

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092120\
 Data File : VU040239.D
 Acq On : 21 Sep 2020 17:22
 Operator : SY/MD
 Sample : L4046-12DL 40X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG0Q0DL

Quant Time: Sep 22 07:16:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 22 07:07:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	116725	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	113025	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	56412	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	27998	4.39	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.80%
7) Chloroethane-d5	1.92	69	27414	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.20%
11) 1,1-Dichloroethene-d2	2.58	63	48399	2.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.20%#
20) 2-Butanone-d5	4.66	46	162848	63.88	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.76%
24) Chloroform-d	5.08	84	76717	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.00%
26) 1,2-Dichloroethane-d4	5.72	65	50122	5.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.00%
32) Benzene-d6	5.75	84	136988	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.80%
36) 1,2-Dichloropropane-d6	6.70	67	48770	5.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.20%
41) Toluene-d8	7.91	98	107141	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
43) trans-1,3-Dichloropropene-	8.19	79	20082	5.03	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.60%
46) 2-Hexanone-d5	8.64	63	120180	63.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	127.00%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	46515	6.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	123.60%#
64) 1,2-Dichlorobenzene-d4	12.19	152	53101	5.82	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	116.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
15) Methyl Acetate	3.20	43	881	0.149	ug/L #	54
16) Methylene chloride	3.06	84	1975	0.167	ug/L	76
25) Chloroform	5.10	83	4168	0.203	ug/L	92
27) 1,2-Dichloroethane	5.79	62	6838	0.456	ug/L #	78
33) Benzene	5.79	78	644029	15.928	ug/L	100
35) Methylcyclohexane	6.77	83	1393	0.084	ug/L #	72
37) 1,2-Dichloropropane	6.70	63	5763	0.526	ug/L #	91
39) cis-1,3-Dichloropropene	7.57	75	1794	0.111	ug/L	92
42) Toluene	7.97	91	3382	0.081	ug/L	99
44) trans-1,3-Dichloropropene	8.19	75	1097	0.073	ug/L #	77
48) 2-Hexanone	8.64	43	17535	2.676	ug/L #	73
51) Chlorobenzene	9.45	112	49890	1.930	ug/L	94
52) Ethylbenzene	9.57	91	80654	1.705	ug/L	100
53) m,p-Xylene	9.69	106	25662	1.523	ug/L	88
54) o-Xylene	10.10	106	7805	0.486	ug/L	84
56) Isopropylbenzene	10.48	105	43628	0.997	ug/L	97
59) 1,2,3-Trichloropropane	11.81	75	10726	1.322	ug/L	95

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 22 07:07:10 2020
Response via : Initial Calibration

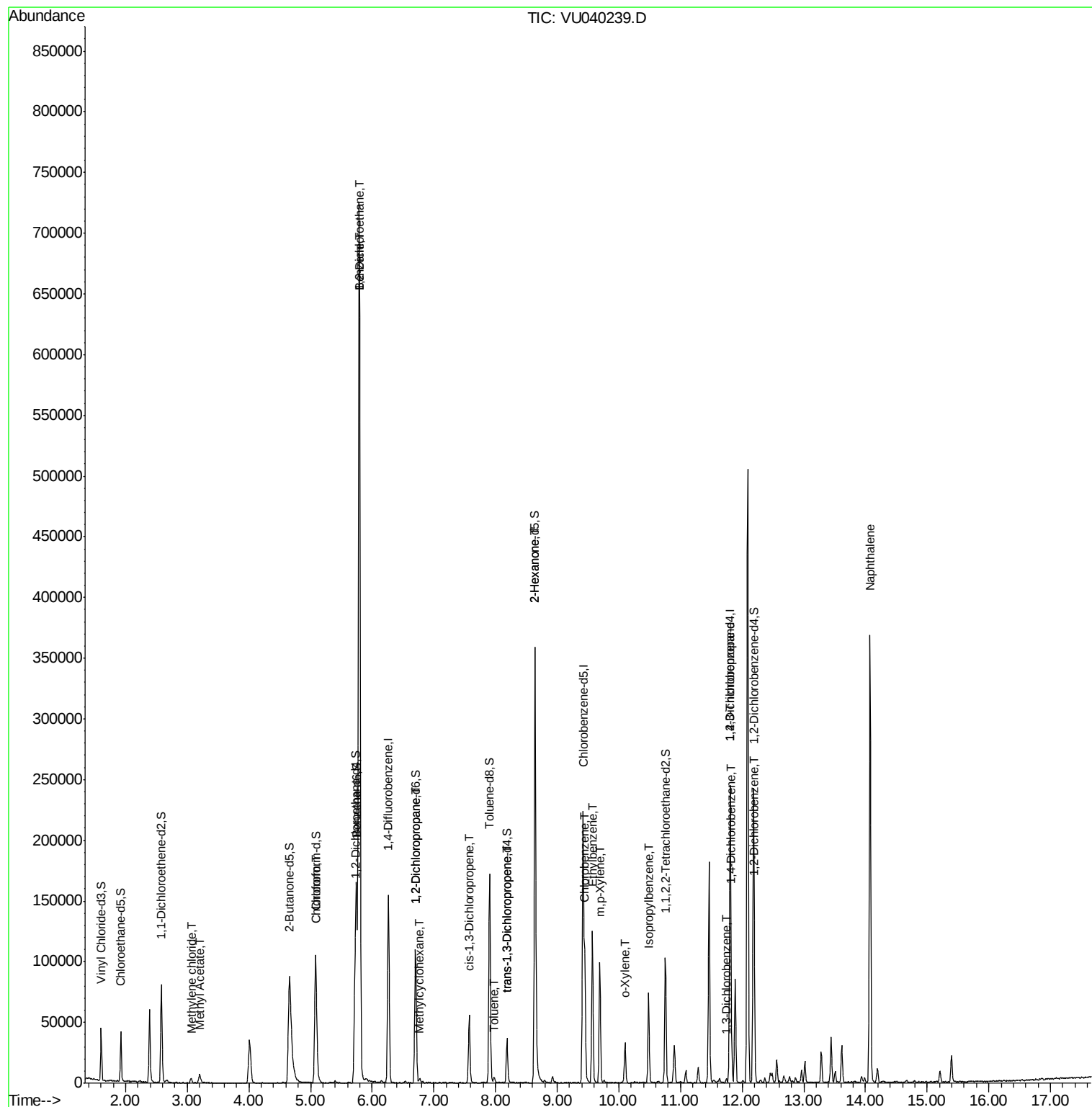
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.74	146	1092	0.053	ug/L	87
63) 1,4-Dichlorobenzene	11.83	146	5843	0.280	ug/L	88
65) 1,2-Dichlorobenzene	12.21	146	3553	0.178	ug/L	93
69) Naphthalene	14.08	128	266332	10.232	ug/L	99

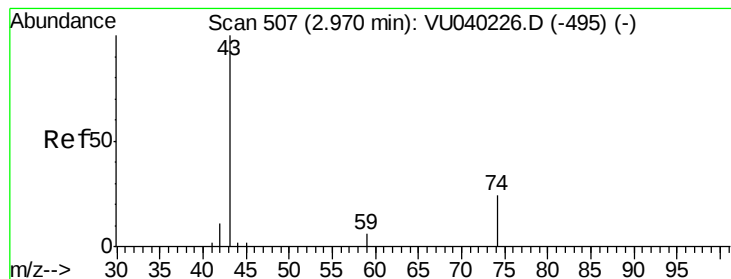
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#15

Methyl Acetate

Concen: 0.149 ug/L

RT: 3.20 min Scan# 578

Delta R.T. 0.23 min

Lab File: VU040239.D

Acq: 21 Sep 2020 17:22

Instrument :

MSVOA_U

ClientSampleId :

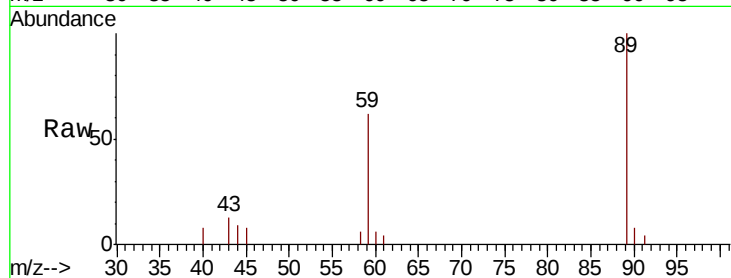
BG0Q0DL

Tot Ion: 43 Resp: 881

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.0#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

3.20

400

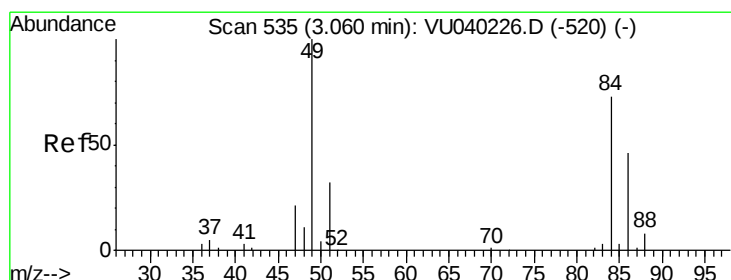
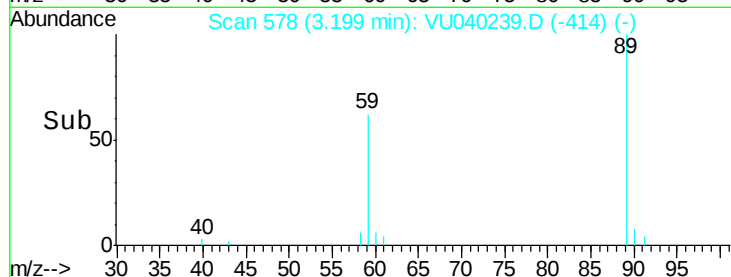
300

200

100

0

Time-->



#16

Methylene chloride

Concen: 0.167 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU040239.D

Acq: 21 Sep 2020 17:22

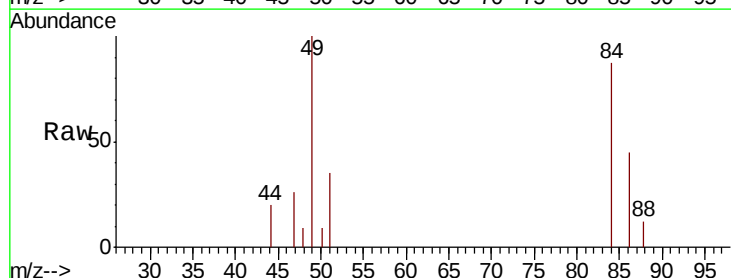
Tgt Ion: 84 Resp: 1975

Ion Ratio Lower Upper

84 100

86 51.6 45.2 84.0

49 114.9 104.0 193.2



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

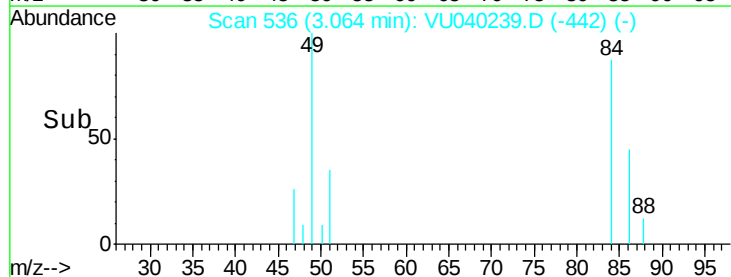
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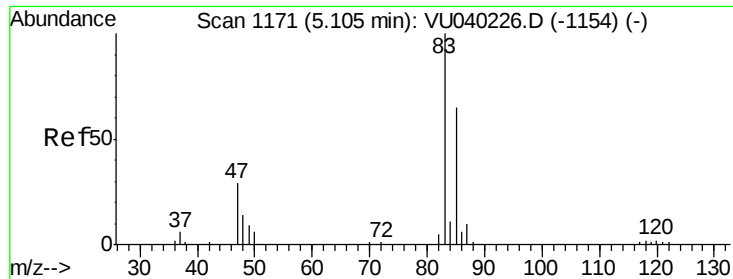
1000

500

0

Time-->

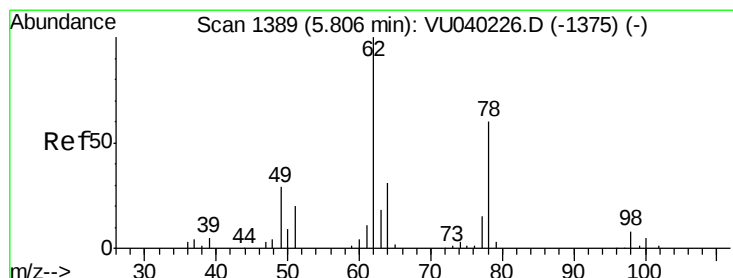
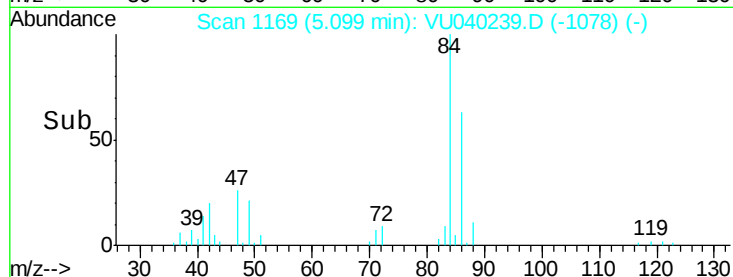
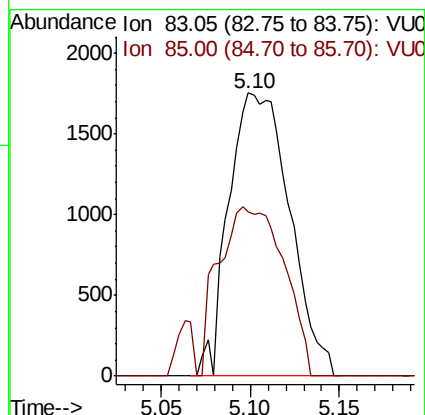
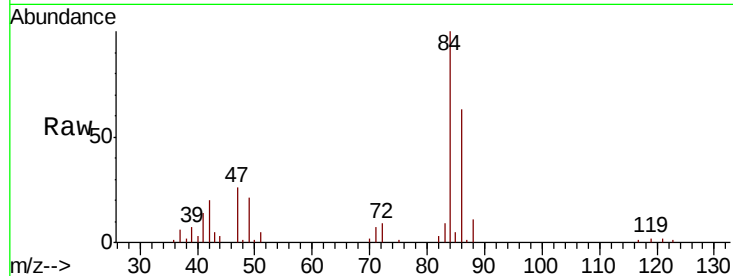




#25
Chloroform
Concen: 0.203 ug/L
RT: 5.10 min Scan# 1169
Delta R.T. -0.01 min
Lab File: VU040239.D
Acq: 21 Sep 2020 17:22

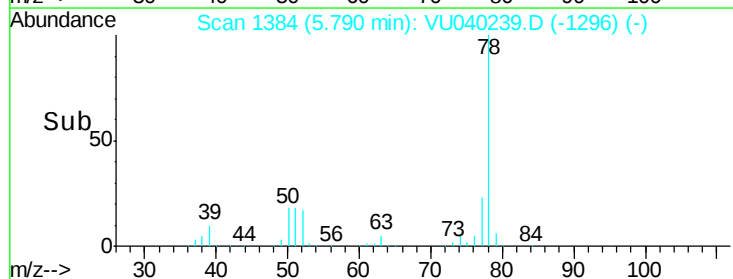
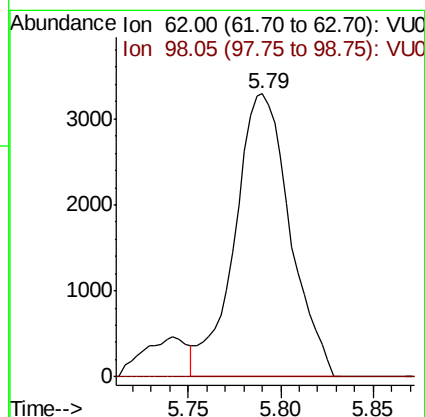
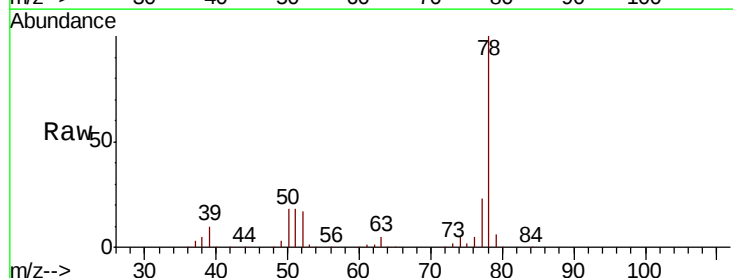
Instrument :
MSVOA_U
ClientSampleId :
BG0Q0DL

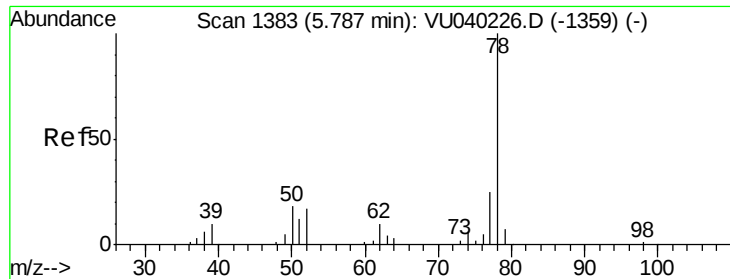
Tot Ion: 83 Resp: 4168
Ion Ratio Lower Upper
83 100
85 58.1 45.3 84.1



#27
1,2-Dichloroethane
Concen: 0.456 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. -0.02 min
Lab File: VU040239.D
Acq: 21 Sep 2020 17:22

Tgt Ion: 62 Resp: 6838
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#

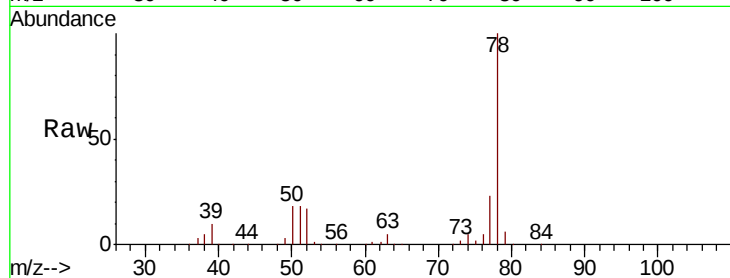




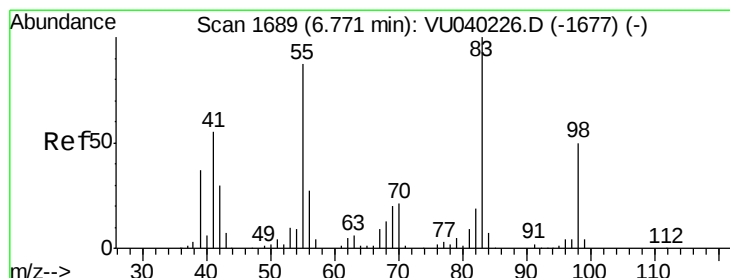
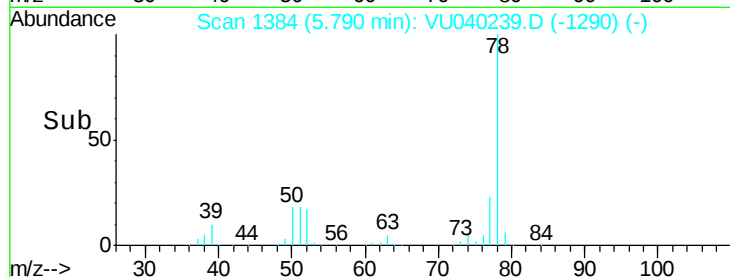
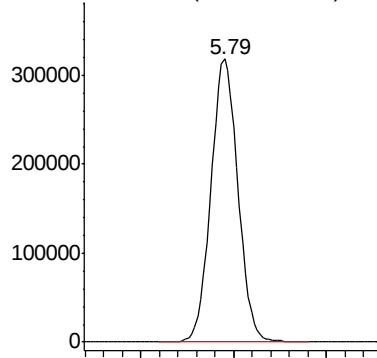
#33
Benzene
Concen: 15.928 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040239.D
Acq: 21 Sep 2020 17:22

Instrument :
MSVOA_U
ClientSampleId :
BG0Q0DL

Tgt Ion: 78 Resp: 644029

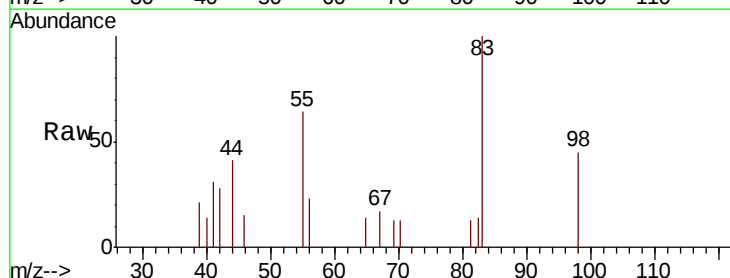


Abundance Ion 78.10 (77.80 to 78.80): VU0



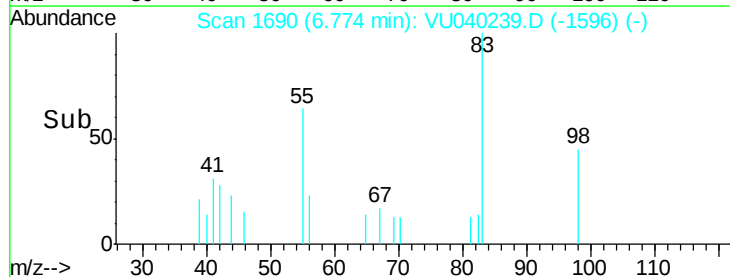
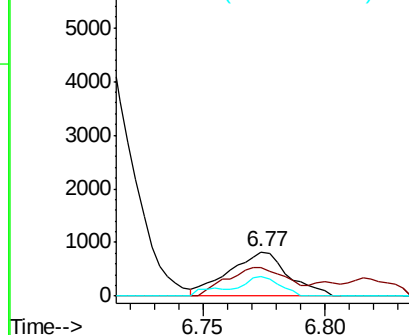
#35
Methylcyclohexane
Concen: 0.084 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VU040239.D
Acq: 21 Sep 2020 17:22

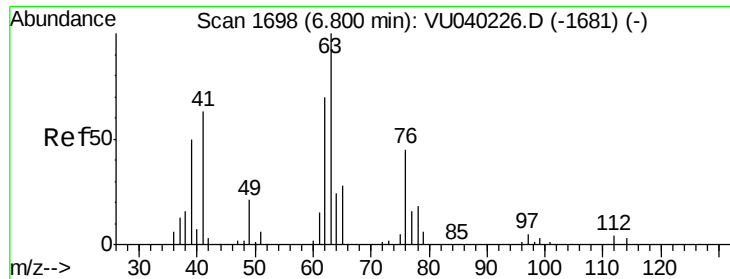
Tgt Ion: 83 Resp: 1393
Ion Ratio Lower Upper
83 100
55 64.3 70.5 105.7#
98 26.2 37.8 56.6#



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

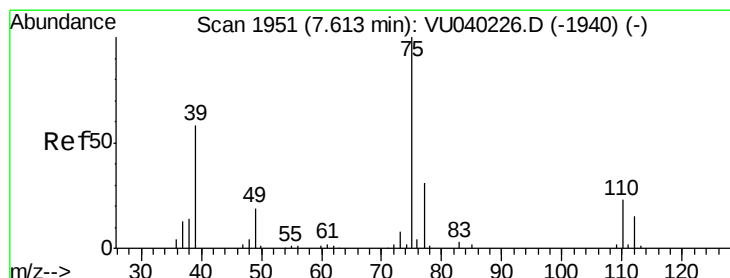
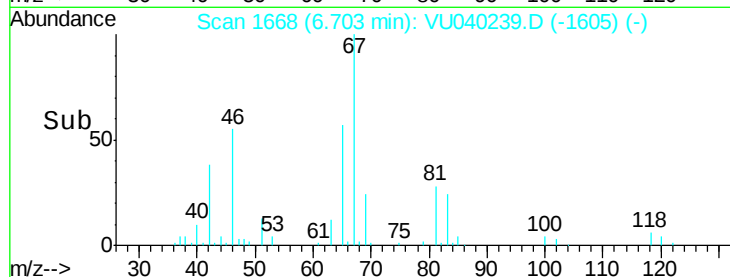
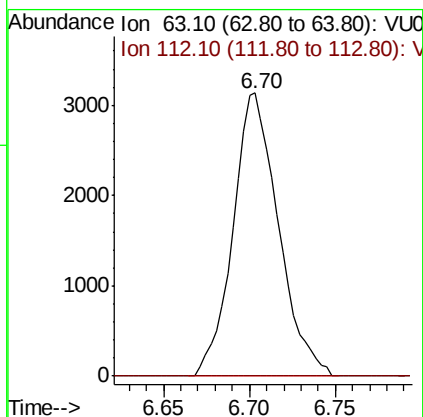
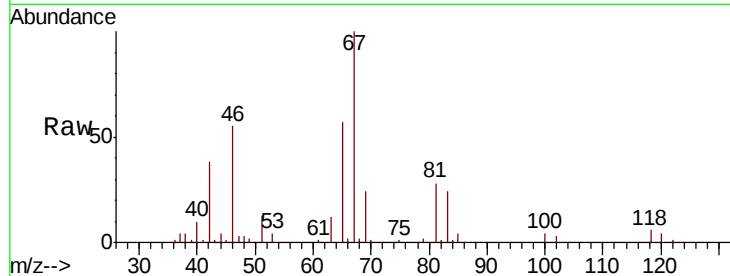




#37
 1,2-Dichloropropane
 Concen: 0.526 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040239.D
 Acq: 21 Sep 2020 17:22

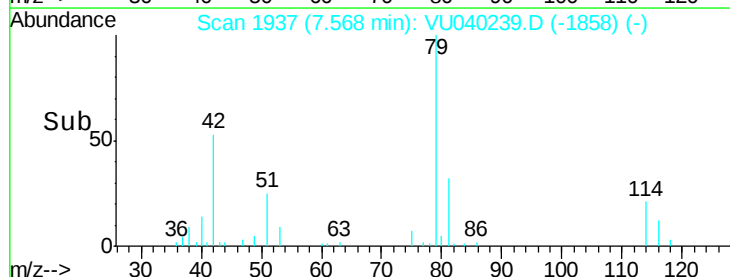
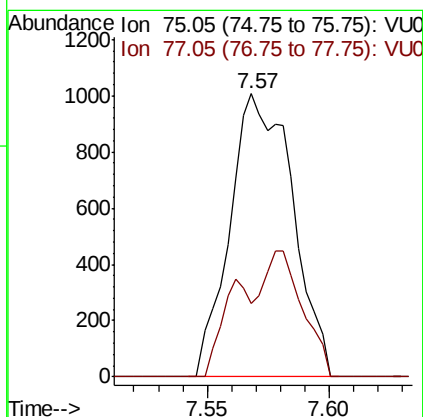
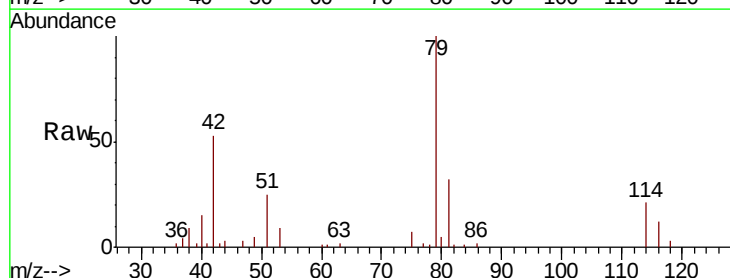
Instrument :
 MSVOA_U
 ClientSampleId :
 BG0Q0DL

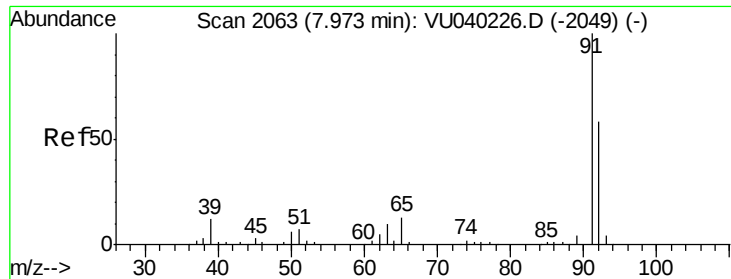
Tot Ion: 63 Resp: 5763
 Ion Ratio Lower Upper
 63 100
 112 0.9 3.2 4.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.111 ug/L
 RT: 7.57 min Scan# 1937
 Delta R.T. -0.05 min
 Lab File: VU040239.D
 Acq: 21 Sep 2020 17:22

Tgt Ion: 75 Resp: 1794
 Ion Ratio Lower Upper
 75 100
 77 25.9 21.1 39.3





#42

Toluene

Concen: 0.081 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU040239.D

Acq: 21 Sep 2020 17:22

Instrument :

MSVOA_U

ClientSampleId :

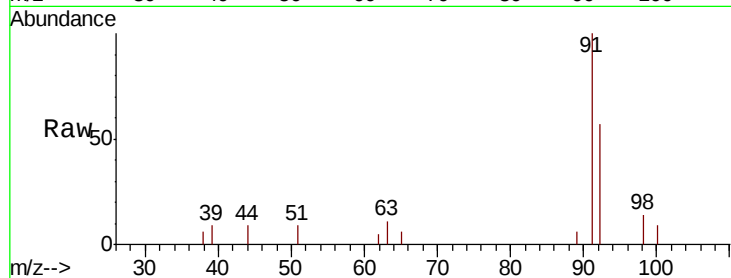
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Tot Ion: 91 Resp: 3382

Ion Ratio Lower Upper

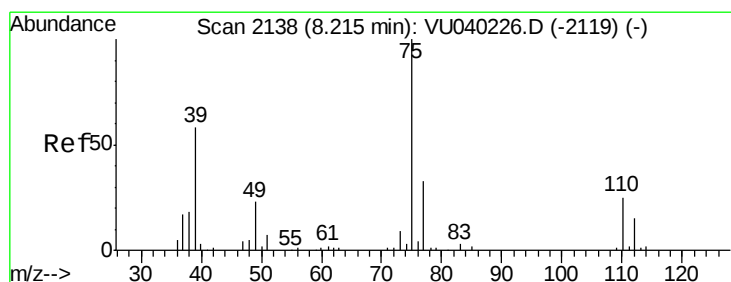
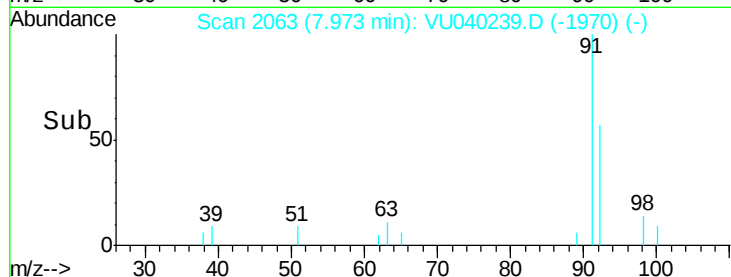
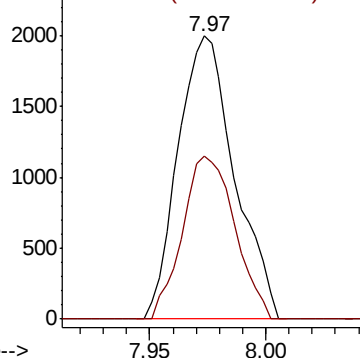
91 100

92 57.5 40.7 75.5



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: 0.073 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU040239.D

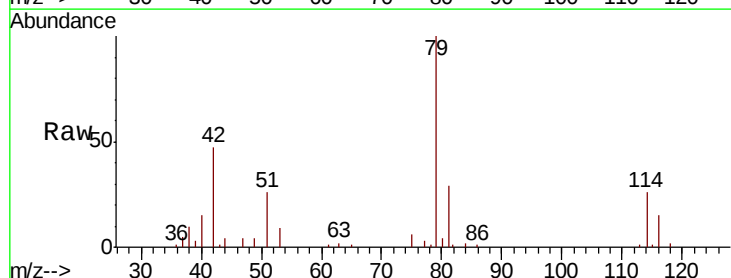
Acq: 21 Sep 2020 17:22

Tgt Ion: 75 Resp: 1097

Ion Ratio Lower Upper

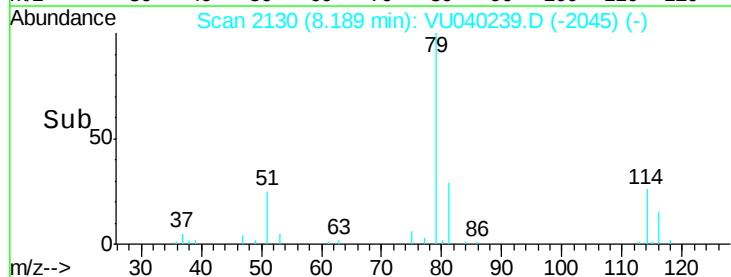
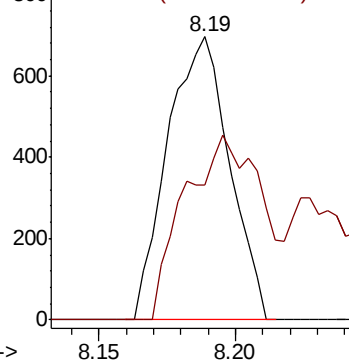
75 100

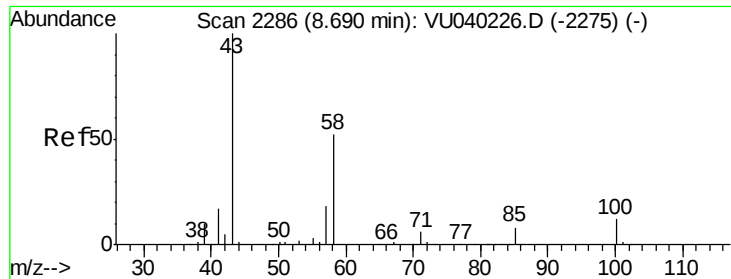
77 47.6 23.9 44.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

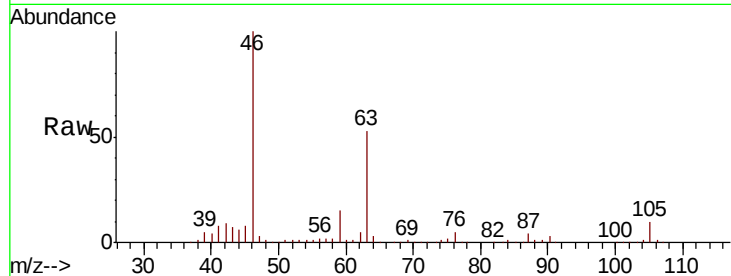




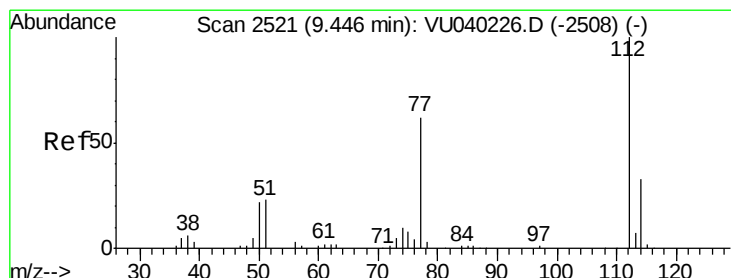
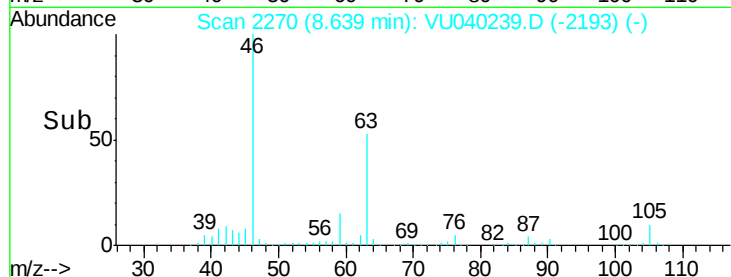
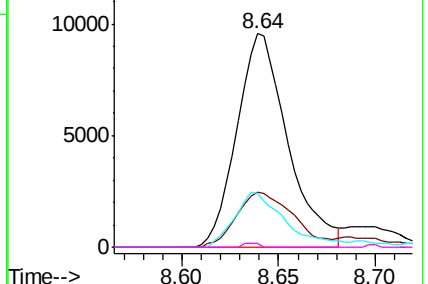
#48
2-Hexanone
Concen: 2.676 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU040239.D
Acq: 21 Sep 2020 17:22

Instrument :
MSVOA_U
ClientSampleId :
BG0Q0DL

Tot Ion:	43	Resp:	17535
Ion	Ratio	Lower	Upper
43	100		
58	28.6	39.6	59.4#
57	25.5	14.3	21.5#
100	0.6	8.0	12.0#

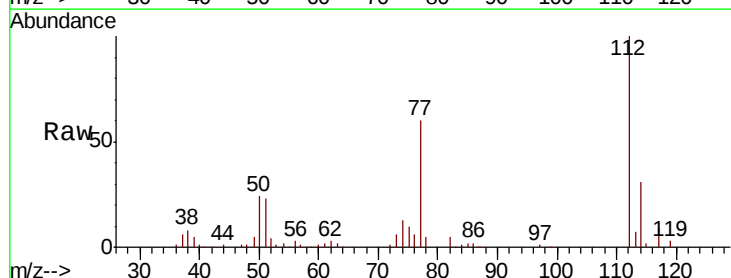


Abundance Ion 43.05 (42.75 to 43.75): VU040239.D (-2193) (-)
Ion 58.05 (57.75 to 58.75): VU040239.D (-2193) (-)
Ion 57.20 (56.90 to 57.90): VU040239.D (-2193) (-)
Ion 100.15 (99.85 to 100.85): VU040239.D (-2193) (-)

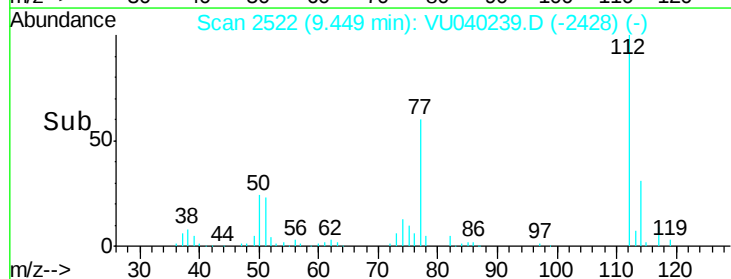
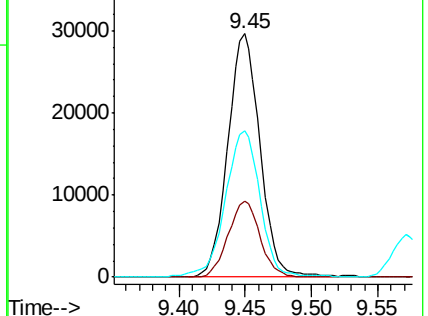


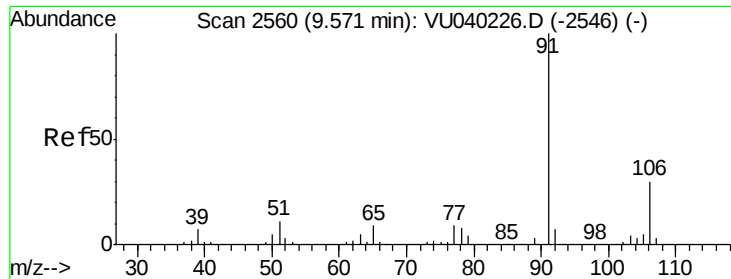
#51
Chlorobenzene
Concen: 1.930 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040239.D
Acq: 21 Sep 2020 17:22

Tgt Ion:	112	Resp:	49890
Ion	Ratio	Lower	Upper
112	100		
114	31.1	22.7	42.3
77	60.3	53.2	79.8



Abundance Ion 112.10 (111.80 to 112.80): VU040239.D (-2428) (-)
Ion 114.05 (113.75 to 114.75): VU040239.D (-2428) (-)
Ion 77.10 (76.80 to 77.80): VU040239.D (-2428) (-)





#52

Ethylbenzene

Concen: 1.705 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040239.D

Acq: 21 Sep 2020 17:22

Instrument :

MSVOA_U

ClientSampleId :

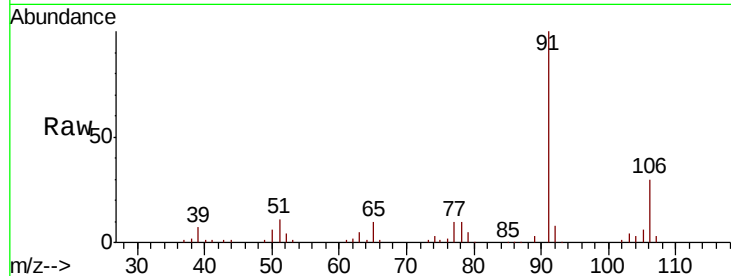
BG0Q0DL

Tot Ion: 91 Resp: 80654

Ion Ratio Lower Upper

91 100

106 30.0 21.0 39.0

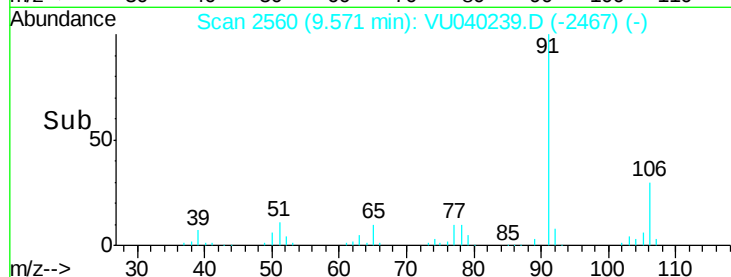


Abundance Ion 91.15 (90.85 to 91.85): VU040239.D (-2467) (-)

Ion 106.15 (105.85 to 106.85): VU040239.D (-2467) (-)

9.57

Time-->



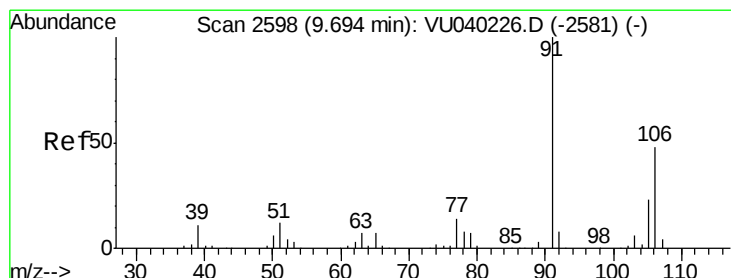
Abundance

Ion 91.15 (90.85 to 91.85): VU040239.D (-2467) (-)

Ion 106.15 (105.85 to 106.85): VU040239.D (-2467) (-)

9.57

Time-->



#53

m,p-Xylene

Concen: 1.523 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040239.D

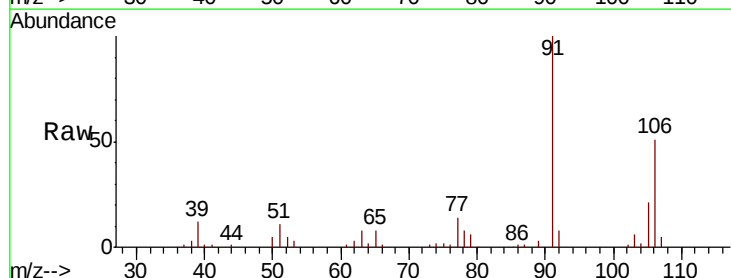
Acq: 21 Sep 2020 17:22

Tgt Ion: 106 Resp: 25662

Ion Ratio Lower Upper

106 100

91 197.4 151.7 281.7

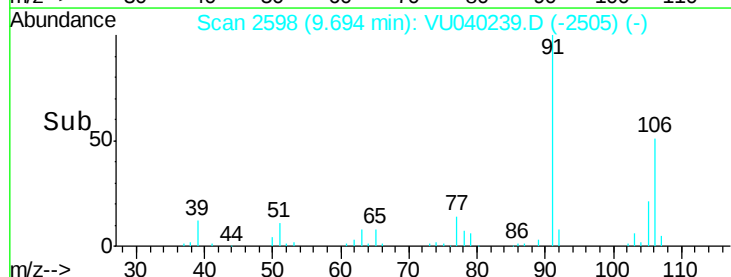


Abundance Ion 106.15 (105.85 to 106.85): VU040239.D (-2505) (-)

Ion 91.15 (90.85 to 91.85): VU040239.D (-2505) (-)

9.69

Time-->



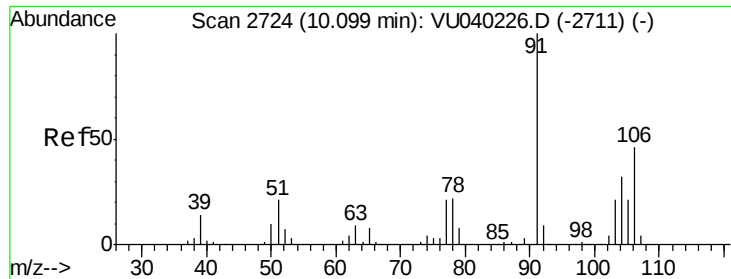
Abundance

Ion 106.15 (105.85 to 106.85): VU040239.D (-2505) (-)

Ion 91.15 (90.85 to 91.85): VU040239.D (-2505) (-)

9.69

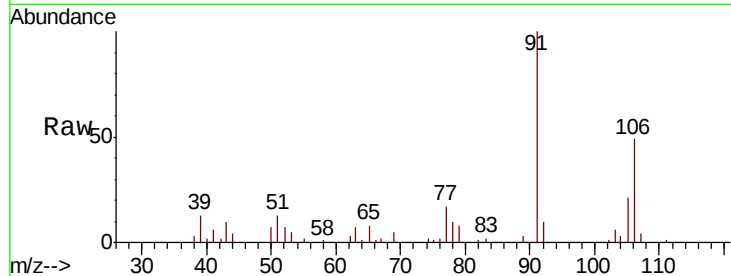
Time-->



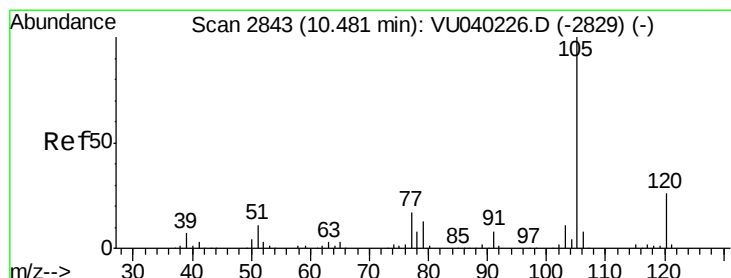
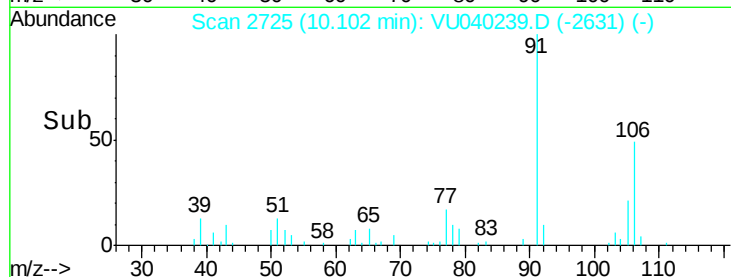
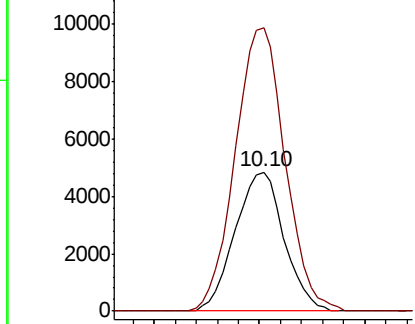
#54
o-Xylene
Concen: 0.486 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040239.D
Acq: 21 Sep 2020 17:22

Instrument :
MSVOA_U
ClientSampleId :
BG0Q0DL

Tot Ion:106 Resp: 7805
Ion Ratio Lower Upper
106 100
91 203.9 160.8 298.6

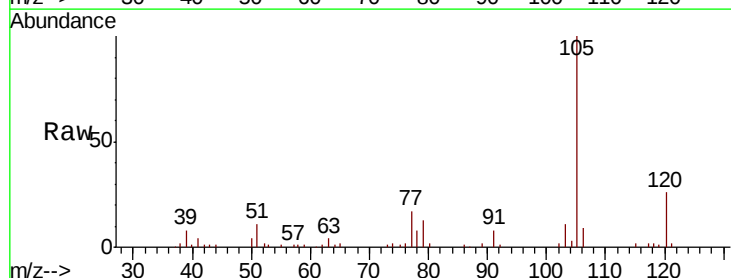


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

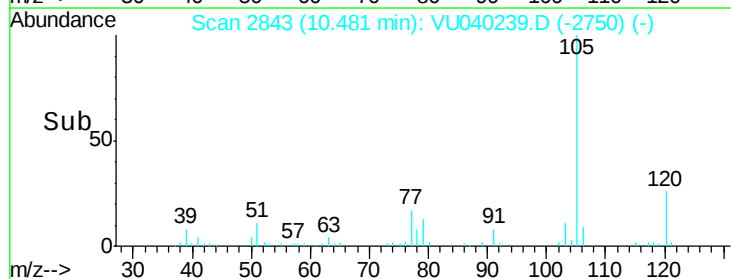
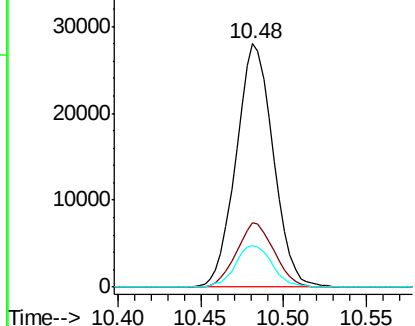


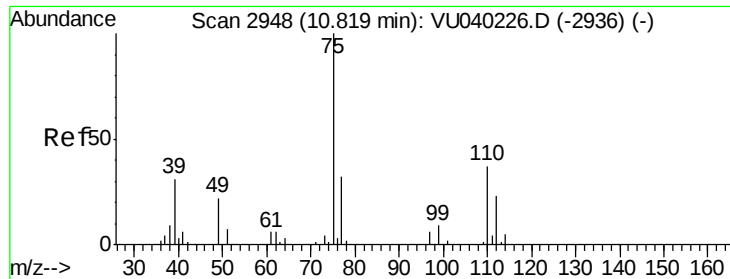
#56
Isopropylbenzene
Concen: 0.997 ug/L
RT: 10.48 min Scan# 2843
Delta R.T. -0.00 min
Lab File: VU040239.D
Acq: 21 Sep 2020 17:22

Tgt Ion:105 Resp: 43628
Ion Ratio Lower Upper
105 100
120 26.9 20.1 30.1
77 16.8 14.4 21.6



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

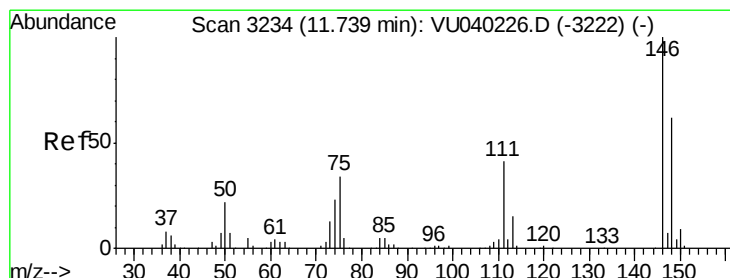
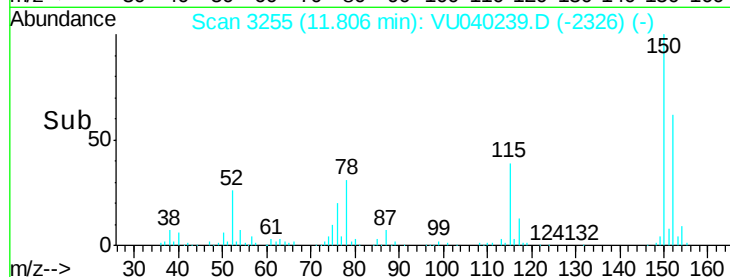
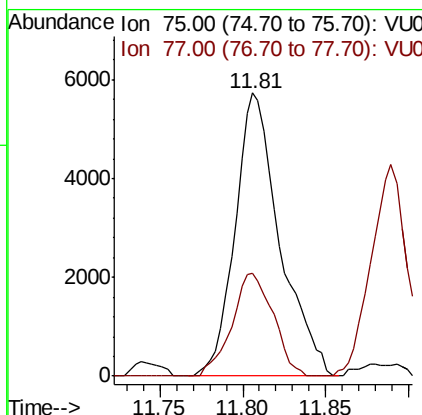
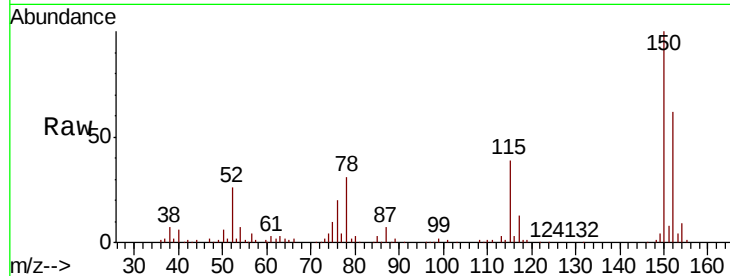




#59
 1,2,3-Trichloropropane
 Concen: 1.322 ug/L
 RT: 11.81 min Scan# 3255
 Delta R.T. 0.99 min
 Lab File: VU040239.D
 Acq: 21 Sep 2020 17:22

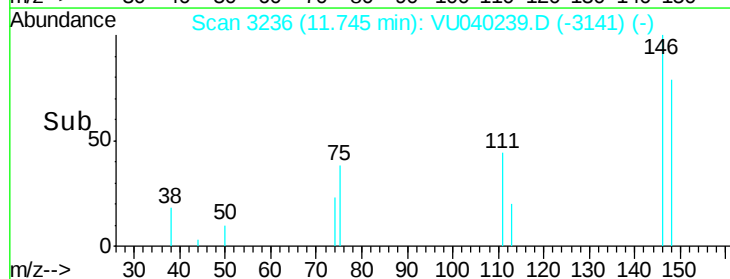
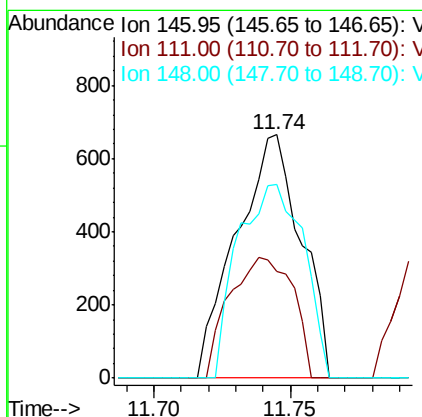
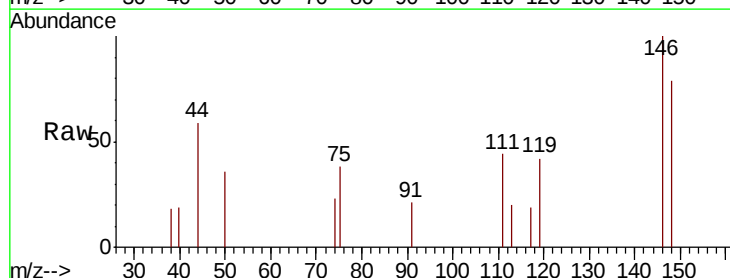
Instrument :
 MSVOA_U
 ClientSampleID :
 BG0Q0DL

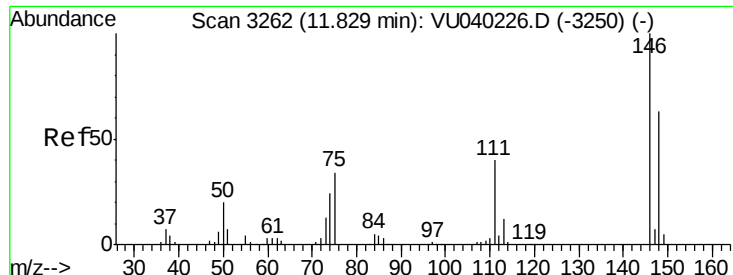
Tot Ion: 75 Resp: 10726
 Ion Ratio Lower Upper
 75 100
 77 33.6 24.9 37.3



#62
 1,3-Dichlorobenzene
 Concen: 0.053 ug/L
 RT: 11.74 min Scan# 3236
 Delta R.T. 0.01 min
 Lab File: VU040239.D
 Acq: 21 Sep 2020 17:22

Tgt Ion: 146 Resp: 1092
 Ion Ratio Lower Upper
 146 100
 111 44.0 31.6 58.8
 148 79.4 44.2 82.0





#63

1,4-Dichlorobenzene

Concen: 0.280 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. -0.00 min

Lab File: VU040239.D

Acq: 21 Sep 2020 17:22

Instrument :

MSVOA_U

ClientSampled :

BG0Q0DL

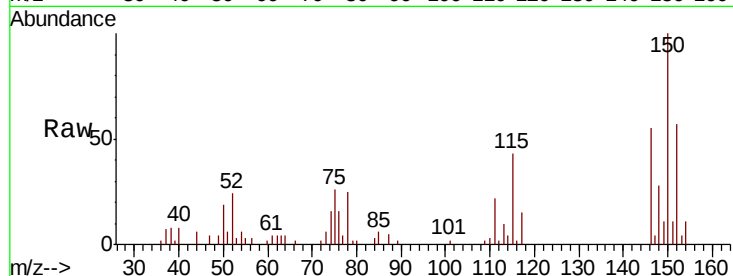
Tot Ion:146 Resp: 5843

Ion Ratio Lower Upper

146 100

111 40.0 30.5 56.7

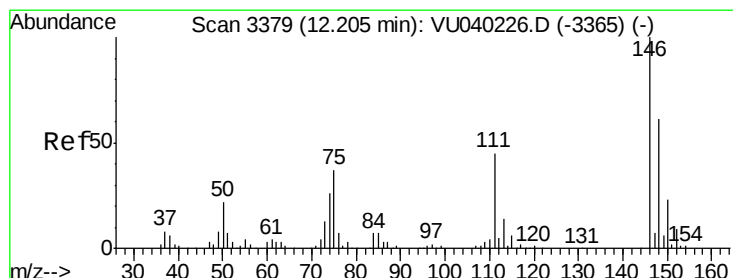
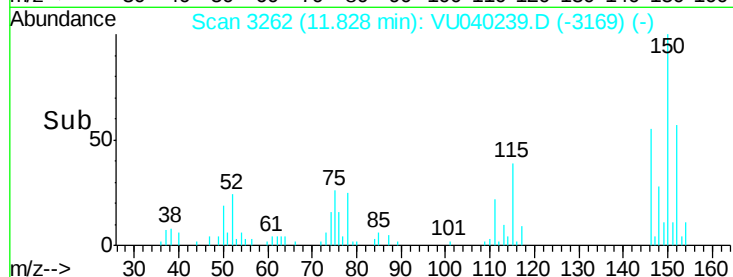
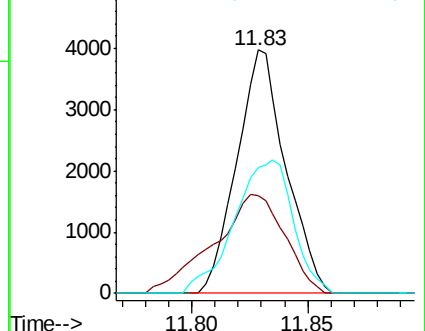
148 51.9 45.4 84.4



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: 0.178 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040239.D

Acq: 21 Sep 2020 17:22

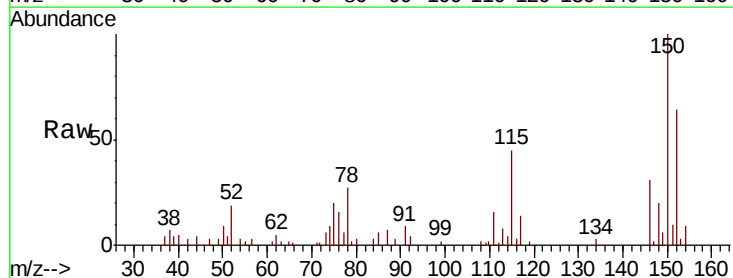
Tgt Ion:146 Resp: 3553

Ion Ratio Lower Upper

146 100

111 51.7 36.5 54.7

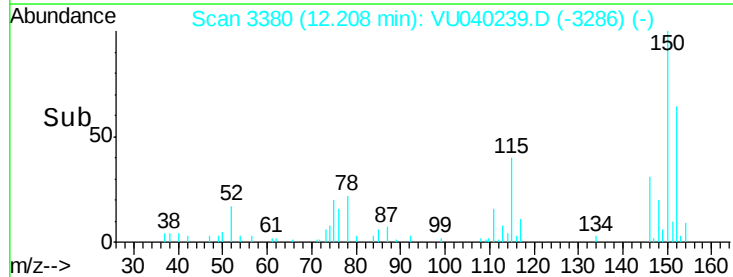
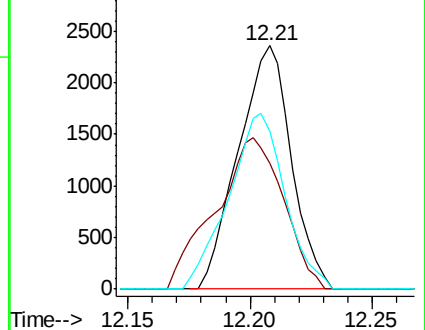
148 64.8 48.6 72.8

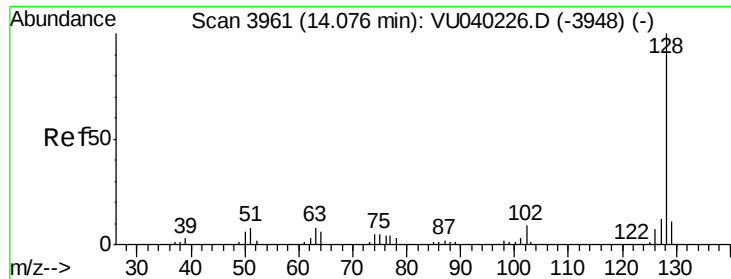


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#69

Naphthalene

Concen: 10.232 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040239.D

Acq: 21 Sep 2020 17:22

Instrument :

MSVOA_U

ClientSampleId :

BG0Q0DL

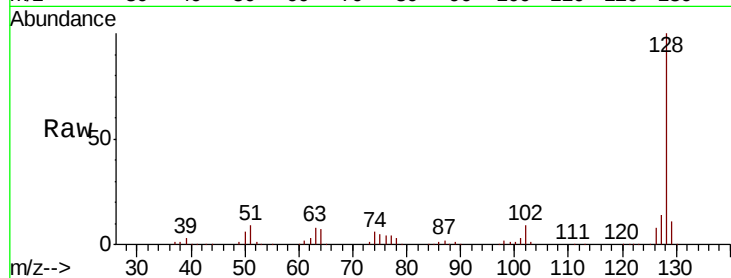
Tot Ion:128 Resp: 266332

Ion Ratio Lower Upper

128 100

129 10.5 8.7 13.1

127 13.4 10.7 16.1



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

