

Data File : VU033287.D
Acq On : 17 Jul 2019 13:39
Operator : JC/SP
Sample : K3772-24MSD
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
A52M0MSD

Quant Time: Jul 18 08:05:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR071619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 18 08:01:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	132134	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	137790	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	57992	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	53852	4.05	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.00%
7) Chloroethane-d5	1.67	69	49218	4.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.80%
11) 1,1-Dichloroethene-d2	2.26	63	128127	4.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.60%
20) 2-Butanone-d5	4.17	46	110879	44.22	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.44%
24) Chloroform-d	4.62	84	83418	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.00%
26) 1,2-Dichloroethane-d4	5.29	65	49537	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.32	84	175331	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
36) 1,2-Dichloropropane-d6	6.31	67	56425	4.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.40%
41) Toluene-d8	7.55	98	157430	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.60%
43) trans-1,3-Dichloropropene-	7.83	79	21840	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
46) 2-Hexanone-d5	8.30	63	85427	42.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.00%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	46354	4.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.40%
64) 1,2-Dichlorobenzene-d4	11.85	152	59121	5.24	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.80%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	118575	8.336	ug/L 100
12) 1,1-Dichloroethene	2.27	96	73444	6.765	ug/L 87
13) Acetone	2.31	43	8560	3.899	ug/L 98
18) trans-1,2-Dichloroethene	2.96	96	20967	1.749	ug/L 99
19) 1,1-Dichloroethane	3.42	63	10091	0.560	ug/L 98
22) cis-1,2-Dichloroethene	4.20	96	4970536	490.462	ug/L 92
25) Chloroform	4.65	83	6650	0.333	ug/L 99
27) 1,2-Dichloroethane	5.36	62	2053	0.173	ug/L # 27
29) 1,1,1-Trichloroethane	4.89	97	7051	0.443	ug/L 97
33) Benzene	5.36	78	190072	4.871	ug/L 100
34) Trichloroethene	6.16	95	3684200	356.809	ug/L 96
35) Methylcyclohexane	6.31	83	13542	0.870	ug/L # 18
37) 1,2-Dichloropropane	6.31	63	6805	0.645	ug/L # 89
42) Toluene	7.62	91	202150	4.826	ug/L 99
44) trans-1,3-Dichloropropene	7.83	75	990	0.081	ug/L 90
47) Tetrachloroethene	8.21	164	3242	0.392	ug/L 86
48) 2-Hexanone	8.35	43	4996	1.130	ug/L # 69

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071719\
Quantitation Report (Not Reviewed)

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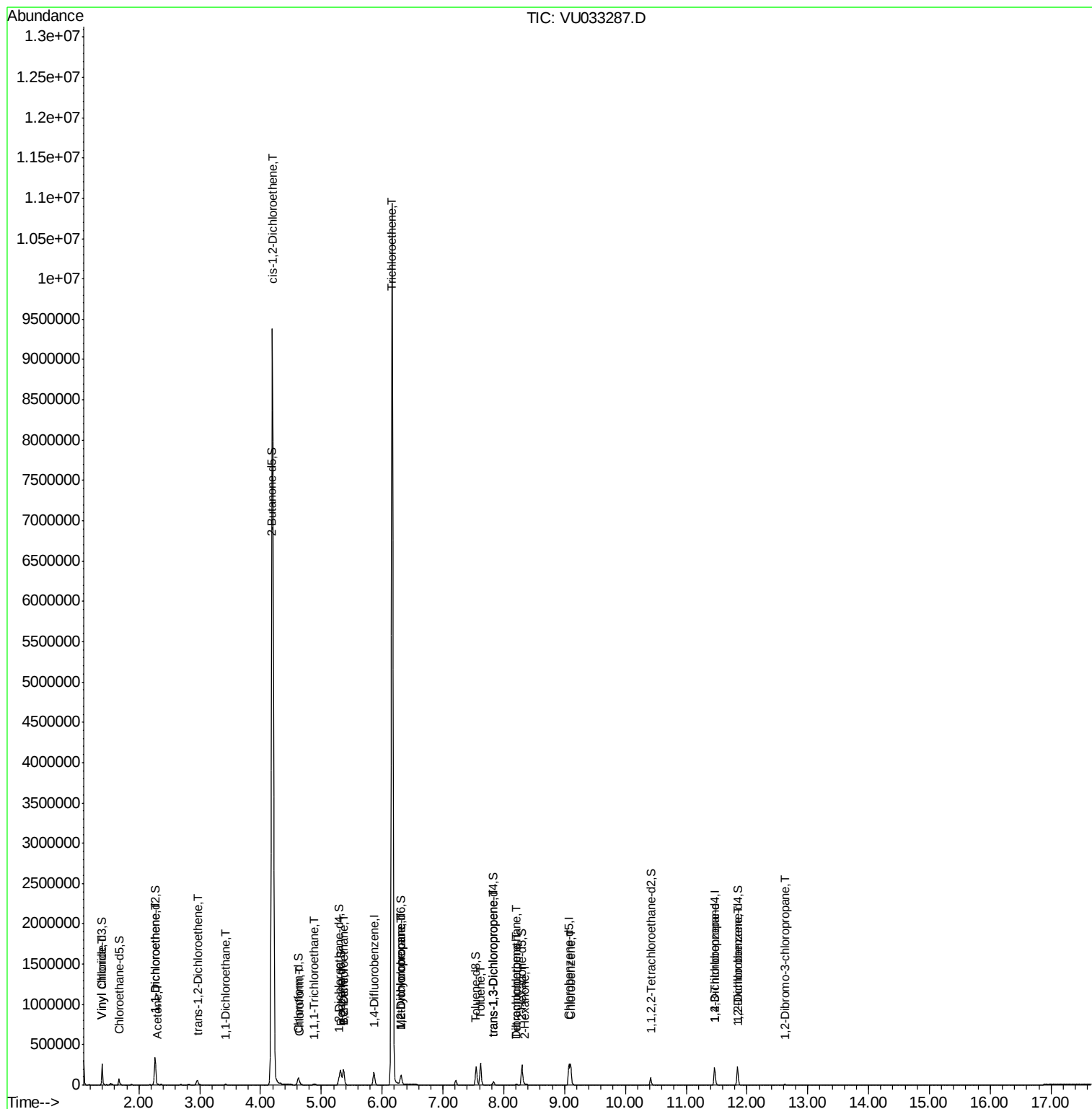
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.21	129	3236	0.356	ug/L #	12
51) Chlorobenzene	9.10	112	134229	4.882	ug/L	99
59) 1,2,3-Trichloropropane	11.47	75	7916	1.150	ug/L	94
65) 1,2-Dichlorobenzene	11.86	146	2313	0.134	ug/L #	85
66) 1,2-Dibromo-3-chloropropan	12.62	75	1586	1.218	ug/L #	2

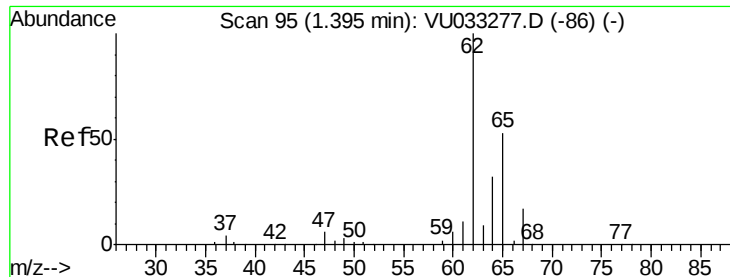
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 8.336 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033287.D

Acq: 17 Jul 2019 13:39

Instrument :

MSVOA_U

ClientSampled :

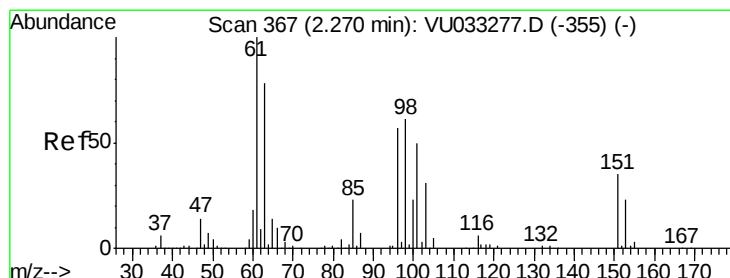
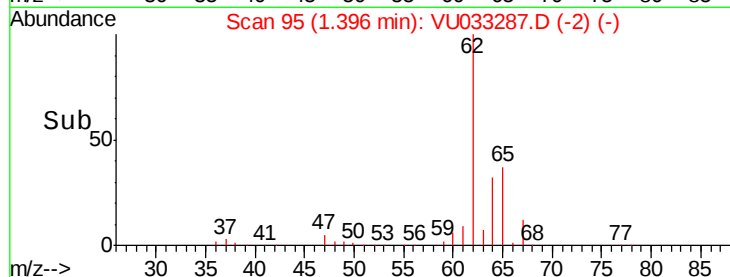
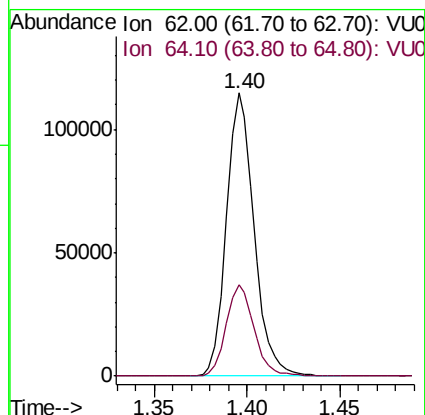
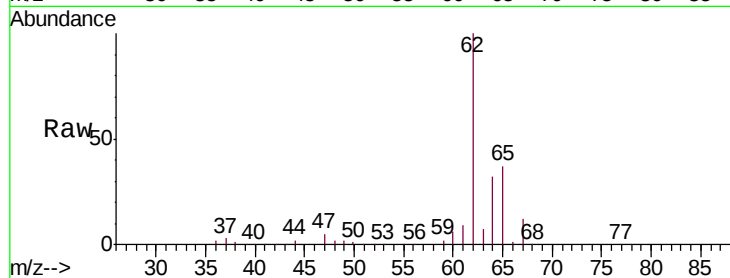
A52M0MSD

Tgt Ion: 62 Resp: 118575

Ion Ratio Lower Upper

62 100

64 32.3 22.8 42.4



#12

1,1-Dichloroethene

Concen: 6.765 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033287.D

Acq: 17 Jul 2019 13:39

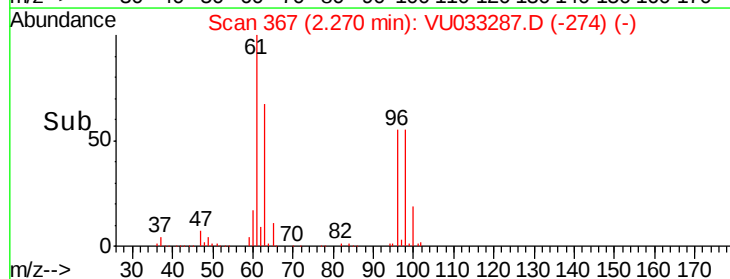
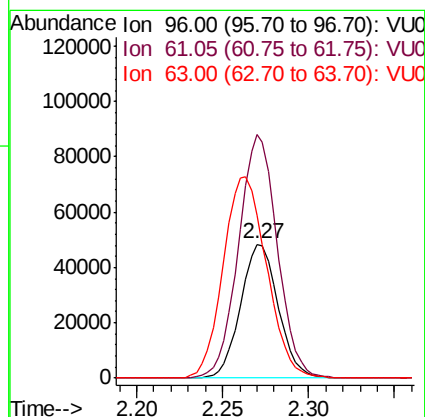
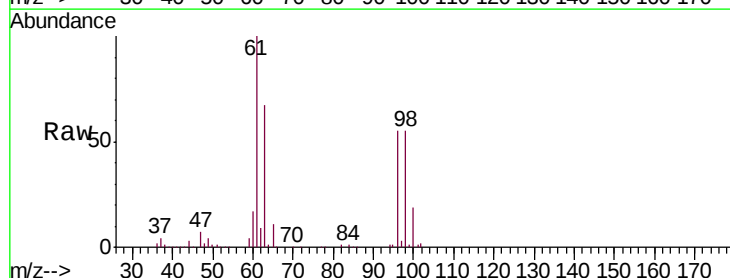
Tgt Ion: 96 Resp: 73444

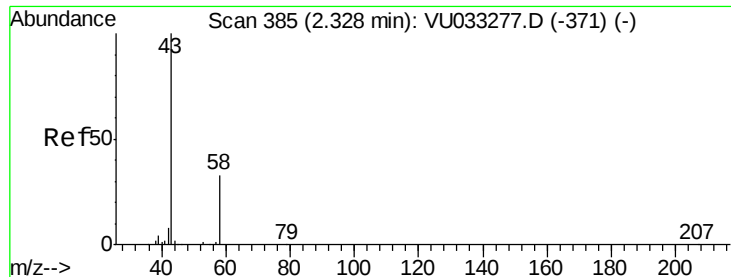
Ion Ratio Lower Upper

96 100

61 181.5 129.3 240.1

63 121.4 108.9 202.3





#13

Acetone

Concen: 3.899 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.02 min

Lab File: VU033287.D

Acq: 17 Jul 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

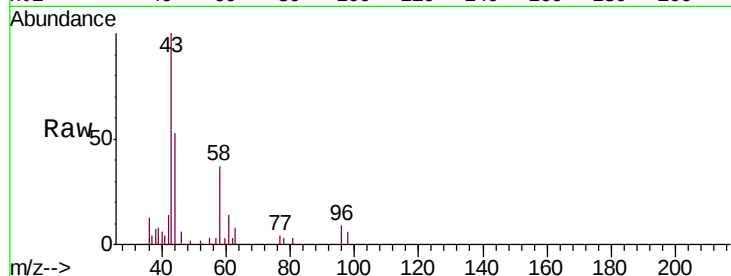
A52M0MSD

Tgt Ion: 43 Resp: 8560

Ion Ratio Lower Upper

43 100

58 34.7 0.0 66.6



Abundance Ion 43.05 (42.75 to 43.75): VU033287.D (-371) (-)

Ion 58.05 (57.75 to 58.75): VU033287.D (-371) (-)

2.31

5000

4000

3000

2000

1000

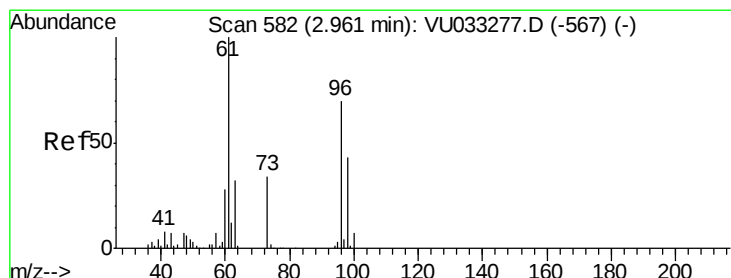
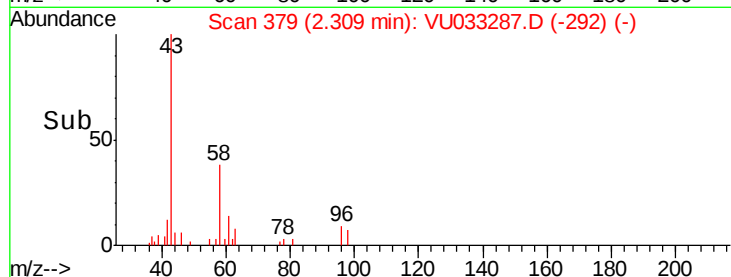
0

Time-->

2.25

2.30

2.35



#18

trans-1,2-Dichloroethene

Concen: 1.749 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033287.D

Acq: 17 Jul 2019 13:39

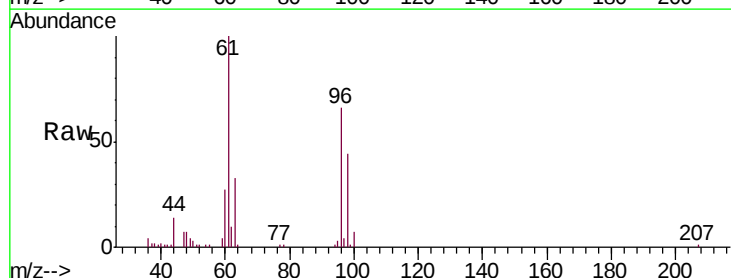
Tgt Ion: 96 Resp: 20967

Ion Ratio Lower Upper

96 100

61 151.8 107.1 198.9

98 66.3 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU033287.D (-567) (-)

Ion 61.05 (60.75 to 61.75): VU033287.D (-567) (-)

Ion 97.95 (97.65 to 98.65): VU033287.D (-567) (-)

2.96

20000

15000

10000

5000

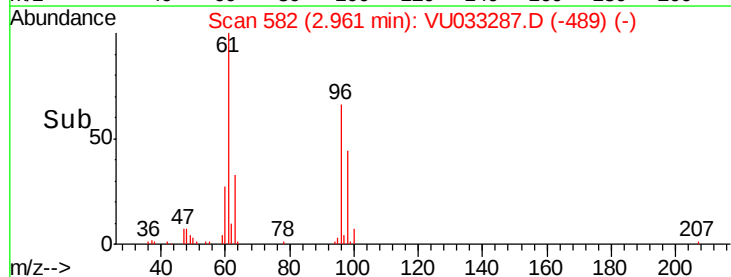
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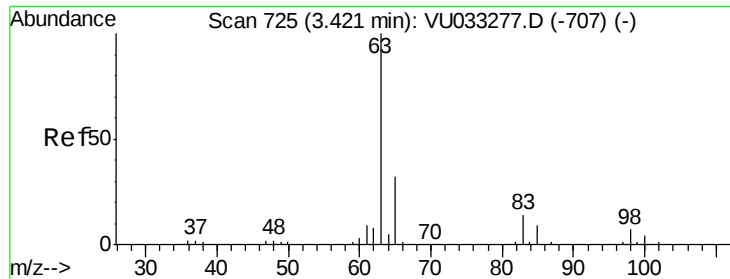
Time-->

2.90

2.95

3.00

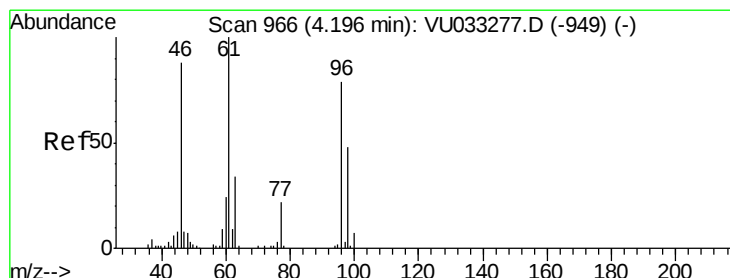
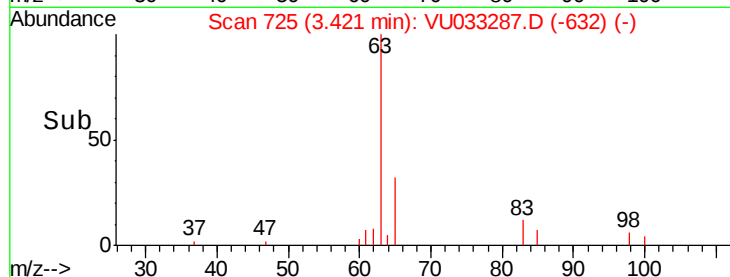
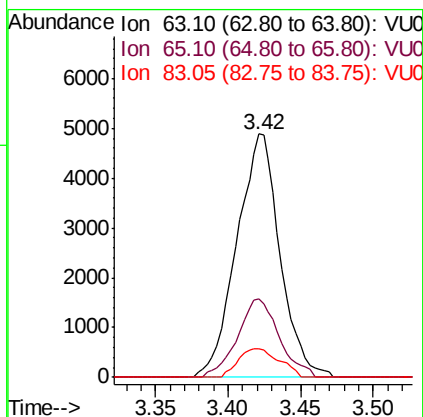
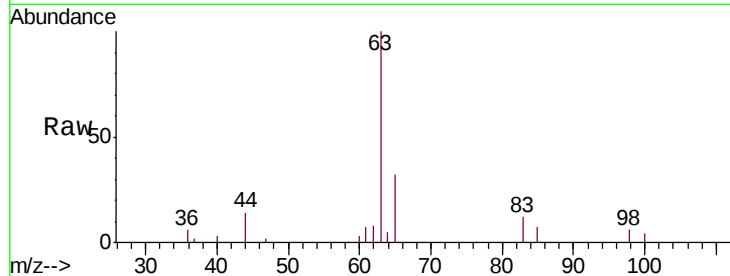




#19
 1,1-Dichloroethane
 Concen: 0.560 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033287.D
 Acq: 17 Jul 2019 13:39

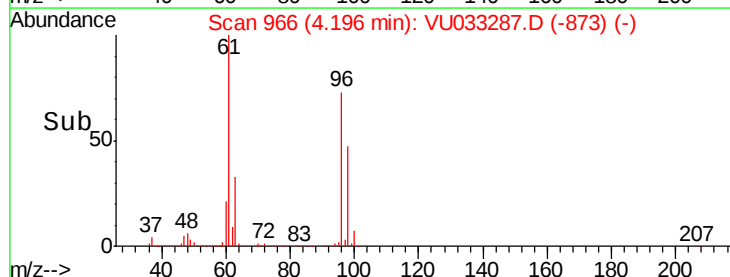
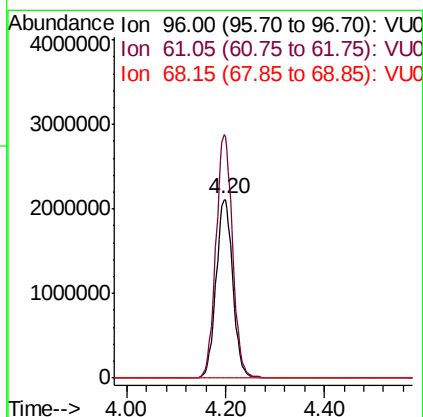
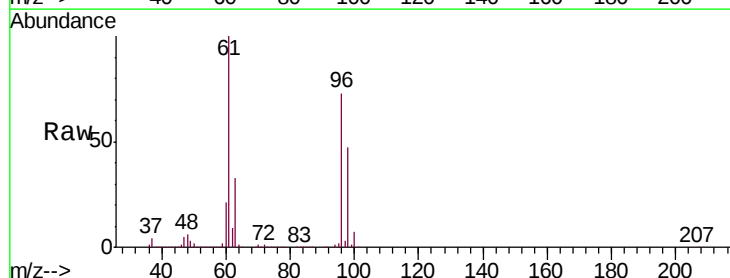
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 A52M0MSD

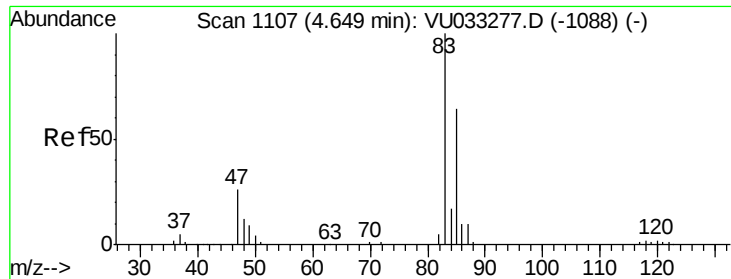
Tgt Ion: 63 Resp: 10091
 Ion Ratio Lower Upper
 63 100
 65 32.1 21.7 40.3
 83 11.9 9.0 16.8



#22
 cis-1,2-Dichloroethene
 Concen: 490.462 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. 0.00 min
 Lab File: VU033287.D
 Acq: 17 Jul 2019 13:39

Tgt Ion: 96 Resp: 4970536
 Ion Ratio Lower Upper
 96 100
 61 136.1 89.2 165.6
 68 0.0 0.0 0.0

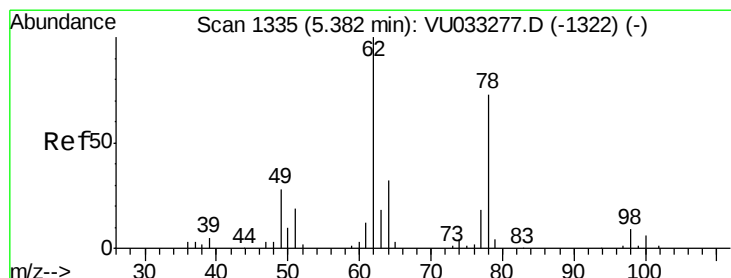
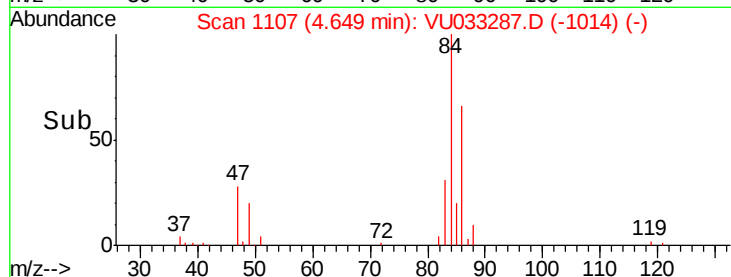
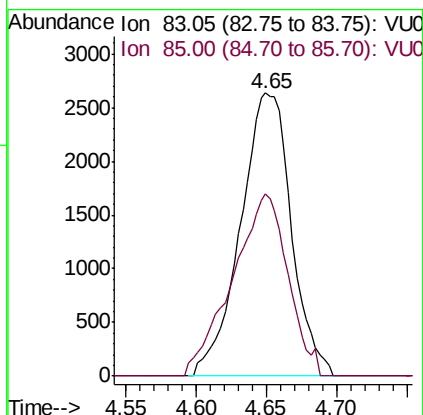
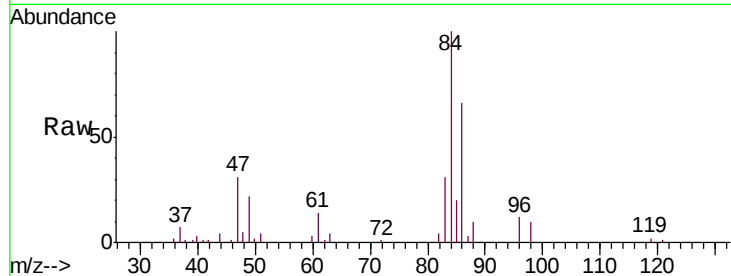




#25
Chloroform
Concen: 0.333 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033287.D
Acq: 17 Jul 2019 13:39

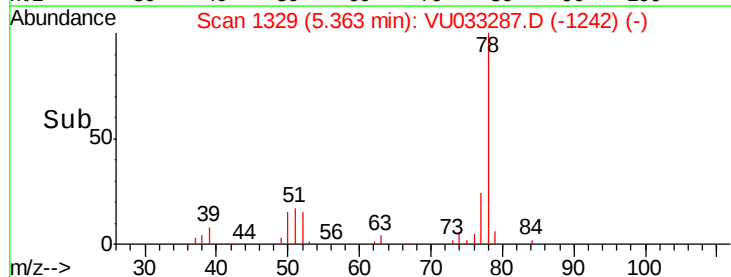
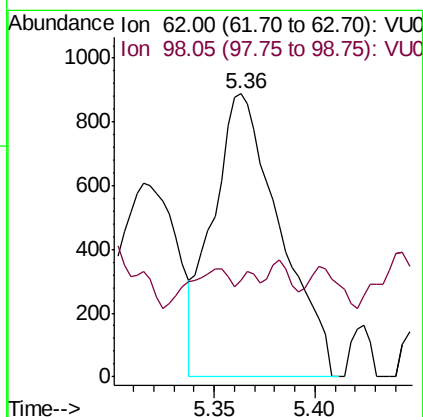
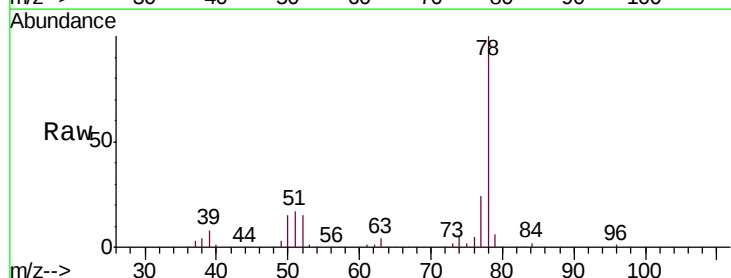
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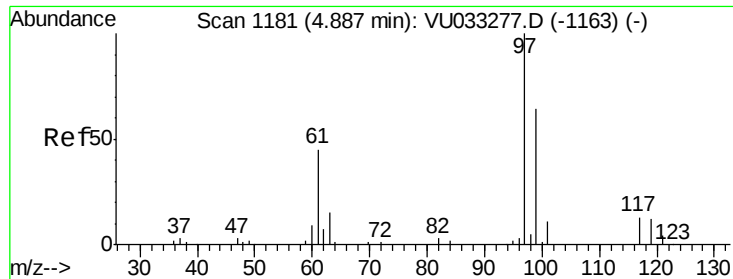
Tgt Ion: 83 Resp: 6650
Ion Ratio Lower Upper
83 100
85 64.2 45.4 84.4



#27
1,2-Dichloroethane
Concen: 0.173 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.02 min
Lab File: VU033287.D
Acq: 17 Jul 2019 13:39

Tgt Ion: 62 Resp: 2053
Ion Ratio Lower Upper
62 100
98 34.2 6.6 10.0#

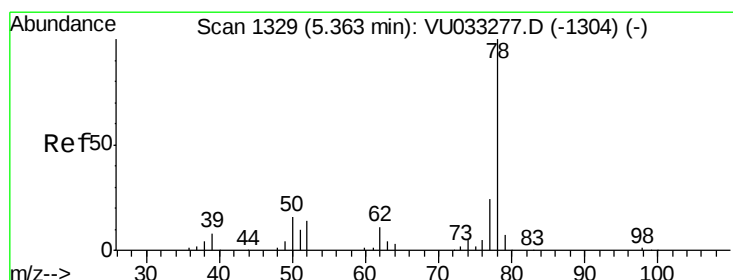
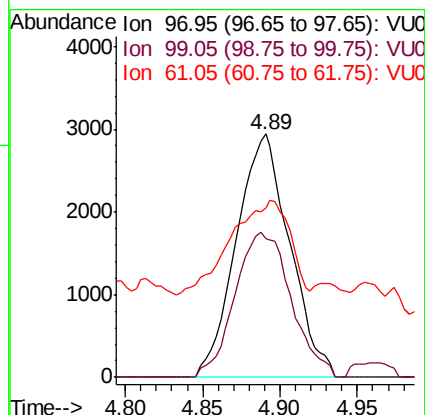
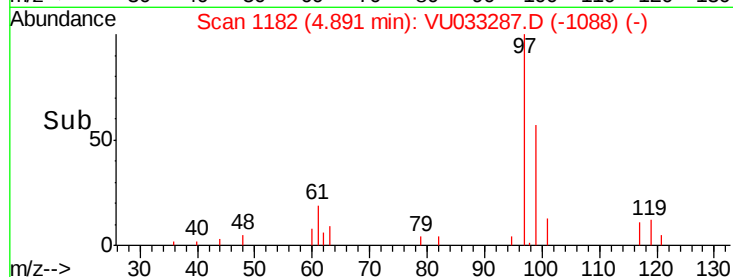
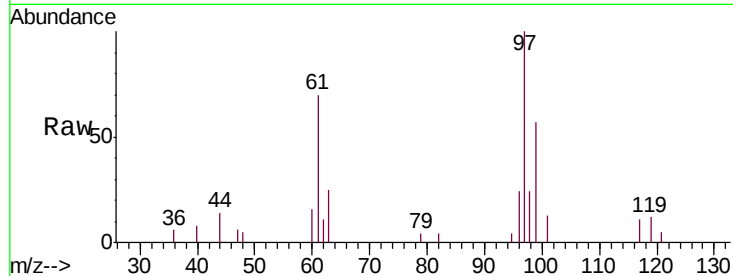




#29
 1,1,1-Trichloroethane
 Concen: 0.443 ug/L
 RT: 4.89 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VU033287.D
 Acq: 17 Jul 2019 13:39

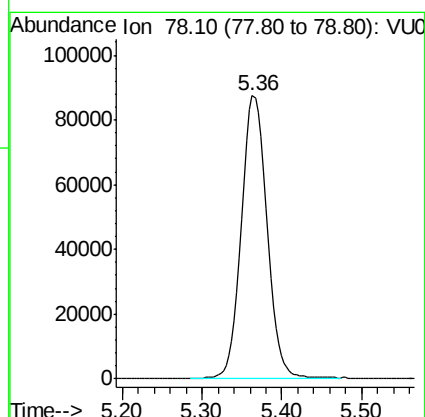
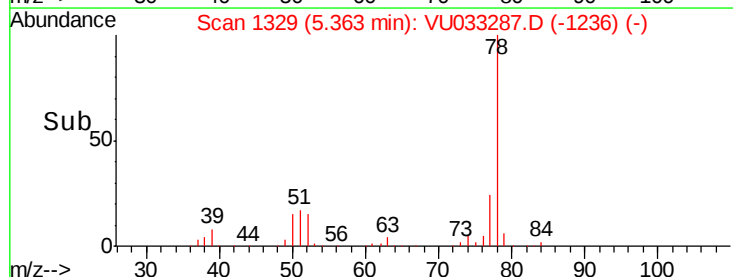
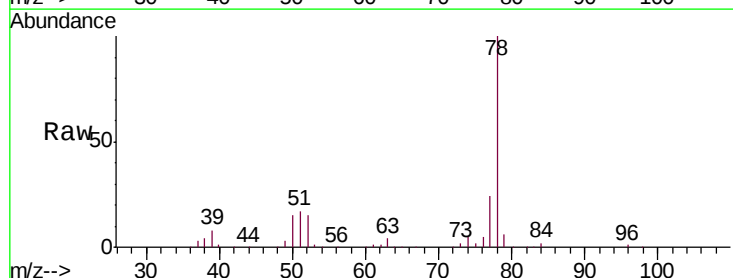
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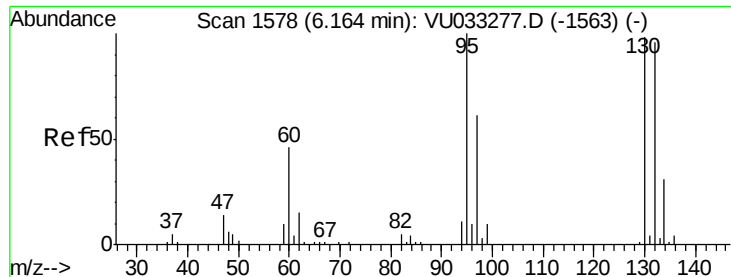
Tgt Ion: 97 Resp: 7051
 Ion Ratio Lower Upper
 97 100
 99 62.6 51.6 77.4
 61 42.7 36.2 54.4



#33
 Benzene
 Concen: 4.871 ug/L
 RT: 5.36 min Scan# 1329
 Delta R.T. 0.00 min
 Lab File: VU033287.D
 Acq: 17 Jul 2019 13:39

Tgt Ion: 78 Resp: 190072

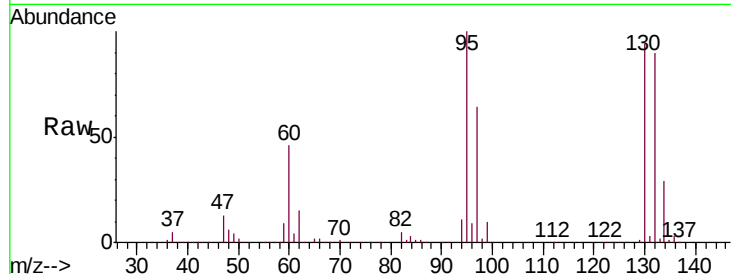




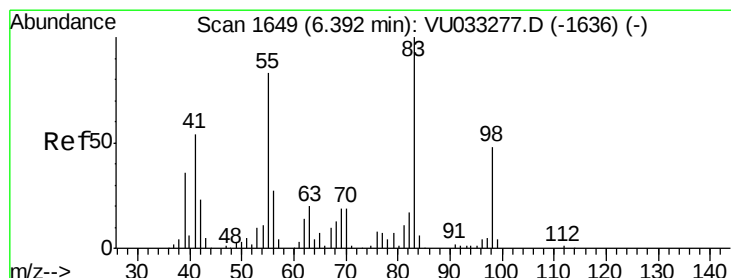
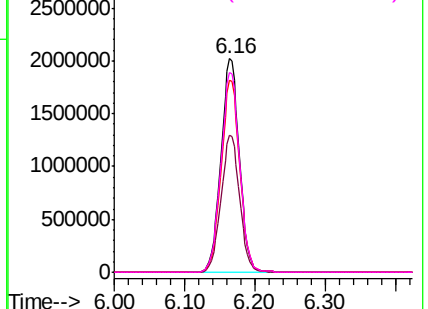
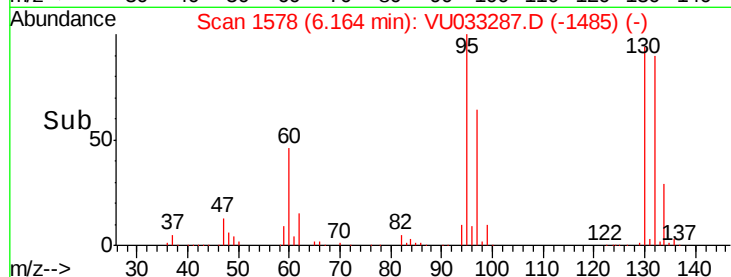
#34
 Trichloroethene
 Concen: 356.809 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU033287.D
 Acq: 17 Jul 2019 13:39

Instrument :
 MSVOA_U
 ClientSampleId :
 A52M0MSD

Tgt Ion: 95 Resp: 3684200
 Ion Ratio Lower Upper
 95 100
 97 63.9 44.5 82.7
 132 89.9 66.6 123.8
 130 93.8 68.9 127.9

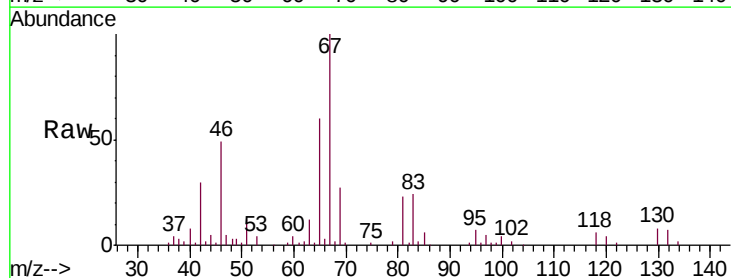


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

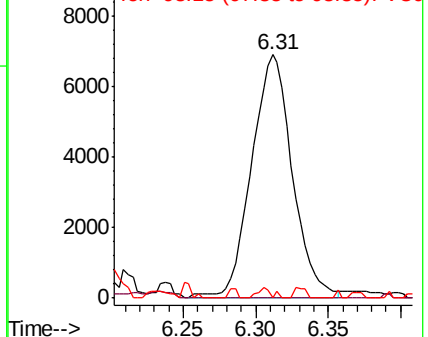
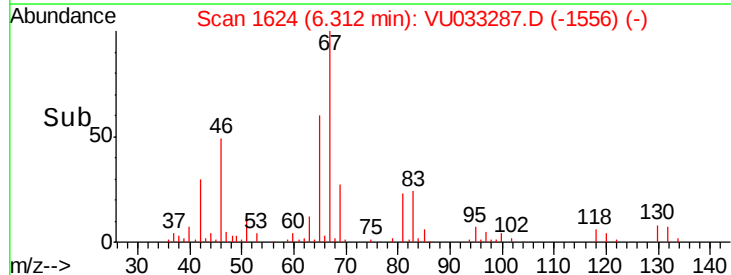


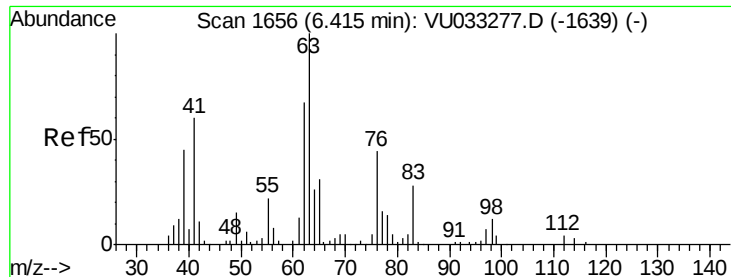
#35
 Methylcyclohexane
 Concen: 0.870 ug/L
 RT: 6.31 min Scan# 1624
 Delta R.T. -0.08 min
 Lab File: VU033287.D
 Acq: 17 Jul 2019 13:39

Tgt Ion: 83 Resp: 13542
 Ion Ratio Lower Upper
 83 100
 55 0.4 62.6 94.0#
 98 0.0 36.2 54.2#



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: 0.645 ug/L

RT: 6.31 min Scan# 1624

Delta R.T. -0.10 min

Lab File: VU033287.D

Acq: 17 Jul 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

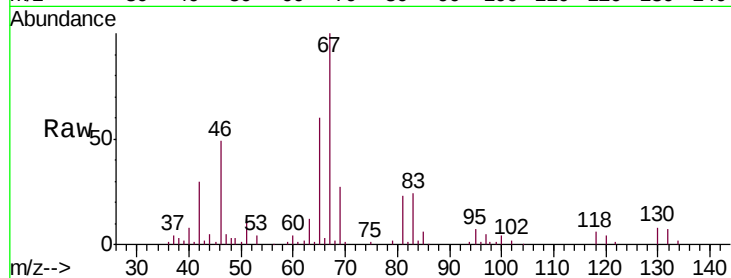
A52M0MSD

Tgt Ion: 63 Resp: 6805

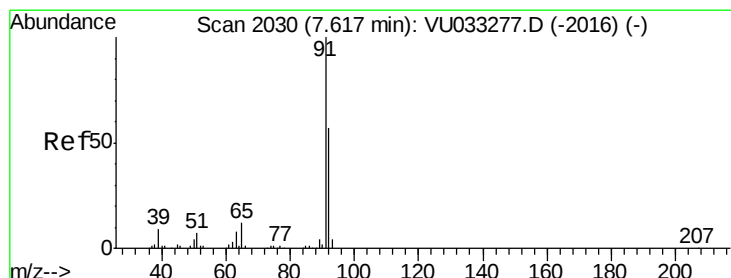
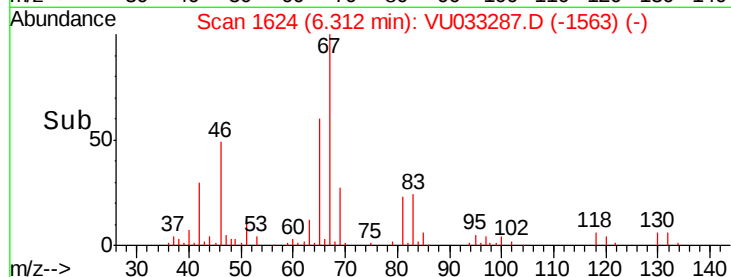
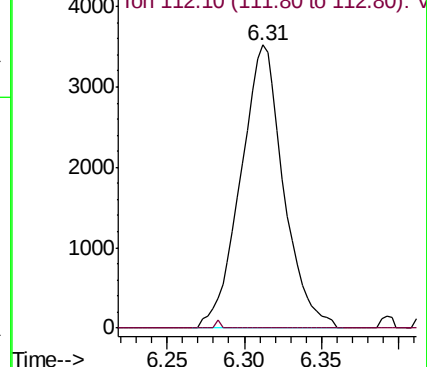
Ion Ratio Lower Upper

63 100

112 0.3 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU033287.D (-1639) (-)



#42

Toluene

Concen: 4.826 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033287.D

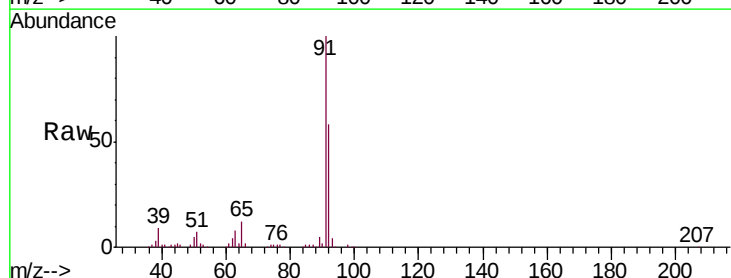
Acq: 17 Jul 2019 13:39

Tgt Ion: 91 Resp: 202150

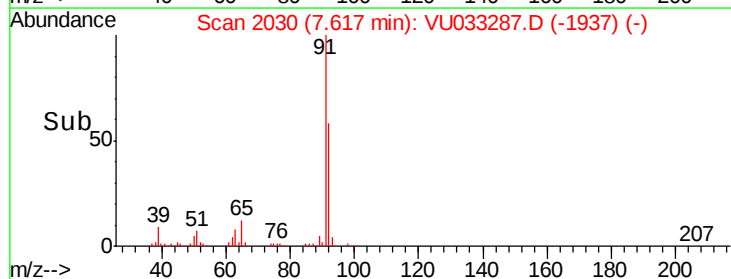
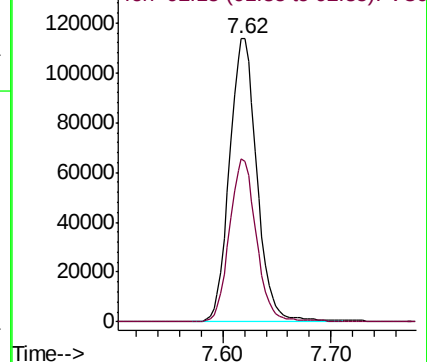
Ion Ratio Lower Upper

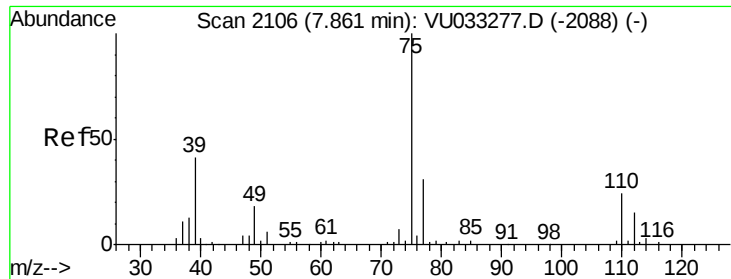
91 100

92 57.5 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU033287.D (-1937) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.081 ug/L

RT: 7.83 min Scan# 2097

Delta R.T. -0.03 min

Lab File: VU033287.D

Acq: 17 Jul 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

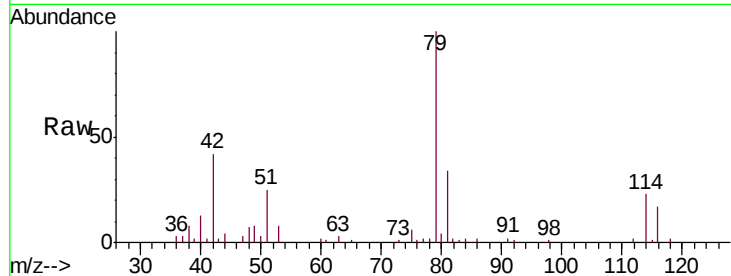
A52M0MSD

Tgt Ion: 75 Resp: 990

Ion Ratio Lower Upper

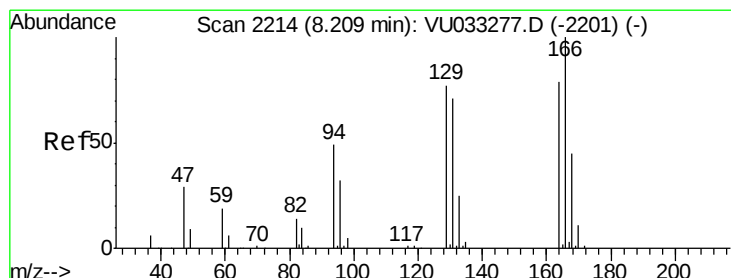
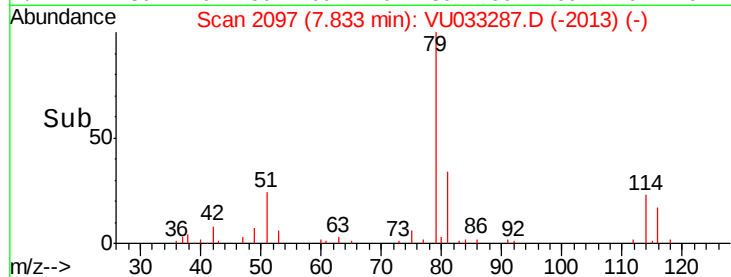
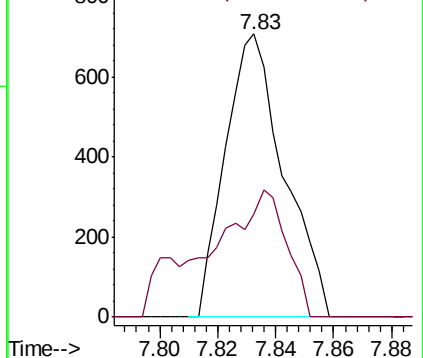
75 100

77 36.5 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#47

Tetrachloroethene

Concen: 0.392 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033287.D

Acq: 17 Jul 2019 13:39

Tgt Ion:164 Resp: 3242

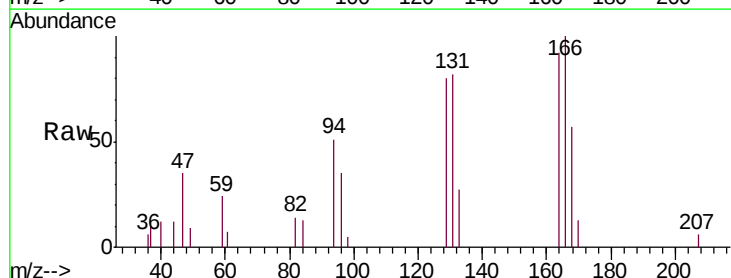
Ion Ratio Lower Upper

164 100

129 87.2 68.5 127.1

131 89.2 67.3 124.9

166 108.5 93.1 172.9

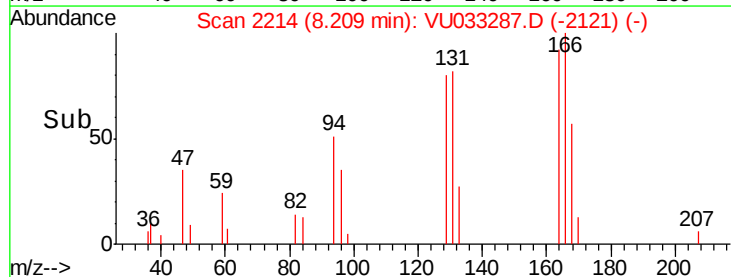
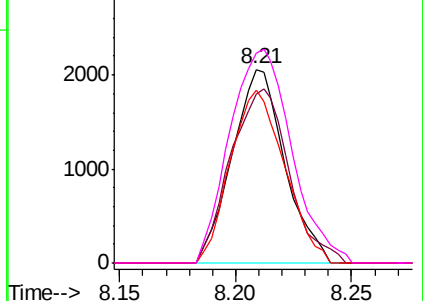


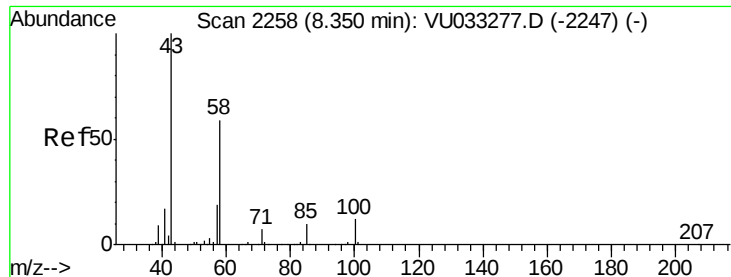
Abundance Ion 163.90 (163.60 to 164.60): V

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

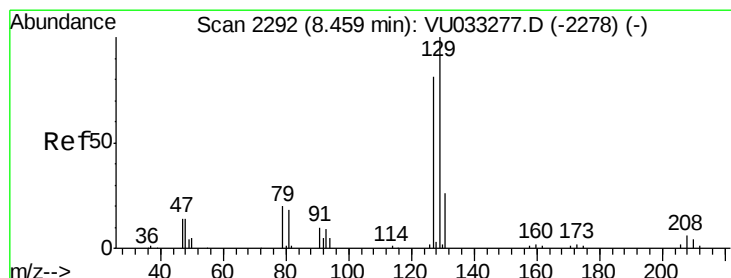
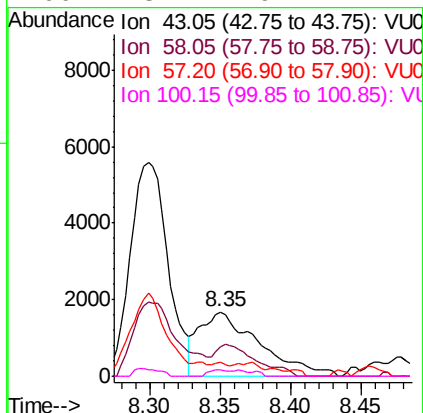
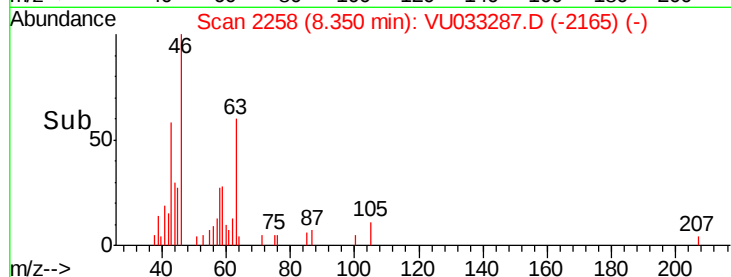
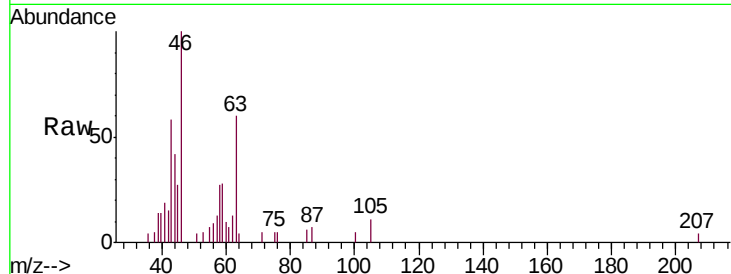




#48
2-Hexanone
Concen: 1.130 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.00 min
Lab File: VU033287.D
Acq: 17 Jul 2019 13:39

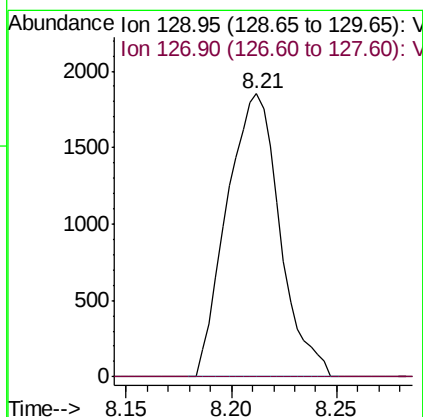
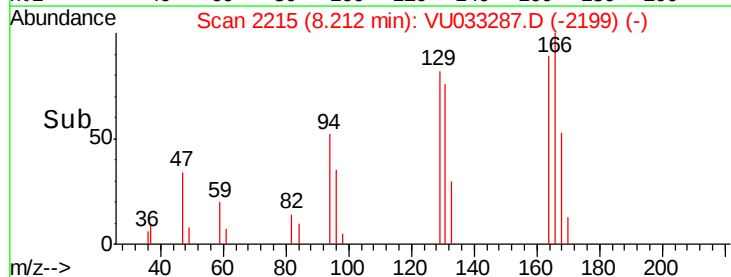
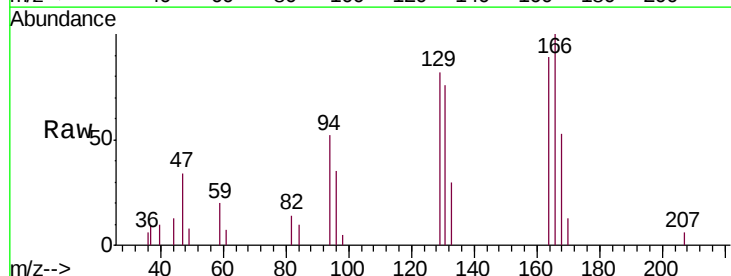
Instrument :
MSVOA_U
ClientSampleId :
A52M0MSD

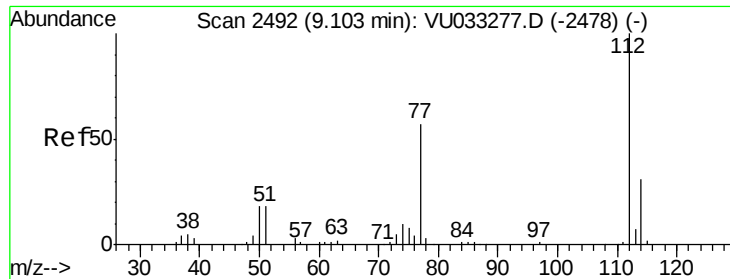
Tgt Ion: 43 Resp: 4996
Ion Ratio Lower Upper
43 100
58 34.5 44.1 66.1#
57 0.0 15.8 23.8#
100 3.2 9.4 14.2#



#49
Dibromochloromethane
Concen: 0.356 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. -0.25 min
Lab File: VU033287.D
Acq: 17 Jul 2019 13:39

Tgt Ion: 129 Resp: 3236
Ion Ratio Lower Upper
129 100
127 0.0 51.9 96.5#

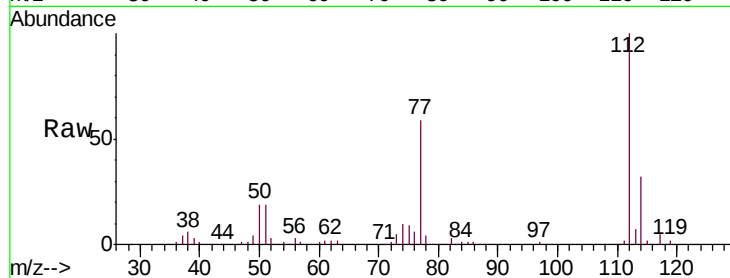




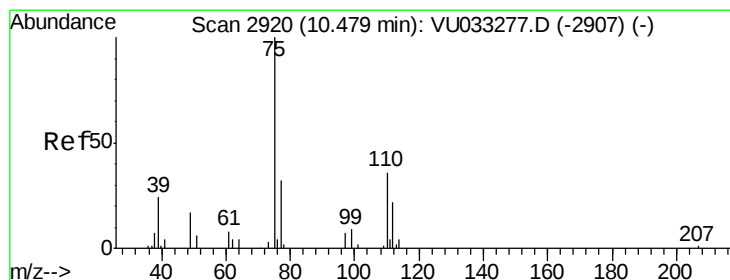
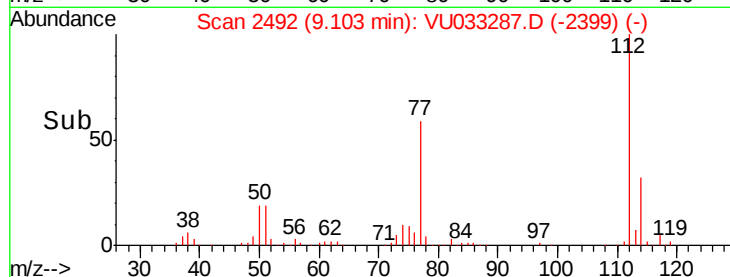
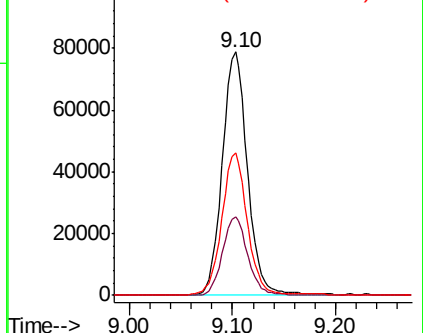
#51
Chlorobenzene
Concen: 4.882 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033287.D
Acq: 17 Jul 2019 13:39

Instrument :
MSVOA_U
ClientSampleId :
A52M0MSD

Tgt Ion: 112 Resp: 134229
Ion Ratio Lower Upper
112 100
114 32.4 22.1 41.1
77 58.6 46.9 70.3

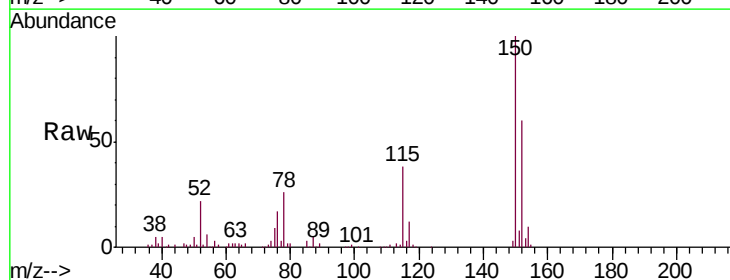


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

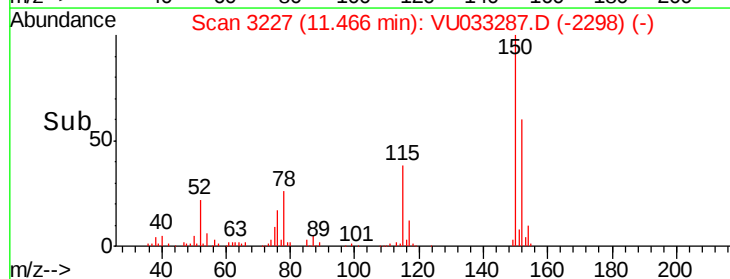
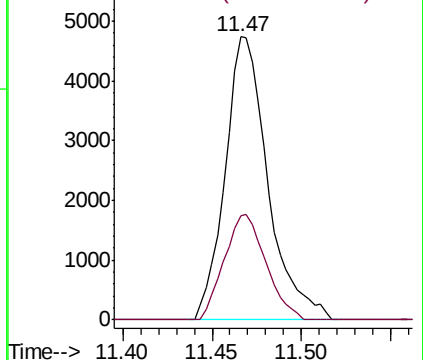


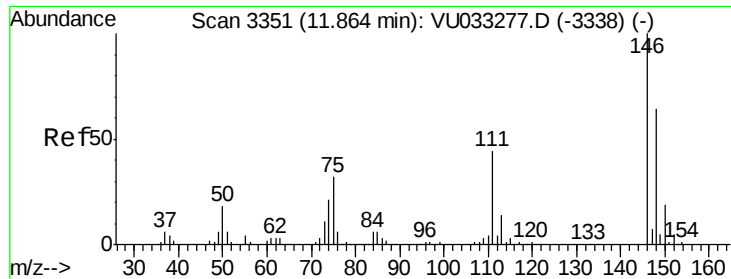
#59
1,2,3-Trichloropropane
Concen: 1.150 ug/L
RT: 11.47 min Scan# 3227
Delta R.T. 0.99 min
Lab File: VU033287.D
Acq: 17 Jul 2019 13:39

Tgt Ion: 75 Resp: 7916
Ion Ratio Lower Upper
75 100
77 36.3 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0





#65

1,2-Dichlorobenzene

Concen: 0.134 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033287.D

Acq: 17 Jul 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

A52M0MSD

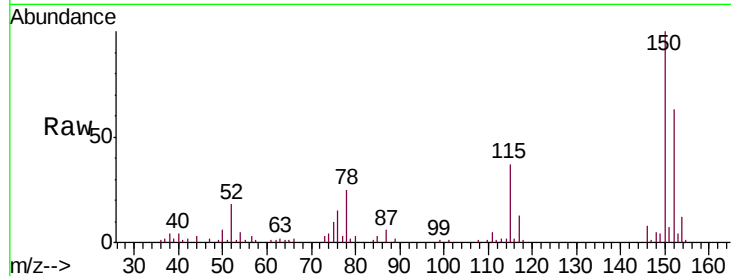
Tgt Ion:146 Resp: 2313

Ion Ratio Lower Upper

146 100

111 58.2 34.2 51.4#

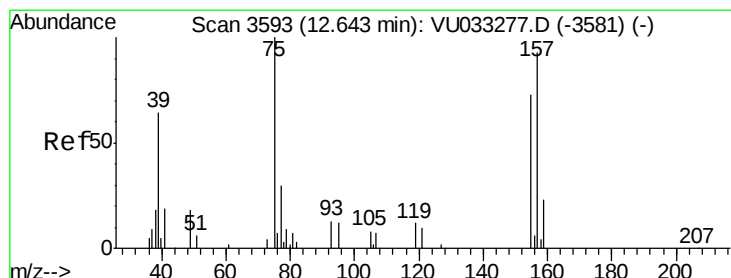
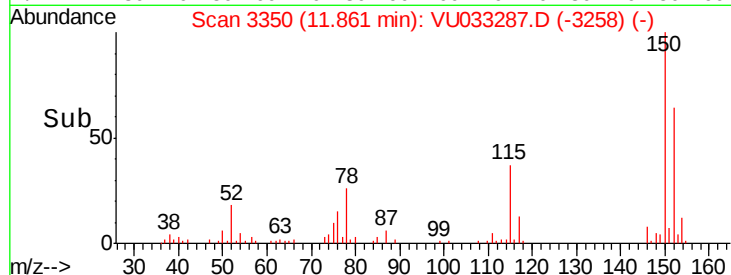
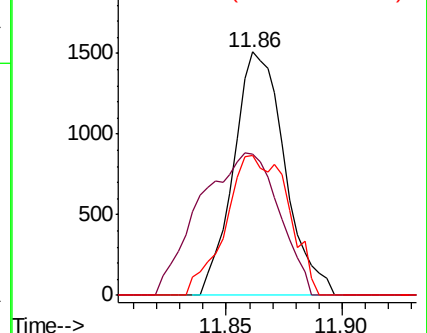
148 57.4 52.0 78.0



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: 1.218 ug/L

RT: 12.62 min Scan# 3587

Delta R.T. -0.02 min

Lab File: VU033287.D

Acq: 17 Jul 2019 13:39

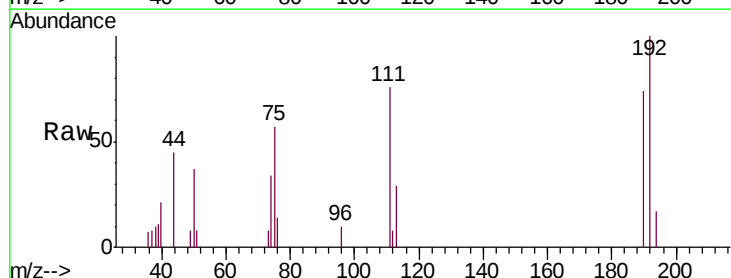
Tgt Ion: 75 Resp: 1586

Ion Ratio Lower Upper

75 100

155 0.0 67.1 100.7#

157 0.0 83.7 125.5#



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

