

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040120\
 Data File : VU037539.D
 Acq On : 01 Apr 2020 22:54
 Operator : JC/MD
 Sample : L2065-18
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 02 01:40:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR040120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Apr 02 01:37:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.34	114	78892	5.00	ug/L	0.05
28) Chlorobenzene-d5	9.45	117	74121	5.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	11.83	152	39810	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.66	65	20547	3.11	ug/L	0.05
Spiked Amount	5.000	Range	40 - 130	Recovery	=	62.20%
7) Chloroethane-d5	1.99	69	18247	3.59	ug/L	0.06
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.80%
11) 1,1-Dichloroethene-d2	2.64	63	29278	2.49	ug/L	0.05
Spiked Amount	5.000	Range	60 - 125	Recovery	=	49.80%#
20) 2-Butanone-d5	4.81	46	74418	41.50	ug/L	0.13
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.00%
24) Chloroform-d	5.18	84	44707	3.95	ug/L	0.08
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.00%
26) 1,2-Dichloroethane-d4	5.81	65	24033	3.84	ug/L	0.07
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.80%
32) Benzene-d6	5.83	84	84847	3.71	ug/L	0.07
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.20%
36) 1,2-Dichloropropane-d6	6.77	67	29618	3.95	ug/L	0.05
Spiked Amount	5.000	Range	60 - 140	Recovery	=	79.00%
41) Toluene-d8	7.95	98	71865	3.43	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.60%#
43) trans-1,3-Dichloropropene-	8.23	79	11360	3.36	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	67.20%
46) 2-Hexanone-d5	8.68	63	70163	42.91	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.82%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	25546	4.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.40%
64) 1,2-Dichlorobenzene-d4	12.21	152	31733	3.87	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	77.40%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.81	43	16340	16.164	ug/L	42
14) Carbon disulfide	2.87	76	12181	0.711	ug/L #	89
15) Methyl Acetate	2.81	43	16340	5.454	ug/L #	56
25) Chloroform	5.20	83	42801	3.906	ug/L	98
33) Benzene	5.88	78	72376	3.076	ug/L	100
35) Methylcyclohexane	6.77	83	6582	0.633	ug/L #	19
37) 1,2-Dichloropropane	6.77	63	3323	0.523	ug/L #	90
38) Bromodichloromethane	7.17	83	3743	0.462	ug/L	94
39) cis-1,3-Dichloropropene	7.62	75	787	0.081	ug/L #	14
42) Toluene	8.02	91	502203	20.082	ug/L	96
45) 1,1,2-Trichloroethane	8.32	97	3418	0.770	ug/L #	19
52) Ethylbenzene	9.60	91	641188	22.503	ug/L	100
53) m,p-Xylene	9.72	106	580829	54.232	ug/L	95
54) o-Xylene	10.13	106	231697	22.462	ug/L	99
55) Styrene	10.14	104	344865	19.357	ug/L	98
56) Isopropylbenzene	10.51	105	149619	5.326	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.78	83	1280	0.214	ug/L #	93

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Apr 02 01:37:22 2020
Response via : Initial Calibration

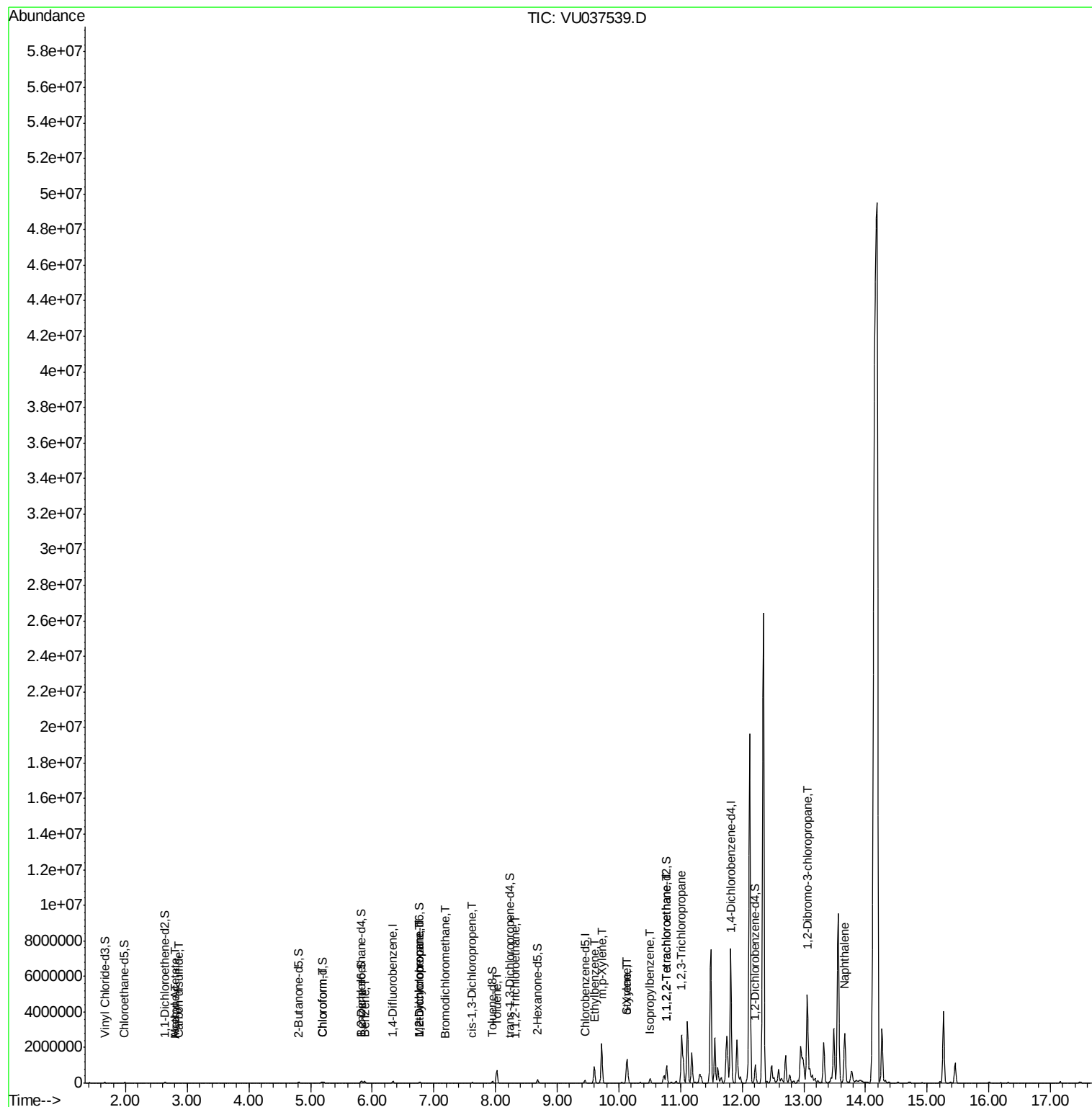
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.02	75	21514	5.167	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	13.06	75	123515	102.098	ug/L #	10
69) Naphthalene	13.66	128	356349	18.124	ug/L #	1

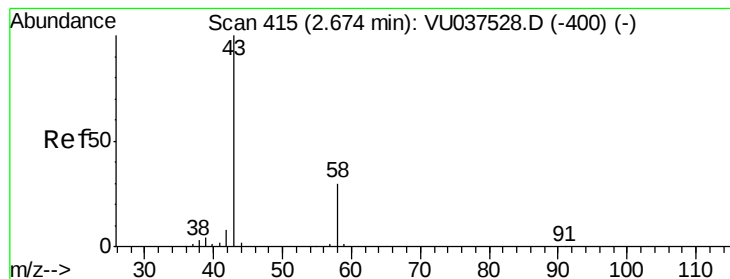
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 16.164 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.13 min

Lab File: VU037539.D

Acq: 01 Apr 2020 22:54

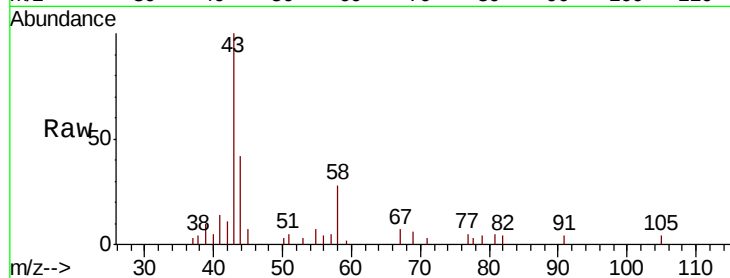
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 16340

Ion Ratio Lower Upper

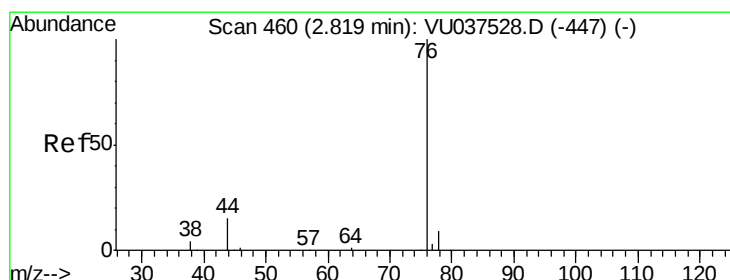
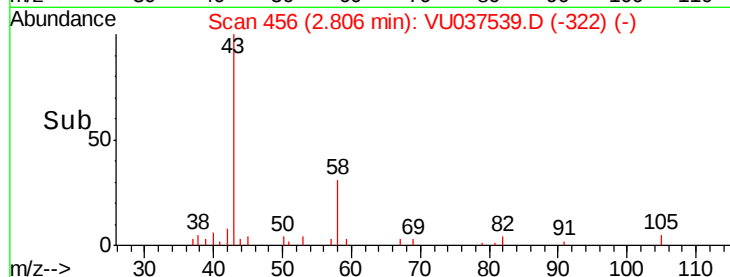
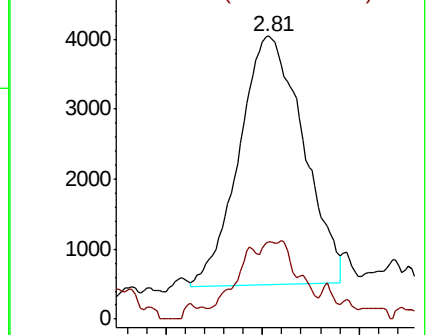
43 100

58 0.9 0.0 68.2



Abundance Ion 43.05 (42.75 to 43.75): VU037528.D (-400) (-)

Ion 58.05 (57.75 to 58.75): VU037528.D (-400) (-)



#14

Carbon disulfide

Concen: 0.711 ug/L

RT: 2.87 min Scan# 475

Delta R.T. 0.05 min

Lab File: VU037539.D

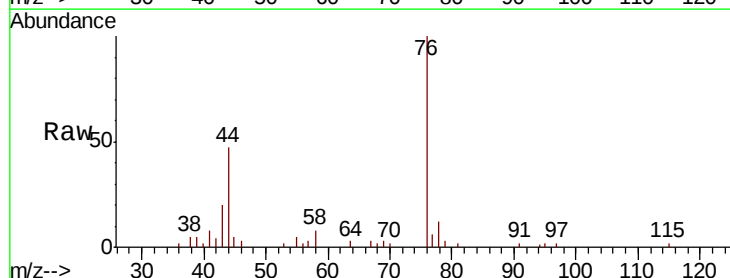
Acq: 01 Apr 2020 22:54

Tgt Ion: 76 Resp: 12181

Ion Ratio Lower Upper

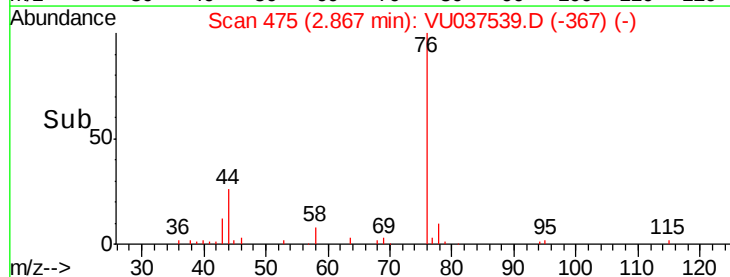
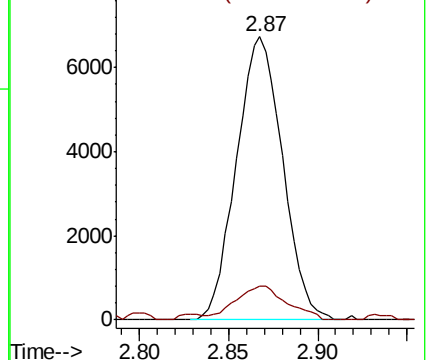
76 100

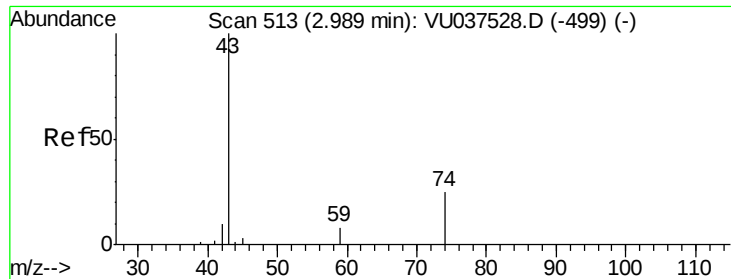
78 11.8 6.3 9.5#



Abundance Ion 76.05 (75.75 to 76.75): VU037528.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU037528.D (-447) (-)

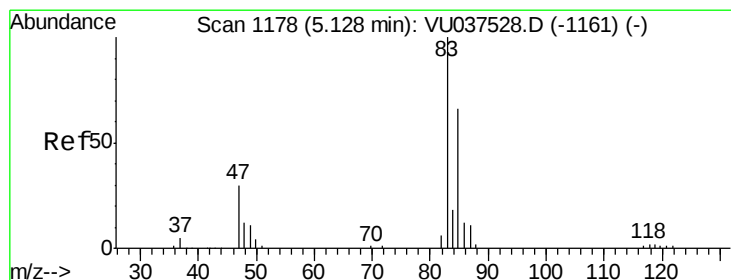
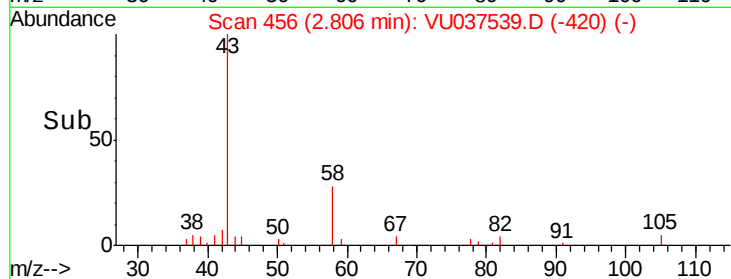
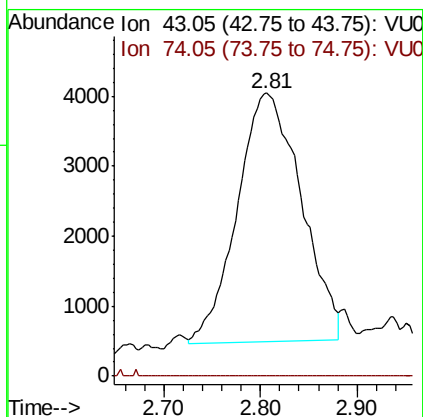
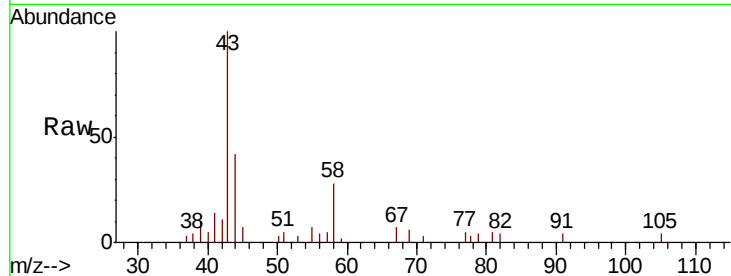




#15
Methvl Acetate
Concen: 5.454 ug/L
RT: 2.81 min Scan# 456
Delta R.T. -0.18 min
Lab File: VU037539.D
Acq: 01 Apr 2020 22:54

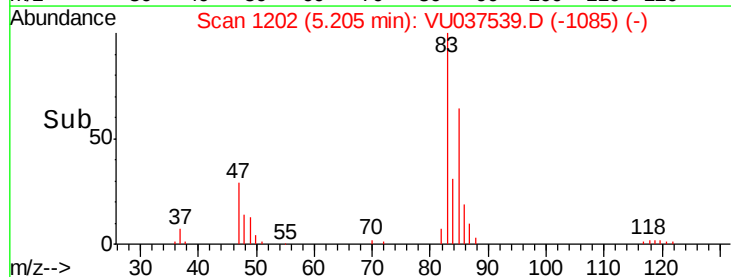
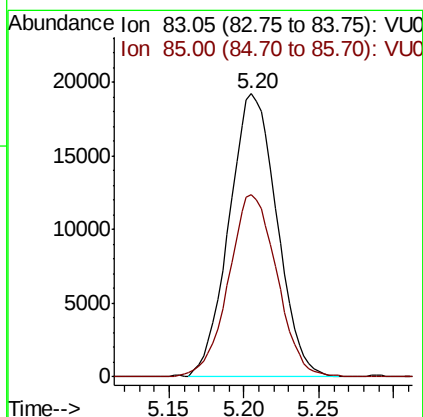
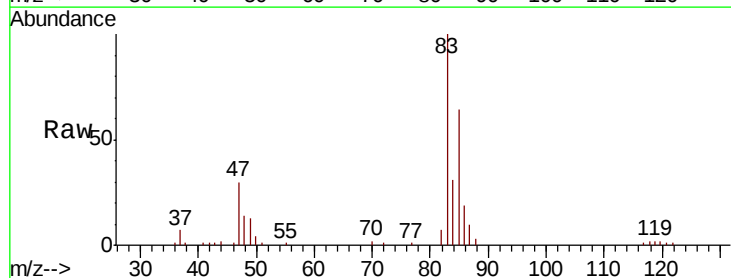
Instrument :
MSVOA_U
ClientSampleId :

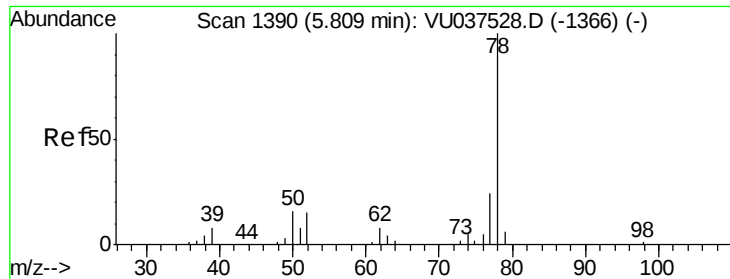
Tot Ion: 43 Resp: 16340
Ion Ratio Lower Upper
43 100
74 0.3 16.8 25.2#



#25
Chloroform
Concen: 3.906 ug/L
RT: 5.20 min Scan# 1202
Delta R.T. 0.08 min
Lab File: VU037539.D
Acq: 01 Apr 2020 22:54

Tgt Ion: 83 Resp: 42801
Ion Ratio Lower Upper
83 100
85 64.3 45.8 85.2

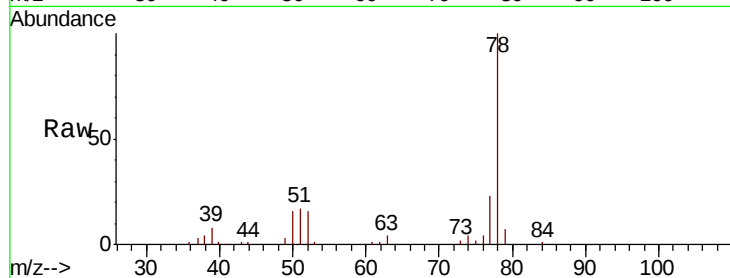




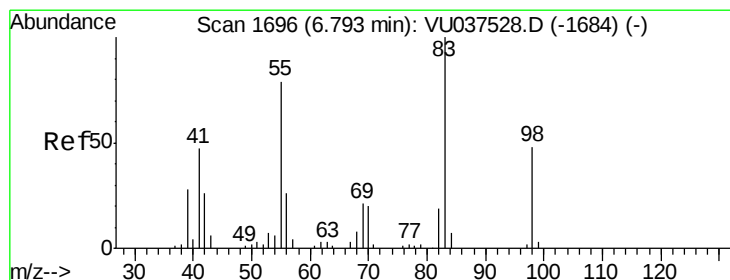
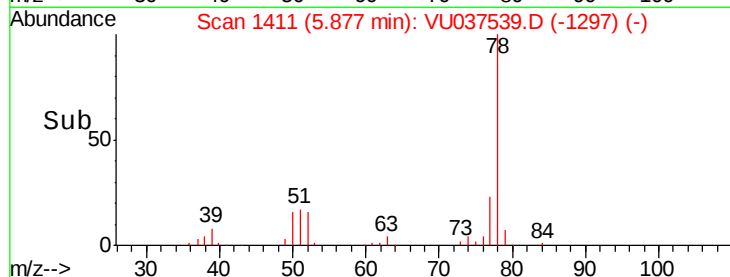
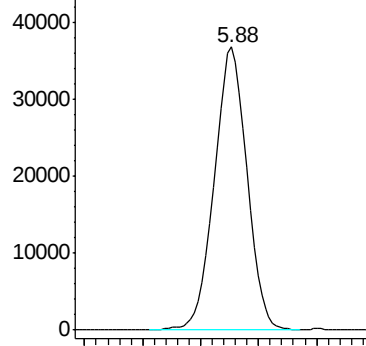
#33
Benzene
Concen: 3.076 ug/L
RT: 5.88 min Scan# 1411
Delta R.T. 0.07 min
Lab File: VU037539.D
Acq: 01 Apr 2020 22:54

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 72376

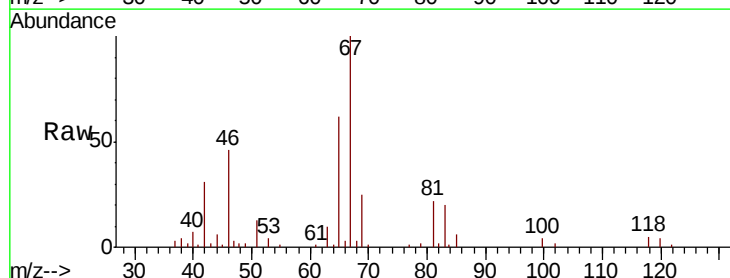


Abundance Ion 78.10 (77.80 to 78.80): VU0



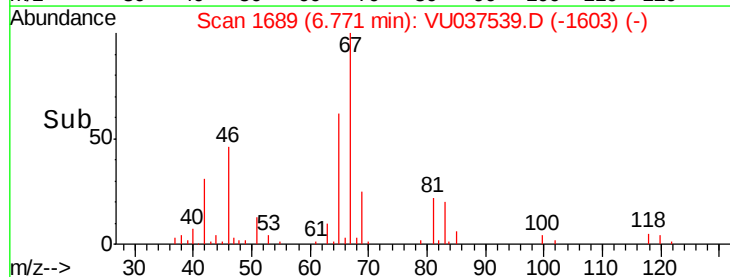
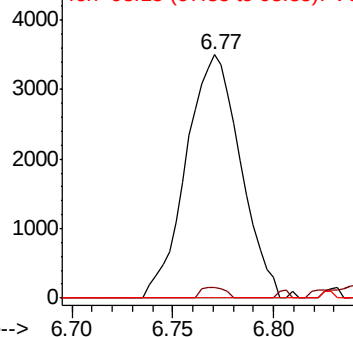
#35
Methylcyclohexane
Concen: 0.633 ug/L
RT: 6.77 min Scan# 1689
Delta R.T. -0.02 min
Lab File: VU037539.D
Acq: 01 Apr 2020 22:54

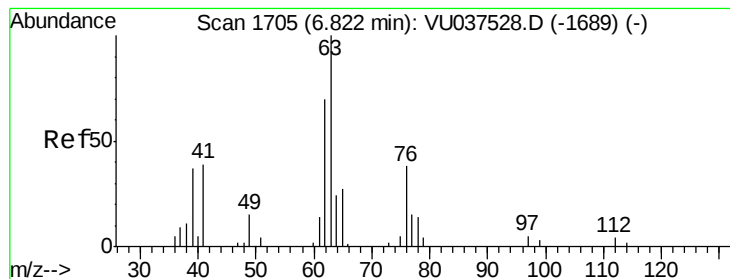
Tgt Ion: 83 Resp: 6582
Ion Ratio Lower Upper
83 100
55 2.0 63.0 94.6#
98 0.0 35.3 52.9#



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: 0.523 ug/L

RT: 6.77 min Scan# 1689

Delta R.T. -0.05 min

Lab File: VU037539.D

Acq: 01 Apr 2020 22:54

Instrument :

MSVOA_U

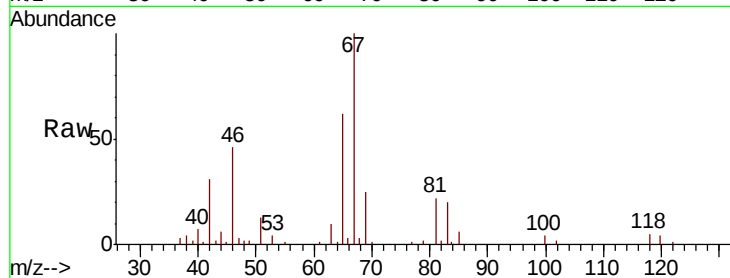
ClientSampleId :

Tot Ion: 63 Resp: 3323

Ion Ratio Lower Upper

63 100

112 0.0 2.6 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VU037528.D (-1689) (-)

Ion 112.10 (111.80 to 112.80): VU037528.D (-1689) (-)

6.77

1500

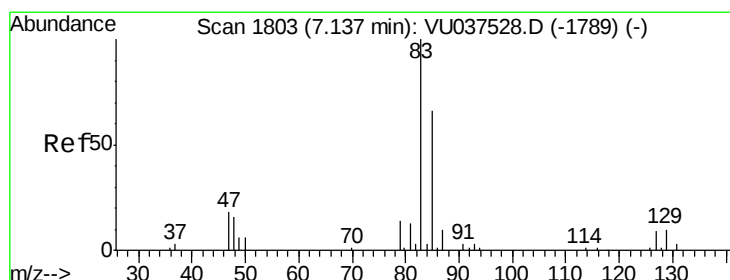
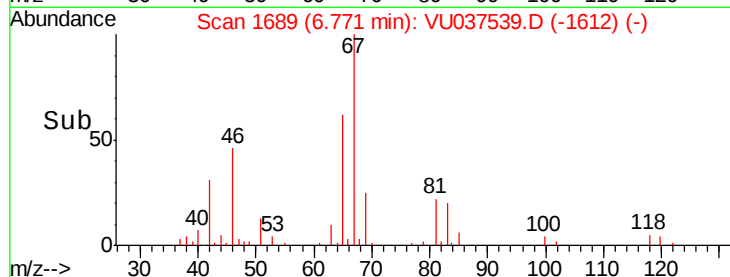
1000

500

0

6.70 6.75 6.80

Time-->



#38

Bromodichloromethane

Concen: 0.462 ug/L

RT: 7.17 min Scan# 1814

Delta R.T. 0.04 min

Lab File: VU037539.D

Acq: 01 Apr 2020 22:54

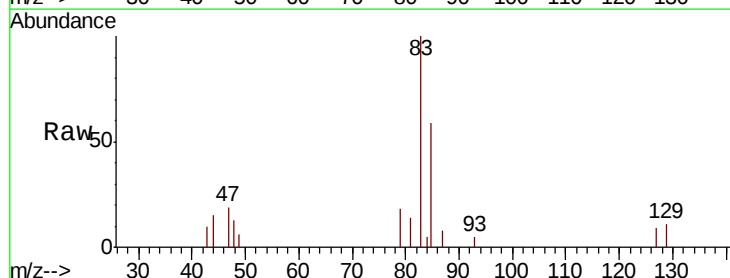
Tgt Ion: 83 Resp: 3743

Ion Ratio Lower Upper

83 100

85 58.9 44.4 82.5

127 9.2 6.5 9.7



Abundance Ion 82.95 (82.65 to 83.65): VU037528.D (-1789) (-)

Ion 85.00 (84.70 to 85.70): VU037528.D (-1789) (-)

Ion 126.90 (126.60 to 127.60): VU037528.D (-1789) (-)

2500

2000

1500

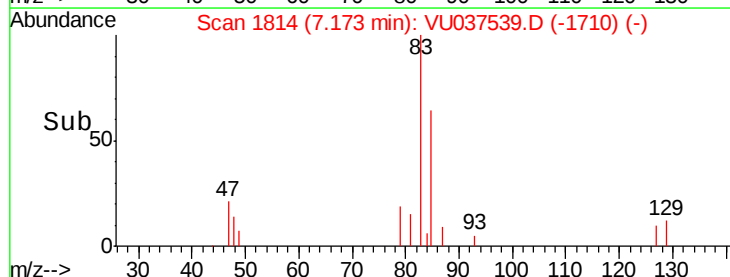
1000

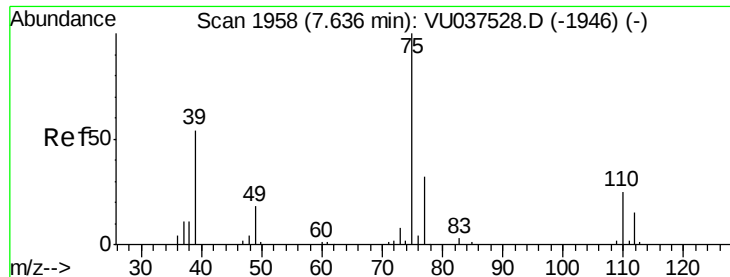
500

0

7.15 7.20

Time-->

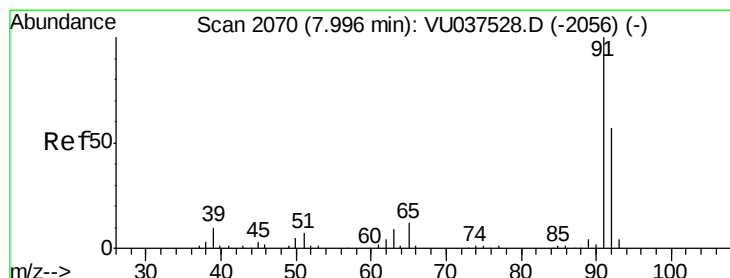
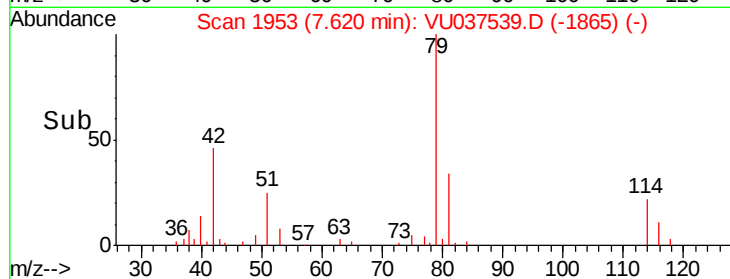
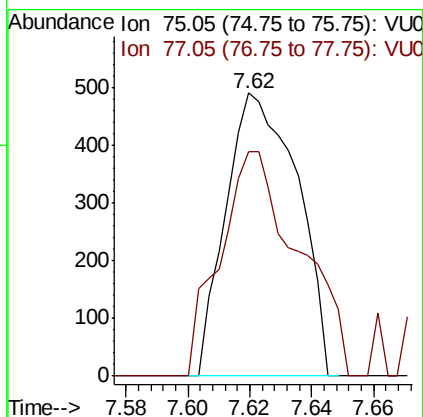
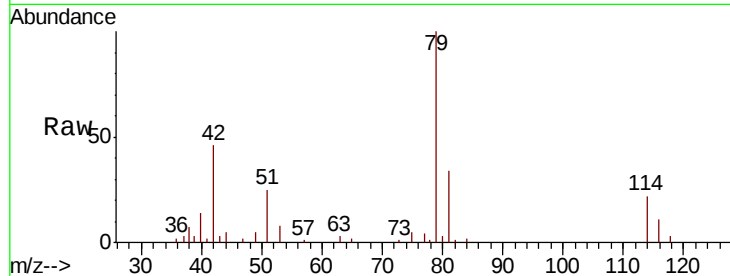




#39
 cis-1,3-Dichloropropene
 Concen: 0.081 ug/L
 RT: 7.62 min Scan# 1953
 Delta R.T. -0.02 min
 Lab File: VU037539.D
 Acq: 01 Apr 2020 22:54

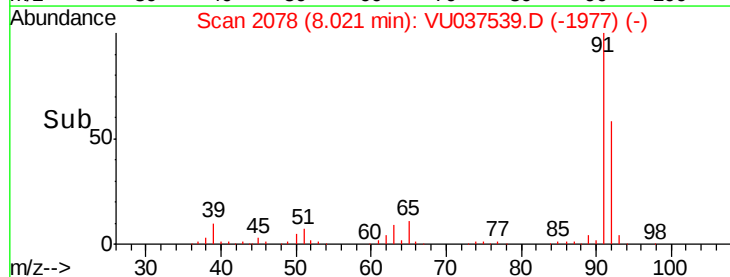
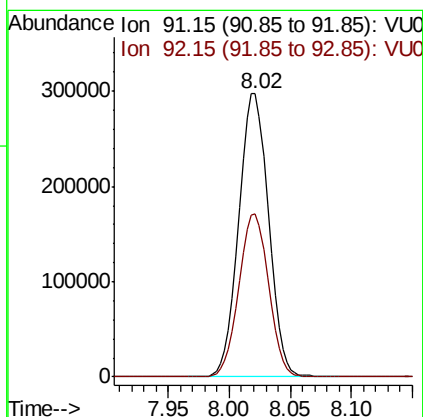
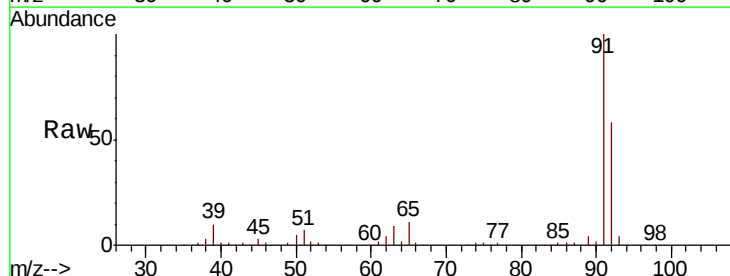
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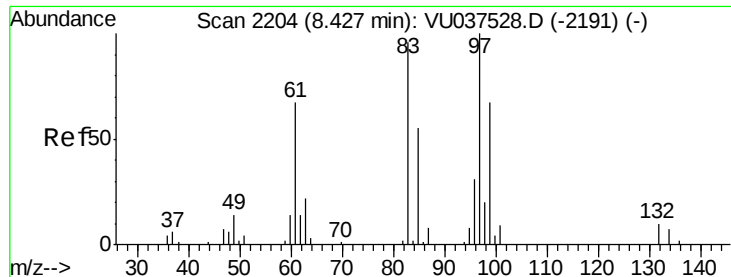
Tot Ion: 75 Resp: 787
 Ion Ratio Lower Upper
 75 100
 77 79.2 22.2 41.2#



#42
 Toluene
 Concen: 20.082 ug/L
 RT: 8.02 min Scan# 2078
 Delta R.T. 0.03 min
 Lab File: VU037539.D
 Acq: 01 Apr 2020 22:54

Tgt Ion: 91 Resp: 502203
 Ion Ratio Lower Upper
 91 100
 92 57.8 38.6 71.8

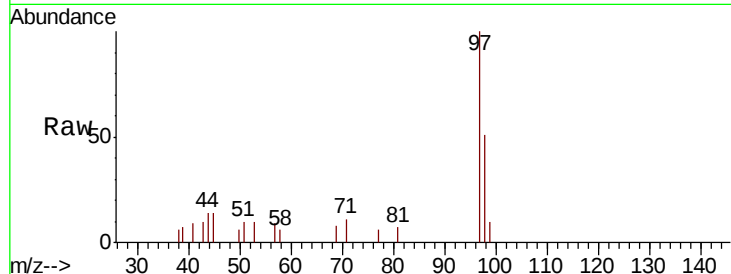




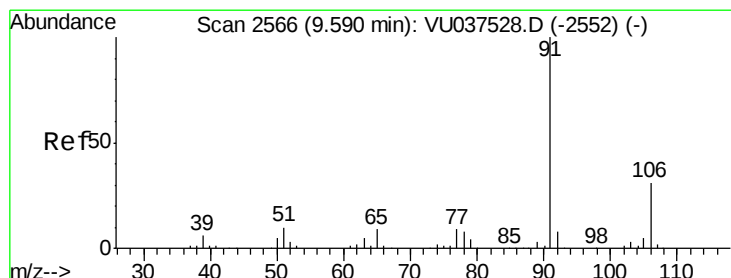
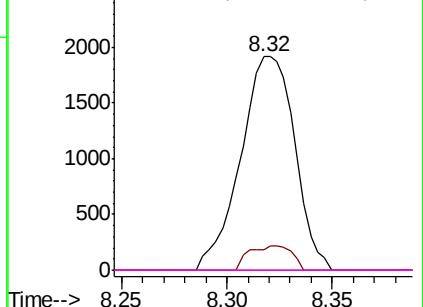
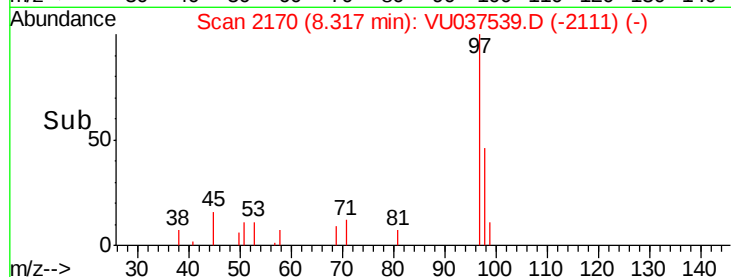
#45
 1,1,2-Trichloroethane
 Concen: 0.770 ug/L
 RT: 8.32 min Scan# 2170
 Delta R.T. -0.11 min
 Lab File: VU037539.D
 Acq: 01 Apr 2020 22:54

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 3418
 Ion Ratio Lower Upper
 97 100
 99 9.9 42.8 79.4#
 83 0.0 61.0 113.4#
 85 0.0 39.8 73.8#

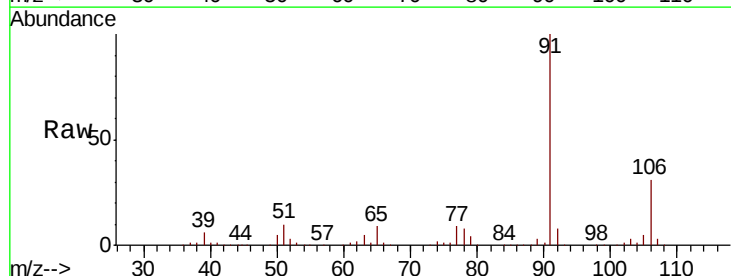


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

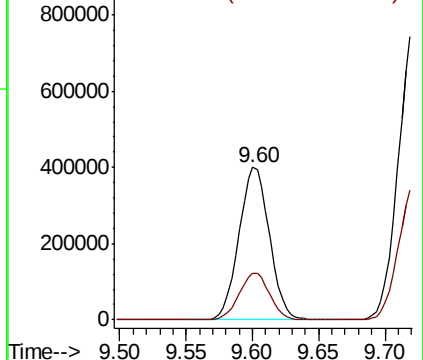
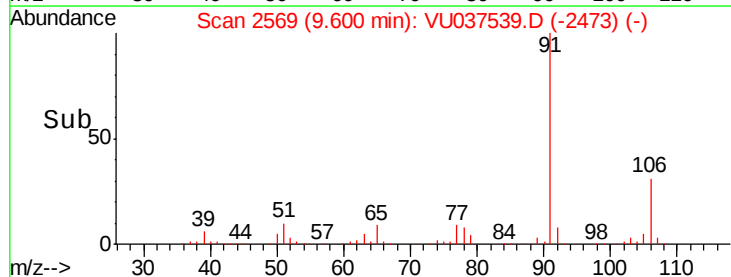


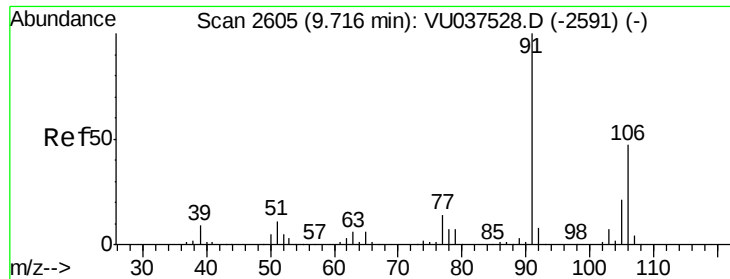
#52
 Ethylbenzene
 Concen: 22.503 ug/L
 RT: 9.60 min Scan# 2569
 Delta R.T. 0.01 min
 Lab File: VU037539.D
 Acq: 01 Apr 2020 22:54

Tgt Ion: 91 Resp: 641188
 Ion Ratio Lower Upper
 91 100
 106 30.6 21.3 39.5



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





#53

m,p-Xylene

Concen: 54.232 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.01 min

Lab File: VU037539.D

Acq: 01 Apr 2020 22:54

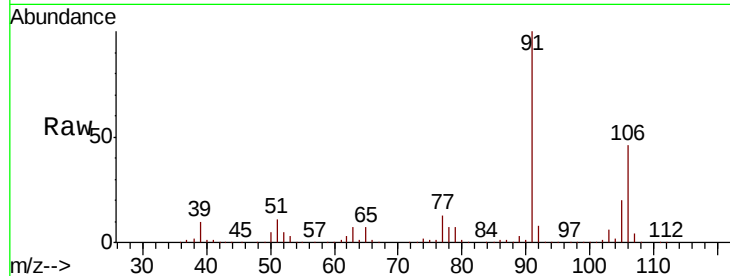
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 580829

Ion Ratio Lower Upper

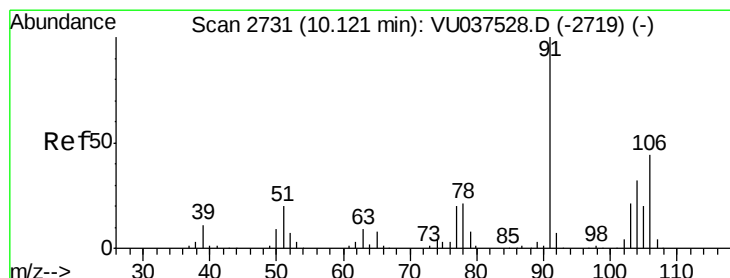
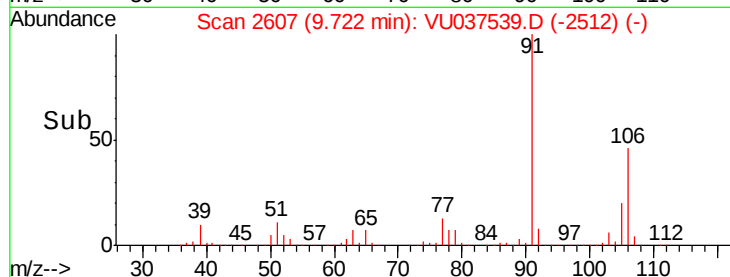
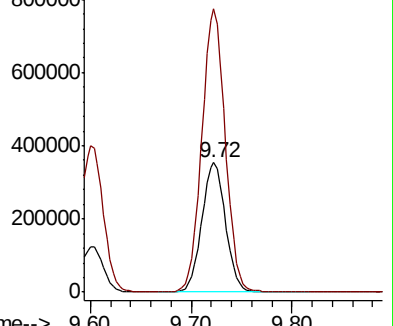
106 100

91 218.8 147.4 273.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 22.462 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.01 min

Lab File: VU037539.D

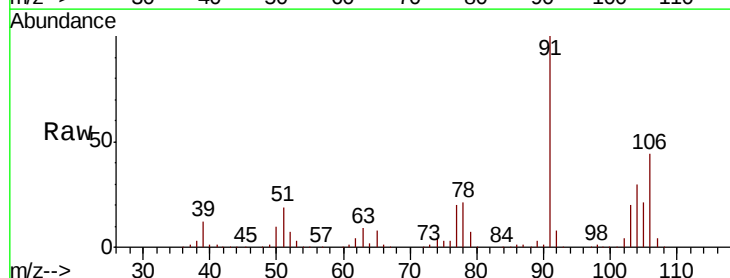
Acq: 01 Apr 2020 22:54

Tgt Ion:106 Resp: 231697

Ion Ratio Lower Upper

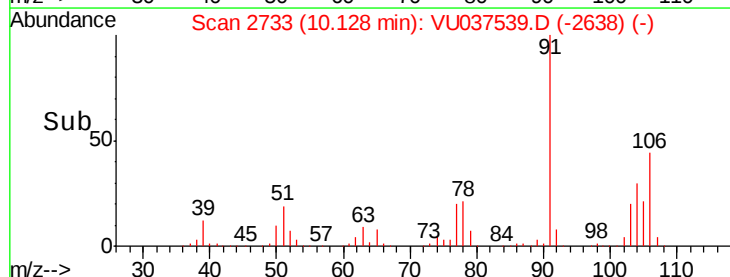
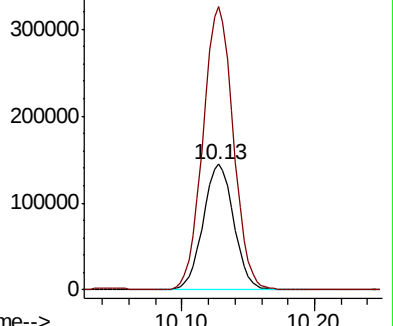
106 100

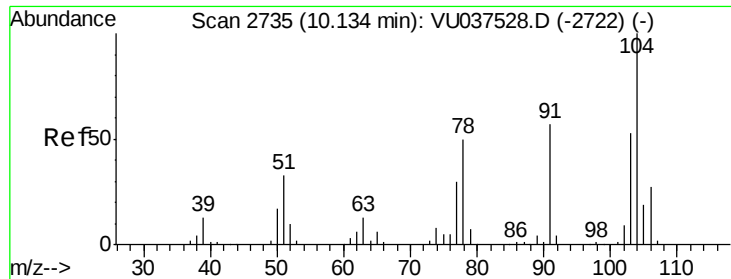
91 225.3 156.8 291.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#55

Stvrene

Concen: 19.357 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.01 min

Lab File: VU037539.D

Acq: 01 Apr 2020 22:54

Instrument :

MSVOA_U

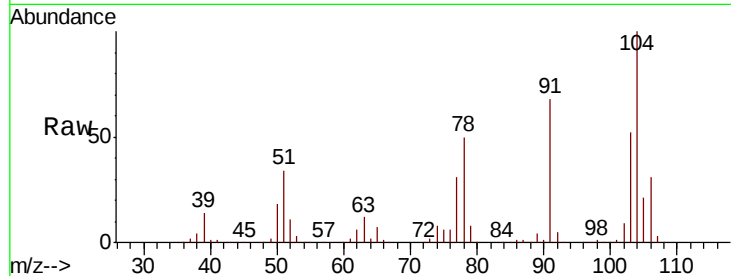
ClientSampleId :

Tot Ion:104 Resp: 344865

Ion Ratio Lower Upper

104 100

78 50.1 36.1 67.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0

250000

200000

150000

100000

50000

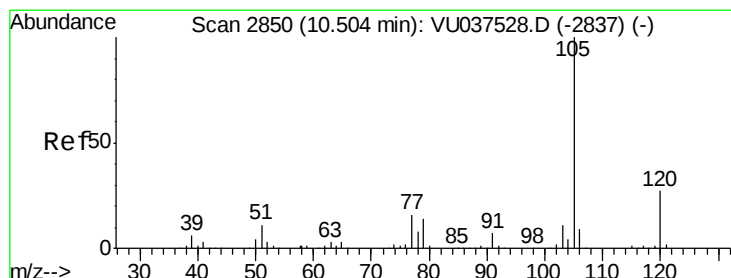
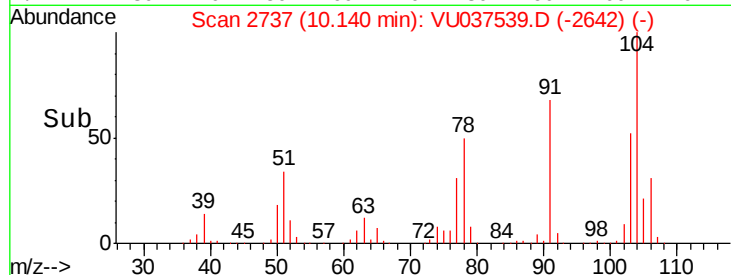
0

10.10

10.14

10.20

Time-->



#56

Isopropylbenzene

Concen: 5.326 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU037539.D

Acq: 01 Apr 2020 22:54

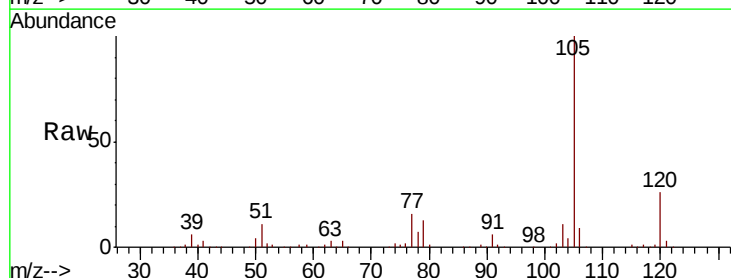
Tgt Ion:105 Resp: 149619

Ion Ratio Lower Upper

105 100

120 26.2 20.6 31.0

77 16.6 13.5 20.3



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

120000

100000

80000

60000

40000

20000

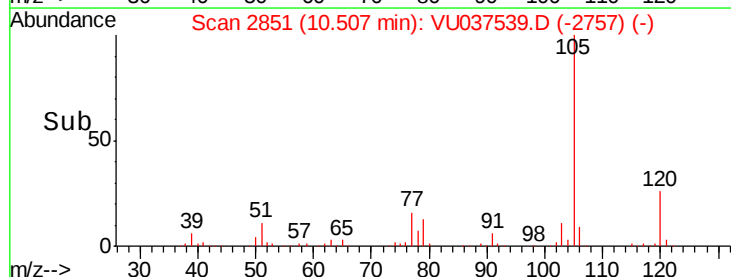
0

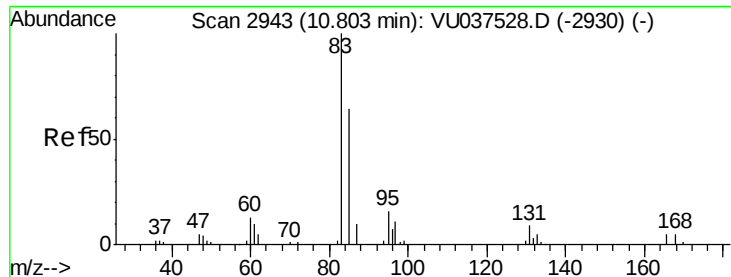
10.45

10.51

10.55

Time-->





#58

1,1,2,2-Tetrachloroethane

Concen: 0.214 ug/L

RT: 10.78 min Scan# 2935

Delta R.T. -0.03 min

Lab File: VU037539.D

Acq: 01 Apr 2020 22:54

Instrument :

MSVOA_U

ClientSampleId :

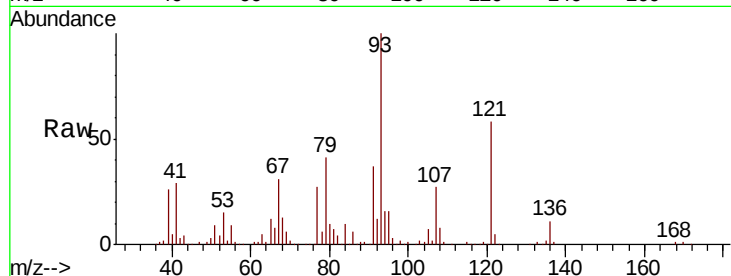
Tot Ion: 83 Resp: 1280

Ion Ratio Lower Upper

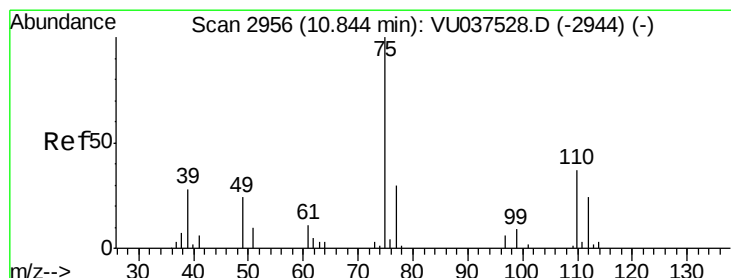
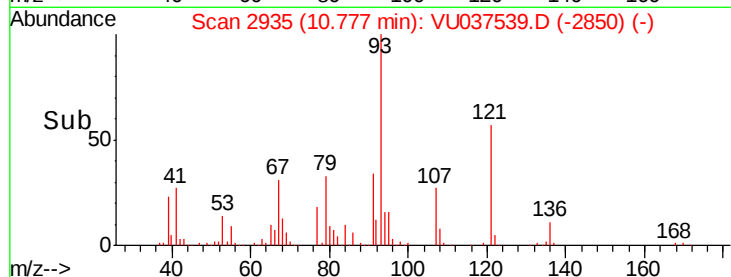
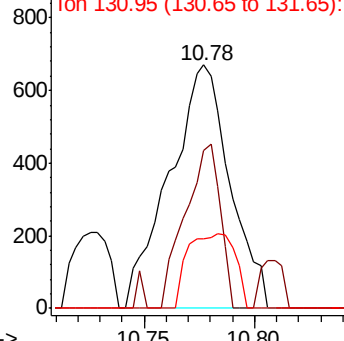
83 100

85 65.0 45.2 84.0

131 28.6 6.6 9.8#



Abundance Ion 82.95 (82.65 to 83.65): VU037528.D (-2930) (-)



#59

1,2,3-Trichloropropane

Concen: 5.167 ug/L

RT: 11.02 min Scan# 3011

Delta R.T. 0.18 min

Lab File: VU037539.D

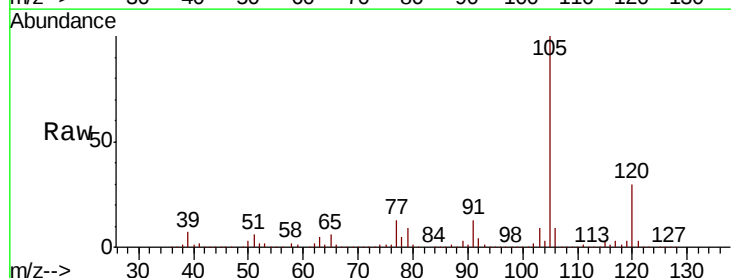
Acq: 01 Apr 2020 22:54

Tgt Ion: 75 Resp: 21514

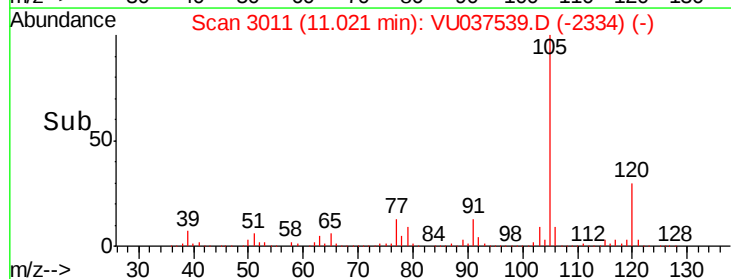
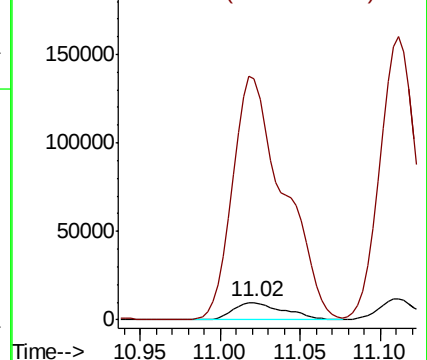
Ion Ratio Lower Upper

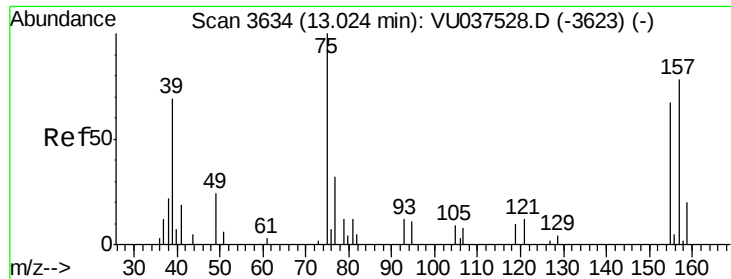
75 100

77 1407.2 25.8 38.6#



Abundance Ion 75.00 (74.70 to 75.70): VU037528.D (-2944) (-)

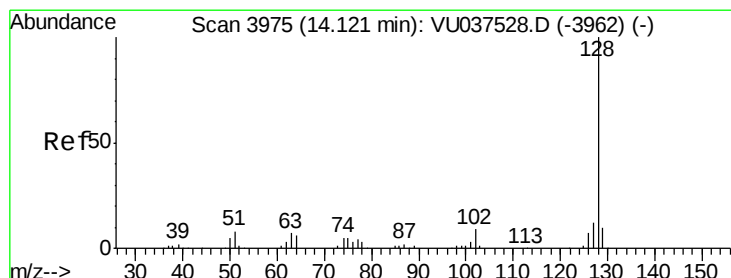
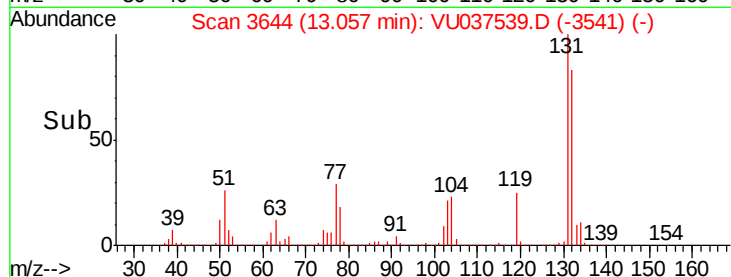
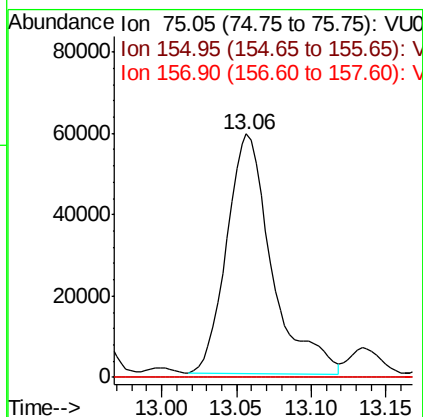
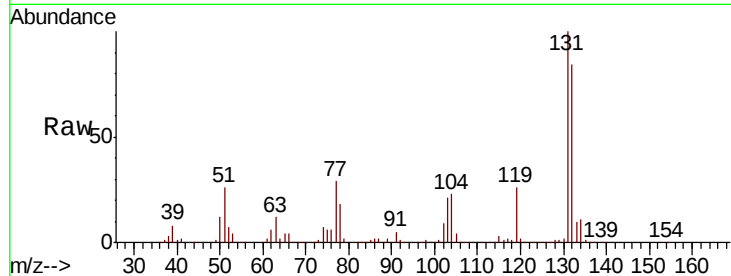




#66
 1,2-Dibromo-3-chloropropane
 Concen: 102.098 ug/L
 RT: 13.06 min Scan# 3644
 Delta R.T. 0.03 min
 Lab File: VU037539.D
 Acq: 01 Apr 2020 22:54

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 123515
 Ion Ratio Lower Upper
 75 100
 155 0.0 51.0 76.4#
 157 0.0 72.0 108.0#



#69
 Naphthalene
 Concen: 18.124 ug/L
 RT: 13.66 min Scan# 3833
 Delta R.T. -0.46 min
 Lab File: VU037539.D
 Acq: 01 Apr 2020 22:54

Tgt Ion:128 Resp: 356349
 Ion Ratio Lower Upper
 128 100
 129 196.9 8.4 12.6#
 127 0.0 10.4 15.6#

