

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120221\
 Data File : VU046052.D
 Acq On : 02 Dec 2021 15:12
 Operator : SY/MD
 Sample : M4868-01
 Misc : 4.97g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 03 05:11:23 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	6.250	114	230137	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	227712	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	118312	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	67782	35.755	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	71.500%
7) Chloroethane-d5	1.912	69	47116	32.370	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	64.740%#
11) 1,1-Dichloroethene-d2	2.549	63	97312	28.594	ug/L	-0.03
Spiked Amount	50.000	Range	60 - 125	Recovery	=	57.180%#
21) 2-Butanone-d5	4.645	46	110948	73.620	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	73.620%
24) Chloroform-d	5.063	84	108774	34.359	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	68.720%#
26) 1,2-Dichloroethane-d4	5.703	65	86907	40.905	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.800%
32) Benzene-d6	5.726	84	276779	42.408	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.820%
36) 1,2-Dichloropropane-d6	6.690	67	87412	43.215	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.440%
41) Toluene-d8	7.899	98	249135	41.925	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.840%
43) trans-1,3-Dichloroprop...	8.182	79	42237	43.257	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.520%
47) 2-Hexanone-d5	8.664	63	79132	82.511	ug/L	0.03
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.510%
56) 1,1,2,2-Tetrachloroeth...	10.767	84	119943	39.101	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	78.200%
66) 1,2-Dichlorobenzene-d4	12.198	152	101381	44.495	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	10510	4.654	ug/L	96
8) Chloroethane	1.604	64	3943	3.016	ug/L	92
10) 1,1,2-Trichloro-1,2,2-...	2.549	101	782	0.467	ug/L #	21
12) 1,1-Dichloroethene	2.546	96	866	0.544	ug/L #	1
13) Acetone	2.661	43	25184	13.371	ug/L	91
20) cis-1,2-Dichloroethene	4.665	96	115262	63.081	ug/L	96
22) 2-Butanone	4.729	43	5304	2.587	ug/L #	51
25) Chloroform	5.089	83	23817	7.001	ug/L	95
27) 1,2-Dichloroethane	5.793	62	2847	1.128	ug/L	98
33) Benzene	5.771	78	41573	6.032	ug/L	100
37) 1,2-Dichloropropane	6.690	63	9330	5.168	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	2598	0.946	ug/L #	68
42) Toluene	7.970	91	81103	10.967	ug/L	98
44) trans-1,3-Dichloropropene	8.179	75	1815	0.673	ug/L #	76
52) Ethylbenzene	9.574	91	210596	26.460	ug/L	97
53) m,p-Xylene	9.697	106	273753	88.198	ug/L	98
54) o-xylene	10.105	106	75106	24.938	ug/L	100
55) Styrene	10.108	104	4079	0.793	ug/L #	1
61) Isopropylbenzene	10.491	105	28701	3.728	ug/L	97

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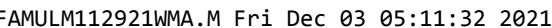
Instrument :
 MSVOA_U
 ClientSampleId :

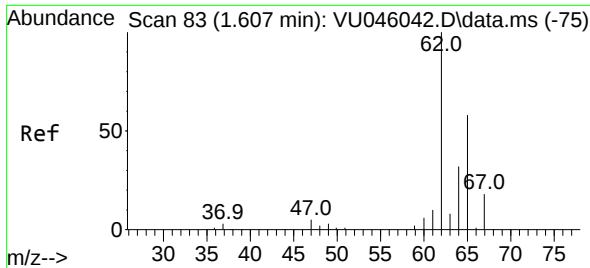
Quant Time: Dec 03 05:11:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	11.092	105	39201	6.110	ug/L	99
63) 1,2,4-Trimethylbenzene	11.471	105	132307	20.611	ug/L	100
67) 1,2-Dichlorobenzene	12.217	146	3090	0.839	ug/L #	88
71) Naphthalene	14.089	128	267184	32.475	ug/L	100

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

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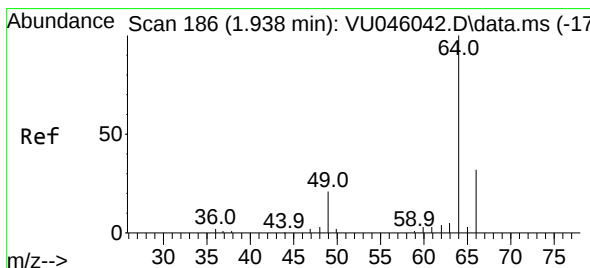
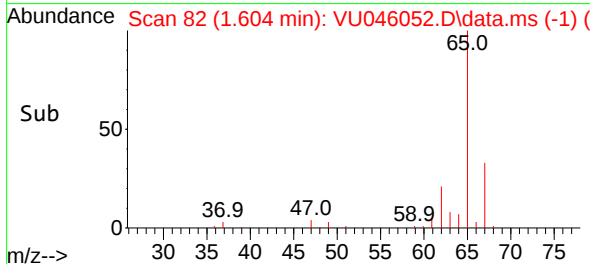
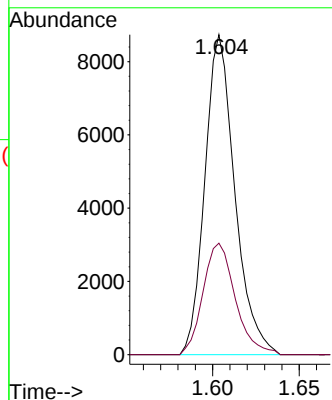
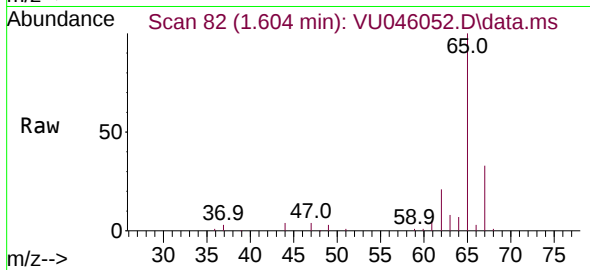




#5
 Vinyl chloride
 Concen: 4.654 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU046052.D
 Acq: 02 Dec 2021 15:12

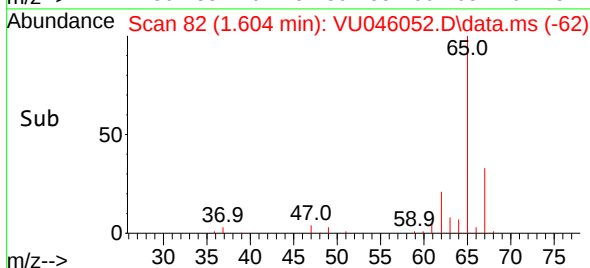
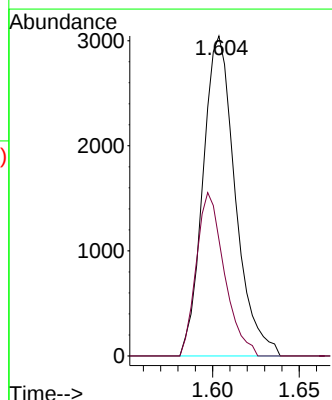
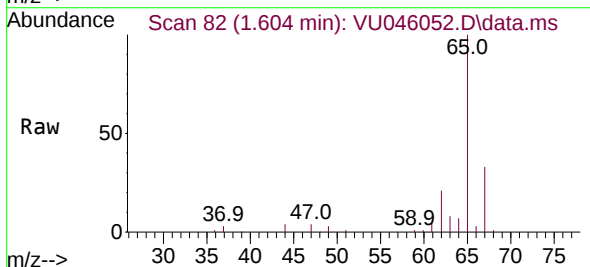
Instrument :
 MSVOA_U
 ClientSampleId :

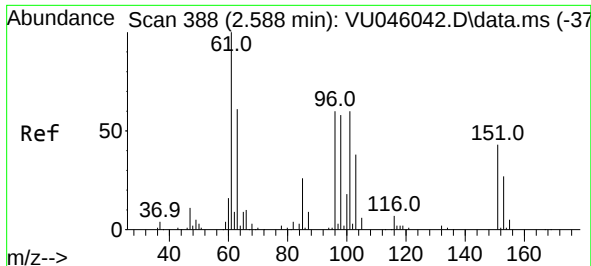
Tgt Ion: 62 Resp: 10510
 Ion Ratio Lower Upper
 62 100
 64 34.9 22.9 42.5



#8
 Chloroethane
 Concen: 3.016 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. -0.335 min
 Lab File: VU046052.D
 Acq: 02 Dec 2021 15:12

Tgt Ion: 64 Resp: 3943
 Ion Ratio Lower Upper
 64 100
 66 36.4 22.5 41.9

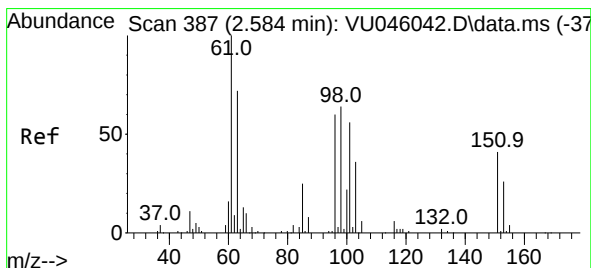
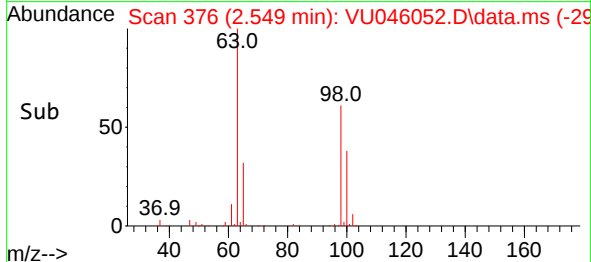
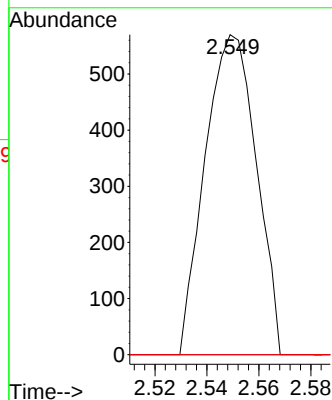
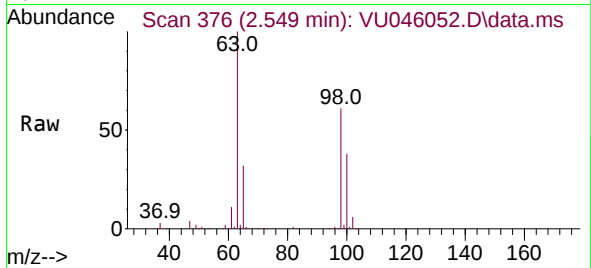




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.467 ug/L
RT: 2.549 min Scan# 31
Delta R.T. -0.039 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

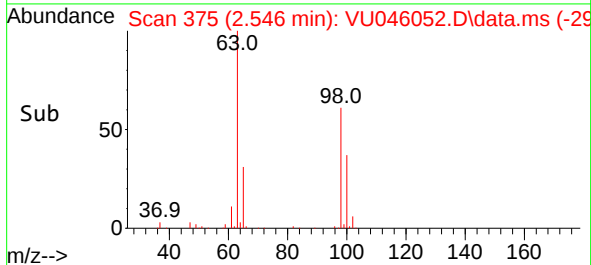
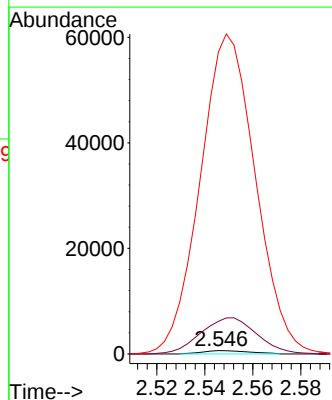
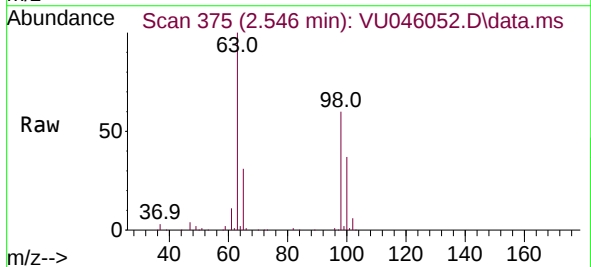
Instrument :
MSVOA_U
ClientSampleId :

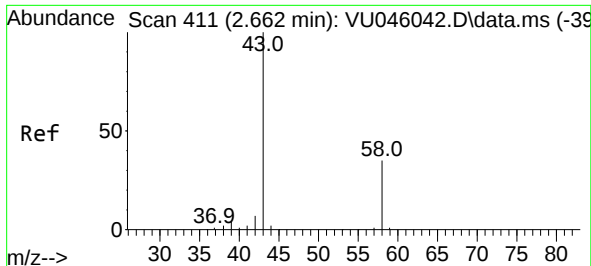
Tgt Ion:101 Resp: 782
Ion Ratio Lower Upper
101 100
85 0.0 35.1 52.7#
151 0.0 56.7 85.1#



#12
1,1-Dichloroethene
Concen: 0.544 ug/L
RT: 2.546 min Scan# 375
Delta R.T. -0.039 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

Tgt Ion: 96 Resp: 866
Ion Ratio Lower Upper
96 100
61 984.0 118.6 220.2#
63 9084.4 93.0 172.8#





#13

Acetone

Concen: 13.371 ug/L

RT: 2.661 min Scan# 411

Delta R.T. -0.000 min

Lab File: VU046052.D

Acq: 02 Dec 2021 15:12

Instrument :

MSVOA_U

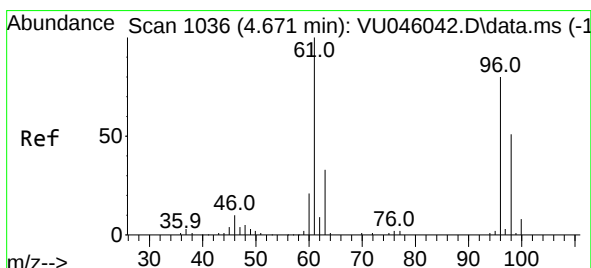
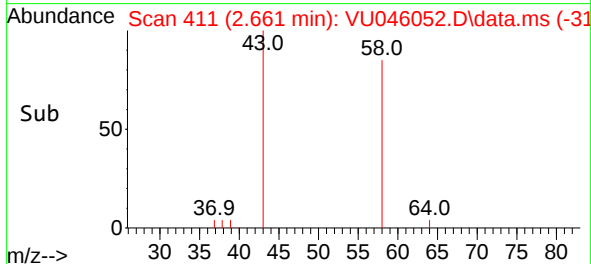
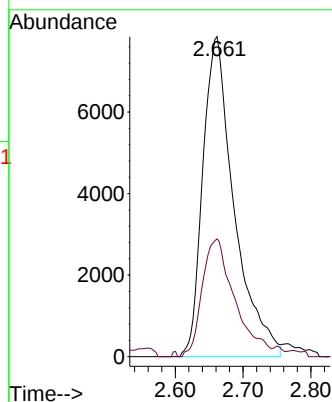
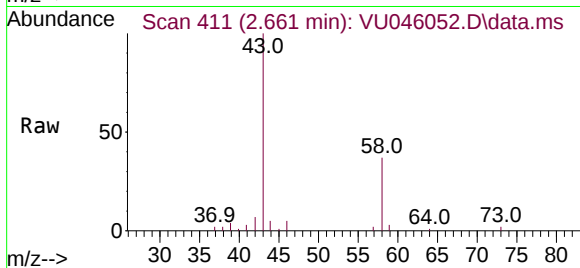
ClientSampleId :

Tgt Ion: 43 Resp: 25184

Ion Ratio Lower Upper

43 100

58 38.3 0.0 66.8



#20

cis-1,2-Dichloroethene

Concen: 63.081 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.007 min

Lab File: VU046052.D

Acq: 02 Dec 2021 15:12

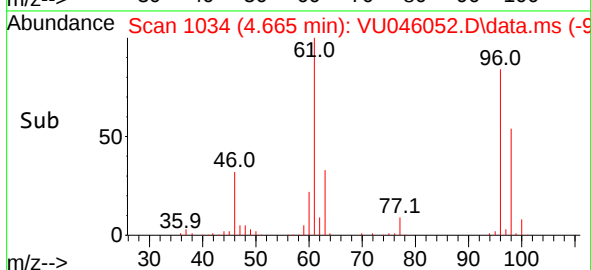
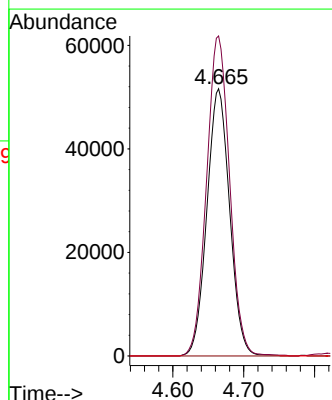
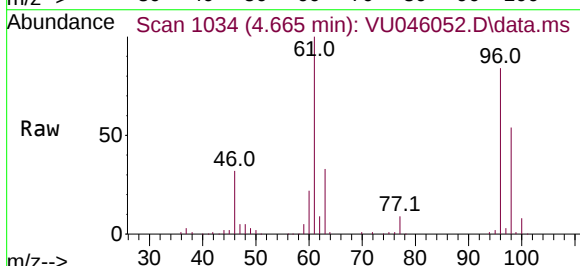
Tgt Ion: 96 Resp: 115262

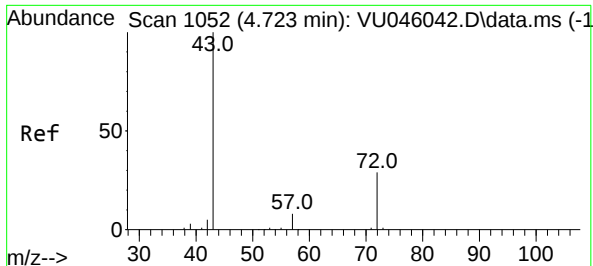
Ion Ratio Lower Upper

96 100

61 119.7 86.8 161.2

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 2.587 ug/L

RT: 4.729 min Scan# 1052

Delta R.T. 0.006 min

Lab File: VU046052.D

Acq: 02 Dec 2021 15:12

Instrument :

MSVOA_U

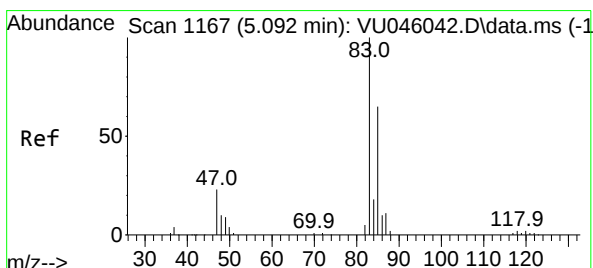
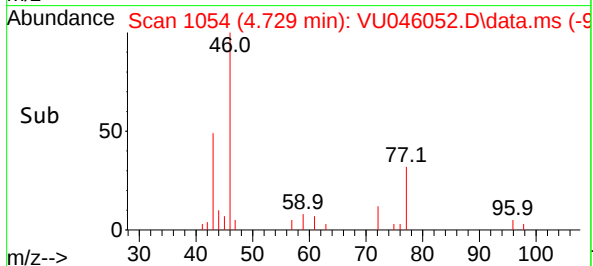
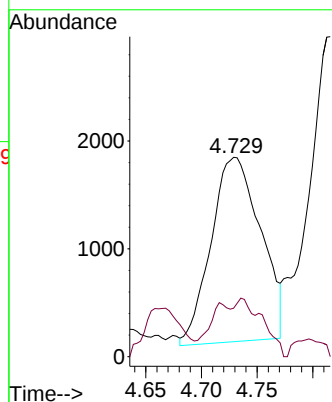
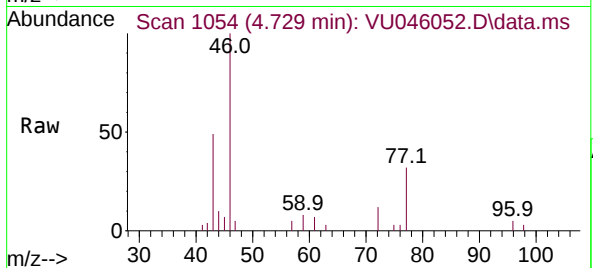
ClientSampleId :

Tgt Ion: 43 Resp: 5304

Ion Ratio Lower Upper

43 100

72 2.8 14.5 43.6#



#25

Chloroform

Concen: 7.001 ug/L

RT: 5.089 min Scan# 1166

Delta R.T. -0.003 min

Lab File: VU046052.D

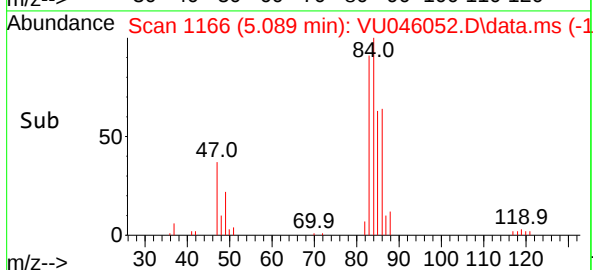
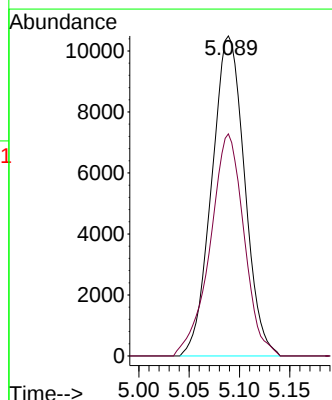
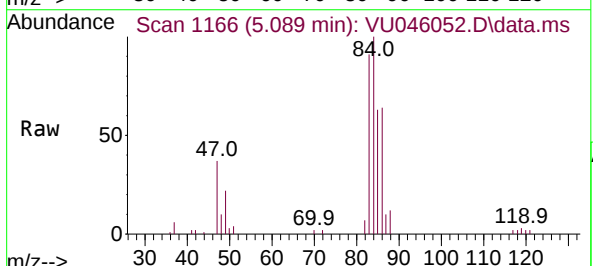
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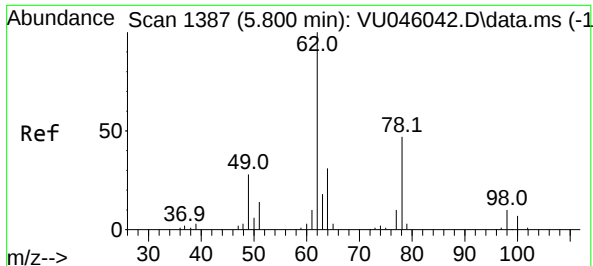
Tgt Ion: 83 Resp: 23817

Ion Ratio Lower Upper

83 100

85 69.4 45.8 85.2

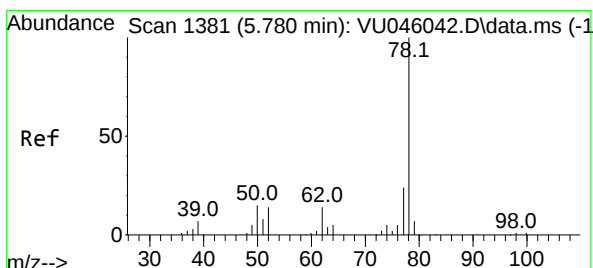
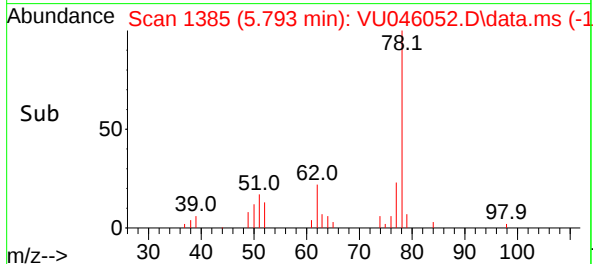
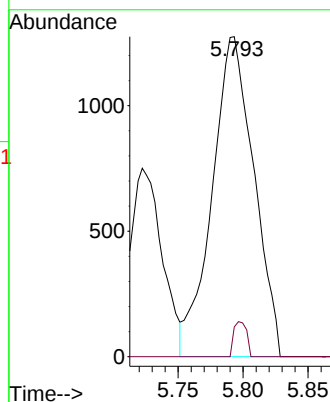
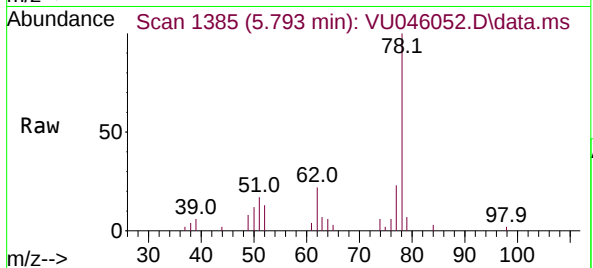




#27
1,2-Dichloroethane
Concen: 1.128 ug/L
RT: 5.793 min Scan# 1385
Delta R.T. -0.007 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

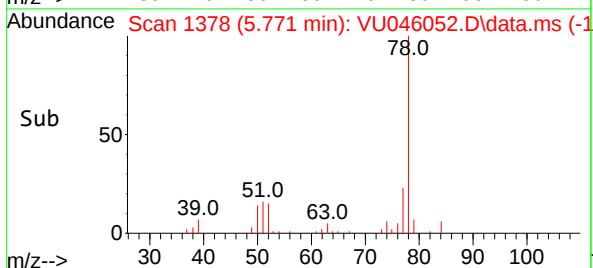
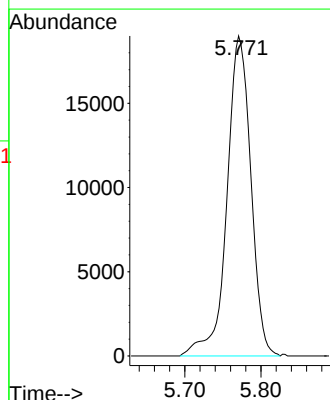
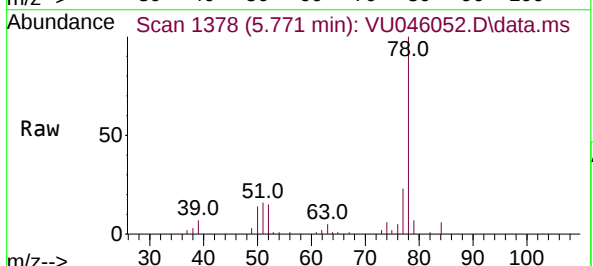
Instrument :
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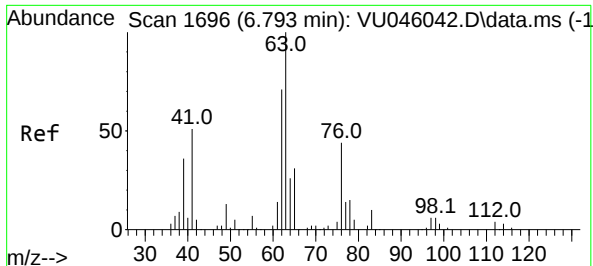
Tgt Ion: 62 Resp: 2847
Ion Ratio Lower Upper
62 100
98 9.3 7.9 11.9



#33
Benzene
Concen: 6.032 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. -0.010 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

Tgt Ion: 78 Resp: 41573





#37

1,2-Dichloropropane

Concen: 5.168 ug/L

RT: 6.690 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU046052.D

Acq: 02 Dec 2021 15:12

Instrument :

MSVOA_U

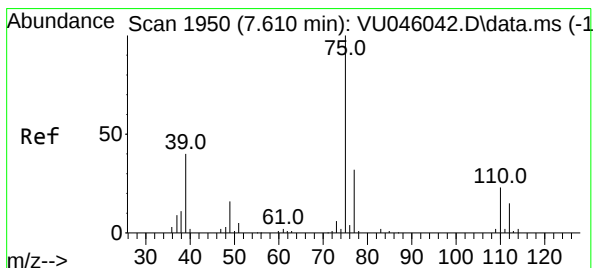
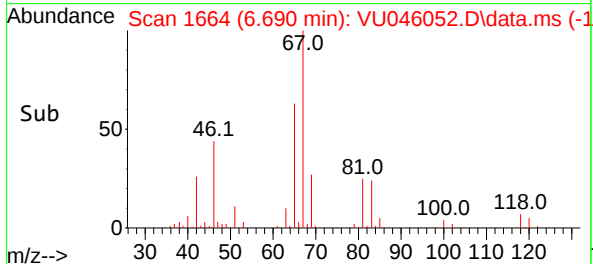
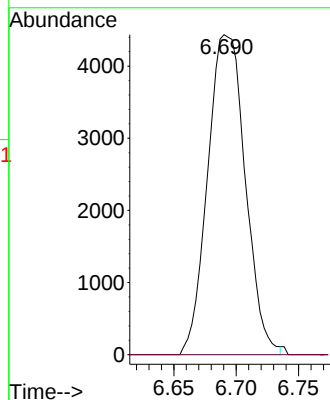
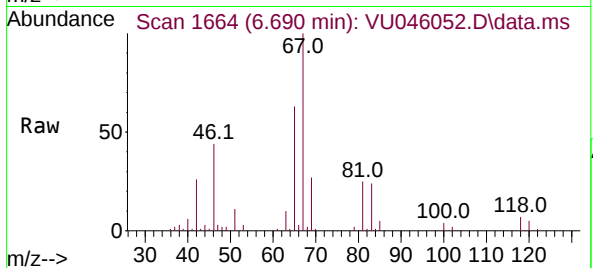
ClientSampleId :

Tgt Ion: 63 Resp: 9330

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.946 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU046052.D

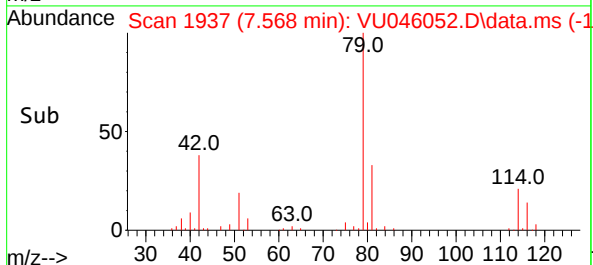
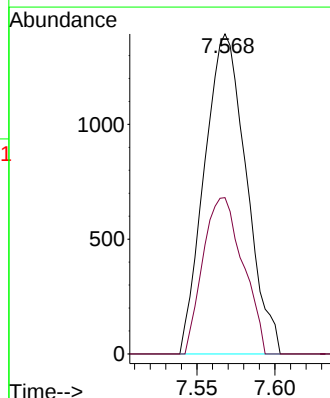
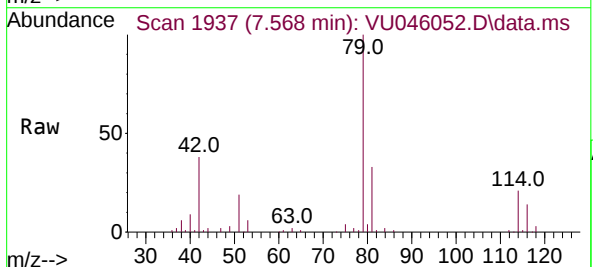
Acq: 02 Dec 2021 15:12

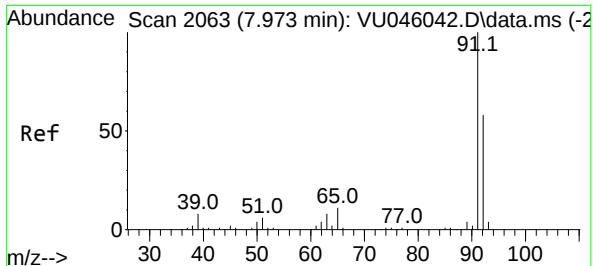
Tgt Ion: 75 Resp: 2598

Ion Ratio Lower Upper

75 100

77 48.9 21.8 40.6#





#42

Toluene

Concen: 10.967 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU046052.D

Acq: 02 Dec 2021 15:12

Instrument :

MSVOA_U

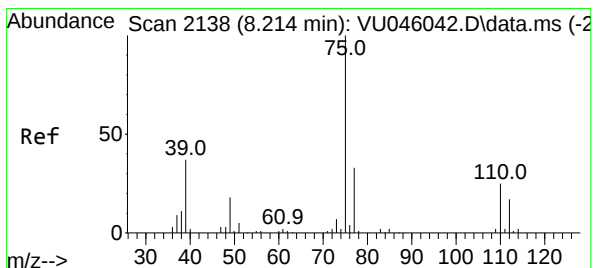
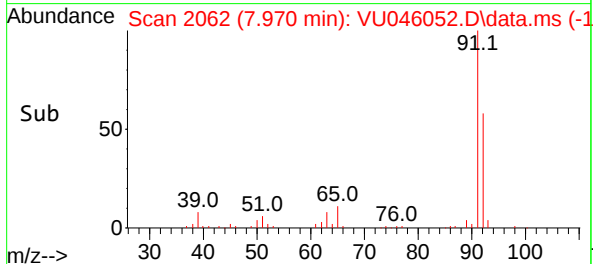
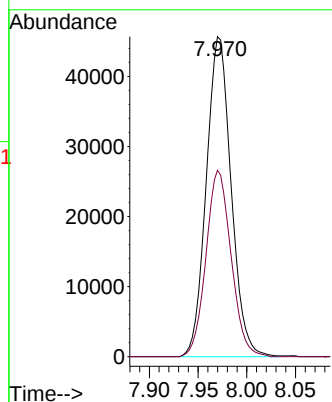
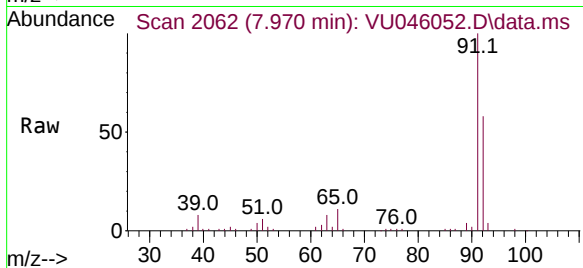
ClientSampleId :

Tgt Ion: 91 Resp: 81103

Ion Ratio Lower Upper

91 100

92 58.2 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 0.673 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.036 min

Lab File: VU046052.D

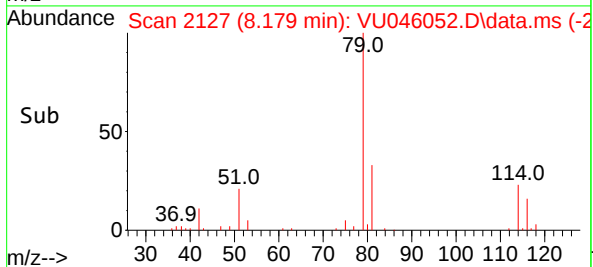
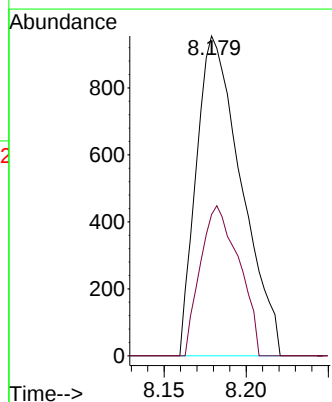
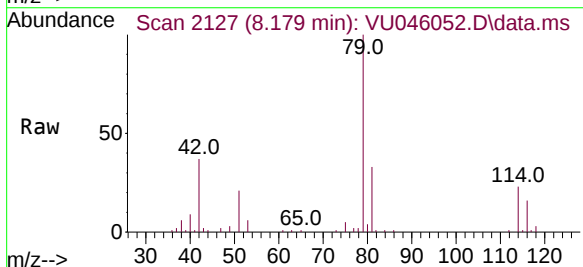
Acq: 02 Dec 2021 15:12

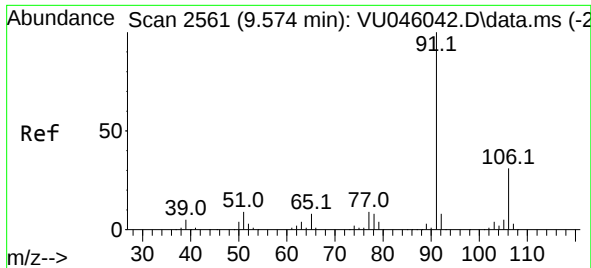
Tgt Ion: 75 Resp: 1815

Ion Ratio Lower Upper

75 100

77 44.2 21.7 40.3#

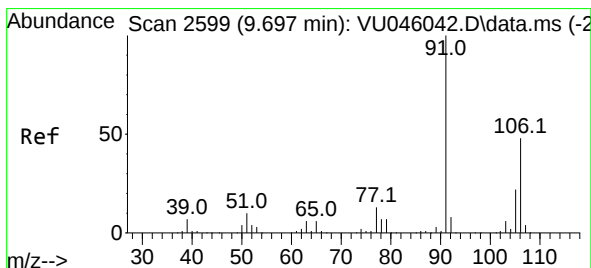
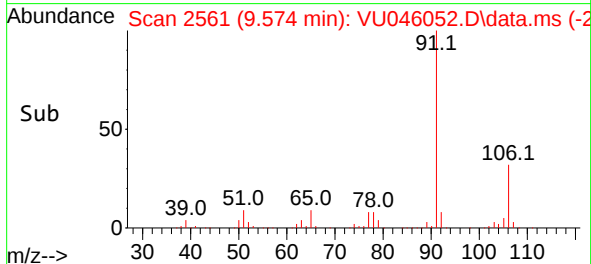
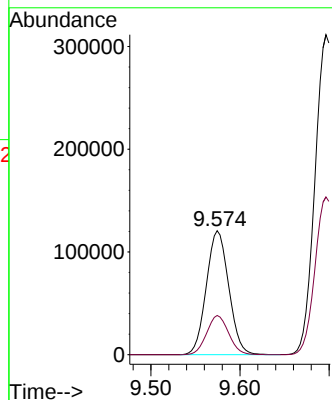
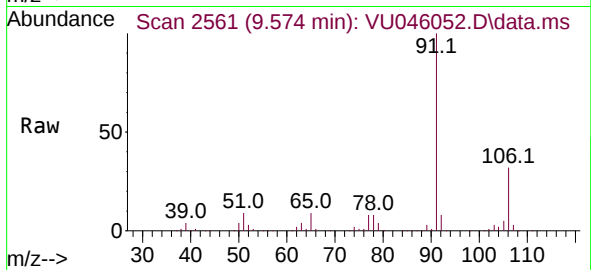




#52
Ethylbenzene
Concen: 26.460 ug/L
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

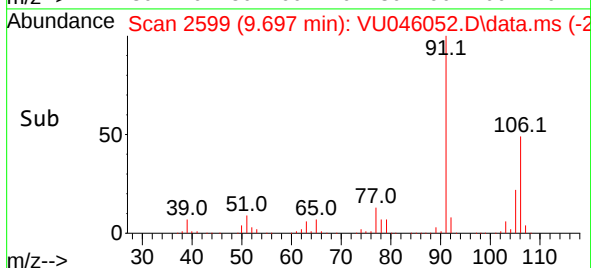
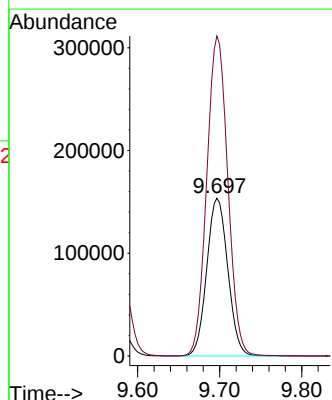
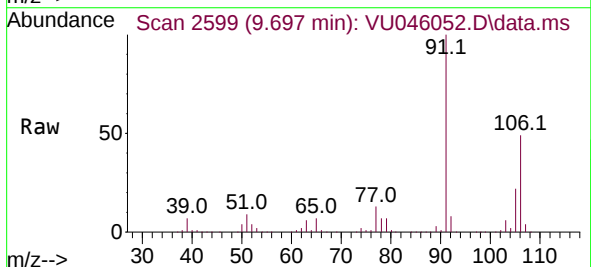
Instrument :
MSVOA_U
ClientSampleId :

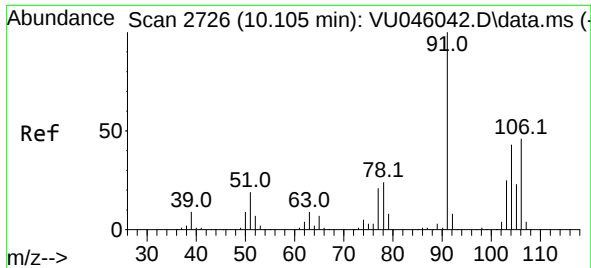
Tgt Ion: 91 Resp: 210596
Ion Ratio Lower Upper
91 100
106 31.6 21.1 39.3



#53
m,p-Xylene
Concen: 88.198 ug/L
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

Tgt Ion:106 Resp: 273753
Ion Ratio Lower Upper
106 100
91 202.9 144.3 268.1

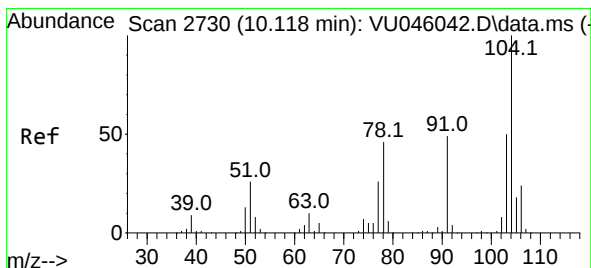
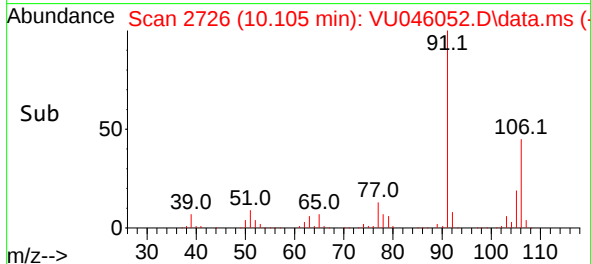
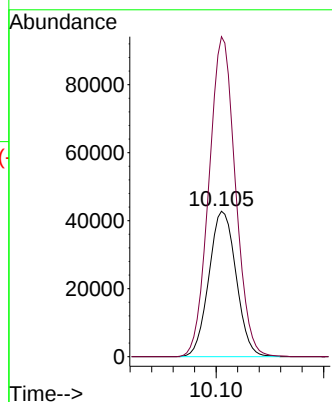
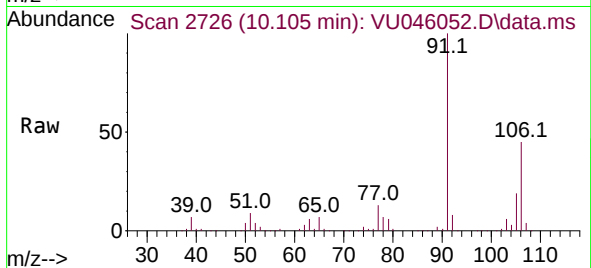




#54
o-xylene
Concen: 24.938 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. -0.000 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

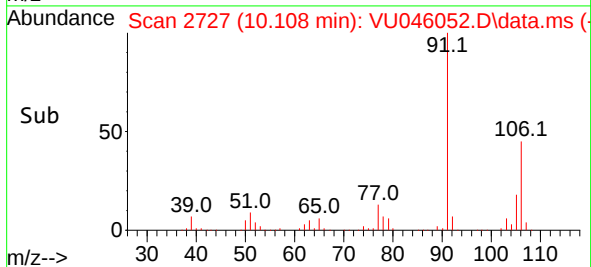
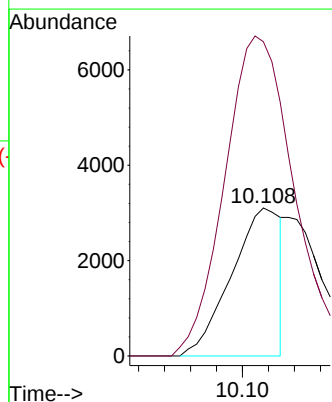
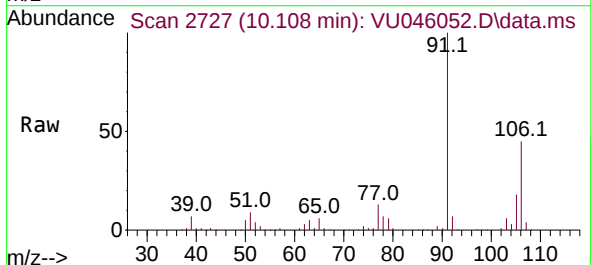
Instrument :
MSVOA_U
ClientSampleId :

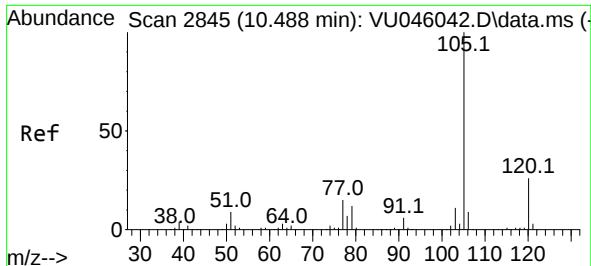
Tgt Ion:106 Resp: 75106
Ion Ratio Lower Upper
106 100
91 220.1 154.2 286.4



#55
Styrene
Concen: 0.793 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. -0.010 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

Tgt Ion:104 Resp: 4079
Ion Ratio Lower Upper
104 100
78 212.3 32.6 60.5#

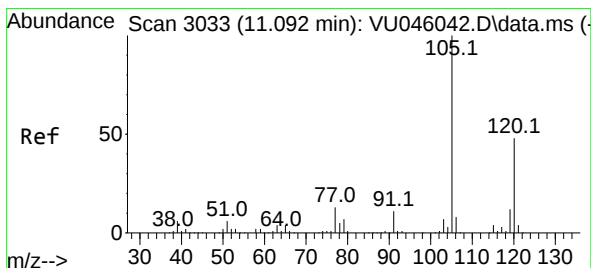
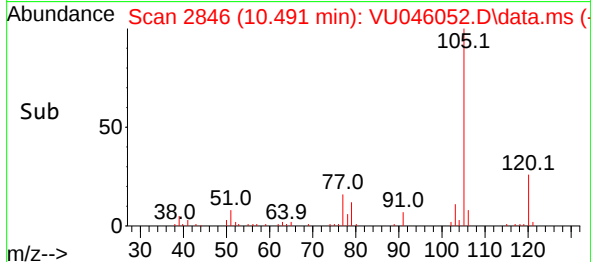
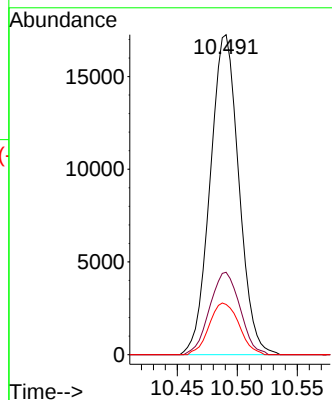
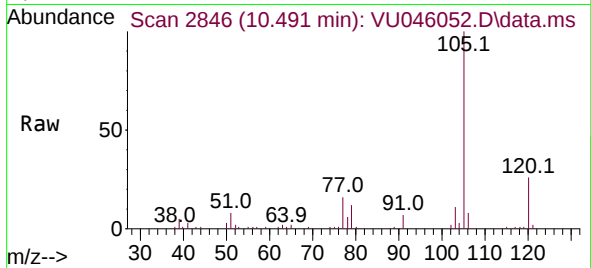




#61
Isopropylbenzene
Concen: 3.728 ug/L
RT: 10.491 min Scan# 2845
Delta R.T. 0.003 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

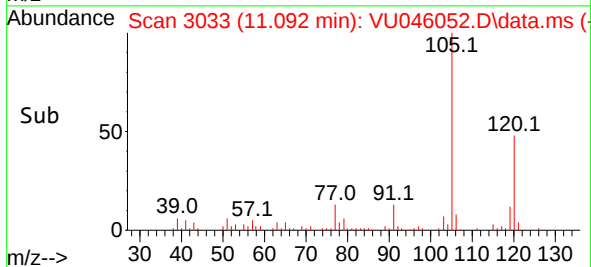
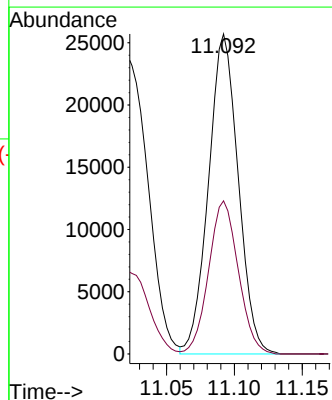
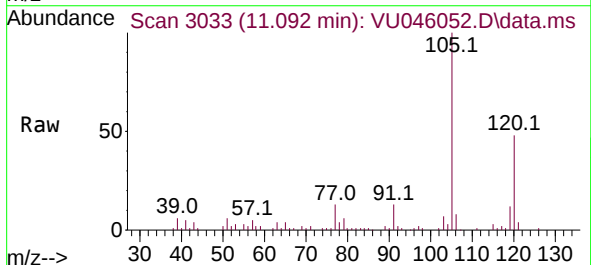
Instrument :
MSVOA_U
ClientSampleId :

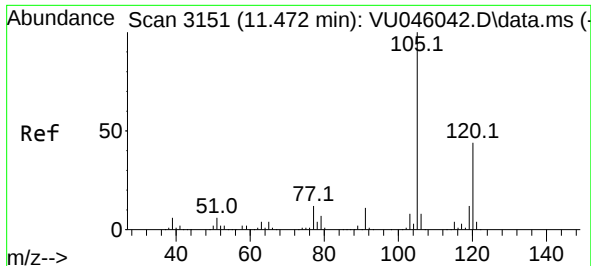
Tgt Ion:105 Resp: 28701
Ion Ratio Lower Upper
105 100
120 27.2 20.7 31.1
77 16.8 12.2 18.4



#62
1,3,5-Trimethylbenzene
Concen: 6.110 ug/L
RT: 11.092 min Scan# 3033
Delta R.T. -0.000 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

Tgt Ion:105 Resp: 39201
Ion Ratio Lower Upper
105 100
120 47.8 37.8 56.6

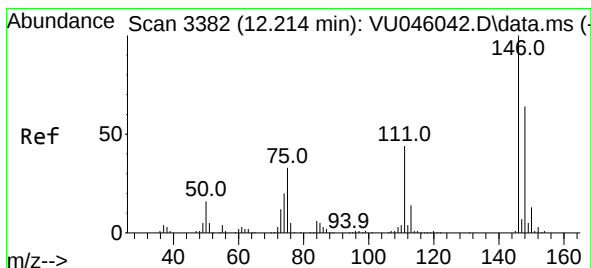
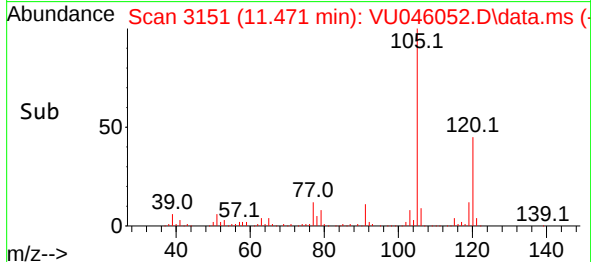
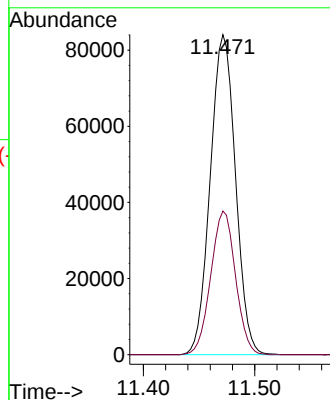
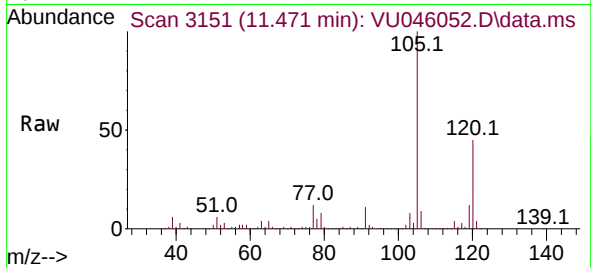




#63
1,2,4-Trimethylbenzene
Concen: 20.611 ug/L
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

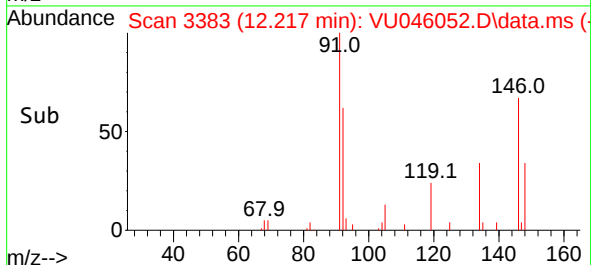
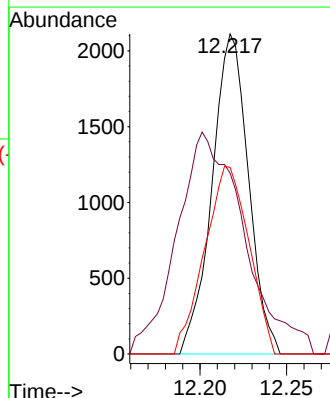
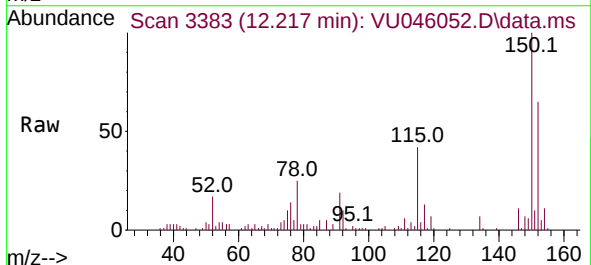
Instrument :
MSVOA_U
ClientSampleId :

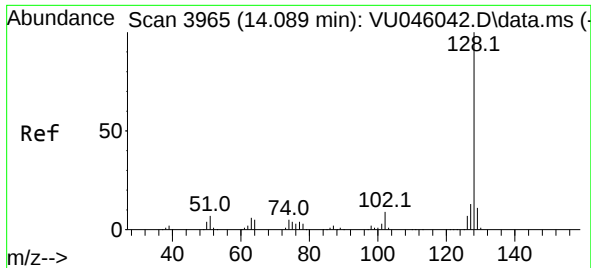
Tgt Ion:105 Resp: 132307
Ion Ratio Lower Upper
105 100
120 44.0 35.2 52.8



#67
1,2-Dichlorobenzene
Concen: 0.839 ug/L
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU046052.D
Acq: 02 Dec 2021 15:12

Tgt Ion:146 Resp: 3090
Ion Ratio Lower Upper
146 100
111 56.5 35.7 53.5#
148 58.3 51.2 76.8





#71

Naphthalene

Concen: 32.475 ug/L

RT: 14.089 min Scan# 3965

Delta R.T. -0.000 min

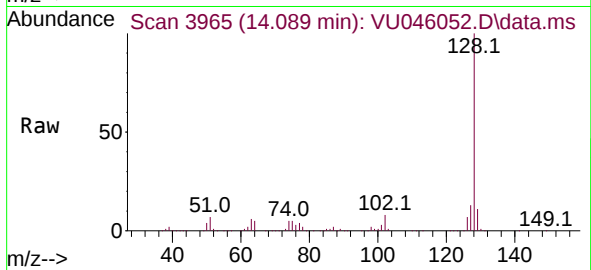
Lab File: VU046052.D

Acq: 02 Dec 2021 15:12

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:128 Resp: 267184

Ion Ratio Lower Upper

128 100

127 12.6 10.1 15.1

129 11.1 8.6 13.0

