

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120920\
 Data File : VU041511.D
 Acq On : 09 Dec 2020 13:50
 Operator : SY/MD
 Sample : L4979-15MS
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 04:46:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 10 04:45:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	57327	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	57799	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	30464	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	9024	3.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	61.40%
7) Chloroethane-d5	1.92	69	9674	3.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.80%
11) 1,1-Dichloroethene-d2	2.58	63	25995	3.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.00%
20) 2-Butanone-d5	4.66	46	39619	35.88	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	71.76%
24) Chloroform-d	5.08	84	30509	3.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.00%
26) 1,2-Dichloroethane-d4	5.72	65	22269	4.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.60%
32) Benzene-d6	5.74	84	48624	3.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.60%
36) 1,2-Dichloropropane-d6	6.70	67	13984	3.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	74.20%
41) Toluene-d8	7.90	98	44603	3.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.80%
43) trans-1,3-Dichloropropene-	8.19	79	8739	3.92	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.40%
46) 2-Hexanone-d5	8.64	63	31983	34.45	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	68.90%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	15095	3.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	72.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	23140	4.44	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.95	64	108	0.042	ug/L #	45
12) 1,1-Dichloroethene	2.59	96	15828	4.716	ug/L	87
13) Acetone	2.66	43	5144	5.984	ug/L	83
14) Carbon disulfide	2.81	76	1861	0.180	ug/L #	82
21) 2-Butanone	4.74	43	1554	1.445	ug/L #	53
27) 1,2-Dichloroethane	5.79	62	814	0.131	ug/L #	79
33) Benzene	5.79	78	72031	5.035	ug/L	100
34) Trichloroethene	6.56	95	21757	5.039	ug/L	94
35) Methylcyclohexane	6.78	83	225	0.038	ug/L #	17
37) 1,2-Dichloropropane	6.70	63	2094	0.625	ug/L #	84
39) cis-1,3-Dichloropropene	7.58	75	492	0.081	ug/L	94
42) Toluene	7.98	91	86360	5.363	ug/L	98
44) trans-1,3-Dichloropropene	8.19	75	340	0.056	ug/L #	75
47) Tetrachloroethene	8.55	164	469	0.138	ug/L	84
48) 2-Hexanone	8.64	43	4551	2.109	ug/L #	71
49) Dibromochloromethane	8.56	129	439	0.100	ug/L #	12
51) Chlorobenzene	9.45	112	56987	5.311	ug/L	97

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Instrument :
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ClientSampleId :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120420WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 10 04:45:04 2020
Response via : Initial Calibration

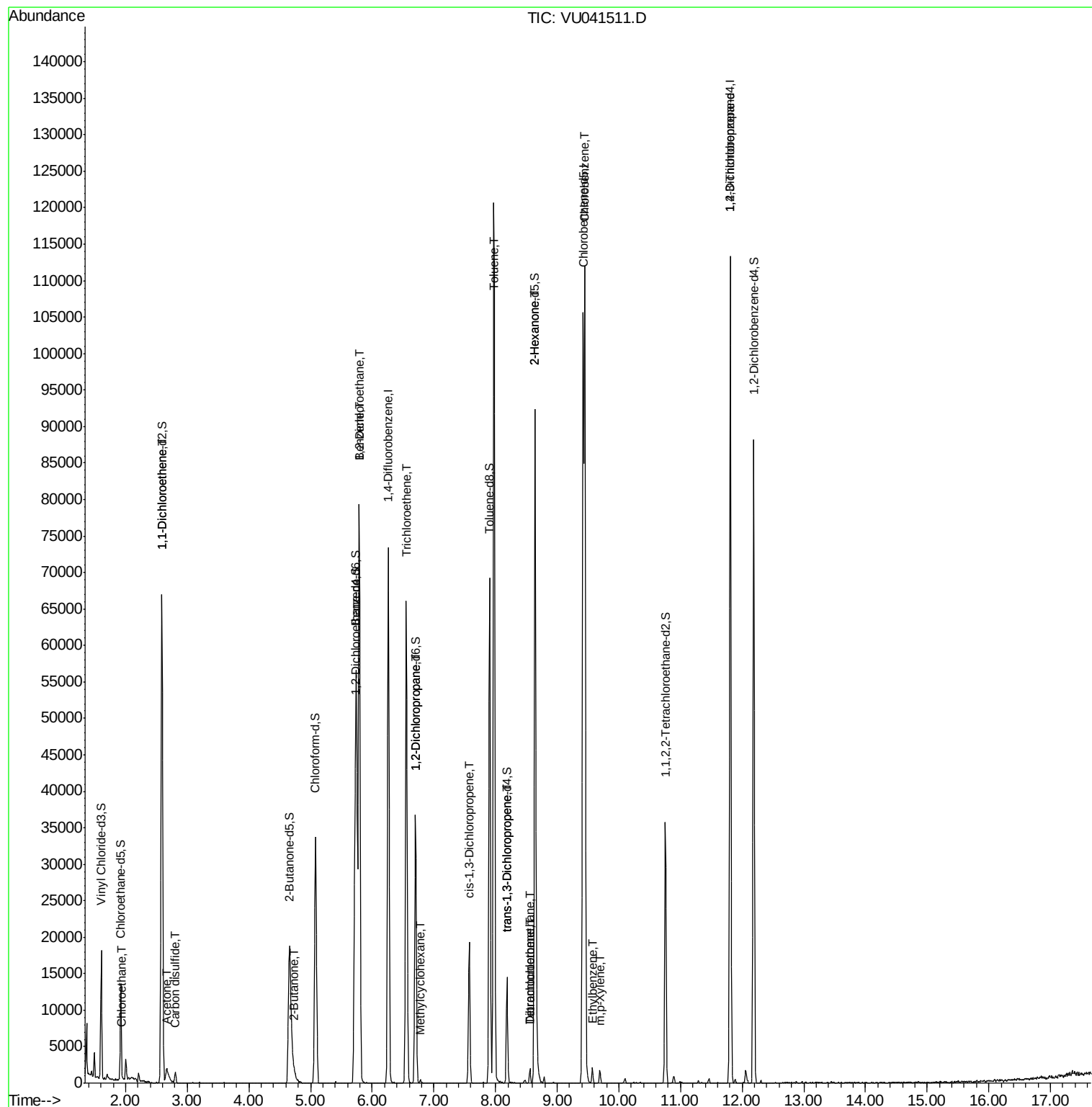
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.57	91	1966	0.107	ug/L	98
53) m,p-Xylene	9.69	106	469	0.070	ug/L	90
59) 1,2,3-Trichloropropane	11.81	75	2781	0.855	ug/L #	77

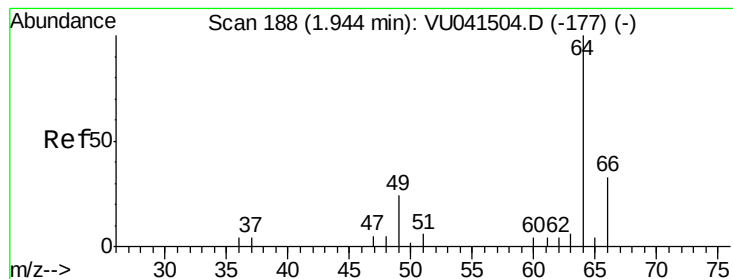
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120420WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 10 04:45:04 2020
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.042 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.01 min

Lab File: VU041511.D

Acq: 09 Dec 2020 13:50

Instrument :

MSVOA_U

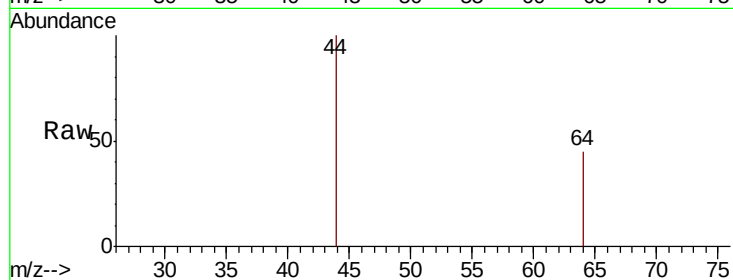
ClientSampled :

Tot Ion: 64 Resp: 108

Ion Ratio Lower Upper

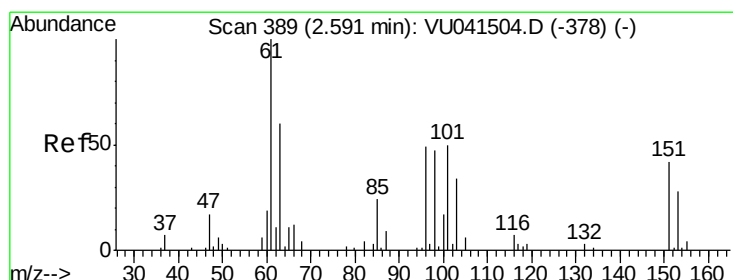
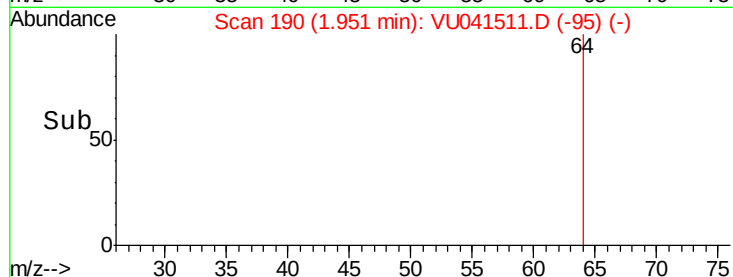
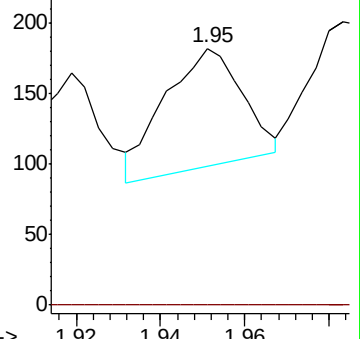
64 100

66 0.0 20.9 38.9#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#12

1,1-Dichloroethene

Concen: 4.716 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041511.D

Acq: 09 Dec 2020 13:50

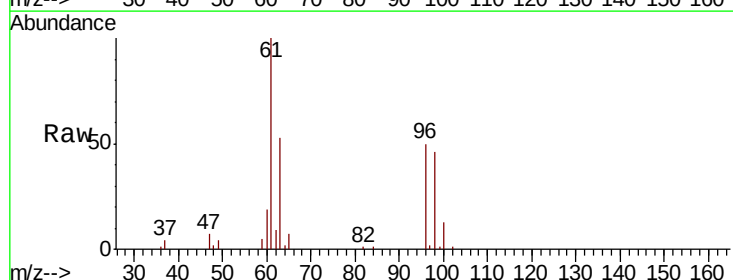
Tgt Ion: 96 Resp: 15828

Ion Ratio Lower Upper

96 100

61 200.9 127.8 237.4

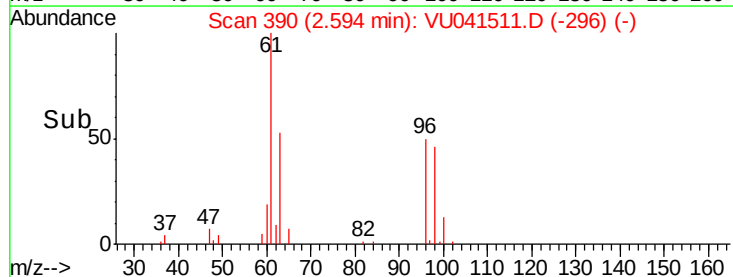
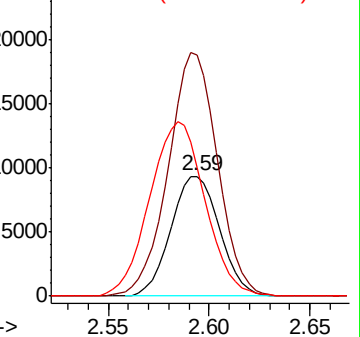
63 107.2 86.2 160.0

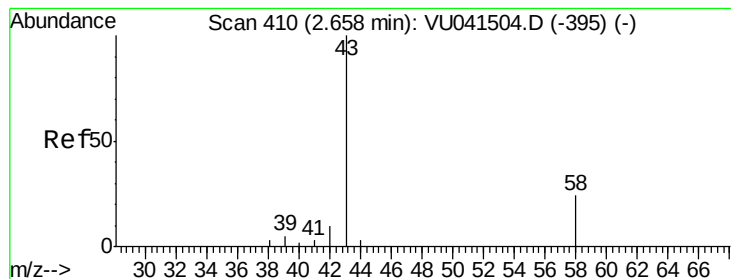


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.984 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

Lab File: VU041511.D

Acq: 09 Dec 2020 13:50

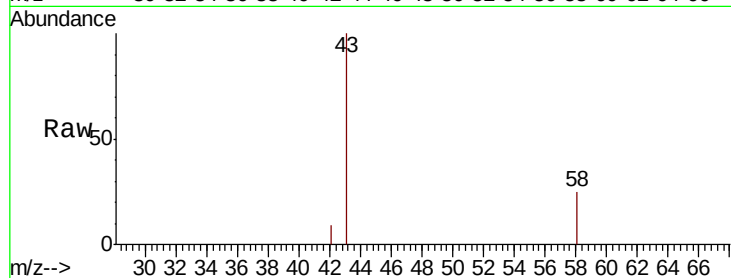
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 5144

Ion Ratio Lower Upper

43 100

58 16.5 0.0 50.0



Abundance Ion 43.05 (42.75 to 43.75): VU041511.D (-317) (-)

Ion 58.05 (57.75 to 58.75): VU041511.D (-317) (-)

2.66

1500

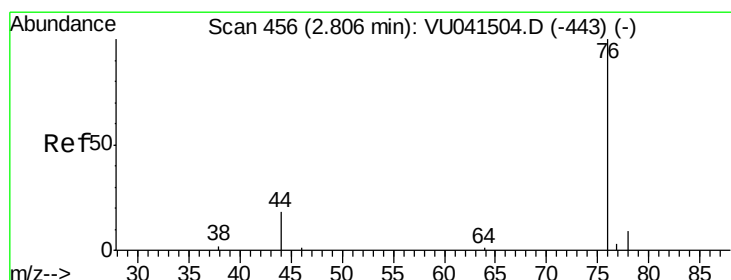
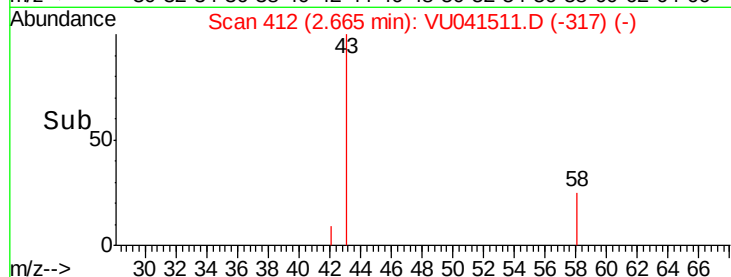
1000

500

0

2.60 2.65 2.70 2.75

Time-->



#14

Carbon disulfide

Concen: 0.180 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041511.D

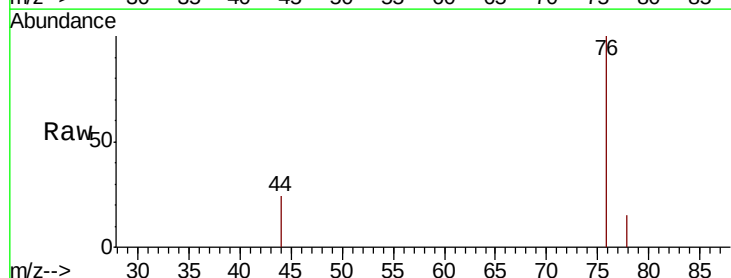
Acq: 09 Dec 2020 13:50

Tgt Ion: 76 Resp: 1861

Ion Ratio Lower Upper

76 100

78 15.1 6.8 10.2#



Abundance Ion 76.05 (75.75 to 76.75): VU041511.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU041511.D (-363) (-)

2.81

1200

1000

800

600

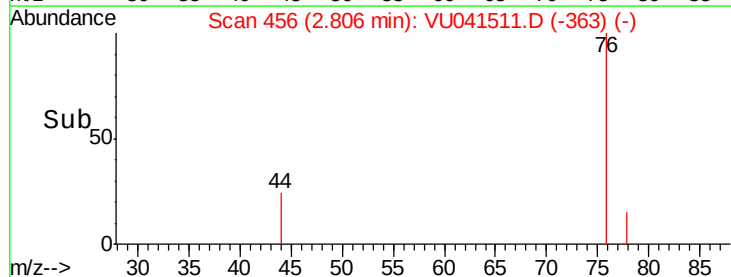
400

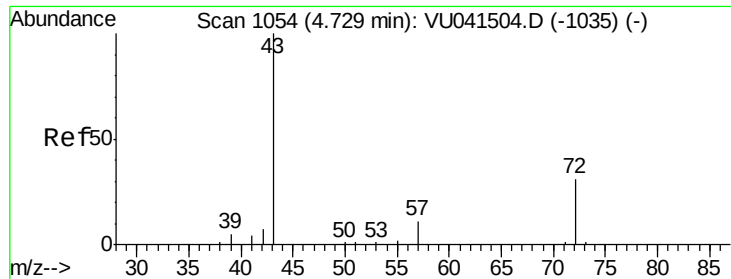
200

0

2.75 2.80 2.85

Time-->





#21

2-Butanone

Concen: 1.445 ug/L

RT: 4.74 min Scan# 1056

Delta R.T. 0.01 min

Lab File: VU041511.D

Acq: 09 Dec 2020 13:50

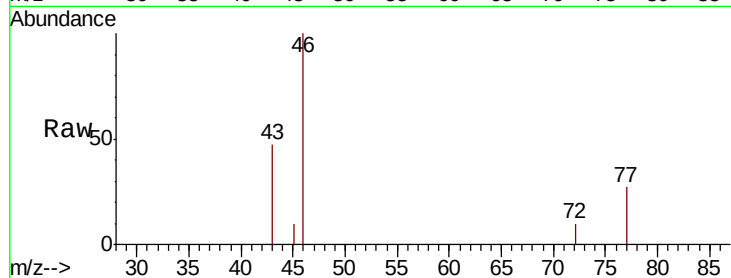
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 1554

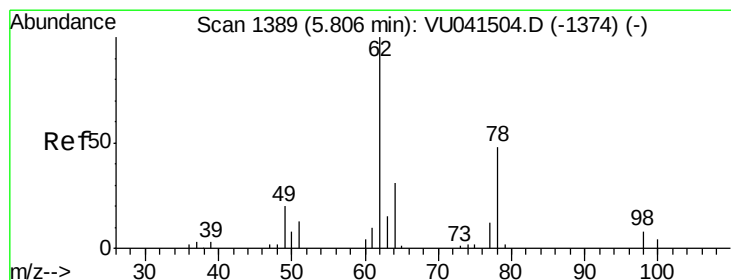
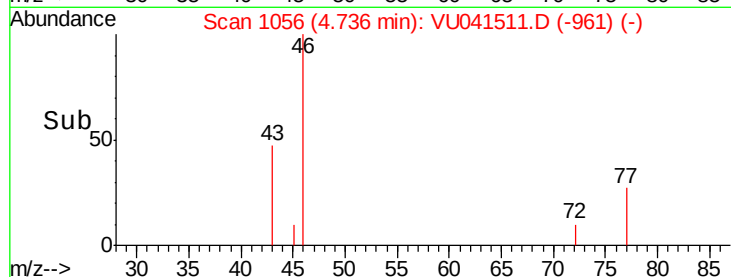
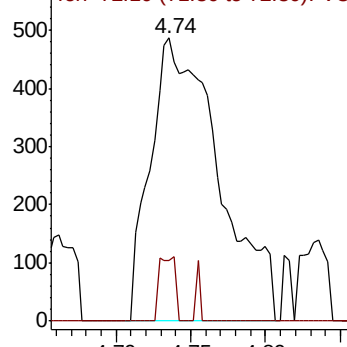
Ion Ratio Lower Upper

43 100

72 5.3 15.7 47.1#



Abundance Ion 43.05 (42.75 to 43.75): VU041511.D (-961) (-)



#27

1,2-Dichloroethane

Concen: 0.131 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. -0.02 min

Lab File: VU041511.D

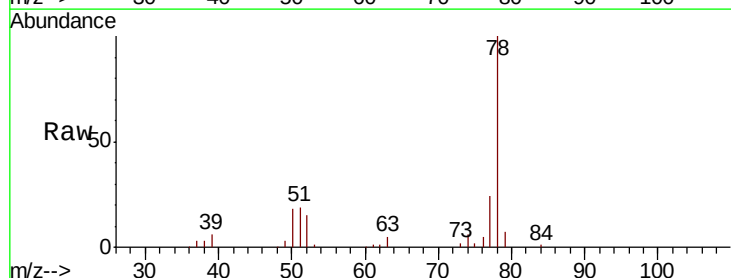
Acq: 09 Dec 2020 13:50

Tgt Ion: 62 Resp: 814

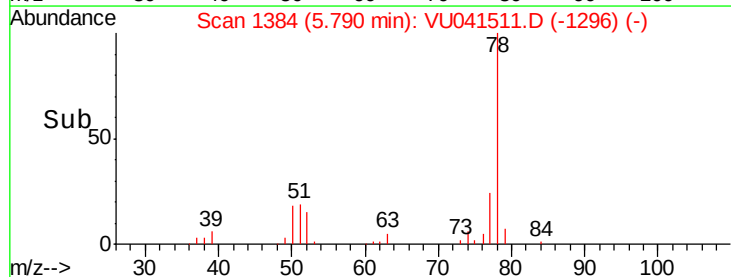
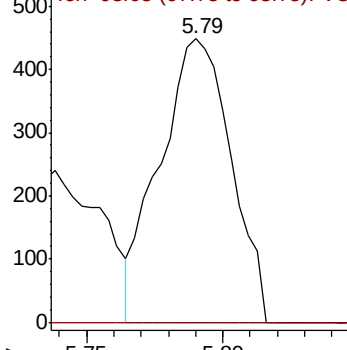
Ion Ratio Lower Upper

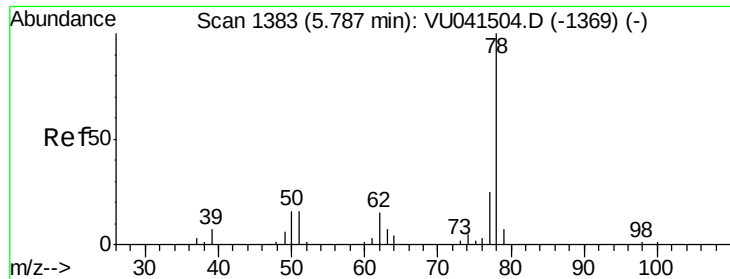
62 100

98 0.0 5.7 8.5#



Abundance Ion 62.00 (61.70 to 62.70): VU041511.D (-1296) (-)





#33

Benzene

Concen: 5.035 ug/L

RT: 5.79 min Scan# 1384

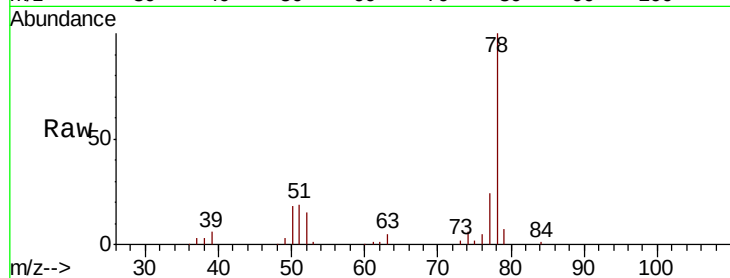
Delta R.T. 0.00 min

Lab File: VU041511.D

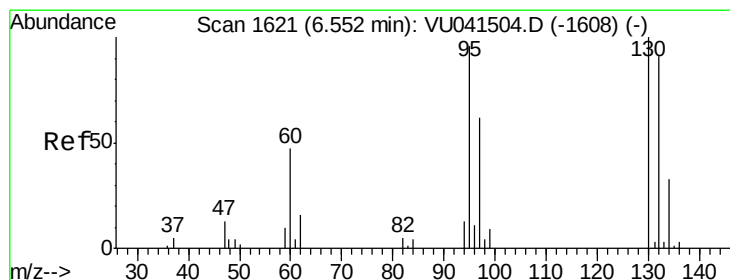
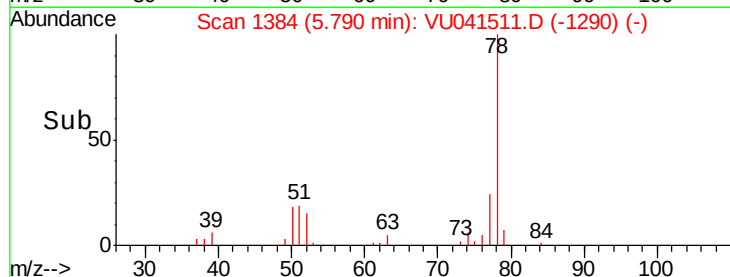
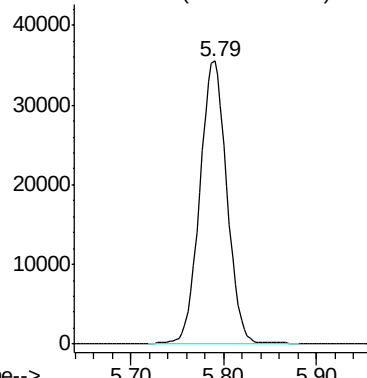
Acq: 09 Dec 2020 13:50

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 72031



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 5.039 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041511.D

Acq: 09 Dec 2020 13:50

Tgt Ion: 95 Resp: 21757

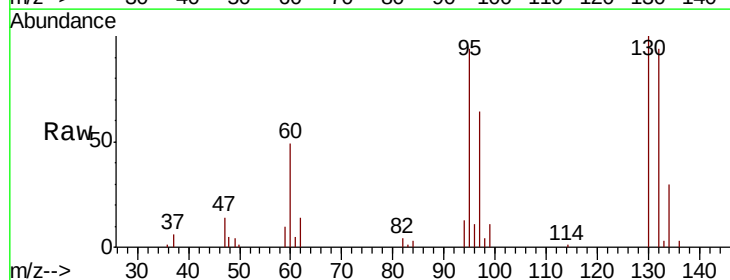
Ion	Ratio	Lower	Upper
95	100		
97	67.4	44.7	83.1
132	100.0	65.7	121.9
130	106.0	68.8	127.8

95 100

97 67.4 44.7 83.1

132 100.0 65.7 121.9

130 106.0 68.8 127.8

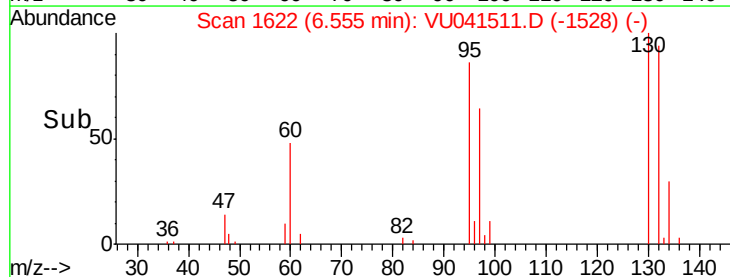
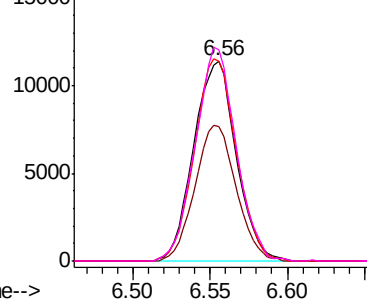


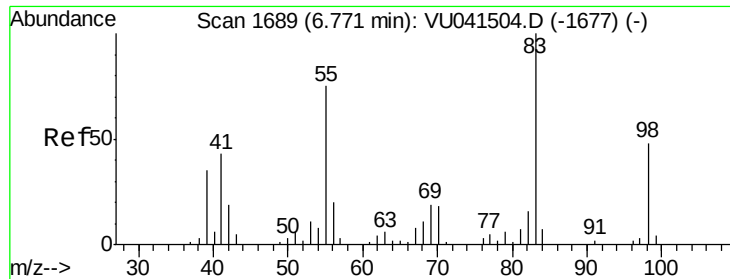
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

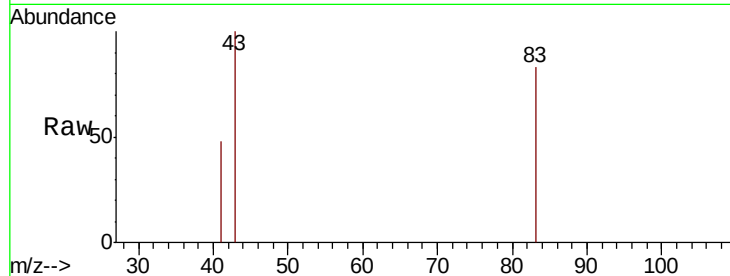




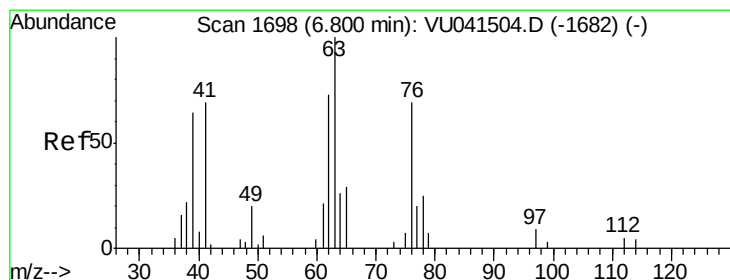
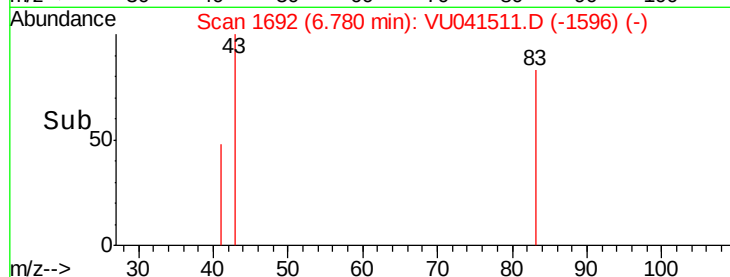
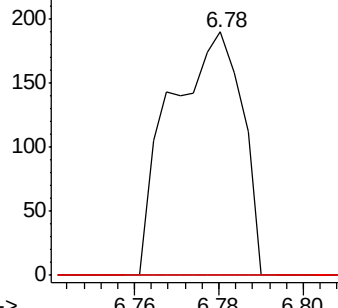
#35
Methylvlcyclohexane
Concen: 0.038 ug/L
RT: 6.78 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 225
Ion Ratio Lower Upper
83 100
55 0.0 62.1 93.1#
98 0.0 38.7 58.1#

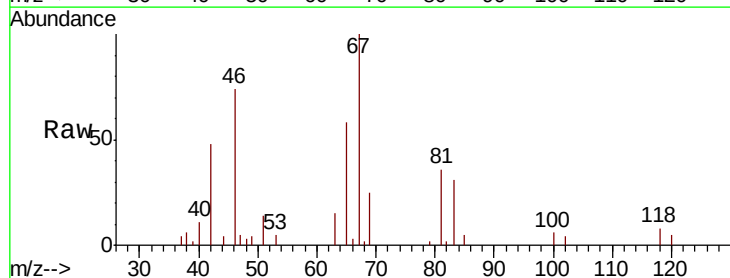


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

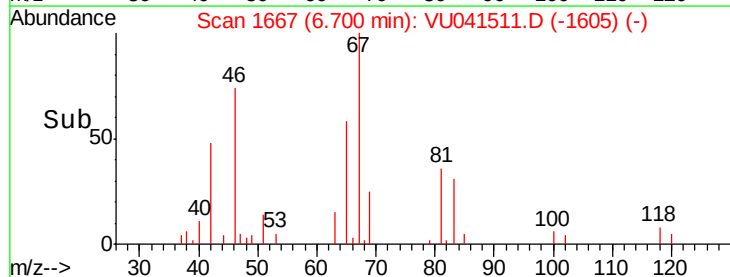
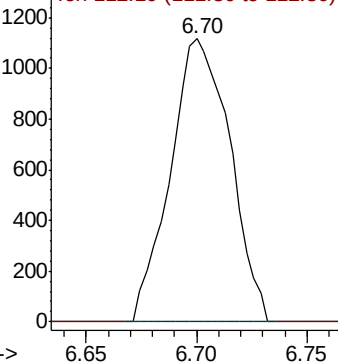


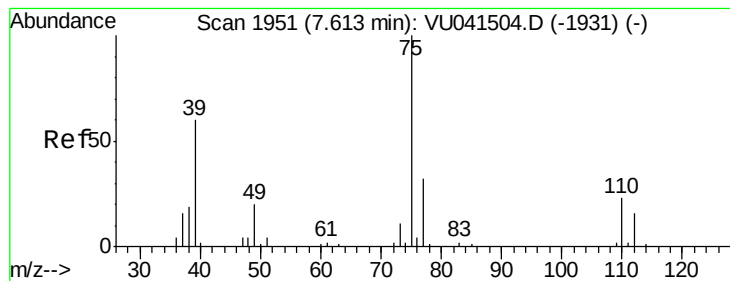
#37
1,2-Dichloropropane
Concen: 0.625 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

Tgt Ion: 63 Resp: 2094
Ion Ratio Lower Upper
63 100
112 0.0 4.2 6.2#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



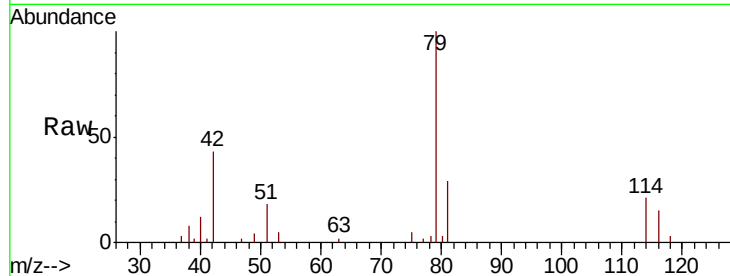


#39

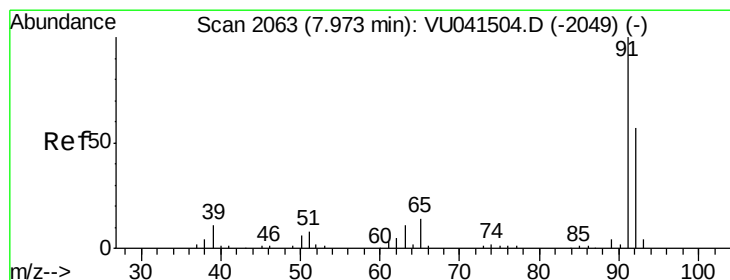
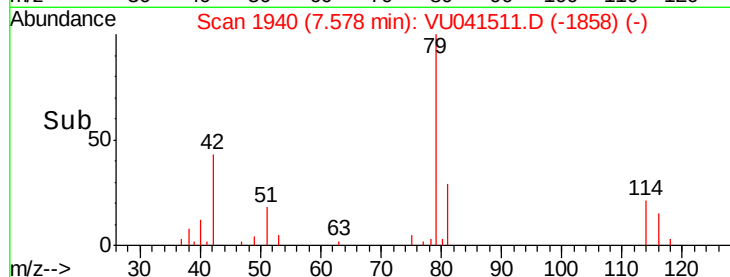
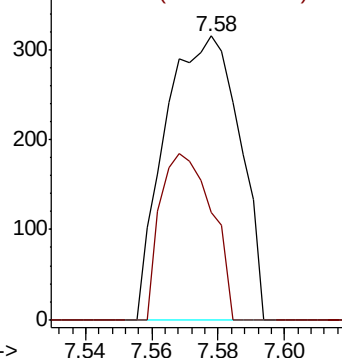
cis-1,3-Dichloropropene
Concen: 0.081 ug/L
RT: 7.58 min Scan# 1940
Delta R.T. -0.04 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 492
Ion Ratio Lower Upper
75 100
77 37.8 24.0 44.6



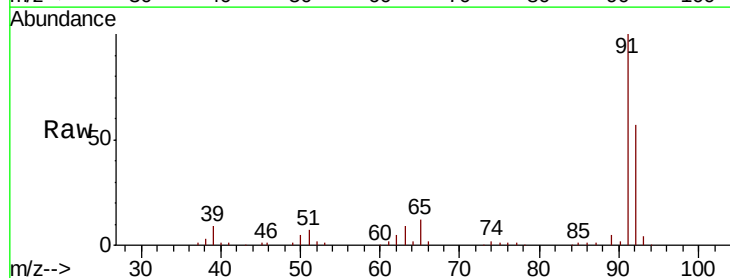
Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0



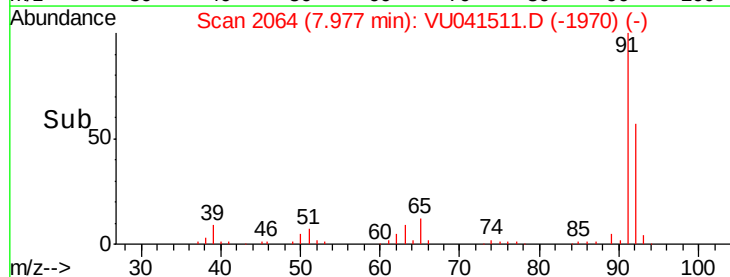
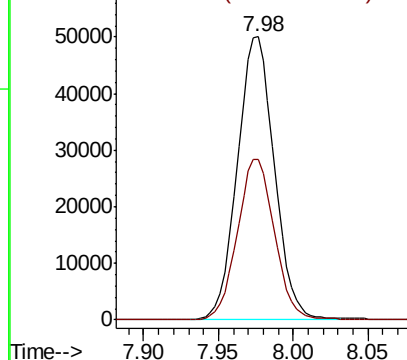
#42

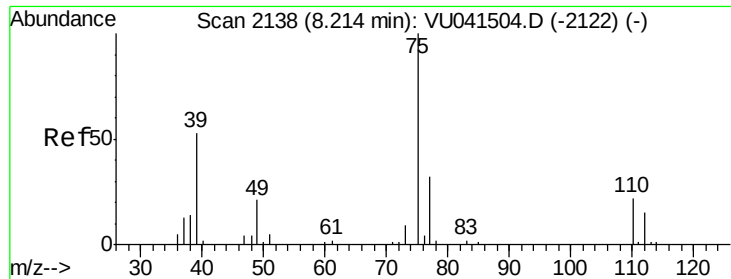
Toluene
Concen: 5.363 ug/L
RT: 7.98 min Scan# 2064
Delta R.T. 0.00 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

Tgt Ion: 91 Resp: 86360
Ion Ratio Lower Upper
91 100
92 56.5 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0

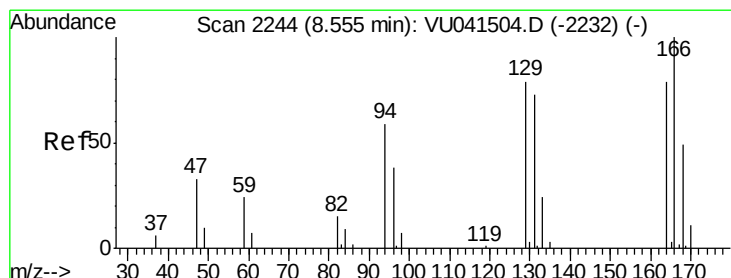
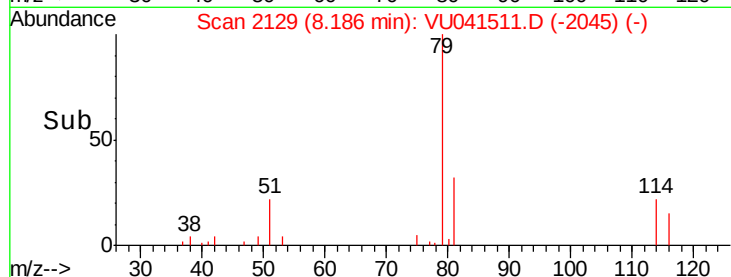
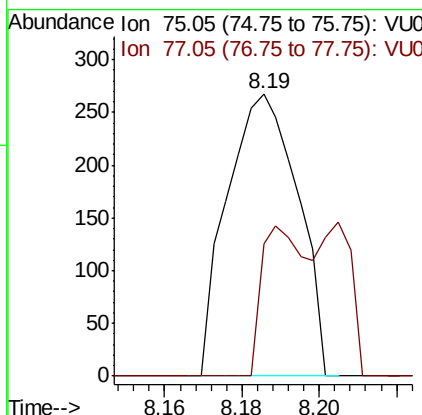
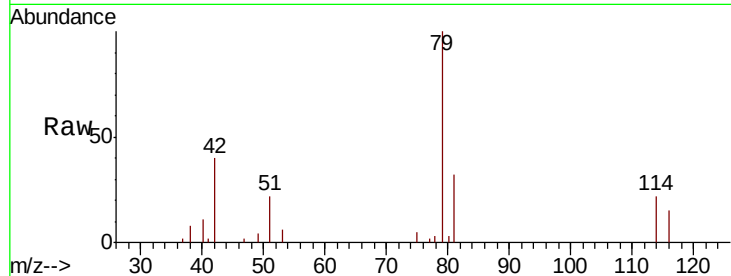




#44
trans-1,3-Dichloropropene
Concen: 0.056 ug/L
RT: 8.19 min Scan# 2129
Delta R.T. -0.03 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

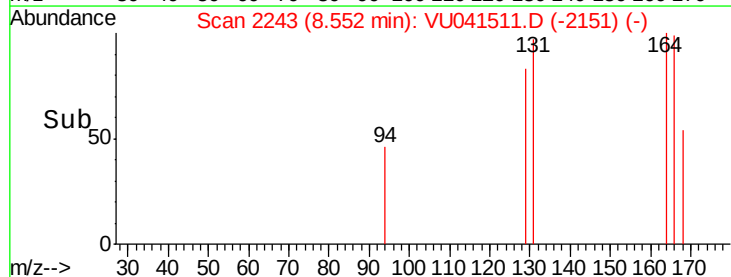
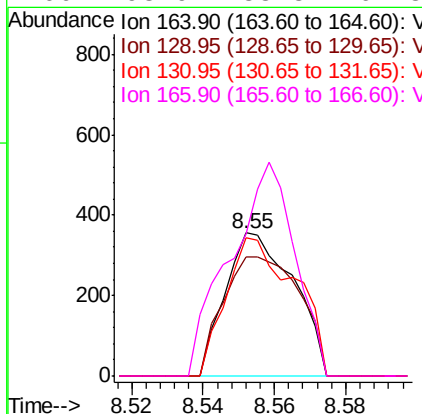
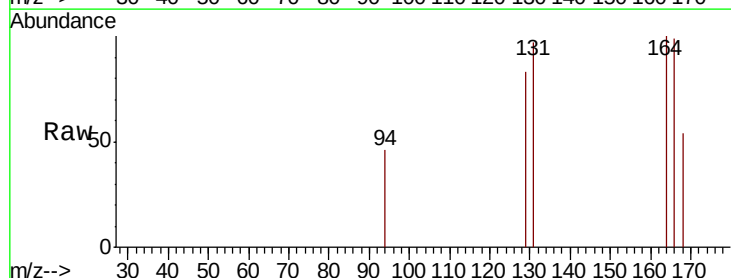
Instrument :
MSVOA_U
ClientSampleId :

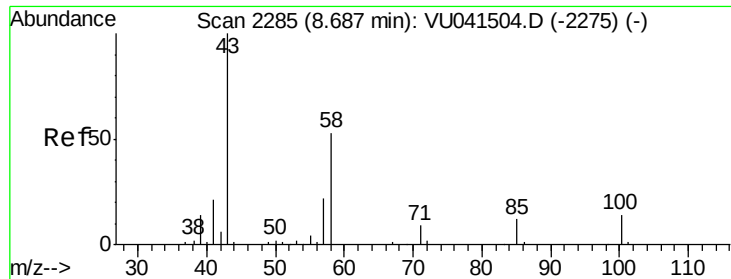
Tot Ion: 75 Resp: 340
Ion Ratio Lower Upper
75 100
77 46.6 22.7 42.3#



#47
Tetrachloroethene
Concen: 0.138 ug/L
RT: 8.55 min Scan# 2243
Delta R.T. -0.00 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

Tgt Ion:164 Resp: 469
Ion Ratio Lower Upper
164 100
129 82.9 67.1 124.7
131 96.9 63.3 117.7
166 98.9 88.8 164.8

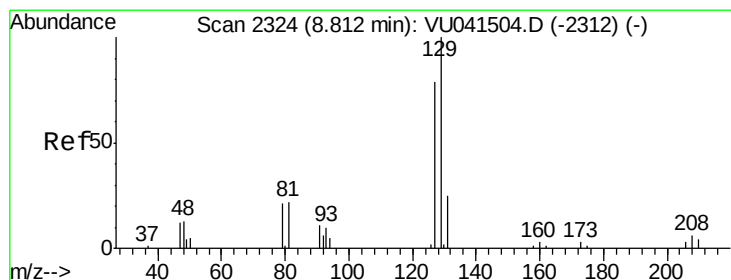
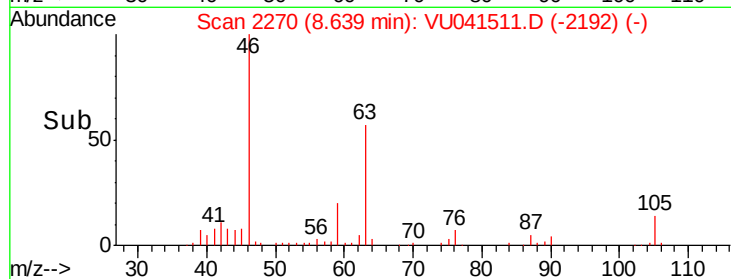
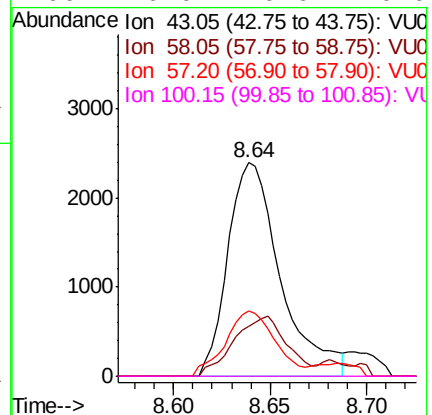
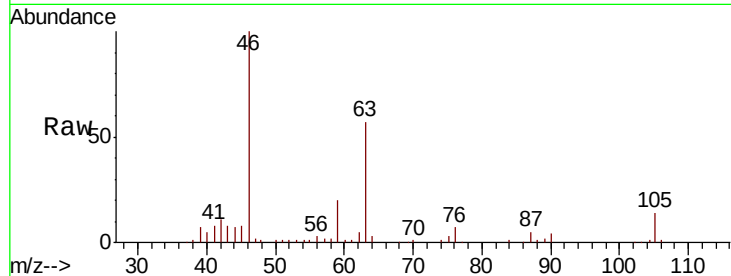




#48
2-Hexanone
Concen: 2.109 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

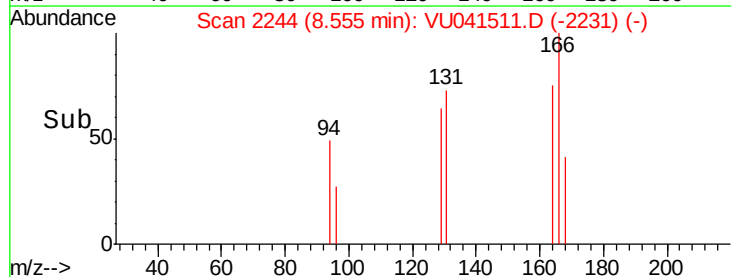
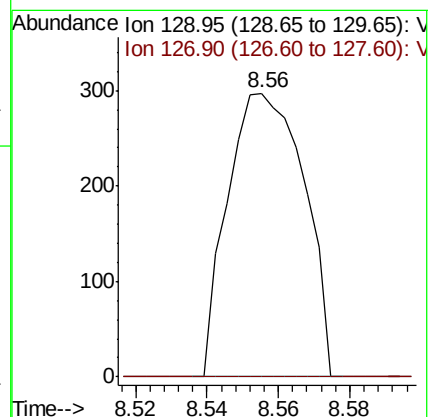
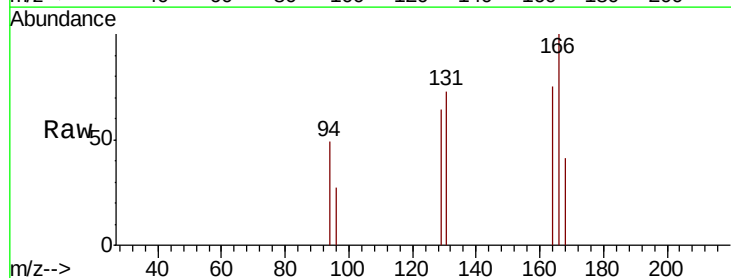
Instrument :
MSVOA_U
ClientSampleId :

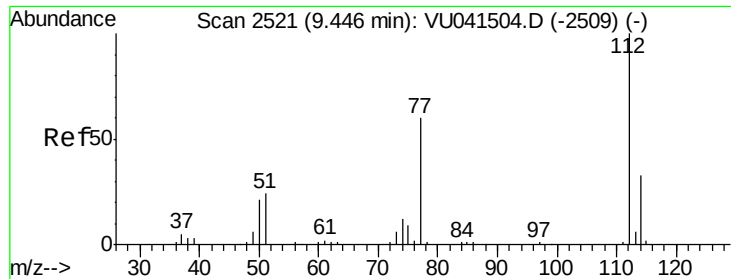
Tot Ion: 43 Resp: 4551
Ion Ratio Lower Upper
43 100
58 28.1 41.4 62.0#
57 28.8 17.1 25.7#
100 0.0 10.6 16.0#



#49
Dibromochloromethane
Concen: 0.100 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

Tgt Ion: 129 Resp: 439
Ion Ratio Lower Upper
129 100
127 0.0 52.4 97.2#

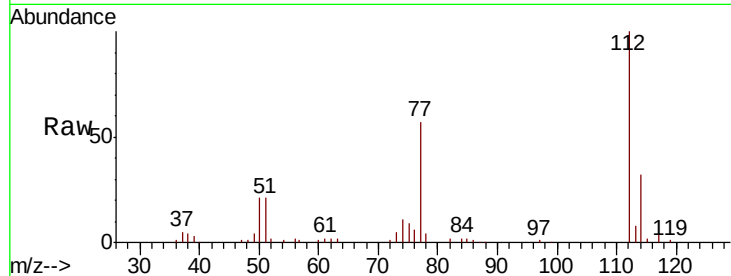




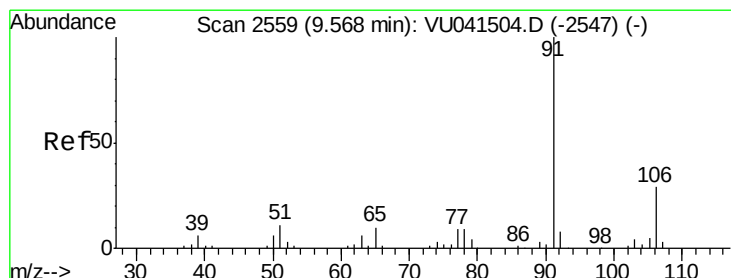
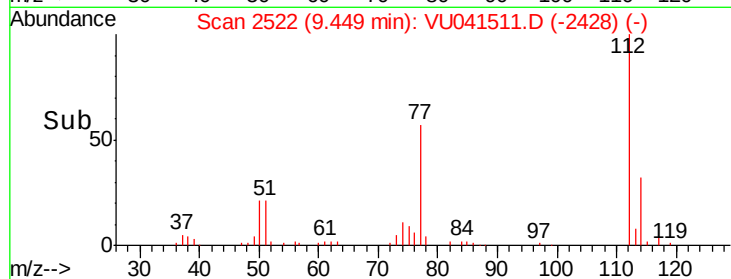
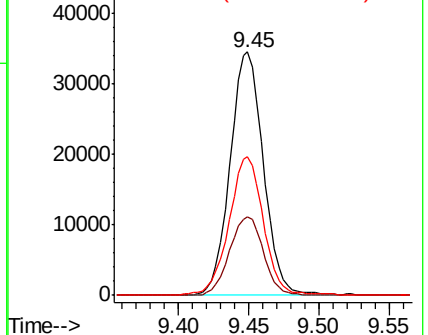
#51
Chlorobenzene
Concen: 5.311 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:112 Resp: 56987
Ion Ratio Lower Upper
112 100
114 32.5 22.7 42.1
77 56.7 48.2 72.2

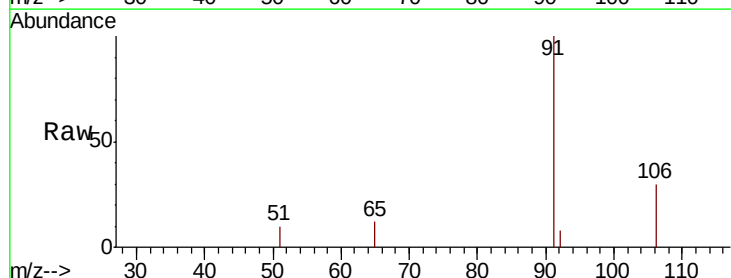


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

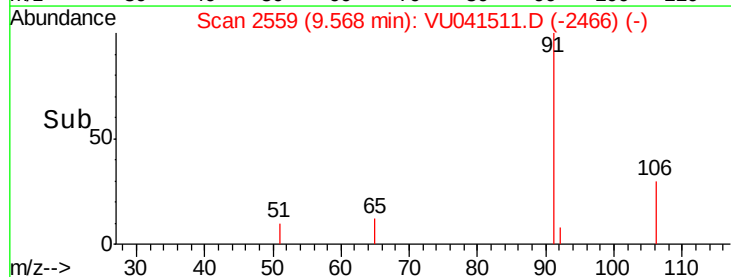
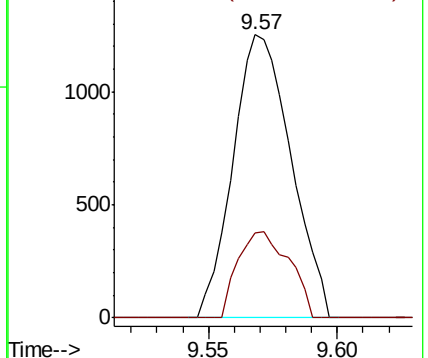


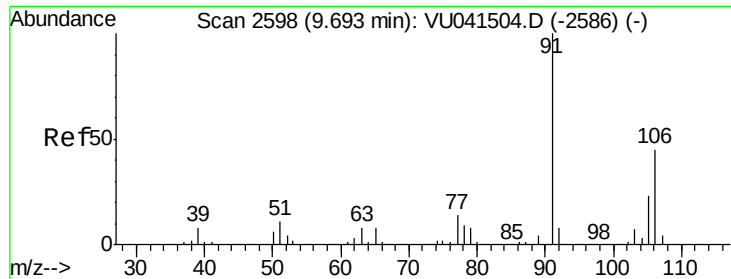
#52
Ethylbenzene
Concen: 0.107 ug/L
RT: 9.57 min Scan# 2559
Delta R.T. 0.00 min
Lab File: VU041511.D
Acq: 09 Dec 2020 13:50

Tgt Ion: 91 Resp: 1966
Ion Ratio Lower Upper
91 100
106 30.1 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.070 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041511.D

Acq: 09 Dec 2020 13:50

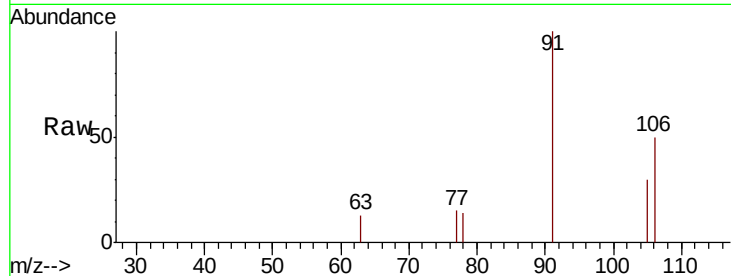
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 469

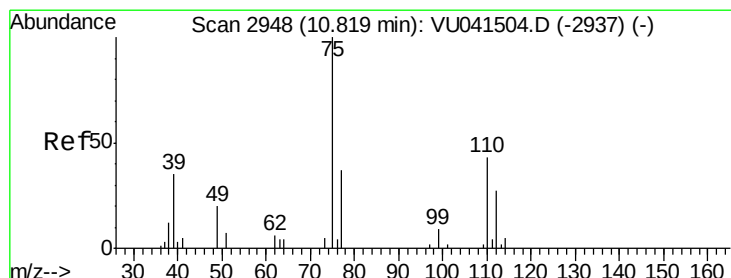
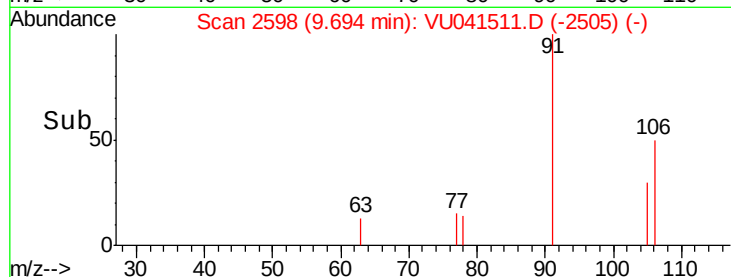
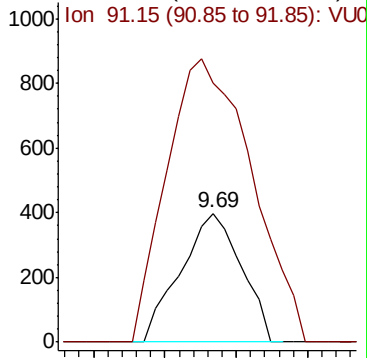
Ion Ratio Lower Upper

106 100

91 200.8 151.8 282.0



Abundance Ion 106.15 (105.85 to 106.85): VU041511.D (-2505) (-)



#59

1,2,3-Trichloropropane

Concen: 0.855 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041511.D

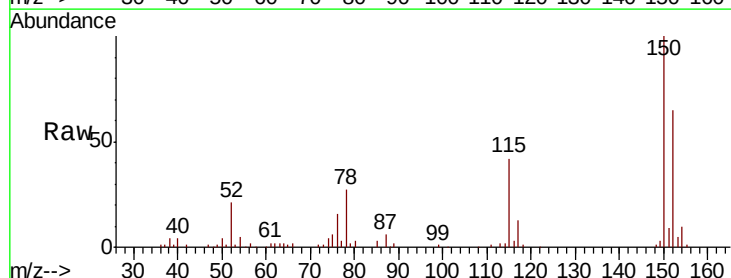
Acq: 09 Dec 2020 13:50

Tgt Ion: 75 Resp: 2781

Ion Ratio Lower Upper

75 100

77 46.0 26.3 39.5#



Abundance Ion 75.00 (74.70 to 75.70): VU041511.D (-2326) (-)

