

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100620\
 Data File : VU040538.D
 Acq On : 06 Oct 2020 19:44
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.0µ/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL-ME-SOIL-02

Quant Time: Oct 07 08:15:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 07 08:04:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	277320	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	276663	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	128181	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	111138	46.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.32%
7) Chloroethane-d5	1.92	69	87681	48.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.64%
11) 1,1-Dichloroethene-d2	2.58	63	166846	36.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.42%
21) 2-Butanone-d5	4.64	46	191361	101.24	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.24%
24) Chloroform-d	5.08	84	199762	48.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.26%
26) 1,2-Dichloroethane-d4	5.72	65	139002	48.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.16%
32) Benzene-d6	5.74	84	389870	49.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.02%
36) 1,2-Dichloropropane-d6	6.70	67	129639	49.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.24%
41) Toluene-d8	7.91	98	341390	47.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.66%
43) trans-1,3-Dichloropropene-	8.19	79	61026	46.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.40%
47) 2-Hexanone-d5	8.64	63	124178	100.94	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.94%
56) 1,1,2,2-Tetrachloroethane-	10.76	84	180065	47.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.48%
66) 1,2-Dichlorobenzene-d4	12.19	152	130715	50.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.22%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	5580	2.090 ug/L	97
3) Chloromethane	1.53	50	6177	2.201 ug/L	90
5) Vinyl chloride	1.61	62	6485	2.334 ug/L #	56
6) Bromomethane	1.86	94	3206	2.198 ug/L	100
8) Chloroethane	1.94	64	3722	2.220 ug/L	99
9) Trichlorofluoromethane	2.15	101	7771	2.180 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	5960	2.805 ug/L #	70
12) 1,1-Dichloroethene	2.59	96	5617	2.860 ug/L #	1
13) Acetone	2.64	43	6278	3.459 ug/L	99
14) Carbon disulfide	2.81	76	13625	2.021 ug/L	99
15) Methyl Acetate	2.96	43	6433	2.173 ug/L	95
16) Methylene chloride	3.06	84	5578	2.395 ug/L	83
17) trans-1,2-Dichloroethene	3.37	96	4642	2.219 ug/L	90
18) Methyl tert-butyl Ether	3.38	73	13410	2.038 ug/L #	90
19) 1,1-Dichloroethane	3.89	63	9036	2.166 ug/L	90
20) cis-1,2-Dichloroethene	4.68	96	4943	2.192 ug/L	88
22) 2-Butanone	4.72	43	9240	3.990 ug/L	94

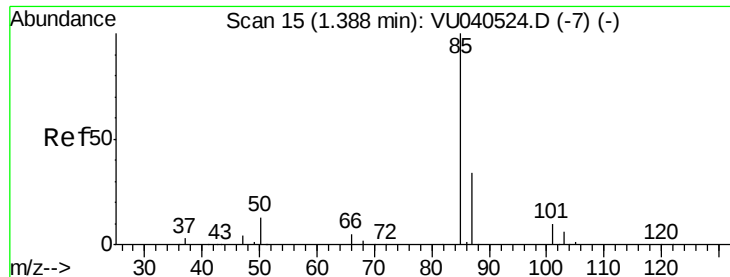
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100620\
 Data File : VU040538.D
 Acq On : 06 Oct 2020 19:44
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.0µ/5.0mL/100µL/5.0mL/MSVOA_U/MEOH
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Quant Time: Oct 07 08:15:17 2020
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	2188	1.862	ug/L	83
25) Chloroform	5.11	83	12351	2.903	ug/L	96
27) 1,2-Dichloroethane	5.81	62	8208	2.338	ug/L	98
29) Cyclohexane	5.41	56	7122	1.923	ug/L #	88
30) 1,1,1-Trichloroethane	5.33	97	7369	2.074	ug/L	97
31) Carbon tetrachloride	5.54	117	6296	2.049	ug/L	92
33) Benzene	5.79	78	19704	2.203	ug/L	100
34) Trichloroethene	6.56	95	4876	2.117	ug/L	97
35) Methylcyclohexane	6.77	83	6901	1.970	ug/L	94
37) 1,2-Dichloropropane	6.80	63	5780	2.354	ug/L #	96
38) Bromodichloromethane	7.11	83	6518	2.043	ug/L	88
39) cis-1,3-Dichloropropene	7.62	75	7259	2.017	ug/L	94
40) 4-Methyl-2-pentanone	7.80	43	15112	3.900	ug/L	96
42) Toluene	7.98	91	20246	2.218	ug/L	97
44) trans-1,3-Dichloropropene	8.22	75	7135	1.969	ug/L	98
45) 1,1,2-Trichloroethane	8.40	97	5079	2.309	ug/L	91
46) Tetrachloroethene	8.56	164	3461	2.079	ug/L	97
48) 2-Hexanone	8.69	43	14993	4.761	ug/L	99
49) Dibromochloromethane	8.81	129	4732	1.970	ug/L	88
50) 1,2-Dibromoethane	8.93	107	5186	2.224	ug/L #	86
51) Chlorobenzene	9.45	112	12851	2.146	ug/L	93
52) Ethylbenzene	9.57	91	19866	1.960	ug/L	97
53) m,p-Xylene	9.70	106	6693	1.794	ug/L	90
54) o-xylene	10.10	106	6581	1.854	ug/L	90
55) Styrene	10.11	104	10815	1.729	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.78	83	7669	1.971	ug/L #	86
59) Bromoform	10.29	173	3402	2.165	ug/L #	95
60) 1,2,3-Trichloropropane	10.82	75	6621	2.274	ug/L	99
61) Isopropylbenzene	10.48	105	16562	1.924	ug/L	96
62) 1,3,5-Trimethylbenzene	11.09	105	12551	1.775	ug/L	95
63) 1,2,4-Trimethylbenzene	11.47	105	11903	1.659	ug/L	99
64) 1,3-Dichlorobenzene	11.74	146	9053	2.157	ug/L	96
65) 1,4-Dichlorobenzene	11.83	146	9897	2.245	ug/L	95
67) 1,2-Dichlorobenzene	12.21	146	10091	2.400	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.99	75	1598	1.953	ug/L	88
69) 1,3,5-Trichlorobenzene	13.21	180	5395	1.962	ug/L	96
70) 1,2,4-trichlorobenzene	13.83	180	4432	1.859	ug/L	97
71) Naphthalene	14.08	128	10014	1.359	ug/L	97
72) 1,2,3-Trichlorobenzene	14.32	180	4158	1.757	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 2.090 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

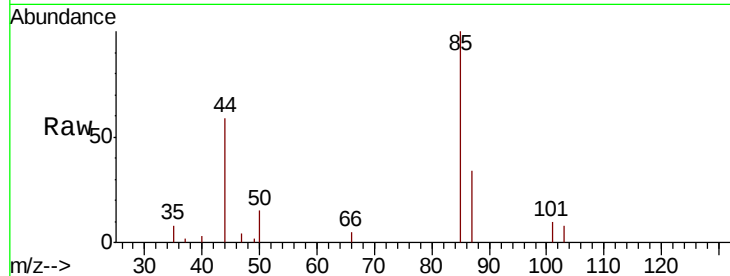
MDL-ME-SOIL-02

Tot Ion: 85 Resp: 5580

Ion Ratio Lower Upper

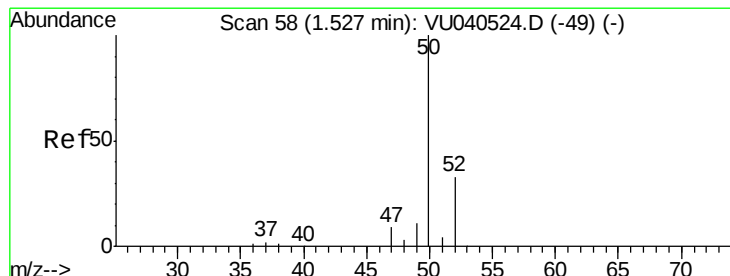
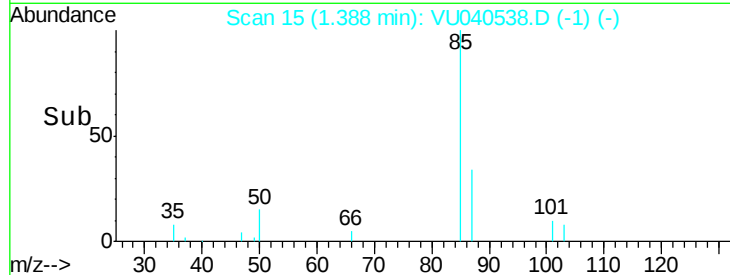
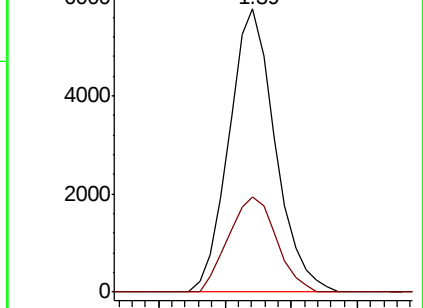
85 100

87 34.9 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU040524.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU040524.D (-7) (-)



#3

Chloromethane

Concen: 2.201 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040538.D

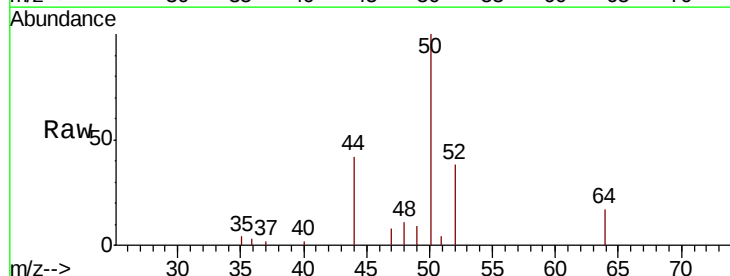
Acq: 06 Oct 2020 19:44

Tgt Ion: 50 Resp: 6177

Ion Ratio Lower Upper

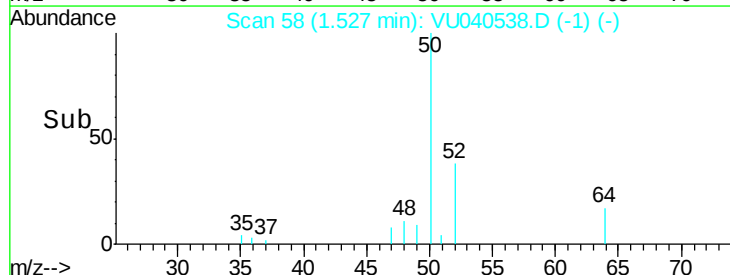
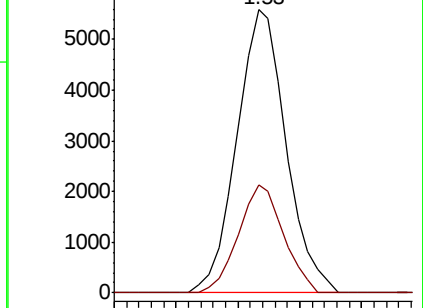
50 100

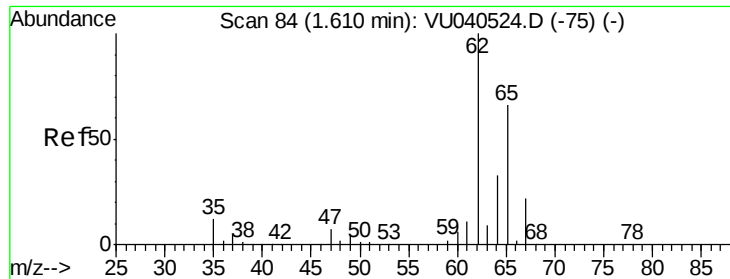
52 38.3 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU040524.D (-49) (-)

Ion 52.00 (51.70 to 52.70): VU040524.D (-49) (-)





#5

Vinyl chloride

Concen: 2.334 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

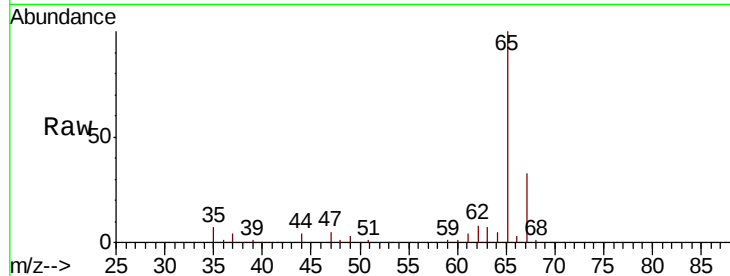
MDL-ME-SOIL-02

Tot Ion: 62 Resp: 6485

Ion Ratio Lower Upper

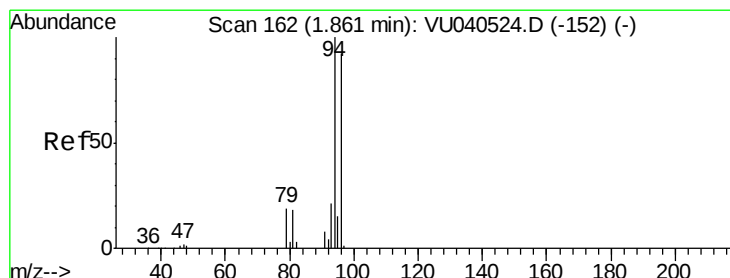
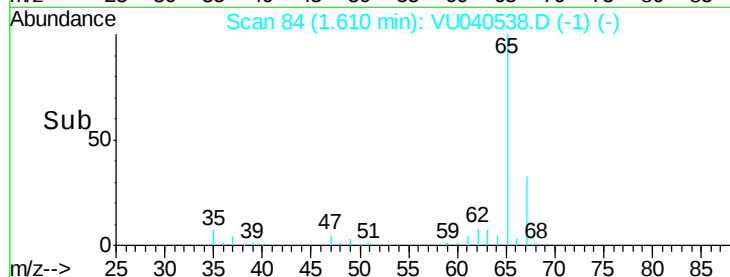
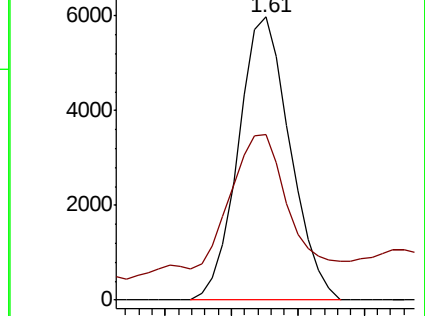
62 100

64 58.5 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VU040524.D (-75) (-)

Ion 64.00 (63.70 to 64.70): VU040524.D (-75) (-)



#6

Bromomethane

Concen: 2.198 ug/L

RT: 1.86 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU040538.D

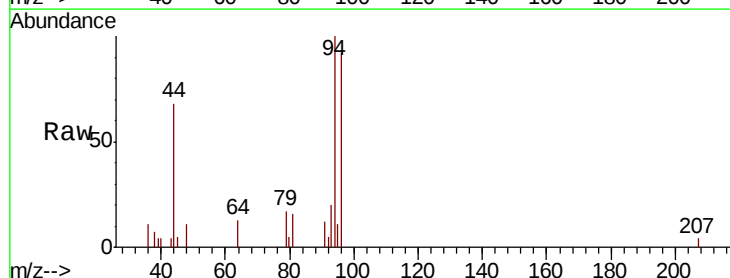
Acq: 06 Oct 2020 19:44

Tgt Ion: 94 Resp: 3206

Ion Ratio Lower Upper

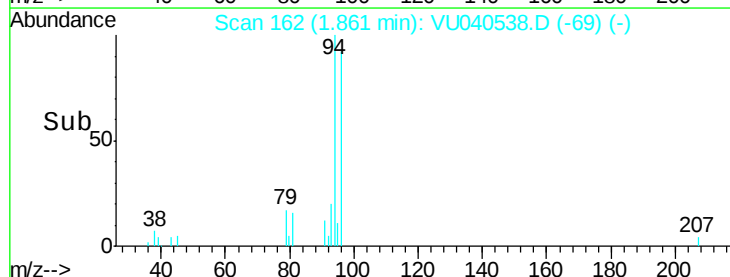
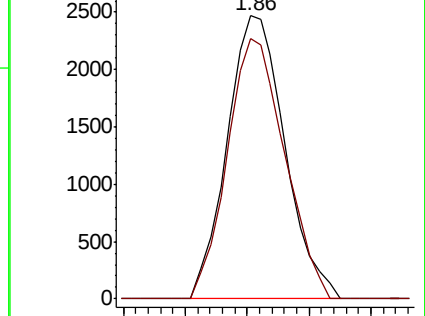
94 100

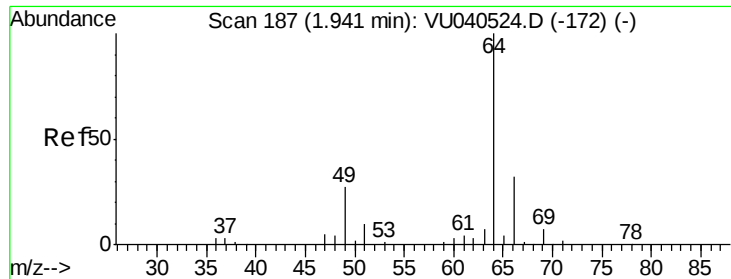
96 91.9 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU040524.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU040524.D (-152) (-)





#8

Chloroethane

Concen: 2.220 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

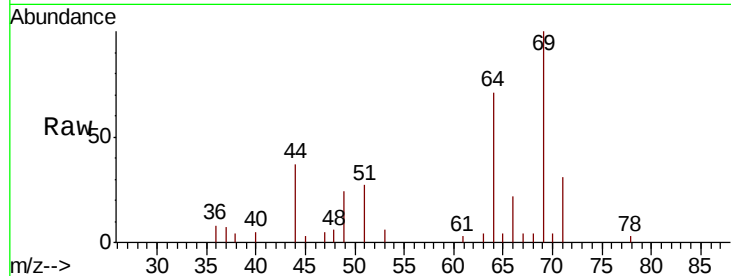
MDL-ME-SOIL-02

Tot Ion: 64 Resp: 3722

Ion Ratio Lower Upper

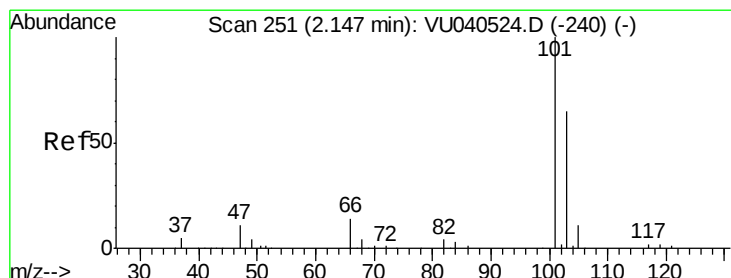
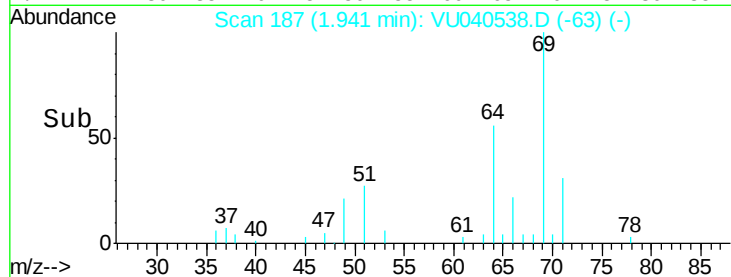
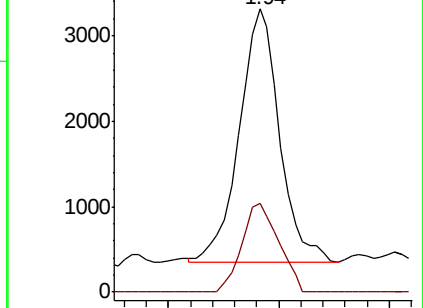
64 100

66 31.4 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VU040538.D (-63) (-)

Ion 66.00 (65.70 to 66.70): VU040538.D (-63) (-)



#9

Trichlorofluoromethane

Concen: 2.180 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU040538.D

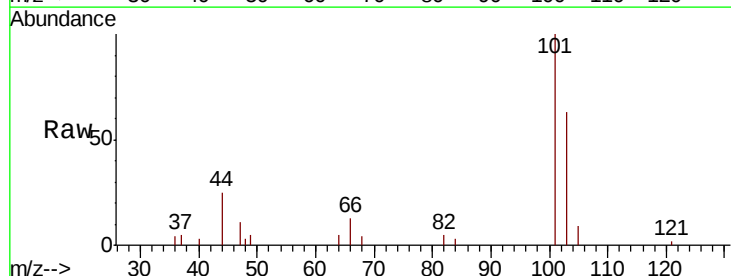
Acq: 06 Oct 2020 19:44

Tgt Ion: 101 Resp: 7771

Ion Ratio Lower Upper

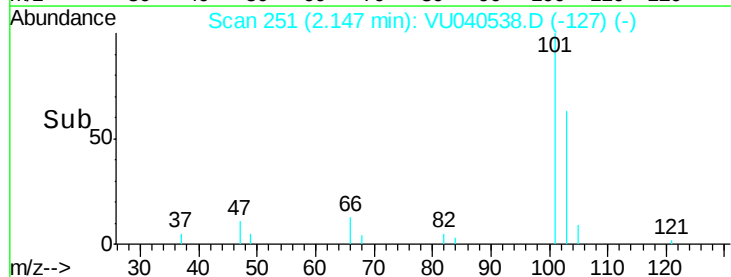
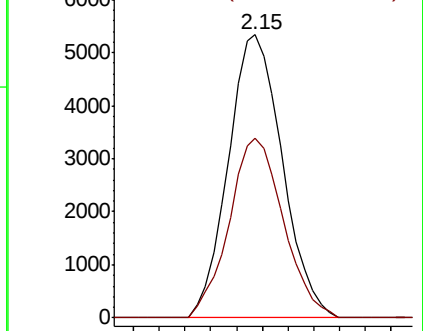
101 100

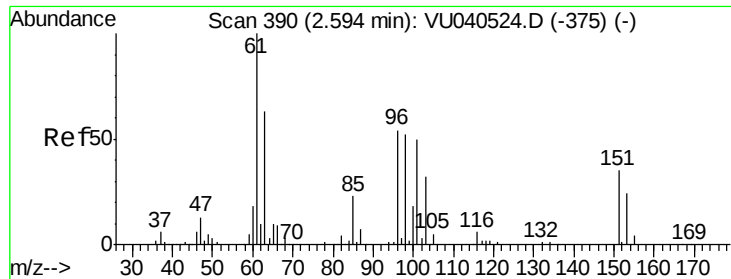
103 63.7 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VU040538.D (-127) (-)

Ion 103.00 (102.70 to 103.70): VU040538.D (-127) (-)





#10

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

Concen: 2.805 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.01 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-02

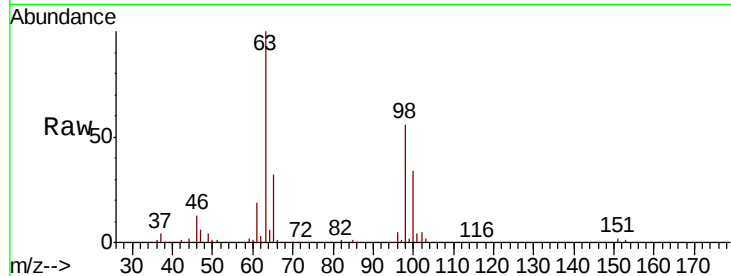
Tot Ion:101 Resp: 5960

Ion Ratio Lower Upper

101 100

85 19.2 35.4 53.2#

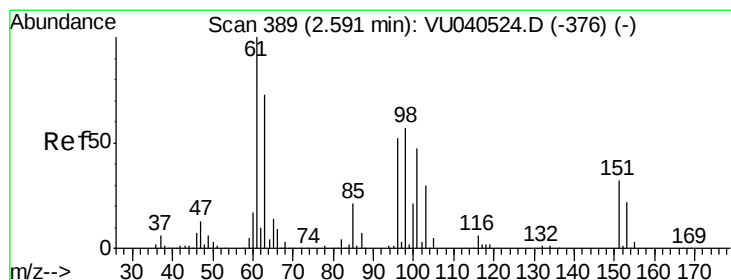
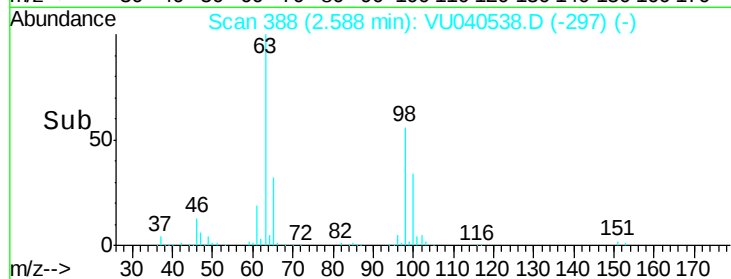
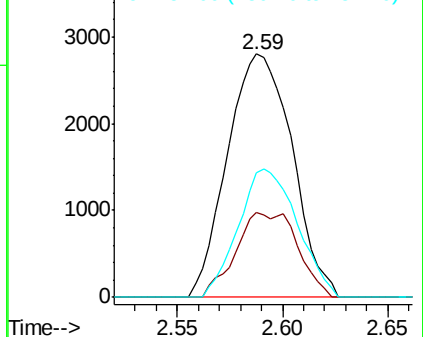
151 48.1 54.8 82.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.860 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

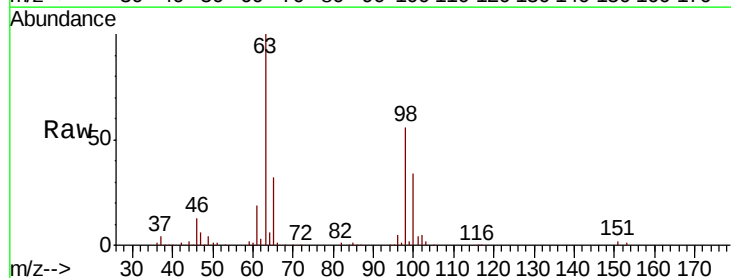
Tgt Ion: 96 Resp: 5617

Ion Ratio Lower Upper

96 100

61 394.7 135.0 250.8#

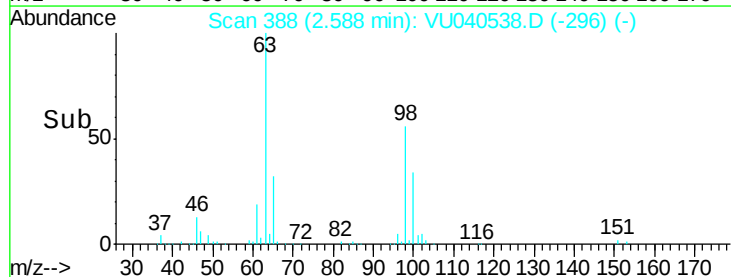
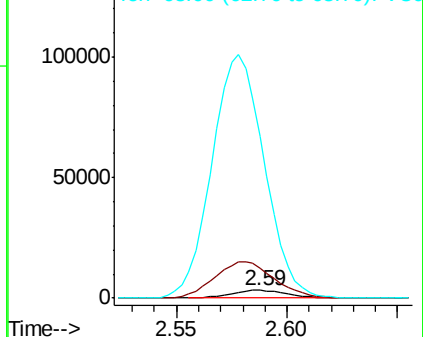
63 2126.1 101.4 188.2#

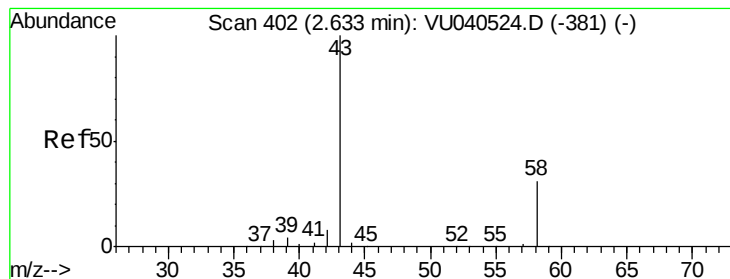


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 3.459 ug/L

RT: 2.64 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

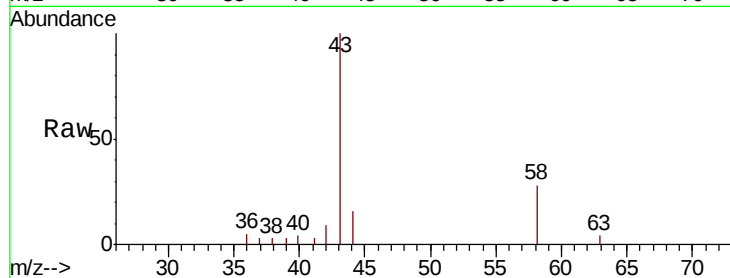
MDL-ME-SOIL-02

Tot Ion: 43 Resp: 6278

Ion Ratio Lower Upper

43 100

58 29.5 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040538.D (-309) (-)

Ion 58.00 (57.70 to 58.70): VU040538.D (-309) (-)

2.64

4000

3000

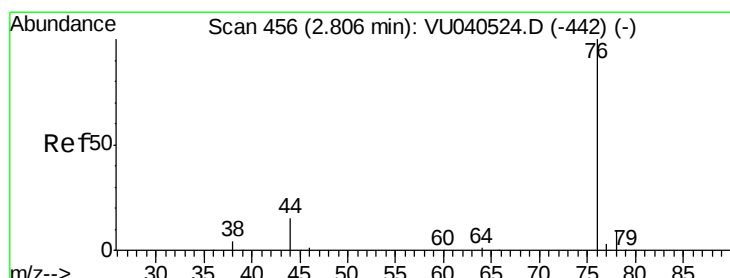
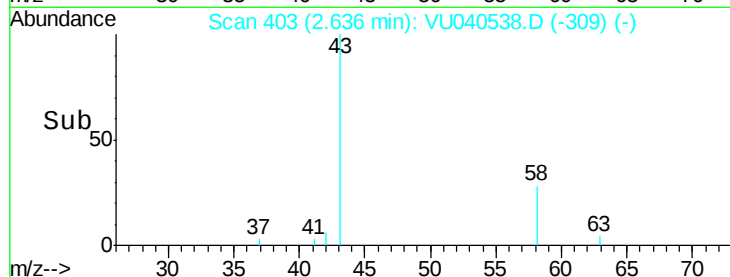
2000

1000

0

Time-->

2.60 2.65 2.70



#14

Carbon disulfide

Concen: 2.021 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040538.D

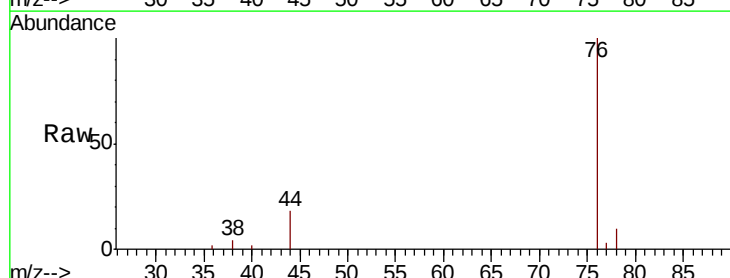
Acq: 06 Oct 2020 19:44

Tgt Ion: 76 Resp: 13625

Ion Ratio Lower Upper

76 100

78 9.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU040538.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040538.D (-363) (-)

2.81

8000

6000

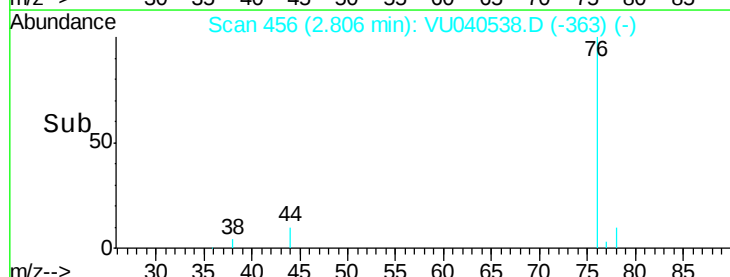
4000

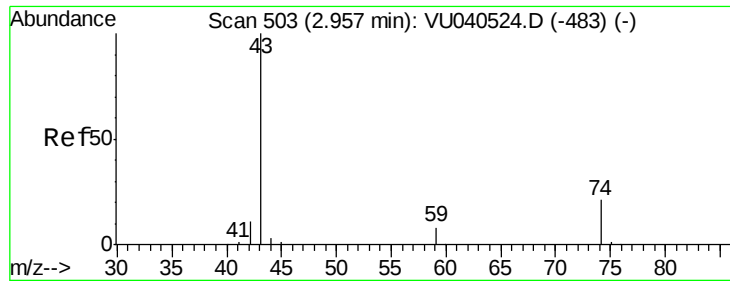
2000

0

Time-->

2.75 2.80 2.85

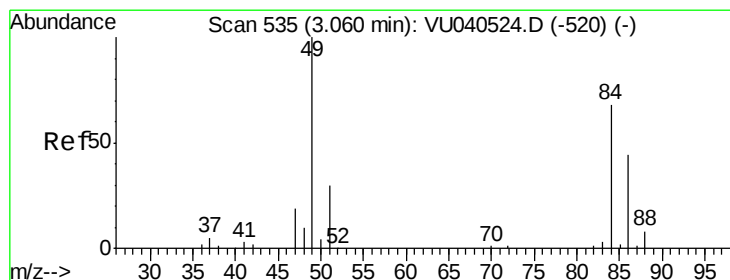
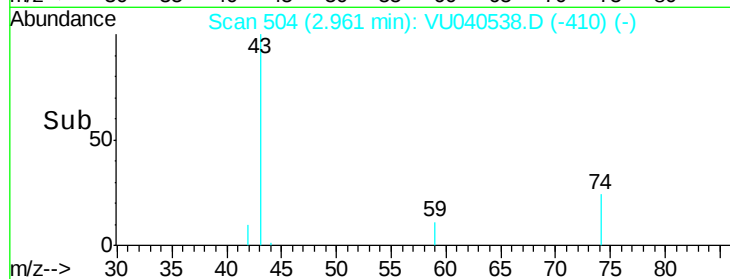
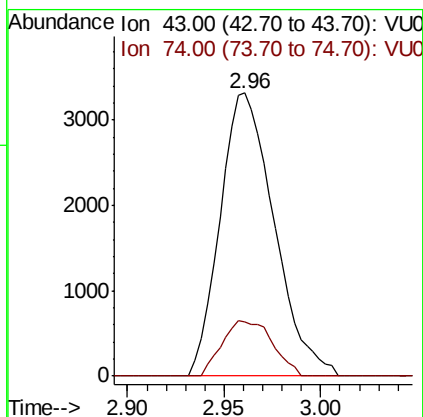
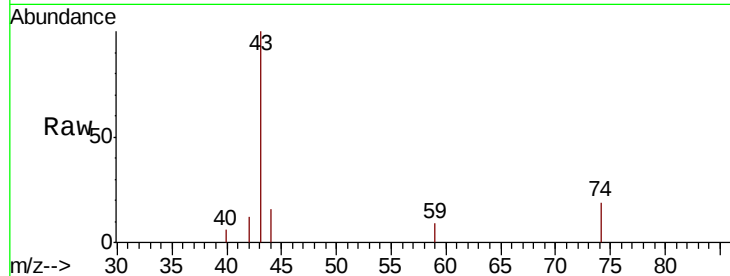




#15
Methyl Acetate
Concen: 2.173 ug/L
RT: 2.96 min Scan# 504
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

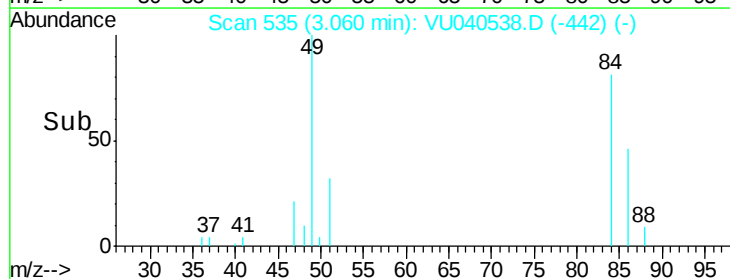
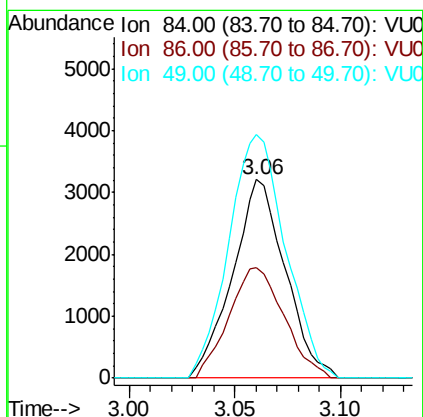
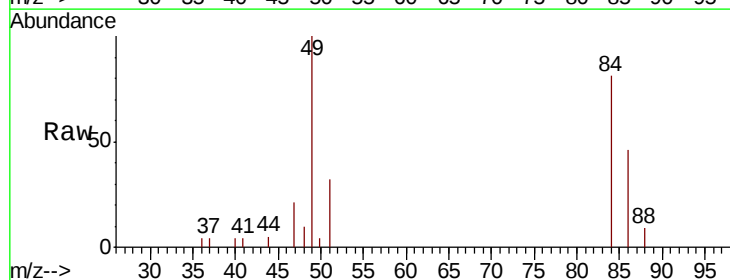
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-02

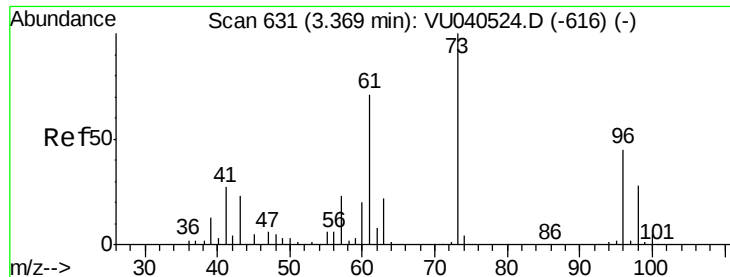
Tot Ion: 43 Resp: 6433
Ion Ratio Lower Upper
43 100
74 18.3 16.4 24.6



#16
Methylene chloride
Concen: 2.395 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

Tgt Ion: 84 Resp: 5578
Ion Ratio Lower Upper
84 100
86 55.9 45.4 84.4
49 122.8 102.9 191.1





#17

trans-1,2-Dichloroethene

Concen: 2.219 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-02

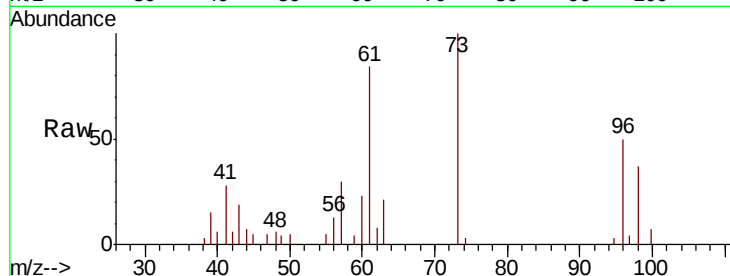
Tot Ion: 96 Resp: 4642

Ion Ratio Lower Upper

96 100

61 166.3 109.6 203.6

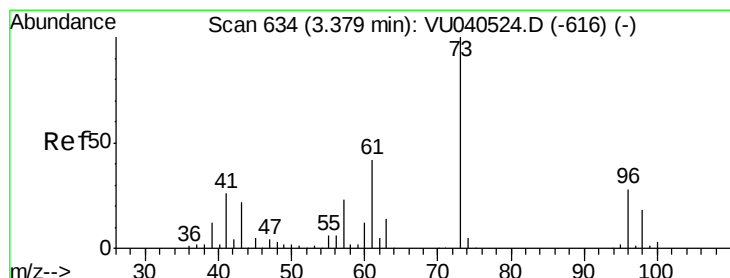
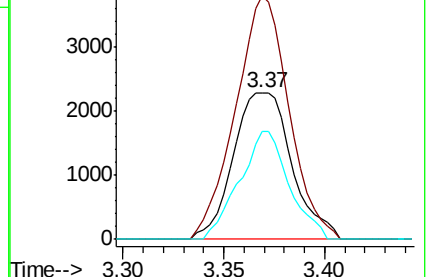
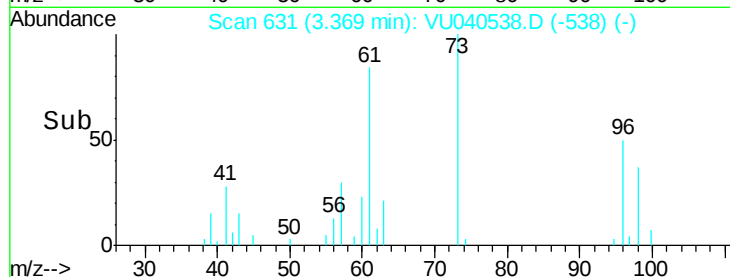
98 73.7 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VU040538.D (-538) (-)

Ion 61.00 (60.70 to 61.70): VU040538.D (-538) (-)

Ion 98.00 (97.70 to 98.70): VU040538.D (-538) (-)



#18

Methyl tert-butyl Ether

Concen: 2.038 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

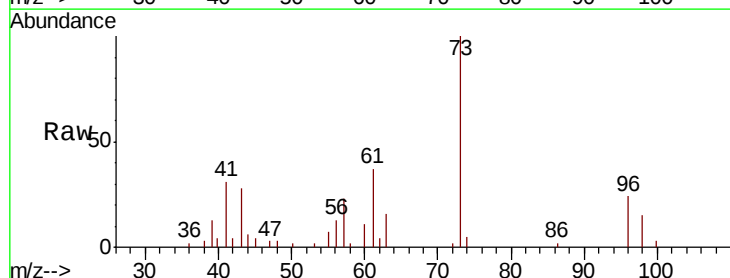
Tgt Ion: 73 Resp: 13410

Ion Ratio Lower Upper

73 100

43 24.9 18.2 27.2

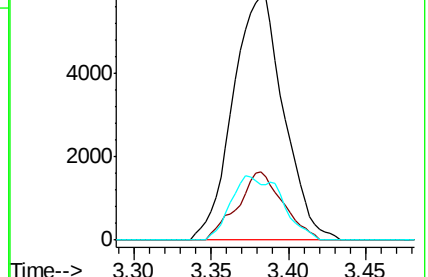
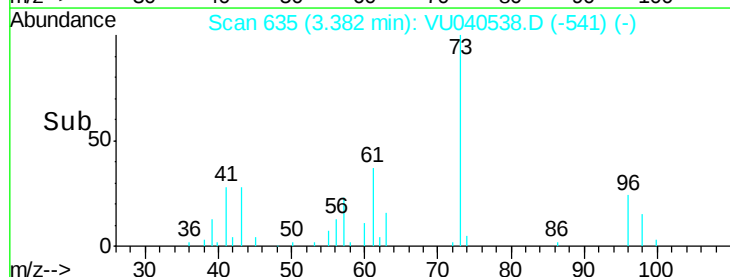
57 15.2 18.5 27.7#

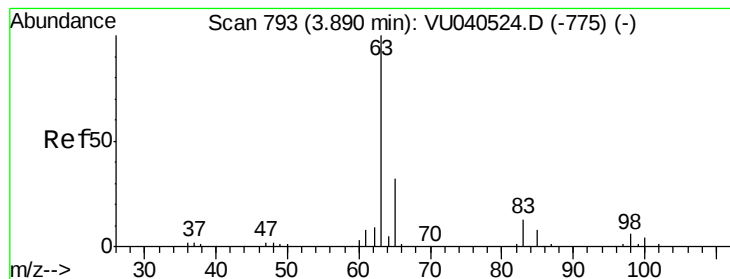


Abundance Ion 73.00 (72.70 to 73.70): VU040538.D (-541) (-)

Ion 43.00 (42.70 to 43.70): VU040538.D (-541) (-)

Ion 57.00 (56.70 to 57.70): VU040538.D (-541) (-)





#19

1,1-Dichloroethane

Concen: 2.166 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-02

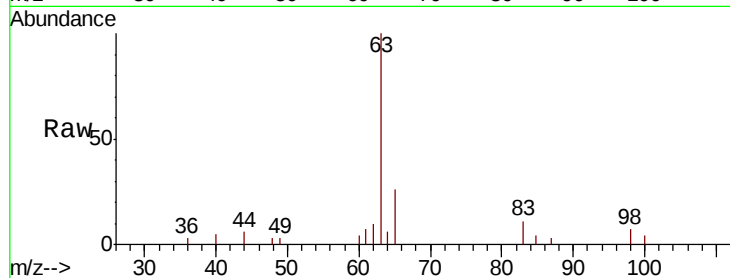
Tot Ion: 63 Resp: 9036

Ion Ratio Lower Upper

63 100

65 25.9 22.6 42.0

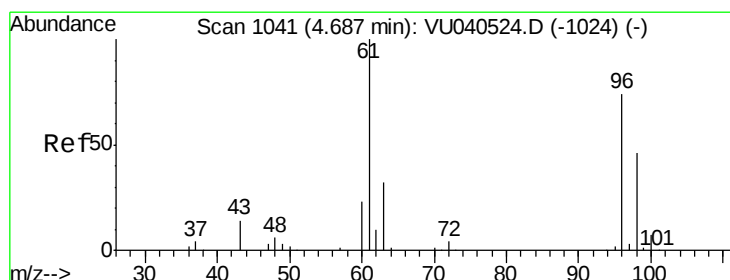
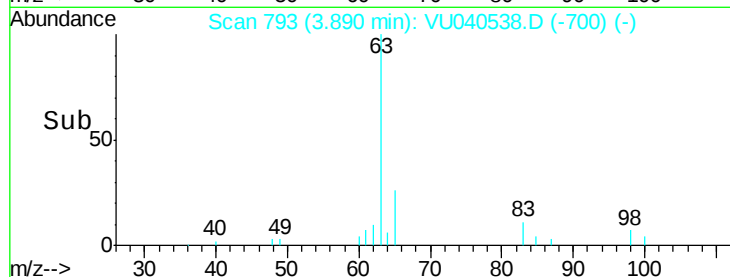
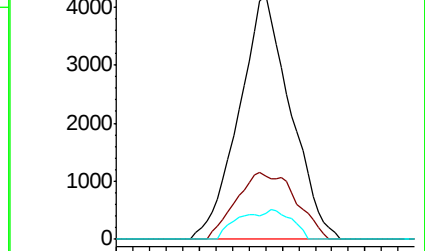
83 10.5 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU040538.D (-700) (-)

Ion 65.00 (64.70 to 65.70): VU040538.D (-700) (-)

Ion 83.00 (82.70 to 83.70): VU040538.D (-700) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.192 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

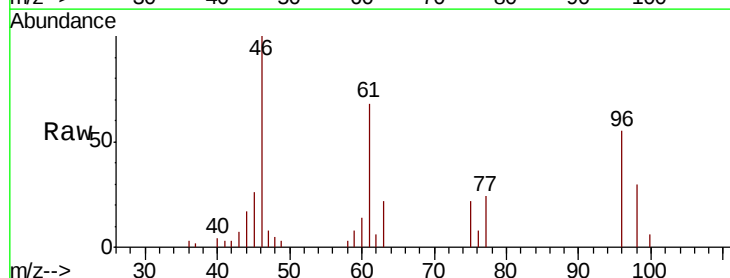
Tgt Ion: 96 Resp: 4943

Ion Ratio Lower Upper

96 100

61 122.7 95.7 177.7

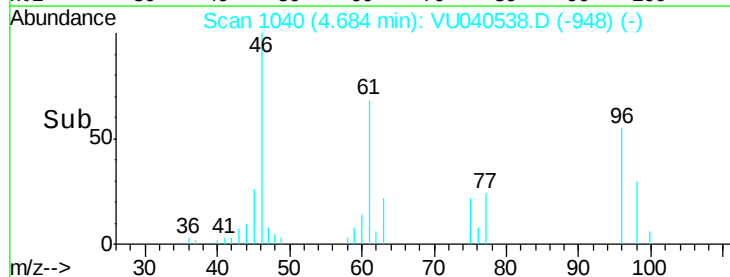
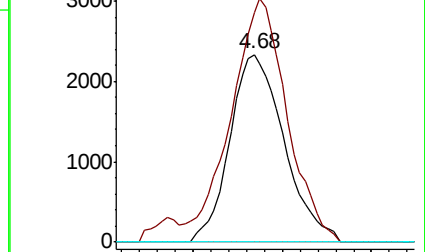
68 0.0 0.0 0.0

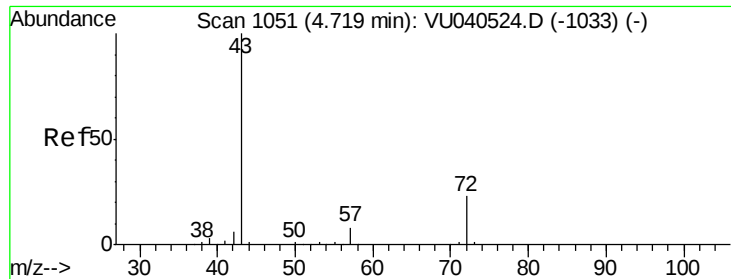


Abundance Ion 96.00 (95.70 to 96.70): VU040538.D (-948) (-)

Ion 61.00 (60.70 to 61.70): VU040538.D (-948) (-)

Ion 68.00 (67.70 to 68.70): VU040538.D (-948) (-)

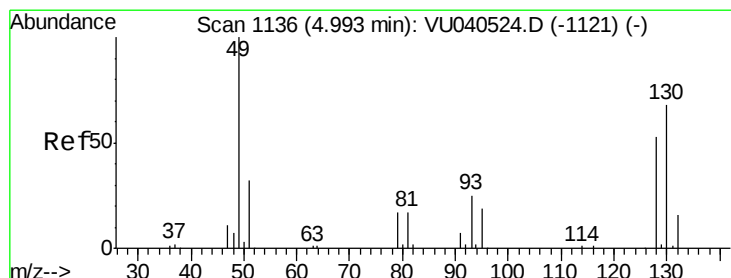
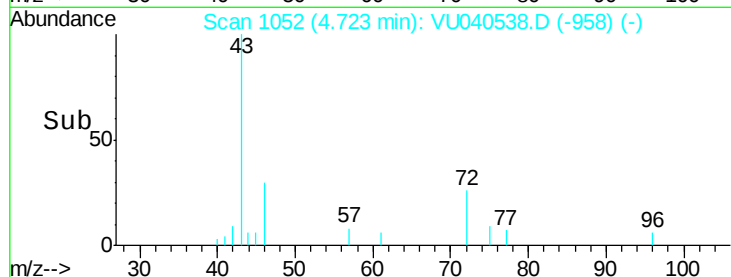
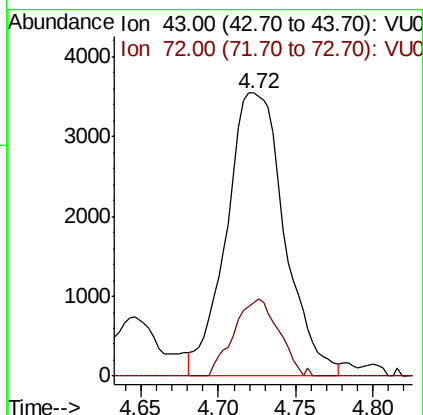
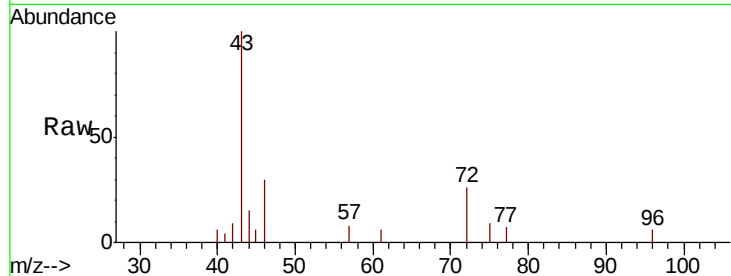




#22
2-Butanone
Concen: 3.990 ug/L
RT: 4.72 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

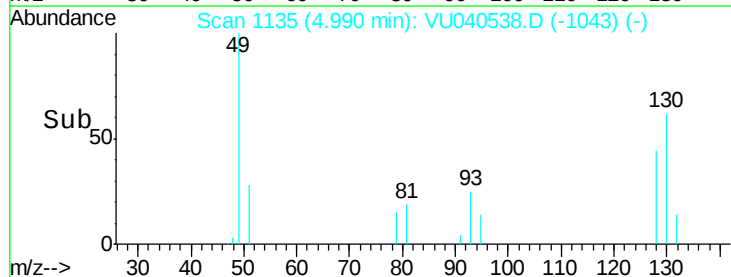
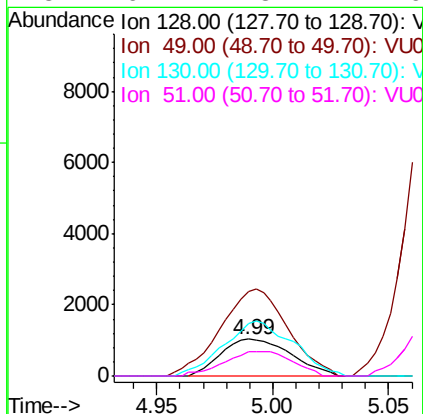
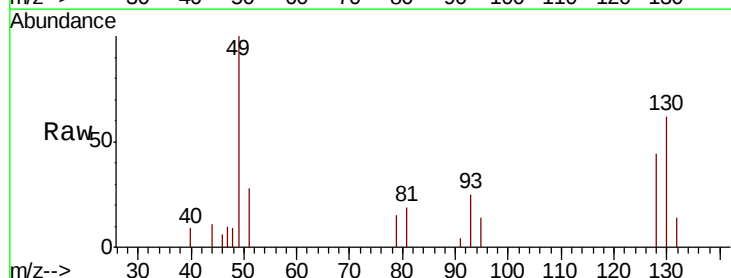
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-02

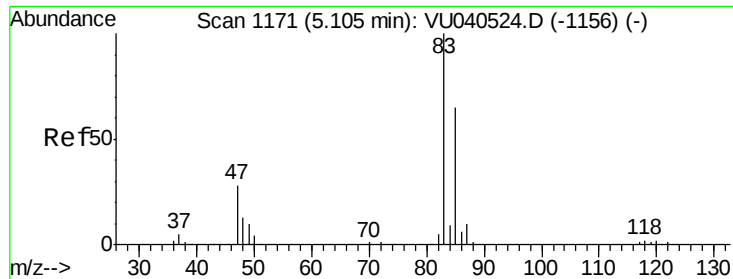
Tot Ion: 43 Resp: 9240
Ion Ratio Lower Upper
43 100
72 20.9 11.9 35.9



#23
Bromochloromethane
Concen: 1.862 ug/L
RT: 4.99 min Scan# 1135
Delta R.T. -0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

Tgt Ion: 128 Resp: 2188
Ion Ratio Lower Upper
128 100
49 227.6 133.1 247.3
130 141.3 90.5 168.1
51 64.7 48.4 72.6

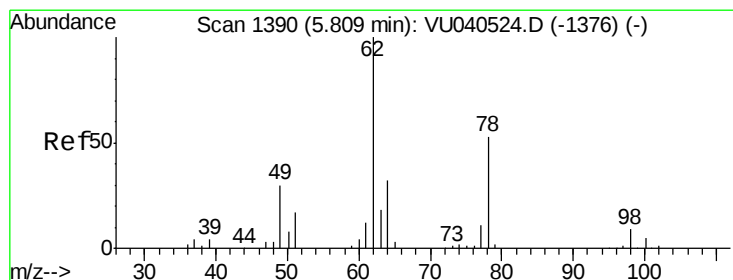
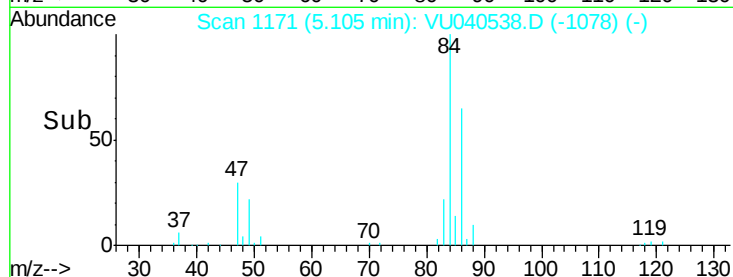
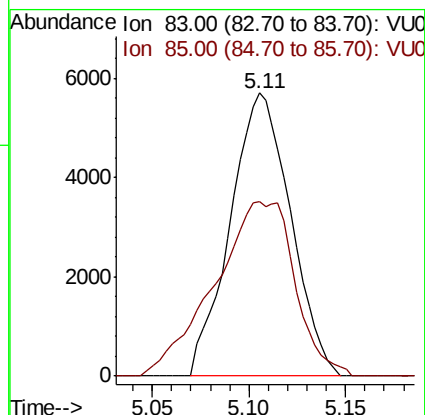
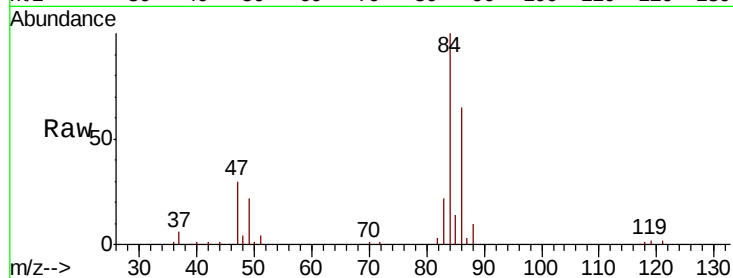




#25
Chloroform
Concen: 2.903 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

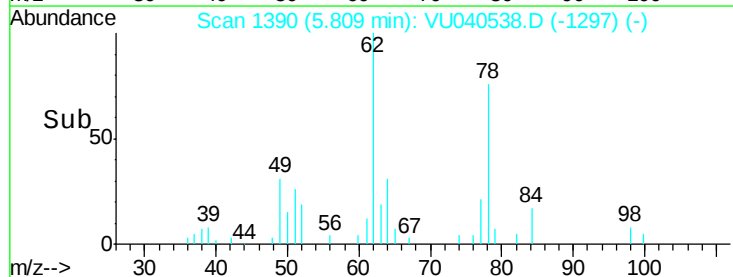
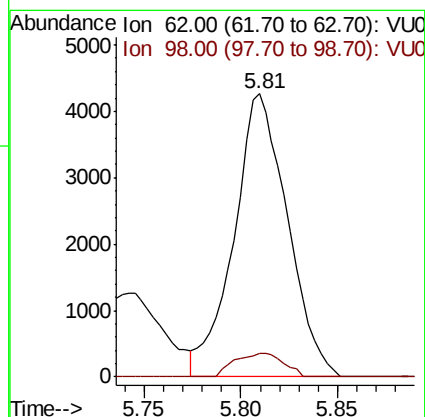
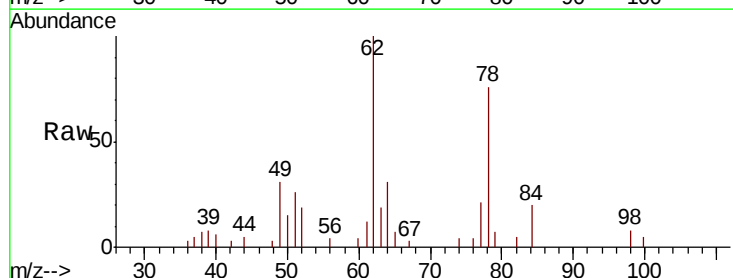
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-02

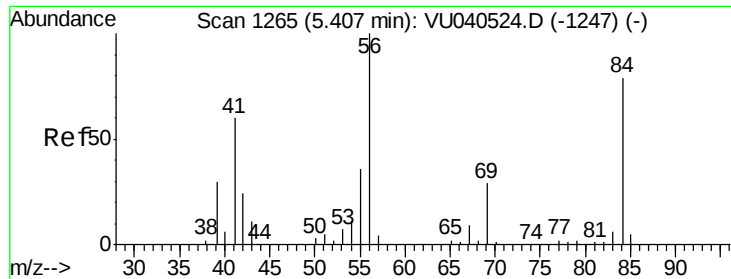
Tot Ion: 83 Resp: 12351
Ion Ratio Lower Upper
83 100
85 61.7 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.338 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

Tgt Ion: 62 Resp: 8208
Ion Ratio Lower Upper
62 100
98 8.1 7.1 10.7

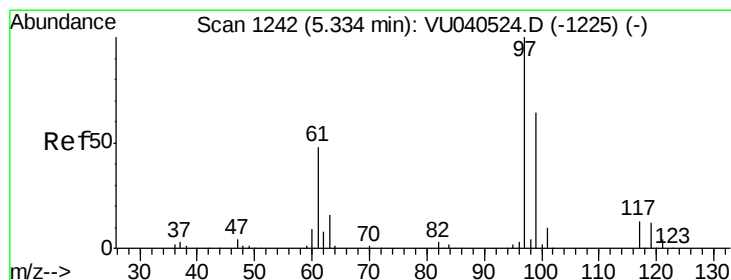
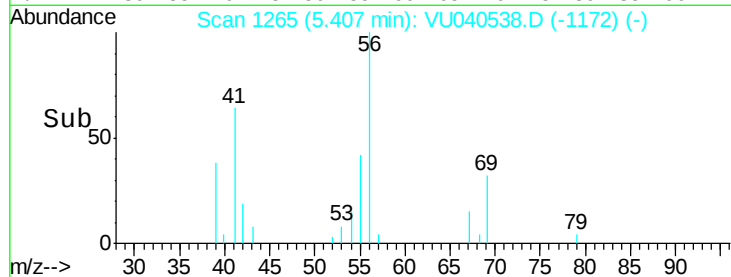
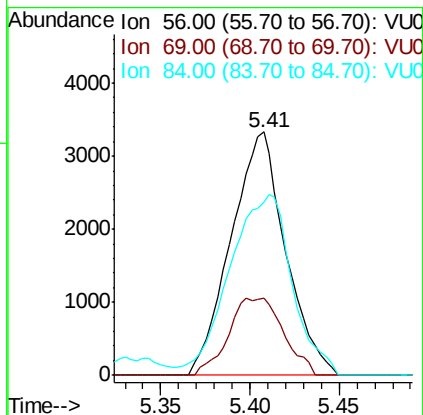
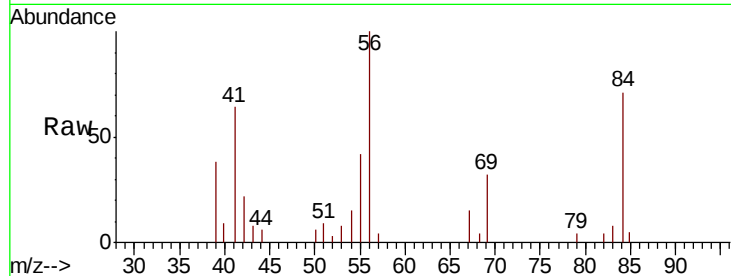




#29
Cyclohexane
Concen: 1.923 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

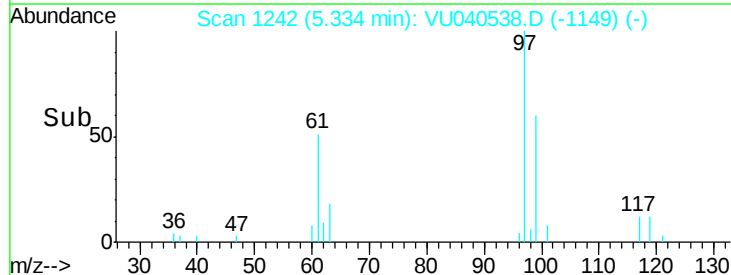
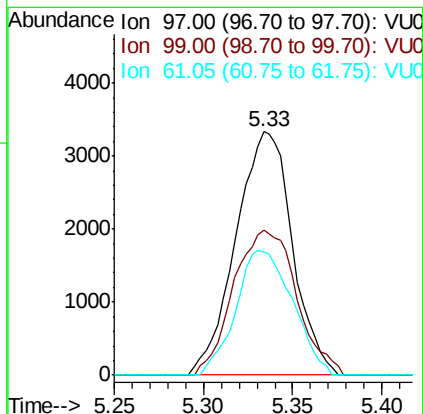
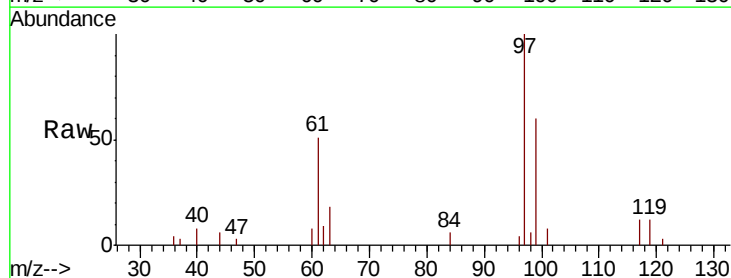
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-02

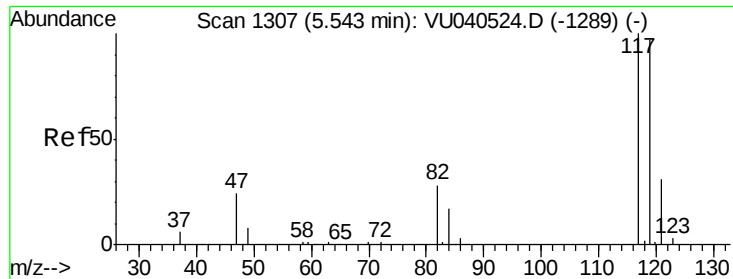
Tot Ion: 56 Resp: 7122
Ion Ratio Lower Upper
56 100
69 15.0 22.6 34.0#
84 85.3 63.1 94.7



#30
1,1,1-Trichloroethane
Concen: 2.074 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

Tgt Ion: 97 Resp: 7369
Ion Ratio Lower Upper
97 100
99 66.4 51.0 76.6
61 51.4 39.4 59.2





#31

Carbon tetrachloride

Concen: 2.049 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

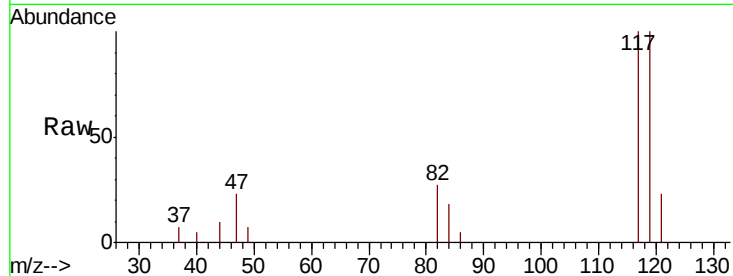
MDL-ME-SOIL-02

Tot Ion:117 Resp: 6296

Ion Ratio Lower Upper

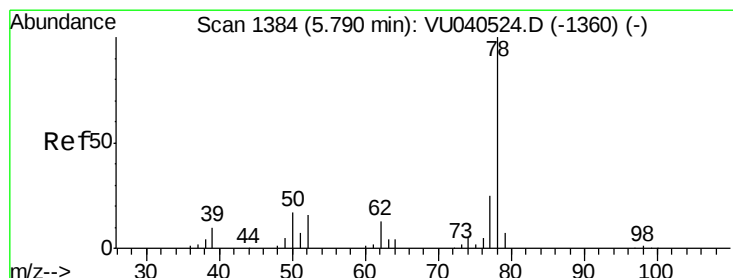
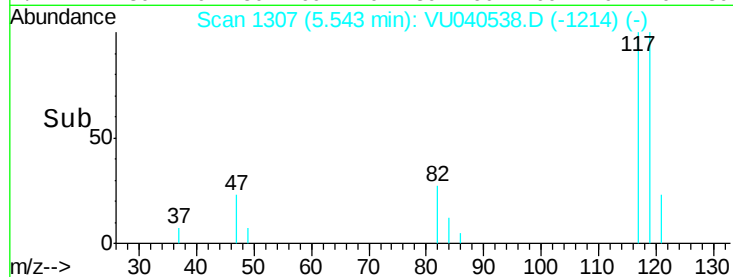
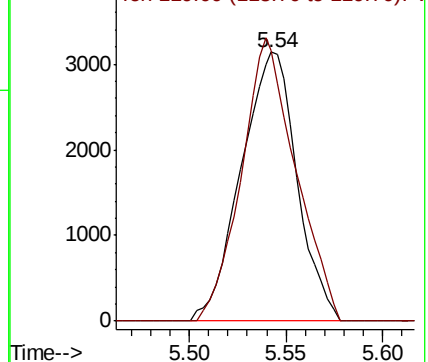
117 100

119 102.4 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: 2.203 ug/L

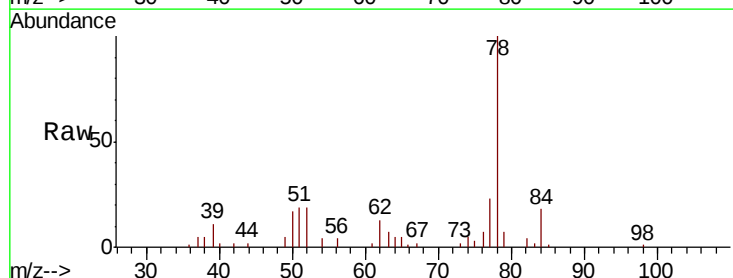
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

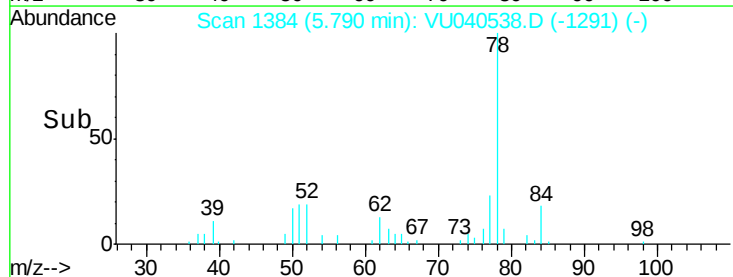
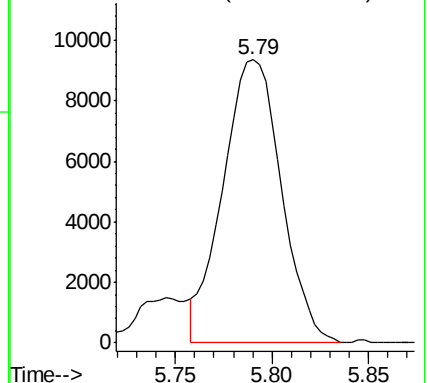
Lab File: VU040538.D

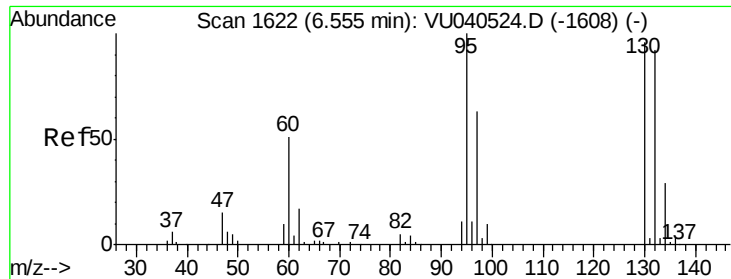
Acq: 06 Oct 2020 19:44

Tgt Ion: 78 Resp: 19704



Abundance Ion 78.00 (77.70 to 78.70): VU0

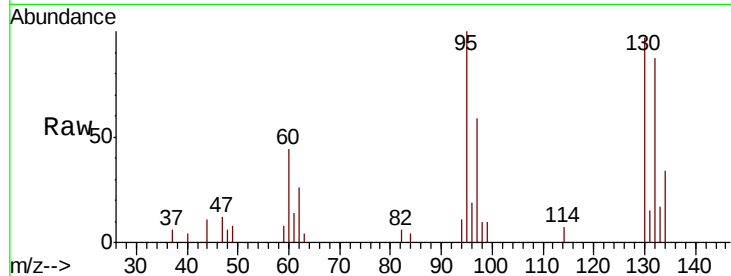




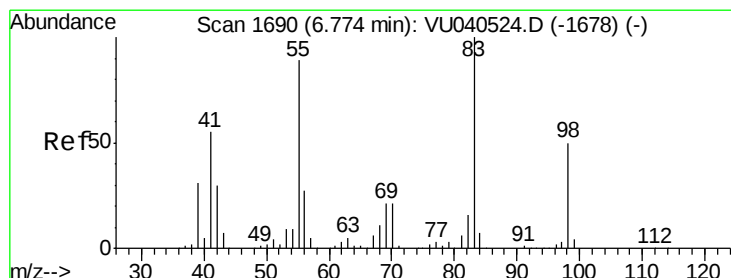
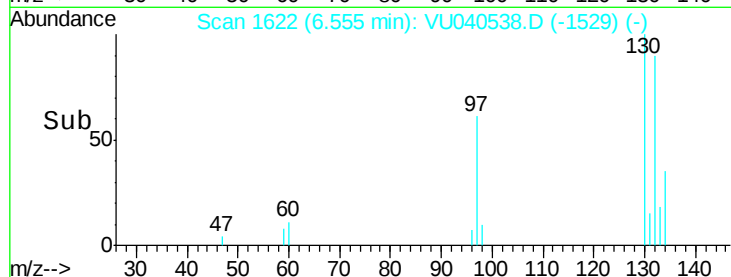
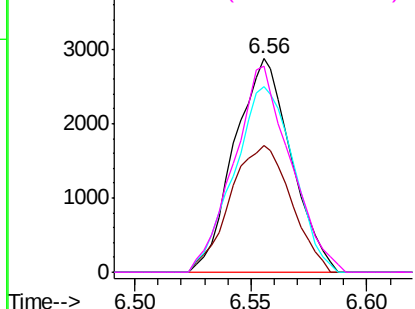
#34
 Trichloroethene
 Concen: 2.117 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-02

Tot Ion: 95 Resp: 4876
 Ion Ratio Lower Upper
 95 100
 97 59.1 44.3 82.3
 132 87.1 64.2 119.2
 130 96.6 67.3 125.1

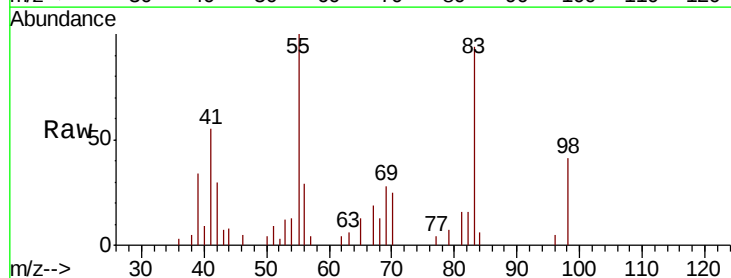


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

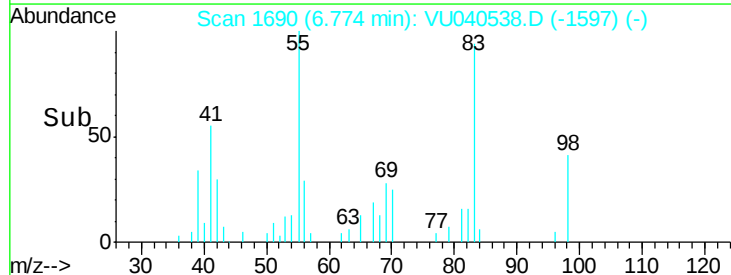
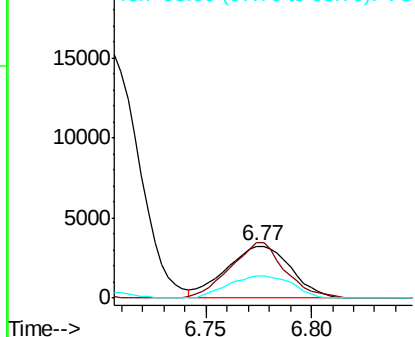


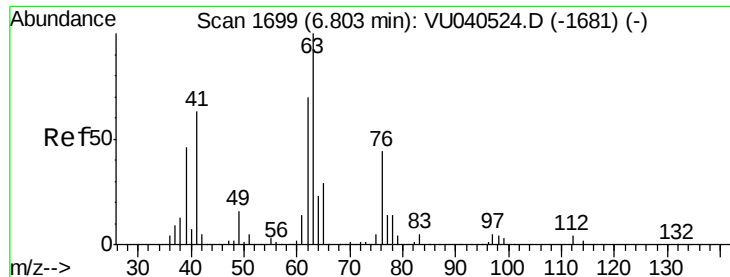
#35
 Methylcyclohexane
 Concen: 1.970 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Tgt Ion: 83 Resp: 6901
 Ion Ratio Lower Upper
 83 100
 55 90.5 69.8 104.8
 98 42.0 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

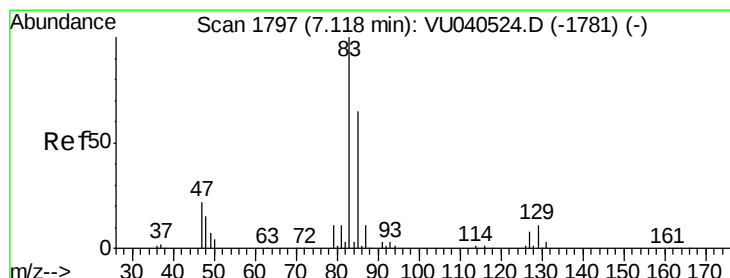
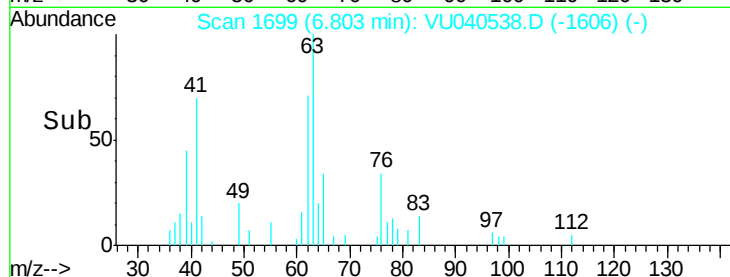
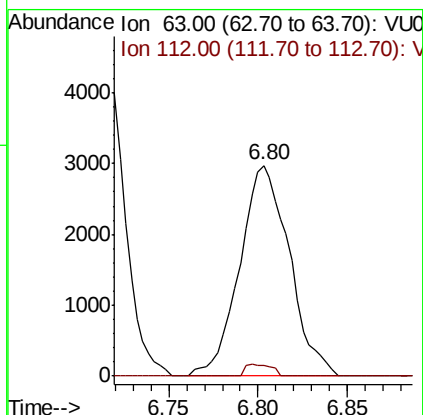
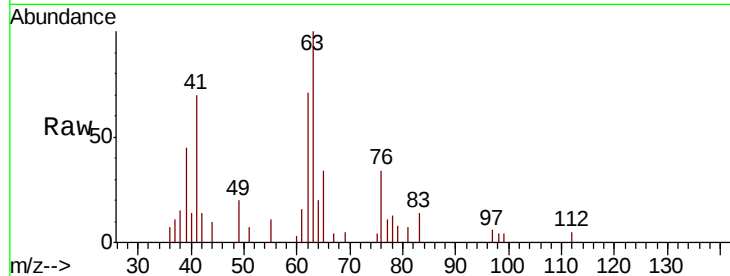




#37
 1,2-Dichloropropane
 Concen: 2.354 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

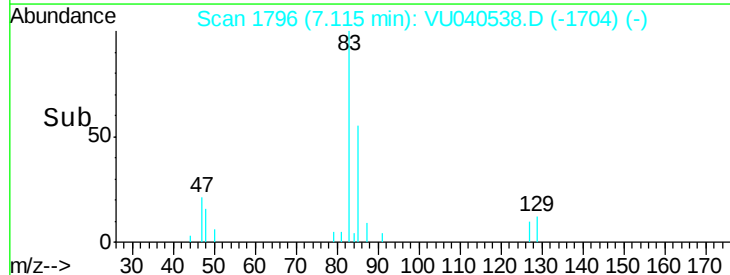
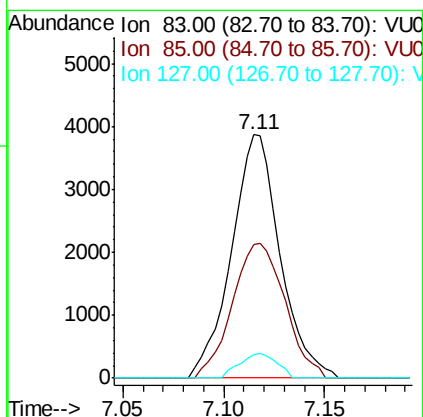
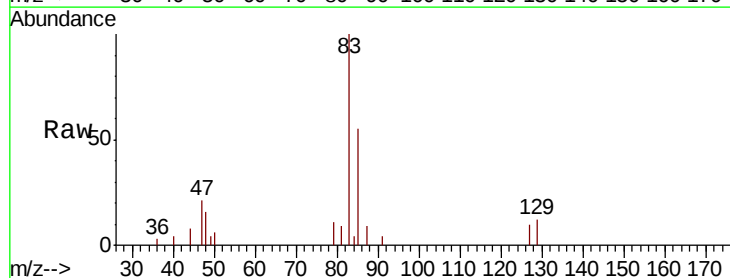
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-02

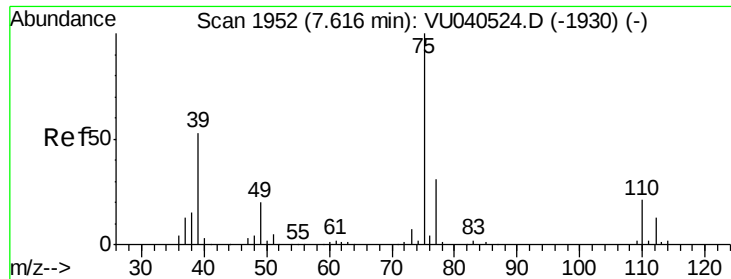
Tot Ion: 63 Resp: 5780
 Ion Ratio Lower Upper
 63 100
 112 2.9 3.5 5.3#



#38
 Bromodichloromethane
 Concen: 2.043 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Tgt Ion: 83 Resp: 6518
 Ion Ratio Lower Upper
 83 100
 85 54.7 45.2 84.0
 127 9.6 6.7 10.1

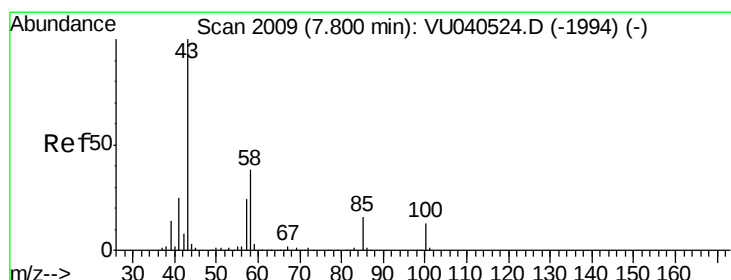
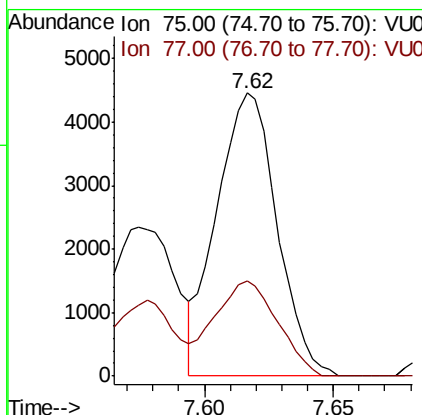
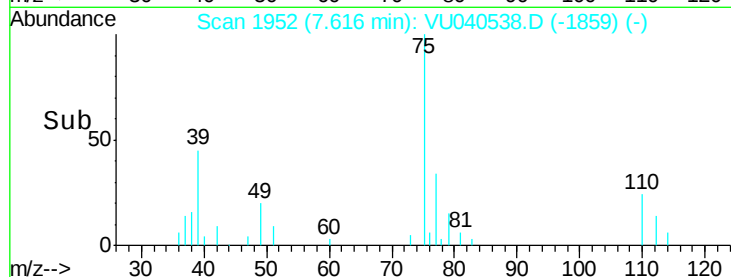
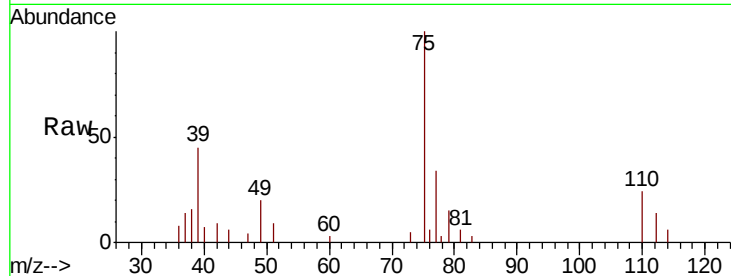




#39
 cis-1,3-Dichloropropene
 Concen: 2.017 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

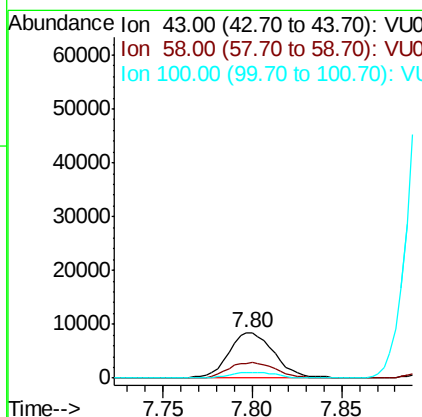
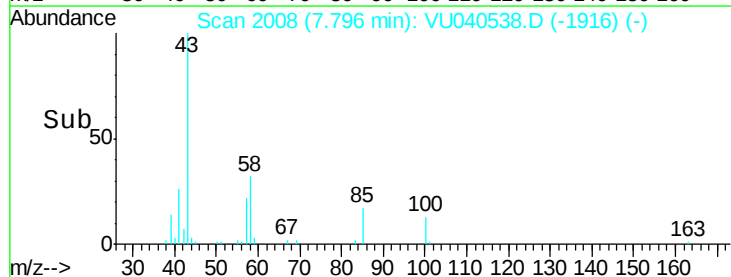
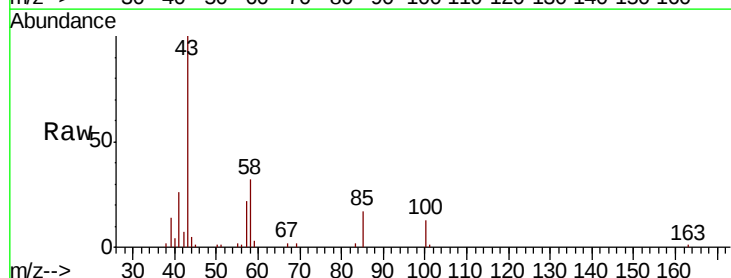
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-02

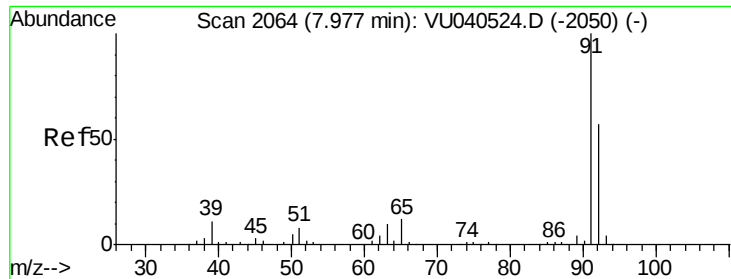
Tot Ion: 75 Resp: 7259
 Ion Ratio Lower Upper
 75 100
 77 33.6 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 3.900 ug/L
 RT: 7.80 min Scan# 2008
 Delta R.T. -0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Tgt Ion: 43 Resp: 15112
 Ion Ratio Lower Upper
 43 100
 58 34.4 29.7 44.5
 100 12.4 10.5 15.7





#42

Toluene

Concen: 2.218 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

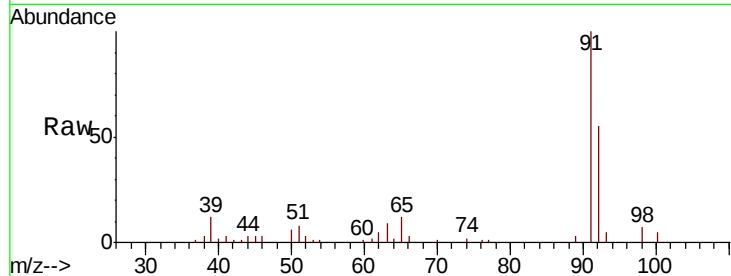
MDL-ME-SOIL-02

Tot Ion: 91 Resp: 20246

Ion Ratio Lower Upper

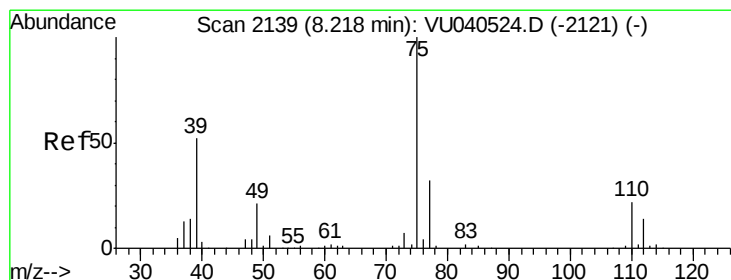
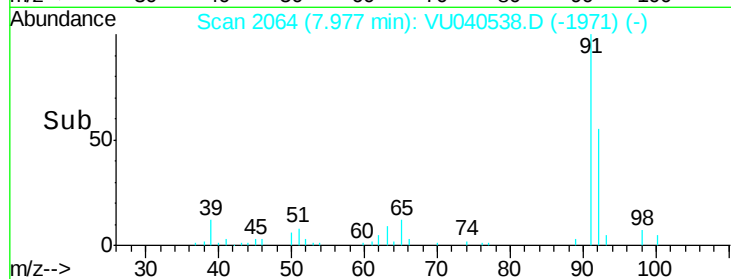
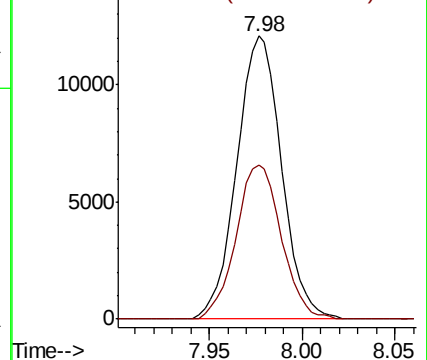
91 100

92 54.6 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 1.969 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040538.D

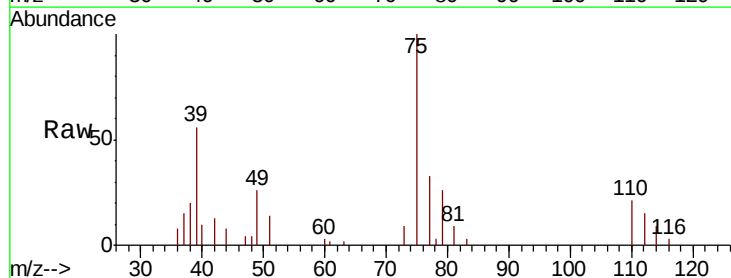
Acq: 06 Oct 2020 19:44

Tgt Ion: 75 Resp: 7135

Ion Ratio Lower Upper

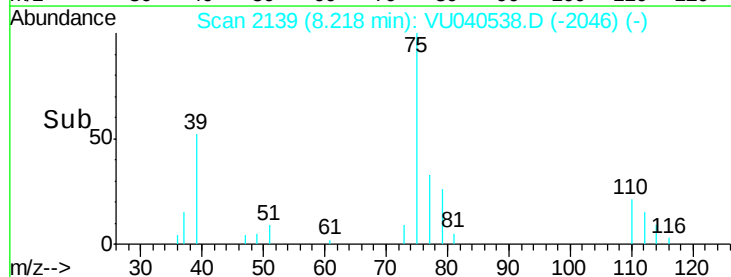
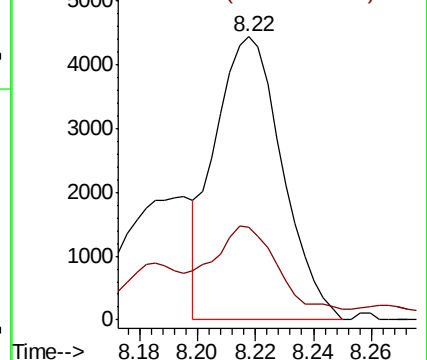
75 100

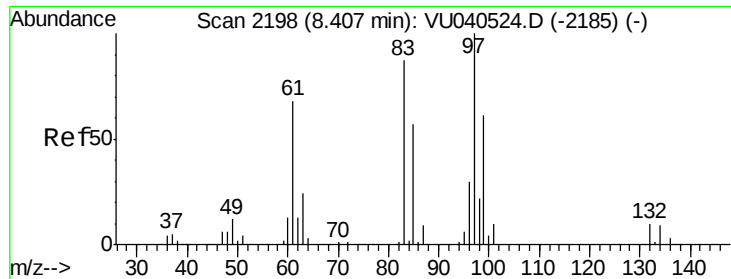
77 32.5 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

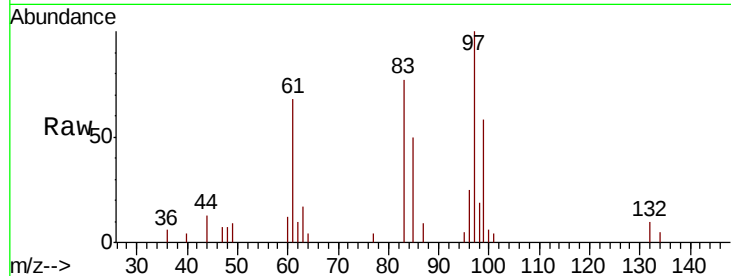




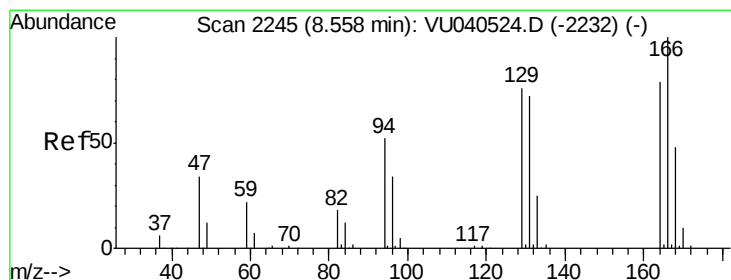
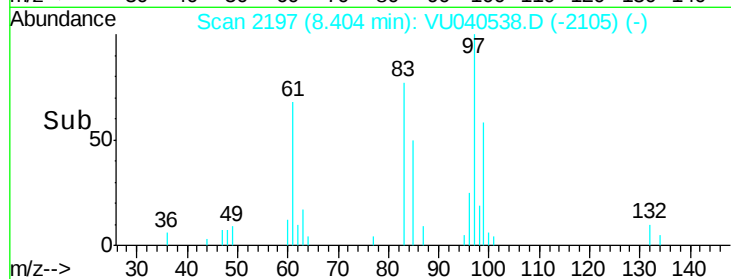
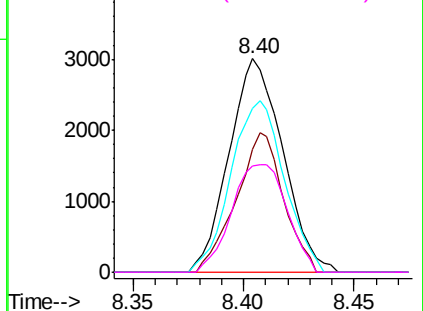
#45
1,1,2-Trichloroethane
Concen: 2.309 ug/L
RT: 8.40 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-02

Tot Ion:	97	Resp:	5079
Ion	Ratio	Lower	Upper
97	100		
99	57.8	42.7	79.3
83	76.7	61.0	113.4
85	49.8	39.8	73.8

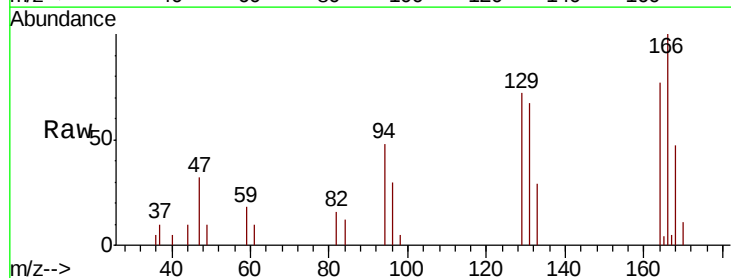


Abundance Ion 97.00 (96.70 to 97.70): VU040538.D (-2198) (-)

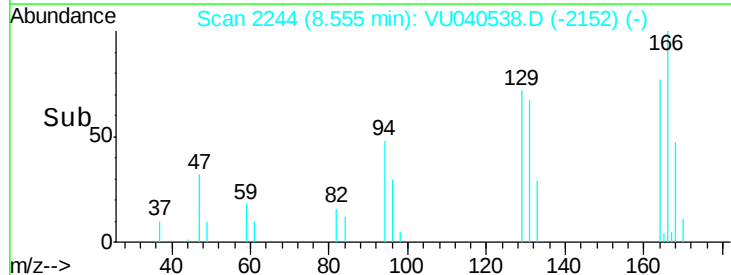
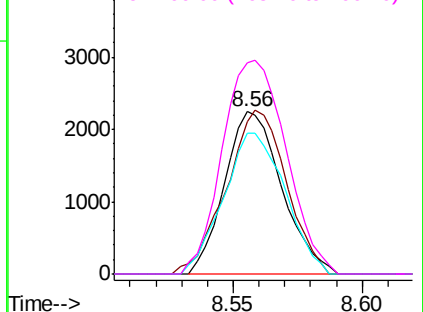


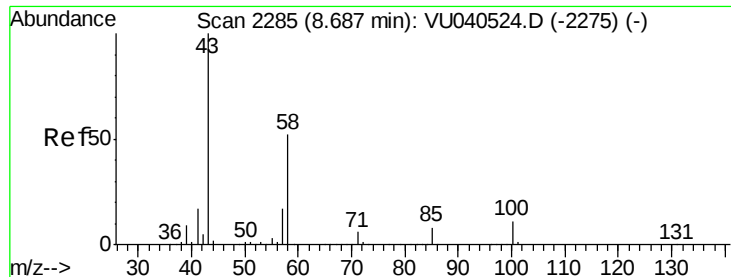
#46
Tetrachloroethene
Concen: 2.079 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

Tgt Ion:	164	Resp:	3461
Ion	Ratio	Lower	Upper
164	100		
129	94.4	67.4	125.2
131	86.8	63.8	118.6
166	130.6	88.7	164.7



Abundance Ion 164.00 (163.70 to 164.70): VU040538.D (-2245) (-)

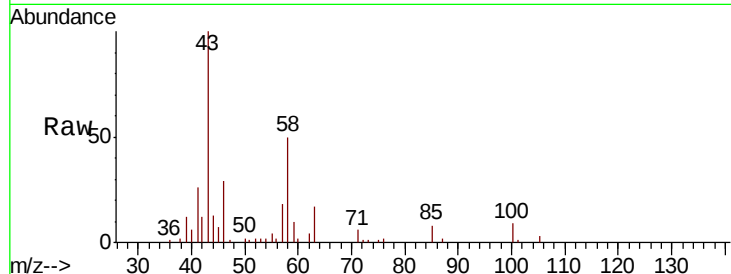




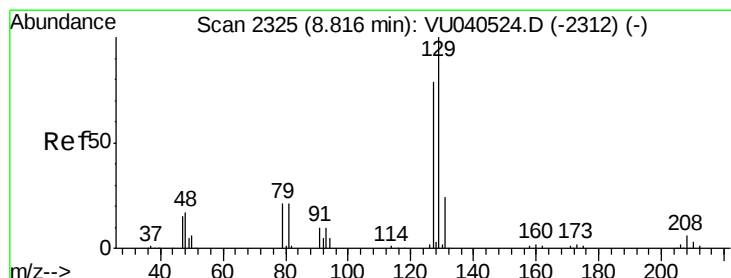
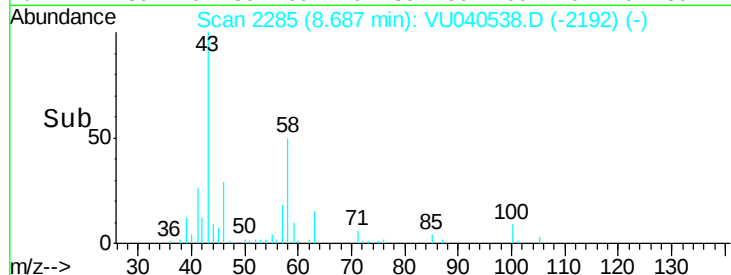
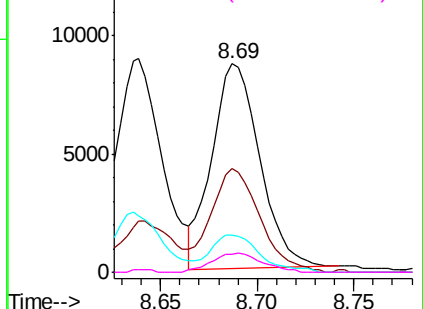
#48
2-Hexanone
Concen: 4.761 ug/L
RT: 8.69 min Scan# 2285
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-02

Tot Ion: 43 Resp: 14993
Ion Ratio Lower Upper
43 100
58 51.6 40.6 60.8
57 18.7 14.3 21.5
100 9.8 8.5 12.7

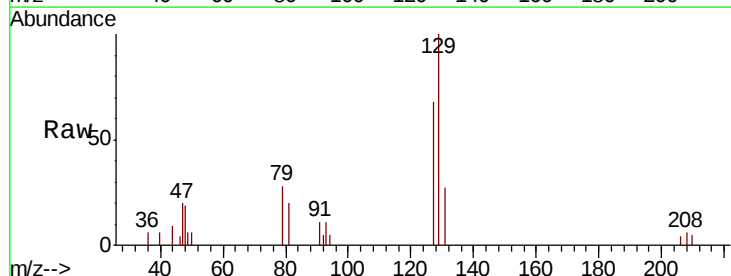


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

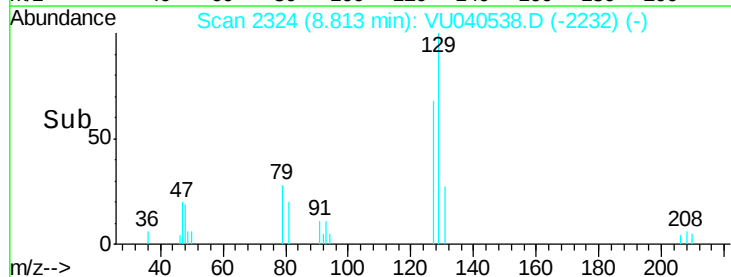
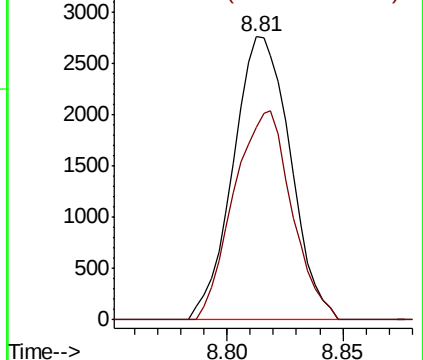


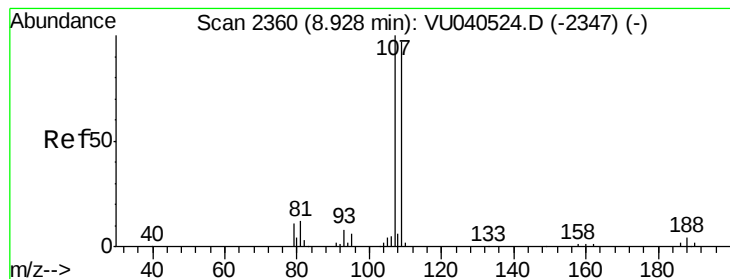
#49
Dibromochloromethane
Concen: 1.970 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

Tgt Ion: 129 Resp: 4732
Ion Ratio Lower Upper
129 100
127 68.0 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: 2.224 ug/L

RT: 8.93 min Scan# 2361

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-02

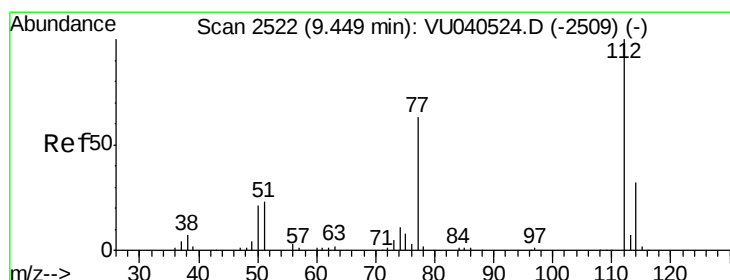
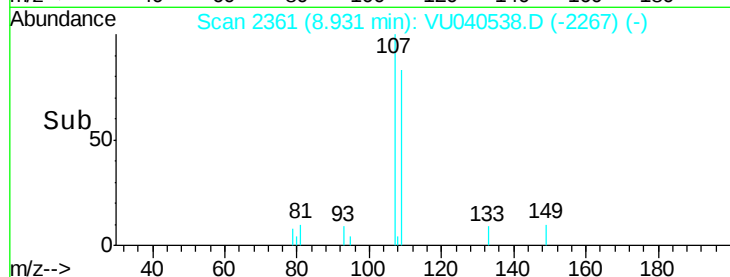
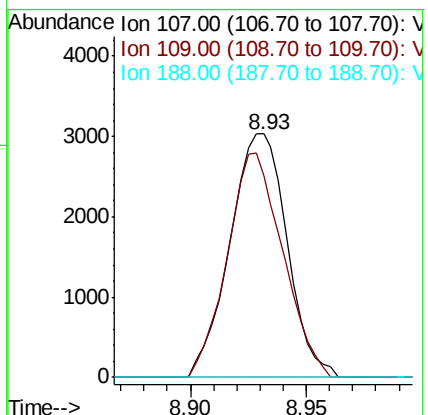
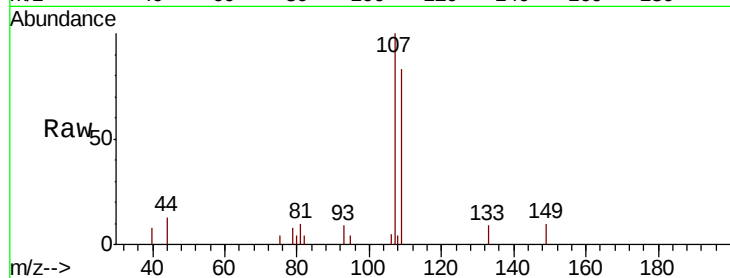
Tot Ion:107 Resp: 5186

Ion Ratio Lower Upper

107 100

109 82.9 67.8 125.8

188 0.0 2.8 4.2#



#51

Chlorobenzene

Concen: 2.146 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

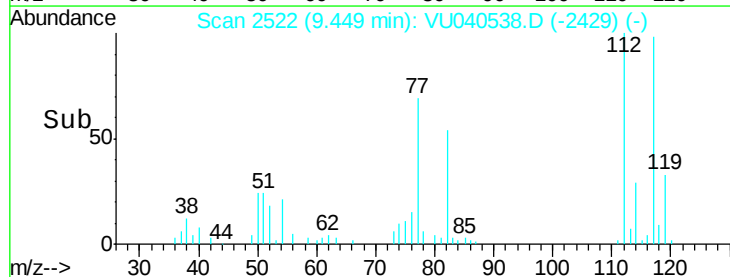
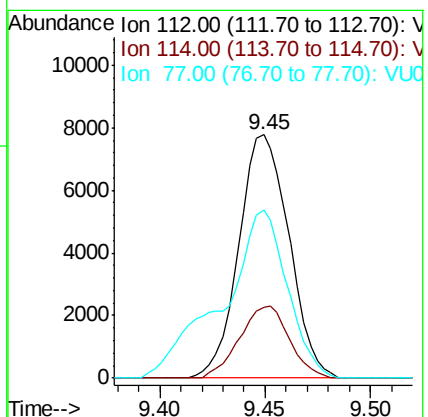
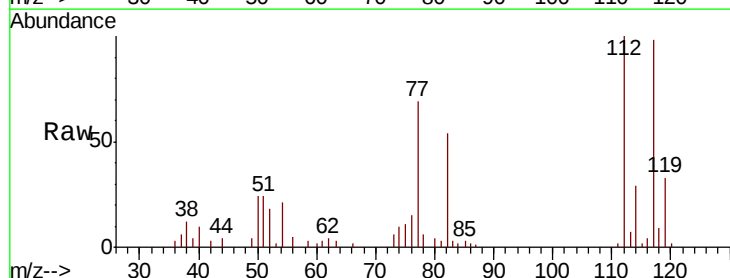
Tgt Ion:112 Resp: 12851

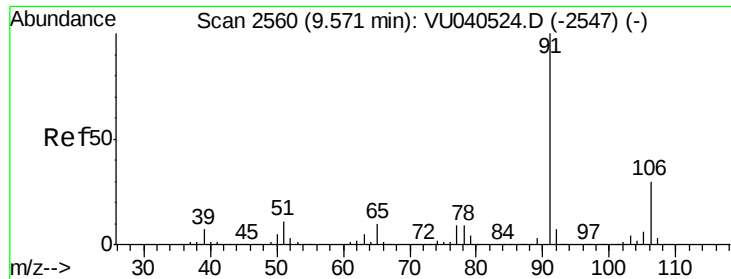
Ion Ratio Lower Upper

112 100

114 29.2 22.1 41.1

77 69.2 50.4 75.6





#52

Ethylbenzene

Concen: 1.960 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

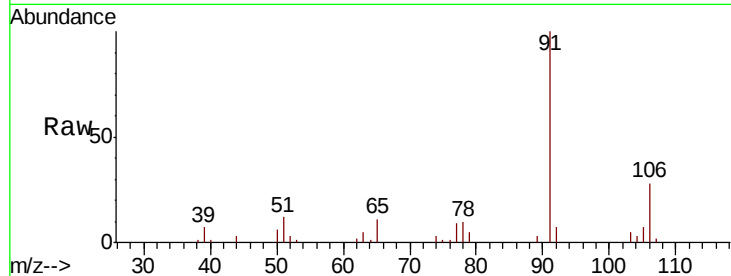
MDL-ME-SOIL-02

Tot Ion: 91 Resp: 19866

Ion Ratio Lower Upper

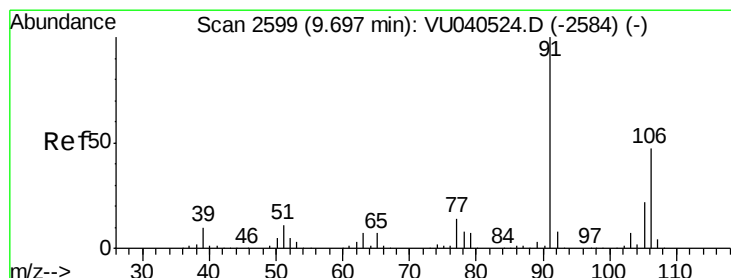
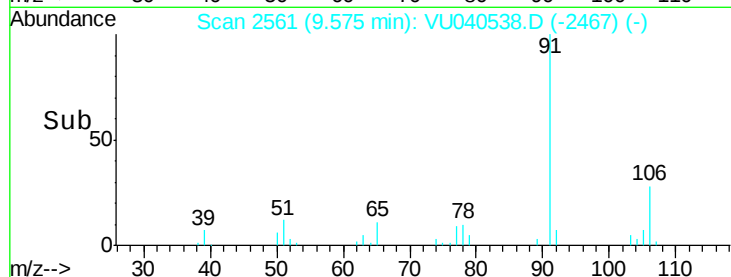
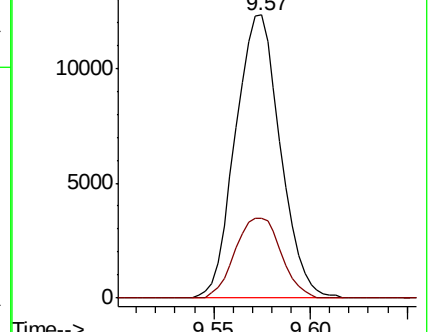
91 100

106 28.3 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU040524.D (-2547) (-)

Ion 106.00 (105.70 to 106.70): VU040524.D (-2547) (-)



#53

m,p-Xylene

Concen: 1.794 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040538.D

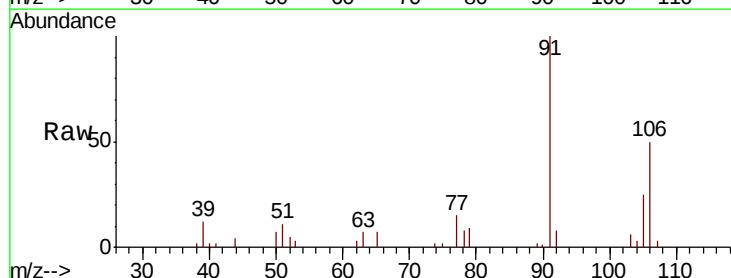
Acq: 06 Oct 2020 19:44

Tgt Ion: 106 Resp: 6693

Ion Ratio Lower Upper

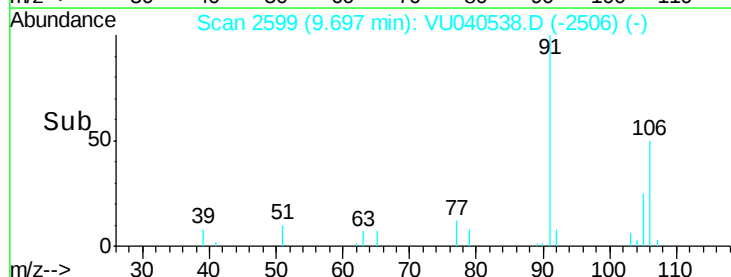
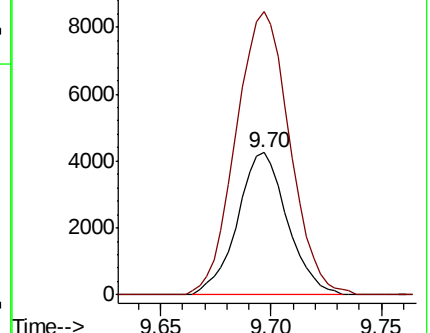
106 100

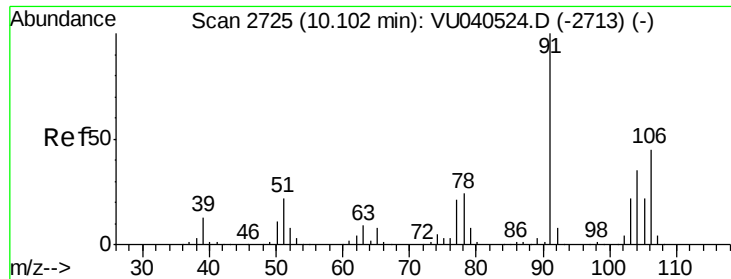
91 199.0 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): VU040524.D (-2584) (-)

Ion 91.00 (90.70 to 91.70): VU040524.D (-2584) (-)





#54

o-xylene

Concen: 1.854 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

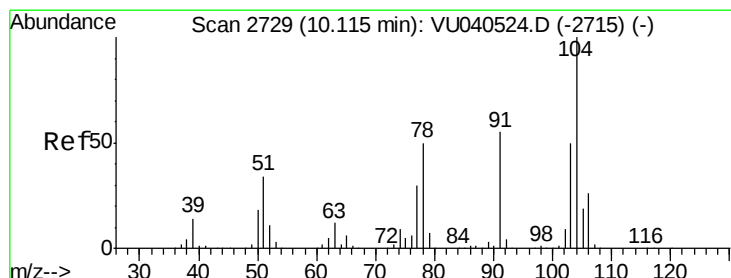
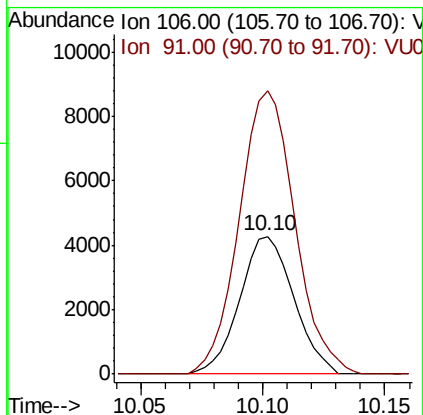
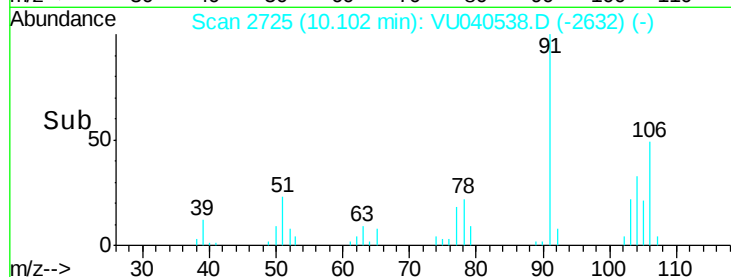
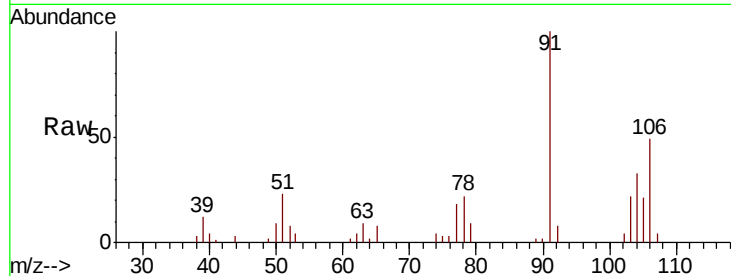
MDL-ME-SOIL-02

Tot Ion:106 Resp: 6581

Ion Ratio Lower Upper

106 100

91 205.6 155.6 289.0



#55

Styrene

Concen: 1.729 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU040538.D

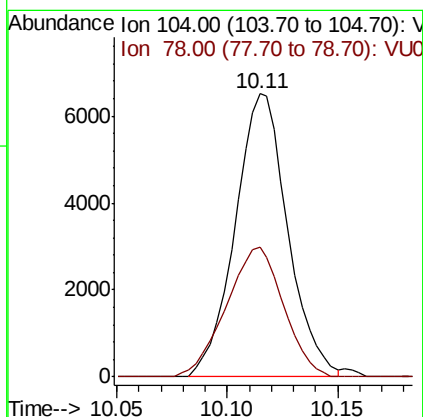
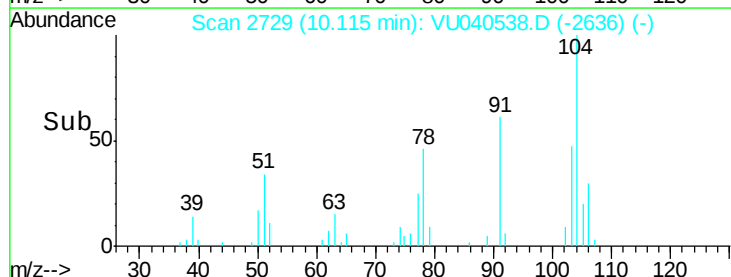
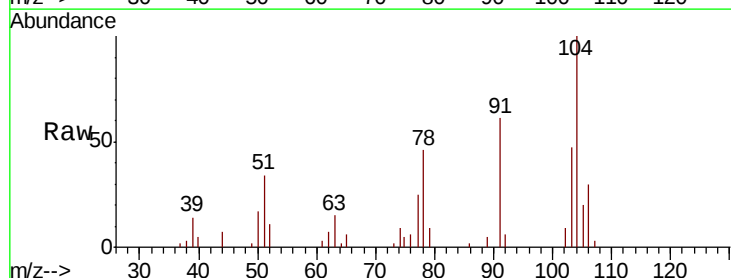
Acq: 06 Oct 2020 19:44

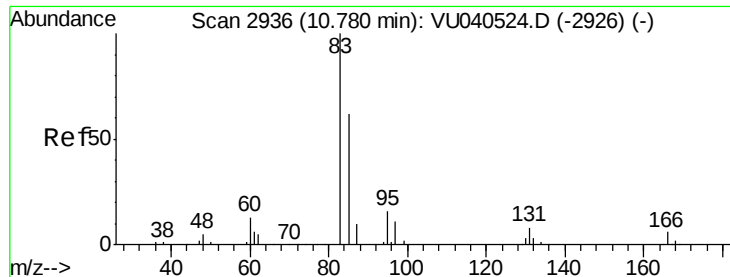
Tgt Ion:104 Resp: 10815

Ion Ratio Lower Upper

104 100

78 45.9 35.2 65.4

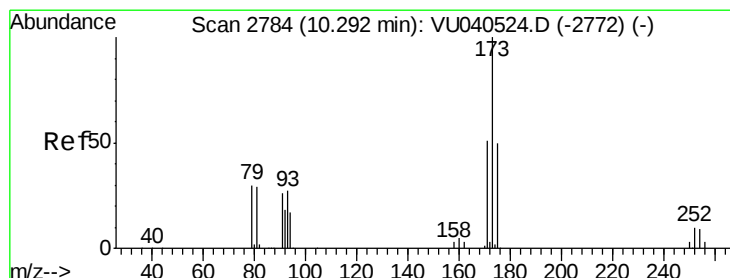
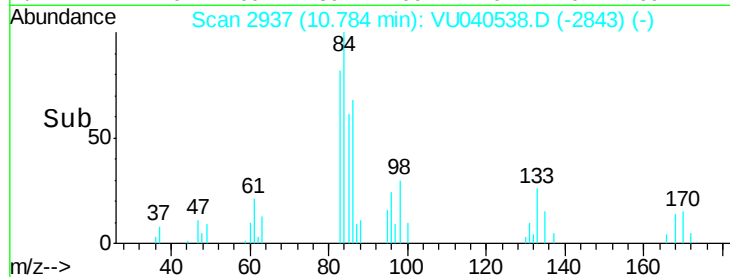
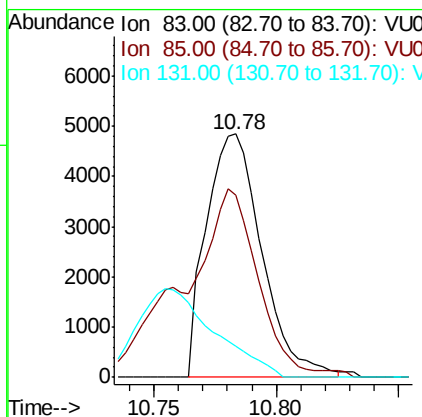
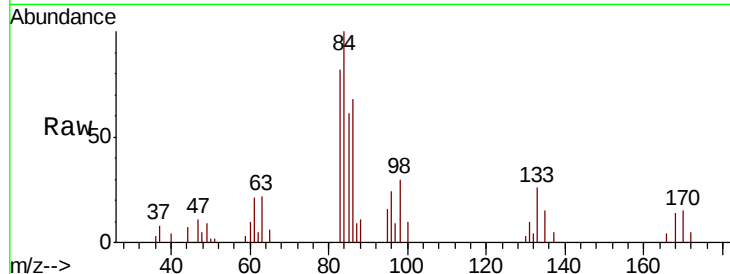




#57
 1,1,2,2-Tetrachloroethane
 Concen: 1.971 ug/L
 RT: 10.78 min Scan# 2937
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

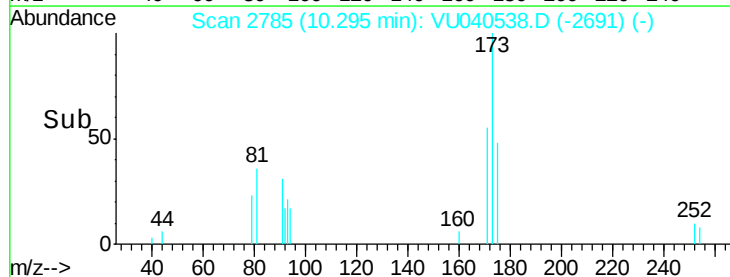
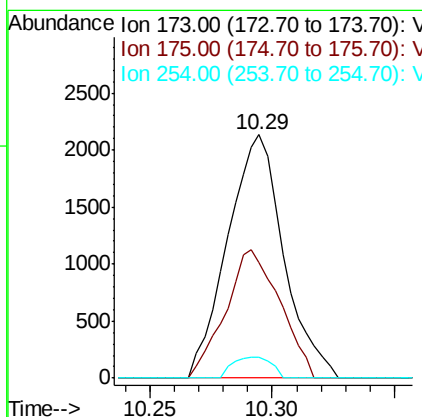
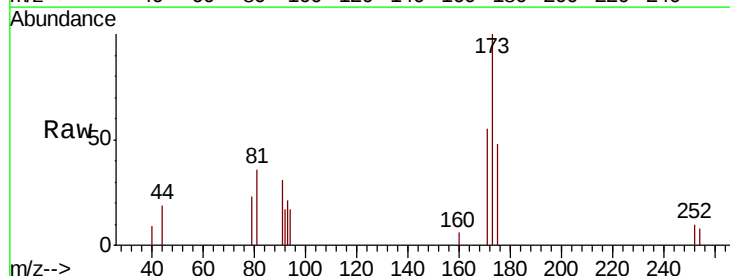
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-02

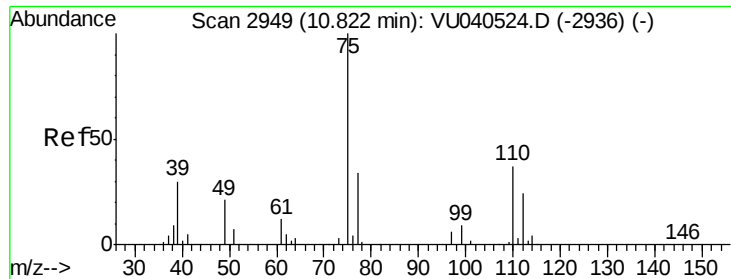
Tot Ion: 83 Resp: 7669
 Ion Ratio Lower Upper
 83 100
 85 74.7 44.2 82.2
 131 12.6 7.1 10.7#



#59
 Bromoform
 Concen: 2.165 ug/L
 RT: 10.29 min Scan# 2785
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Tgt Ion: 173 Resp: 3402
 Ion Ratio Lower Upper
 173 100
 175 51.2 38.5 57.7
 254 5.9 7.0 10.6#

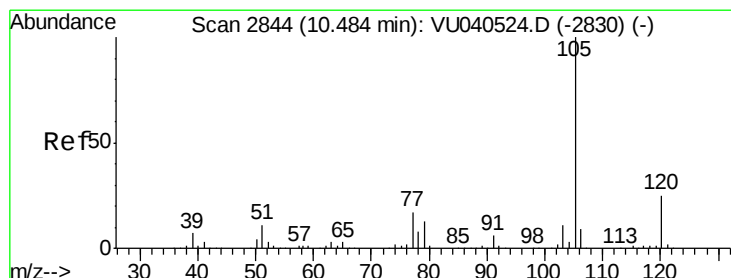
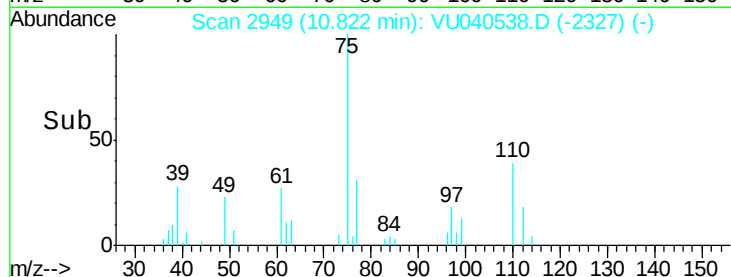
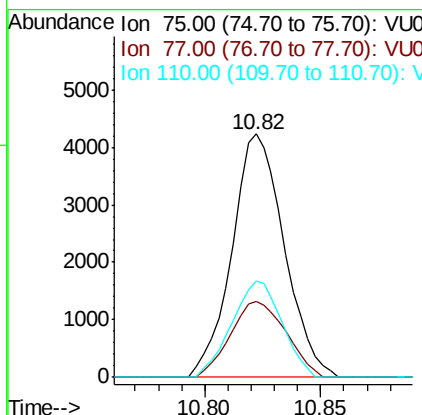
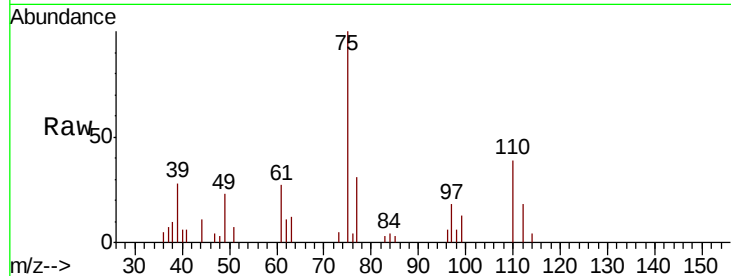




#60
1,2,3-Trichloropropane
Concen: 2.274 ug/L
RT: 10.82 min Scan# 2949
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

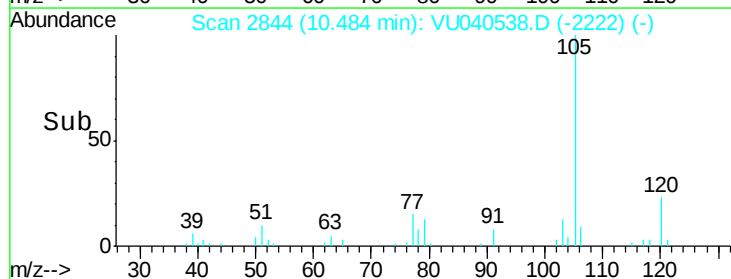
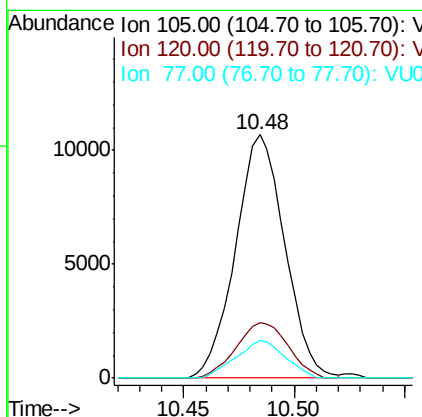
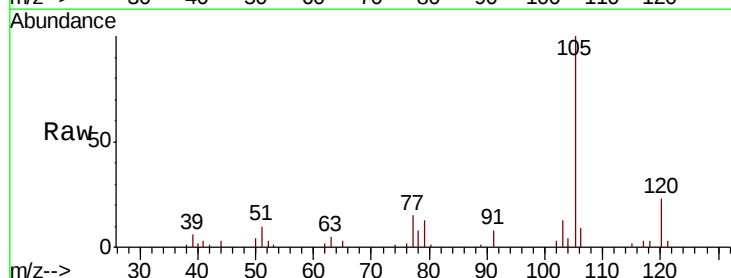
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-02

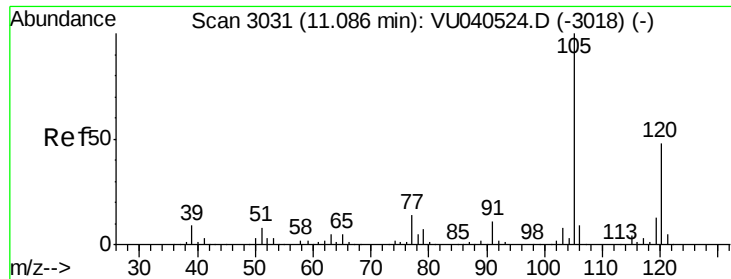
Tot Ion: 75 Resp: 6621
Ion Ratio Lower Upper
75 100
77 33.1 26.4 39.6
110 38.1 30.1 45.1



#61
Isopropylbenzene
Concen: 1.924 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. 0.00 min
Lab File: VU040538.D
Acq: 06 Oct 2020 19:44

Tgt Ion: 105 Resp: 16562
Ion Ratio Lower Upper
105 100
120 24.1 20.7 31.1
77 15.4 13.8 20.8

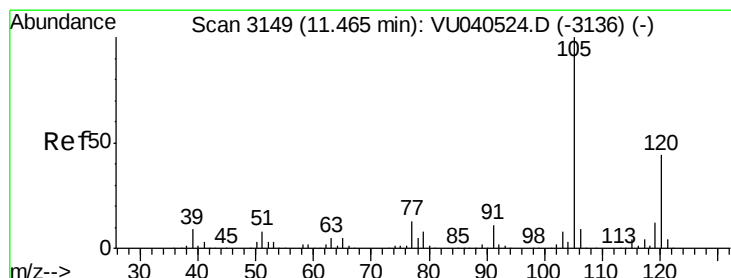
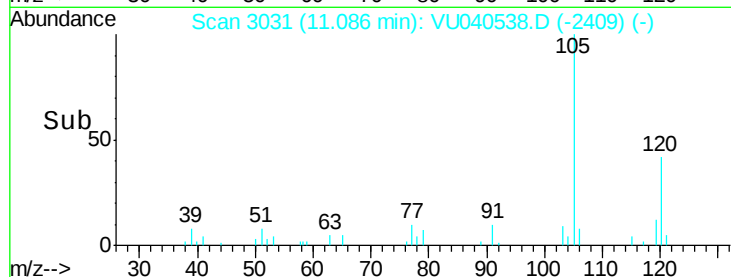
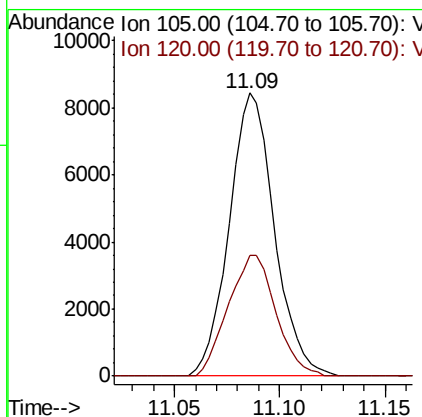
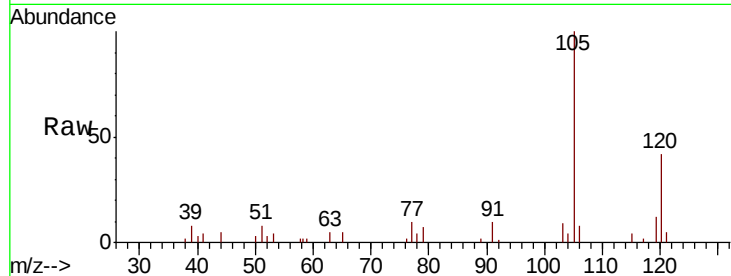




#62
 1,3,5-Trimethylbenzene
 Concen: 1.775 ug/L
 RT: 11.09 min Scan# 3031
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

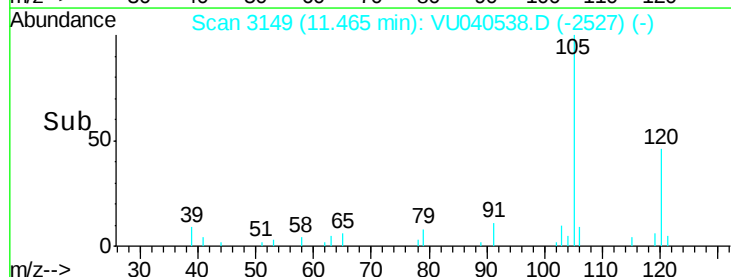
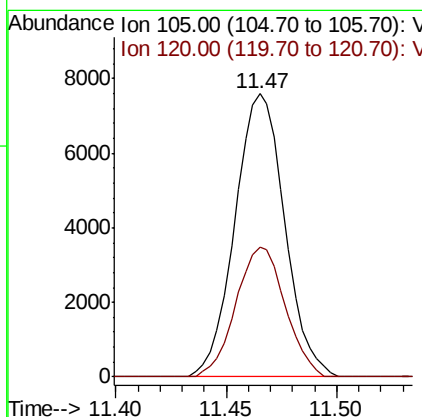
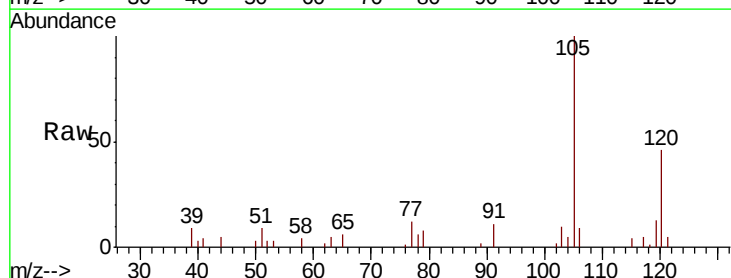
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-02

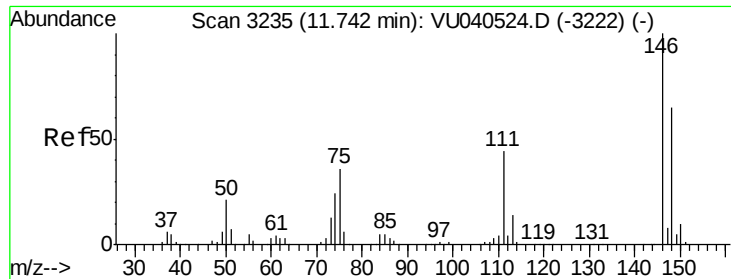
Tot Ion:105 Resp: 12551
 Ion Ratio Lower Upper
 105 100
 120 44.9 38.6 58.0



#63
 1,2,4-Trimethylbenzene
 Concen: 1.659 ug/L
 RT: 11.47 min Scan# 3149
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Tgt Ion:105 Resp: 11903
 Ion Ratio Lower Upper
 105 100
 120 45.3 35.7 53.5

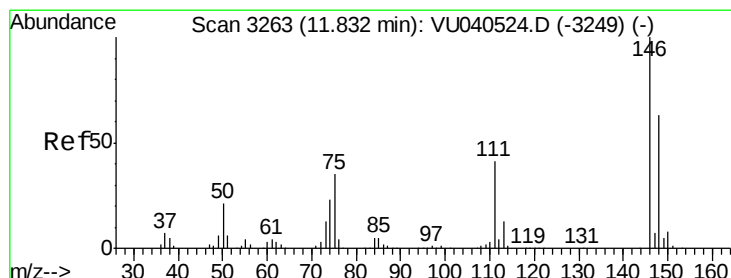
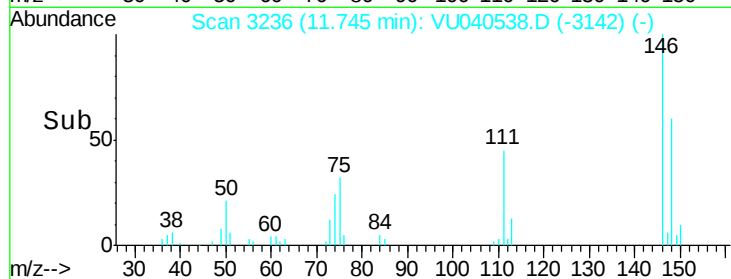
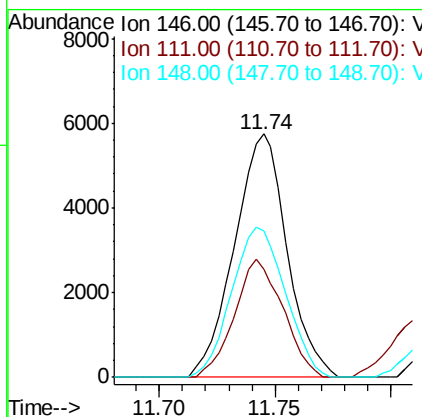
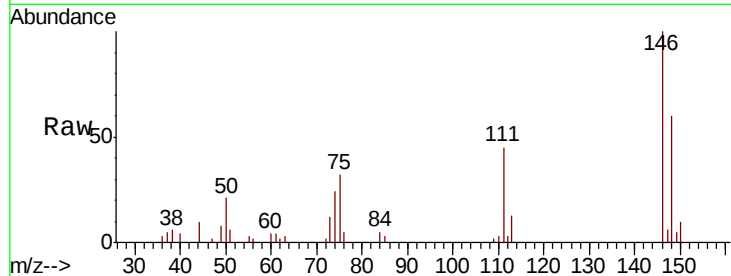




#64
 1,3-Dichlorobenzene
 Concen: 2.157 ug/L
 RT: 11.74 min Scan# 3236
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

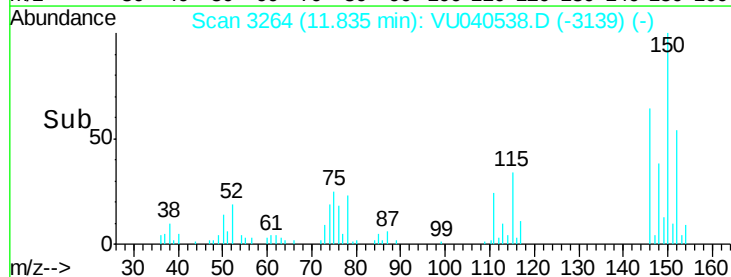
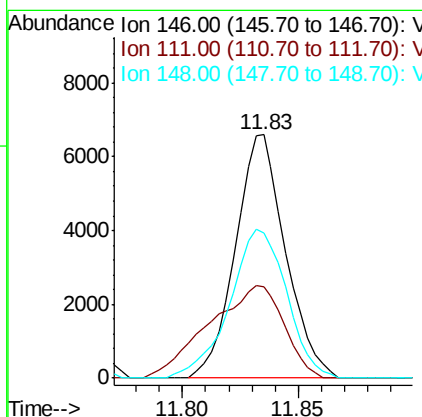
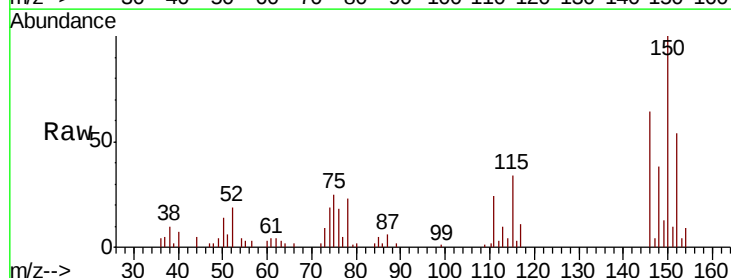
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-02

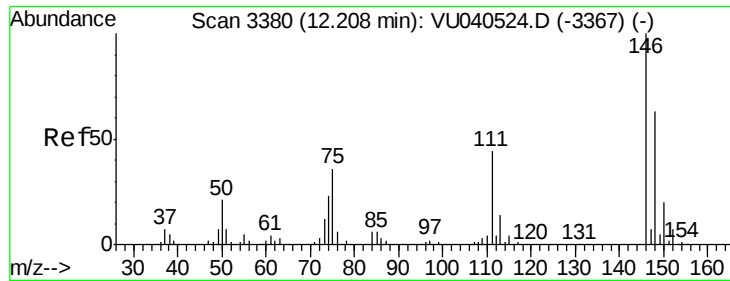
Tot Ion:146 Resp: 9053
 Ion Ratio Lower Upper
 146 100
 111 44.6 30.8 57.2
 148 59.9 45.4 84.2



#65
 1,4-Dichlorobenzene
 Concen: 2.245 ug/L
 RT: 11.83 min Scan# 3264
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Tgt Ion:146 Resp: 9897
 Ion Ratio Lower Upper
 146 100
 111 37.5 28.7 53.3
 148 59.4 44.1 81.9

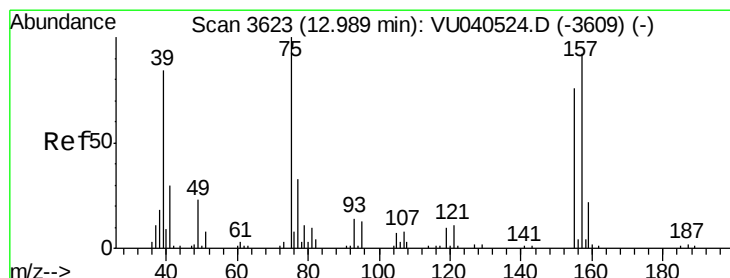
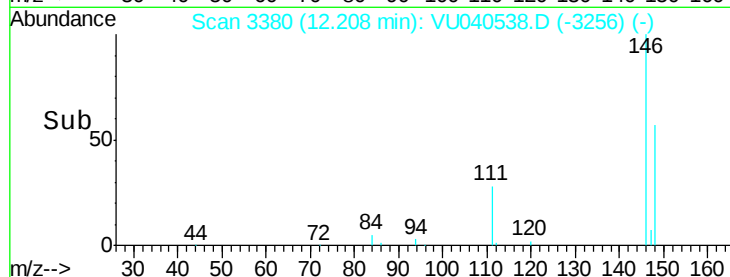
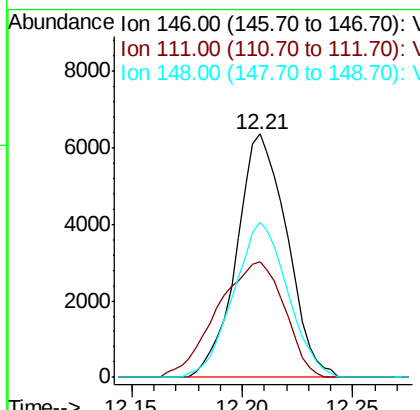
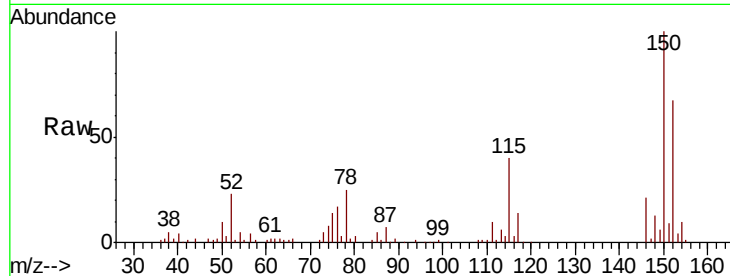




#67
 1,2-Dichlorobenzene
 Concen: 2.400 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

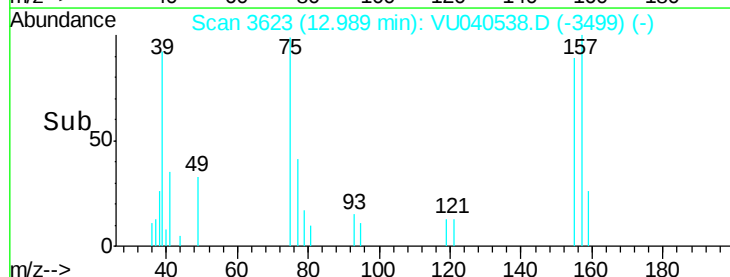
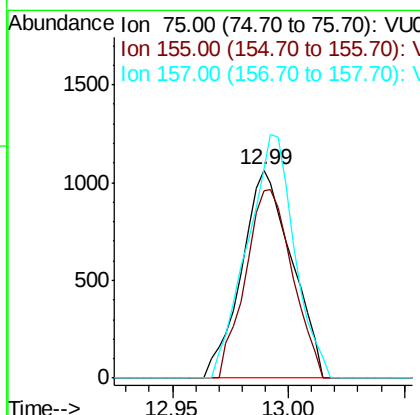
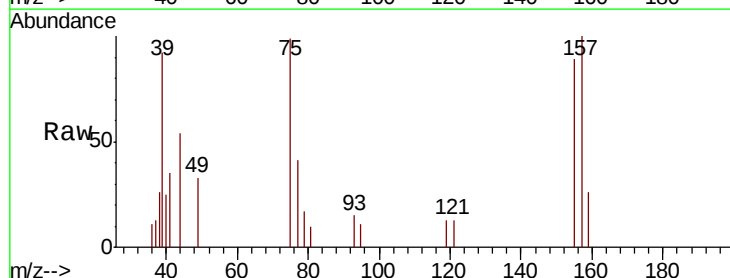
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-02

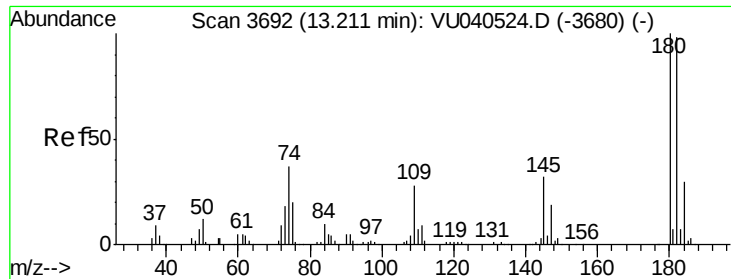
Tot Ion:146 Resp: 10091
 Ion Ratio Lower Upper
 146 100
 111 47.2 35.7 53.5
 148 63.6 50.6 75.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.953 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Tgt Ion: 75 Resp: 1598
 Ion Ratio Lower Upper
 75 100
 155 90.0 61.0 91.6
 157 100.8 73.5 110.3

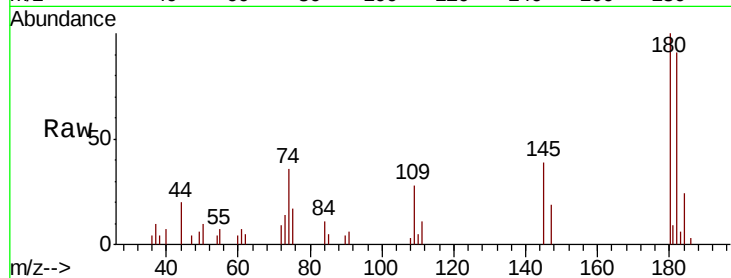




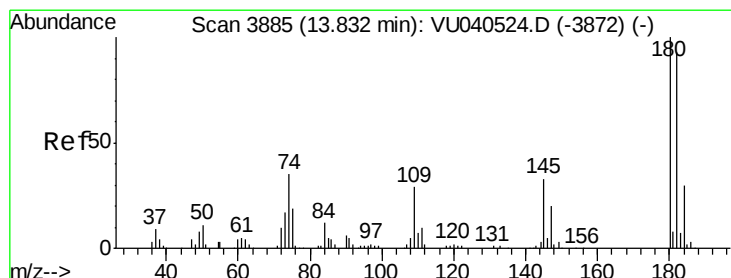
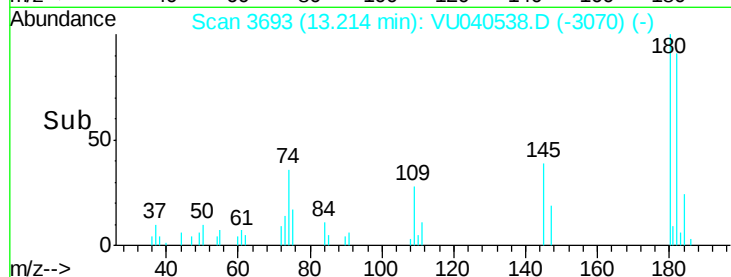
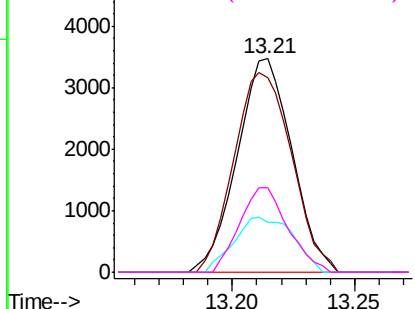
#69
 1,3,5-Trichlorobenzene
 Concen: 1.962 ug/L
 RT: 13.21 min Scan# 3693
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-02

Tot Ion:180 Resp: 5395
 Ion Ratio Lower Upper
 180 100
 182 98.7 76.9 115.3
 184 27.8 24.2 36.2
 145 34.9 25.4 38.2

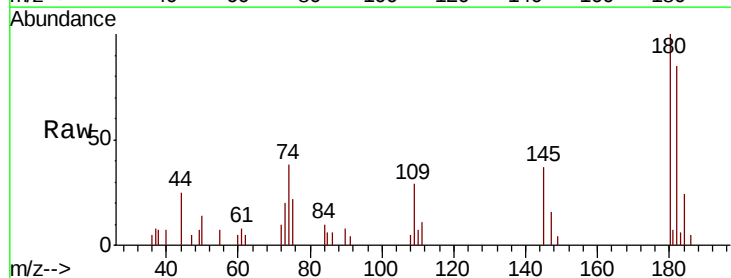


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

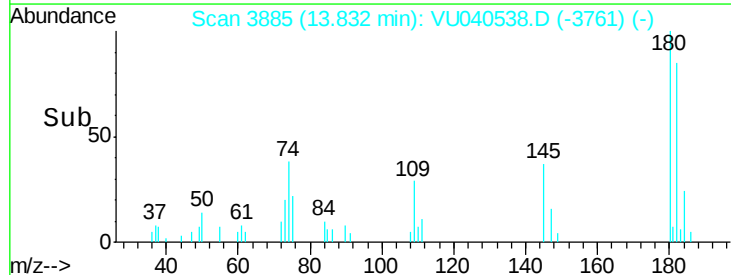
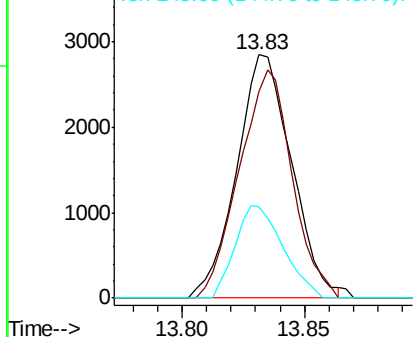


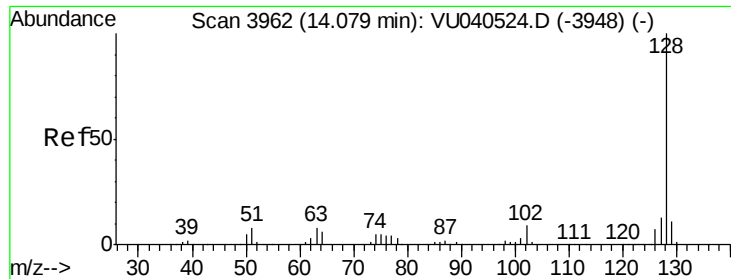
#70
 1,2,4-trichlorobenzene
 Concen: 1.859 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040538.D
 Acq: 06 Oct 2020 19:44

Tgt Ion:180 Resp: 4432
 Ion Ratio Lower Upper
 180 100
 182 90.5 75.0 112.6
 145 33.1 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: 1.359 ug/L

RT: 14.08 min Scan# 3963

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-02

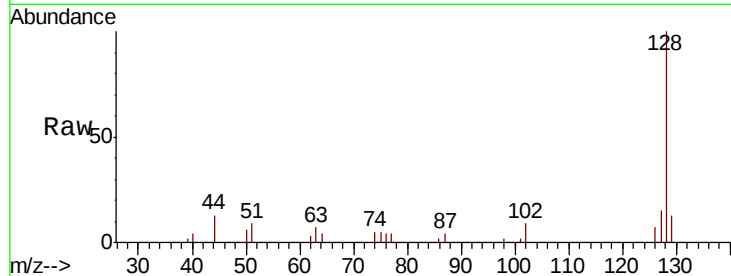
Tot Ion:128 Resp: 10014

Ion Ratio Lower Upper

128 100

127 14.1 10.5 15.7

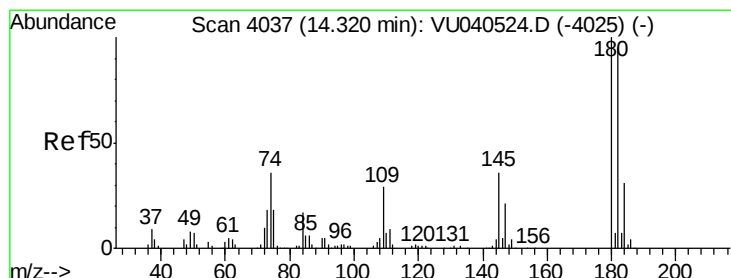
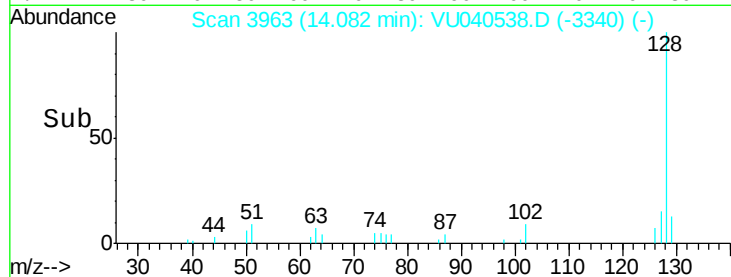
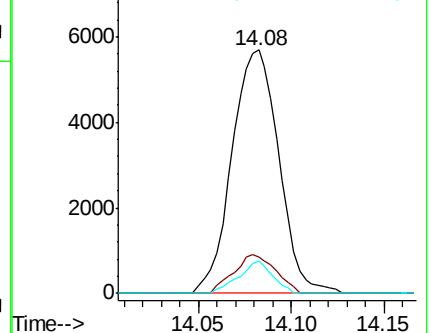
129 9.6 8.6 13.0



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: 1.757 ug/L

RT: 14.32 min Scan# 4038

Delta R.T. 0.00 min

Lab File: VU040538.D

Acq: 06 Oct 2020 19:44

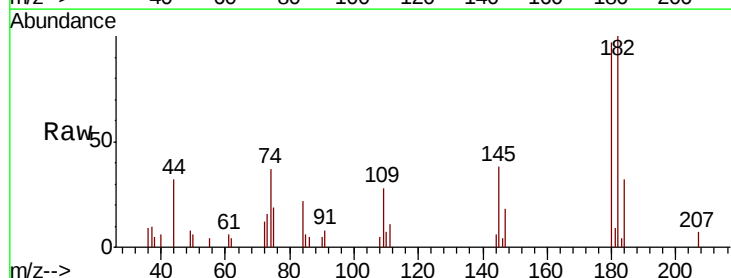
Tgt Ion:180 Resp: 4158

Ion Ratio Lower Upper

180 100

182 97.5 77.7 116.5

145 37.4 28.4 42.6



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

