

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111323\
 Data File : VU056263.D
 Acq On : 13 Nov 2023 20:06
 Operator : MD/SY
 Sample : 05371-04DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 21:44:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 14 00:08:30 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	335173	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	333294	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	149718	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	68059	2.715	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	54.200%
7) Chloroethane-d5	1.907	69	49849	2.593	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	51.800%#
11) 1,1-Dichloroethene-d2	2.557	65	33306	3.010	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.200%
20) 2-Butanone-d5	4.628	46	187066	37.421	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.840%
24) Chloroform-d	5.055	84	167215	3.448	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	69.000%#
26) 1,2-Dichloroethane-d4	5.695	65	80447	3.590	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.800%
32) Benzene-d6	5.721	84	328190	3.305	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	66.000%#
36) 1,2-Dichloropropane-d6	6.685	67	102541	3.426	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	68.600%
41) Toluene-d8	7.894	98	280791	3.202	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	64.000%#
43) trans-1,3-Dichloroprop...	8.177	79	38266	3.334	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	66.600%
46) 2-Hexanone-d5	8.640	63	157392	34.893	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	69.780%
56) 1,1,2,2-Tetrachloroeth...	10.756	84	79827	3.733	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	74.600%
66) 1,2-Dichlorobenzene-d4	12.190	152	99413	3.594	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	71.800%#
Target Compounds						
					Qvalue	
8) Chloroethane	1.927	64	2707	0.169	ug/L	89
13) Acetone	2.640	43	39146	9.194	ug/L	99
15) Methyl Acetate	2.956	43	1369	0.181	ug/L #	77
16) Methylene chloride	3.039	84	17817	0.656	ug/L	99
17) Methyl tert-butyl Ether	3.361	73	7549	0.151	ug/L #	94
21) 2-Butanone	4.727	43	12614	2.283	ug/L #	65
22) cis-1,2-Dichloroethene	4.660	96	4129	0.172	ug/L	91
34) Trichloroethene	6.537	95	18545	0.716	ug/L	99
37) 1,2-Dichloropropane	6.791	63	3181	0.128	ug/L #	92
38) Bromodichloromethane	7.103	83	5343	0.167	ug/L	89
39) cis-1,3-Dichloropropene	7.605	75	4200	0.115	ug/L	90
45) 1,1,2-Trichloroethane	8.399	97	2366	0.143	ug/L	84
47) Tetrachloroethene	8.547	164	119382	6.833	ug/L	98
48) 2-Hexanone	8.698	43	11842	1.236	ug/L #	88
49) Dibromochloromethane	8.547	129	123559	6.578	ug/L #	12
50) 1,2-Dibromoethane	8.920	107	1912	0.123	ug/L #	99
51) Chlorobenzene	9.444	112	8394	0.133	ug/L	95
52) Ethylbenzene	9.569	91	14243	0.130	ug/L	99
53) m,p-Xylene	9.692	106	6695	0.167	ug/L	86

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QLast Update : Tue Nov 14 00:08:30 2023
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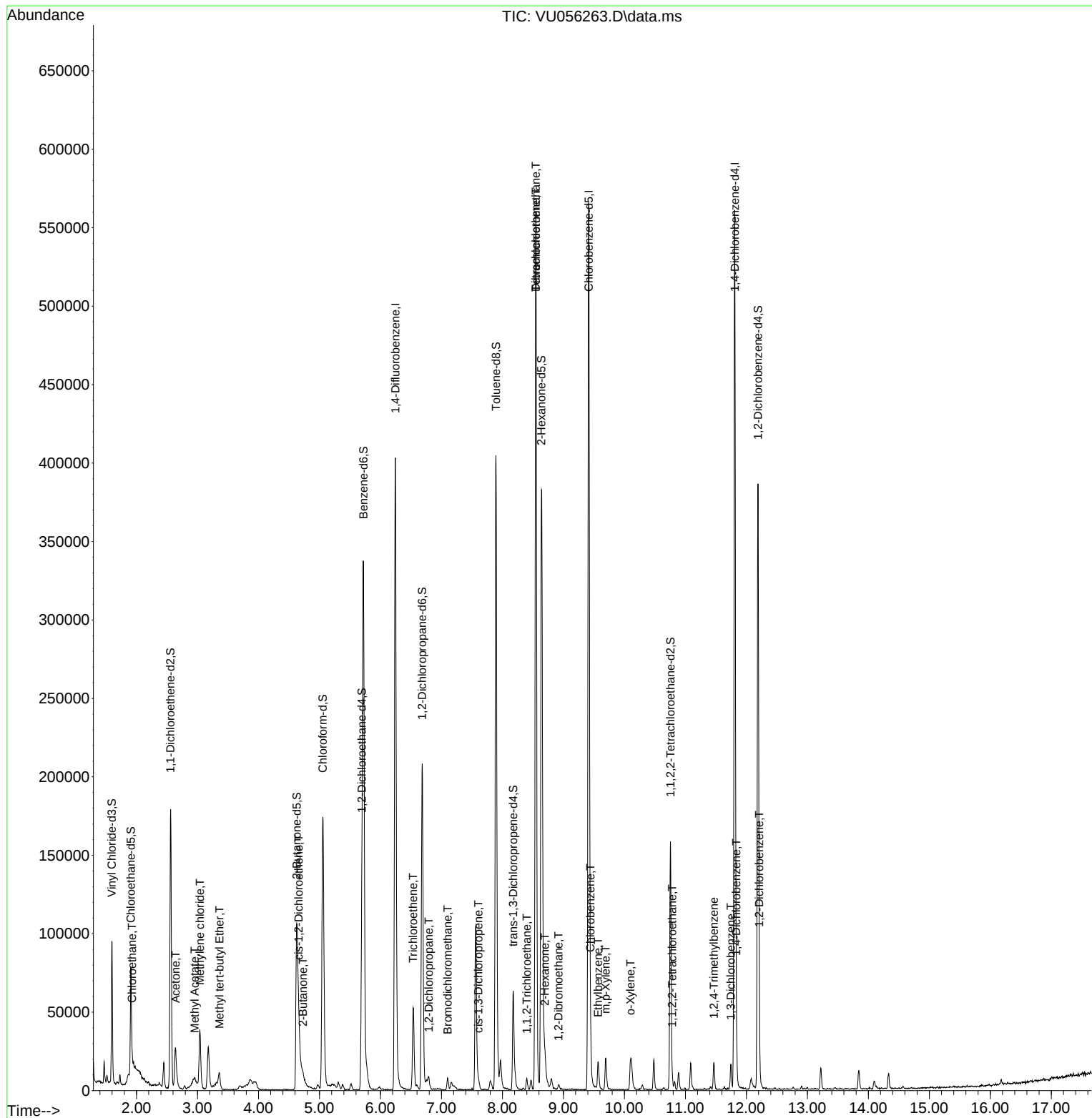
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.100	106	4693	0.120	ug/L	92
57) 1,1,2,2-Tetrachloroethane	10.785	83	3404	0.169	ug/L #	88
63) 1,2,4-Trimethylbenzene	11.470	105	10821	0.138	ug/L	96
64) 1,3-Dichlorobenzene	11.746	146	6575	0.150	ug/L	94
65) 1,4-Dichlorobenzene	11.836	146	7054	0.160	ug/L	91
67) 1,2-Dichlorobenzene	12.212	146	6469	0.161	ug/L	93

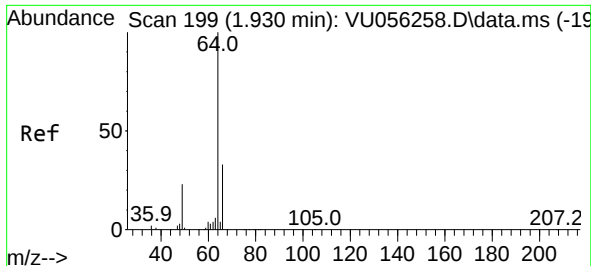
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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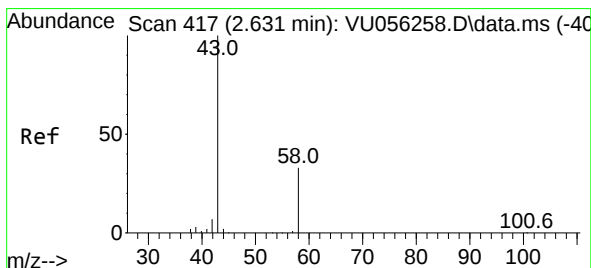
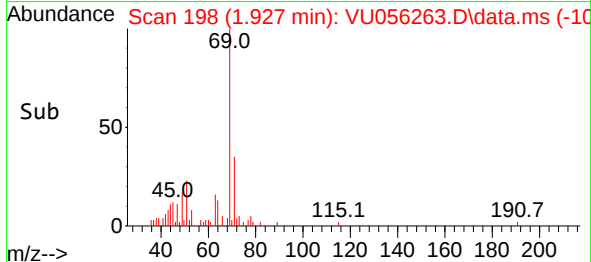
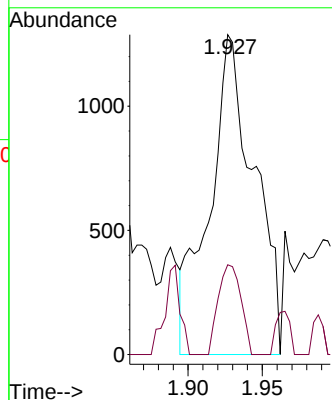
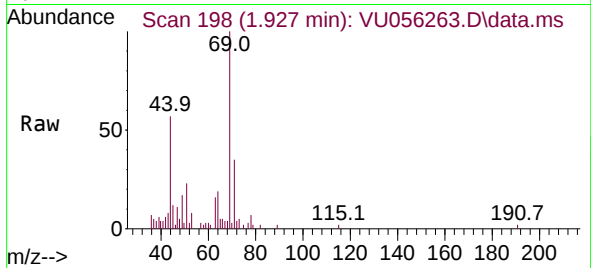




#8
Chloroethane
Concen: 0.169 ug/L
RT: 1.927 min Scan# 19
Delta R.T. -0.003 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

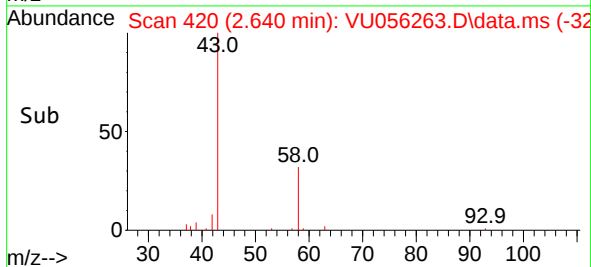
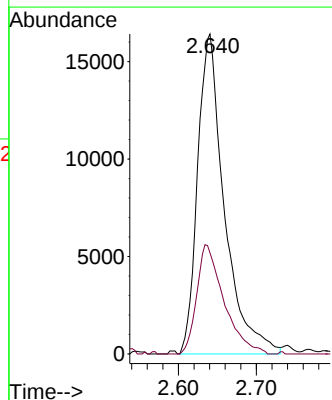
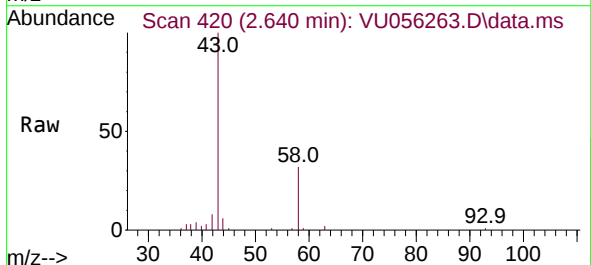
Instrument :
MSVOA_U
ClientSampleId :

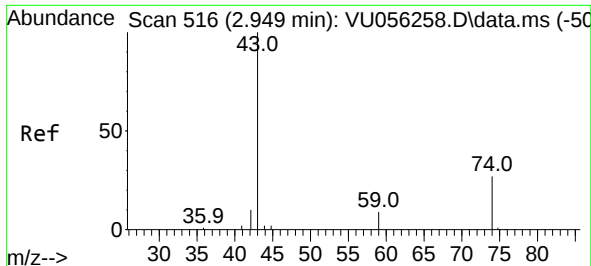
Tgt Ion: 64 Resp: 2707
Ion Ratio Lower Upper
64 100
66 28.1 23.9 44.5



#13
Acetone
Concen: 9.194 ug/L
RT: 2.640 min Scan# 420
Delta R.T. 0.010 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

Tgt Ion: 43 Resp: 39146
Ion Ratio Lower Upper
43 100
58 34.7 0.0 70.0

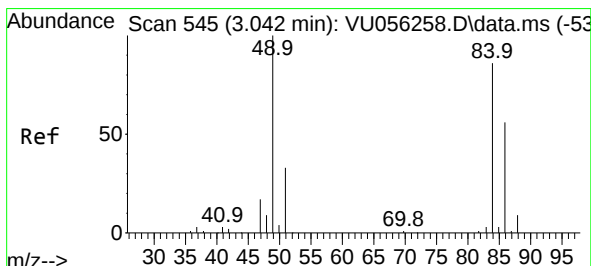
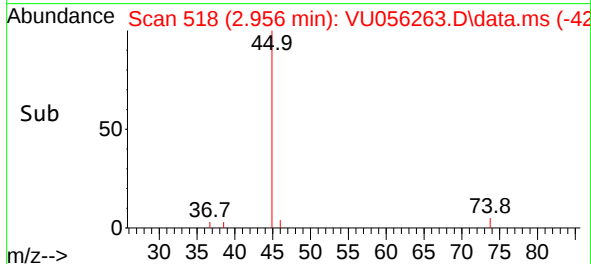
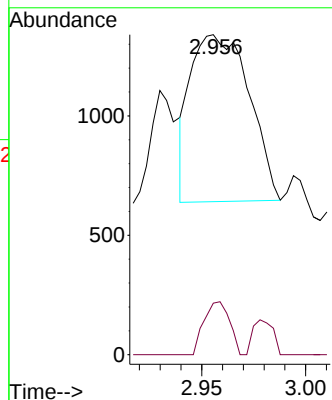
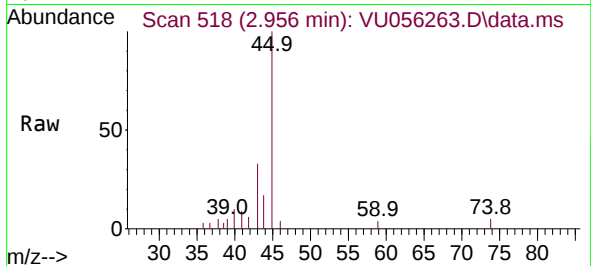




#15
Methyl Acetate
Concen: 0.181 ug/L
RT: 2.956 min Scan# 516
Delta R.T. 0.006 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

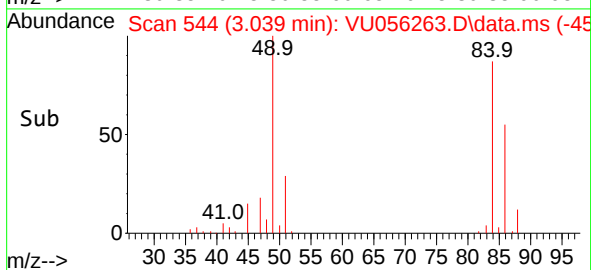
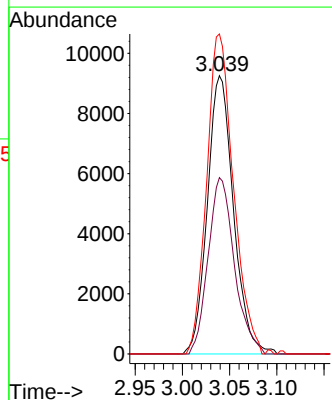
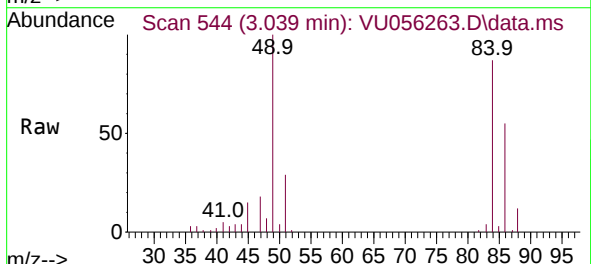
Instrument :
MSVOA_U
ClientSampleId :

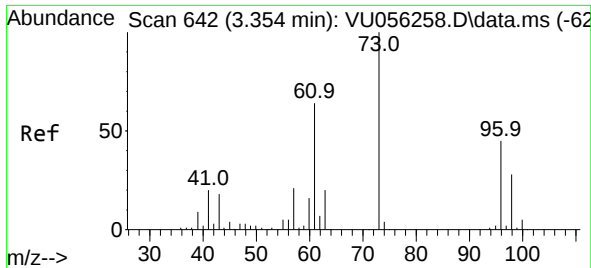
Tgt Ion: 43 Resp: 1369
Ion Ratio Lower Upper
43 100
74 13.9 20.6 31.0#



#16
Methylene chloride
Concen: 0.656 ug/L
RT: 3.039 min Scan# 544
Delta R.T. -0.003 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

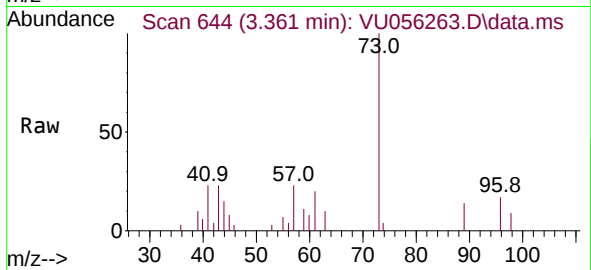
Tgt Ion: 84 Resp: 17817
Ion Ratio Lower Upper
84 100
86 63.4 44.7 83.1
49 115.0 81.8 152.0



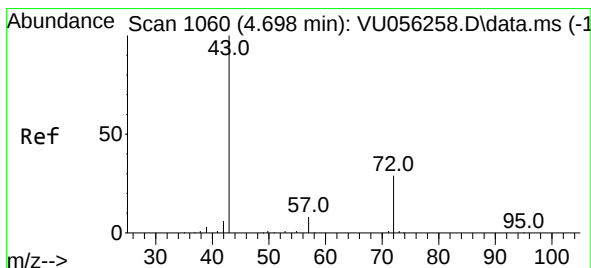
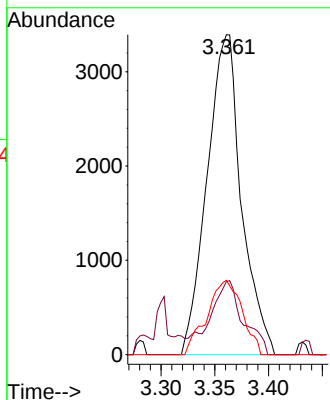
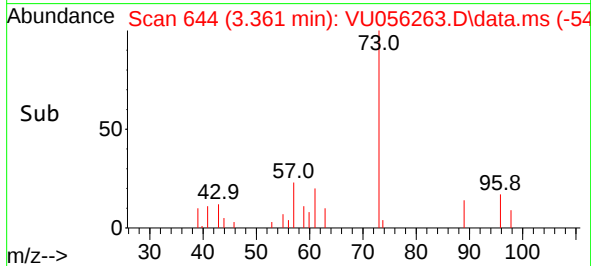


#17
Methyl tert-butyl Ether
Concen: 0.151 ug/L
RT: 3.361 min Scan# 642
Delta R.T. 0.006 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

Instrument :
MSVOA_U
ClientSampleId :

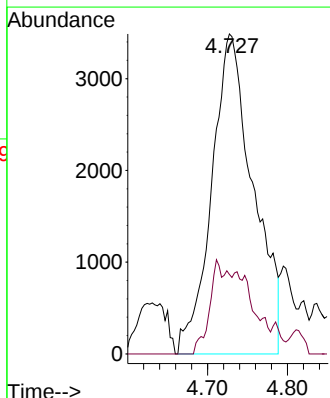
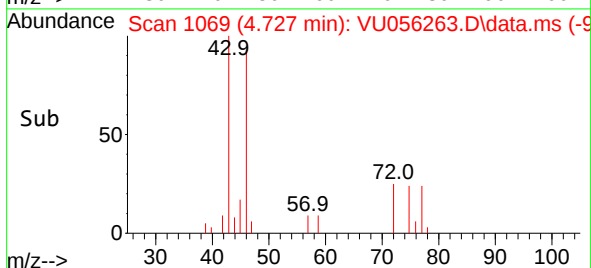
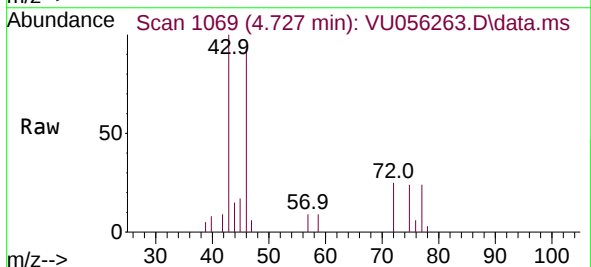


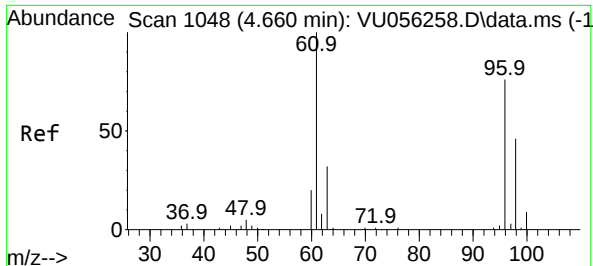
Tgt Ion: 73 Resp: 7549
Ion Ratio Lower Upper
73 100
43 22.9 15.1 22.7#
57 23.8 17.8 26.8



#21
2-Butanone
Concen: 2.283 ug/L
RT: 4.727 min Scan# 1069
Delta R.T. 0.029 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

Tgt Ion: 43 Resp: 12614
Ion Ratio Lower Upper
43 100
72 9.9 14.2 42.6#





#22

cis-1,2-Dichloroethene

Concen: 0.172 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. -0.000 min

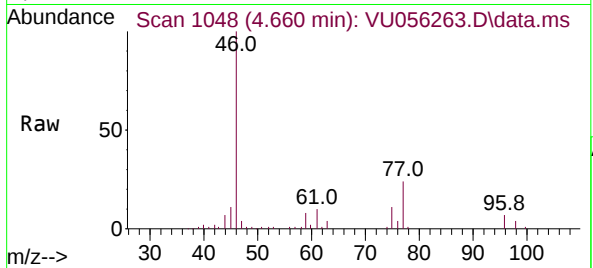
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Acq: 13 Nov 2023 20:06

Instrument :

MSVOA_U

ClientSampleId :



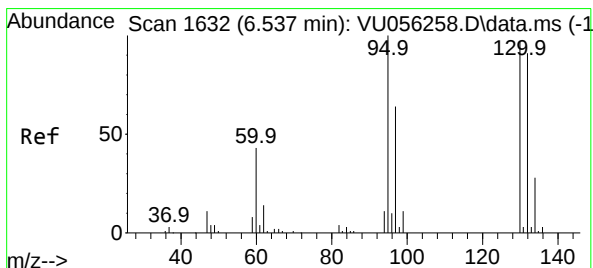
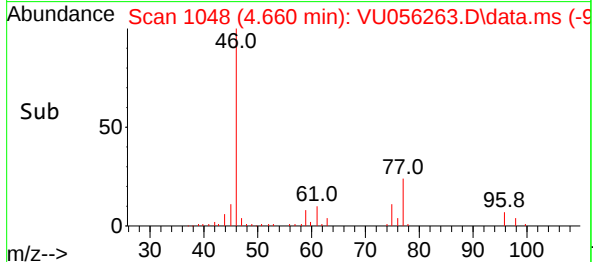
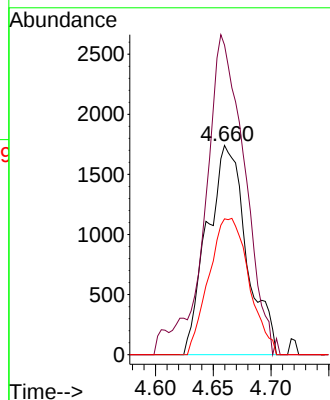
Tgt Ion: 96 Resp: 4129

Ion Ratio Lower Upper

96 100

61 148.0 93.2 173.2

98 65.0 44.8 83.2



#34

Trichloroethene

Concen: 0.716 ug/L

RT: 6.537 min Scan# 1632

Delta R.T. -0.000 min

Lab File: VU056263.D

Acq: 13 Nov 2023 20:06

Tgt Ion: 95 Resp: 18545

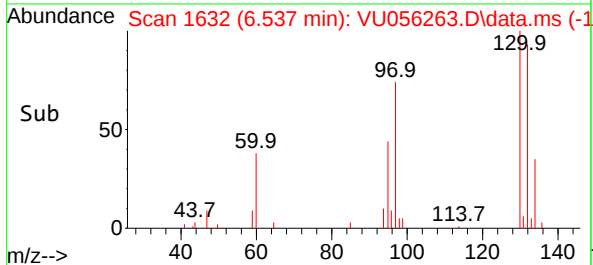
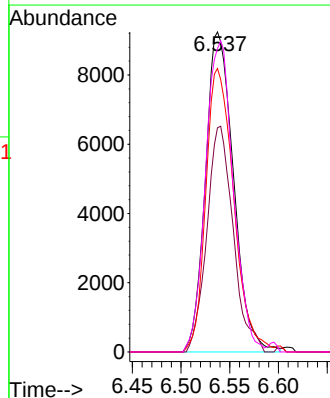
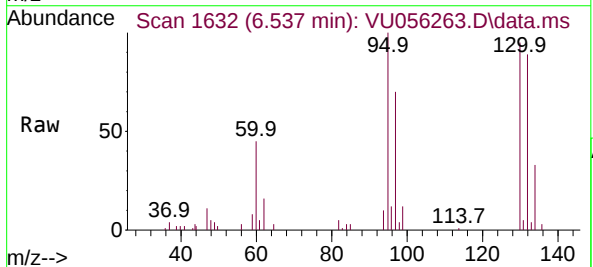
Ion Ratio Lower Upper

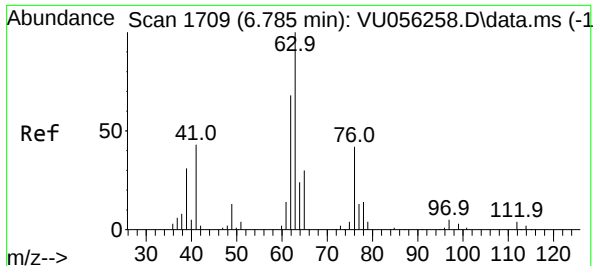
95 100

97 70.0 46.5 86.3

132 88.6 62.0 115.2

130 94.8 66.3 123.1





#37

1,2-Dichloropropane

Concen: 0.128 ug/L

RT: 6.791 min Scan# 11

Delta R.T. 0.006 min

Lab File: VU056263.D

Acq: 13 Nov 2023 20:06

Instrument :

MSVOA_U

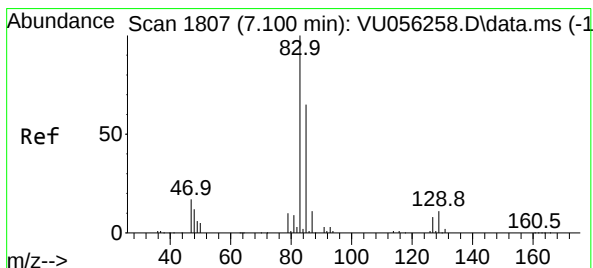
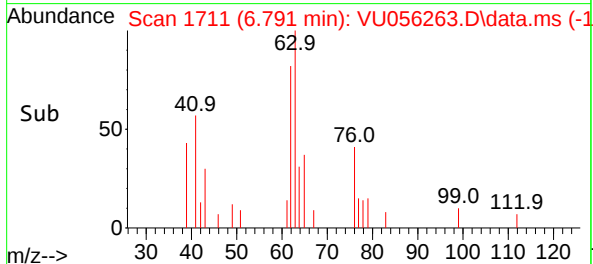
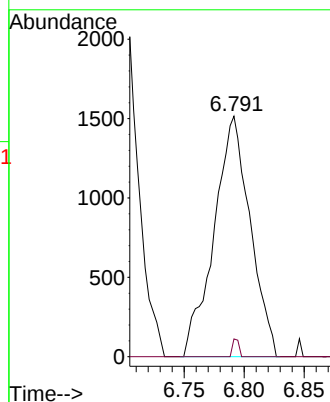
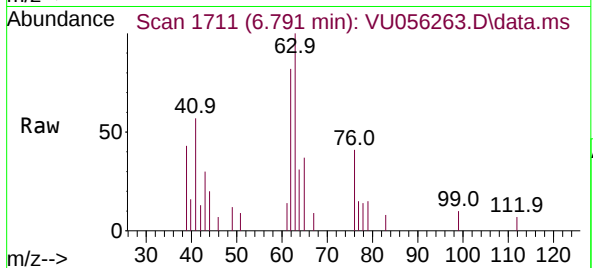
ClientSampleId :

Tgt Ion: 63 Resp: 3181

Ion Ratio Lower Upper

63 100

112 1.3 3.2 4.8#



#38

Bromodichloromethane

Concen: 0.167 ug/L

RT: 7.103 min Scan# 1808

Delta R.T. 0.003 min

Lab File: VU056263.D

Acq: 13 Nov 2023 20:06

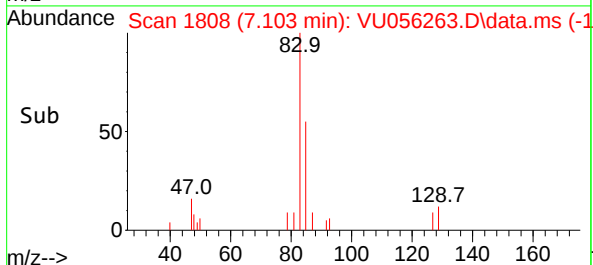
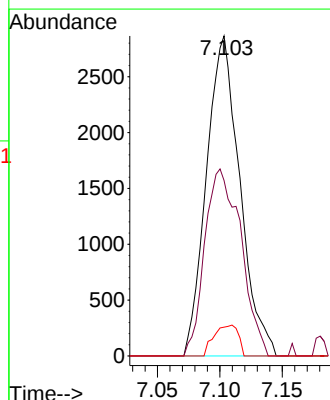
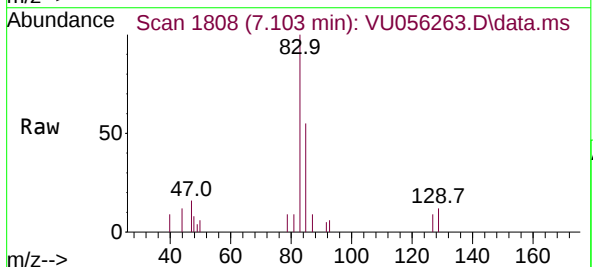
Tgt Ion: 83 Resp: 5343

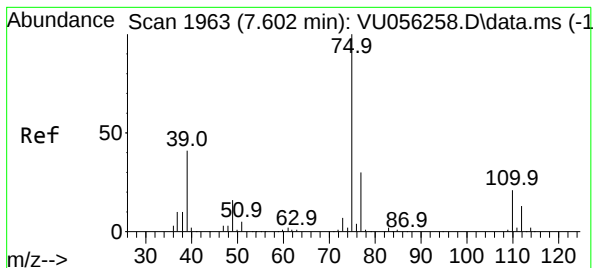
Ion Ratio Lower Upper

83 100

85 54.8 44.9 83.5

127 9.0 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 0.115 ug/L

RT: 7.605 min Scan# 1963

Delta R.T. 0.003 min

Lab File: VU056263.D

Acq: 13 Nov 2023 20:06

Instrument :

MSVOA_U

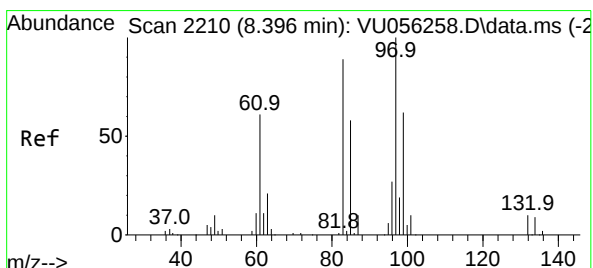
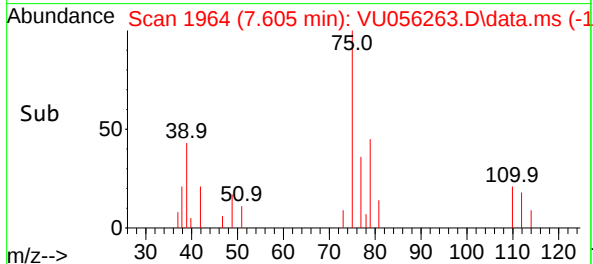
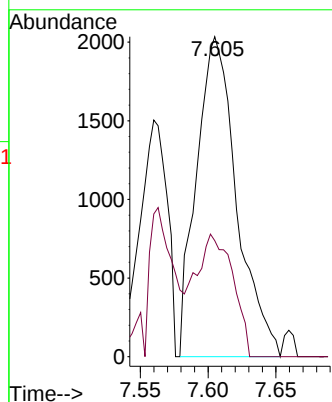
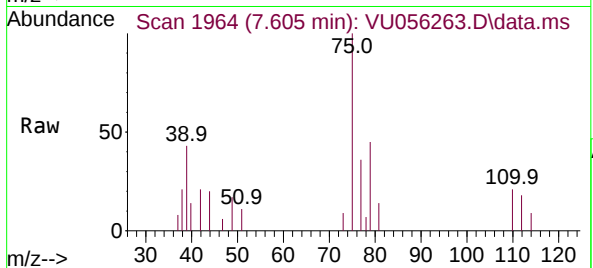
ClientSampleId :

Tgt Ion: 75 Resp: 4200

Ion Ratio Lower Upper

75 100

77 36.3 21.5 39.9



#45

1,1,2-Trichloroethane

Concen: 0.143 ug/L

RT: 8.399 min Scan# 2211

Delta R.T. 0.003 min

Lab File: VU056263.D

Acq: 13 Nov 2023 20:06

Tgt Ion: 97 Resp: 2366

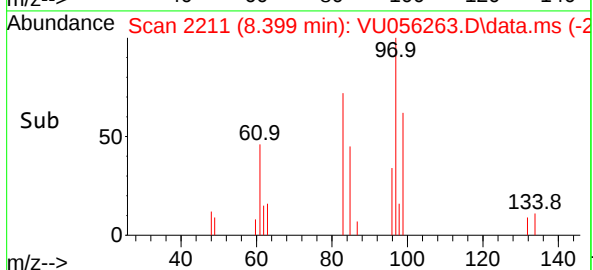
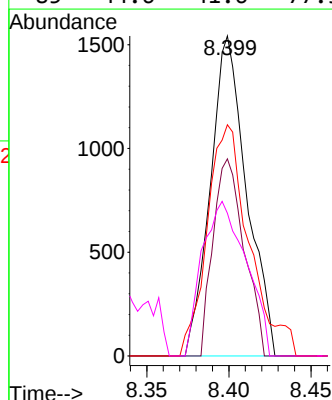
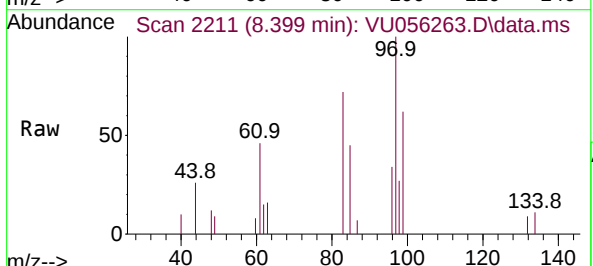
Ion Ratio Lower Upper

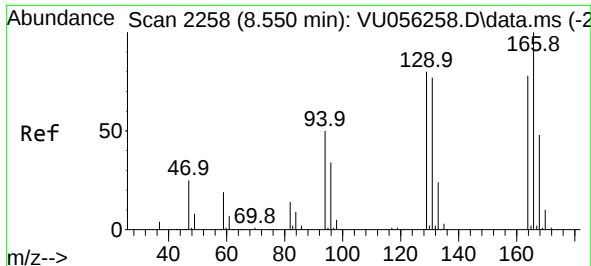
97 100

99 61.6 44.3 82.3

83 72.2 65.4 121.4

85 44.6 41.6 77.3





#47

Tetrachloroethene

Concen: 6.833 ug/L

RT: 8.547 min Scan# 21

Delta R.T. -0.003 min

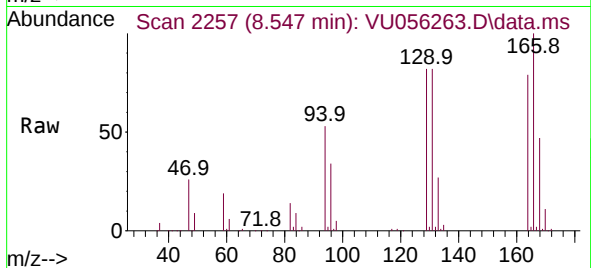
Lab File: VU056263.D

Acq: 13 Nov 2023 20:06

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 119382

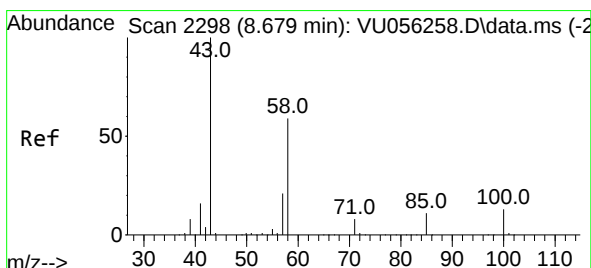
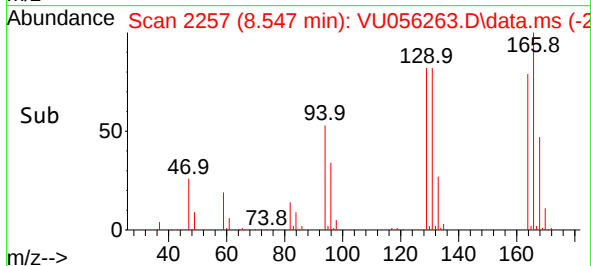
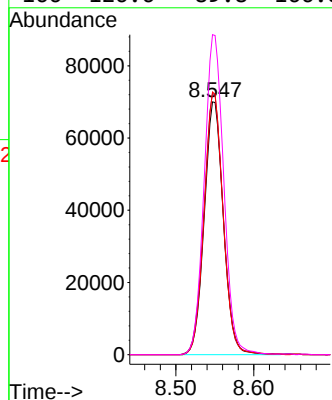
Ion Ratio Lower Upper

164 100

129 103.5 71.0 131.9

131 104.0 70.3 130.7

166 126.6 89.8 166.8



#48

2-Hexanone

Concen: 1.236 ug/L

RT: 8.698 min Scan# 2304

Delta R.T. 0.019 min

Lab File: VU056263.D

Acq: 13 Nov 2023 20:06

Tgt Ion: 43 Resp: 11842

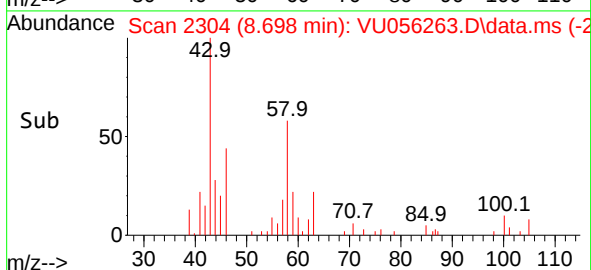
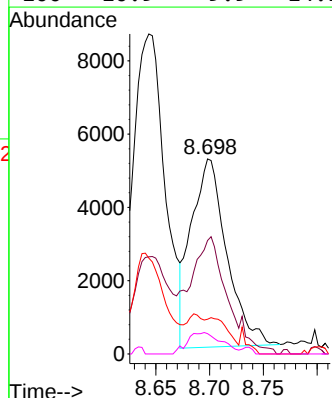
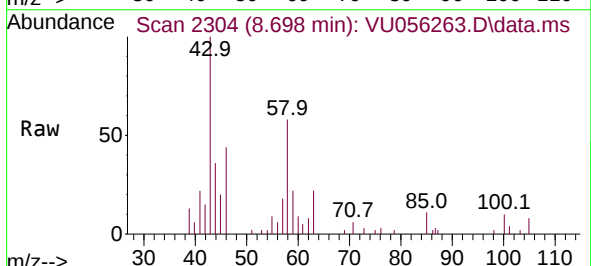
Ion Ratio Lower Upper

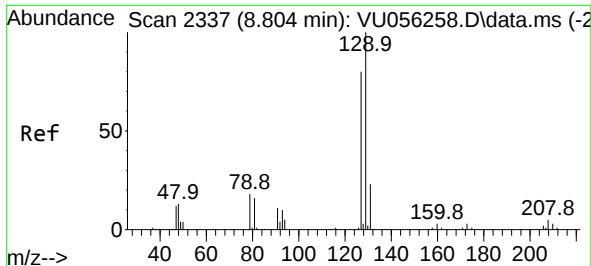
43 100

58 57.6 48.7 73.1

57 2.2 16.8 25.2#

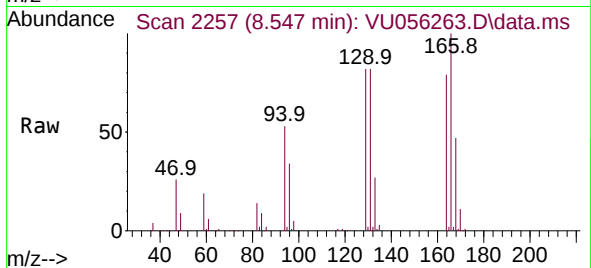
100 10.9 9.9 14.9



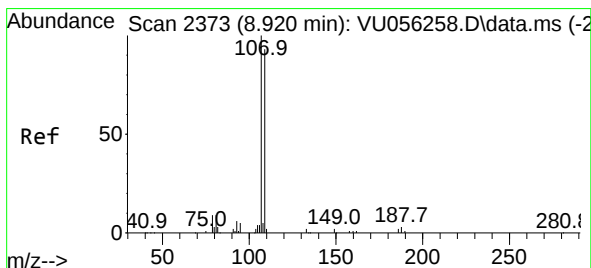
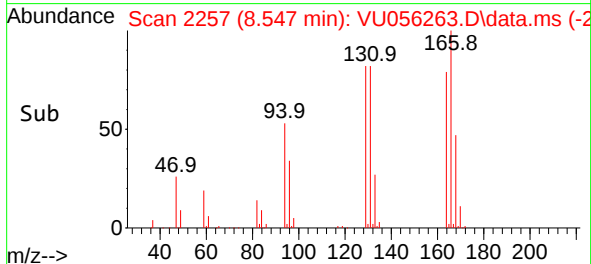
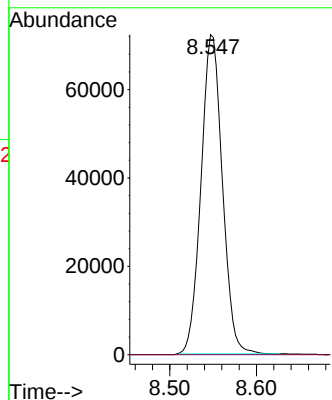


#49
Dibromochloromethane
Concen: 6.578 ug/L
RT: 8.547 min Scan# 21
Delta R.T. -0.257 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

Instrument :
MSVOA_U
ClientSampleId :

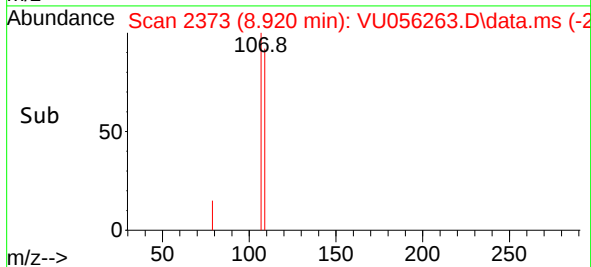
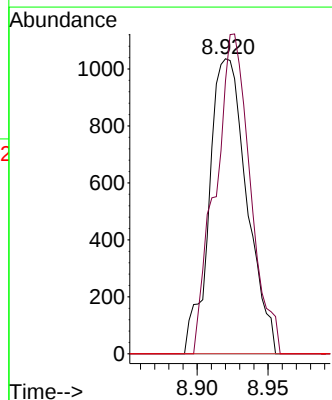
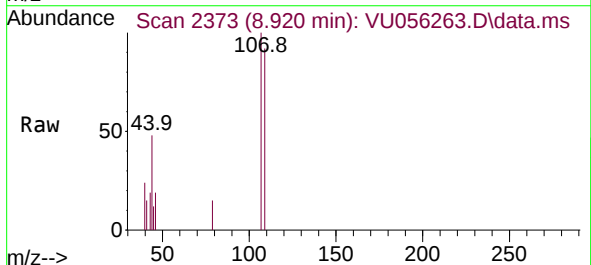


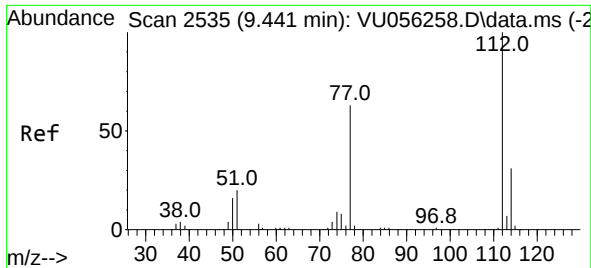
Tgt Ion:129 Resp: 123559
Ion Ratio Lower Upper
129 100
127 0.0 52.9 98.3#



#50
1,2-Dibromoethane
Concen: 0.123 ug/L
RT: 8.920 min Scan# 2373
Delta R.T. -0.000 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

Tgt Ion:107 Resp: 1912
Ion Ratio Lower Upper
107 100
109 92.5 64.2 119.2
188 0.0 2.6 4.0#

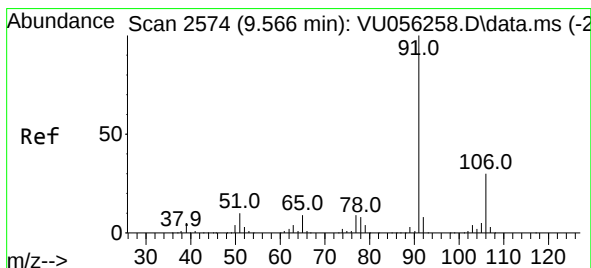
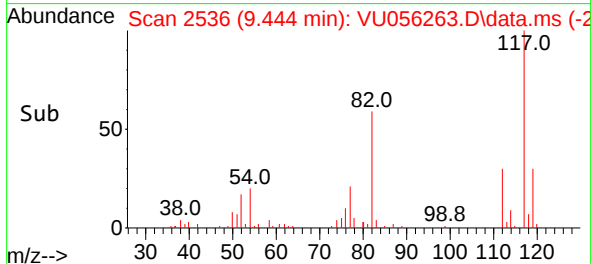
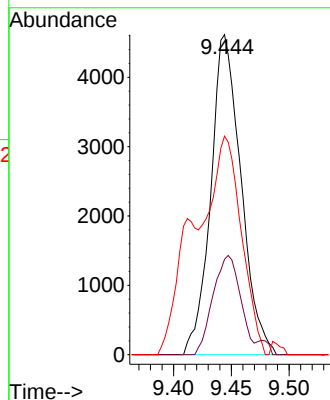
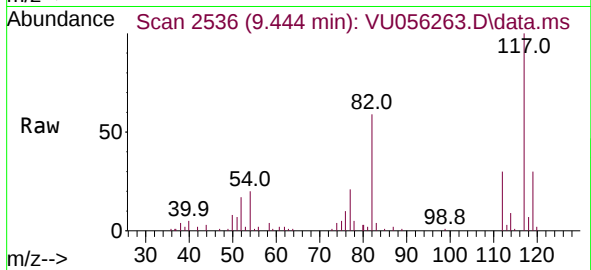




#51
Chlorobenzene
Concen: 0.133 ug/L
RT: 9.444 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

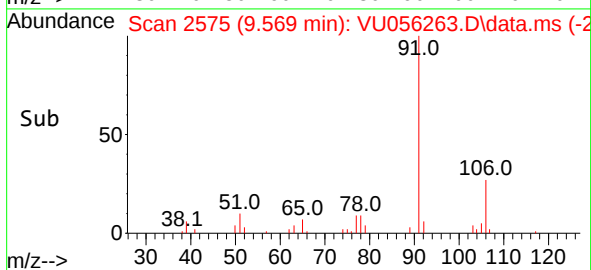
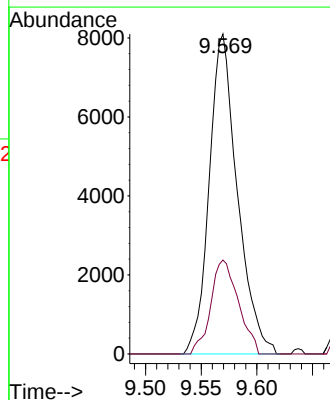
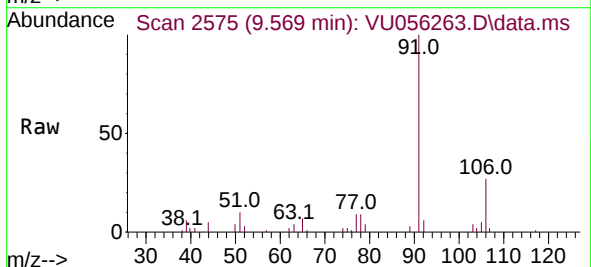
Instrument :
MSVOA_U
ClientSampleId :

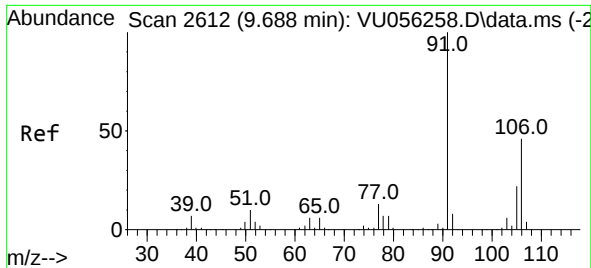
Tgt Ion:112 Resp: 8394
Ion Ratio Lower Upper
112 100
114 29.8 22.5 41.7
77 68.3 51.7 77.5



#52
Ethylbenzene
Concen: 0.130 ug/L
RT: 9.569 min Scan# 2575
Delta R.T. 0.003 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

Tgt Ion: 91 Resp: 14243
Ion Ratio Lower Upper
91 100
106 29.3 21.1 39.1

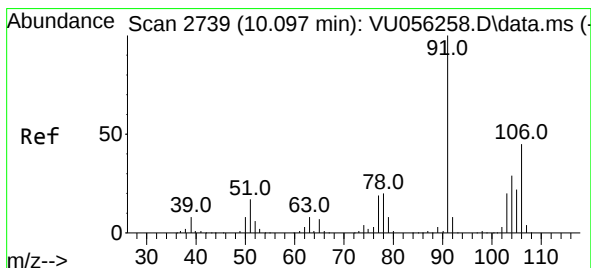
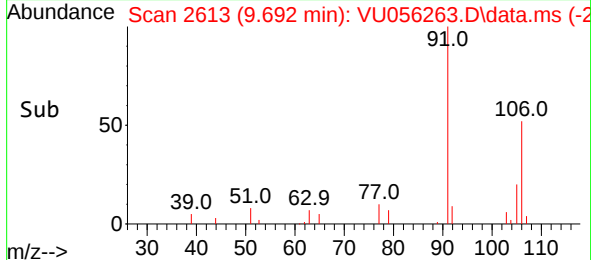
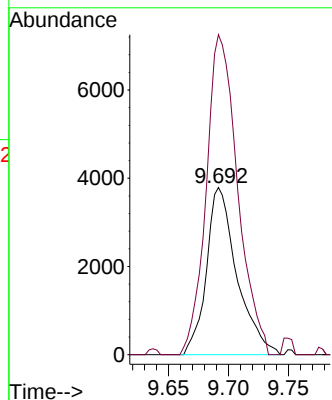
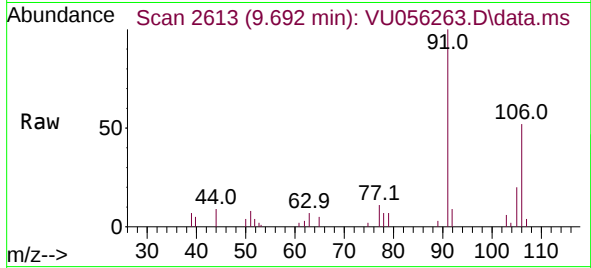




#53
m,p-Xylene
Concen: 0.167 ug/L
RT: 9.692 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

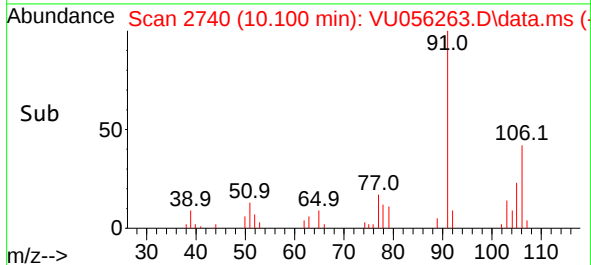
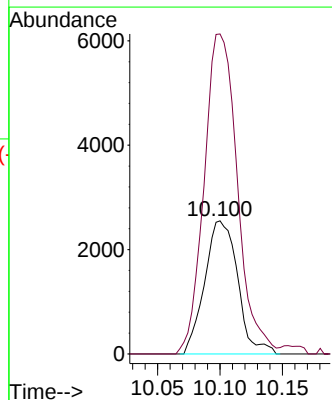
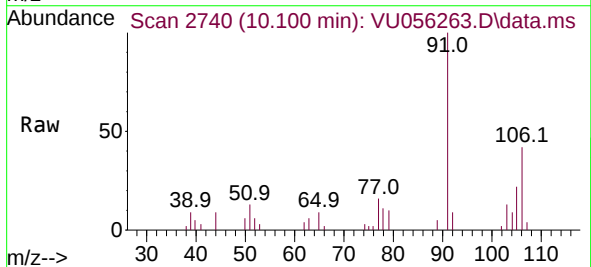
Instrument :
MSVOA_U
ClientSampleId :

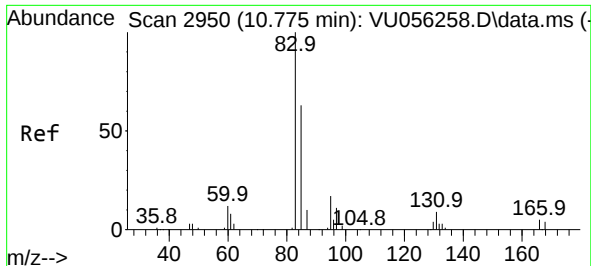
Tgt Ion:106 Resp: 6695
Ion Ratio Lower Upper
106 100
91 191.4 149.6 277.8



#54
o-Xylene
Concen: 0.120 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. 0.003 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

Tgt Ion:106 Resp: 4693
Ion Ratio Lower Upper
106 100
91 240.3 159.3 295.9





#57

1,1,2,2-Tetrachloroethane

Concen: 0.169 ug/L

RT: 10.785 min Scan# 2950

Delta R.T. 0.010 min

Lab File: VU056263.D

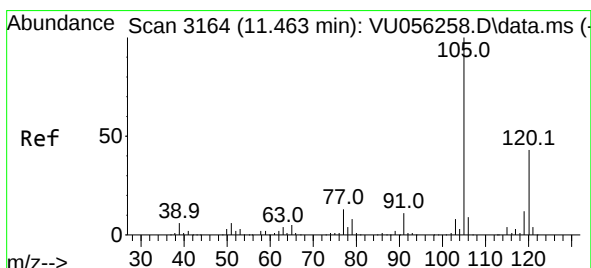
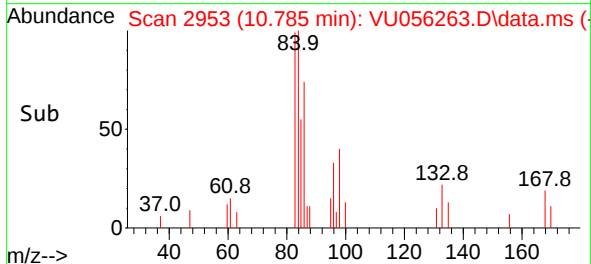
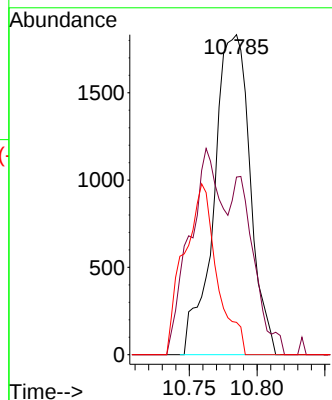
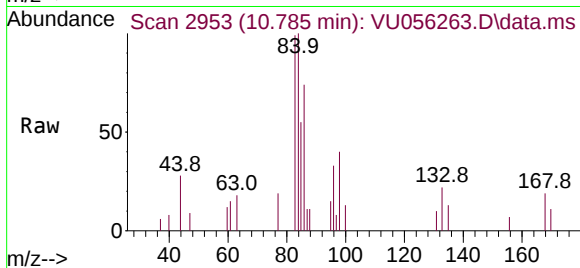
Acq: 13 Nov 2023 20:06

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp:	3404
Ion Ratio	Lower	Upper
83	100	
85	55.5	46.3 86.1
131	10.1	6.7 10.1#



#63

1,2,4-Trimethylbenzene

Concen: 0.138 ug/L

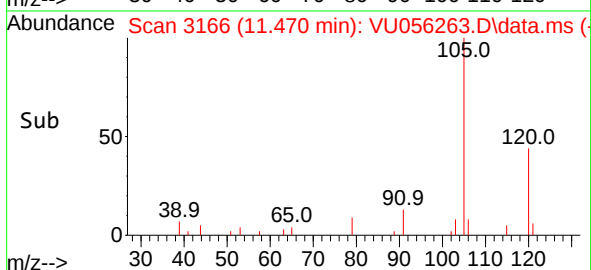
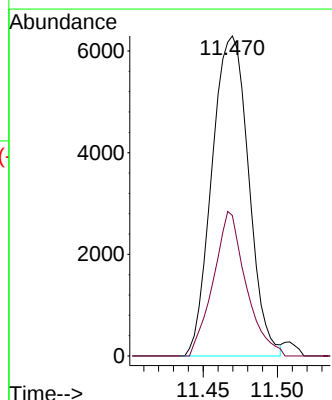
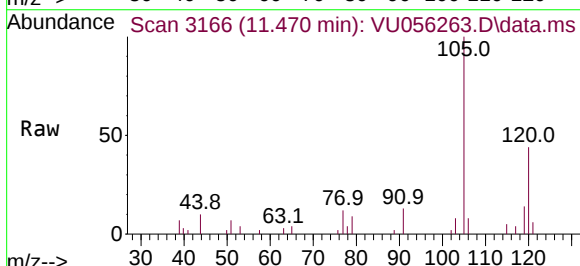
RT: 11.470 min Scan# 3166

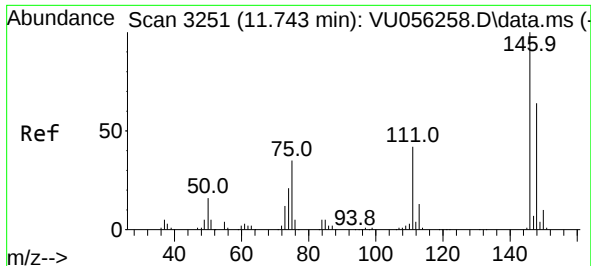
Delta R.T. 0.006 min

Lab File: VU056263.D

Acq: 13 Nov 2023 20:06

Tgt Ion: 105	Resp:	10821
Ion Ratio	Lower	Upper
105	100	
120	40.2	34.0 51.0

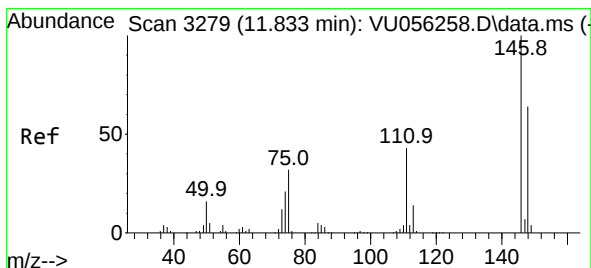
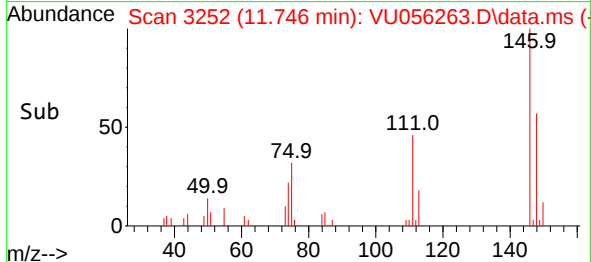
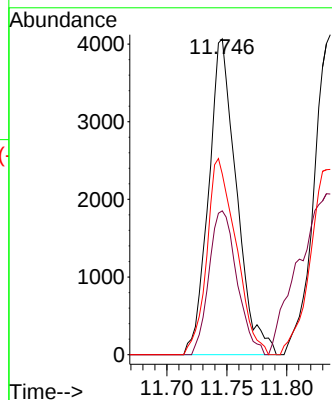
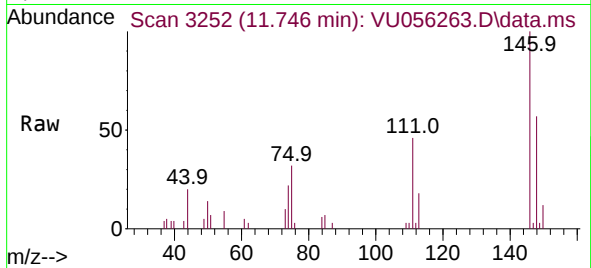




#64
1,3-Dichlorobenzene
Concen: 0.150 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

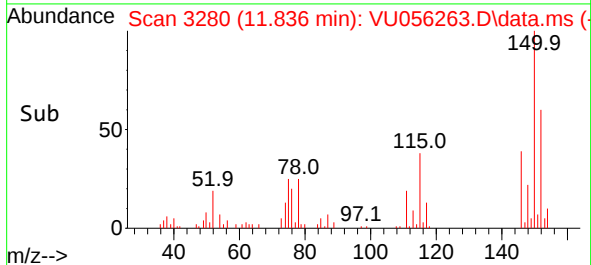
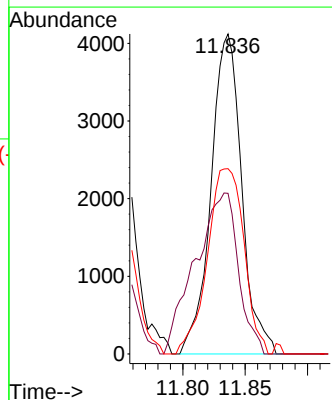
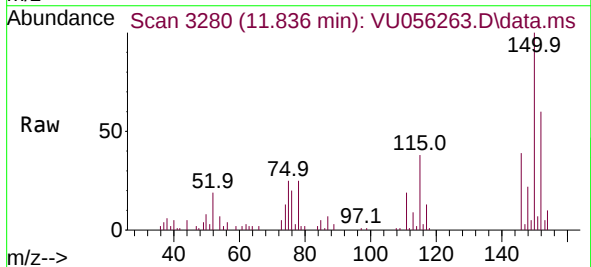
Instrument :
MSVOA_U
ClientSampleId :

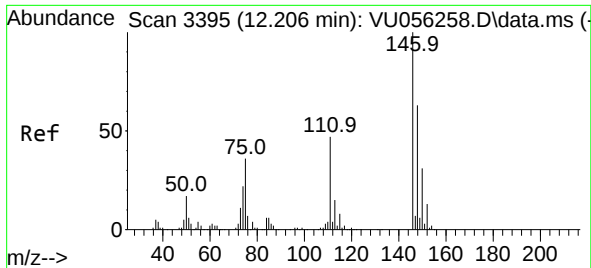
Tgt Ion:146 Resp: 6575
Ion Ratio Lower Upper
146 100
111 45.6 31.1 57.7
148 57.2 45.1 83.9



#65
1,4-Dichlorobenzene
Concen: 0.160 ug/L
RT: 11.836 min Scan# 3280
Delta R.T. 0.003 min
Lab File: VU056263.D
Acq: 13 Nov 2023 20:06

Tgt Ion:146 Resp: 7054
Ion Ratio Lower Upper
146 100
111 50.2 30.5 56.7
148 57.9 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 0.161 ug/L

RT: 12.212 min Scan# 31

Delta R.T. 0.006 min

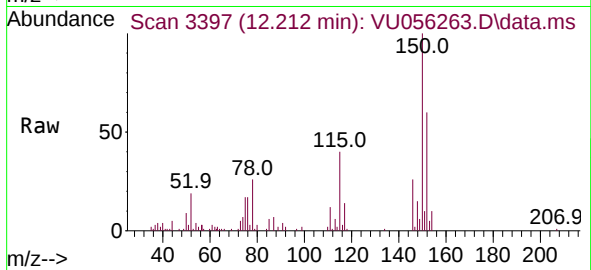
Lab File: VU056263.D

Acq: 13 Nov 2023 20:06

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:146 Resp: 6469

Ion Ratio Lower Upper

146 100

111 46.7 38.3 57.5

148 56.5 52.2 78.4

