

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122121\
 Data File : VU046543.D
 Acq On : 21 Dec 2021 23:21
 Operator : SY/MD
 Sample : M5170-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 22 05:48:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122121WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Dec 21 14:35:13 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	85444	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	83892	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	43760	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	32689	4.857	ug/L	0.01
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.200%
7) Chloroethane-d5	1.922	69	25455	4.803	ug/L	0.01
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.000%
11) 1,1-Dichloroethene-d2	2.575	65	12859	4.531	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.600%
20) 2-Butanone-d5	4.684	46	81167	41.577	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.160%
24) Chloroform-d	5.073	84	57350	4.650	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.000%
26) 1,2-Dichloroethane-d4	5.707	65	35548	5.042	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.800%
32) Benzene-d6	5.732	84	115417	4.935	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.800%
36) 1,2-Dichloropropane-d6	6.694	67	35834	5.099	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.000%
41) Toluene-d8	7.899	98	104419	4.920	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.400%
43) trans-1,3-Dichloroprop...	8.182	79	16013	4.927	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.600%
46) 2-Hexanone-d5	8.636	63	103891	54.445	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.900%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	35327	4.898	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.000%
66) 1,2-Dichlorobenzene-d4	12.195	152	42214	5.237	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.610	62	20173	1.820	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.584	101	406	0.055	ug/L #	21
12) 1,1-Dichloroethene	2.591	96	87611	11.656	ug/L #	71
18) trans-1,2-Dichloroethene	3.366	96	334789	41.753	ug/L	94
19) 1,1-Dichloroethane	3.880	63	4089	0.277	ug/L	99
21) 2-Butanone	4.732	43	5462	1.967	ug/L #	47
22) cis-1,2-Dichloroethene	4.681	96	27173520	3100.491	ug/L	83
33) Benzene	5.781	78	3657	0.110	ug/L	100
34) Trichloroethene	6.546	95	957771	108.999	ug/L	99
37) 1,2-Dichloropropane	6.697	63	3872	0.455	ug/L #	88
40) 4-Methyl-2-pentanone	7.796	43	13493	2.114	ug/L	98
42) Toluene	7.970	91	19499	0.570	ug/L	99
45) 1,1,2-Trichloroethane	8.555	97	9179	1.252	ug/L #	10
47) Tetrachloroethene	8.559	164	939528	151.103	ug/L	97
49) Dibromochloromethane	8.555	129	932624	110.269	ug/L #	10
51) Chlorobenzene	9.449	112	1616	0.074	ug/L	93
52) Ethylbenzene	9.571	91	15556	0.439	ug/L	99
53) m,p-Xylene	9.694	106	14097	1.039	ug/L	100
54) o-Xylene	10.102	106	3636	0.279	ug/L	91

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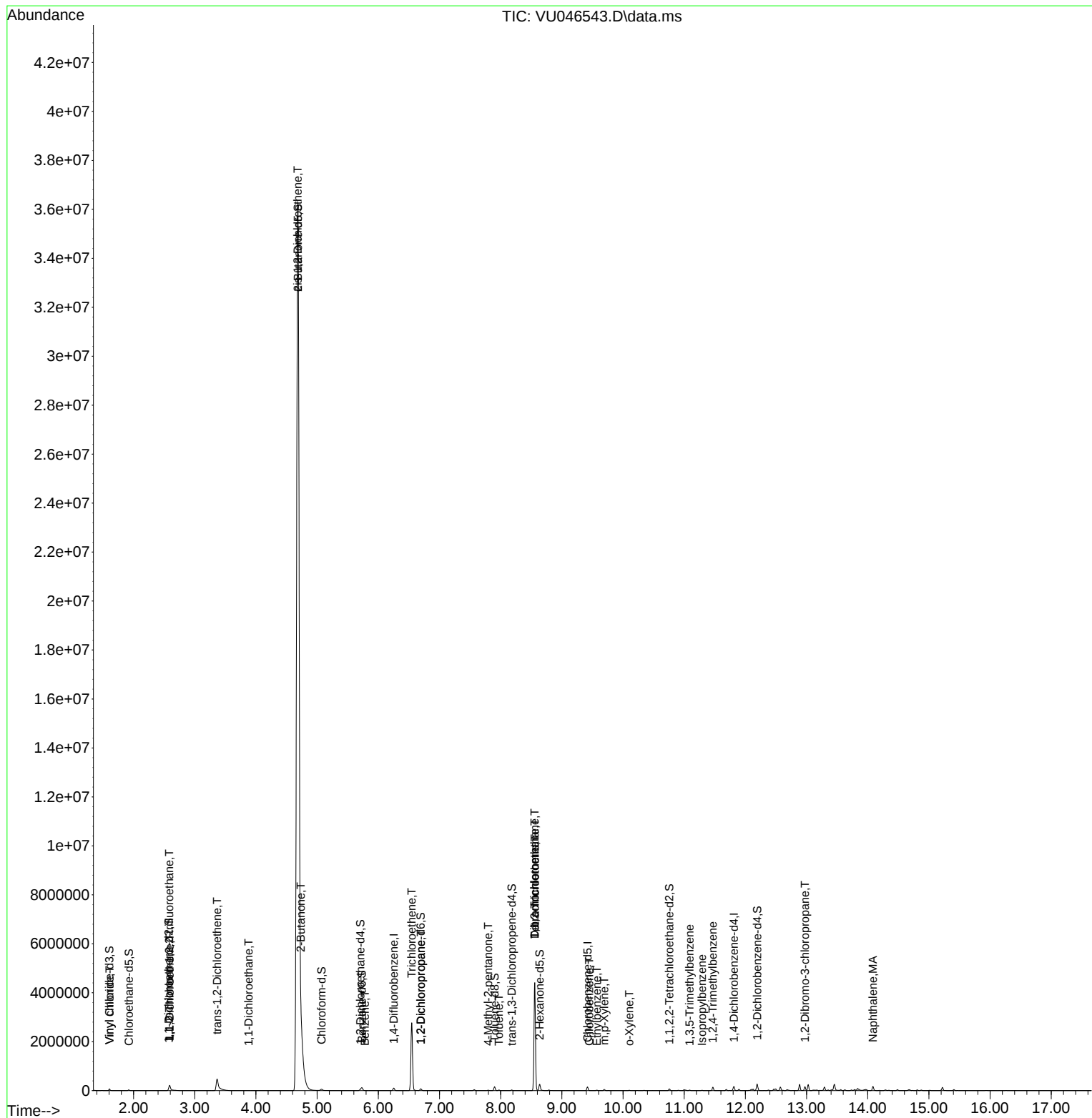
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) Isopropylbenzene	11.292	105	8703	0.258	ug/L	94
62) 1,3,5-Trimethylbenzene	11.089	105	13213	0.471	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	75817	2.682	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.973	75	688	0.409	ug/L #	7
71) Naphthalene	14.086	128	135497	5.802	ug/L	99

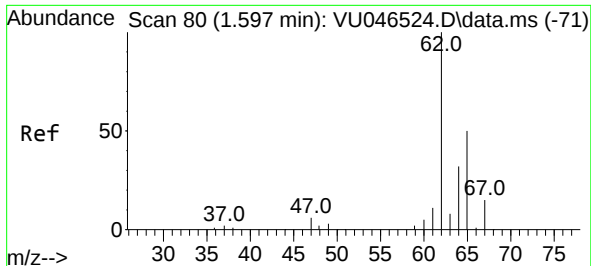
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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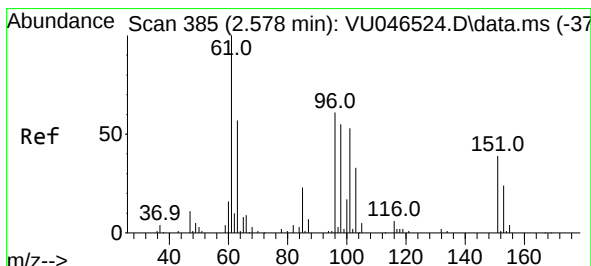
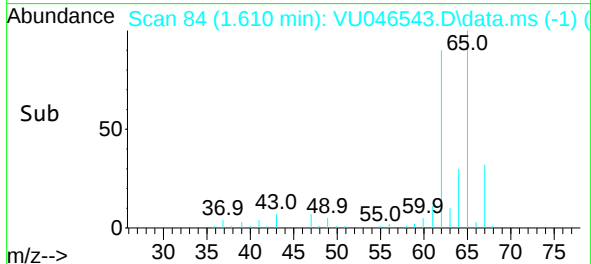
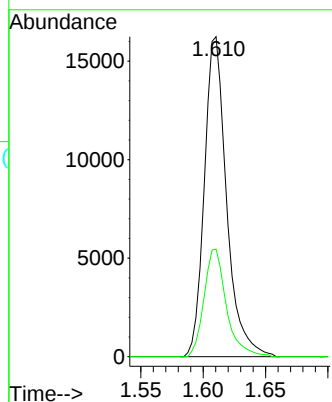
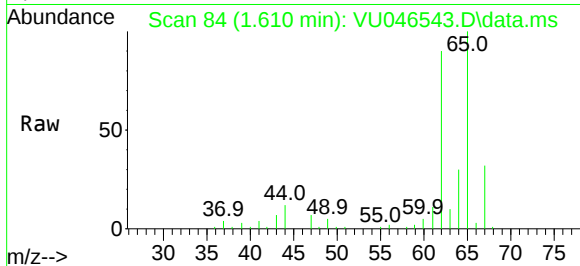




#5
 Vinyl chloride
 Concen: 1.820 ug/L
 RT: 1.610 min Scan# 84
 Delta R.T. 0.013 min
 Lab File: VU046543.D
 Acq: 21 Dec 2021 23:21

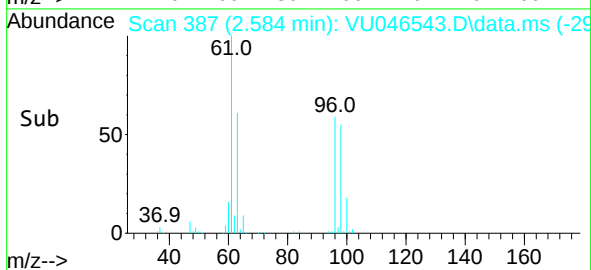
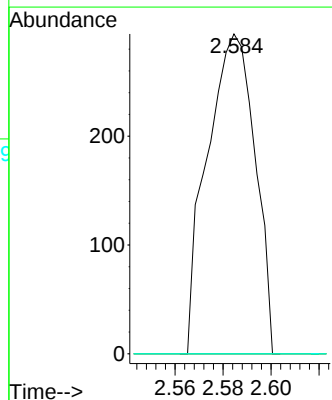
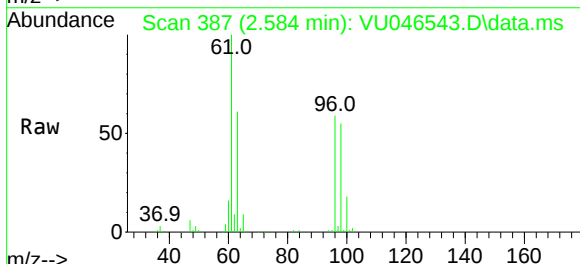
Instrument :
 MSVOA_U
 ClientSampleId :

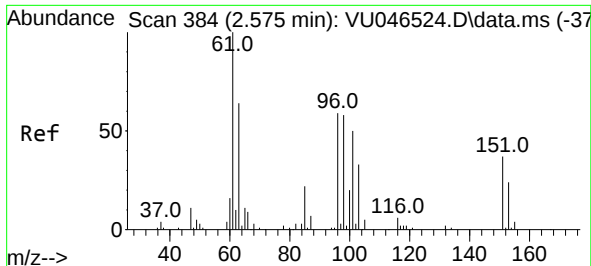
Tgt Ion: 62 Resp: 20173
 Ion Ratio Lower Upper
 62 100
 64 33.6 22.9 42.5



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.055 ug/L
 RT: 2.584 min Scan# 387
 Delta R.T. 0.006 min
 Lab File: VU046543.D
 Acq: 21 Dec 2021 23:21

Tgt Ion: 101 Resp: 406
 Ion Ratio Lower Upper
 101 100
 85 0.0 34.6 51.8#
 151 0.0 56.1 84.1#





#12

1,1-Dichloroethene

Concen: 11.656 ug/L

RT: 2.591 min Scan# 384

Delta R.T. 0.016 min

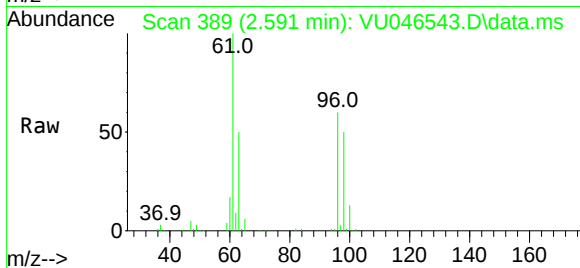
Lab File: VU046543.D

Acq: 21 Dec 2021 23:21

Instrument :

MSVOA_U

ClientSampleId :



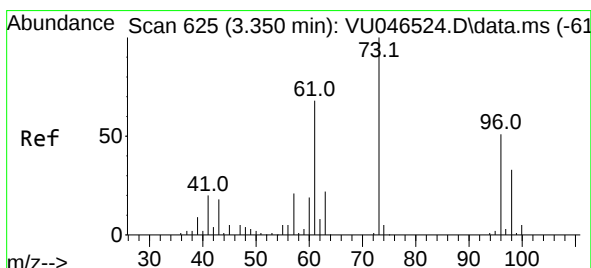
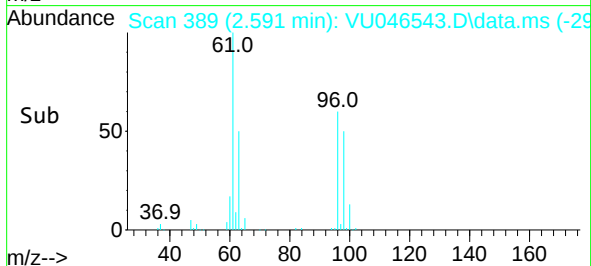
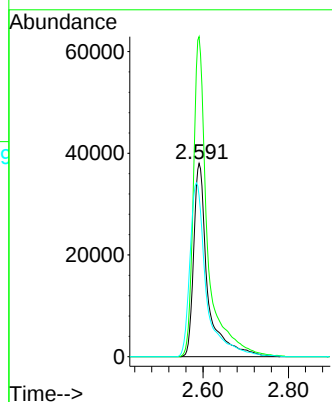
Tgt Ion: 96 Resp: 87611

Ion Ratio Lower Upper

96 100

61 165.6 124.7 231.5

63 83.4 105.2 195.4#



#18

trans-1,2-Dichloroethene

Concen: 41.753 ug/L

RT: 3.366 min Scan# 630

Delta R.T. 0.016 min

Lab File: VU046543.D

Acq: 21 Dec 2021 23:21

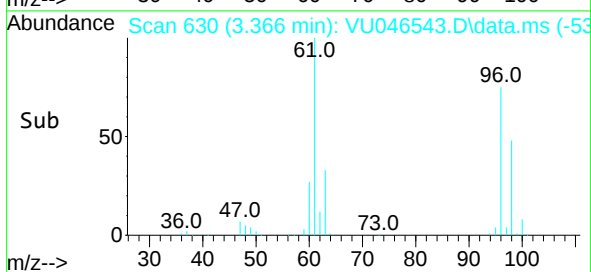
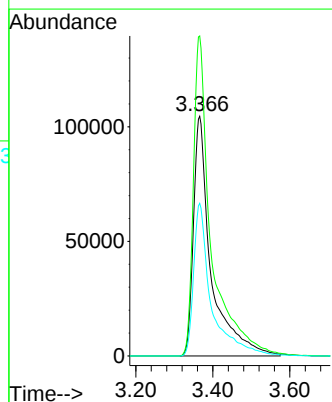
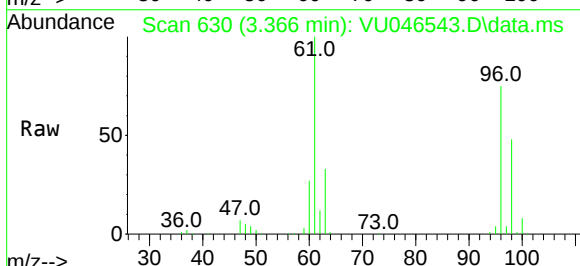
Tgt Ion: 96 Resp: 334789

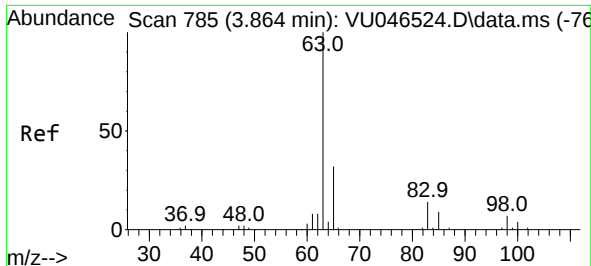
Ion Ratio Lower Upper

96 100

61 133.5 100.8 187.2

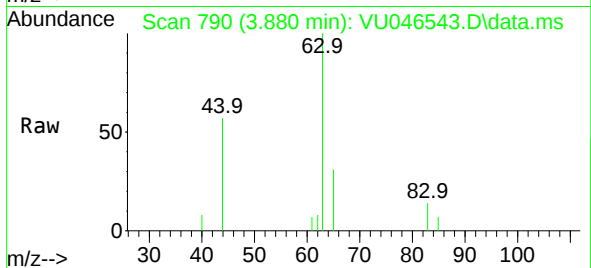
98 63.7 45.1 83.7



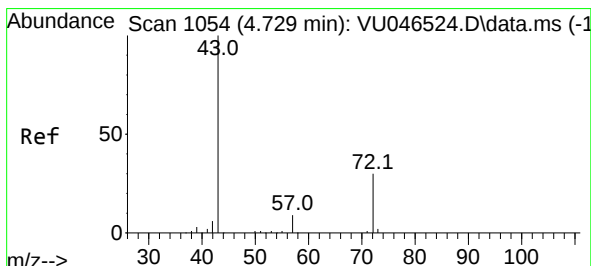
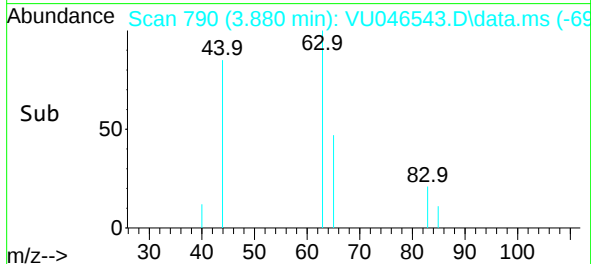
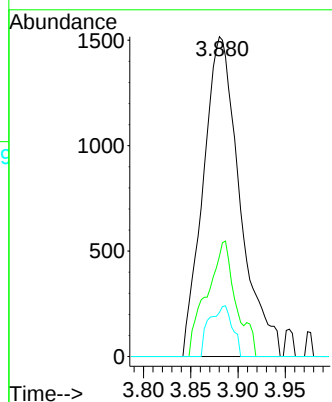


#19
1,1-Dichloroethane
Concen: 0.277 ug/L
RT: 3.880 min Scan# 790
Delta R.T. 0.016 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Instrument :
MSVOA_U
ClientSampleId :

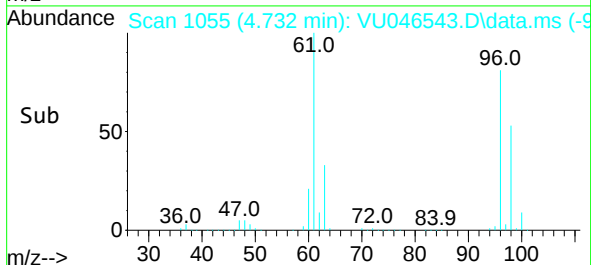
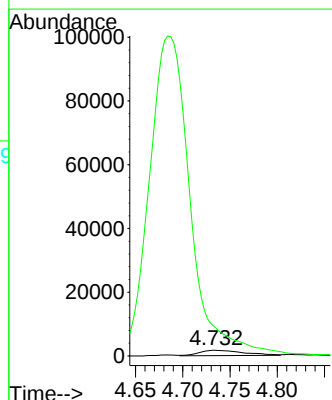
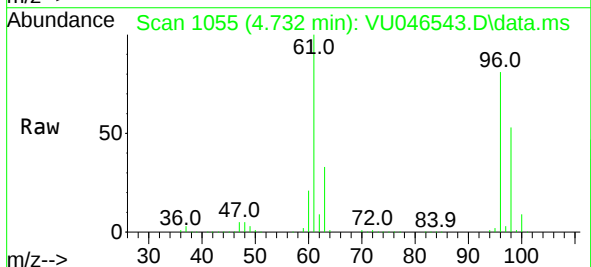


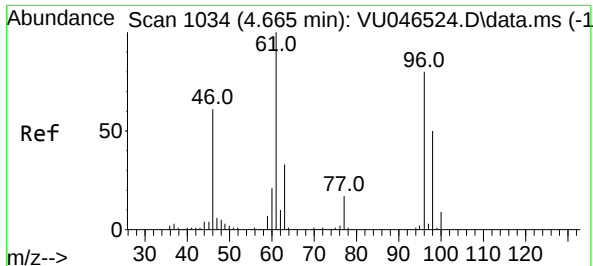
Tgt Ion: 63 Resp: 4089
Ion Ratio Lower Upper
63 100
65 31.3 22.3 41.5
83 13.8 9.6 17.8



#21
2-Butanone
Concen: 1.967 ug/L
RT: 4.732 min Scan# 1055
Delta R.T. 0.003 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Tgt Ion: 43 Resp: 5462
Ion Ratio Lower Upper
43 100
72 0.0 14.1 42.3#





#22

cis-1,2-Dichloroethene

Concen: 3100.491 ug/L

RT: 4.681 min Scan# 110

Delta R.T. 0.016 min

Lab File: VU046543.D

Acq: 21 Dec 2021 23:21

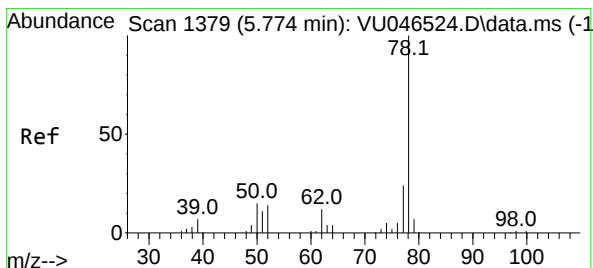
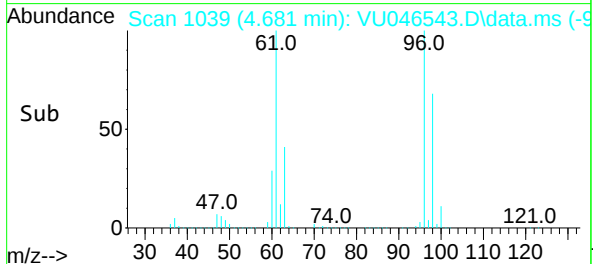
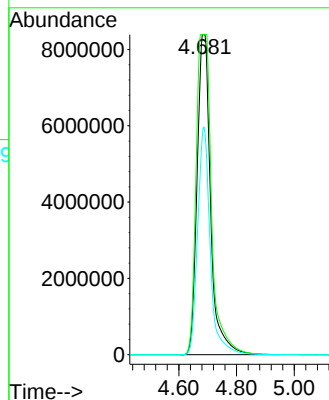
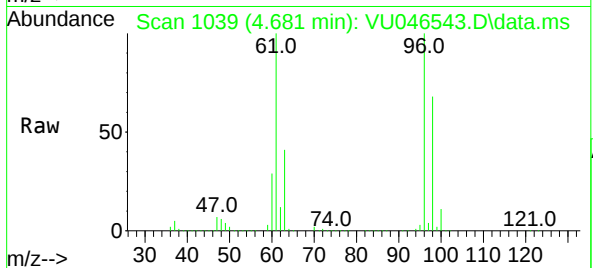
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 96 Resp:27173520

Ion	Ratio	Lower	Upper
96	100		
61	100.0	88.5	164.3
98	68.1	44.4	82.5



#33

Benzene

Concen: 0.110 ug/L

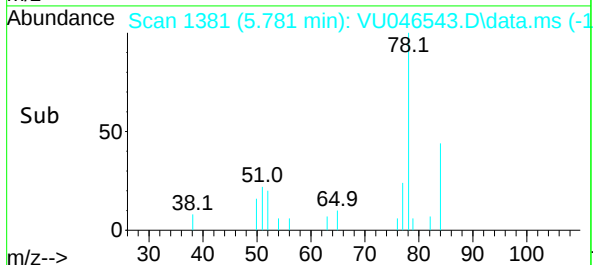
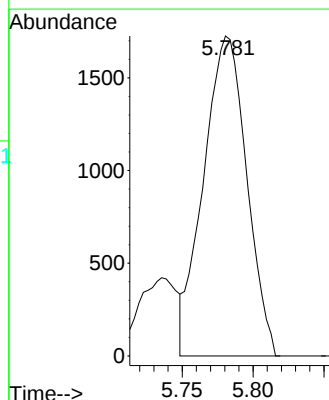
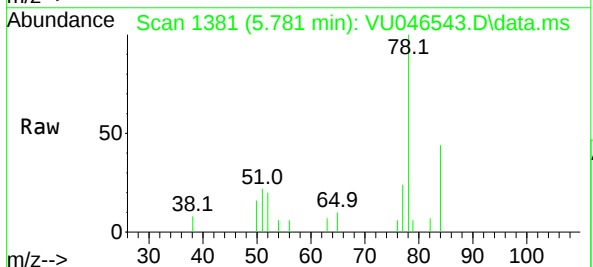
RT: 5.781 min Scan# 1381

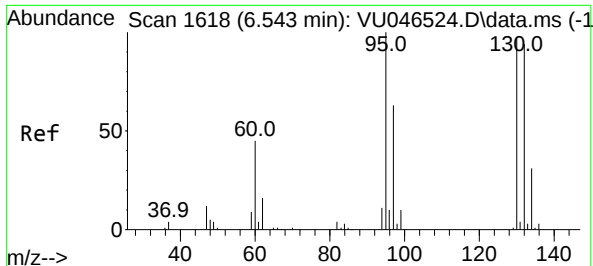
Delta R.T. 0.006 min

Lab File: VU046543.D

Acq: 21 Dec 2021 23:21

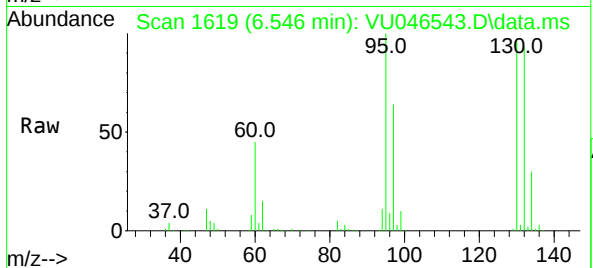
Tgt Ion: 78 Resp: 3657



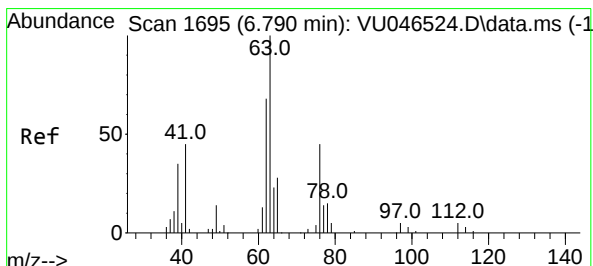
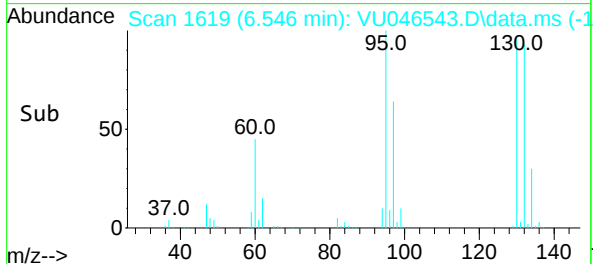
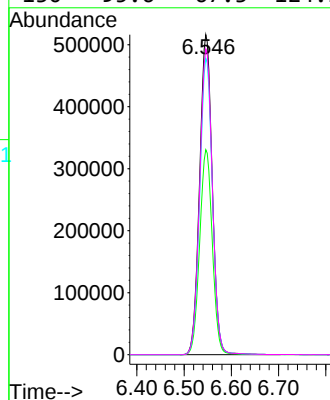


#34
Trichloroethene
Concen: 108.999 ug/L
RT: 6.546 min Scan# 1618
Delta R.T. 0.003 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Instrument :
MSVOA_U
ClientSampleId :

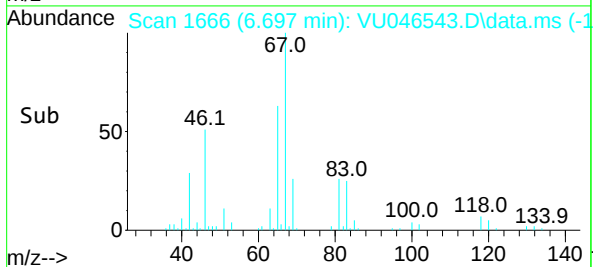
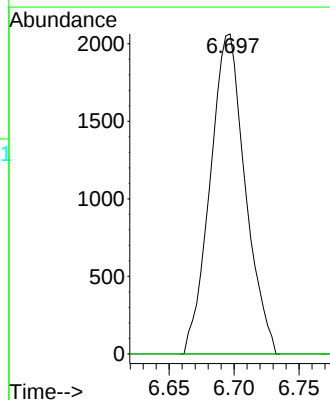
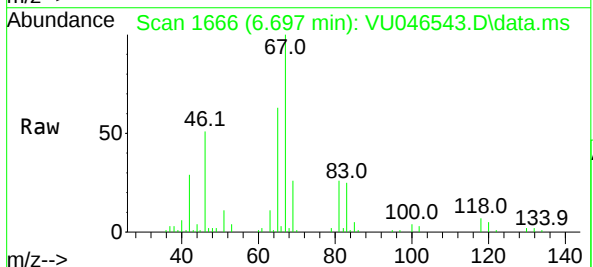


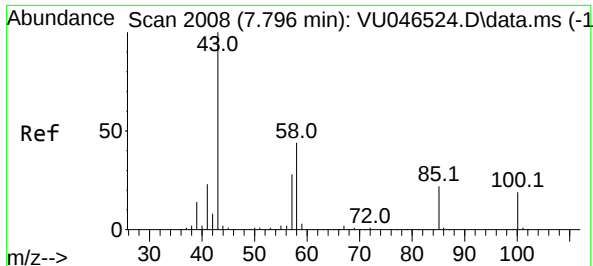
Tgt Ion: 95 Resp: 957771
Ion Ratio Lower Upper
95 100
97 64.0 46.5 86.5
132 92.6 65.1 120.9
130 95.6 67.3 124.9



#37
1,2-Dichloropropane
Concen: 0.455 ug/L
RT: 6.697 min Scan# 1666
Delta R.T. -0.093 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Tgt Ion: 63 Resp: 3872
Ion Ratio Lower Upper
63 100
112 0.0 3.2 4.8#





#40

4-Methyl-2-pentanone

Concen: 2.114 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. 0.000 min

Lab File: VU046543.D

Acq: 21 Dec 2021 23:21

Instrument :

MSVOA_U

ClientSampleId :

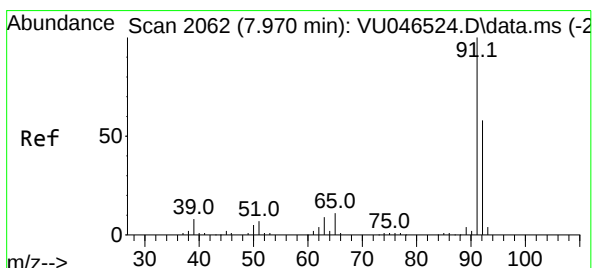
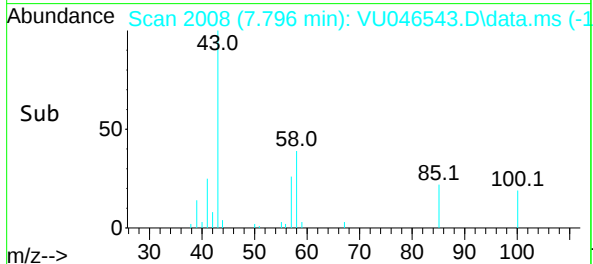
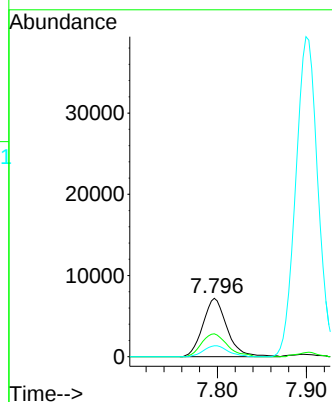
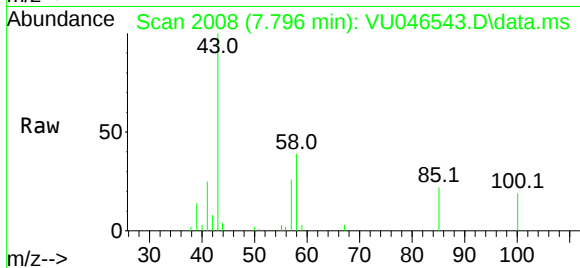
Tgt Ion: 43 Resp: 13493

Ion Ratio Lower Upper

43 100

58 41.7 33.1 49.7

100 18.8 13.2 19.8



#42

Toluene

Concen: 0.570 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU046543.D

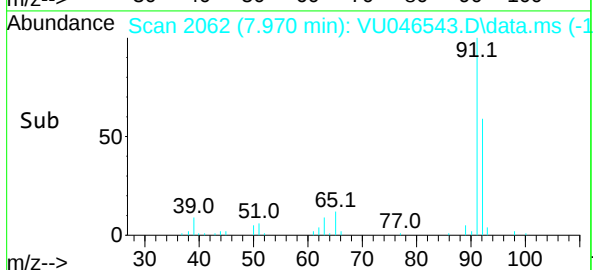
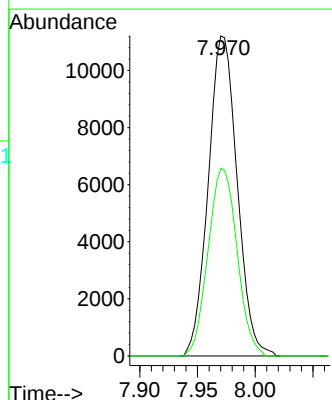
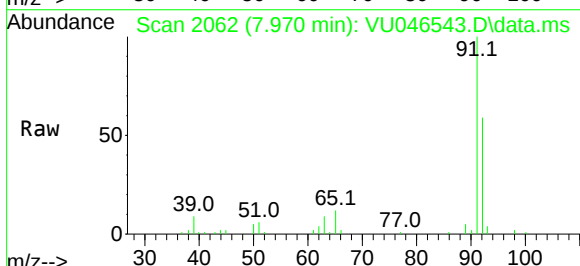
Acq: 21 Dec 2021 23:21

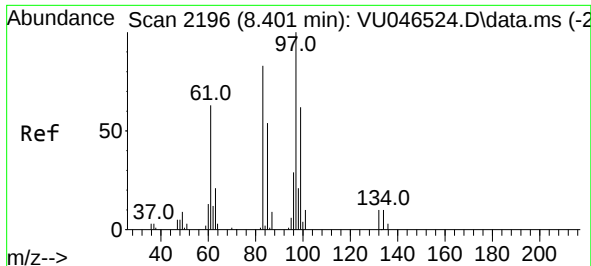
Tgt Ion: 91 Resp: 19499

Ion Ratio Lower Upper

91 100

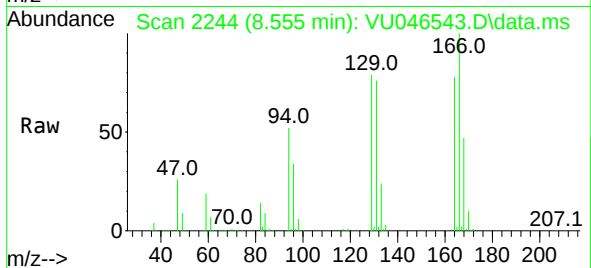
92 58.6 41.3 76.7



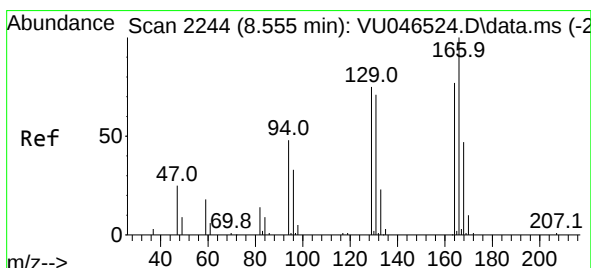
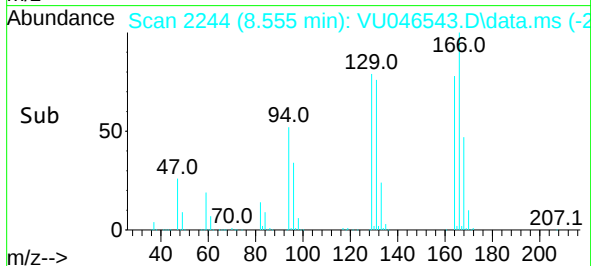
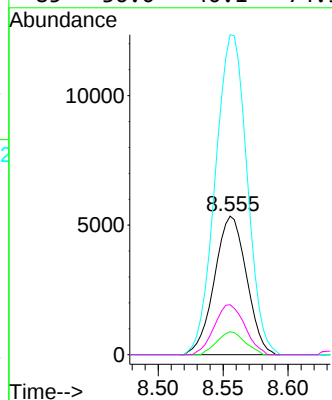


#45
1,1,2-Trichloroethane
Concen: 1.252 ug/L
RT: 8.555 min Scan# 2196
Delta R.T. 0.154 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Instrument :
MSVOA_U
ClientSampleId :

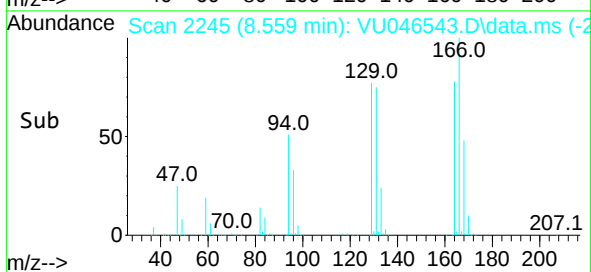
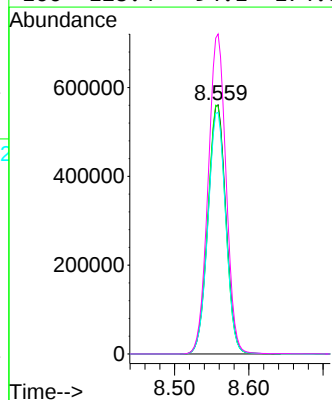
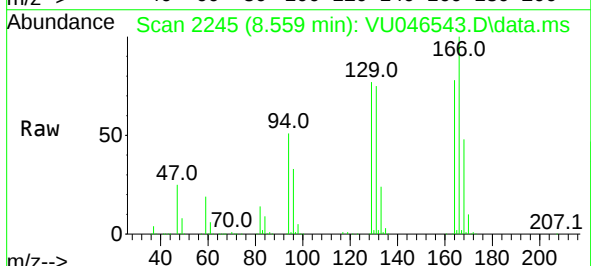


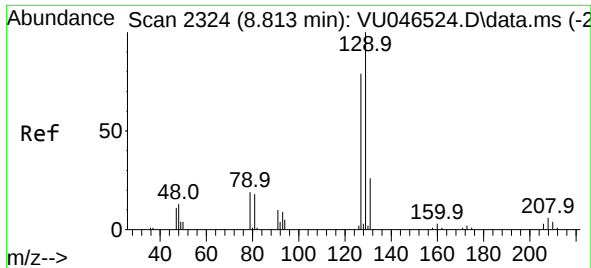
Tgt Ion:	97	Resp:	9179
Ion	Ratio	Lower	Upper
97	100		
99	16.5	42.3	78.5#
83	230.9	62.0	115.2#
85	36.0	40.1	74.5#



#47
Tetrachloroethene
Concen: 151.103 ug/L
RT: 8.559 min Scan# 2245
Delta R.T. 0.003 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Tgt Ion:	164	Resp:	939528
Ion	Ratio	Lower	Upper
164	100		
129	99.5	71.8	133.4
131	96.9	68.5	127.3
166	128.4	94.1	174.8

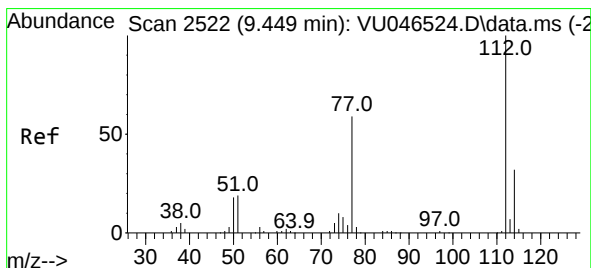
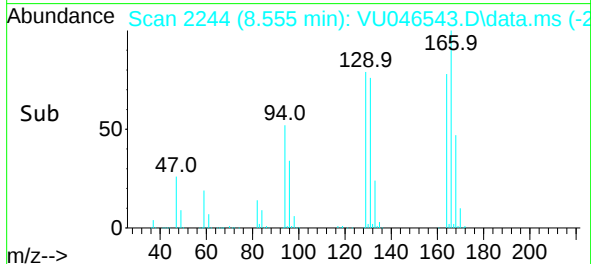
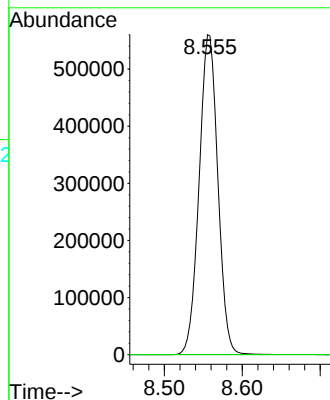
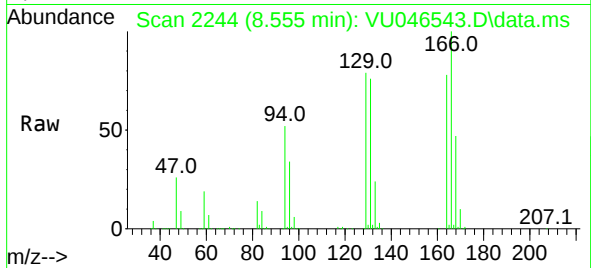




#49
Dibromochloromethane
Concen: 110.269 ug/L
RT: 8.555 min Scan# 211
Delta R.T. -0.257 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

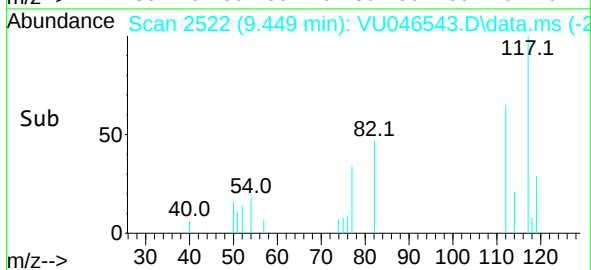
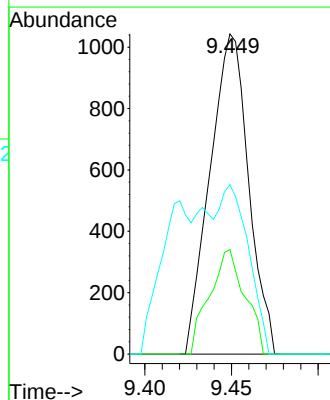
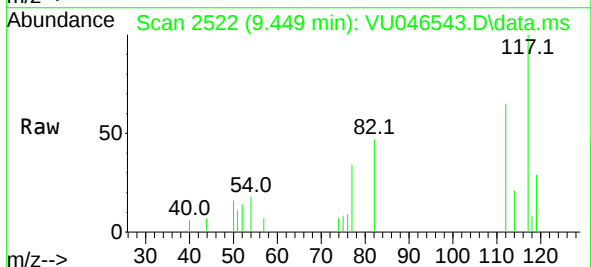
Instrument :
MSVOA_U
ClientSampleId :

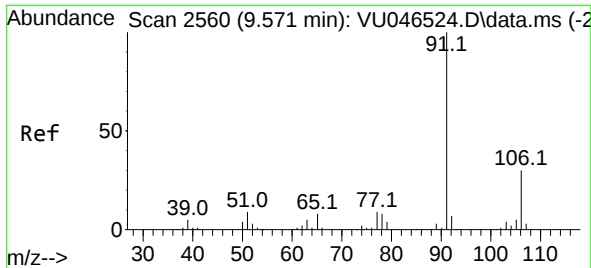
Tgt Ion:129 Resp: 932624
Ion Ratio Lower Upper
129 100
127 0.0 55.4 102.8#



#51
Chlorobenzene
Concen: 0.074 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Tgt Ion:112 Resp: 1616
Ion Ratio Lower Upper
112 100
114 32.6 22.1 41.1
77 52.9 48.3 72.5

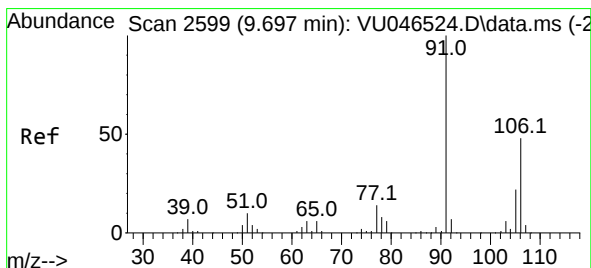
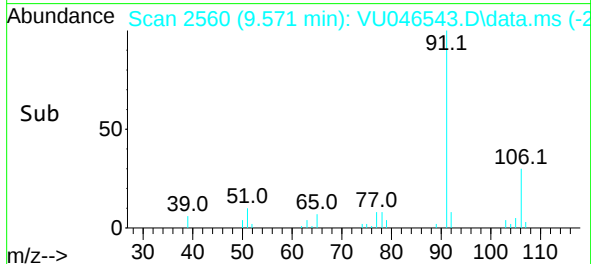
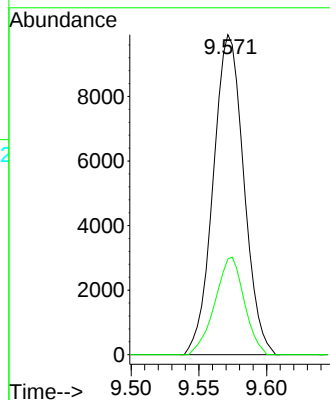
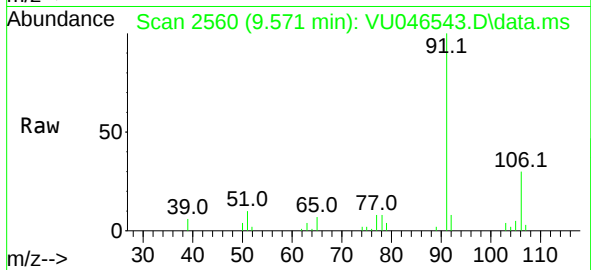




#52
Ethylbenzene
Concen: 0.439 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

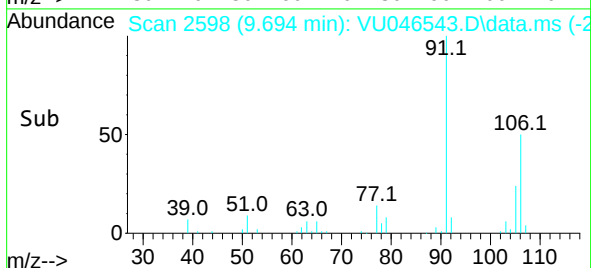
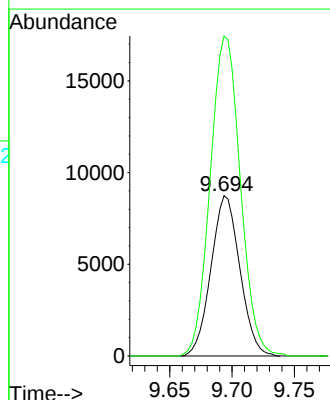
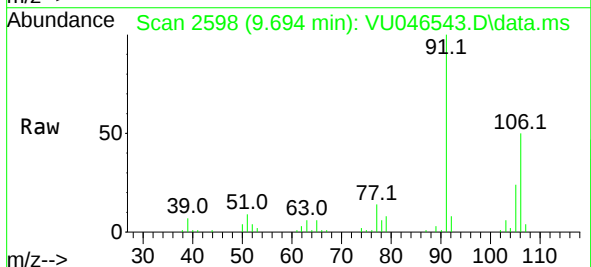
Instrument :
MSVOA_U
ClientSampleId :

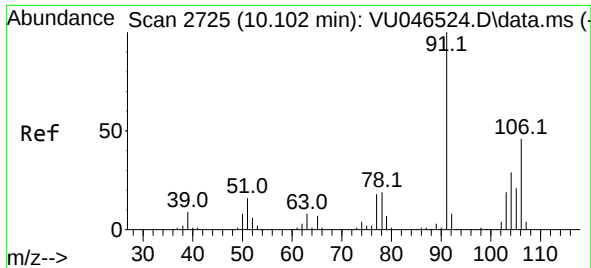
Tgt Ion: 91 Resp: 15556
Ion Ratio Lower Upper
91 100
106 29.9 21.5 39.9



#53
m,p-Xylene
Concen: 1.039 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Tgt Ion: 106 Resp: 14097
Ion Ratio Lower Upper
106 100
91 199.5 139.4 259.0

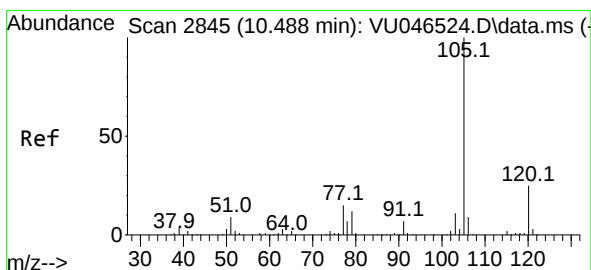
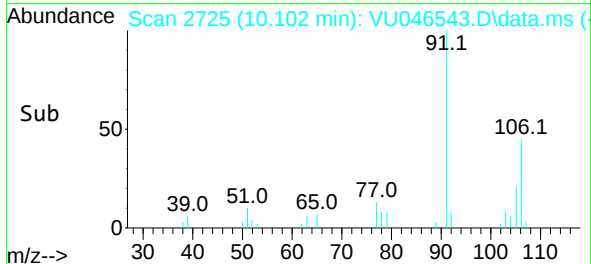
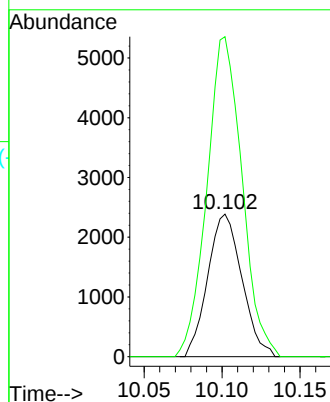
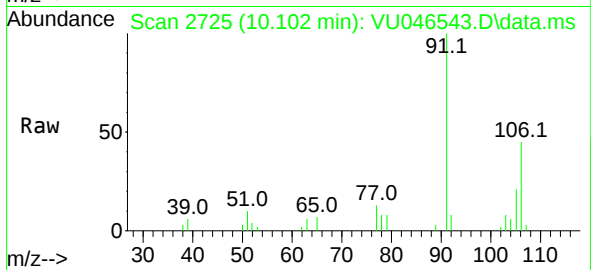




#54
o-Xylene
Concen: 0.279 ug/L
RT: 10.102 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

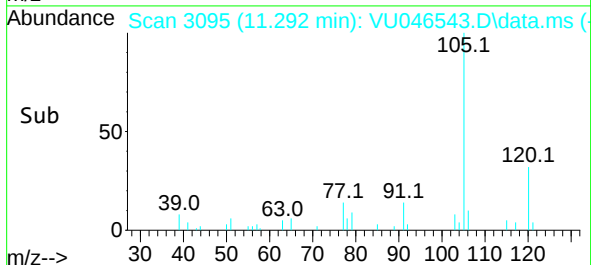
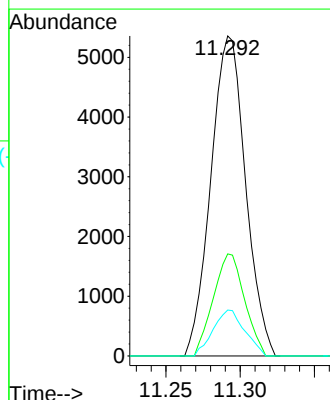
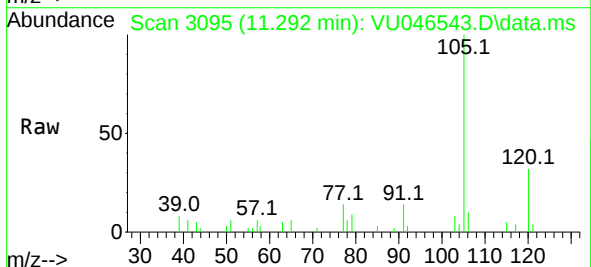
Instrument :
MSVOA_U
ClientSampleId :

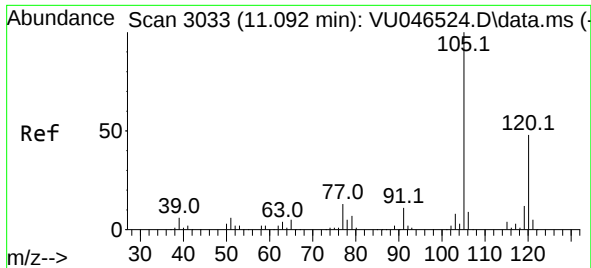
Tgt Ion:106 Resp: 3636
Ion Ratio Lower Upper
106 100
91 224.5 147.5 273.9



#60
Isopropylbenzene
Concen: 0.258 ug/L
RT: 11.292 min Scan# 3095
Delta R.T. 0.804 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Tgt Ion:105 Resp: 8703
Ion Ratio Lower Upper
105 100
120 28.7 20.7 31.1
77 13.1 12.6 19.0





#62

1,3,5-Trimethylbenzene

Concen: 0.471 ug/L

RT: 11.089 min Scan# 3033

Delta R.T. -0.003 min

Lab File: VU046543.D

Acq: 21 Dec 2021 23:21

Instrument :

MSVOA_U

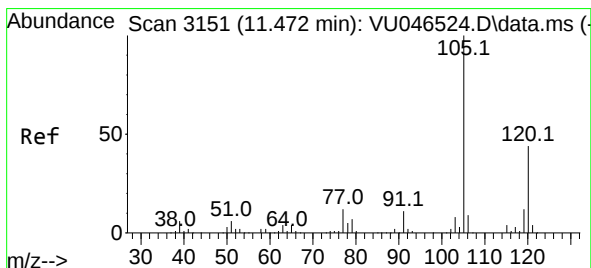
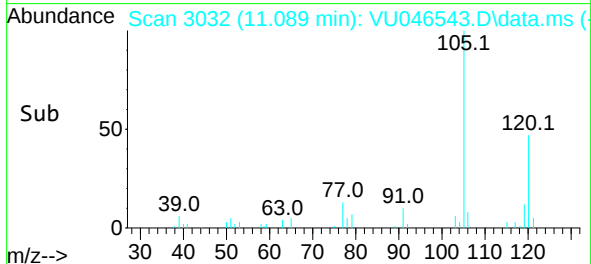
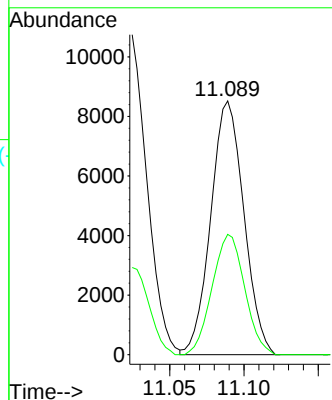
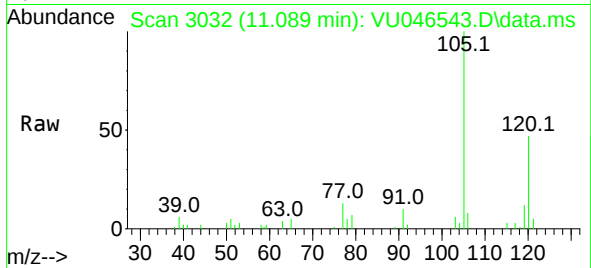
ClientSampleId :

Tgt Ion:105 Resp: 13213

Ion Ratio Lower Upper

105 100

120 46.5 38.3 57.5



#63

1,2,4-Trimethylbenzene

Concen: 2.682 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046543.D

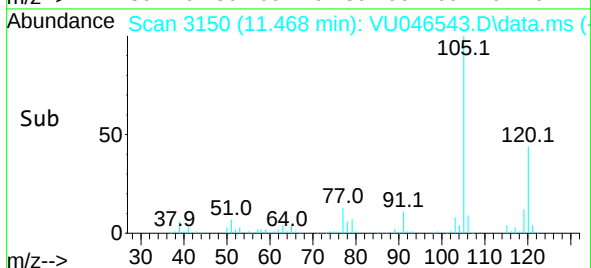
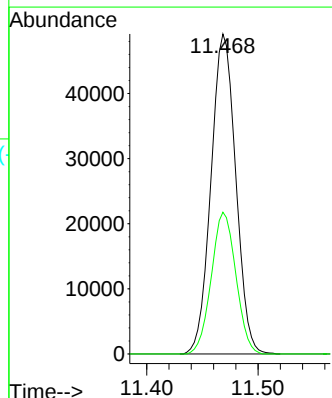
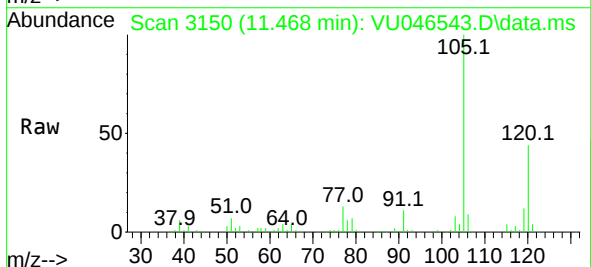
Acq: 21 Dec 2021 23:21

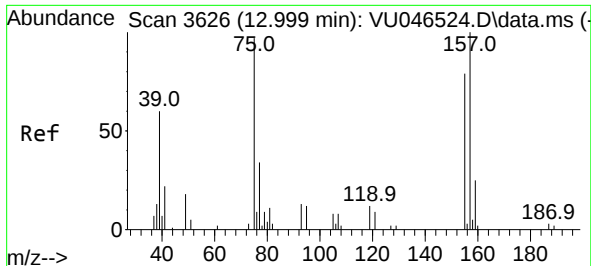
Tgt Ion:105 Resp: 75817

Ion Ratio Lower Upper

105 100

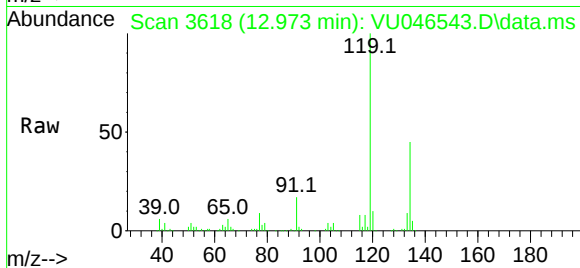
120 43.9 35.8 53.8



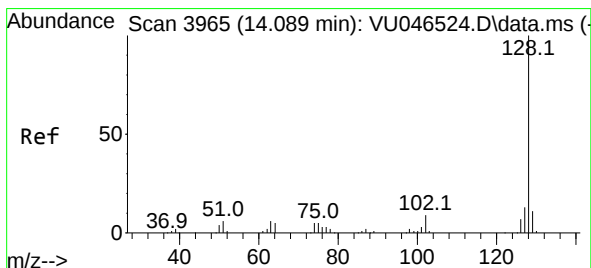
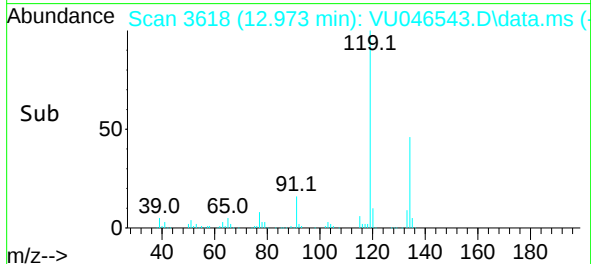
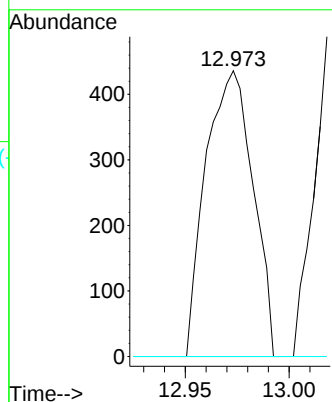


#68
1,2-Dibromo-3-chloropropane
Concen: 0.409 ug/L
RT: 12.973 min Scan# 3618
Delta R.T. -0.026 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 75 Resp: 688
Ion Ratio Lower Upper
75 100
155 0.0 59.2 88.8#
157 0.0 76.5 114.7#



#71
Naphthalene
Concen: 5.802 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046543.D
Acq: 21 Dec 2021 23:21

Tgt Ion: 128 Resp: 135497
Ion Ratio Lower Upper
128 100
129 10.9 8.4 12.6
127 12.8 10.2 15.2

