

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\
 Data File : VU040849.D
 Acq On : 20 Oct 2020 15:37
 Operator : SY/MD
 Sample : L4420-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ9

Quant Time: Oct 20 23:58:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 23:49:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	130387	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	138235	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	57210	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	42588	3.94	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.80%
7) Chloroethane-d5	1.92	69	36275	4.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.00%
11) 1,1-Dichloroethene-d2	2.58	63	65509	3.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.00%
20) 2-Butanone-d5	4.65	46	160399	46.39	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	92.78%
24) Chloroform-d	5.08	84	82692	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.20%
26) 1,2-Dichloroethane-d4	5.72	65	54210	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
32) Benzene-d6	5.74	84	154411	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.80%
36) 1,2-Dichloropropane-d6	6.70	67	52523	4.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.80%
41) Toluene-d8	7.91	98	122376	3.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.40%
43) trans-1,3-Dichloropropene-	8.19	79	20337	3.88	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.60%
46) 2-Hexanone-d5	8.64	63	112204	41.53	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.06%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	47986	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	50419	4.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	1096	0.099 ug/L #	65
8) Chloroethane	1.95	64	468	0.063 ug/L #	58
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	481	0.044 ug/L #	20
12) 1,1-Dichloroethene	2.58	96	539	0.058 ug/L #	1
13) Acetone	2.66	43	1980	0.739 ug/L	89
22) cis-1,2-Dichloroethene	4.69	96	2298	0.219 ug/L	79
25) Chloroform	5.11	83	6544	0.318 ug/L	88
31) Carbon tetrachloride	5.54	117	3093	0.195 ug/L	99
33) Benzene	5.74	78	1269	0.029 ug/L	100
34) Trichloroethene	6.55	95	10613	0.922 ug/L	91
35) Methylcyclohexane	6.70	83	12419	0.761 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	6165	0.498 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1470	0.087 ug/L #	54
44) trans-1,3-Dichloropropene	8.19	75	830	0.053 ug/L #	45
47) Tetrachloroethene	8.56	164	6446	0.785 ug/L	86
49) Dibromochloromethane	8.56	129	5539	0.519 ug/L #	9
59) 1,2,3-Trichloropropane	11.80	75	8108	0.892 ug/L	97

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QLast Update : Tue Oct 20 23:49:45 2020
Response via : Initial Calibration

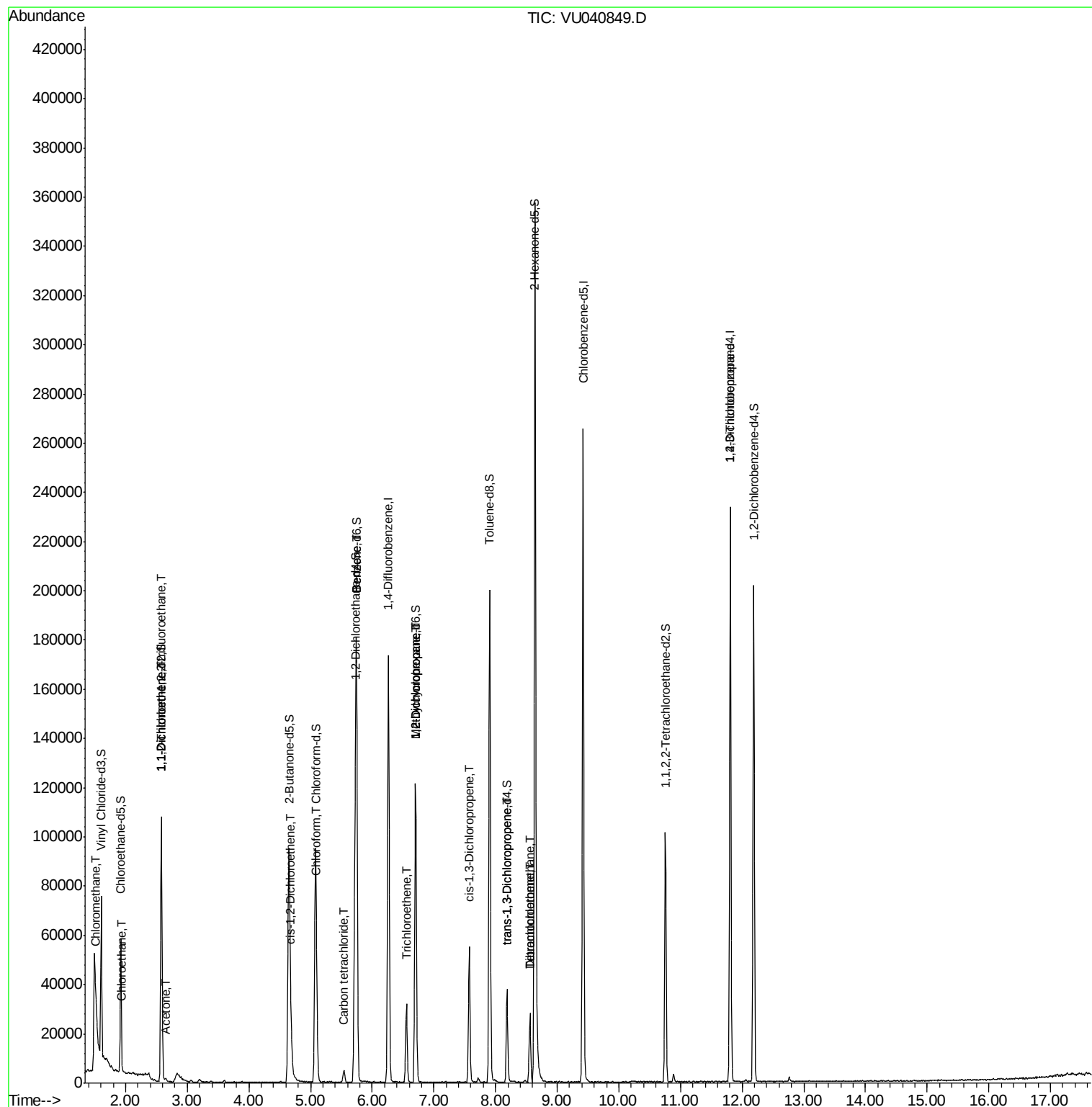
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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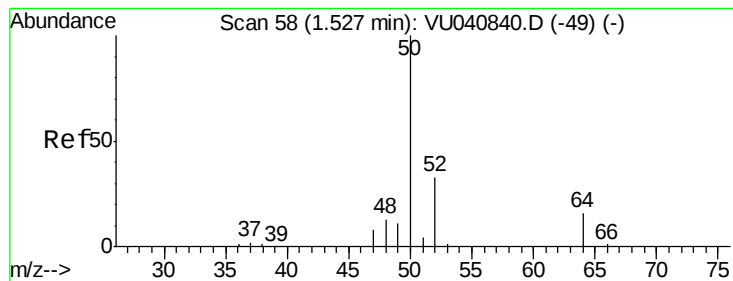
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.099 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU040849.D

Acq: 20 Oct 2020 15:37

Instrument :

MSVOA_U

ClientSampled :

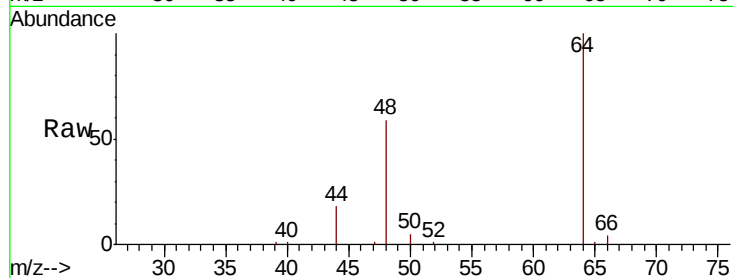
C0AJ9

Tot Ion: 50 Resp: 1096

Ion Ratio Lower Upper

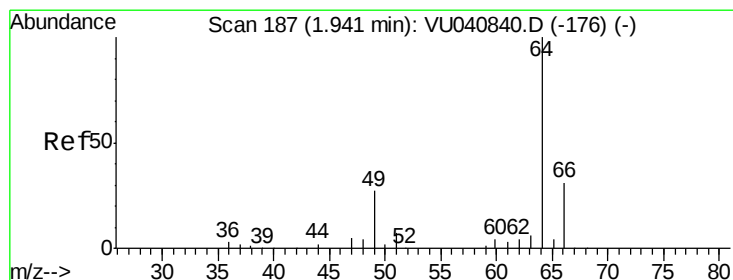
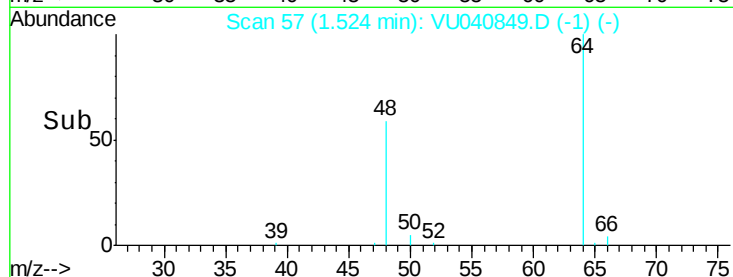
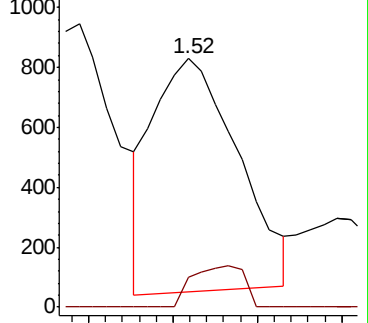
50 100

52 12.2 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#8

Chloroethane

Concen: 0.063 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.01 min

Lab File: VU040849.D

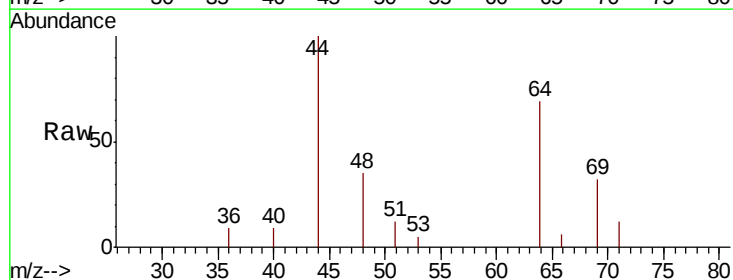
Acq: 20 Oct 2020 15:37

Tgt Ion: 64 Resp: 468

Ion Ratio Lower Upper

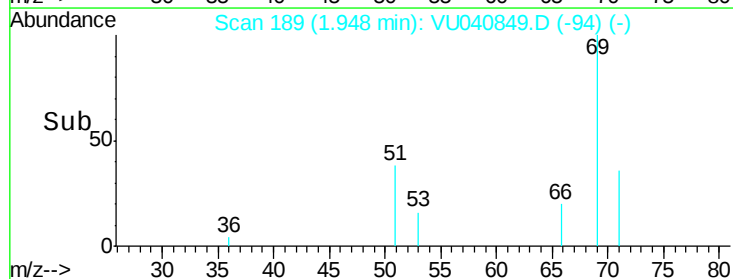
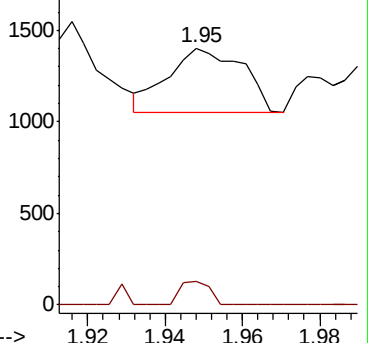
64 100

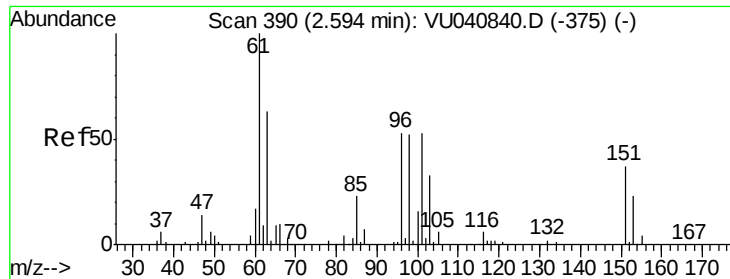
66 9.4 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.044 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040849.D

Acq: 20 Oct 2020 15:37

Instrument :

MSVOA_U

ClientSampleId :

C0AJ9

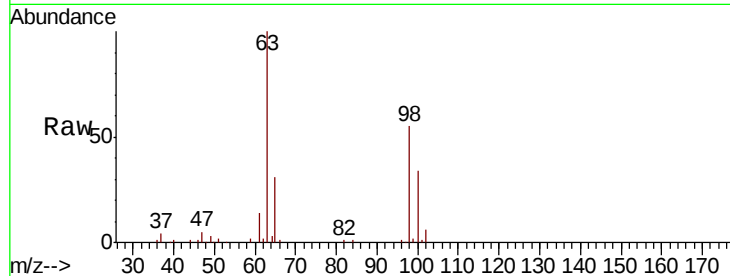
Tot Ion:101 Resp: 481

Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

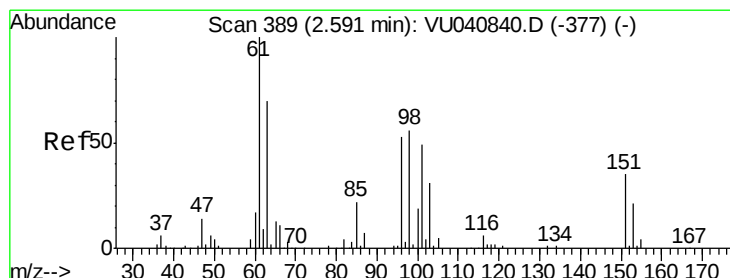
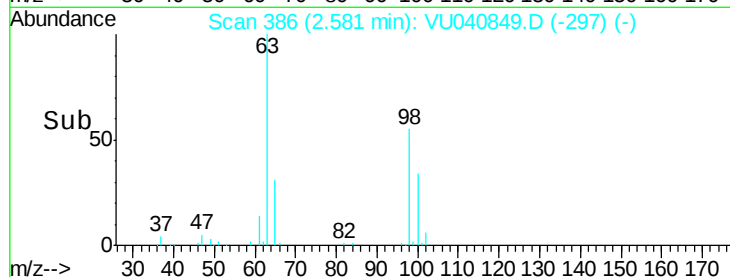
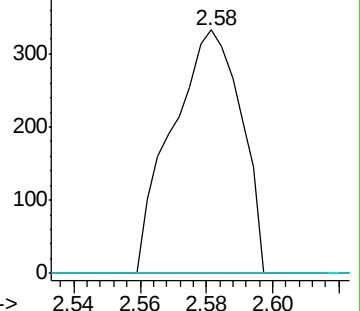
151 0.0 58.0 87.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.058 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040849.D

Acq: 20 Oct 2020 15:37

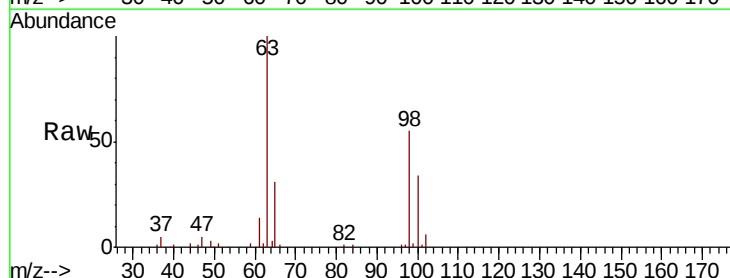
Tgt Ion: 96 Resp: 539

Ion Ratio Lower Upper

96 100

61 924.7 128.8 239.2#

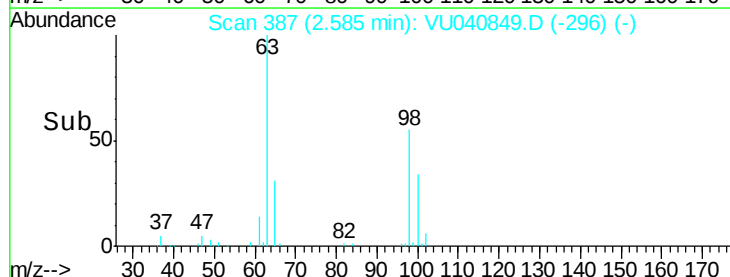
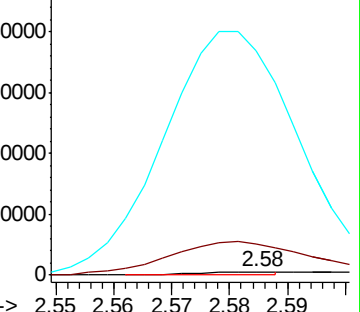
63 6667.1 84.6 157.2#

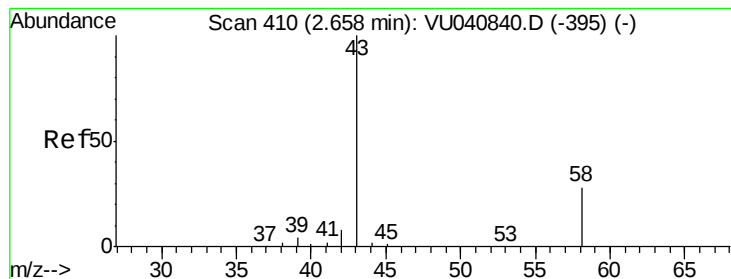


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.739 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU040849.D

Acq: 20 Oct 2020 15:37

Instrument :

MSVOA_U

ClientSampleId :

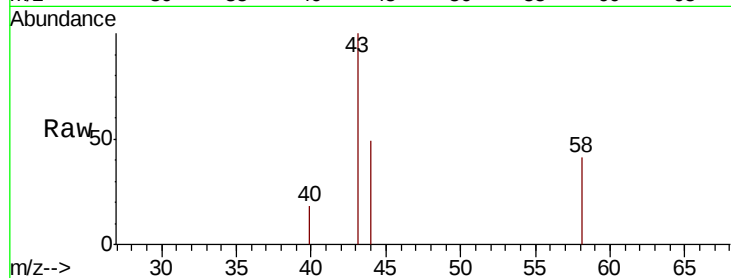
C0AJ9

Tot Ion: 43 Resp: 1980

Ion Ratio Lower Upper

43 100

58 24.4 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040849.D (-317) (-)

Ion 58.05 (57.75 to 58.75): VU040849.D (-317) (-)

2.66

800

600

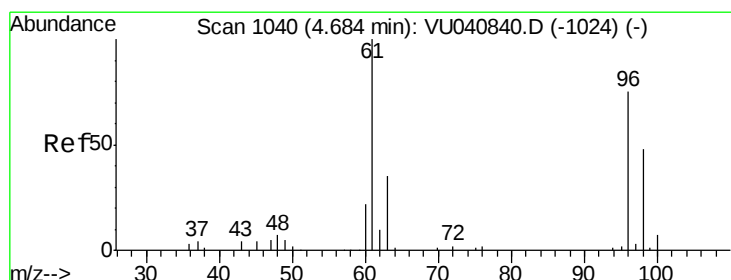
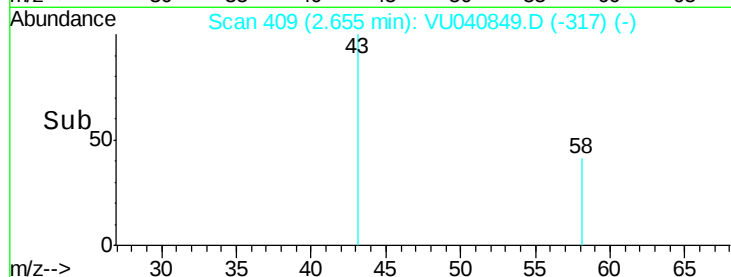
400

200

0

Time-->

2.60 2.65 2.70



#22

cis-1,2-Dichloroethene

Concen: 0.219 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040849.D

Acq: 20 Oct 2020 15:37

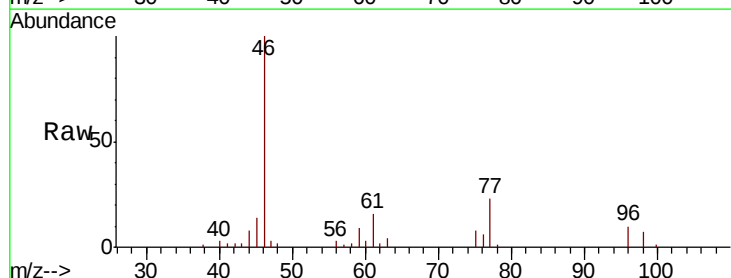
Tgt Ion: 96 Resp: 2298

Ion Ratio Lower Upper

96 100

61 168.6 99.8 185.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040849.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040849.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040849.D (-947) (-)

4.69

2000

1500

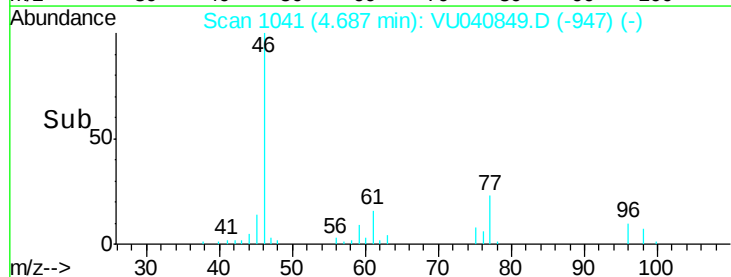
1000

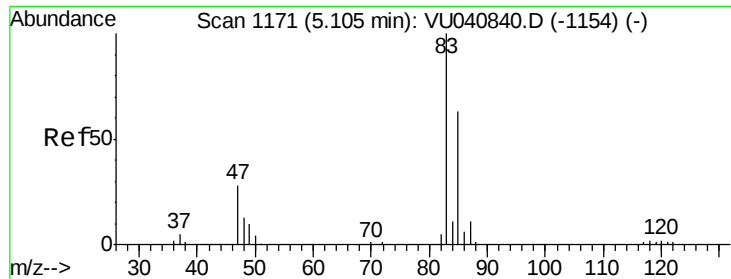
500

0

Time-->

4.65 4.70

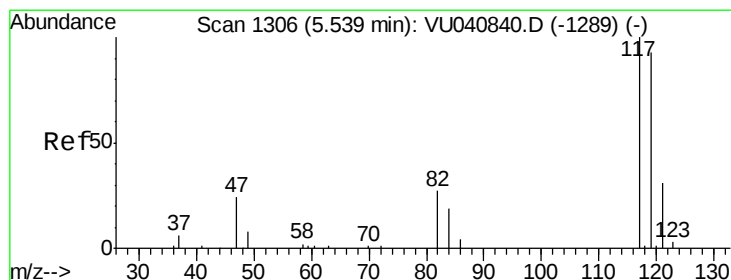
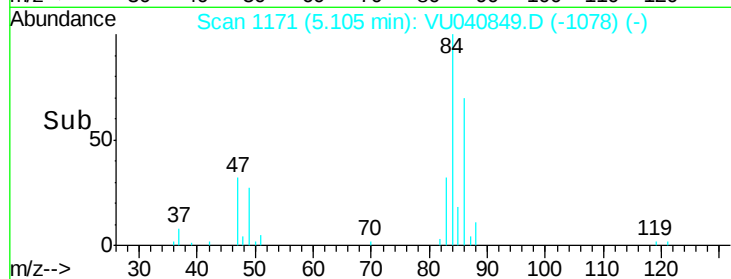
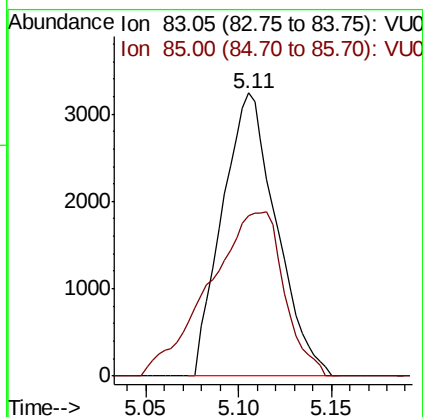
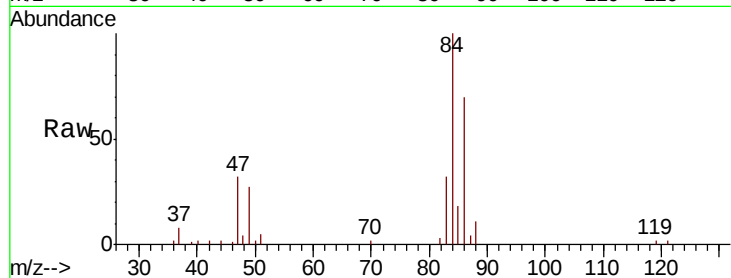




#25
Chloroform
Concen: 0.318 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040849.D
Acq: 20 Oct 2020 15:37

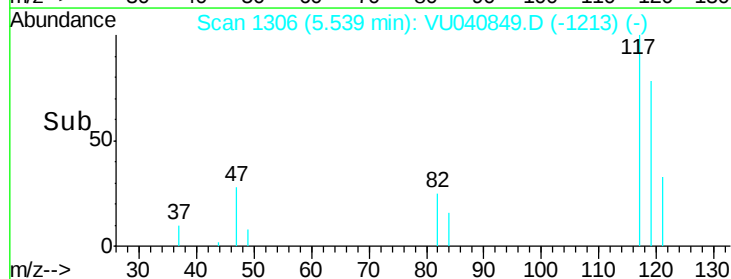
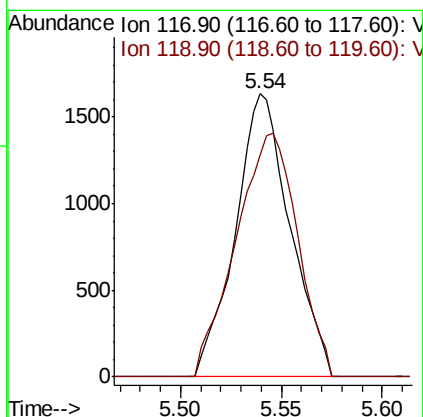
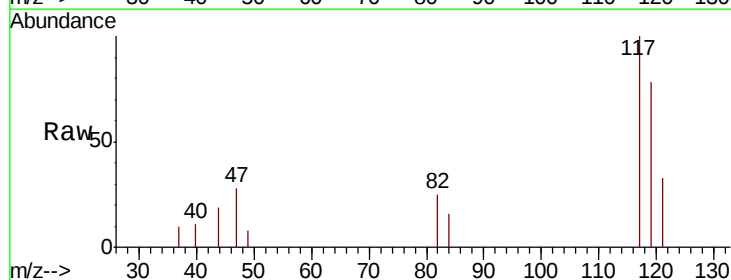
Instrument :
MSVOA_U
ClientSampleId :
C0AJ9

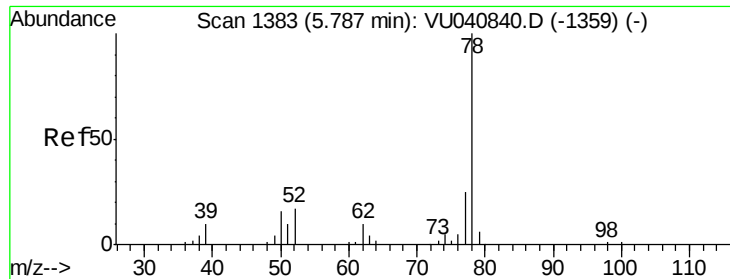
Tot Ion: 83 Resp: 6544
Ion Ratio Lower Upper
83 100
85 56.9 46.5 86.5



#31
Carbon tetrachloride
Concen: 0.195 ug/L
RT: 5.54 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU040849.D
Acq: 20 Oct 2020 15:37

Tgt Ion: 117 Resp: 3093
Ion Ratio Lower Upper
117 100
119 96.5 76.2 114.2





#33

Benzene

Concen: 0.029 ug/L

RT: 5.74 min Scan# 1369

Delta R.T. -0.04 min

Lab File: VU040849.D

Acq: 20 Oct 2020 15:37

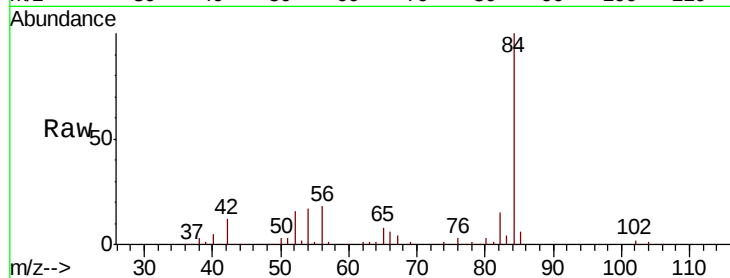
Instrument :

MSVOA_U

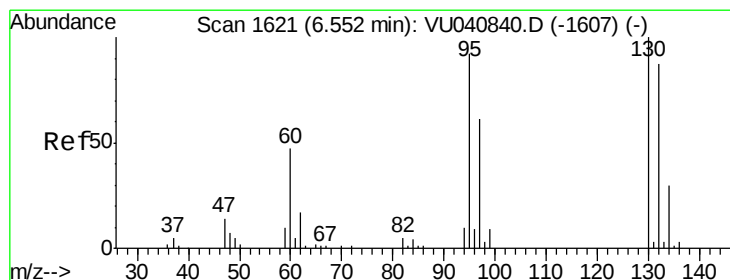
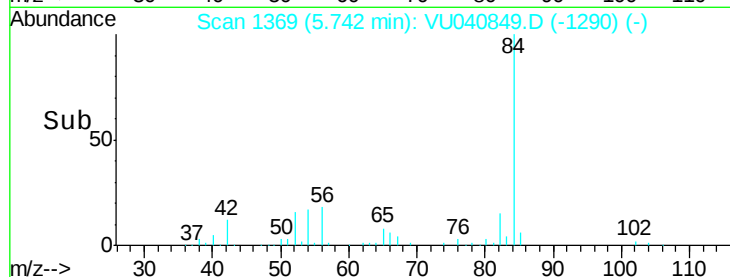
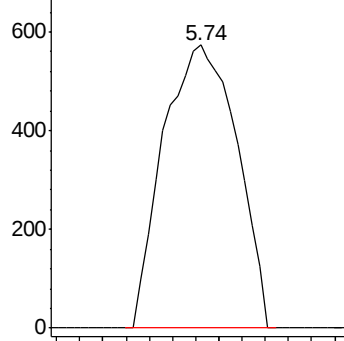
ClientSampled :

C0AJ9

Tgt Ion: 78 Resp: 1269



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.922 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU040849.D

Acq: 20 Oct 2020 15:37

Tgt Ion: 95 Resp: 10613

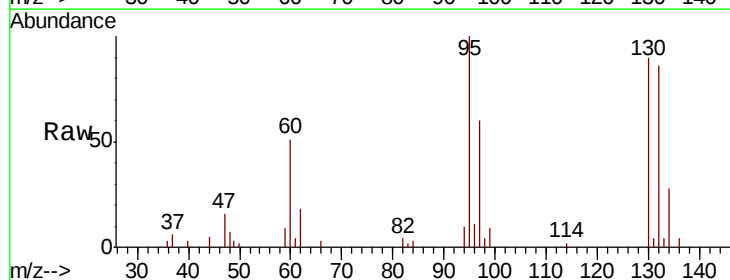
Ion	Ratio	Lower	Upper
95	100		
97	60.0	45.5	84.5
132	86.5	67.5	125.4
130	89.6	69.9	129.9

95 100

97 60.0 45.5 84.5

132 86.5 67.5 125.4

130 89.6 69.9 129.9

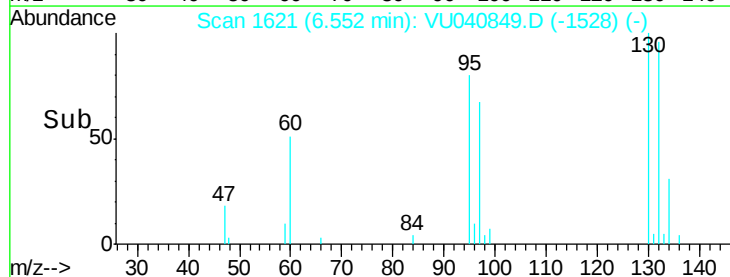
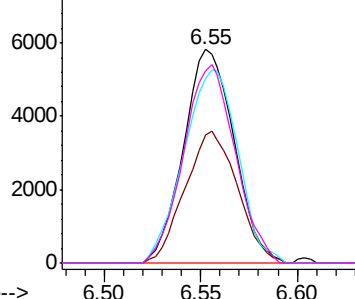


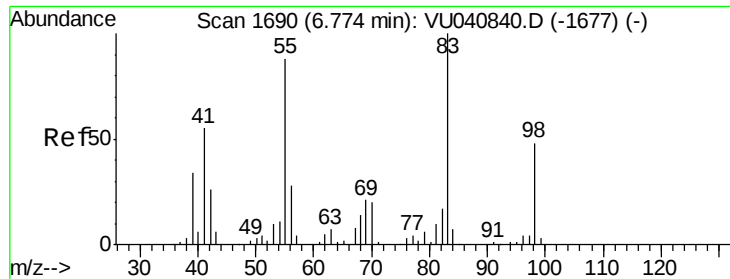
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

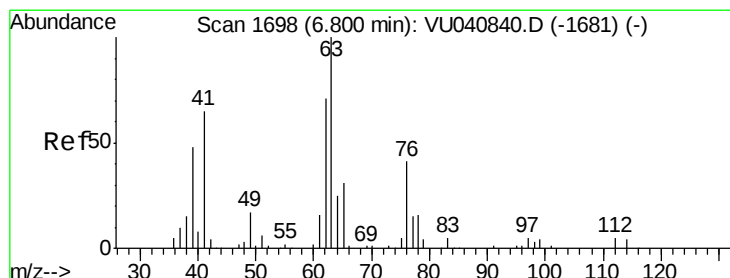
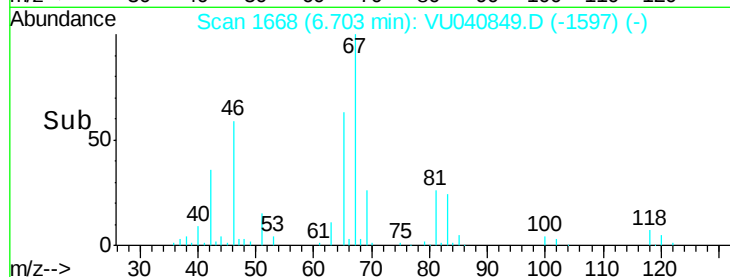
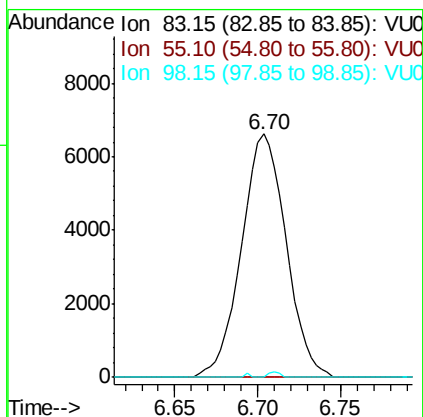
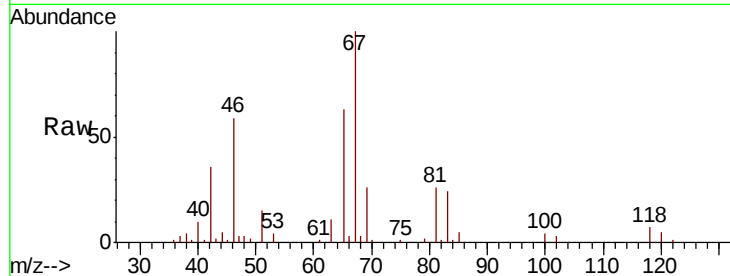




#35
Methylcyclohexane
Concen: 0.761 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040849.D
Acq: 20 Oct 2020 15:37

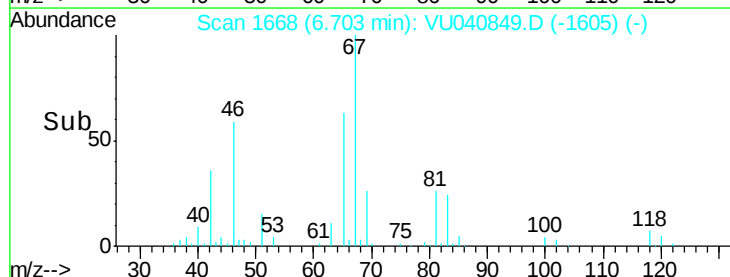
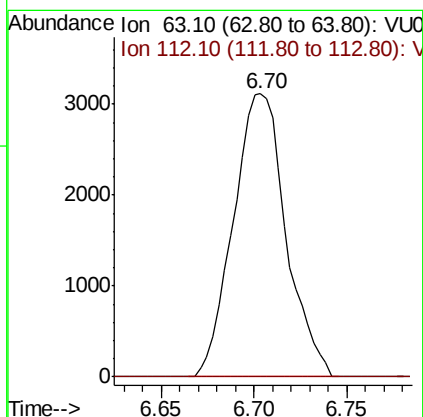
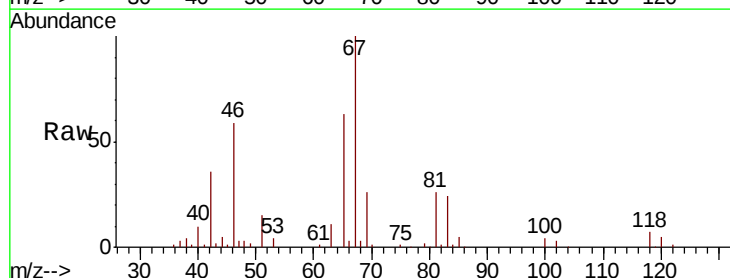
Instrument :
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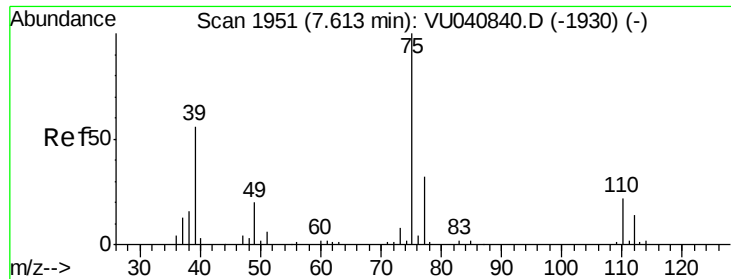
Tot Ion: 83 Resp: 12419
Ion Ratio Lower Upper
83 100
55 0.0 70.7 106.1#
98 0.6 38.4 57.6#



#37
1,2-Dichloropropane
Concen: 0.498 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040849.D
Acq: 20 Oct 2020 15:37

Tgt Ion: 63 Resp: 6165
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#

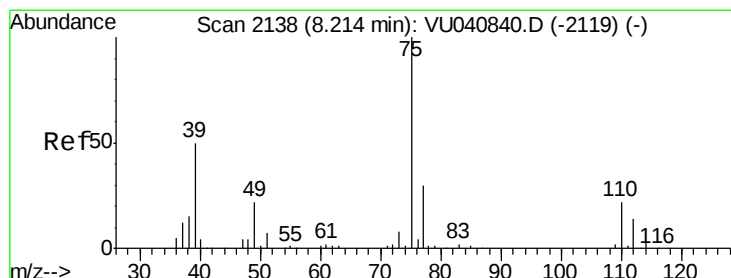
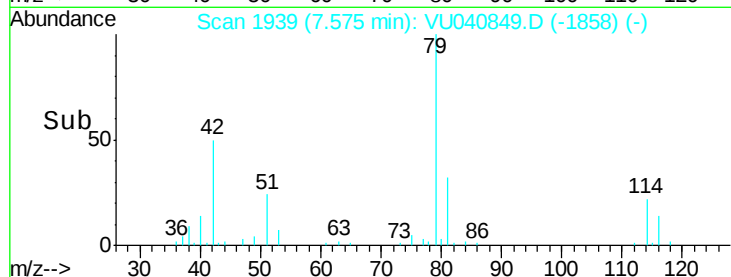
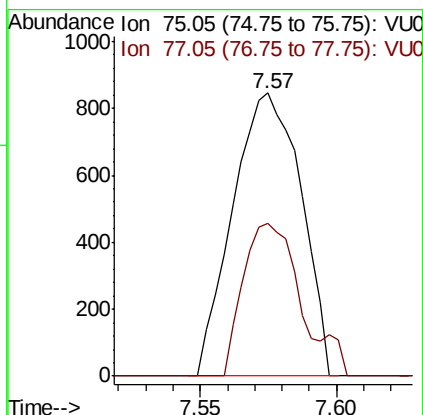
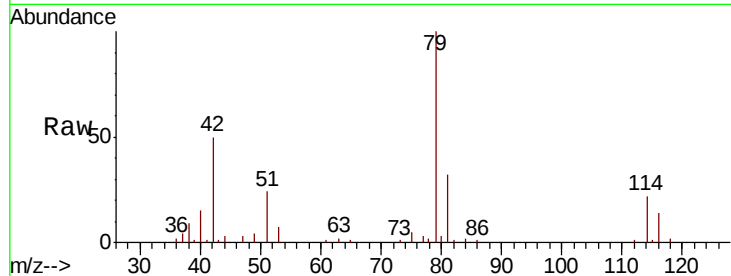




#39
 cis-1,3-Dichloropropene
 Concen: 0.087 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040849.D
 Acq: 20 Oct 2020 15:37

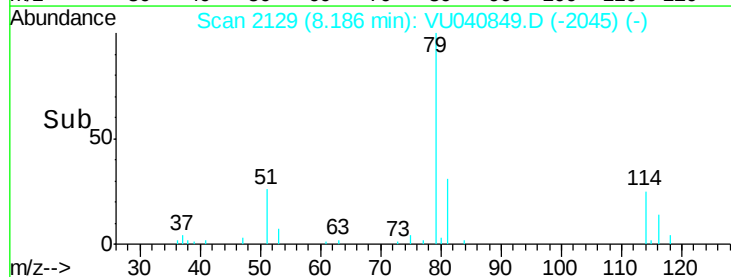
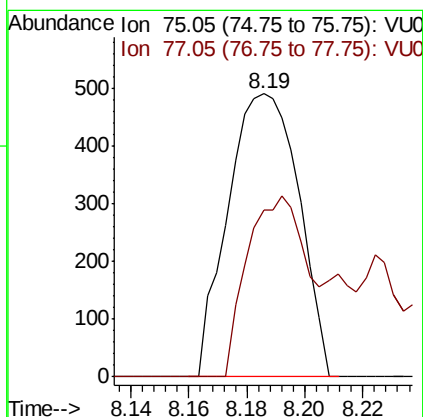
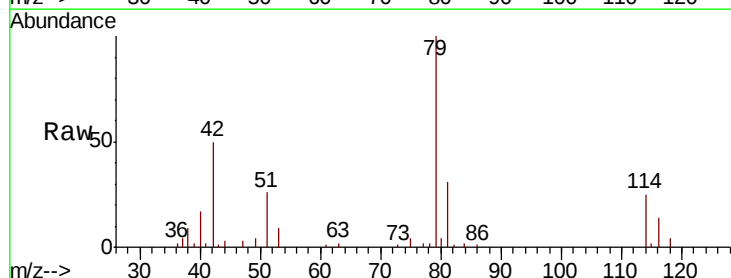
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ9

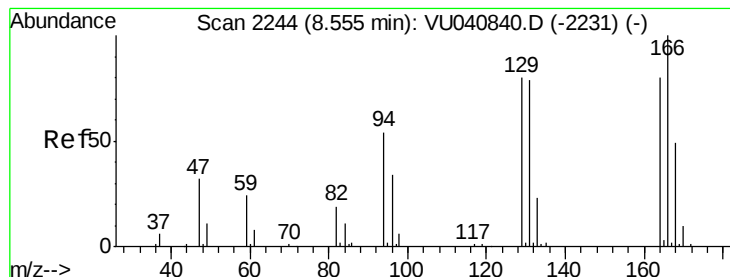
Tot Ion: 75 Resp: 1470
 Ion Ratio Lower Upper
 75 100
 77 54.0 20.5 38.1#



#44
 trans-1,3-Dichloropropene
 Concen: 0.053 ug/L
 RT: 8.19 min Scan# 2129
 Delta R.T. -0.03 min
 Lab File: VU040849.D
 Acq: 20 Oct 2020 15:37

Tgt Ion: 75 Resp: 830
 Ion Ratio Lower Upper
 75 100
 77 58.8 20.4 38.0#





#47

Tetrachloroethene

Concen: 0.785 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040849.D

Acq: 20 Oct 2020 15:37

Instrument :

MSVOA_U

ClientSampleId :

C0AJ9

Tot Ion:164 Resp: 6446

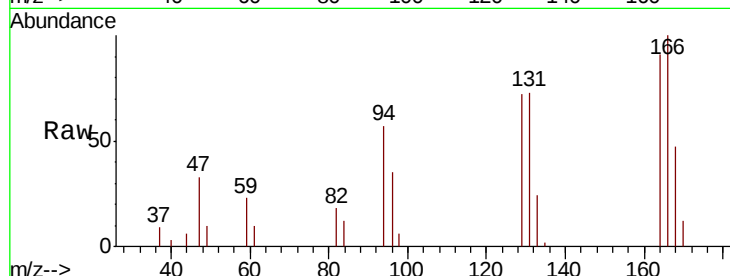
Ion Ratio Lower Upper

164 100

129 79.8 68.8 127.8

131 80.7 66.7 123.9

166 110.2 83.9 155.7

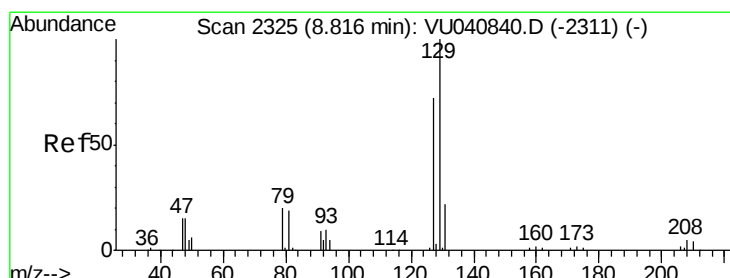
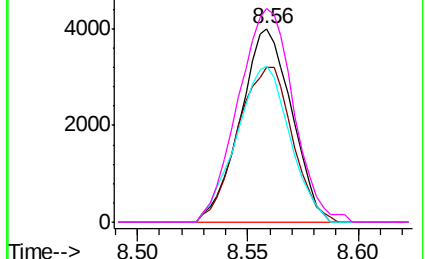
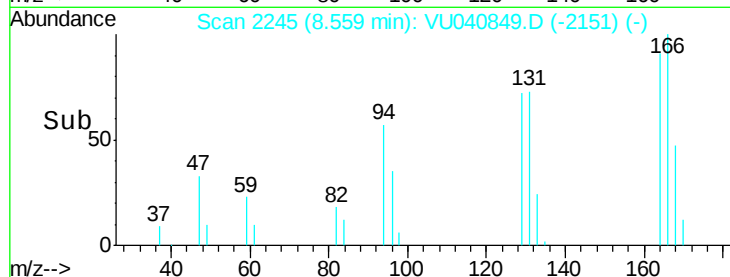


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#49

Dibromochloromethane

Concen: 0.519 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. -0.25 min

Lab File: VU040849.D

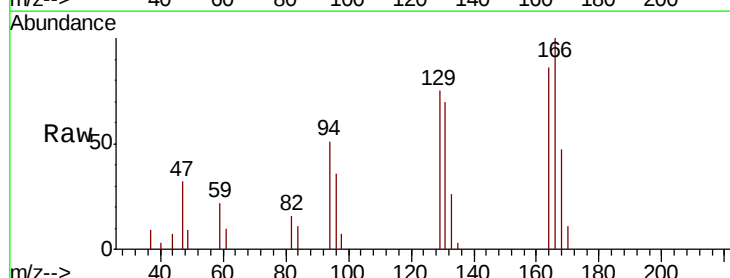
Acq: 20 Oct 2020 15:37

Tgt Ion:129 Resp: 5539

Ion Ratio Lower Upper

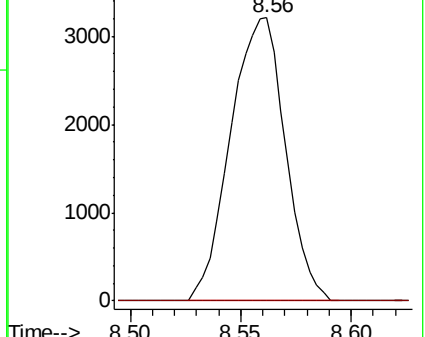
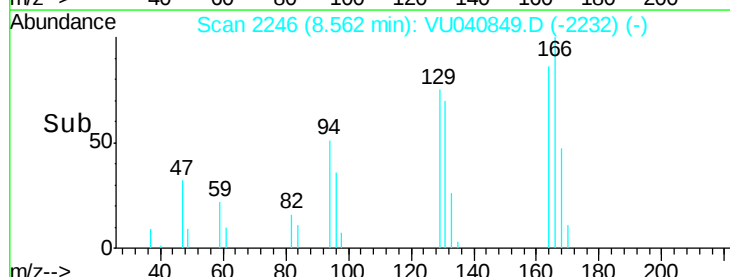
129 100

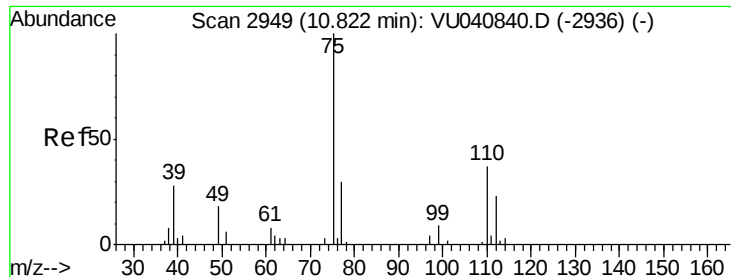
127 0.0 55.8 103.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 0.892 ug/L

RT: 11.80 min Scan# 3254

Delta R.T. 0.98 min

Lab File: VU040849.D

Acq: 20 Oct 2020 15:37

Instrument :

MSVOA_U

ClientSampleId :

C0AJ9

Tot Ion: 75 Resp: 8108

Ion Ratio Lower Upper

75 100

77 34.8 26.4 39.6

