

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120921\
 Data File : VU046224.D
 Acq On : 09 Dec 2021 16:59
 Operator : SY/MD
 Sample : M4983-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 03:45:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	197275	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	206290	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	114059	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	81497	50.150	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.300%
7) Chloroethane-d5	1.919	69	60980	48.874	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.740%
11) 1,1-Dichloroethene-d2	2.575	63	128064	43.899	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.800%
21) 2-Butanone-d5	4.642	46	132308	102.419	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.420%
24) Chloroform-d	5.066	84	124790	45.984	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.960%
26) 1,2-Dichloroethane-d4	5.706	65	89410	49.093	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.180%
32) Benzene-d6	5.732	84	289648	48.988	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.980%
36) 1,2-Dichloropropane-d6	6.693	67	89614	48.904	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.800%
41) Toluene-d8	7.899	98	262093	48.685	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.380%
43) trans-1,3-Dichloroprop...	8.179	79	46559	52.634	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.260%
47) 2-Hexanone-d5	8.635	63	90066	103.665	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.660%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	139830	50.318	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.640%
66) 1,2-Dichlorobenzene-d4	12.195	152	108954	49.602	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.200%
Target Compounds						
5) Vinyl chloride	1.607	62	721	0.372	ug/L #	1
9) Trichlorofluoromethane	2.144	101	6935	2.744	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	968	0.674	ug/L #	21
12) 1,1-Dichloroethene	2.587	96	39434	28.910	ug/L	87
17) trans-1,2-Dichloroethene	3.359	96	27025	18.722	ug/L	98
19) 1,1-Dichloroethane	3.877	63	515414	196.376	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	3629737	2317.392	ug/L	99
25) Chloroform	5.092	83	23339	8.003	ug/L	97
27) 1,2-Dichloroethane	5.800	62	7647	3.534	ug/L	99
30) 1,1,1-Trichloroethane	5.324	97	3827136	1511.375	ug/L	98
33) Benzene	5.777	78	12378	1.983	ug/L	100
34) Trichloroethene	6.546	95	17736	10.783	ug/L	96
37) 1,2-Dichloropropane	6.693	63	9884	6.043	ug/L #	86
39) cis-1,3-Dichloropropene	7.565	75	2737	1.100	ug/L #	67
42) Toluene	7.973	91	146212	21.824	ug/L	99
44) trans-1,3-Dichloropropene	8.182	75	1947	0.797	ug/L #	59
45) 1,1,2-Trichloroethane	8.401	97	3818	2.327	ug/L	95
46) Tetrachloroethene	8.555	164	21521	17.804	ug/L	95
49) Dibromochloromethane	8.555	129	20024	11.621	ug/L #	10

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120921\
 Data File : VU046224.D
 Acq On : 09 Dec 2021 16:59
 Operator : SY/MD
 Sample : M4983-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 03:45:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

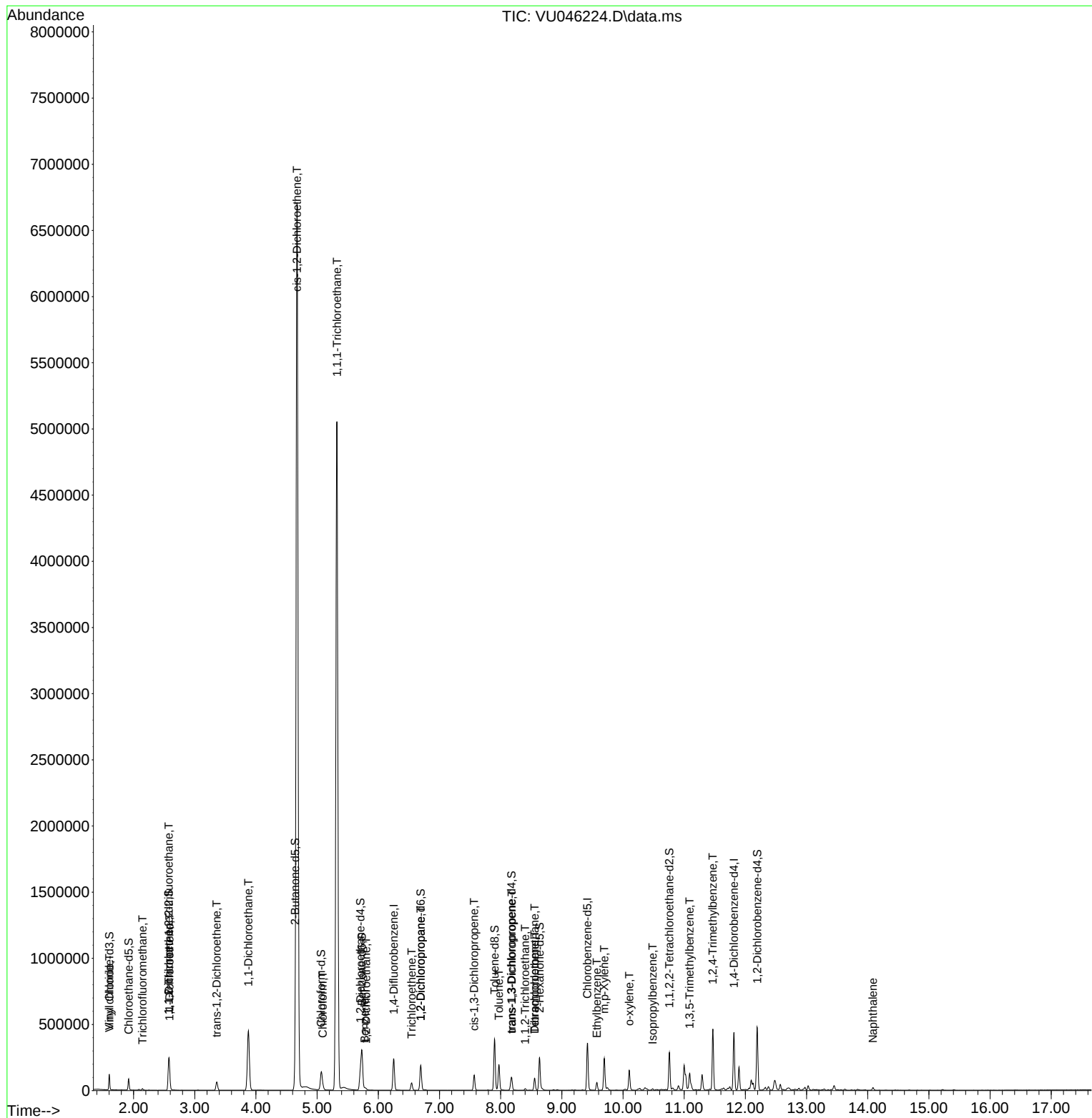
52) Ethylbenzene	9.571	91	42849	5.943	ug/L	99
53) m,p-Xylene	9.693	106	71582	25.457	ug/L	98
54) o-xylene	10.102	106	42328	15.514	ug/L	95
61) Isopropylbenzene	10.484	105	7055	0.951	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	69266	11.198	ug/L	100
63) 1,2,4-Trimethylbenzene	11.468	105	256893	41.510	ug/L	99
71) Naphthalene	14.085	128	16540	2.085	ug/L	99

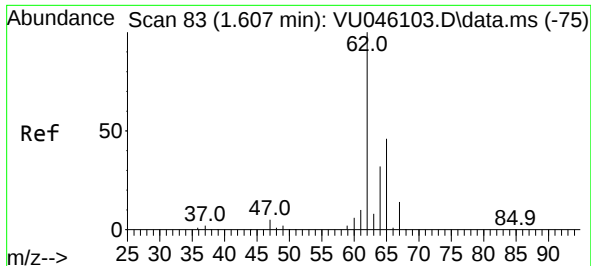
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120921\
Data File : VU046224.D
Acq On : 09 Dec 2021 16:59
Operator : SY/MD
Sample : M4983-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Dec 10 03:45:15 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

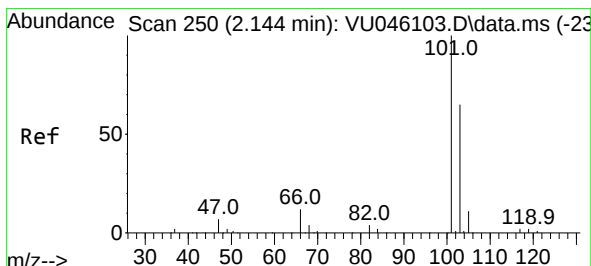
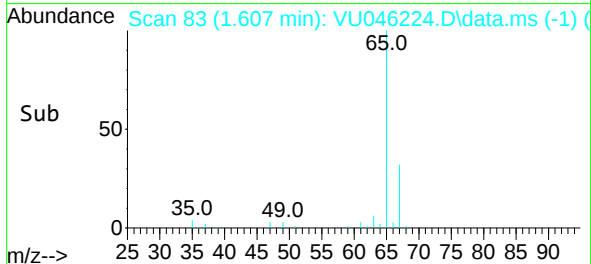
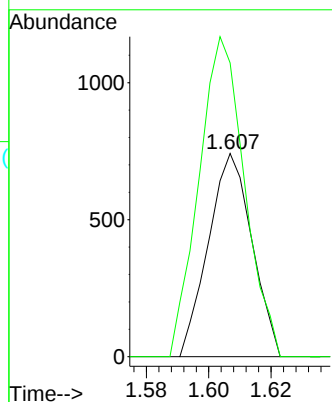
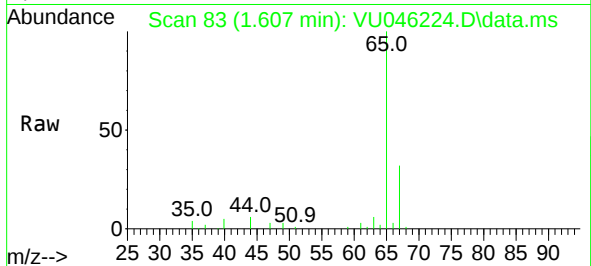




#5
 Vinyl chloride
 Concen: 0.372 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU046224.D
 Acq: 09 Dec 2021 16:59

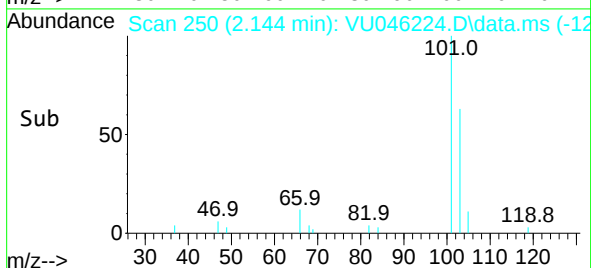
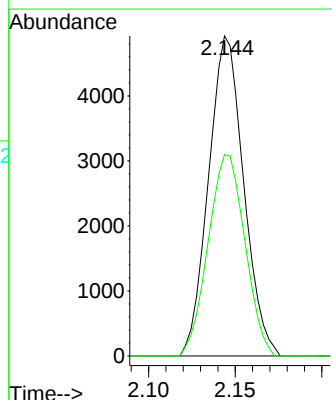
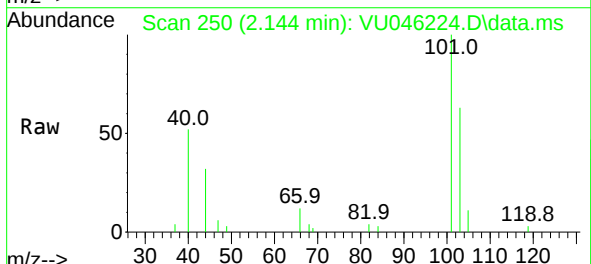
Instrument :
 MSVOA_U
 ClientSampleId :

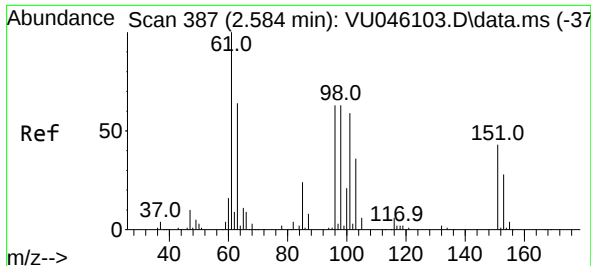
Tgt Ion: 62 Resp: 721
 Ion Ratio Lower Upper
 62 100
 64 144.5 22.9 42.5#



#9
 Trichlorofluoromethane
 Concen: 2.744 ug/L
 RT: 2.144 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: VU046224.D
 Acq: 09 Dec 2021 16:59

Tgt Ion: 101 Resp: 6935
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.8 77.6

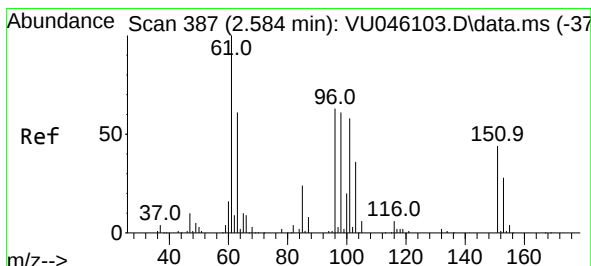
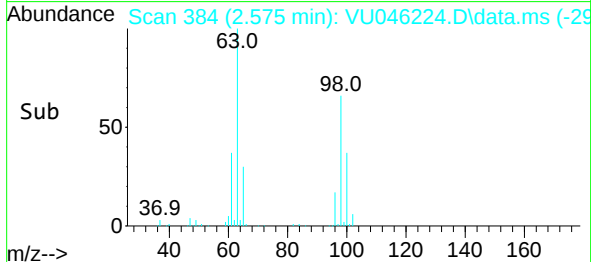
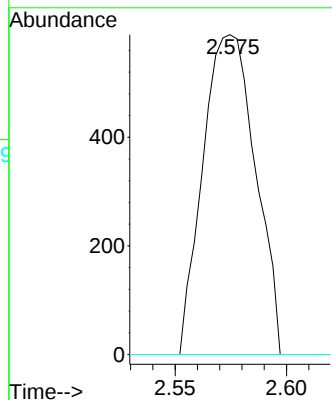
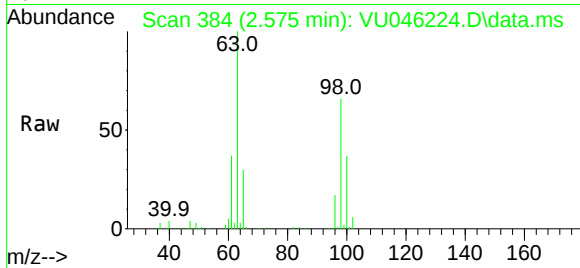




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.674 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.013 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

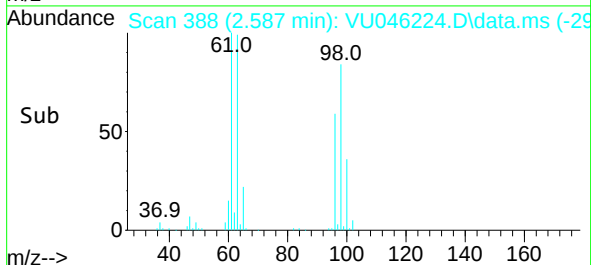
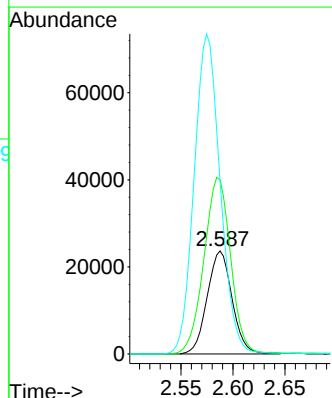
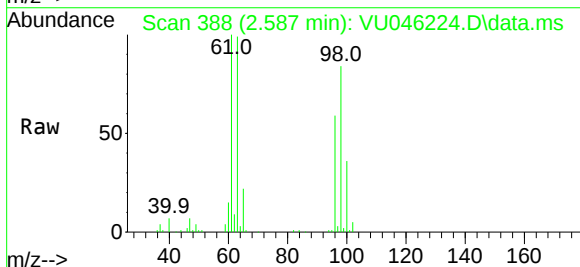
Instrument :
MSVOA_U
ClientSampleId :

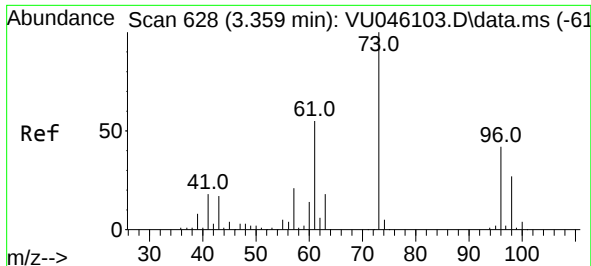
Tgt Ion:101 Resp: 968
Ion Ratio Lower Upper
101 100
85 0.0 35.1 52.7#
151 0.0 56.7 85.1#



#12
1,1-Dichloroethene
Concen: 28.910 ug/L
RT: 2.587 min Scan# 388
Delta R.T. 0.003 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

Tgt Ion: 96 Resp: 39434
Ion Ratio Lower Upper
96 100
61 168.9 118.6 220.2
63 167.6 93.0 172.8





#17

trans-1,2-Dichloroethene

Concen: 18.722 ug/L

RT: 3.359 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU046224.D

Acq: 09 Dec 2021 16:59

Instrument :

MSVOA_U

ClientSampleId :

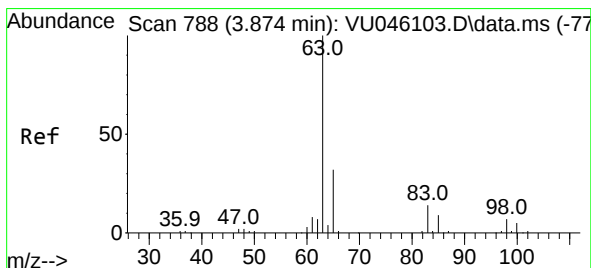
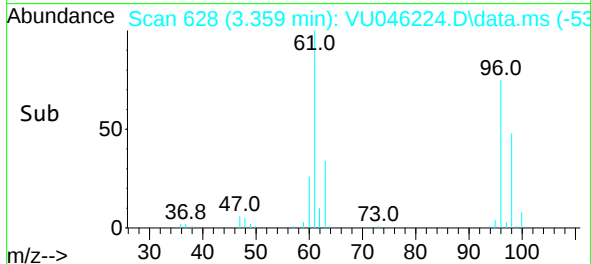
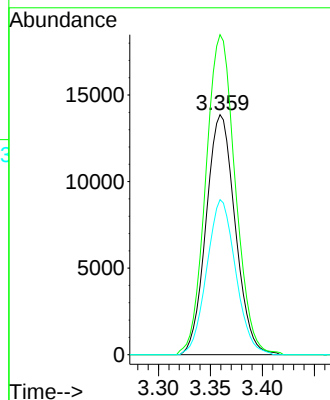
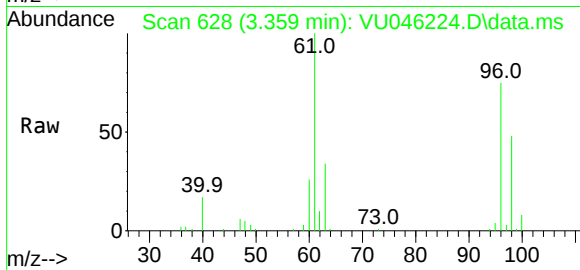
Tgt Ion: 96 Resp: 27025

Ion Ratio Lower Upper

96 100

61 133.3 94.6 175.6

98 64.6 44.0 81.8



#19

1,1-Dichloroethane

Concen: 196.376 ug/L

RT: 3.877 min Scan# 789

Delta R.T. -0.000 min

Lab File: VU046224.D

Acq: 09 Dec 2021 16:59

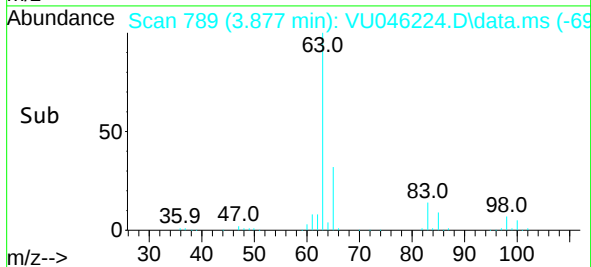
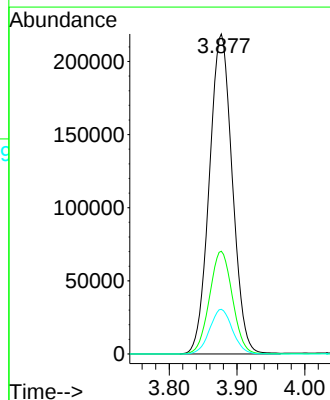
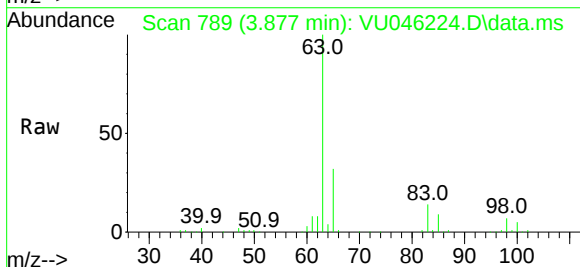
Tgt Ion: 63 Resp: 515414

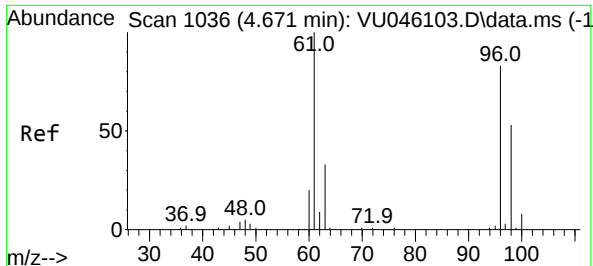
Ion Ratio Lower Upper

63 100

65 32.1 22.8 42.4

83 14.0 9.6 17.8

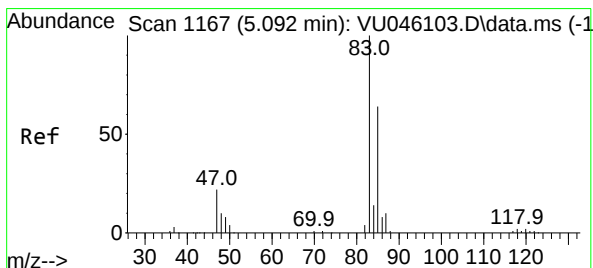
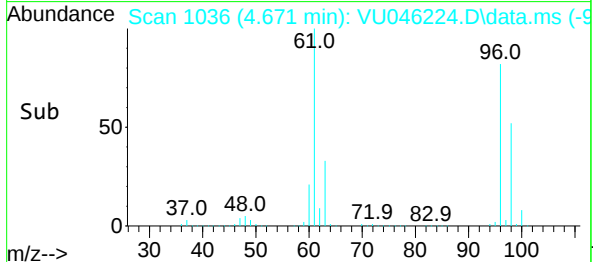
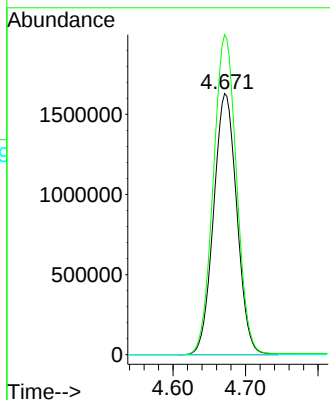
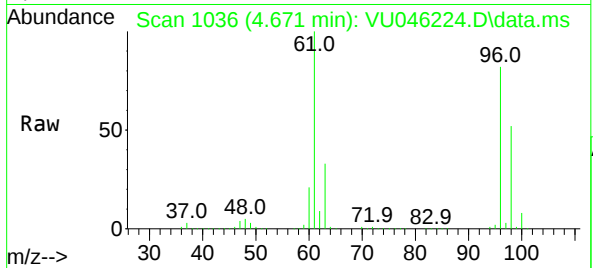




#20
cis-1,2-Dichloroethene
Concen: 2317.392 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

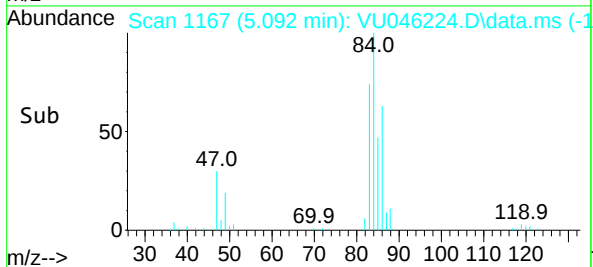
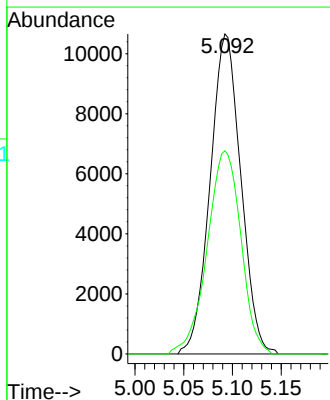
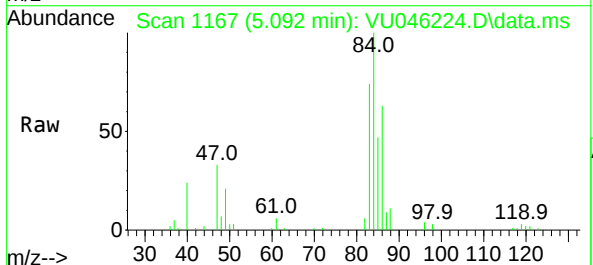
Instrument :
MSVOA_U
ClientSampleId :

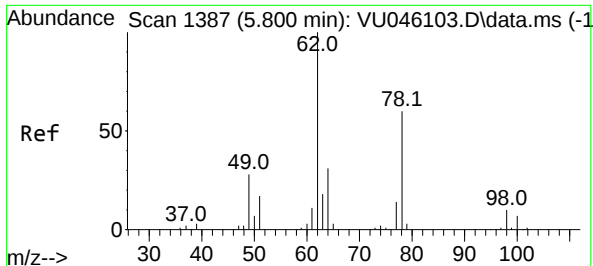
Tgt Ion: 96 Resp: 3629737
Ion Ratio Lower Upper
96 100
61 122.6 86.8 161.2
68 0.0 0.0 0.0



#25
Chloroform
Concen: 8.003 ug/L
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

Tgt Ion: 83 Resp: 23339
Ion Ratio Lower Upper
83 100
85 63.5 45.8 85.2

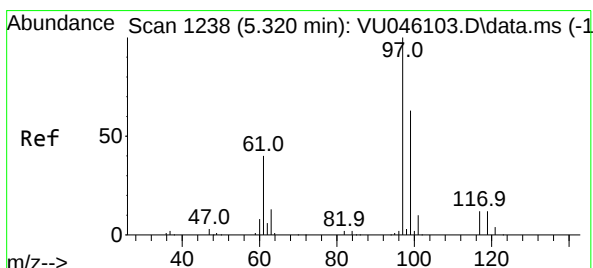
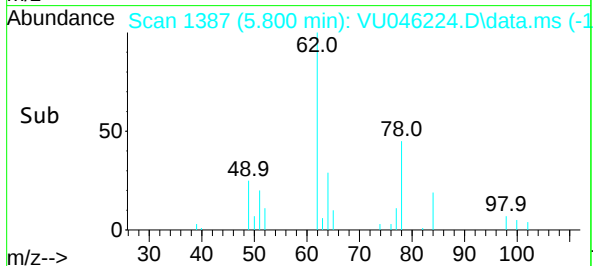
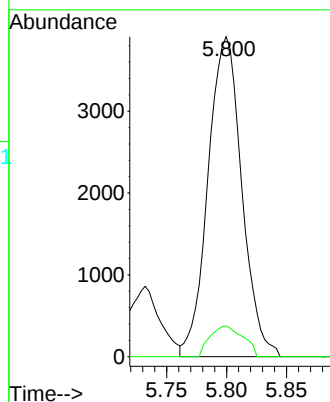
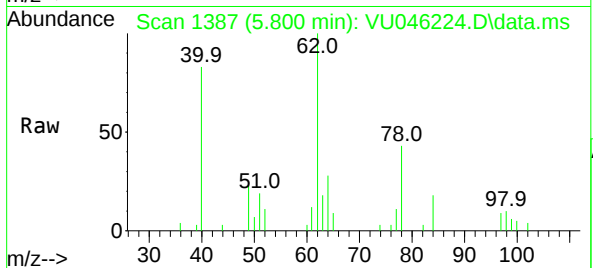




#27
1,2-Dichloroethane
Concen: 3.534 ug/L
RT: 5.800 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

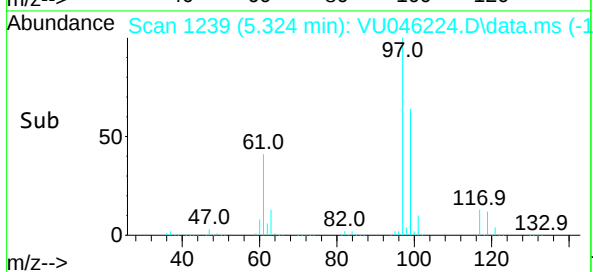
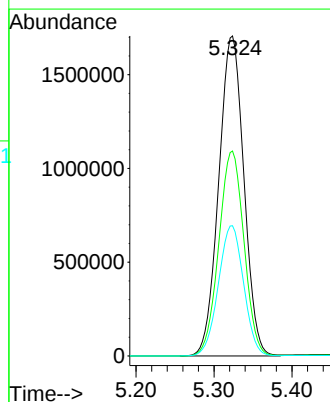
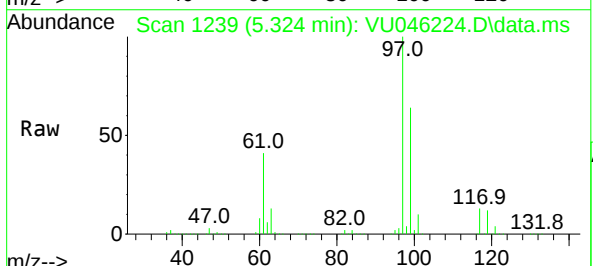
Instrument :
MSVOA_U
ClientSampleId :

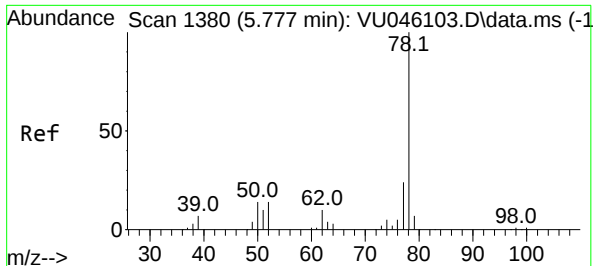
Tgt Ion: 62 Resp: 7647
Ion Ratio Lower Upper
62 100
98 9.6 7.9 11.9



#30
1,1,1-Trichloroethane
Concen: 1511.375 ug/L
RT: 5.324 min Scan# 1239
Delta R.T. 0.003 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

Tgt Ion: 97 Resp: 3827136
Ion Ratio Lower Upper
97 100
99 64.1 51.8 77.6
61 40.8 34.4 51.6





#33

Benzene

Concen: 1.983 ug/L

RT: 5.777 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU046224.D

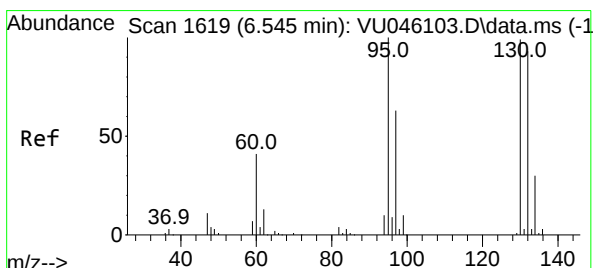
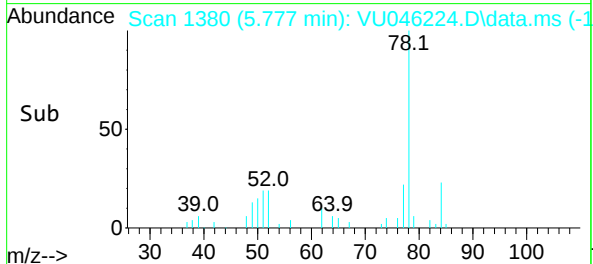
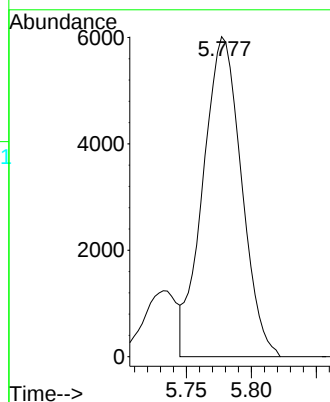
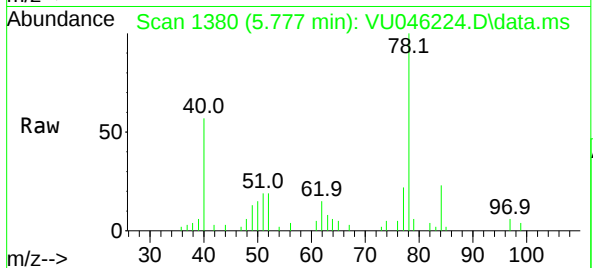
Acq: 09 Dec 2021 16:59

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 12378



#34

Trichloroethene

Concen: 10.783 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VU046224.D

Acq: 09 Dec 2021 16:59

Tgt Ion: 95 Resp: 17736

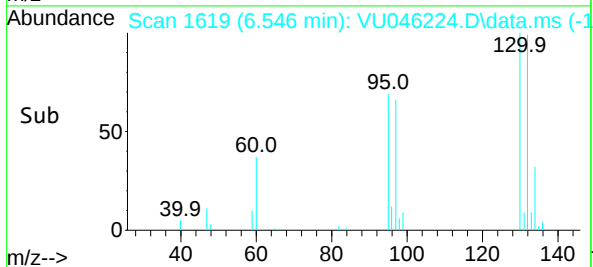
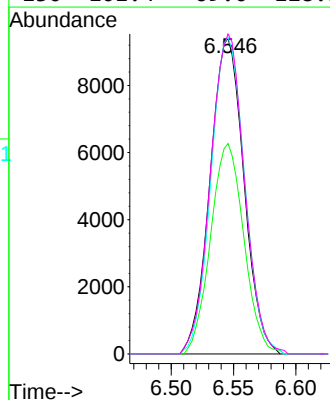
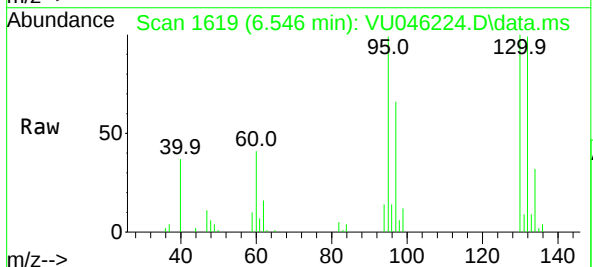
Ion Ratio Lower Upper

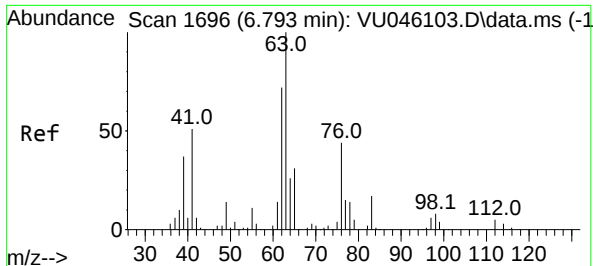
95 100

97 66.7 44.1 81.9

132 100.4 66.8 124.0

130 101.4 69.0 128.1





#37

1,2-Dichloropropane

Concen: 6.043 ug/L

RT: 6.693 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU046224.D

Acq: 09 Dec 2021 16:59

Instrument :

MSVOA_U

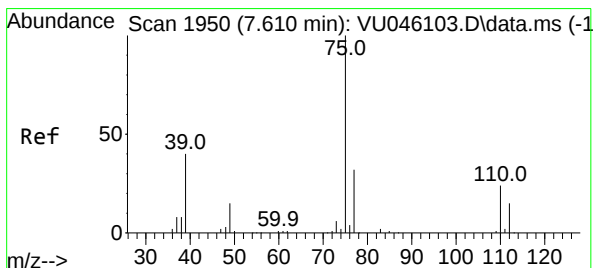
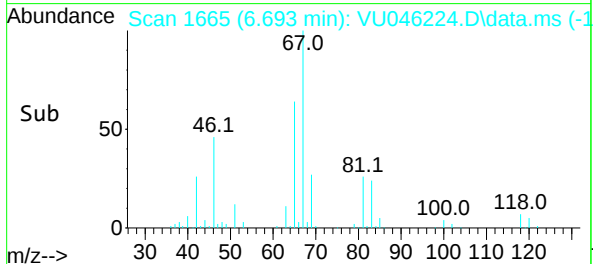
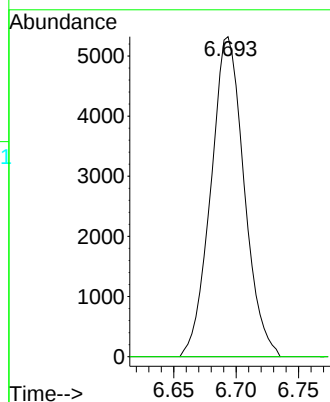
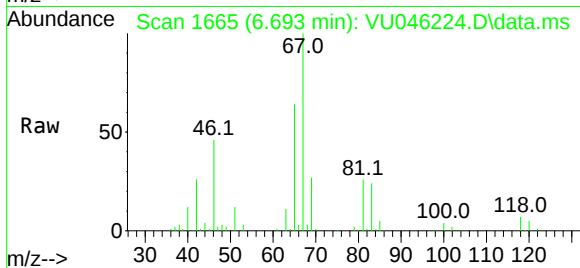
ClientSampleId :

Tgt Ion: 63 Resp: 9884

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 1.100 ug/L

RT: 7.565 min Scan# 1936

Delta R.T. -0.045 min

Lab File: VU046224.D

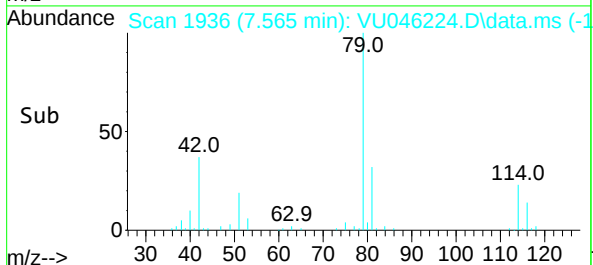
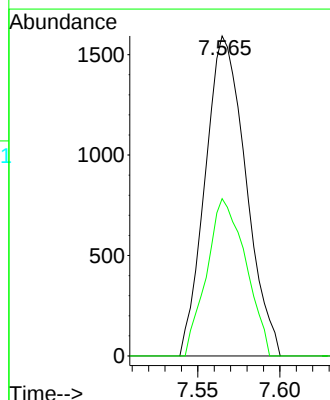
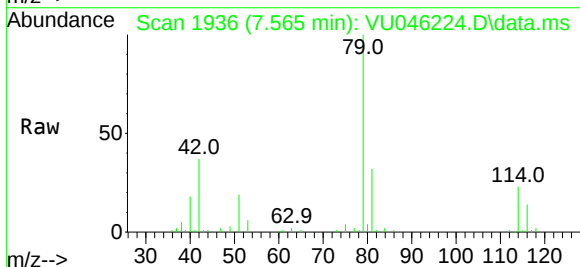
Acq: 09 Dec 2021 16:59

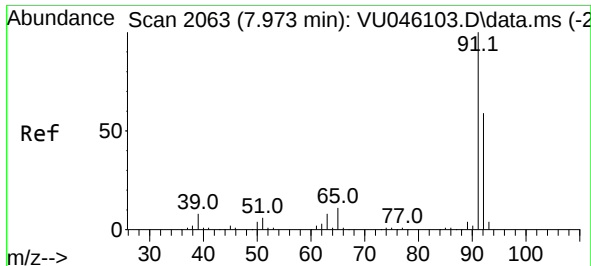
Tgt Ion: 75 Resp: 2737

Ion Ratio Lower Upper

75 100

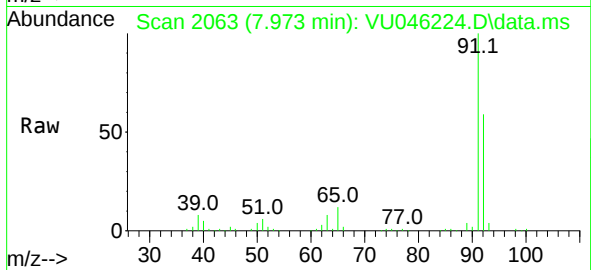
77 49.2 21.8 40.6#



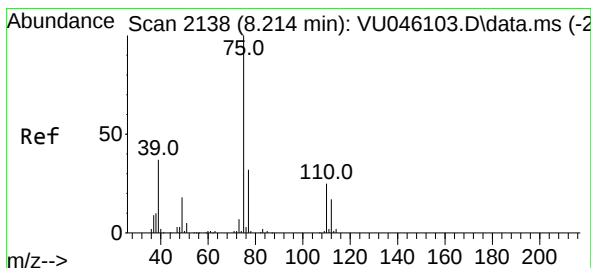
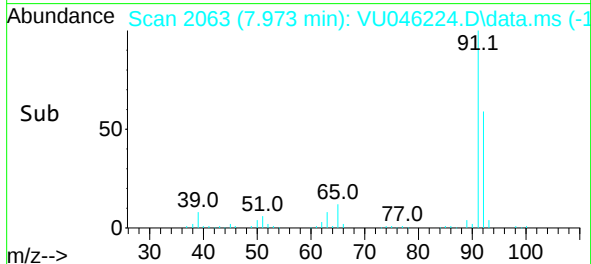
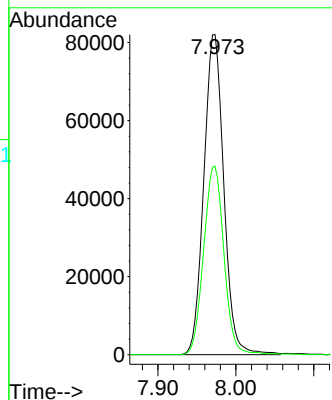


#42
Toluene
Concen: 21.824 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

Instrument :
MSVOA_U
ClientSampleId :

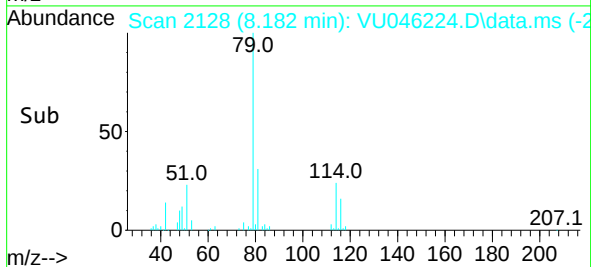
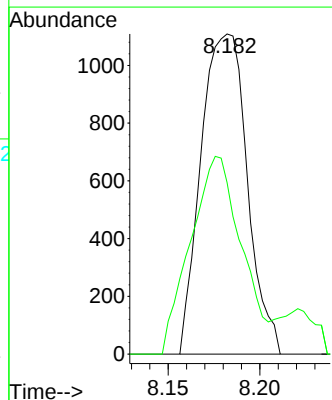
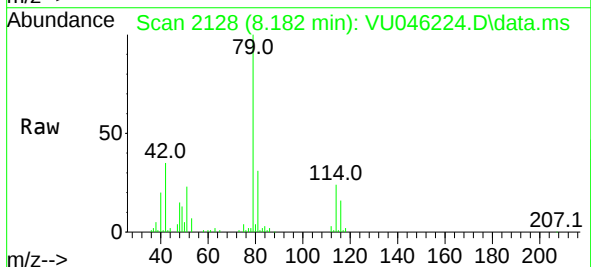


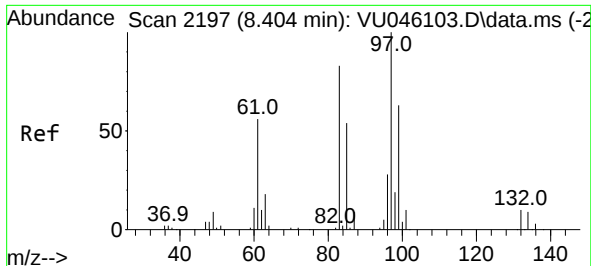
Tgt Ion: 91 Resp: 146212
Ion Ratio Lower Upper
91 100
92 58.9 41.9 77.7



#44
trans-1,3-Dichloropropene
Concen: 0.797 ug/L
RT: 8.182 min Scan# 2128
Delta R.T. -0.032 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

Tgt Ion: 75 Resp: 1947
Ion Ratio Lower Upper
75 100
77 53.6 21.7 40.3#

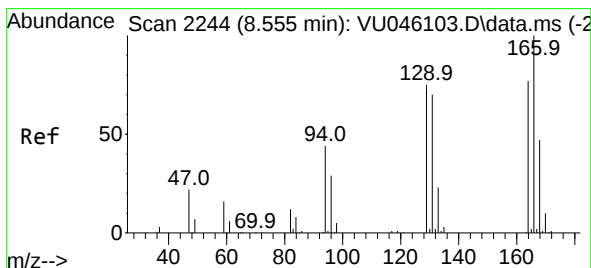
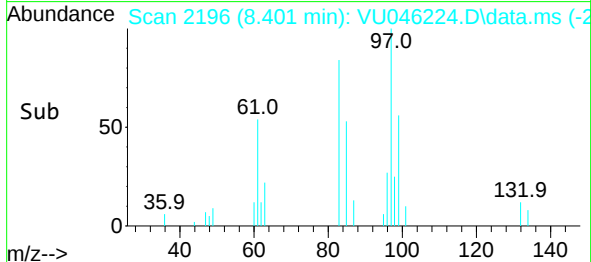
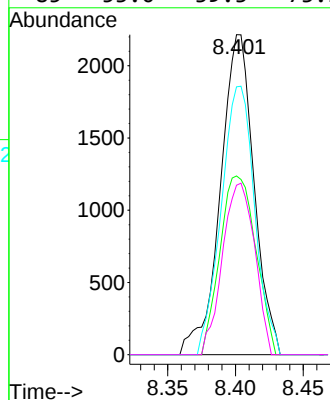
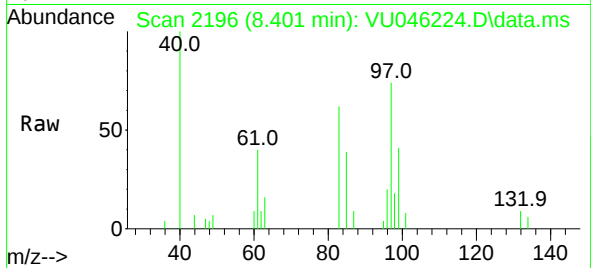




#45
1,1,2-Trichloroethane
Concen: 2.327 ug/L
RT: 8.401 min Scan# 2197
Delta R.T. -0.003 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

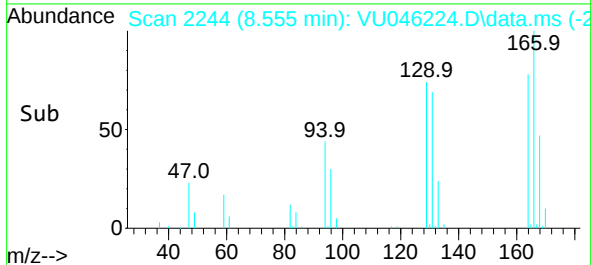
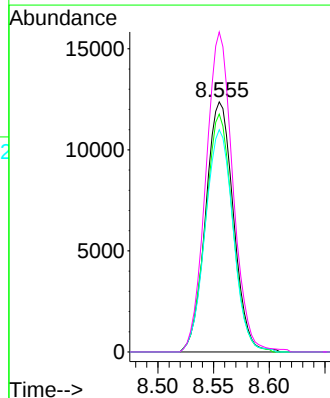
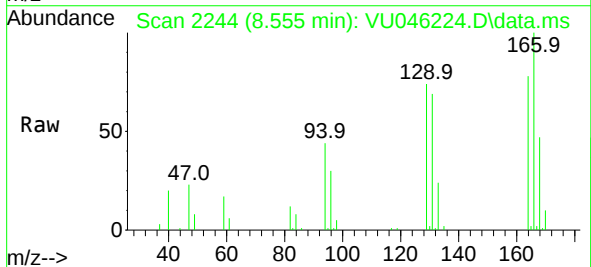
Instrument :
MSVOA_U
ClientSampleId :

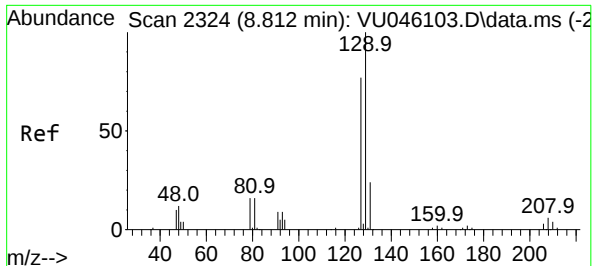
Tgt Ion: 97	Resp:	3818
Ion	Ratio	Lower Upper
97	100	
99	55.8	44.7 82.9
83	83.7	60.2 111.8
85	53.0	39.3 73.1



#46
Tetrachloroethene
Concen: 17.804 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.000 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

Tgt Ion: 164	Resp:	21521
Ion	Ratio	Lower Upper
164	100	
129	95.1	71.1 132.1
131	88.9	67.8 126.0
166	128.0	90.6 168.2





#49

Dibromochloromethane

Concen: 11.621 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU046224.D

Acq: 09 Dec 2021 16:59

Instrument :

MSVOA_U

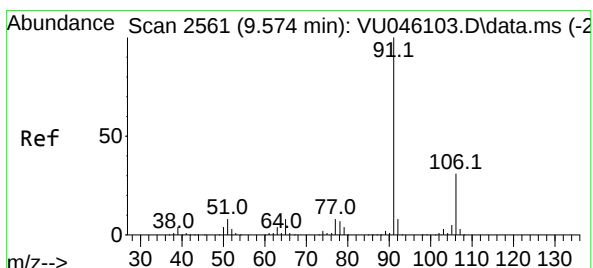
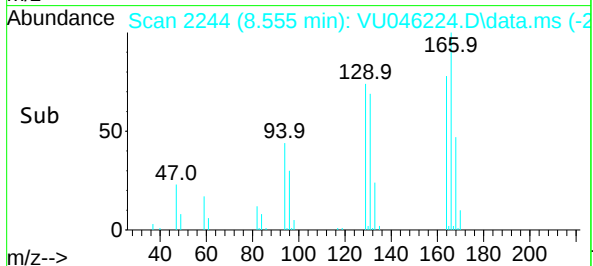
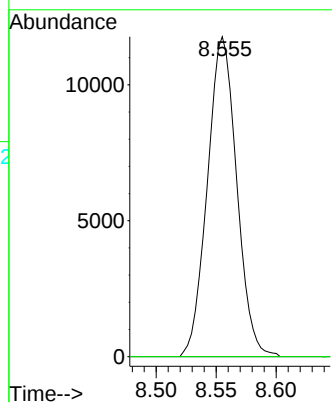
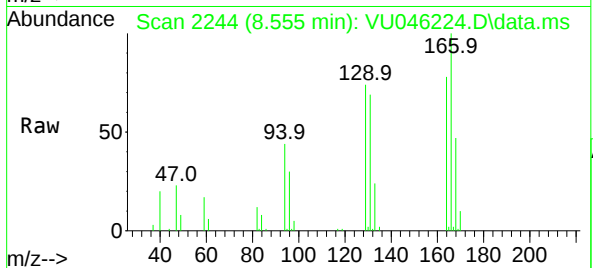
ClientSampleId :

Tgt Ion:129 Resp: 20024

Ion Ratio Lower Upper

129 100

127 0.0 55.6 103.4#



#52

Ethylbenzene

Concen: 5.943 ug/L

RT: 9.571 min Scan# 2560

Delta R.T. -0.003 min

Lab File: VU046224.D

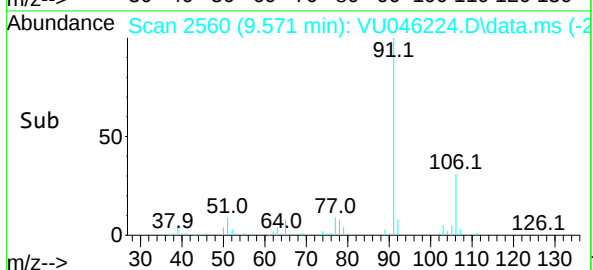
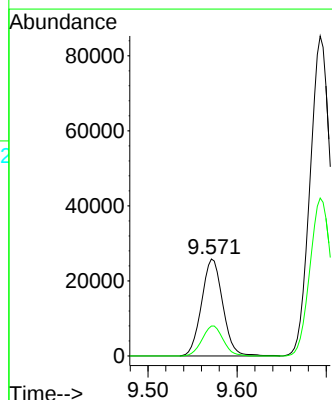
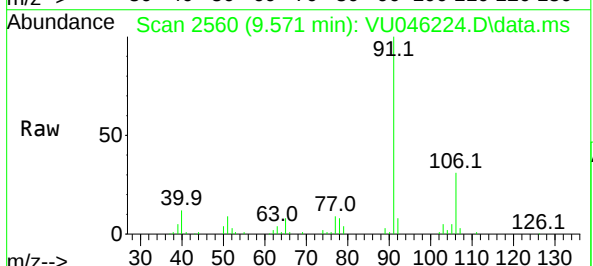
Acq: 09 Dec 2021 16:59

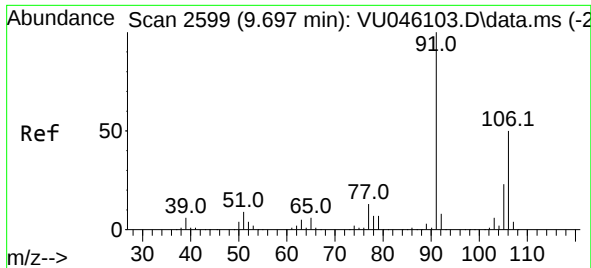
Tgt Ion: 91 Resp: 42849

Ion Ratio Lower Upper

91 100

106 30.9 21.1 39.3

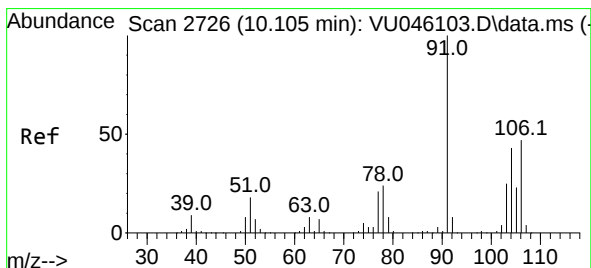
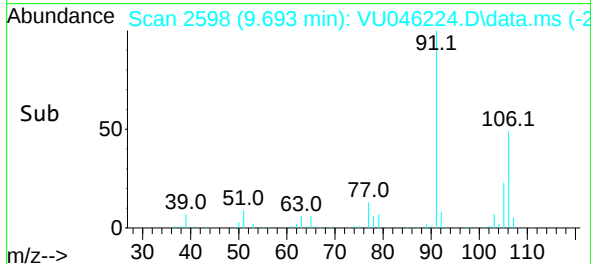
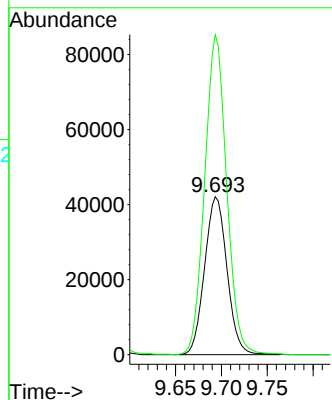
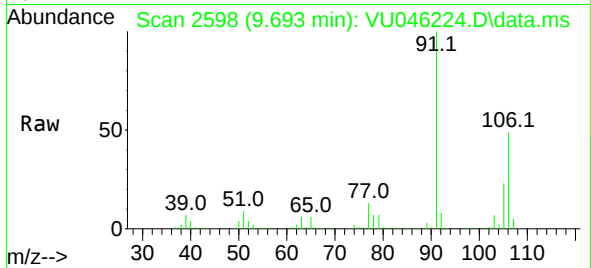




#53
m,p-Xylene
Concen: 25.457 ug/L
RT: 9.693 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

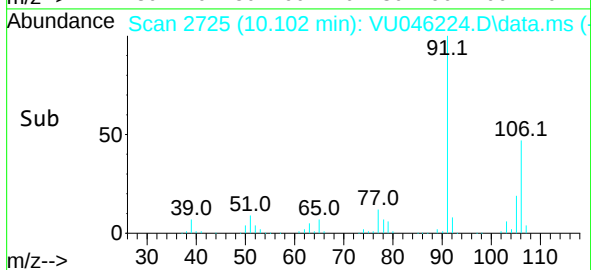
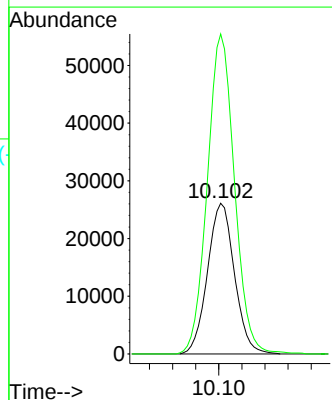
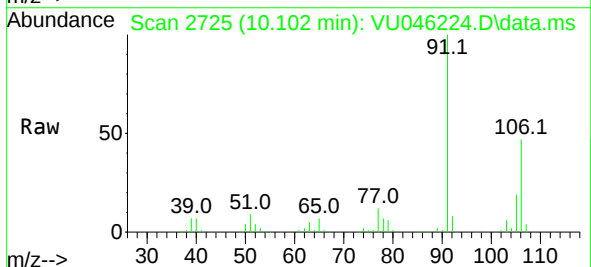
Instrument :
MSVOA_U
ClientSampleId :

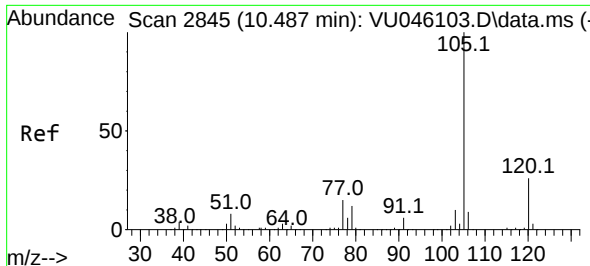
Tgt Ion:106 Resp: 71582
Ion Ratio Lower Upper
106 100
91 202.7 144.3 268.1



#54
o-xylene
Concen: 15.514 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

Tgt Ion:106 Resp: 42328
Ion Ratio Lower Upper
106 100
91 212.3 154.2 286.4

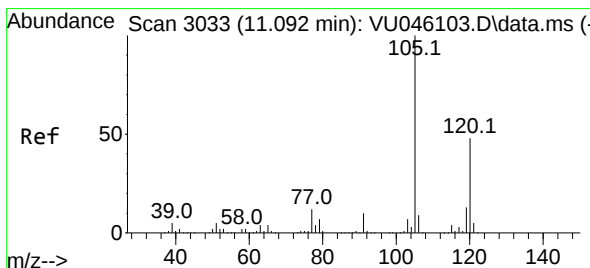
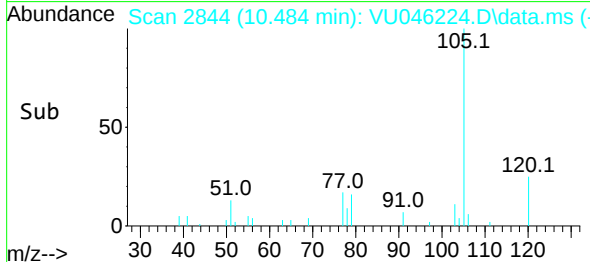
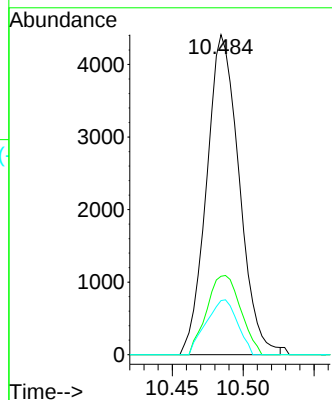
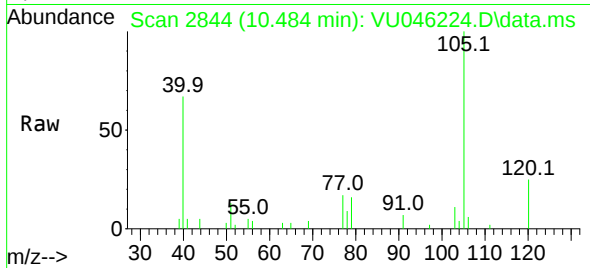




#61
Isopropylbenzene
Concen: 0.951 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.003 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

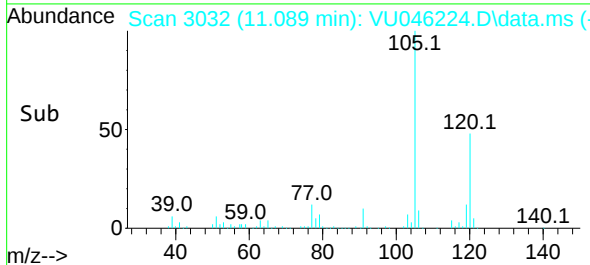
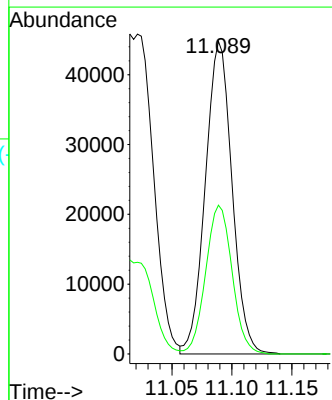
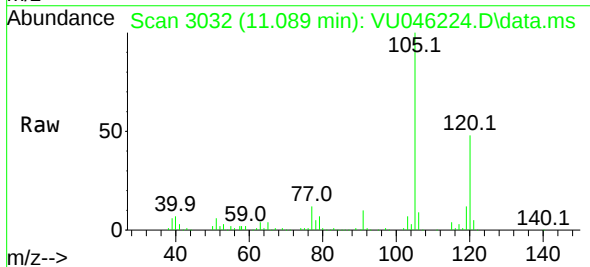
Instrument :
MSVOA_U
ClientSampleId :

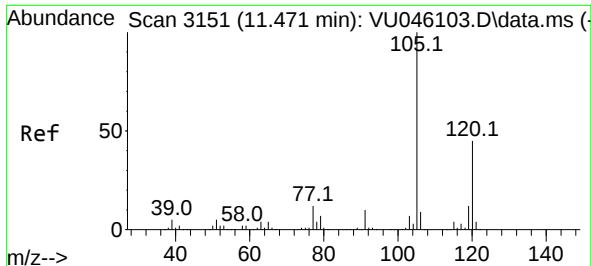
Tgt Ion:105 Resp: 7055
Ion Ratio Lower Upper
105 100
120 25.7 20.7 31.1
77 16.4 12.2 18.4



#62
1,3,5-Trimethylbenzene
Concen: 11.198 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

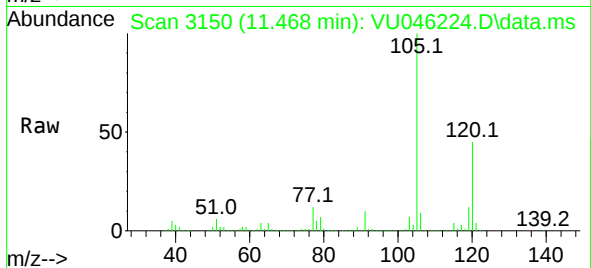
Tgt Ion:105 Resp: 69266
Ion Ratio Lower Upper
105 100
120 47.1 37.8 56.6



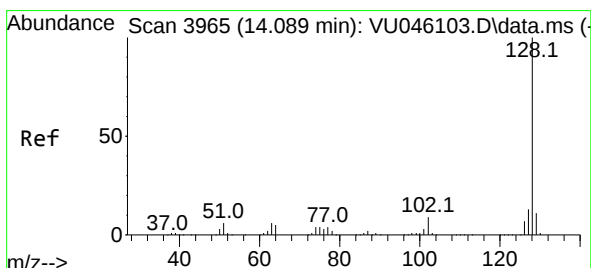
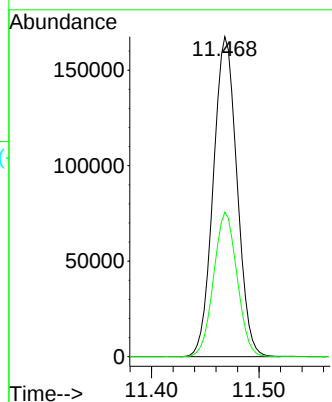
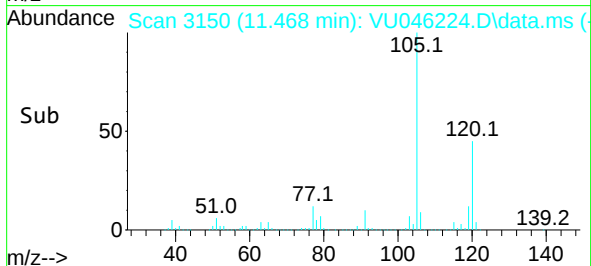


#63
1,2,4-Trimethylbenzene
Concen: 41.510 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59

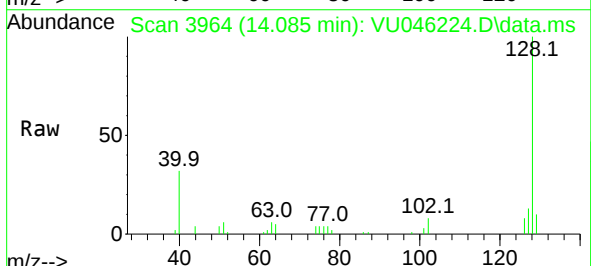
Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:105 Resp: 256893
Ion Ratio Lower Upper
105 100
120 44.7 35.2 52.8



#71
Naphthalene
Concen: 2.085 ug/L
RT: 14.085 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046224.D
Acq: 09 Dec 2021 16:59



Tgt Ion:128 Resp: 16540
Ion Ratio Lower Upper
128 100
127 12.2 10.1 15.1
129 10.3 8.6 13.0

