

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U052720\
 Data File : VU038326.D
 Acq On : 27 May 2020 17:19
 Operator : JC/MD
 Sample : L2749-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 28 04:19:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 28 04:16:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	293115	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	292833	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	153833	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	86704	3.23	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.60%
7) Chloroethane-d5	1.93	69	82584	3.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.20%
11) 1,1-Dichloroethene-d2	2.59	63	138422	3.09	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.80%
20) 2-Butanone-d5	4.69	46	370712	56.04	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.08%
24) Chloroform-d	5.10	84	196547	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
26) 1,2-Dichloroethane-d4	5.74	65	115893	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
32) Benzene-d6	5.76	84	407557	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	6.72	67	130881	4.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.40%
41) Toluene-d8	7.92	98	373732	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
43) trans-1,3-Dichloropropene-	8.20	79	50618	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
46) 2-Hexanone-d5	8.66	63	288326	53.82	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.64%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	112553	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.80%
64) 1,2-Dichlorobenzene-d4	12.20	152	149193	4.98	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.95	64	32779	1.683	ug/L #	81
13) Acetone	2.70	43	20987	5.057	ug/L	82
15) Methyl Acetate	3.07	43	14160	1.220	ug/L #	59
16) Methylene chloride	3.08	84	1692	0.071	ug/L #	76
17) Methyl tert-butyl Ether	3.40	73	35067	0.620	ug/L #	1
18) trans-1,2-Dichloroethene	3.39	96	4853	0.219	ug/L	98
19) 1,1-Dichloroethane	3.91	63	5692	0.131	ug/L	94
30) Cyclohexane	5.42	56	112216	2.833	ug/L	100
33) Benzene	5.81	78	228509	2.437	ug/L	100
35) Methylcyclohexane	6.79	83	59143	1.557	ug/L #	87
37) 1,2-Dichloropropane	6.73	63	14278	0.561	ug/L #	95
38) Bromodichloromethane	7.19	83	6751	0.229	ug/L #	38
42) Toluene	7.99	91	35360	0.357	ug/L	91
45) 1,1,2-Trichloroethane	8.39	97	3999	0.226	ug/L #	22
48) 2-Hexanone	8.71	43	38456	2.975	ug/L #	82
51) Chlorobenzene	9.47	112	4912307	79.962	ug/L	99
52) Ethylbenzene	9.59	91	10670	0.100	ug/L	97

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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 28 04:16:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

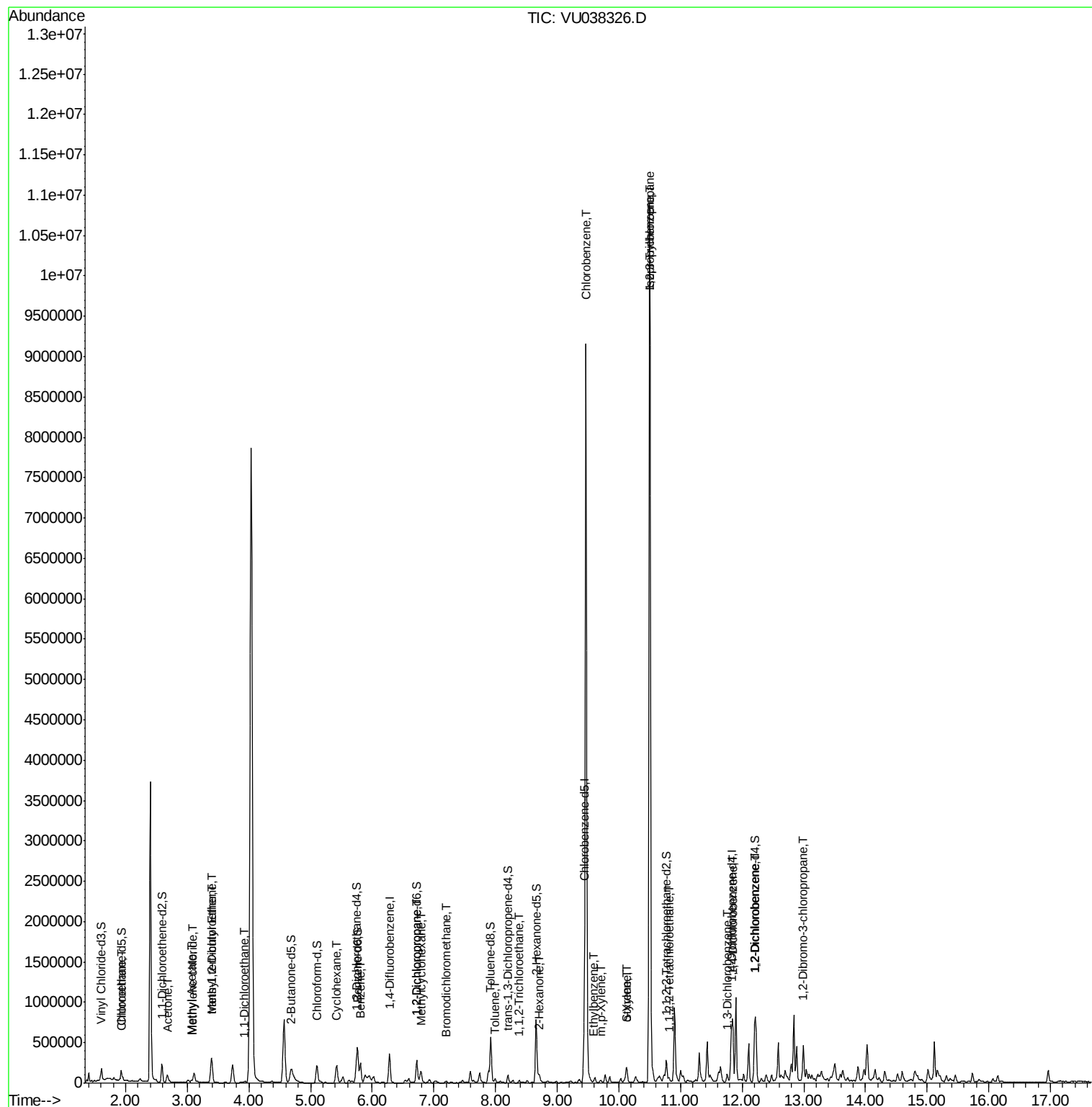
53) m,p-Xylene	9.71	106	3625	0.088	ug/L	62
54) o-Xylene	10.12	106	21897	0.551	ug/L	99
55) Styrene	10.13	104	5724	0.086	ug/L	82
56) Isopropylbenzene	10.50	105	7328092	71.762	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	6410	0.285	ug/L #	31
59) 1,2,3-Trichloropropane	10.50	75	85548	5.004	ug/L #	1
62) 1,3-Dichlorobenzene	11.76	146	28540	0.570	ug/L	97
63) 1,4-Dichlorobenzene	11.85	146	283146	5.583	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	200507	4.164	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.00	75	2001	0.508	ug/L #	8

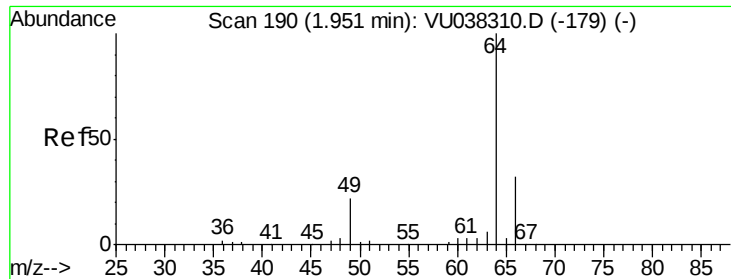
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 28 04:16:01 2020
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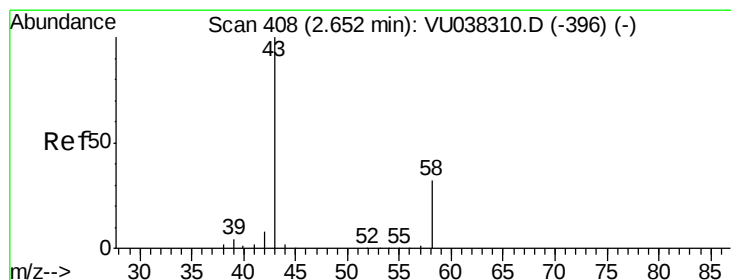
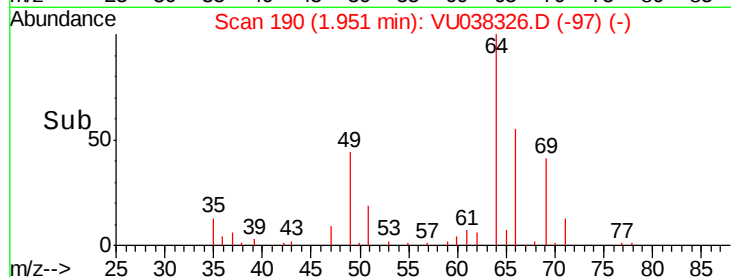
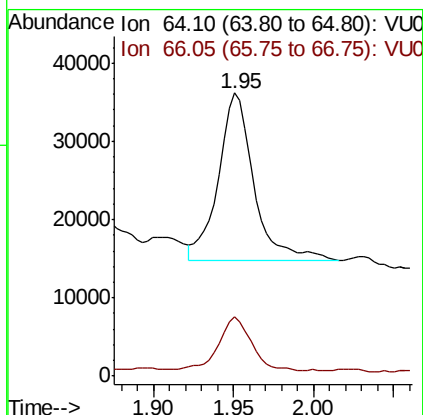
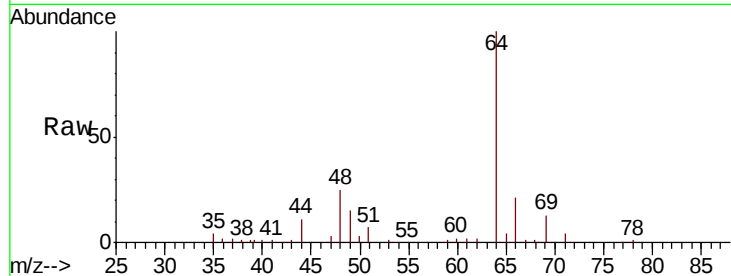




#8
Chloroethane
Concen: 1.683 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

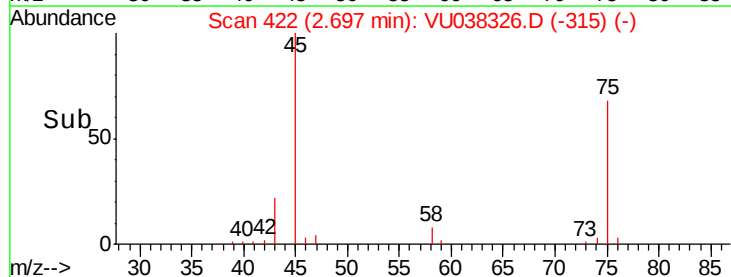
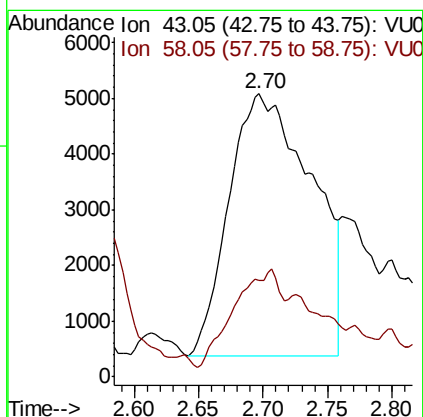
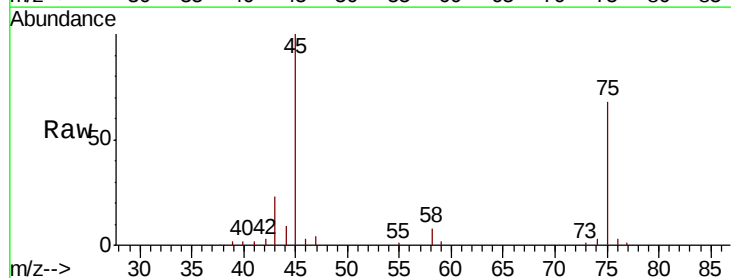
Instrument :
MSVOA_U
ClientSampleId :

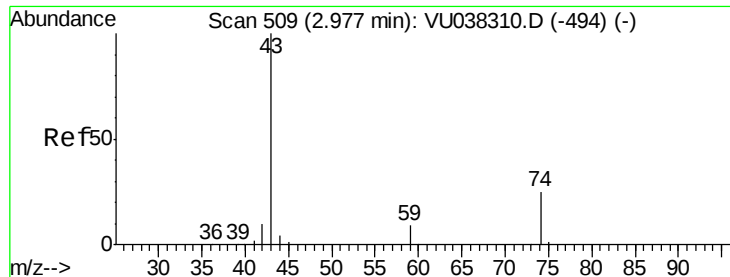
Tot Ion: 64 Resp: 32779
Ion Ratio Lower Upper
64 100
66 20.8 21.8 40.4#



#13
Acetone
Concen: 5.057 ug/L
RT: 2.70 min Scan# 422
Delta R.T. 0.04 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

Tgt Ion: 43 Resp: 20987
Ion Ratio Lower Upper
43 100
58 22.1 0.0 63.6

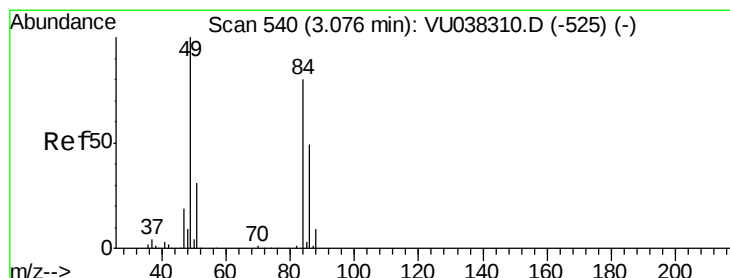
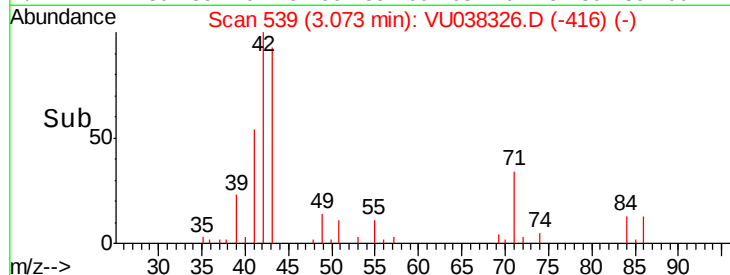
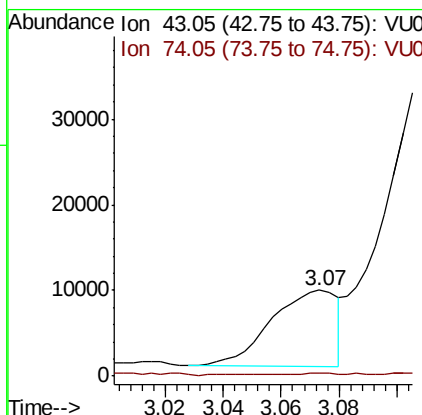
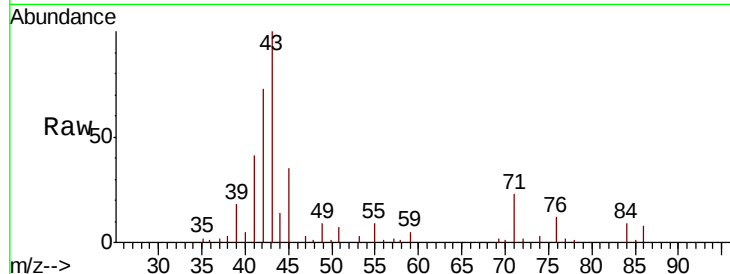




#15
Methvl Acetate
Concen: 1.220 ug/L
RT: 3.07 min Scan# 539
Delta R.T. 0.10 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

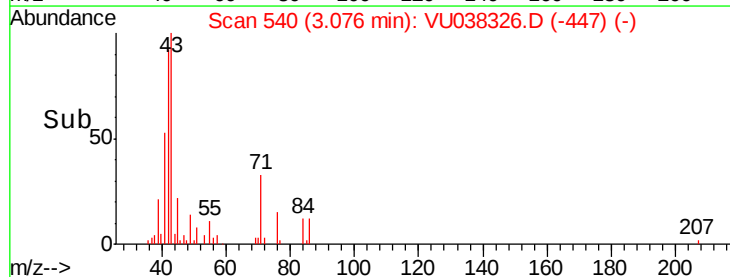
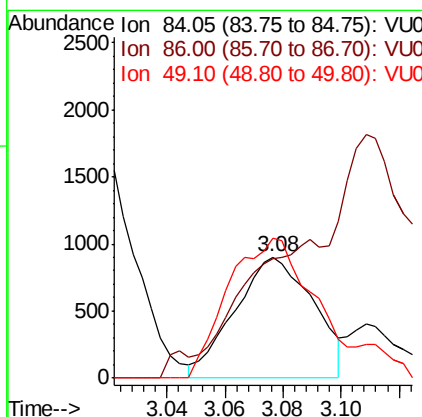
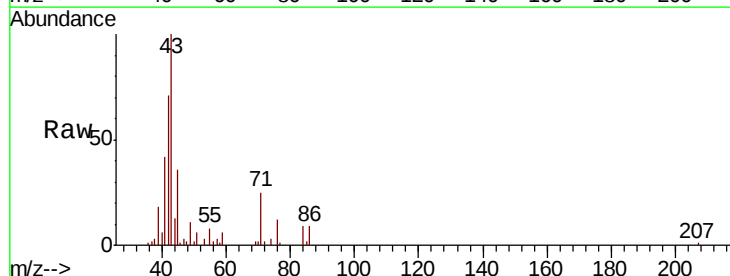
Instrument :
MSVOA_U
ClientSampled :

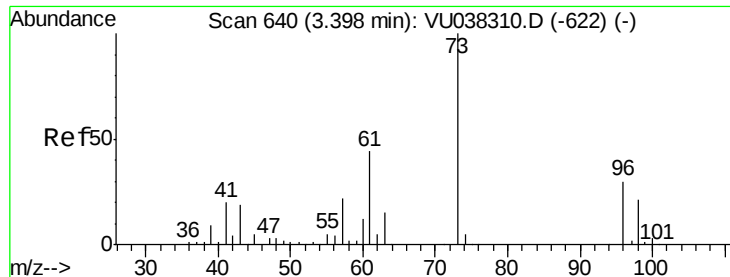
Tot Ion: 43 Resp: 14160
Ion Ratio Lower Upper
43 100
74 3.0 18.0 27.0#



#16
Methylene chloride
Concen: 0.071 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

Tgt Ion: 84 Resp: 1692
Ion Ratio Lower Upper
84 100
86 98.9 44.9 83.3#
49 115.4 92.0 170.9

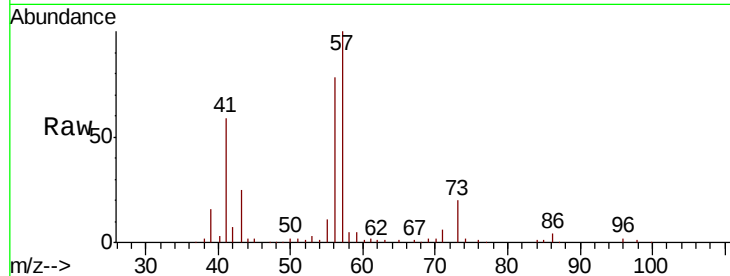




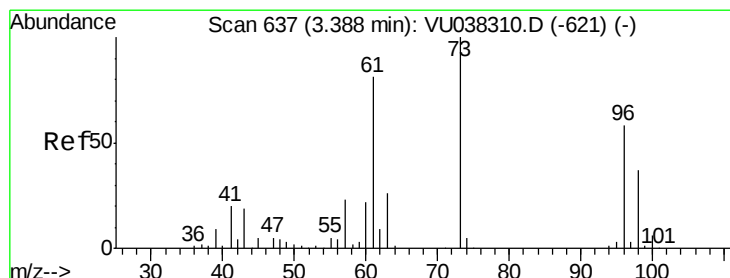
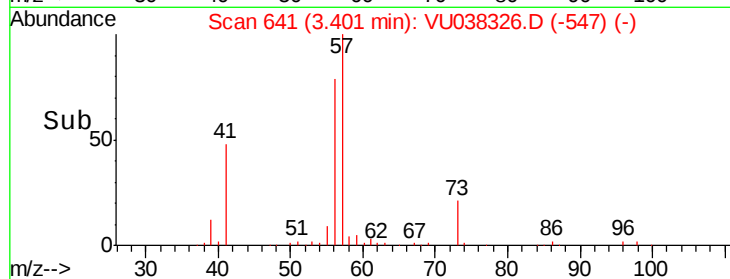
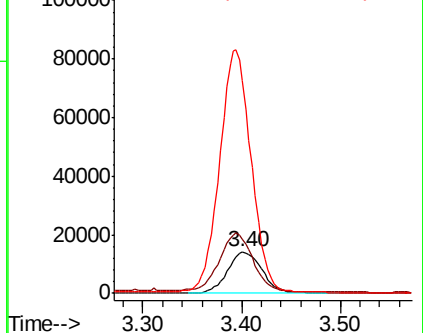
#17
Methvl tert-butvl Ether
Concen: 0.620 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 73 Resp: 35067
Ion Ratio Lower Upper
73 100
43 134.3 16.9 25.3#
57 525.4 18.2 27.2#

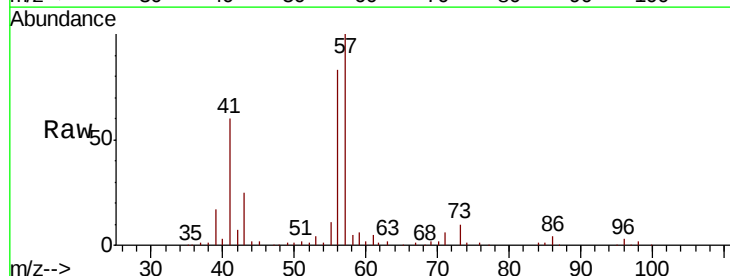


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

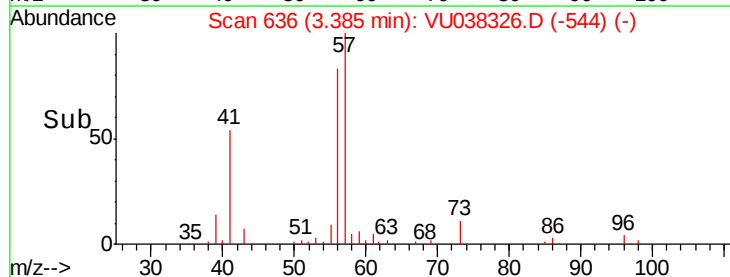
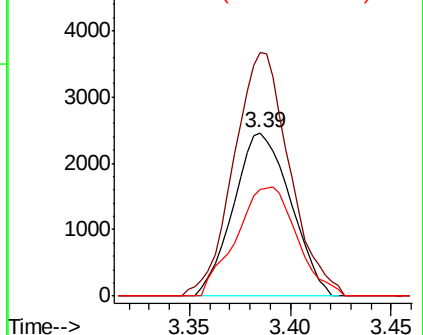


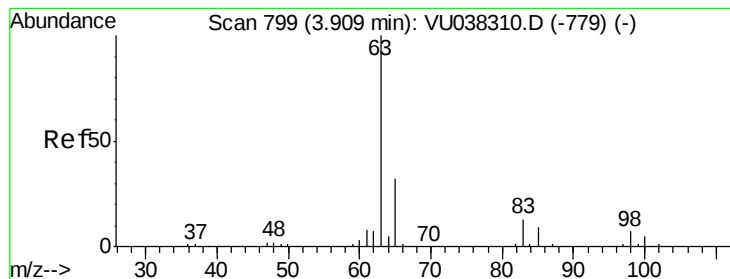
#18
trans-1,2-Dichloroethene
Concen: 0.219 ug/L
RT: 3.39 min Scan# 636
Delta R.T. -0.00 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

Tgt Ion: 96 Resp: 4853
Ion Ratio Lower Upper
96 100
61 148.9 102.1 189.5
98 65.2 45.6 84.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.131 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

Instrument :

MSVOA_U

ClientSampleId :

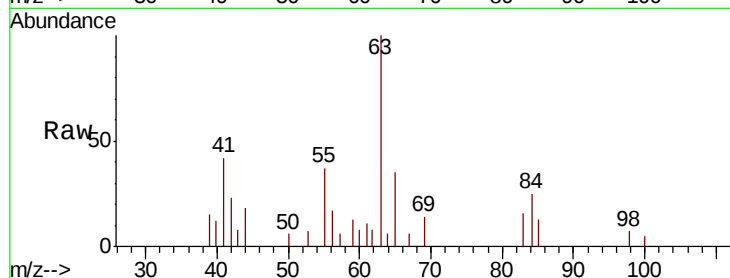
Tot Ion: 63 Resp: 5692

Ion Ratio Lower Upper

63 100

65 35.3 22.5 41.7

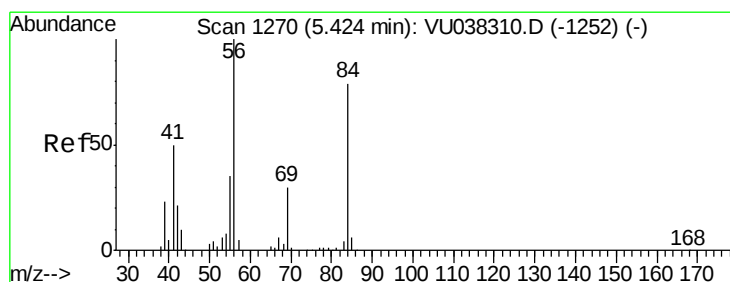
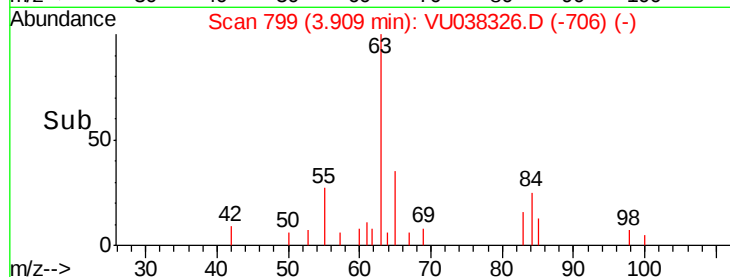
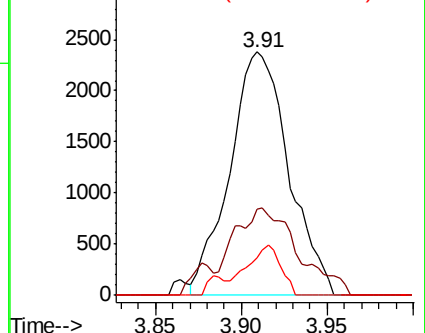
83 15.5 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU038310.D (-779) (-)

Ion 65.10 (64.80 to 65.80): VU038310.D (-779) (-)

Ion 83.05 (82.75 to 83.75): VU038310.D (-779) (-)



#30

Cyclohexane

Concen: 2.833 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

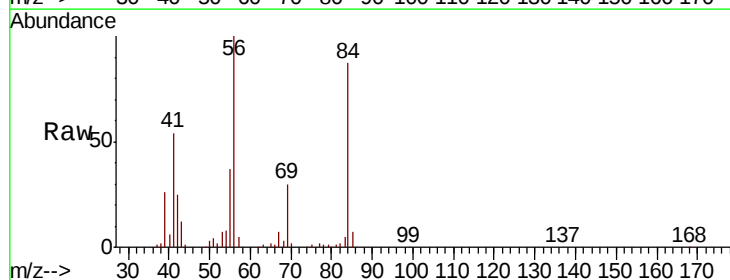
Tgt Ion: 56 Resp: 112216

Ion Ratio Lower Upper

56 100

69 30.4 24.2 36.4

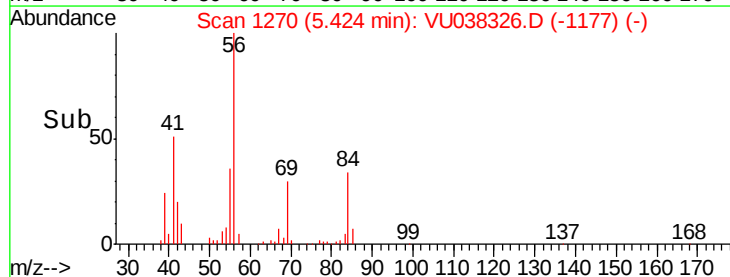
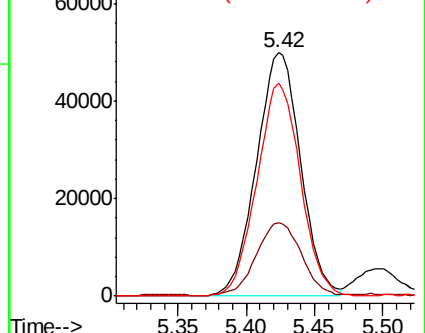
84 86.1 68.5 102.7

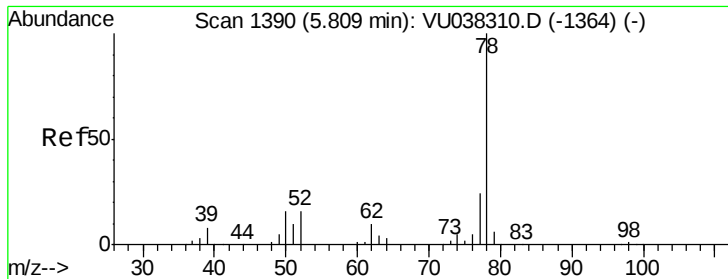


Abundance Ion 56.10 (55.80 to 56.80): VU038310.D (-1252) (-)

Ion 69.15 (68.85 to 69.85): VU038310.D (-1252) (-)

Ion 84.15 (83.85 to 84.85): VU038310.D (-1252) (-)





#33

Benzene

Concen: 2.437 ug/L

RT: 5.81 min Scan# 1390

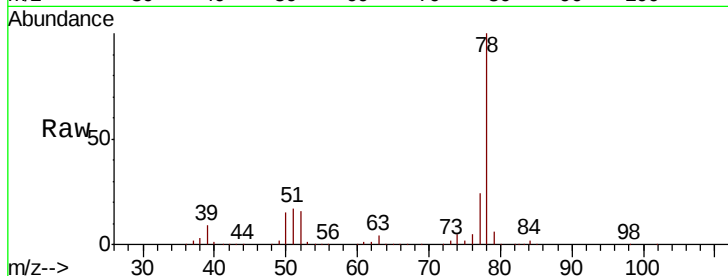
Delta R.T. -0.00 min

Lab File: VU038326.D

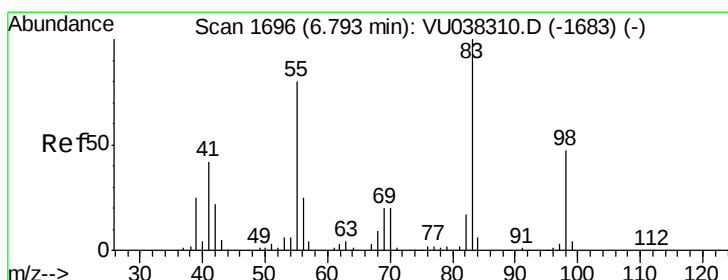
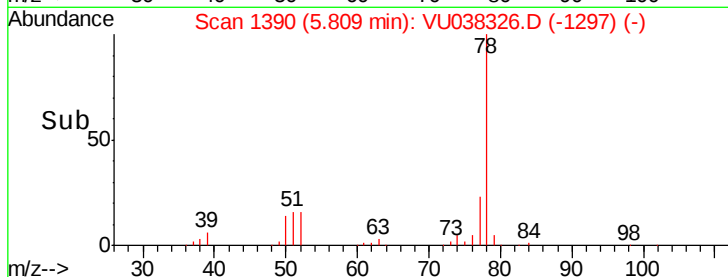
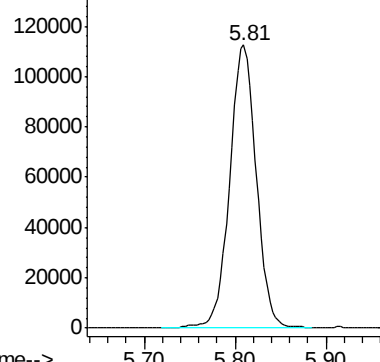
Acq: 27 May 2020 17:19

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MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 228509



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 1.557 ug/L

RT: 6.79 min Scan# 1696

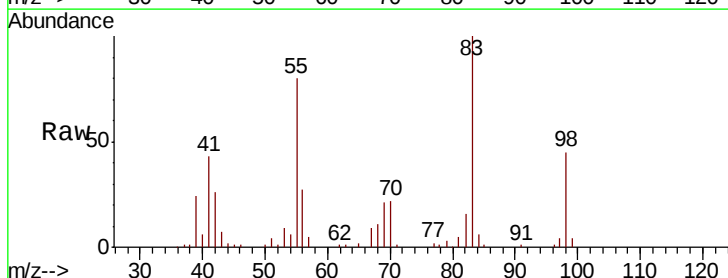
Delta R.T. -0.00 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

Tgt Ion: 83 Resp: 59143

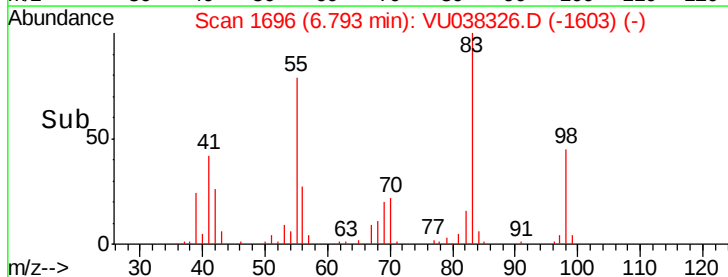
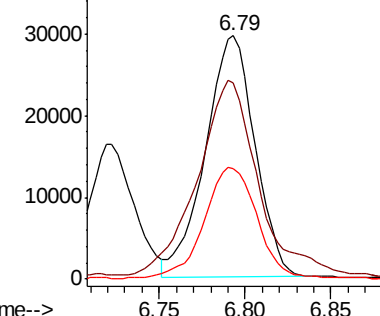
Ion	Ratio	Lower	Upper
83	100		
55	101.0	66.7	100.1#
98	50.0	39.4	59.2

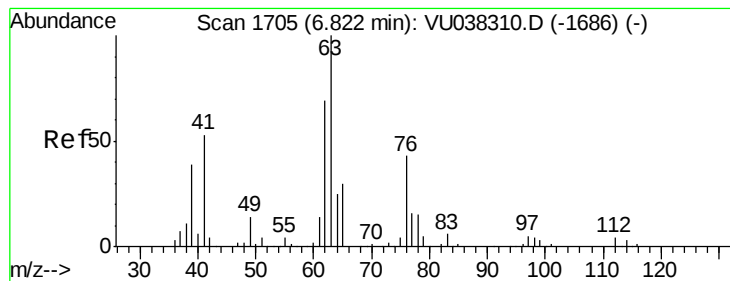


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.561 ug/L

RT: 6.73 min Scan# 1675

Delta R.T. -0.10 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

Instrument :

MSVOA_U

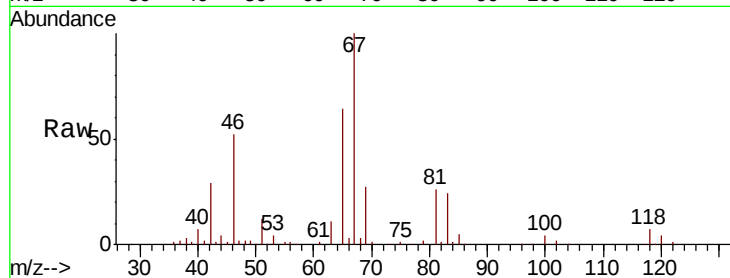
ClientSampleId :

Tot Ion: 63 Resp: 14278

Ion Ratio Lower Upper

63 100

112 2.3 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU038310.D (-1686) (-)

Ion 112.10 (111.80 to 112.80): VU038310.D (-1686) (-)

6.73

8000

6000

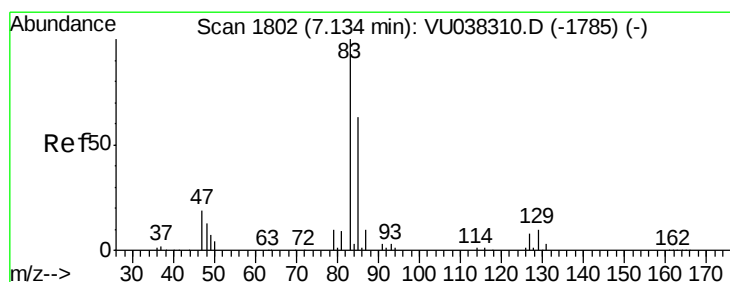
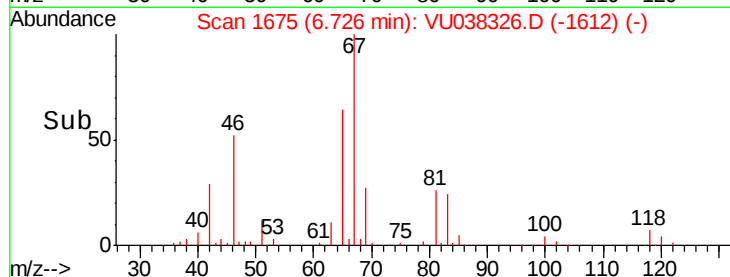
4000

2000

0

6.65 6.70 6.75

Time-->



#38

Bromodichloromethane

Concen: 0.229 ug/L

RT: 7.19 min Scan# 1818

Delta R.T. 0.05 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

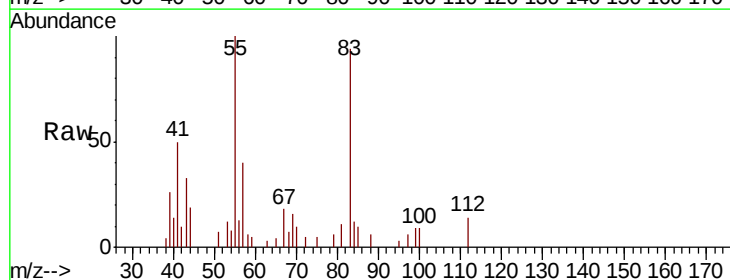
Tgt Ion: 83 Resp: 6751

Ion Ratio Lower Upper

83 100

85 11.0 44.6 82.8#

127 0.0 6.4 9.6#



Abundance Ion 82.95 (82.65 to 83.65): VU038310.D (-1785) (-)

Ion 85.00 (84.70 to 85.70): VU038310.D (-1785) (-)

Ion 126.90 (126.60 to 127.60): VU038310.D (-1785) (-)

7.19

4000

3000

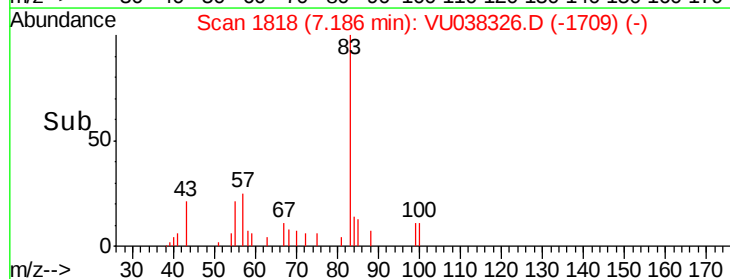
2000

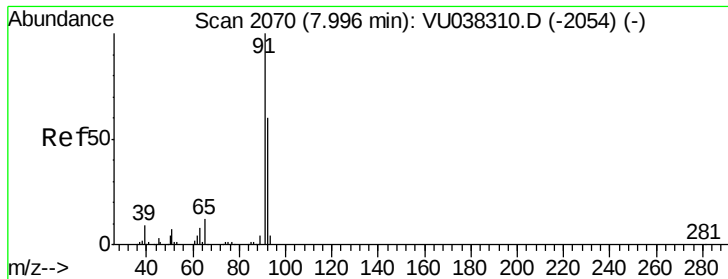
1000

0

7.10 7.15 7.20 7.25

Time-->





#42

Toluene

Concen: 0.357 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

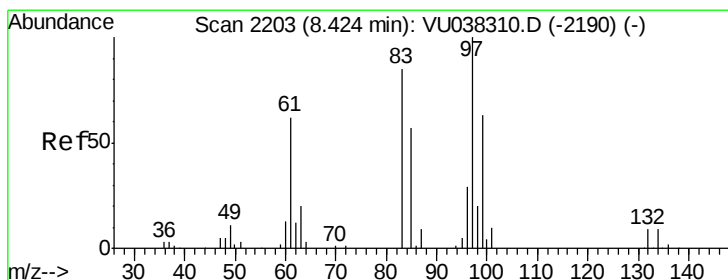
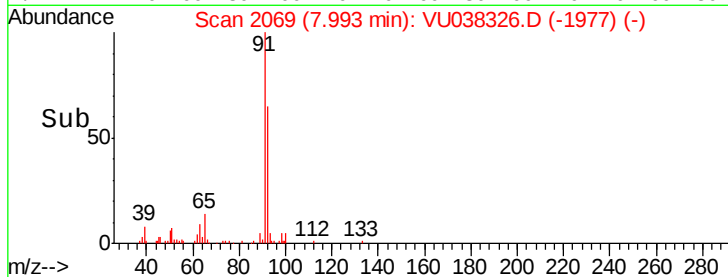
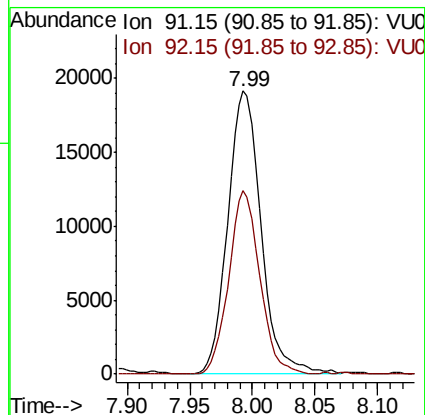
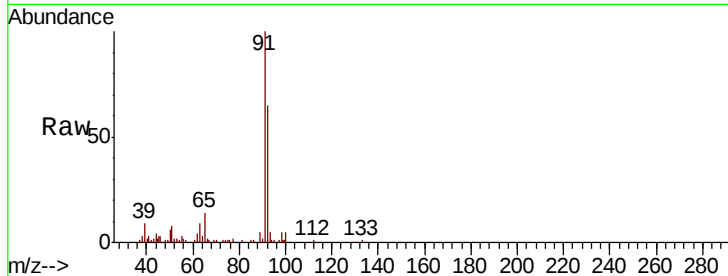
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 35360

Ion Ratio Lower Upper

91 100

92 65.0 40.9 75.9



#45

1,1,2-Trichloroethane

Concen: 0.226 ug/L

RT: 8.39 min Scan# 2193

Delta R.T. -0.03 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

Tgt Ion: 97 Resp: 3999

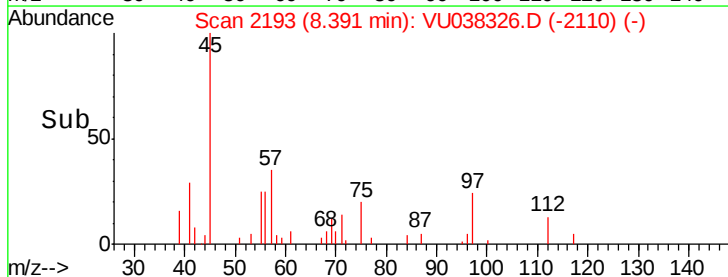
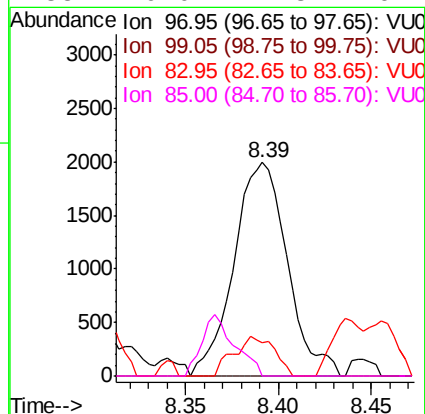
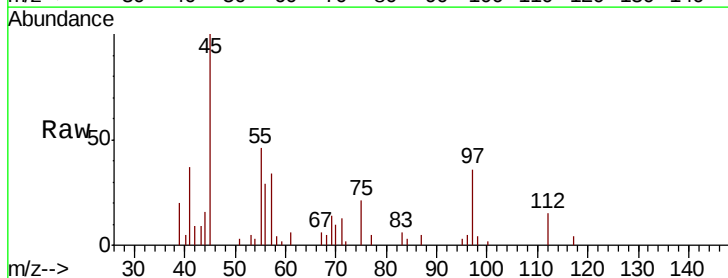
Ion Ratio Lower Upper

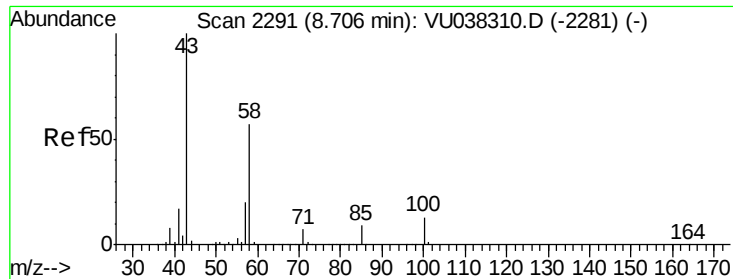
97 100

99 0.0 44.0 81.6#

83 15.6 59.6 110.8#

85 0.0 41.3 76.7#

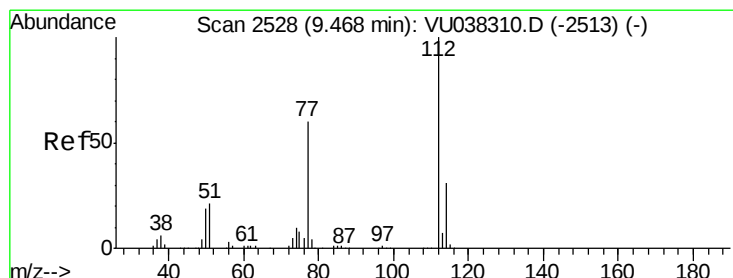
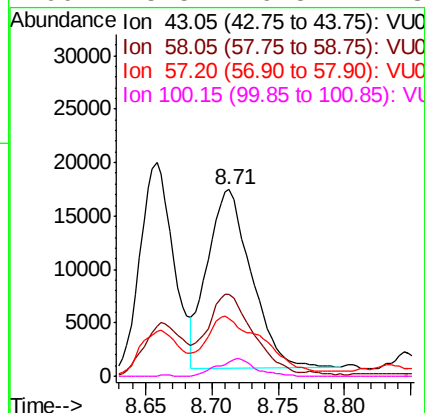
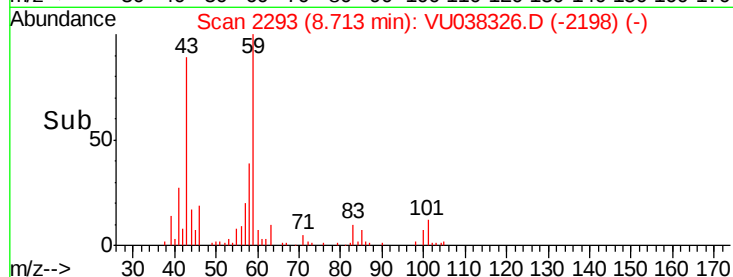
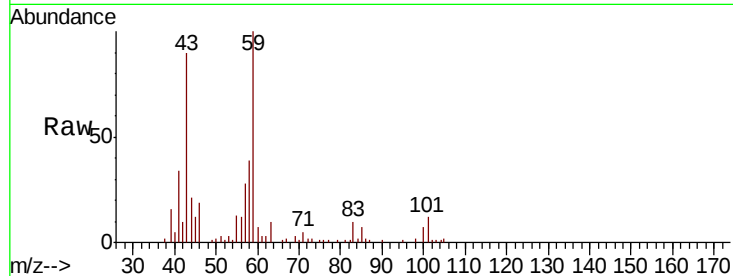




#48
2-Hexanone
Concen: 2.975 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.01 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

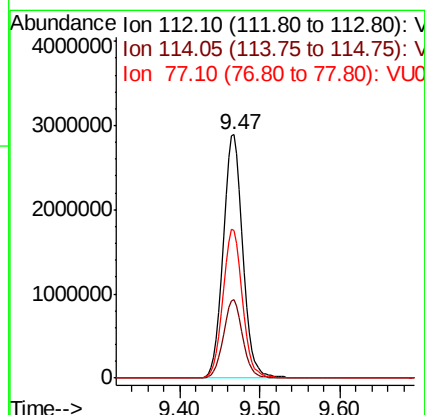
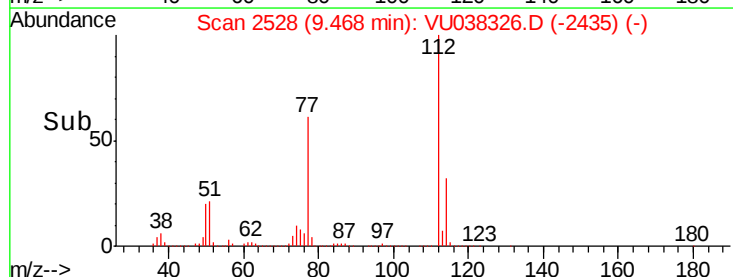
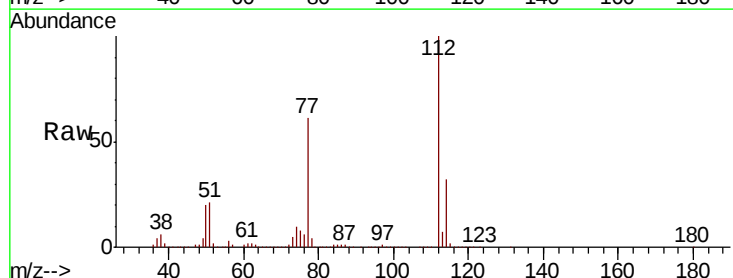
Instrument :
MSVOA_U
ClientSampleId :

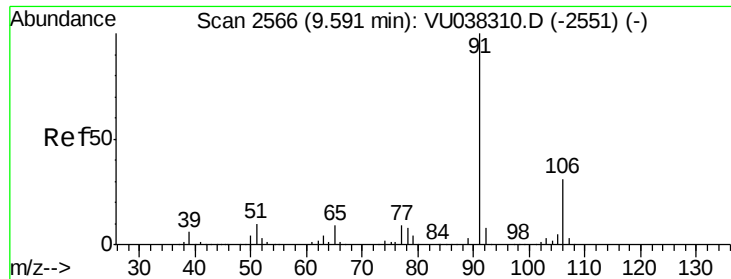
Tot Ion:	43	Resp:	38456
Ion	Ratio	Lower	Upper
43	100		
58	48.4	45.2	67.8
57	40.0	15.5	23.3#
100	8.5	9.5	14.3#



#51
Chlorobenzene
Concen: 79.962 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

Tgt Ion:	112	Resp:	4912307
Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	60.9	49.9	74.9

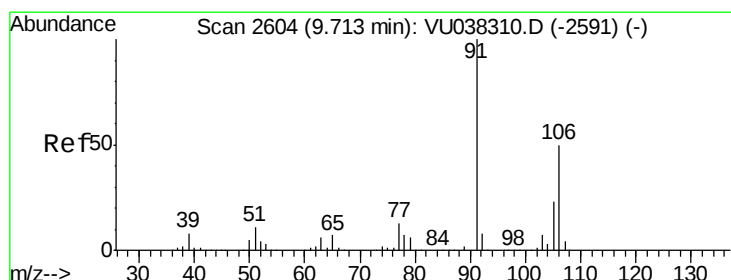
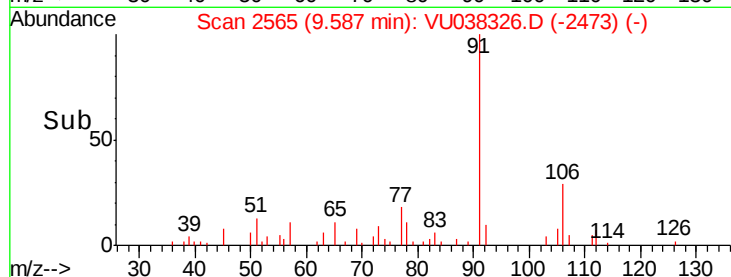
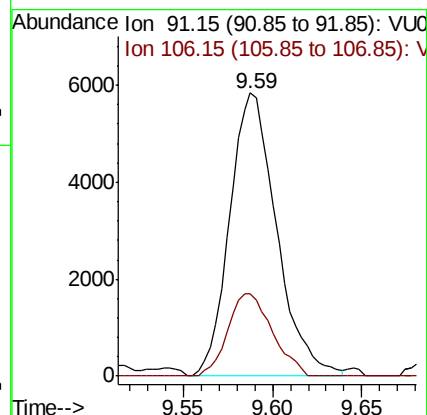
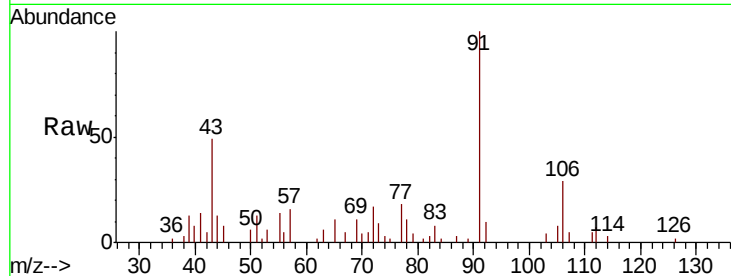




#52
Ethylbenzene
Concen: 0.100 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

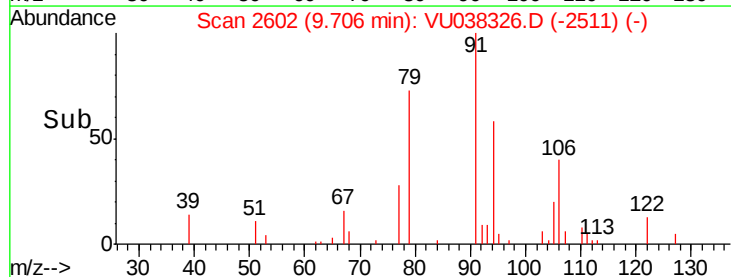
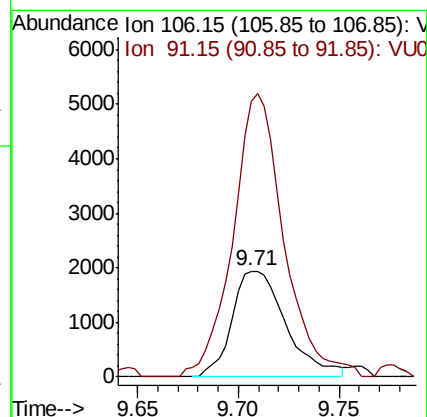
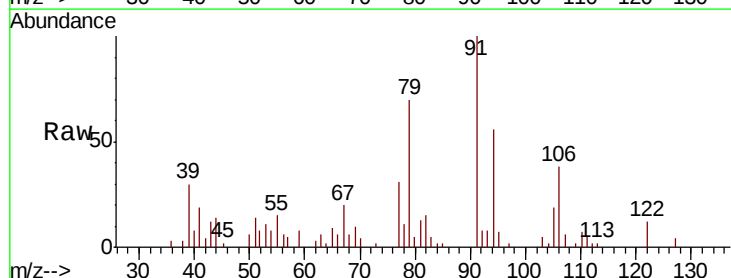
Instrument :
MSVOA_U
ClientSampled :

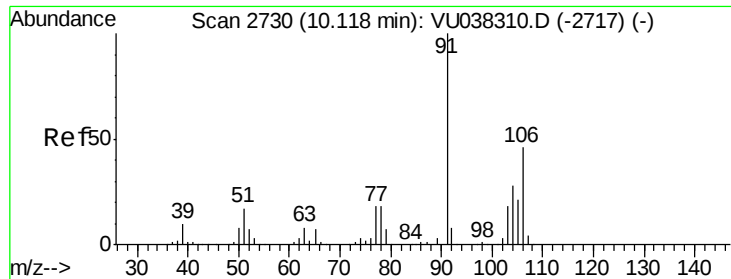
Tot Ion: 91 Resp: 10670
Ion Ratio Lower Upper
91 100
106 29.2 21.8 40.4



#53
m,p-Xylene
Concen: 0.088 ug/L
RT: 9.71 min Scan# 2602
Delta R.T. -0.01 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

Tgt Ion: 106 Resp: 3625
Ion Ratio Lower Upper
106 100
91 261.0 142.1 263.9

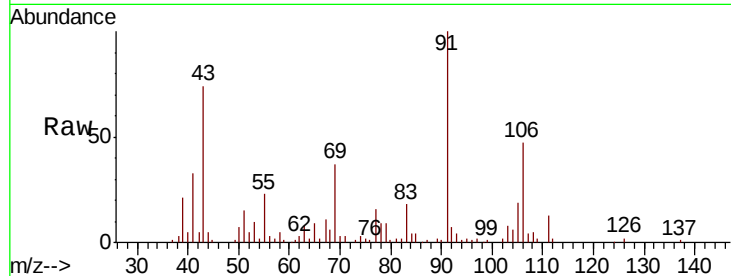




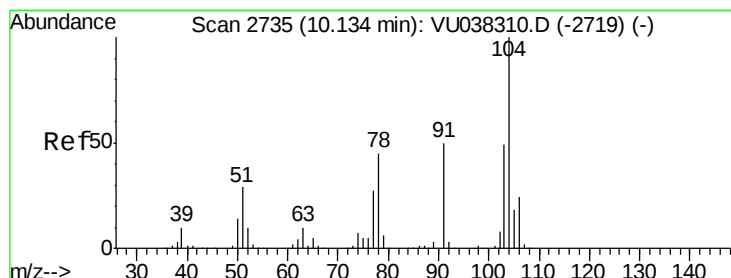
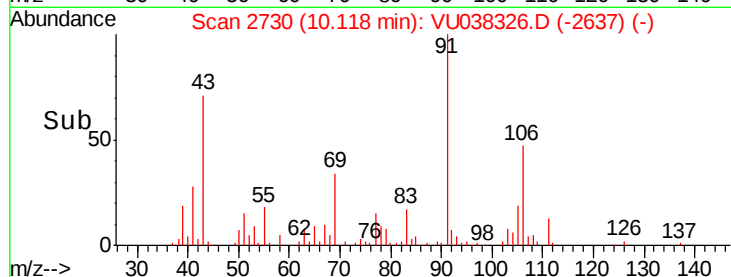
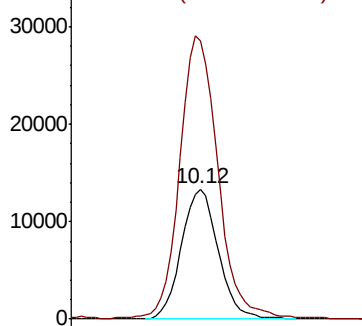
#54
o-Xylene
Concen: 0.551 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 21897
Ion Ratio Lower Upper
106 100
91 213.3 148.5 275.9

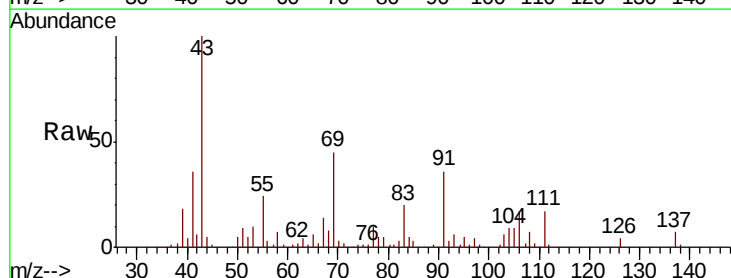


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

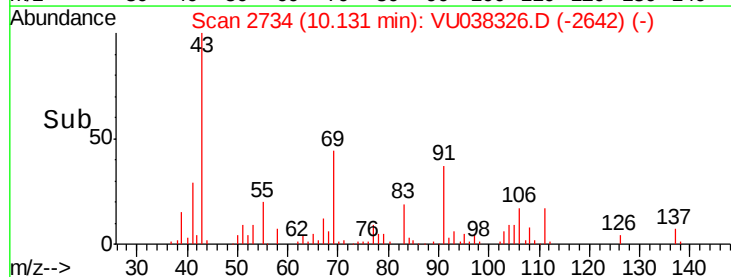
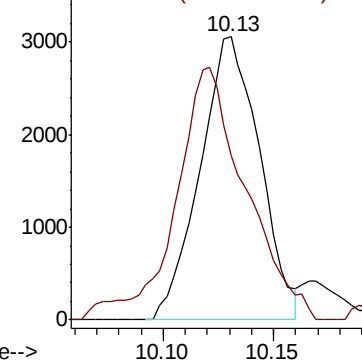


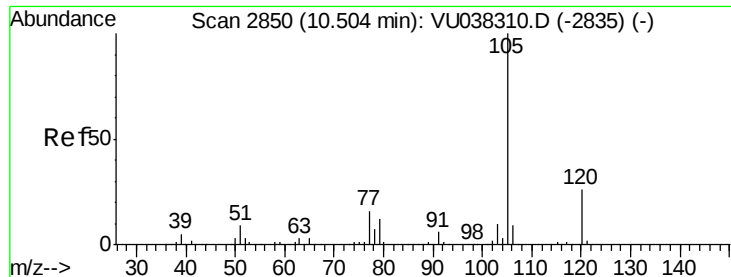
#55
Styrene
Concen: 0.086 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU038326.D
Acq: 27 May 2020 17:19

Tgt Ion:104 Resp: 5724
Ion Ratio Lower Upper
104 100
78 57.8 32.3 59.9



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





#56

Isopropylbenzene

Concen: 71.762 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

Instrument :

MSVOA_U

ClientSampled :

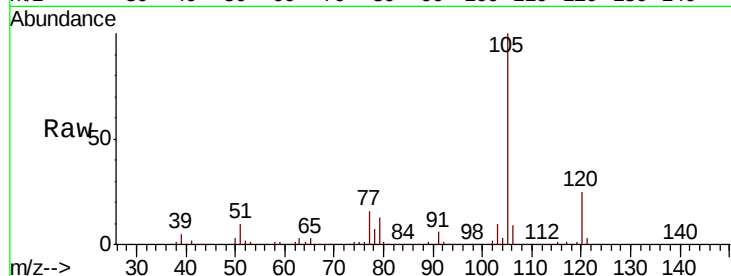
Tot Ion:105 Resp: 7328092

Ion Ratio Lower Upper

105 100

120 25.5 21.0 31.6

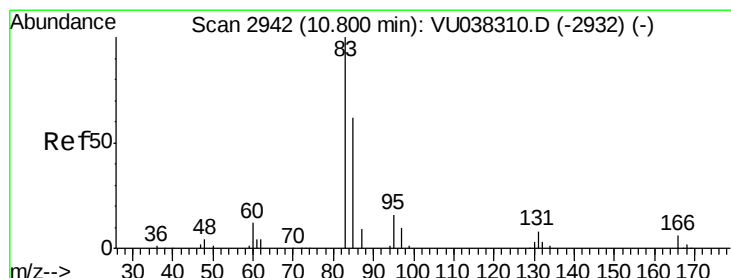
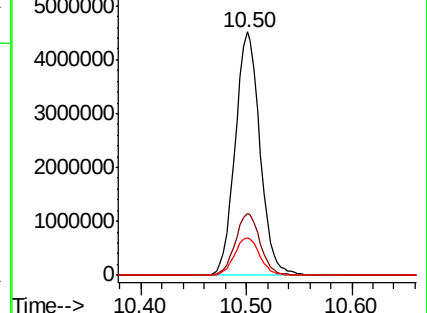
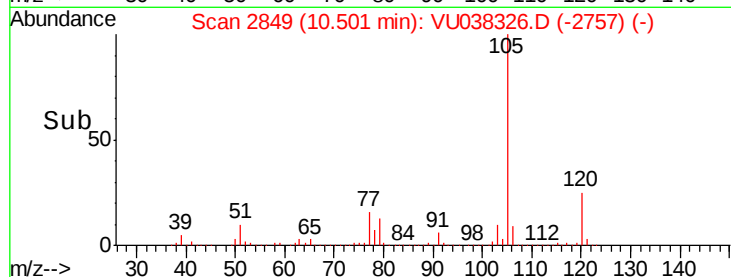
77 15.8 13.0 19.4



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.285 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.01 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

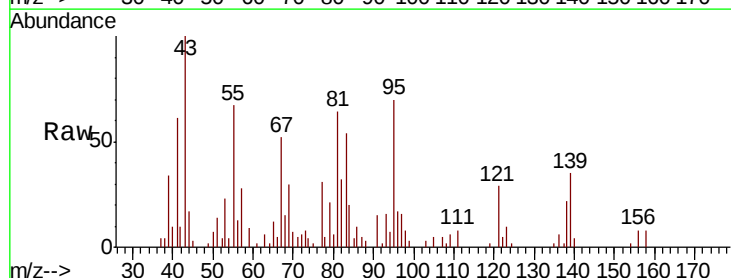
Tgt Ion: 83 Resp: 6410

Ion Ratio Lower Upper

83 100

85 6.9 47.0 87.2#

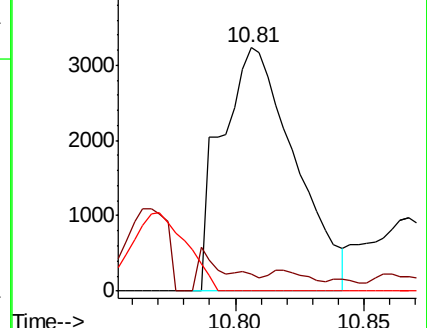
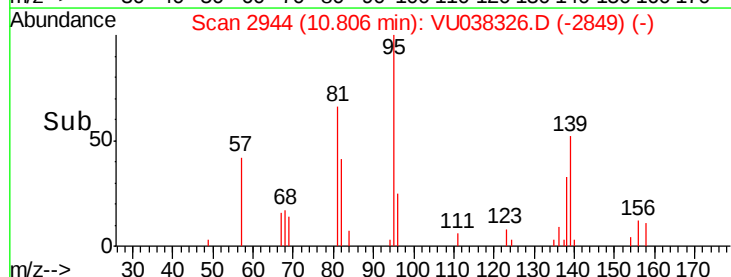
131 0.0 7.7 11.5#

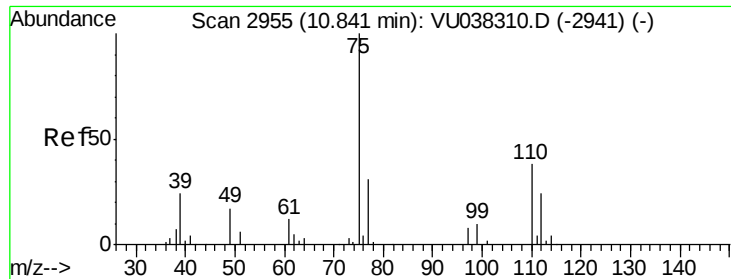


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

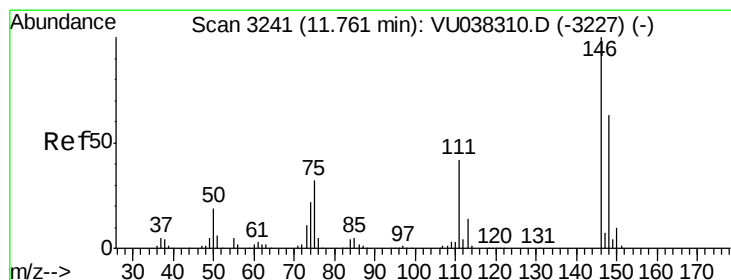
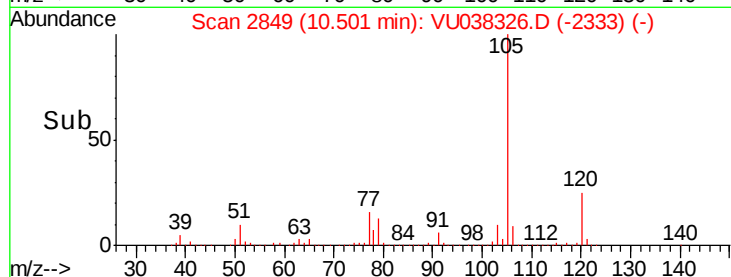
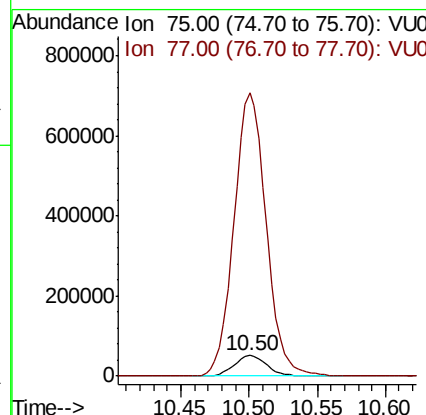
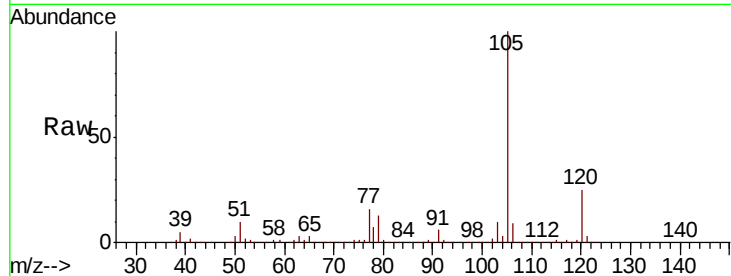




#59
 1,2,3-Trichloropropane
 Concen: 5.004 ug/L
 RT: 10.50 min Scan# 2849
 Delta R.T. -0.34 min
 Lab File: VU038326.D
 Acq: 27 May 2020 17:19

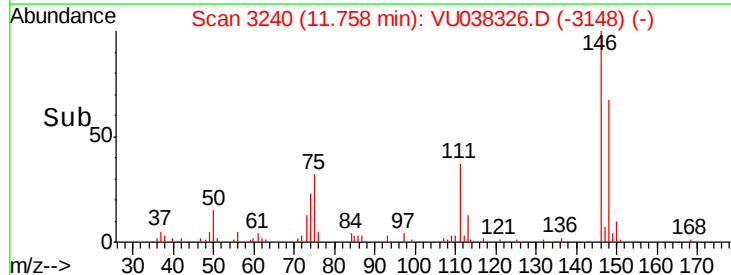
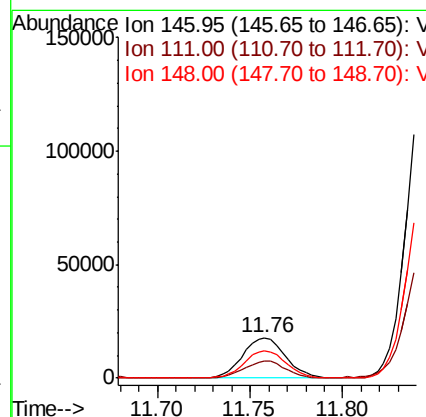
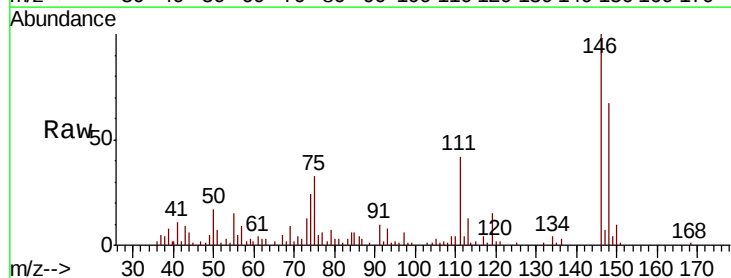
Instrument :
 MSVOA_U
 ClientSampleId :

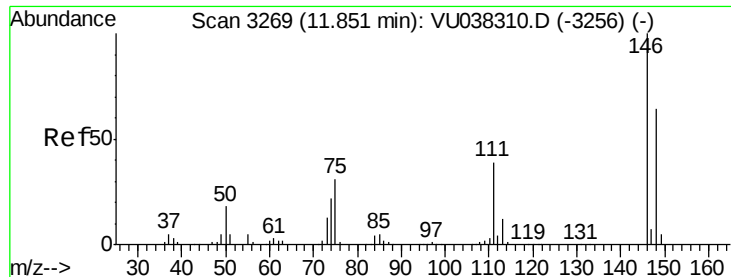
Tot Ion: 75 Resp: 85548
 Ion Ratio Lower Upper
 75 100
 77 1354.2 25.4 38.0#



#62
 1,3-Dichlorobenzene
 Concen: 0.570 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU038326.D
 Acq: 27 May 2020 17:19

Tgt Ion: 146 Resp: 28540
 Ion Ratio Lower Upper
 146 100
 111 42.3 28.6 53.2
 148 67.0 45.2 84.0





#63

1,4-Dichlorobenzene

Concen: 5.583 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

Instrument :

MSVOA_U

ClientSampleId :

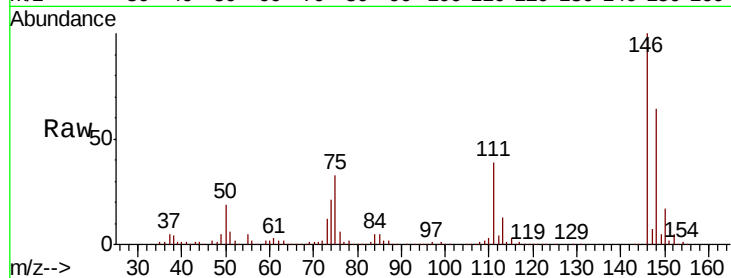
Tot Ion:146 Resp: 283146

Ion Ratio Lower Upper

146 100

111 39.0 27.2 50.6

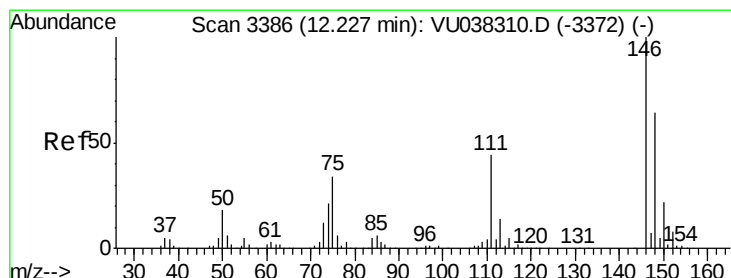
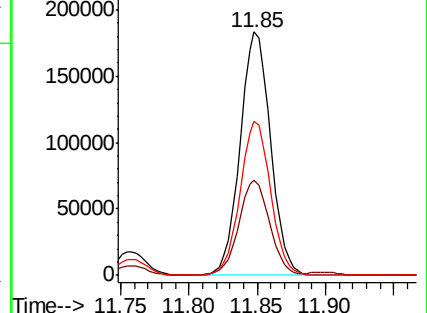
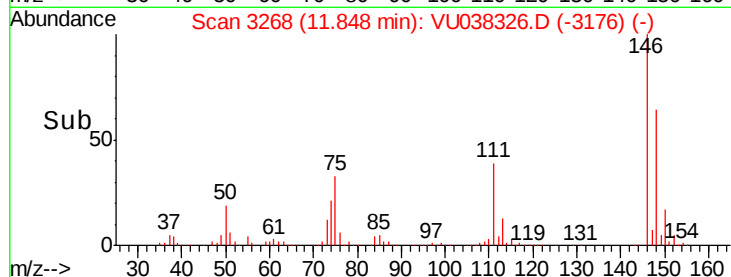
148 63.5 43.8 81.3



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



#65

1,2-Dichlorobenzene

Concen: 4.164 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

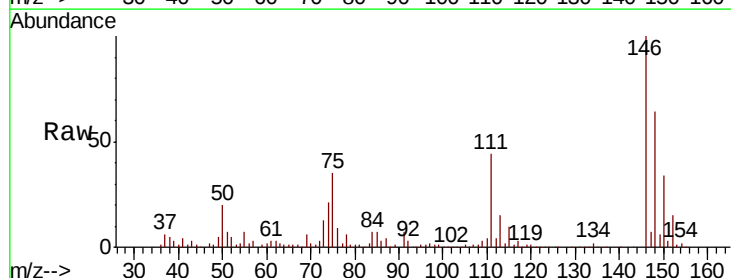
Tgt Ion:146 Resp: 200507

Ion Ratio Lower Upper

146 100

111 44.2 35.3 52.9

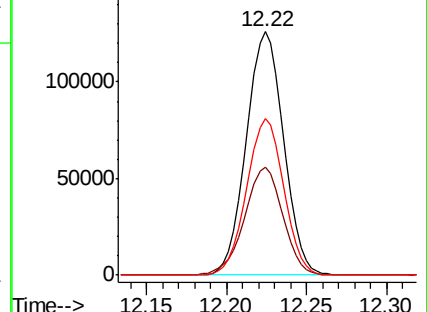
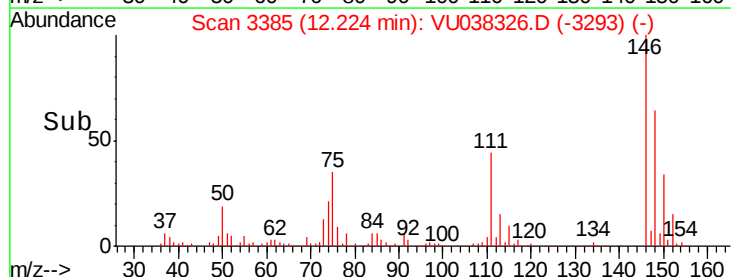
148 64.1 51.0 76.4

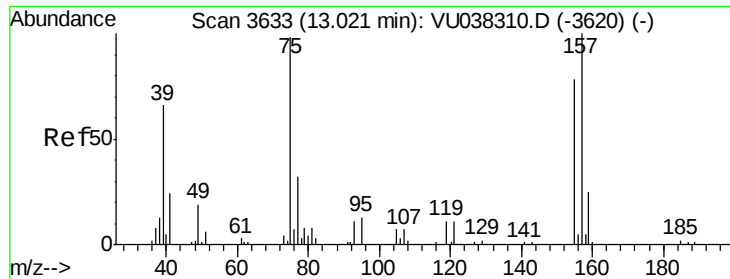


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dibromo-3-chloropropane

Concen: 0.508 ug/L

RT: 13.00 min Scan# 3625

Delta R.T. -0.03 min

Lab File: VU038326.D

Acq: 27 May 2020 17:19

Instrument :

MSVOA_U

ClientSampleId :

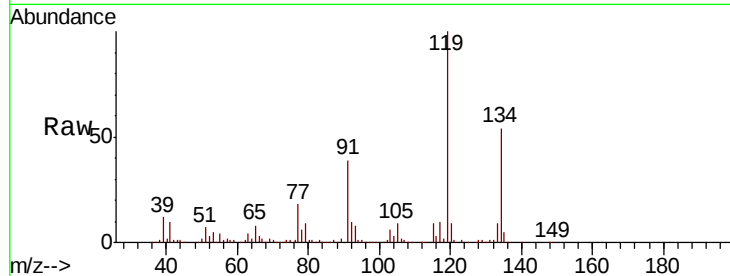
Tot Ion: 75 Resp: 2001

Ion Ratio Lower Upper

75 100

155 0.0 58.2 87.2#

157 0.0 72.9 109.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

