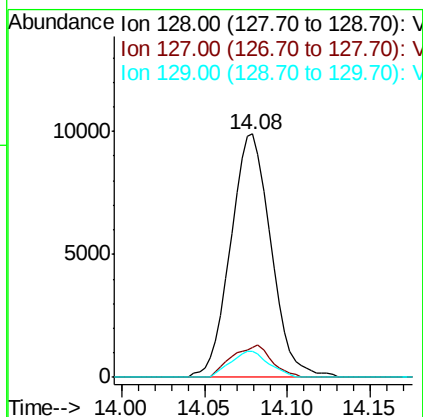
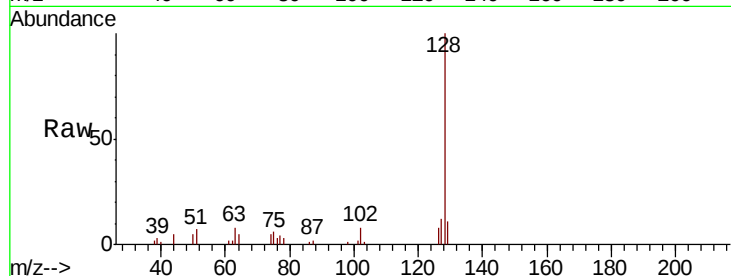




#71
Naphthalene
Concen: 2.366 ug/L
RT: 14.08 min Scan# 3962
Delta R.T. -0.00 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion:128 Resp: 16763
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 10.1 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 2.588 ug/L
RT: 14.32 min Scan# 4037
Delta R.T. -0.00 min
Lab File: VU040552.D
Acq: 07 Oct 2020 18:31

Tgt Ion:180 Resp: 5888
Ion Ratio Lower Upper
180 100
182 96.8 77.7 116.5
145 35.1 28.4 42.6

