

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
 Data File : VU038613.D
 Acq On : 06 Jun 2020 13:49
 Operator : SY/MD
 Sample : L2884-04DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXD8DL

Quant Time: Jun 07 04:03:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sun Jun 07 04:01:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	321078	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	315602	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	163140	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	65173	3.14	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	62.80%
7) Chloroethane-d5	1.93	69	64027	4.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.20%
11) 1,1-Dichloroethene-d2	2.59	63	112433	2.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	55.00%#
20) 2-Butanone-d5	4.67	46	354721	56.19	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.38%
24) Chloroform-d	5.10	84	179136	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.74	65	108082	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
32) Benzene-d6	5.76	84	352462	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
36) 1,2-Dichloropropane-d6	6.72	67	113164	4.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.40%
41) Toluene-d8	7.92	98	294208	4.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.20%
43) trans-1,3-Dichloropropene-	8.20	79	44253	4.25	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.00%
46) 2-Hexanone-d5	8.65	63	302693	58.83	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.66%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	103882	5.05	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	133707	4.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	3391	0.136	ug/L #	69
16) Methylene chloride	3.08	84	1569	0.070	ug/L	91
19) 1,1-Dichloroethane	3.92	63	7424	0.195	ug/L #	95
22) cis-1,2-Dichloroethene	4.71	96	11328	0.494	ug/L	95
27) 1,2-Dichloroethane	5.82	62	3638	0.133	ug/L #	92
30) Cyclohexane	5.42	56	9124	0.261	ug/L	89
33) Benzene	5.81	78	65133	0.740	ug/L	100
34) Trichloroethene	6.57	95	3234	0.142	ug/L	86
35) Methylcyclohexane	6.79	83	5048	0.143	ug/L #	78
37) 1,2-Dichloropropane	6.72	63	12601	0.569	ug/L #	86
39) cis-1,3-Dichloropropene	7.59	75	3256	0.099	ug/L #	70
42) Toluene	7.99	91	73456	0.796	ug/L	98
51) Chlorobenzene	9.47	112	41226	0.693	ug/L	99
52) Ethylbenzene	9.59	91	167128	1.627	ug/L	100
53) m,p-Xylene	9.71	106	332182	8.410	ug/L	96
54) o-Xylene	10.11	106	206618	5.449	ug/L	99
55) Styrene	10.12	104	13509	0.210	ug/L #	1

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Instrument :
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BFXD8DL

Quant Time: Jun 07 04:03:27 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sun Jun 07 04:01:21 2020
Response via : Initial Calibration

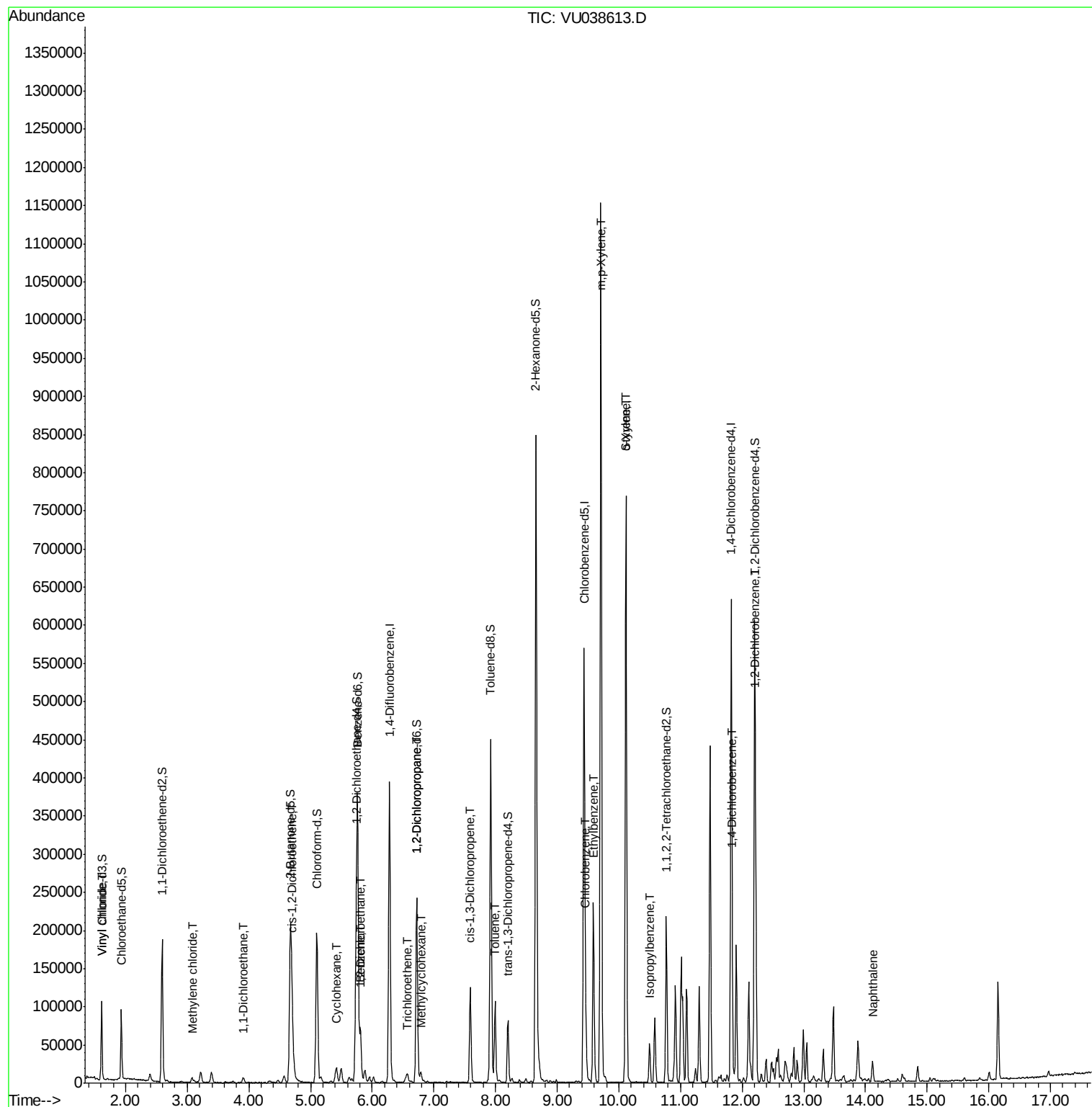
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.50	105	33029	0.331	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	5775	0.119	ug/L	91
65) 1,2-Dichlorobenzene	12.22	146	61464	1.350	ug/L	99
69) Naphthalene	14.11	128	21498	0.326	ug/L	96

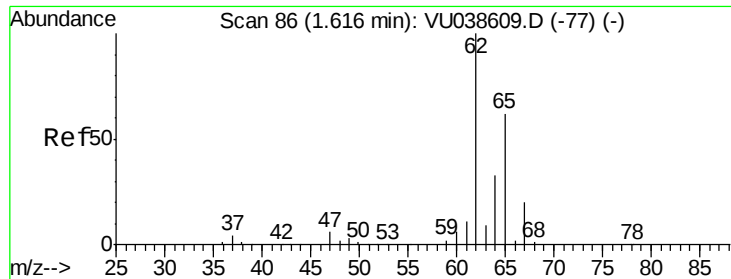
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sun Jun 07 04:01:21 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.136 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038613.D

Acq: 06 Jun 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

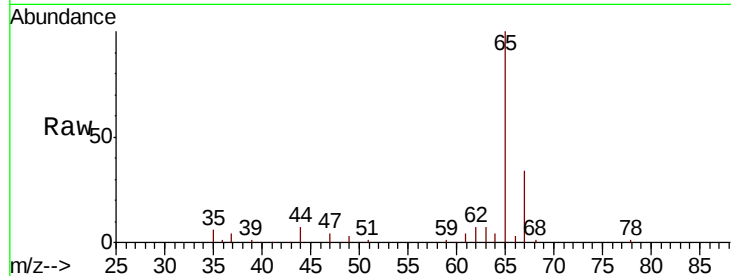
BFXD8DL

Tot Ion: 62 Resp: 3391

Ion Ratio Lower Upper

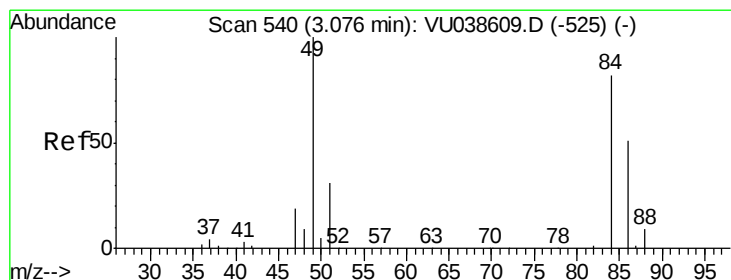
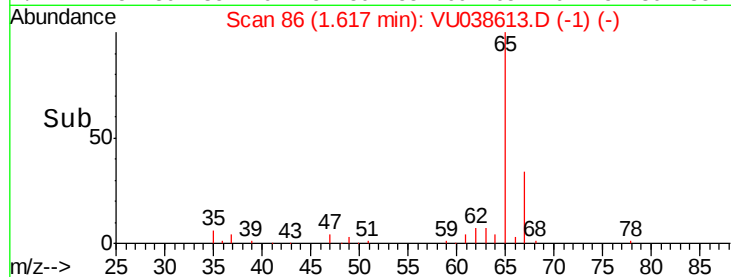
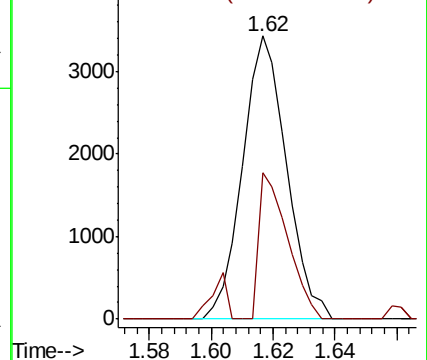
62 100

64 51.7 23.7 43.9#



Abundance Ion 62.00 (61.70 to 62.70): VU038613.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU038613.D (-1) (-)



#16

Methylene chloride

Concen: 0.070 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU038613.D

Acq: 06 Jun 2020 13:49

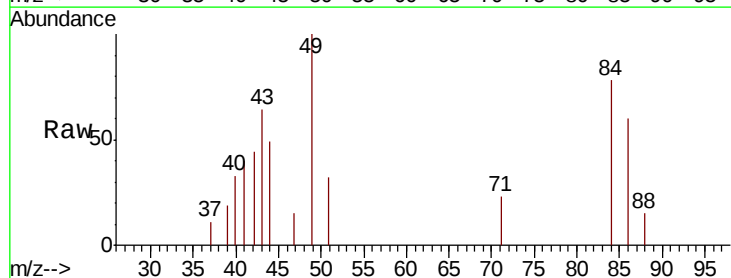
Tgt Ion: 84 Resp: 1569

Ion Ratio Lower Upper

84 100

86 77.2 45.0 83.6

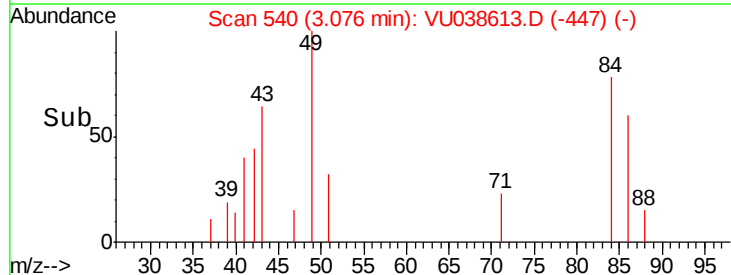
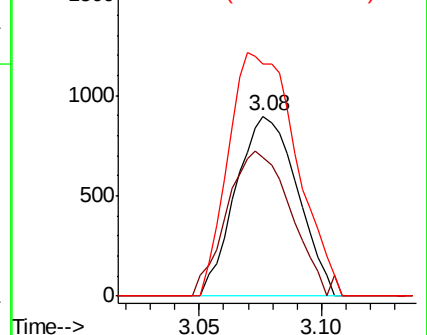
49 128.7 85.5 158.9

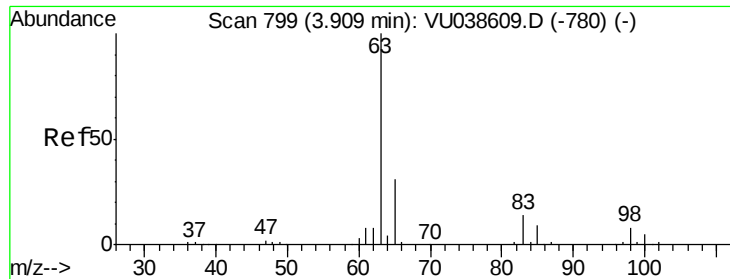


Abundance Ion 84.05 (83.75 to 84.75): VU038613.D (-447) (-)

Ion 86.00 (85.70 to 86.70): VU038613.D (-447) (-)

Ion 49.10 (48.80 to 49.80): VU038613.D (-447) (-)

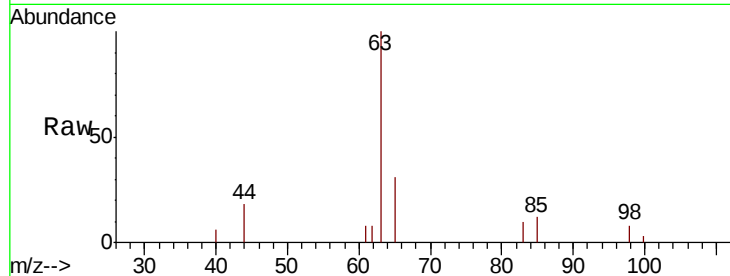




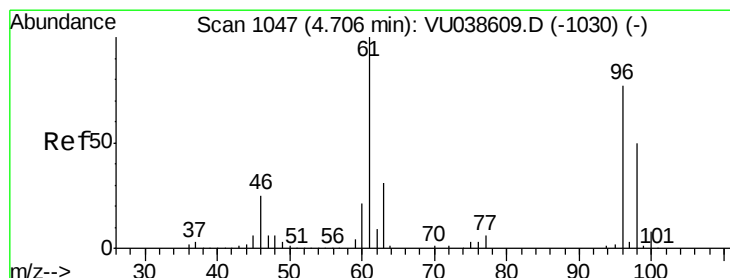
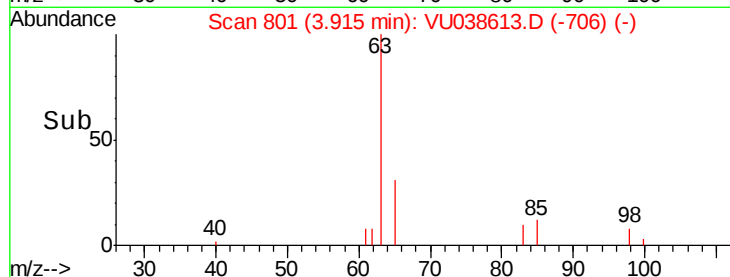
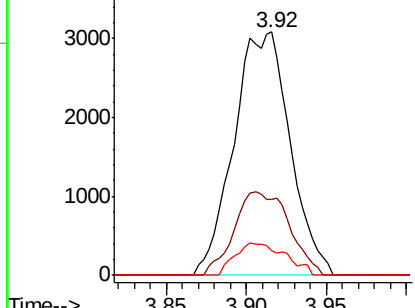
#19
 1,1-Dichloroethane
 Concen: 0.195 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. 0.01 min
 Lab File: VU038613.D
 Acq: 06 Jun 2020 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXD8DL

Tot Ion: 63 Resp: 7424
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.3 41.5
 83 10.4 10.4 19.4#

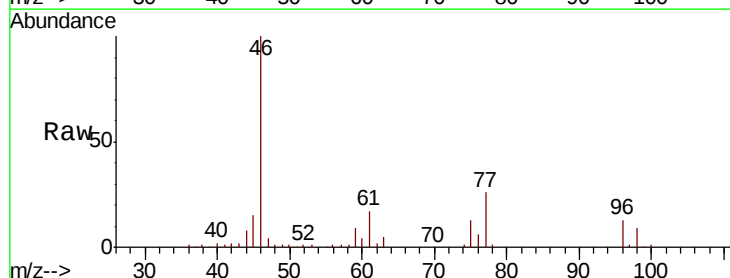


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

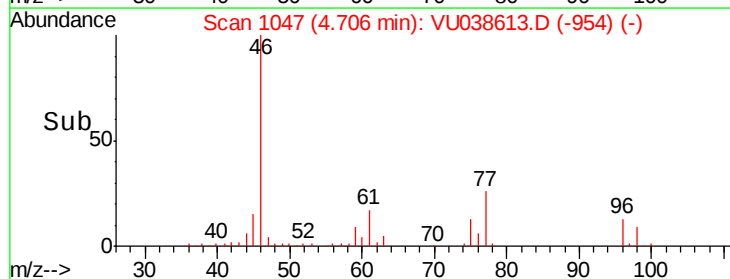
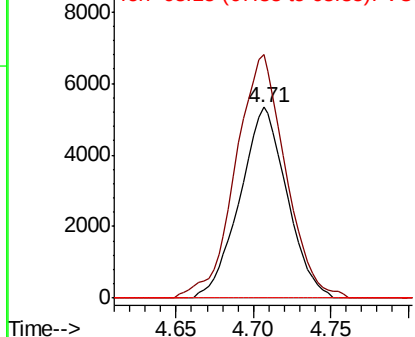


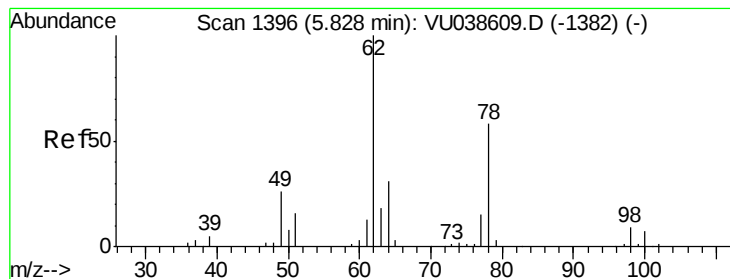
#22
 cis-1,2-Dichloroethene
 Concen: 0.494 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU038613.D
 Acq: 06 Jun 2020 13:49

Tgt Ion: 96 Resp: 11328
 Ion Ratio Lower Upper
 96 100
 61 127.8 94.0 174.6
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0





#27

1,2-Dichloroethane

Concen: 0.133 ug/L

RT: 5.82 min Scan# 1394

Delta R.T. -0.01 min

Lab File: VU038613.D

Acq: 06 Jun 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

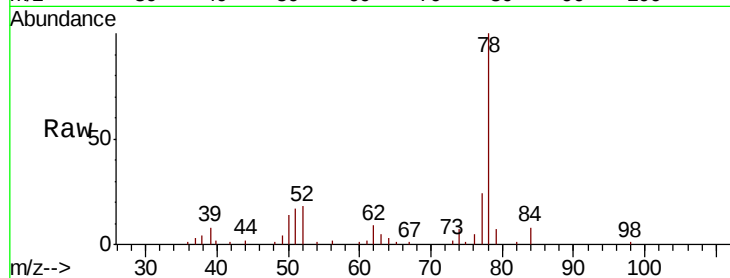
BFXD8DL

Tot Ion: 62 Resp: 3638

Ion Ratio Lower Upper

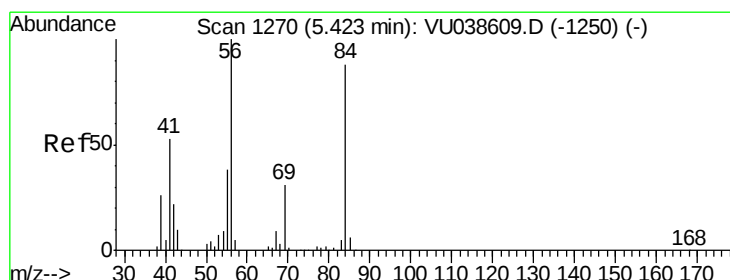
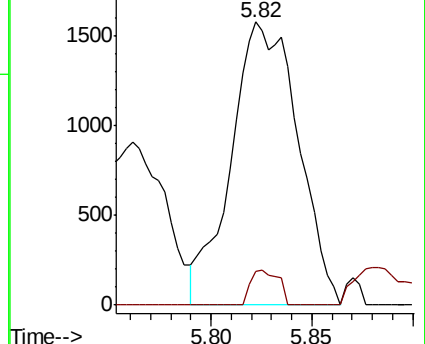
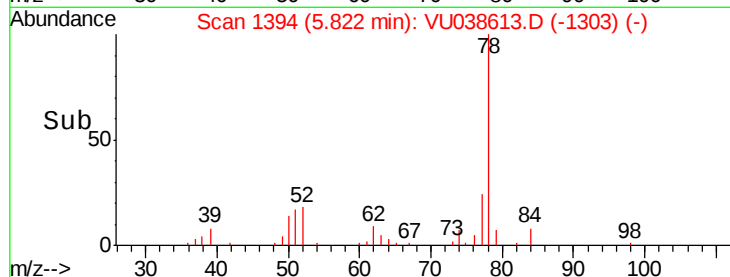
62 100

98 12.1 7.4 11.2#



Abundance Ion 62.00 (61.70 to 62.70): VU038613.D (-1303) (-)

Ion 98.05 (97.75 to 98.75): VU038613.D (-1303) (-)



#30

Cyclohexane

Concen: 0.261 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VU038613.D

Acq: 06 Jun 2020 13:49

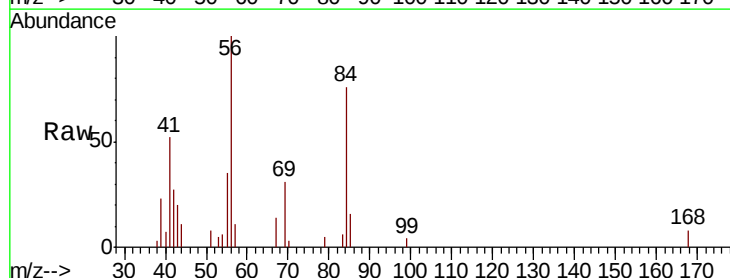
Tgt Ion: 56 Resp: 9124

Ion Ratio Lower Upper

56 100

69 29.5 24.2 36.4

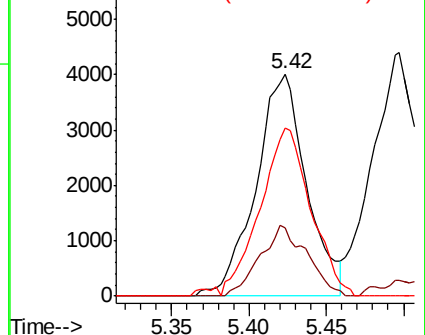
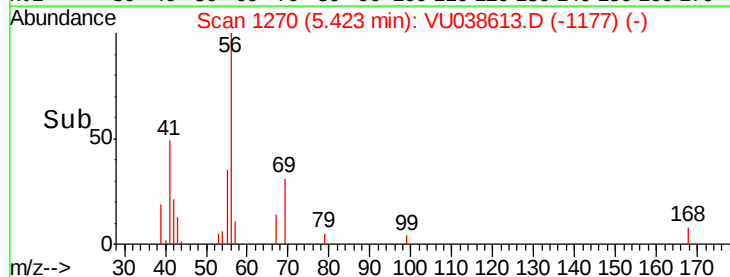
84 75.4 70.8 106.2

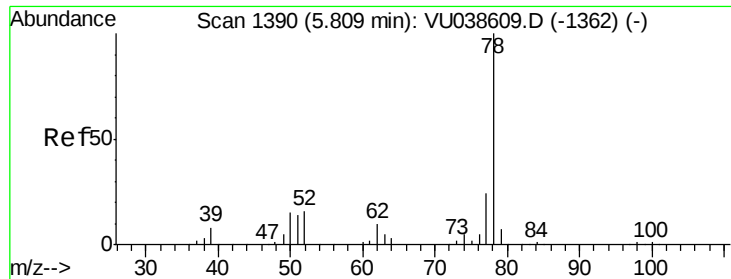


Abundance Ion 56.10 (55.80 to 56.80): VU038613.D (-1177) (-)

Ion 69.15 (68.85 to 69.85): VU038613.D (-1177) (-)

Ion 84.15 (83.85 to 84.85): VU038613.D (-1177) (-)





#33

Benzene

Concen: 0.740 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VU038613.D

Acq: 06 Jun 2020 13:49

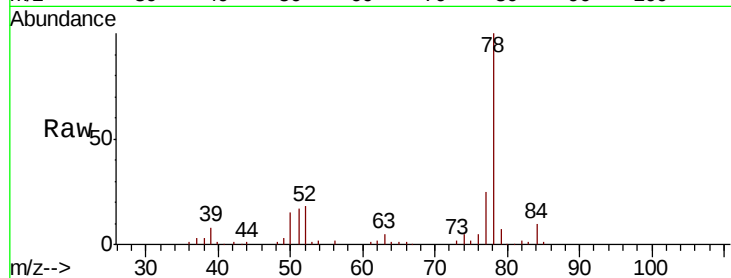
Instrument :

MSVOA_U

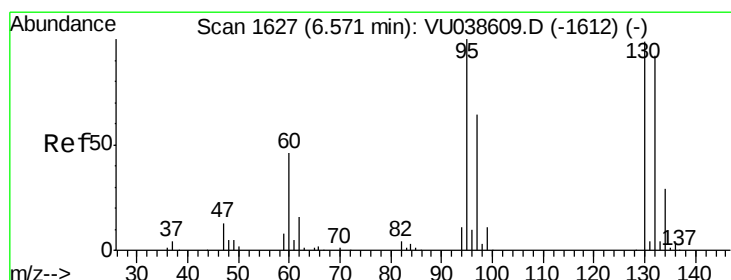
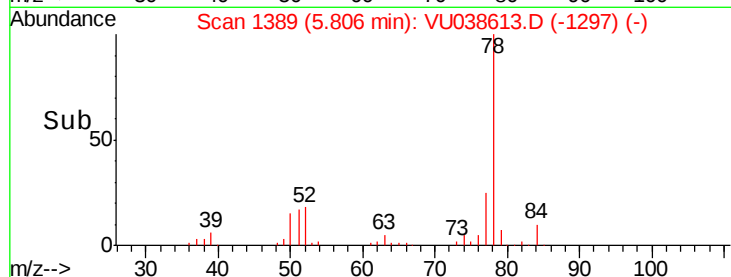
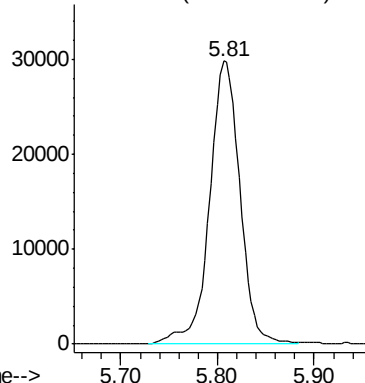
ClientSampleId :

BFXD8DL

Tgt Ion: 78 Resp: 65133



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.142 ug/L

RT: 6.57 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VU038613.D

Acq: 06 Jun 2020 13:49

Tgt Ion: 95 Resp: 3234

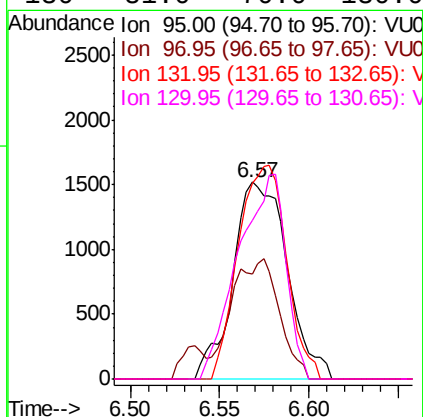
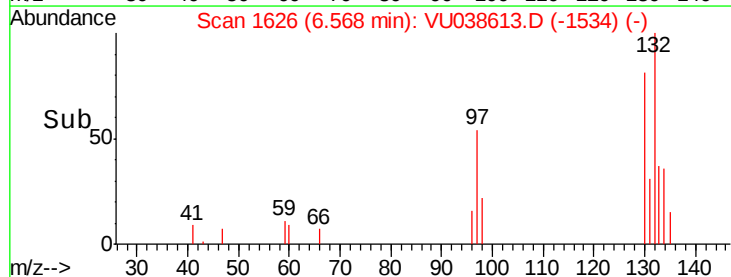
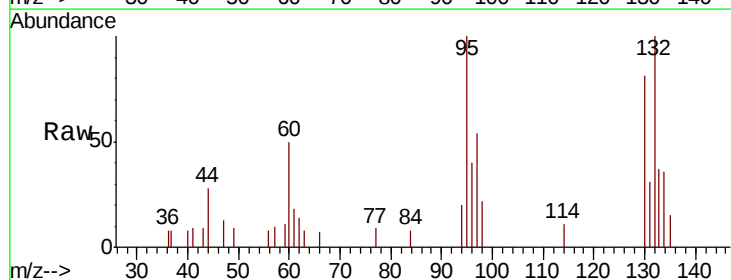
Ion	Ratio	Lower	Upper
95	100		
97	53.6	46.8	87.0
132	99.8	66.1	122.7
130	81.0	70.0	130.0

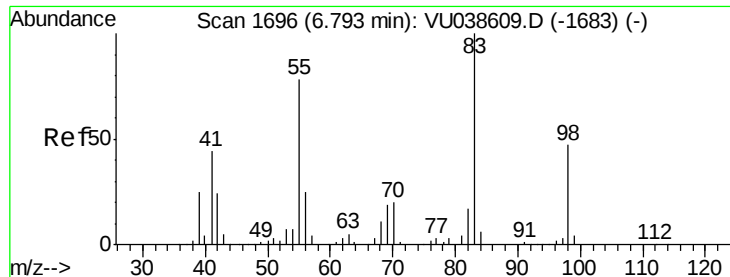
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

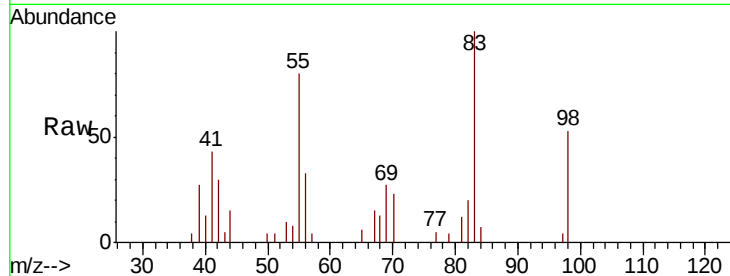




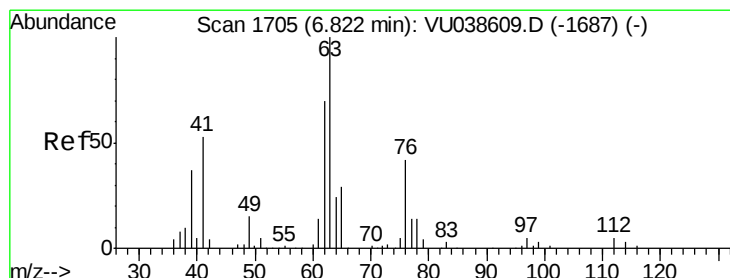
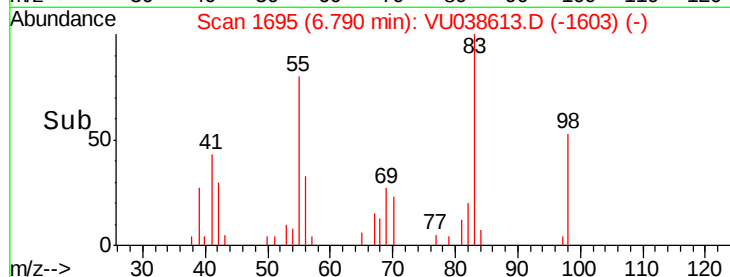
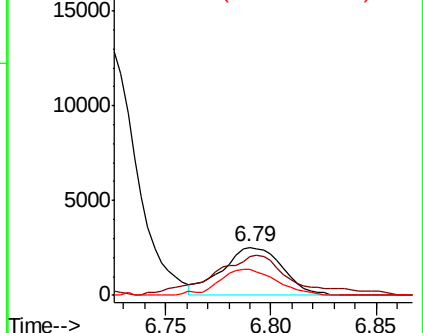
#35
Methvlcvclohexane
Concen: 0.143 ug/L
RT: 6.79 min Scan# 1695
Delta R.T. -0.00 min
Lab File: VU038613.D
Acq: 06 Jun 2020 13:49

Instrument :
MSVOA_U
ClientSampleId :
BFXD8DL

Tot Ion: 83 Resp: 5048
Ion Ratio Lower Upper
83 100
55 109.0 63.4 95.2#
98 51.3 39.0 58.4

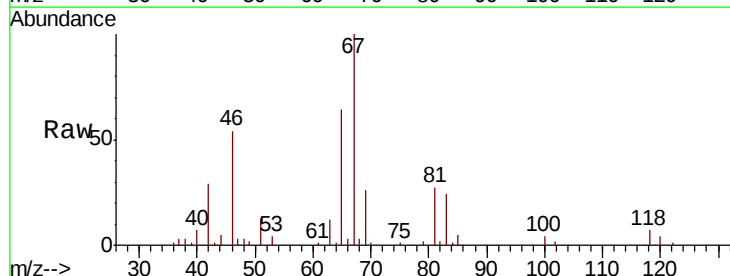


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

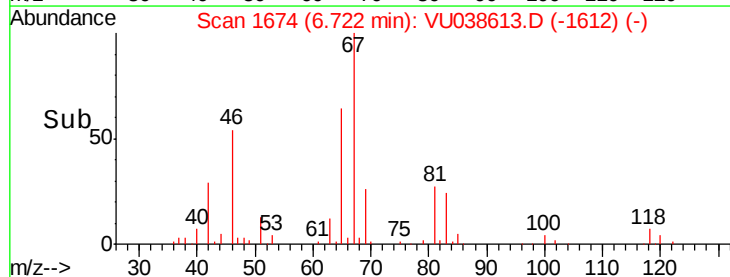
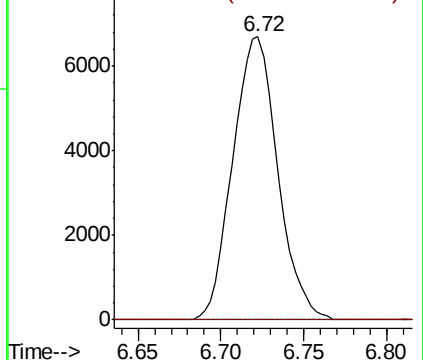


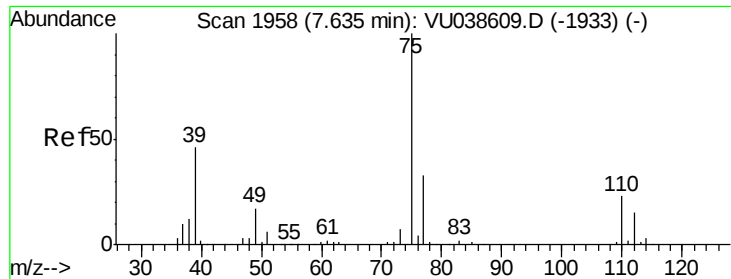
#37
1,2-Dichloropropane
Concen: 0.569 ug/L
RT: 6.72 min Scan# 1674
Delta R.T. -0.10 min
Lab File: VU038613.D
Acq: 06 Jun 2020 13:49

Tgt Ion: 63 Resp: 12601
Ion Ratio Lower Upper
63 100
112 0.0 3.7 5.5#



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

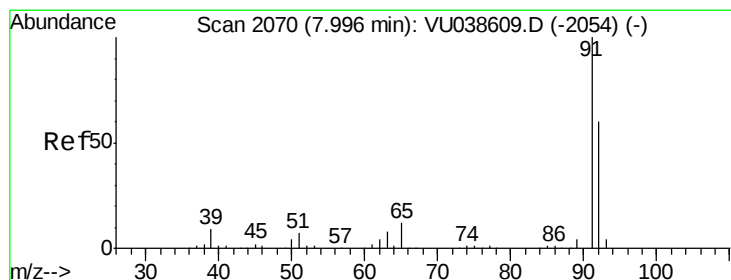
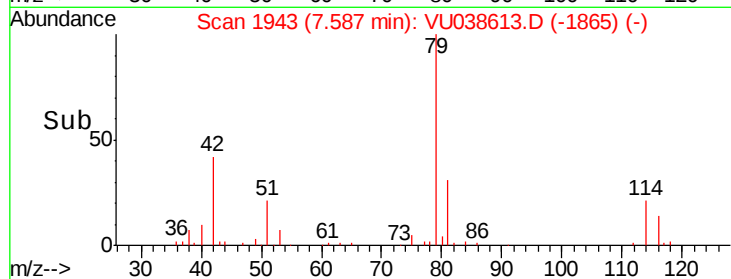
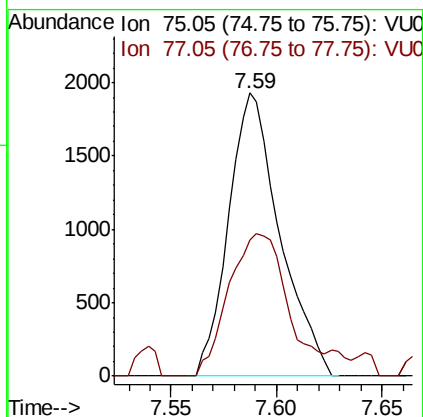
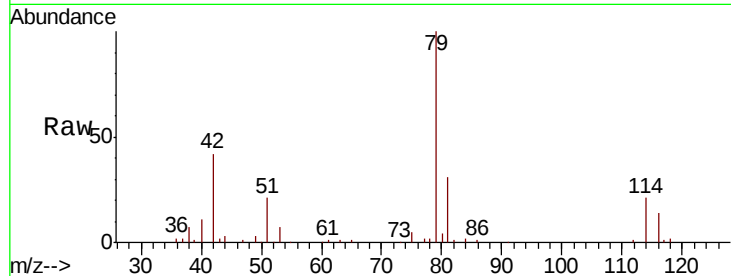




#39
 cis-1,3-Dichloropropene
 Concen: 0.099 ug/L
 RT: 7.59 min Scan# 1943
 Delta R.T. -0.05 min
 Lab File: VU038613.D
 Acq: 06 Jun 2020 13:49

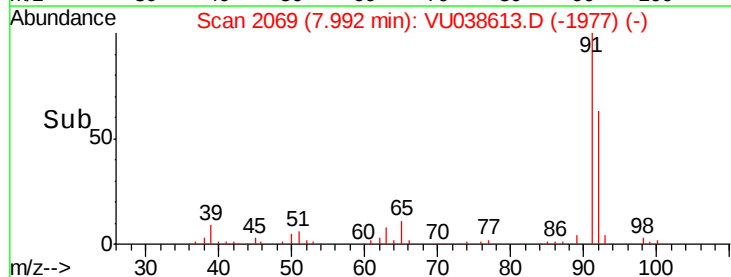
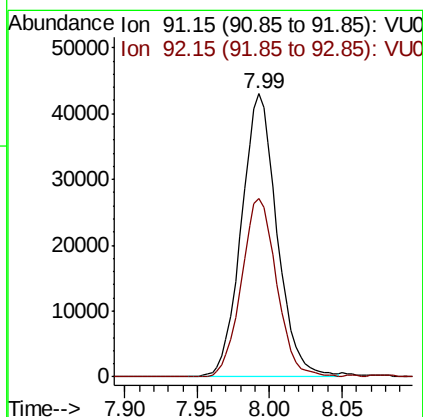
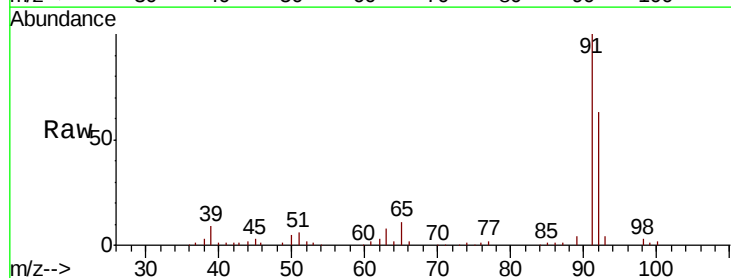
Instrument :
 MSVOA_U
 ClientSampleId :
 BFXD8DL

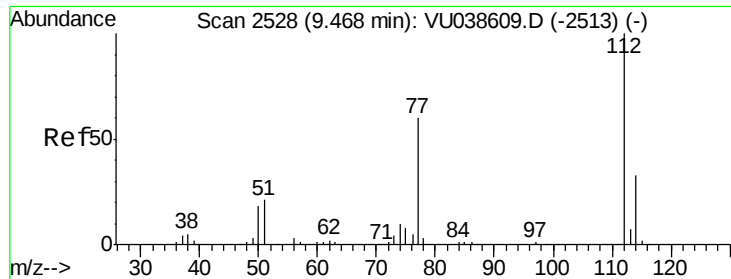
Tot Ion: 75 Resp: 3256
 Ion Ratio Lower Upper
 75 100
 77 48.0 21.9 40.7#



#42
 Toluene
 Concen: 0.796 ug/L
 RT: 7.99 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: VU038613.D
 Acq: 06 Jun 2020 13:49

Tgt Ion: 91 Resp: 73456
 Ion Ratio Lower Upper
 91 100
 92 62.9 43.0 79.8

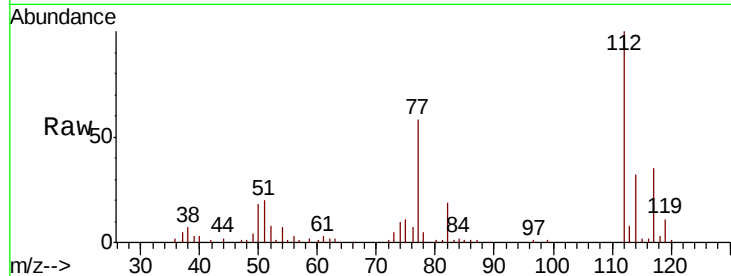




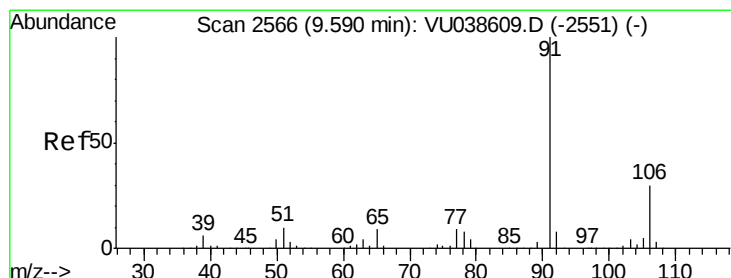
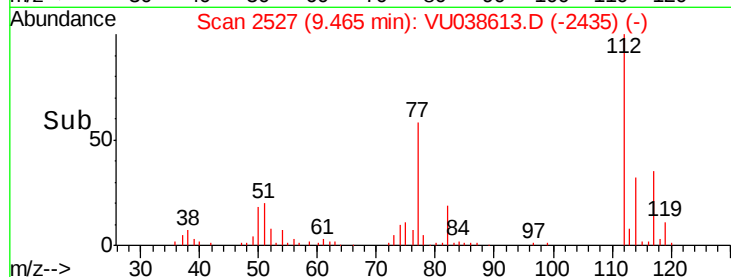
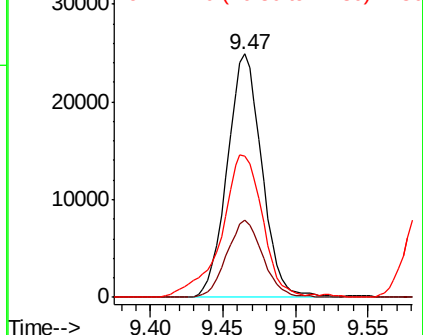
#51
Chlorobenzene
Concen: 0.693 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038613.D
Acq: 06 Jun 2020 13:49

Instrument :
MSVOA_U
ClientSampleId :
BFXD8DL

Tot Ion:112 Resp: 41226
Ion Ratio Lower Upper
112 100
114 31.5 22.4 41.6
77 58.2 47.1 70.7

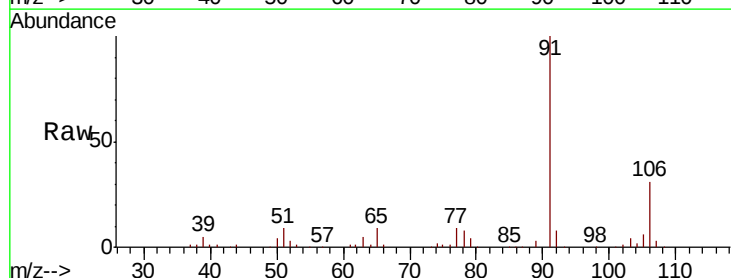


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

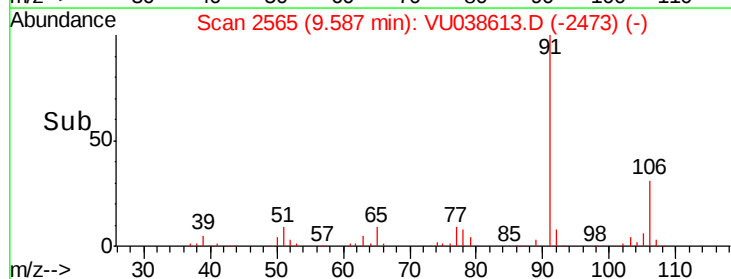
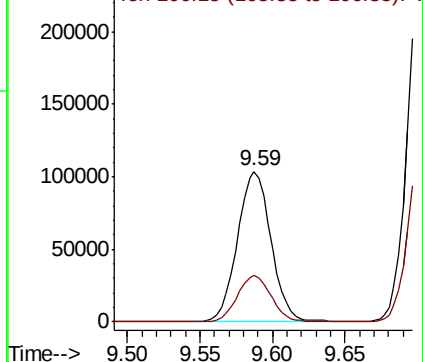


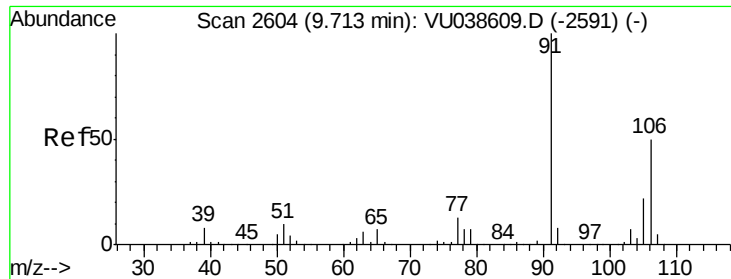
#52
Ethylbenzene
Concen: 1.627 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU038613.D
Acq: 06 Jun 2020 13:49

Tgt Ion: 91 Resp: 167128
Ion Ratio Lower Upper
91 100
106 30.8 21.7 40.3



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

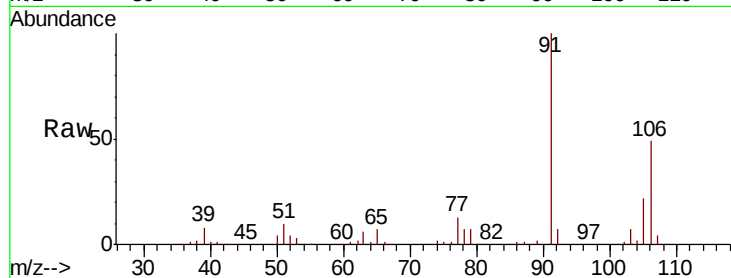




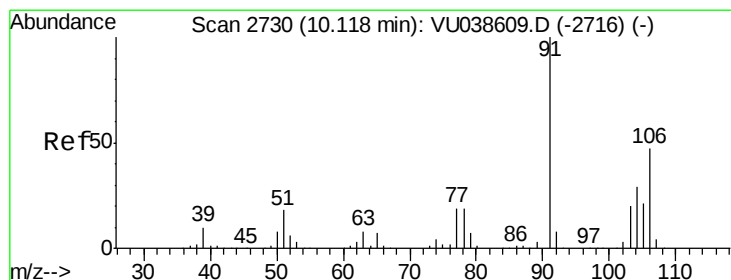
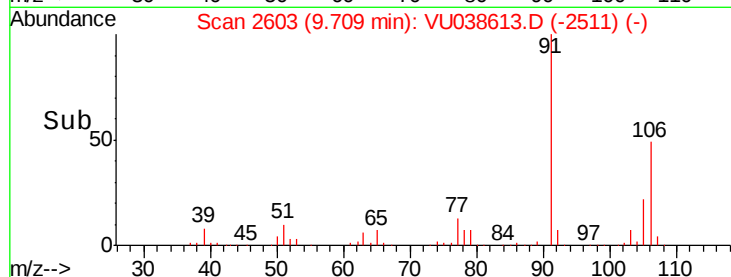
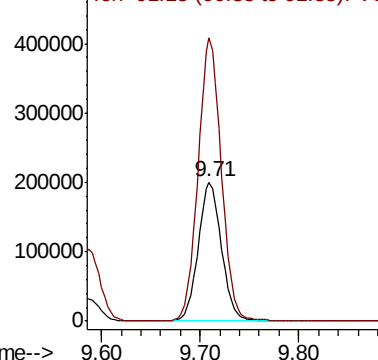
#53
m,p-Xylene
Concen: 8.410 ug/L
RT: 9.71 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VU038613.D
Acq: 06 Jun 2020 13:49

Instrument :
MSVOA_U
ClientSampleId :
BFXD8DL

Tot Ion:106 Resp: 332182
Ion Ratio Lower Upper
106 100
91 203.7 138.1 256.5

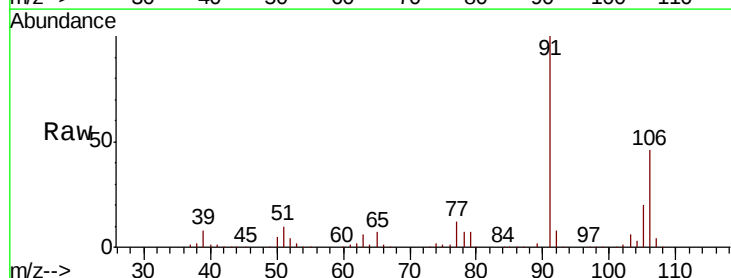


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

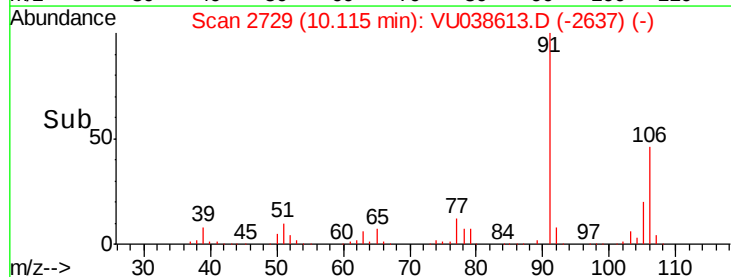
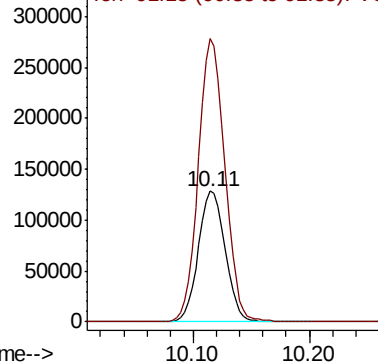


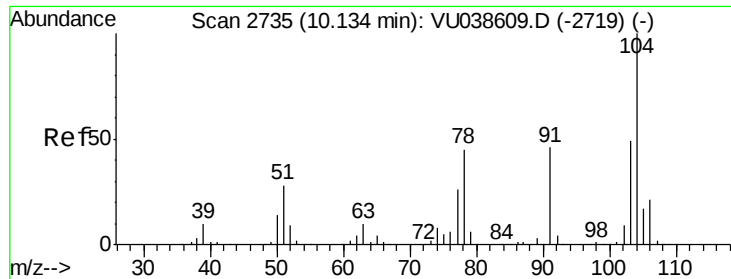
#54
o-Xylene
Concen: 5.449 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU038613.D
Acq: 06 Jun 2020 13:49

Tgt Ion:106 Resp: 206618
Ion Ratio Lower Upper
106 100
91 216.1 150.6 279.8



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

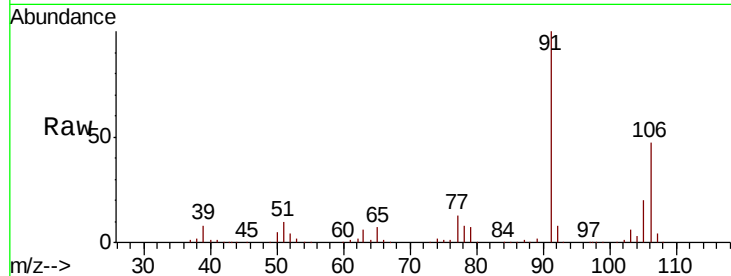




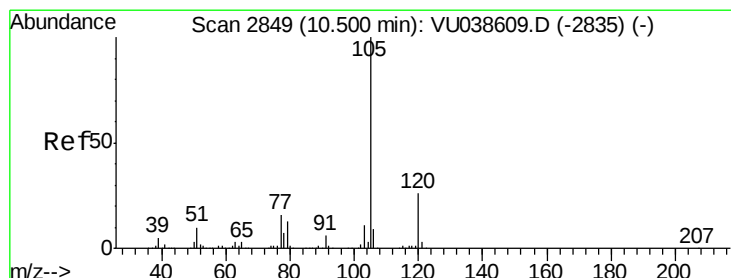
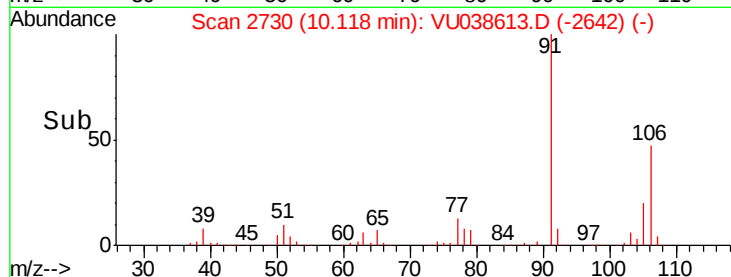
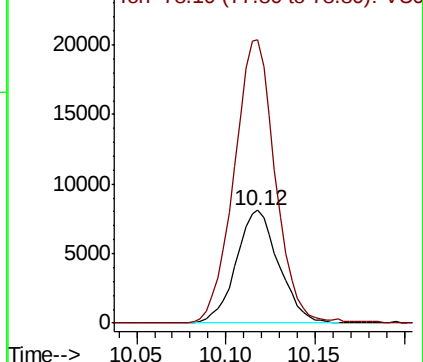
#55
Stvrene
Concen: 0.210 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.02 min
Lab File: VU038613.D
Acq: 06 Jun 2020 13:49

Instrument :
MSVOA_U
ClientSampled :
BFXD8DL

Tot Ion:104 Resp: 13509
Ion Ratio Lower Upper
104 100
78 251.0 31.9 59.3#

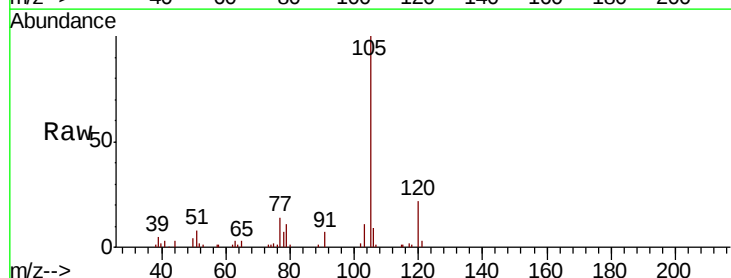


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0

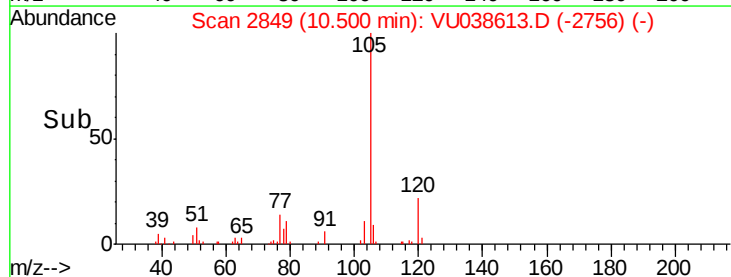
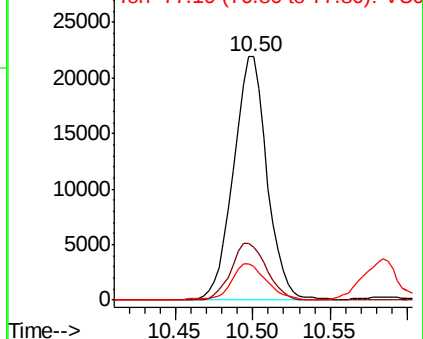


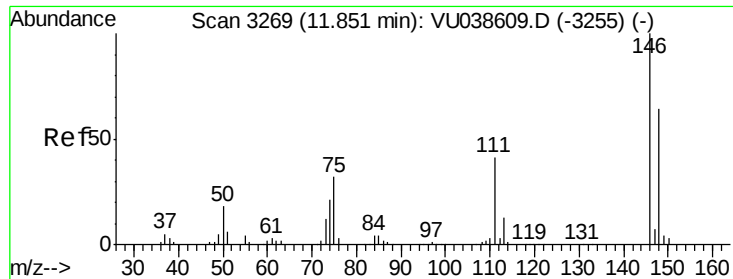
#56
Isopropylbenzene
Concen: 0.331 ug/L
RT: 10.50 min Scan# 2849
Delta R.T. 0.00 min
Lab File: VU038613.D
Acq: 06 Jun 2020 13:49

Tgt Ion:105 Resp: 33029
Ion Ratio Lower Upper
105 100
120 24.6 20.7 31.1
77 15.6 12.5 18.7



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): VU0





#63

1,4-Dichlorobenzene

Concen: 0.119 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038613.D

Acq: 06 Jun 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

BFXD8DL

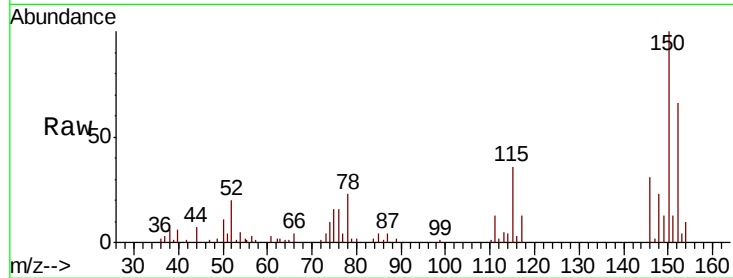
Tot Ion:146 Resp: 5775

Ion Ratio Lower Upper

146 100

111 42.7 27.6 51.2

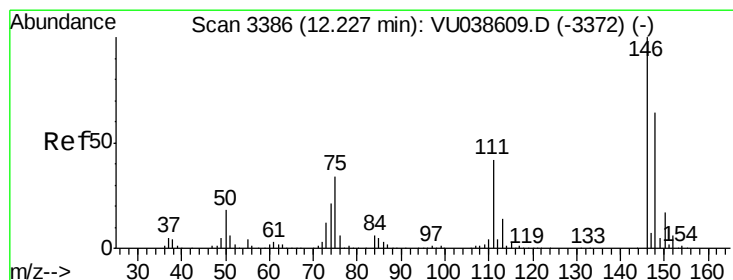
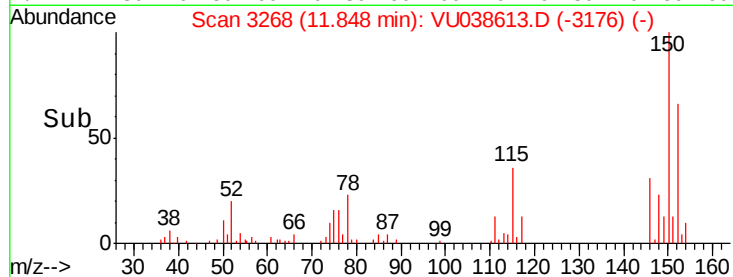
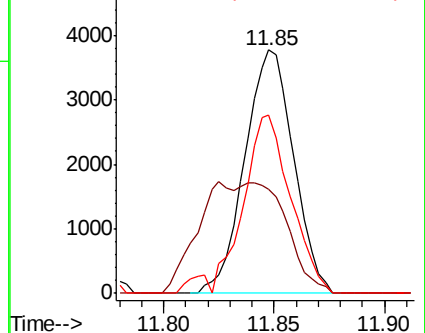
148 73.2 44.8 83.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 1.350 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038613.D

Acq: 06 Jun 2020 13:49

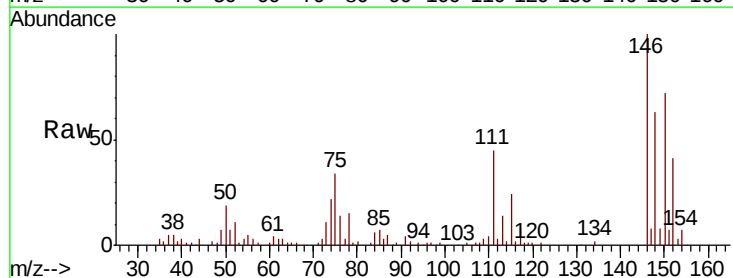
Tgt Ion:146 Resp: 61464

Ion Ratio Lower Upper

146 100

111 44.6 35.1 52.7

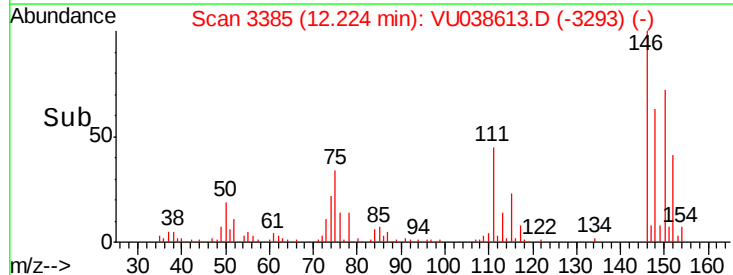
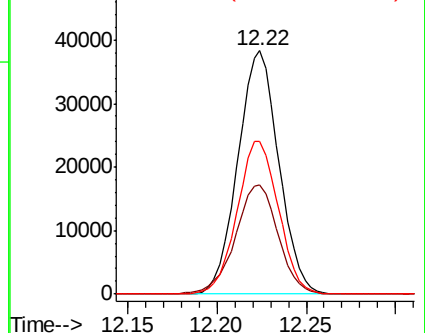
148 62.9 50.9 76.3

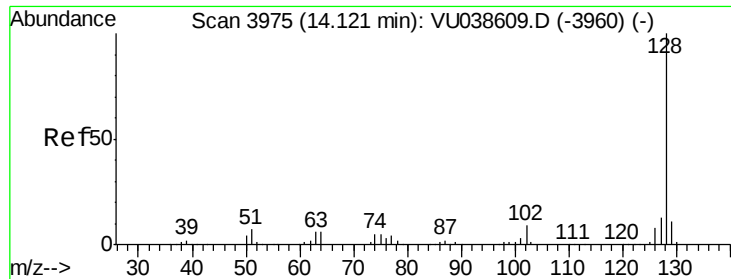


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#69

Naphthalene

Concen: 0.326 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VU038613.D

Acq: 06 Jun 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

BFXD8DL

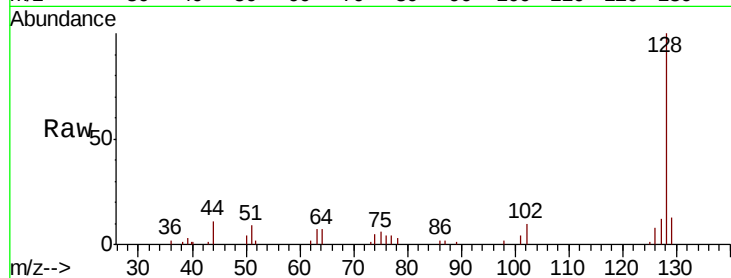
Tot Ion:128 Resp: 21498

Ion Ratio Lower Upper

128 100

129 13.3 8.9 13.3

127 13.9 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

