

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100721\
 Data File : VU045231.D
 Acq On : 08 Oct 2021 00:39
 Operator : SY/MD
 Sample : M4138-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 08 02:14:03 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 07 22:18:46 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	293457	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.424	117	303954	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	147662	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	111623	34.746	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	69.500%		
7) Chloroethane-d5	1.893	69	97808	38.421	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	76.840%		
11) 1,1-Dichloroethene-d2	2.562	63	151809	28.139	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	56.280%#		
21) 2-Butanone-d5	4.626	46	210326	82.815	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	82.810%		
24) Chloroform-d	5.067	84	202410	39.893	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	79.780%		
26) 1,2-Dichloroethane-d4	5.707	65	145222	42.255	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	84.520%		
32) Benzene-d6	5.729	84	420543	39.873	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	79.740%		
36) 1,2-Dichloropropane-d6	6.694	67	137282	39.918	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	79.840%		
41) Toluene-d8	7.903	98	390550	42.908	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	85.820%		
43) trans-1,3-Dichloroprop...	8.182	79	61582	40.255	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	80.520%		
47) 2-Hexanone-d5	8.639	63	153402	80.491	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	80.490%		
56) 1,1,2,2-Tetrachloroeth...	10.761	84	217629	40.638	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	81.280%		
66) 1,2-Dichlorobenzene-d4	12.198	152	146736	45.662	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	91.320%		
Target Compounds					Qvalue	
3) Chloromethane	1.491	50	18718	5.344	ug/L #	42
5) Vinyl chloride	1.604	62	2408	0.702	ug/L #	1
8) Chloroethane	1.842	64	37366	17.351	ug/L #	52
12) 1,1-Dichloroethene	2.572	96	2520	1.109	ug/L #	1
13) Acetone	2.633	43	14518	4.945	ug/L	98
14) Carbon disulfide	2.790	76	15471	2.125	ug/L	98
19) 1,1-Dichloroethane	3.874	63	141957	28.504	ug/L	98
20) cis-1,2-Dichloroethene	4.674	96	3251	1.232	ug/L	82
22) 2-Butanone	4.710	43	117100	35.638	ug/L	98
29) Cyclohexane	5.391	56	16348	3.578	ug/L	97
33) Benzene	5.777	78	176478	15.654	ug/L	100
35) Methylcyclohexane	6.764	83	49685	10.960	ug/L	97
40) 4-Methyl-2-pentanone	7.797	43	86280	16.827	ug/L	97
42) Toluene	7.977	91	11342866	990.254	ug/L	96
44) trans-1,3-Dichloropropene	8.182	75	3013	0.721	ug/L	87
45) 1,1,2-Trichloroethane	8.375	97	1780	0.640	ug/L #	14
48) 2-Hexanone	8.639	43	33894	7.454	ug/L #	61
51) Chlorobenzene	9.452	112	3381	0.478	ug/L #	83
55) Styrene	10.118	104	566728	73.160	ug/L #	1

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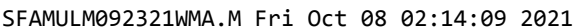
Instrument :
MSVOA_U
ClientSampleId :

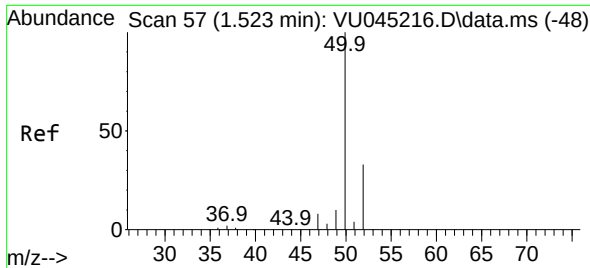
Quant Time: Oct 08 02:14:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 07 22:18:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Isopropylbenzene	10.488	105	716967	66.345	ug/L	100
62) 1,3,5-Trimethylbenzene	11.092	105	404131	44.779	ug/L	99
63) 1,2,4-Trimethylbenzene	11.472	105	1336630	144.630	ug/L	100
71) Naphthalene	14.089	128	130418	13.068	ug/L	100

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

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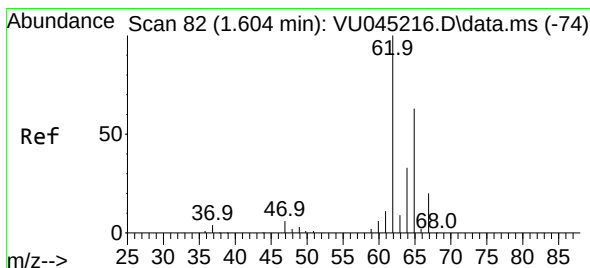
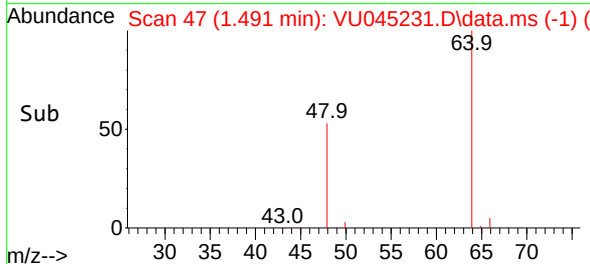
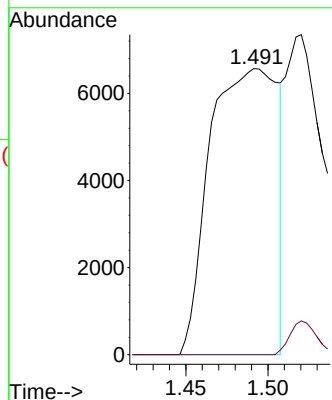
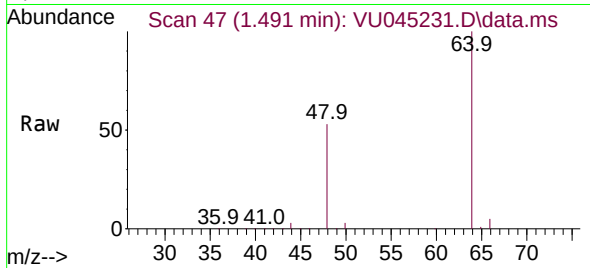




#3
Chloromethane
Concen: 5.344 ug/L
RT: 1.491 min Scan# 47
Delta R.T. -0.032 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

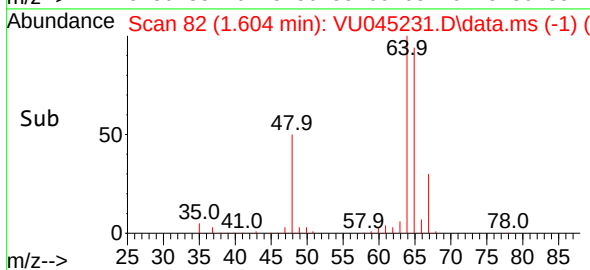
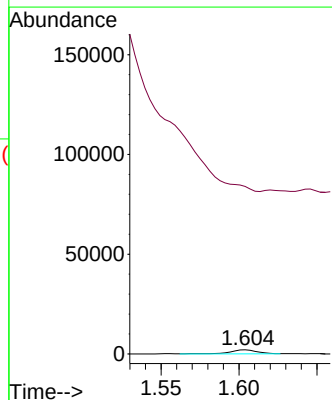
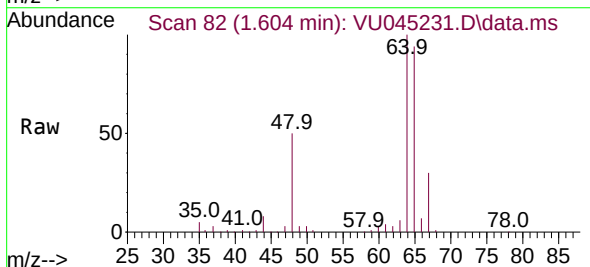
Instrument :
MSVOA_U
ClientSampled :

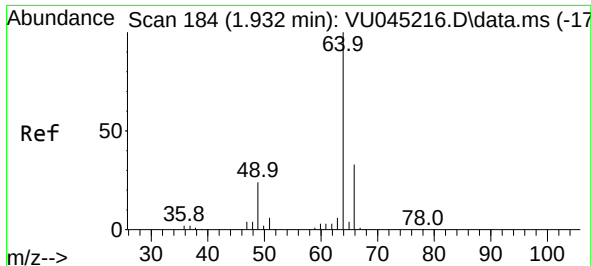
Tgt Ion: 50 Resp: 18718
Ion Ratio Lower Upper
50 100
52 0.0 23.0 42.8#



#5
Vinyl chloride
Concen: 0.702 ug/L
RT: 1.604 min Scan# 82
Delta R.T. 0.000 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

Tgt Ion: 62 Resp: 2408
Ion Ratio Lower Upper
62 100
64 3947.7 23.4 43.6#

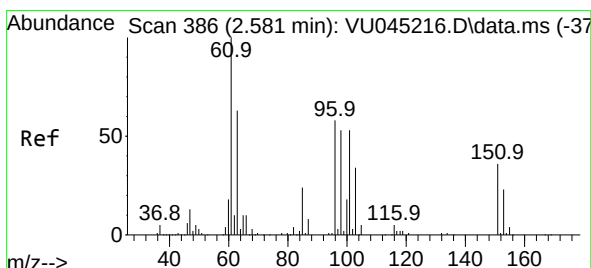
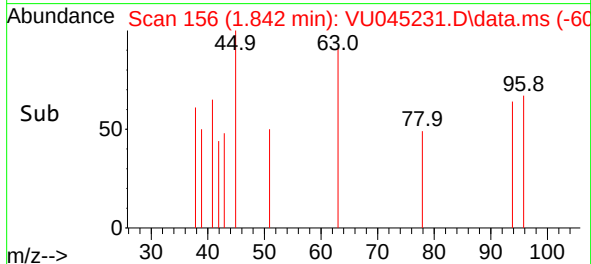
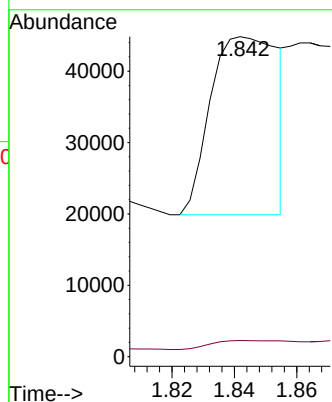
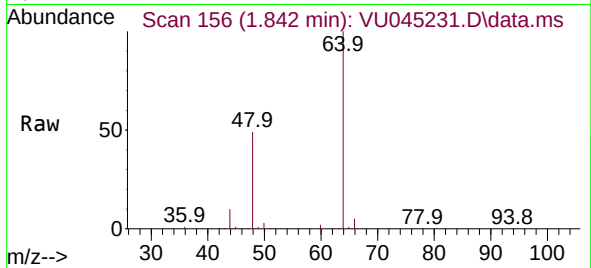




#8
Chloroethane
Concen: 17.351 ug/L
RT: 1.842 min Scan# 156
Delta R.T. -0.090 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

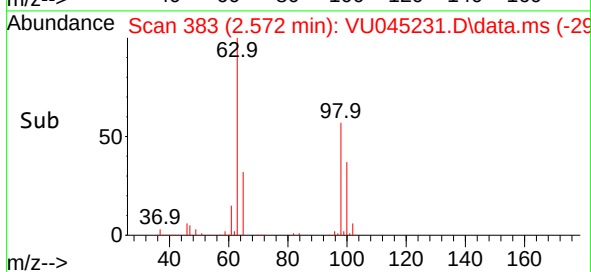
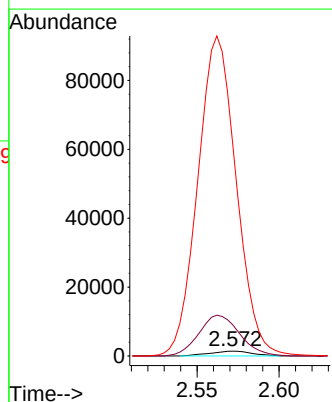
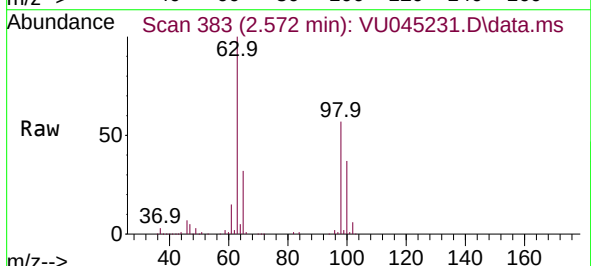
Instrument :
MSVOA_U
ClientSampled :

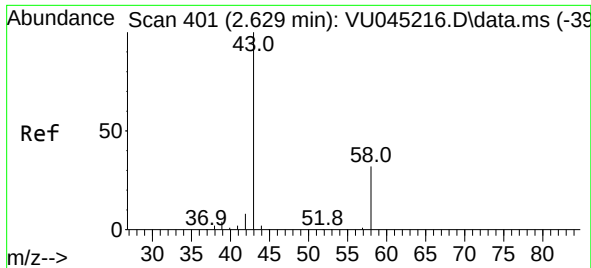
Tgt Ion: 64 Resp: 37366
Ion Ratio Lower Upper
64 100
66 5.1 22.3 41.3#



#12
1,1-Dichloroethene
Concen: 1.109 ug/L
RT: 2.572 min Scan# 383
Delta R.T. -0.010 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

Tgt Ion: 96 Resp: 2520
Ion Ratio Lower Upper
96 100
61 641.3 131.3 243.9#
63 4366.9 102.5 190.3#

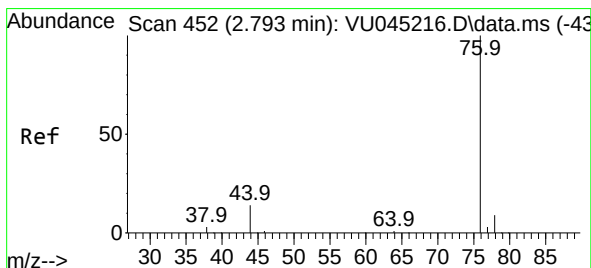
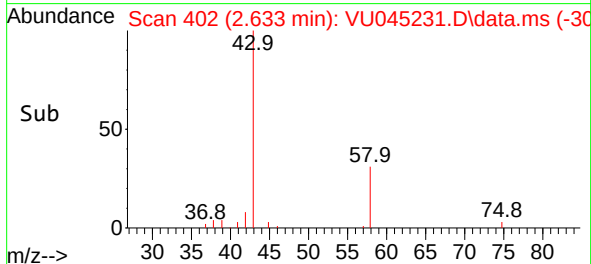
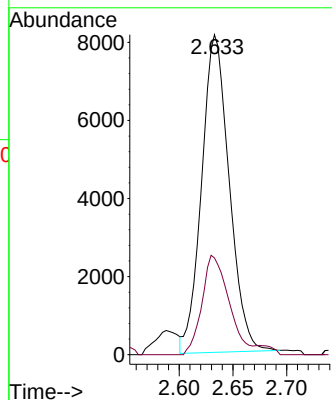
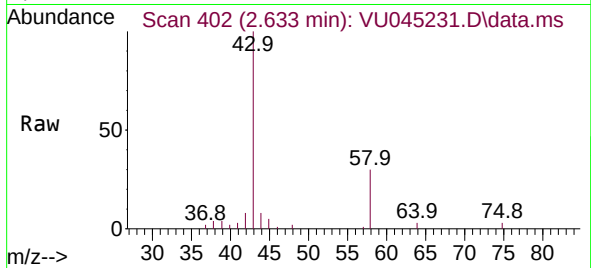




#13
Acetone
Concen: 4.945 ug/L
RT: 2.633 min Scan# 402
Delta R.T. 0.003 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

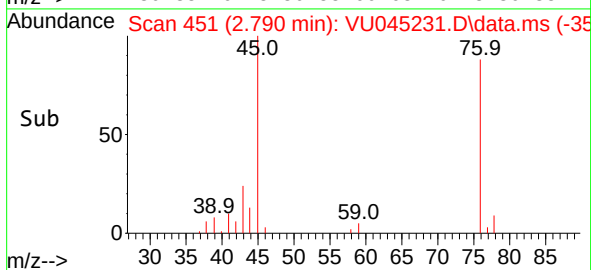
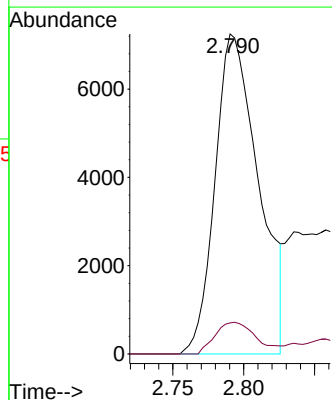
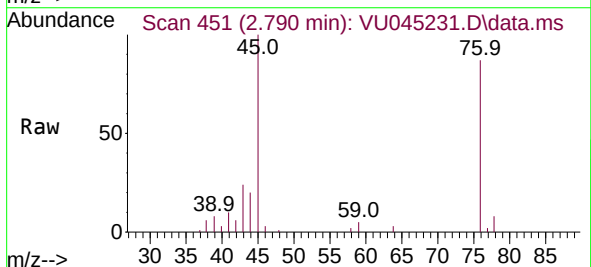
Instrument :
MSVOA_U
ClientSampled :

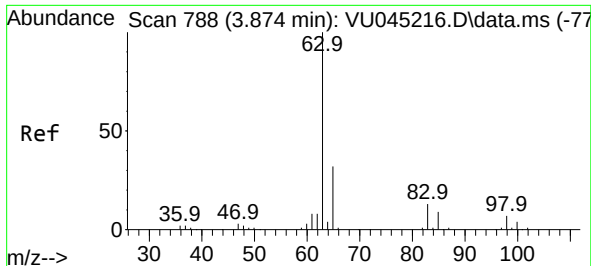
Tgt Ion: 43 Resp: 14518
Ion Ratio Lower Upper
43 100
58 30.4 0.0 62.8



#14
Carbon disulfide
Concen: 2.125 ug/L
RT: 2.790 min Scan# 451
Delta R.T. -0.003 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

Tgt Ion: 76 Resp: 15471
Ion Ratio Lower Upper
76 100
78 9.7 7.3 10.9





#19

1,1-Dichloroethane

Concen: 28.504 ug/L

RT: 3.874 min Scan# 788

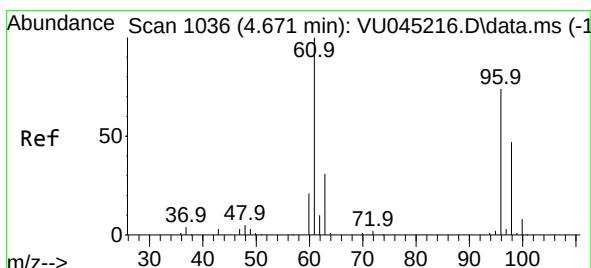
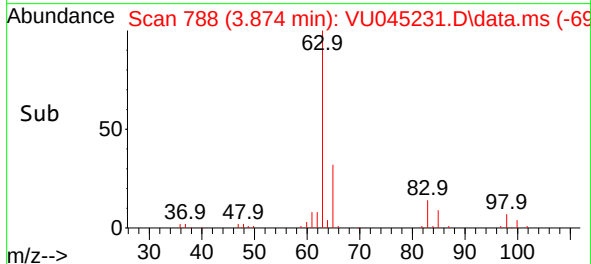
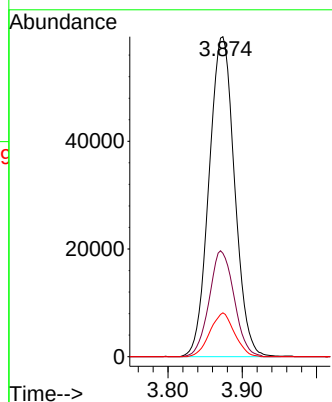
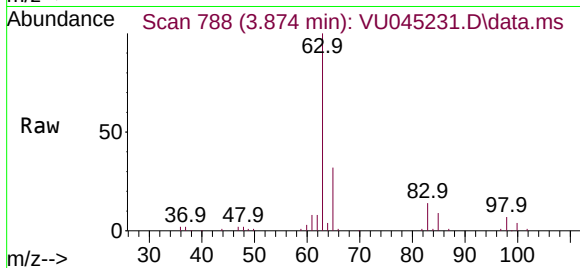
Delta R.T. 0.000 min

Lab File: VU045231.D

Acq: 08 Oct 2021 00:39

Tgt Ion: 63 Resp: 141957

Ion	Ratio	Lower	Upper
63	100		
65	32.3	22.0	40.8
83	13.7	9.0	16.6



#20

cis-1,2-Dichloroethene

Concen: 1.232 ug/L

RT: 4.674 min Scan# 1037

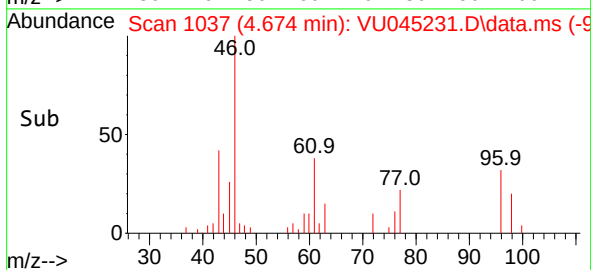
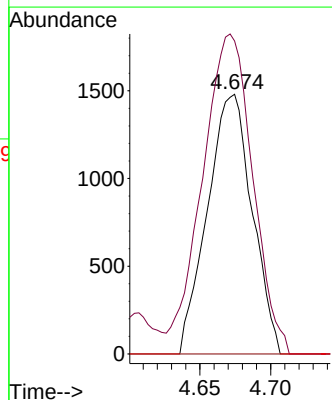
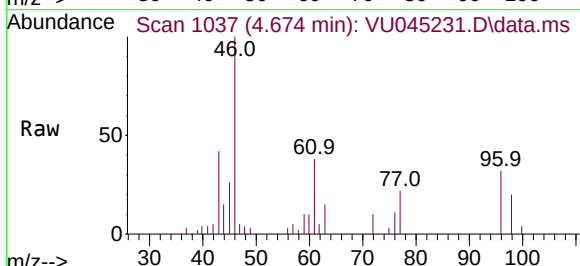
Delta R.T. 0.003 min

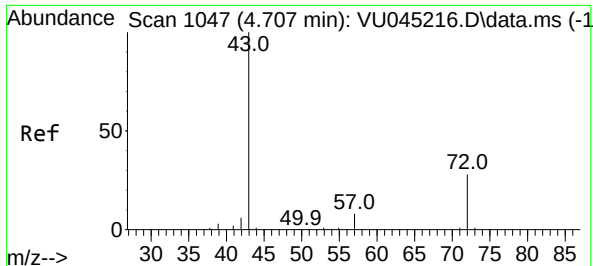
Lab File: VU045231.D

Acq: 08 Oct 2021 00:39

Tgt Ion: 96 Resp: 3251

Ion	Ratio	Lower	Upper
96	100		
61	120.5	100.2	186.0
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 35.638 ug/L

RT: 4.710 min Scan# 1048

Delta R.T. 0.003 min

Lab File: VU045231.D

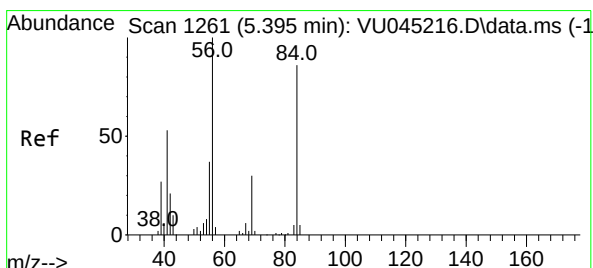
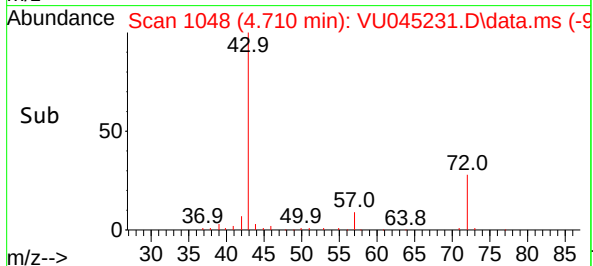
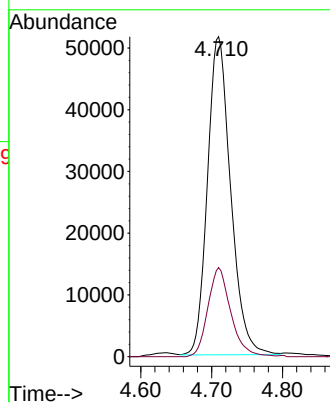
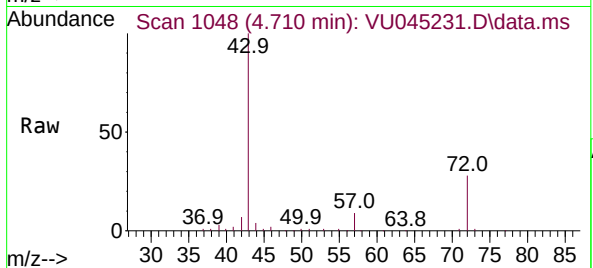
Acq: 08 Oct 2021 00:39

Tgt Ion: 43 Resp: 117100

Ion Ratio Lower Upper

43 100

72 27.6 13.3 39.9



#29

Cyclohexane

Concen: 3.578 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. -0.003 min

Lab File: VU045231.D

Acq: 08 Oct 2021 00:39

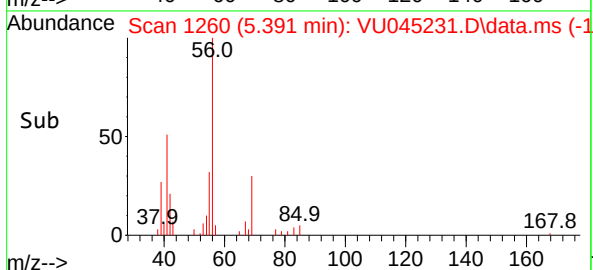
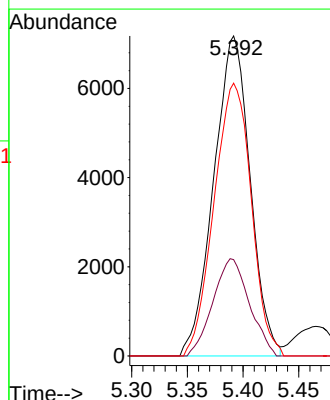
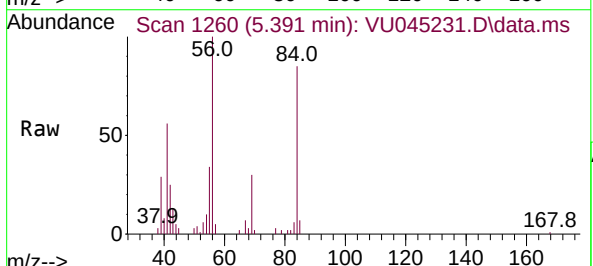
Tgt Ion: 56 Resp: 16348

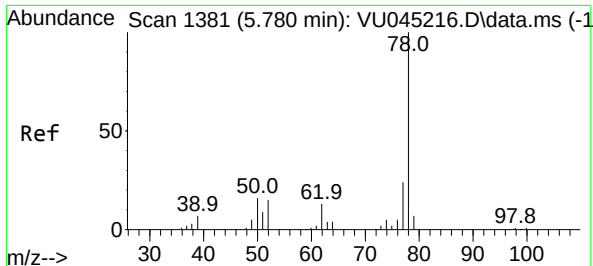
Ion Ratio Lower Upper

56 100

69 30.3 23.8 35.8

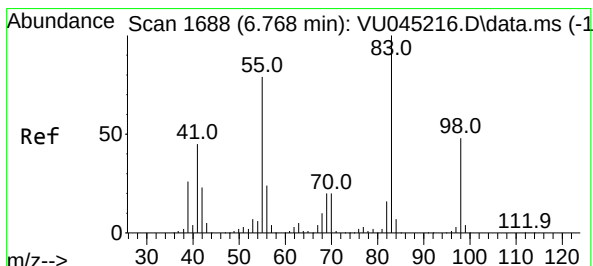
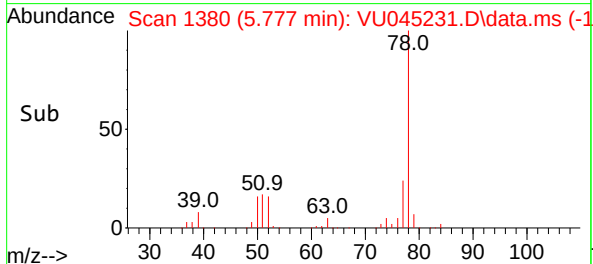
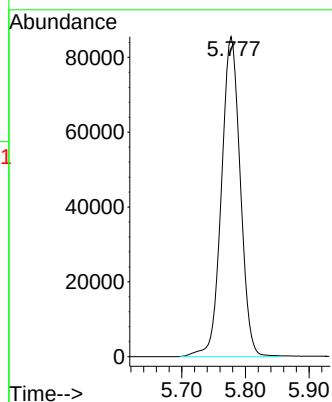
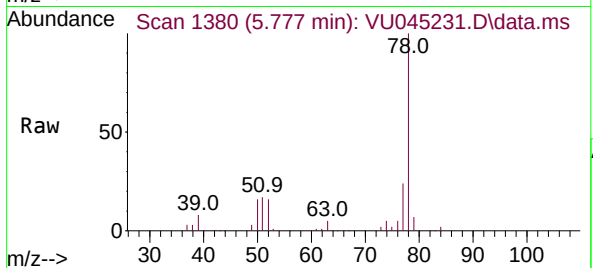
84 87.1 66.8 100.2





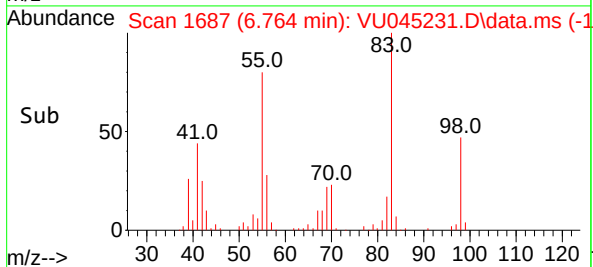
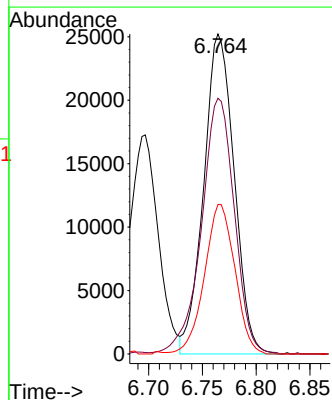
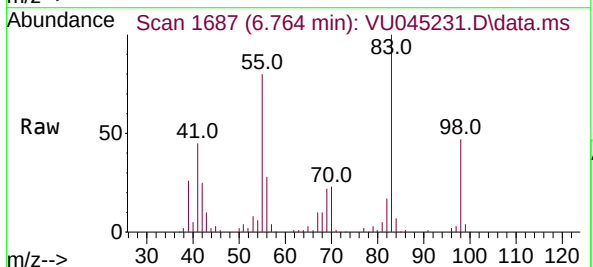
#33
Benzene
Concen: 15.654 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39
Tgt Ion: 78 Resp: 176478

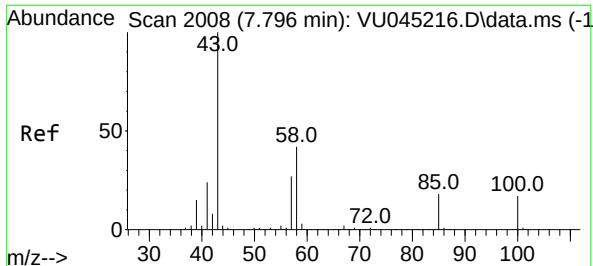
Instrument :
MSVOA_U
ClientSampled :



#35
Methylcyclohexane
Concen: 10.960 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. -0.003 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

Tgt Ion: 83 Resp: 49685
Ion Ratio Lower Upper
83 100
55 86.4 65.8 98.6
98 46.8 37.1 55.7





#40

4-Methyl-2-pentanone

Concen: 16.827 ug/L

RT: 7.797 min Scan# 2008

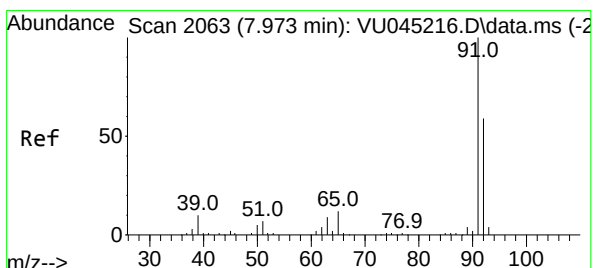
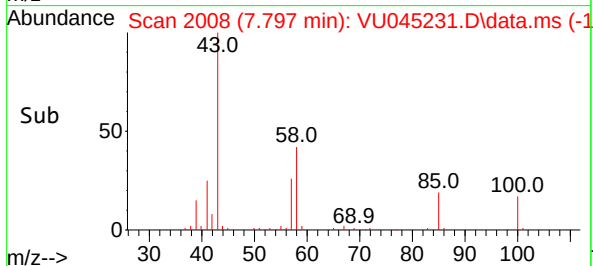
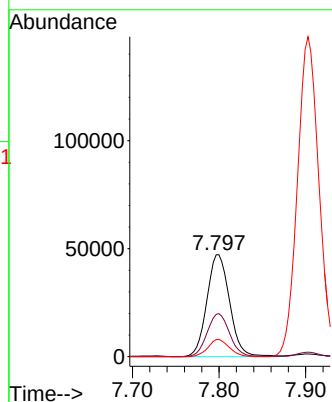
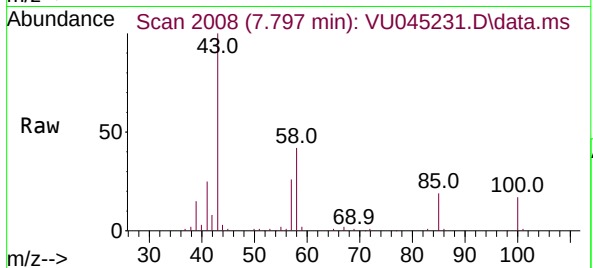
Delta R.T. 0.000 min

Lab File: VU045231.D

Acq: 08 Oct 2021 00:39

Tgt Ion:	43	Resp:	86280
Ion	Ratio	Lower	Upper
43	100		
58	41.8	31.8	47.8
100	15.8	11.8	17.6

Instrument :
MSVOA_U
ClientSampled :



#42

Toluene

Concen: 990.254 ug/L

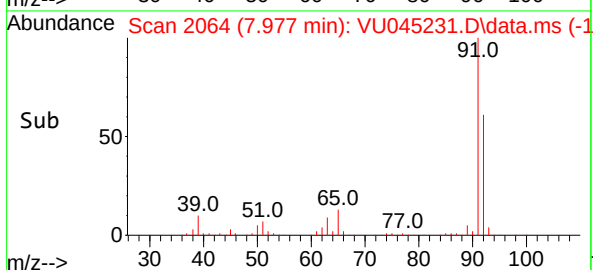
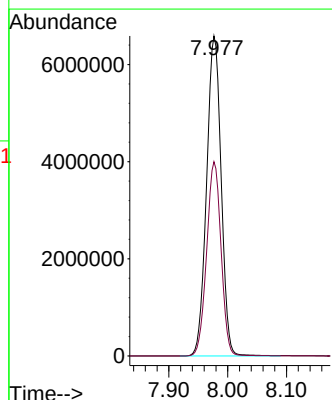
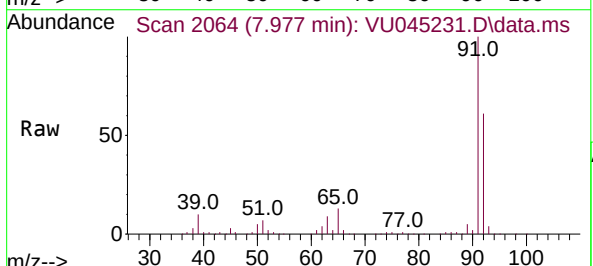
RT: 7.977 min Scan# 2064

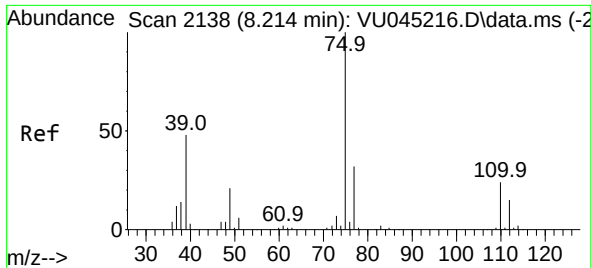
Delta R.T. 0.003 min

Lab File: VU045231.D

Acq: 08 Oct 2021 00:39

Tgt Ion:	91	Resp:	11342866
Ion	Ratio	Lower	Upper
91	100		
92	60.7	40.5	75.1

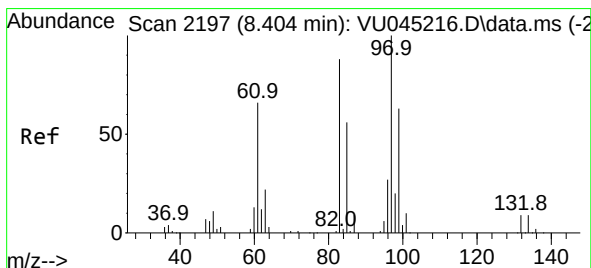
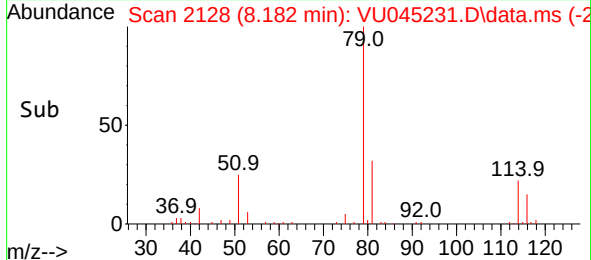
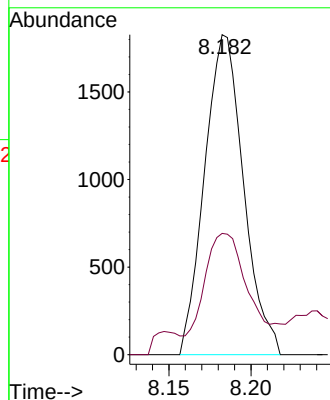
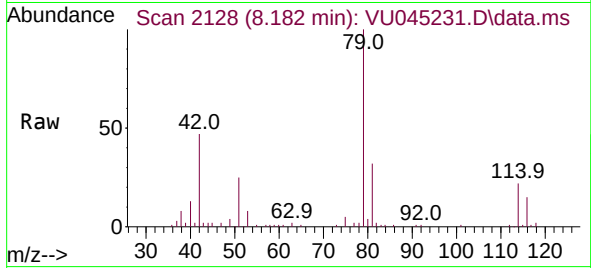




#44
trans-1,3-Dichloropropene
Concen: 0.721 ug/L
RT: 8.182 min Scan# 2128
Delta R.T. -0.032 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

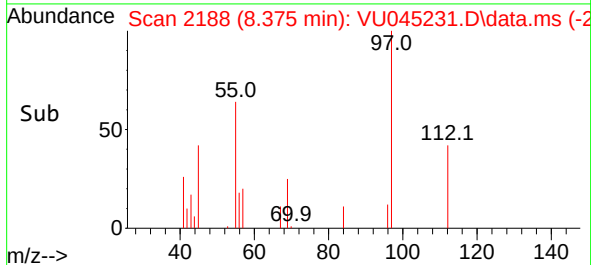
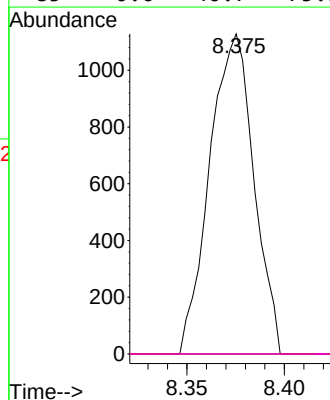
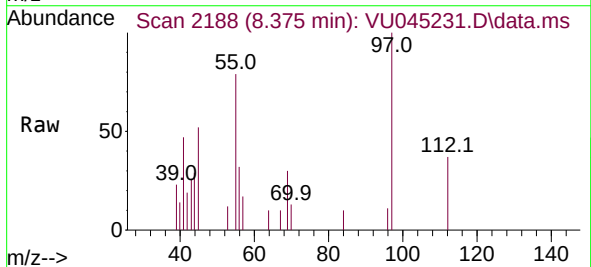
Instrument :
MSVOA_U
ClientSampled :

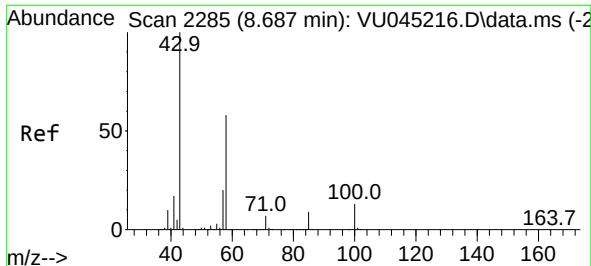
Tgt Ion: 75 Resp: 3013
Ion Ratio Lower Upper
75 100
77 37.9 21.7 40.3



#45
1,1,2-Trichloroethane
Concen: 0.640 ug/L
RT: 8.375 min Scan# 2188
Delta R.T. -0.029 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

Tgt Ion: 97 Resp: 1780
Ion Ratio Lower Upper
97 100
99 0.0 43.7 81.1#
83 0.0 61.9 115.1#
85 0.0 40.7 75.5#

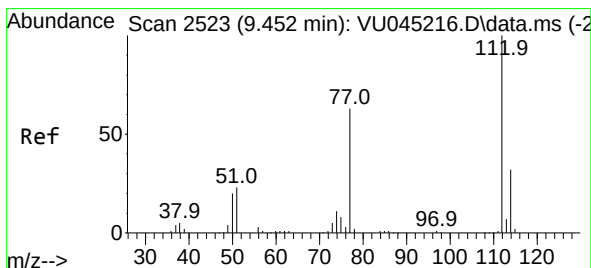
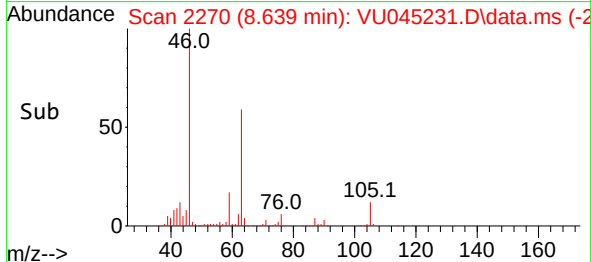
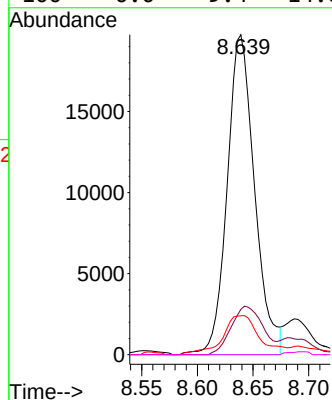
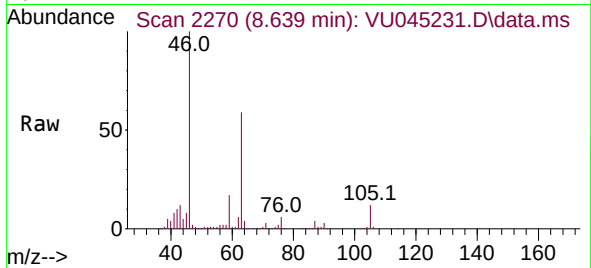




#48
2-Hexanone
Concen: 7.454 ug/L
RT: 8.639 min Scan# 2270
Delta R.T. -0.048 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

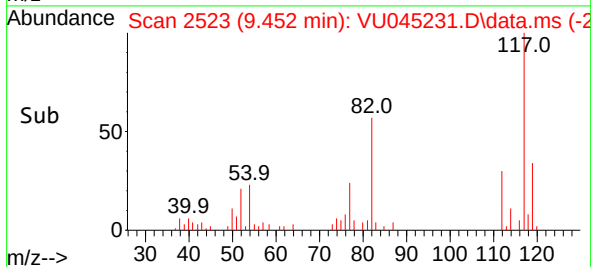
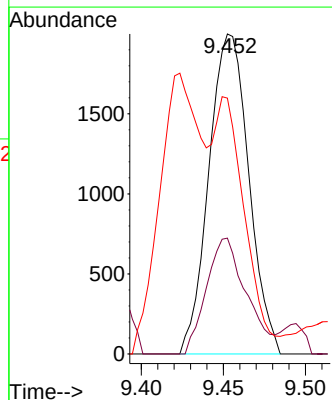
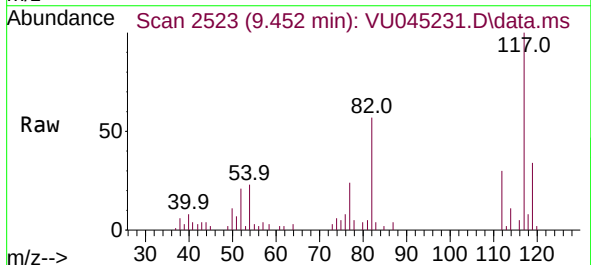
Instrument :
MSVOA_U
ClientSampleId :

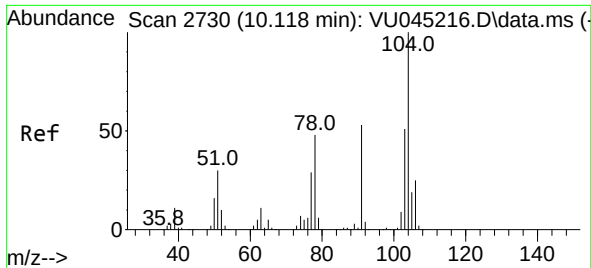
Tgt Ion:	43	Resp:	33894
Ion	Ratio	Lower	Upper
43	100		
58	17.6	44.9	67.3#
57	16.5	15.5	23.3
100	0.0	9.4	14.0#



#51
Chlorobenzene
Concen: 0.478 ug/L
RT: 9.452 min Scan# 2523
Delta R.T. 0.000 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

Tgt Ion:	112	Resp:	3381
Ion	Ratio	Lower	Upper
112	100		
114	36.2	22.5	41.9
77	79.9	50.6	75.8#

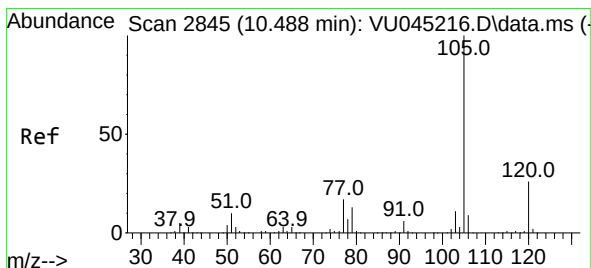
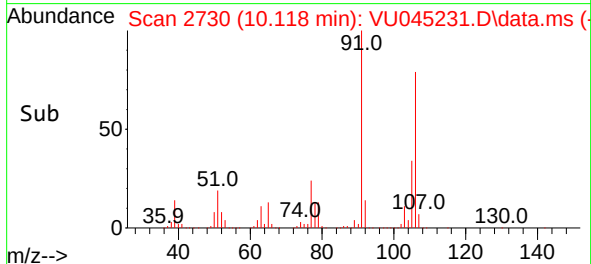
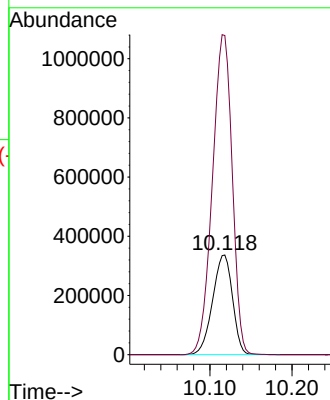
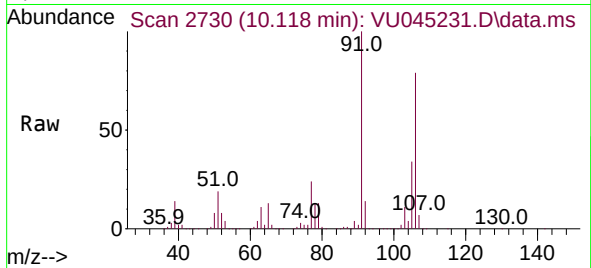




#55
Styrene
Concen: 73.160 ug/L
RT: 10.118 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

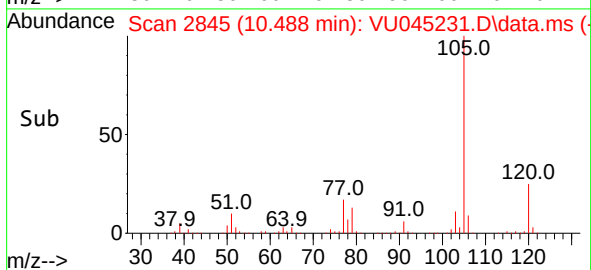
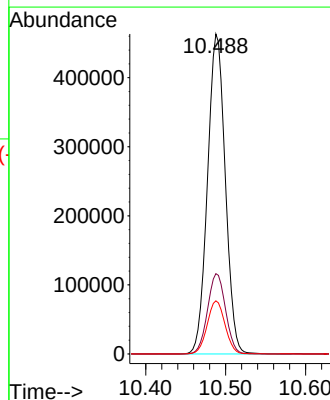
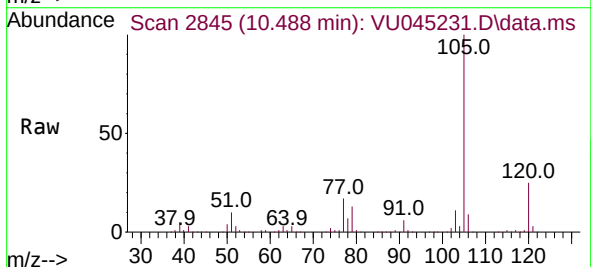
Instrument :
MSVOA_U
ClientSampled :

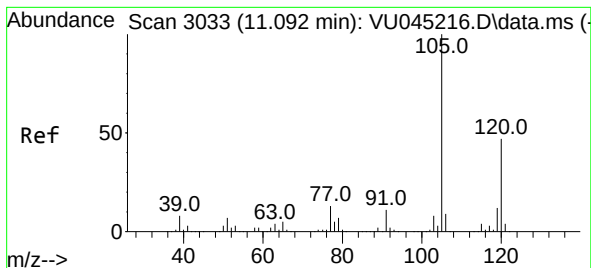
Tgt Ion:104 Resp: 566728
Ion Ratio Lower Upper
104 100
78 320.1 33.3 61.9#



#61
Isopropylbenzene
Concen: 66.345 ug/L
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

Tgt Ion:105 Resp: 716967
Ion Ratio Lower Upper
105 100
120 25.4 20.5 30.7
77 16.7 13.5 20.3

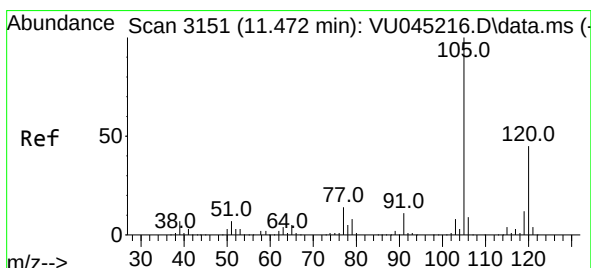
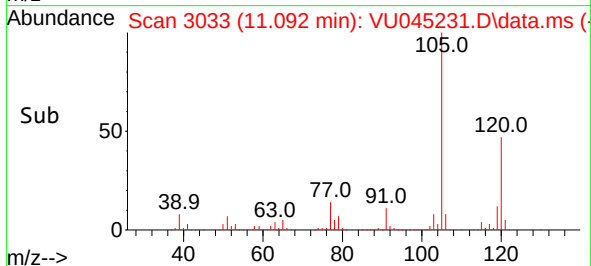
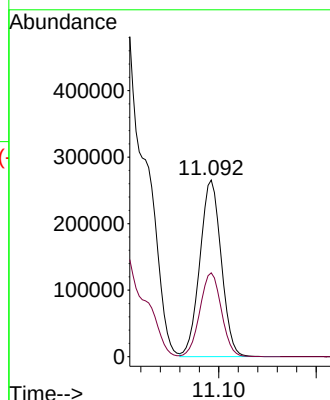
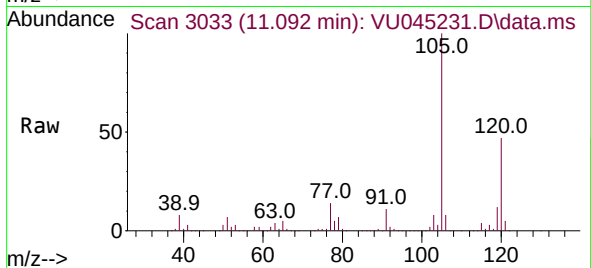




#62
1,3,5-Trimethylbenzene
Concen: 44.779 ug/L
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

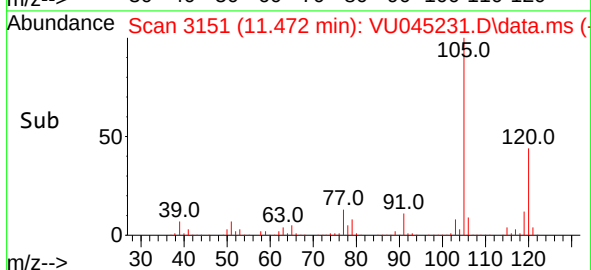
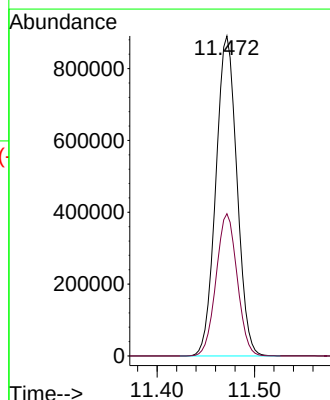
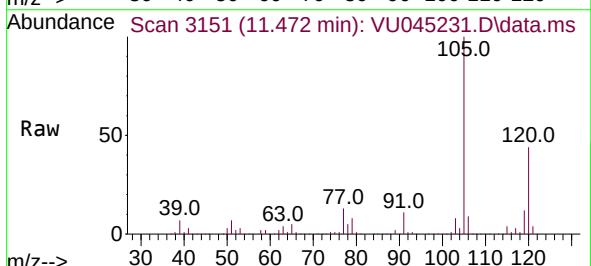
Instrument :
MSVOA_U
ClientSampled :

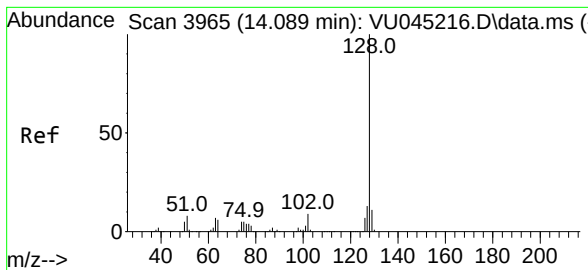
Tgt Ion:105 Resp: 404131
Ion Ratio Lower Upper
105 100
120 47.8 38.8 58.2



#63
1,2,4-Trimethylbenzene
Concen: 144.630 ug/L
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

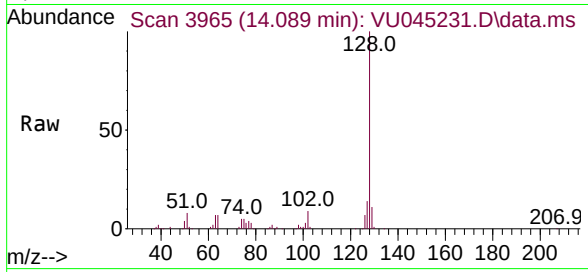
Tgt Ion:105 Resp: 1336630
Ion Ratio Lower Upper
105 100
120 44.5 35.7 53.5





#71
Naphthalene
Concen: 13.068 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. 0.000 min
Lab File: VU045231.D
Acq: 08 Oct 2021 00:39

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:	128	Resp:	130418
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.1	8.8	13.2

