

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051421\
 Data File : VU043731.D
 Acq On : 14 May 2021 04:15
 Operator : SY/MD
 Sample : M2350-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 14 08:02:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM051421WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 14 04:42:41 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	410769	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	394265	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	198099	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	169529	49.84	ug/L	0.00
Spiked Amount	50.000	Range 60 - 135	Recovery	=	99.68%	
7) Chloroethane-d5	1.912	69	126428	51.69	ug/L	0.00
Spiked Amount	50.000	Range 70 - 130	Recovery	=	103.38%	
11) 1,1-Dichloroethene-d2	2.575	63	288241	49.78	ug/L	0.00
Spiked Amount	50.000	Range 60 - 125	Recovery	=	99.56%	
21) 2-Butanone-d5	4.626	46	288205	108.33	ug/L	0.00
Spiked Amount	100.000	Range 40 - 130	Recovery	=	108.33%	
24) Chloroform-d	5.073	84	287243	49.77	ug/L	0.00
Spiked Amount	50.000	Range 70 - 125	Recovery	=	99.54%	
26) 1,2-Dichloroethane-d4	5.710	65	183213	51.21	ug/L	0.00
Spiked Amount	50.000	Range 70 - 125	Recovery	=	102.42%	
32) Benzene-d6	5.735	84	615079	52.64	ug/L	0.00
Spiked Amount	50.000	Range 70 - 125	Recovery	=	105.28%	
36) 1,2-Dichloropropane-d6	6.697	67	202902	53.24	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	106.48%	
41) Toluene-d8	7.906	98	547918	52.11	ug/L	0.00
Spiked Amount	50.000	Range 80 - 120	Recovery	=	104.22%	
43) trans-1,3-Dichloroprop...	8.185	79	84963	50.99	ug/L	0.00
Spiked Amount	50.000	Range 60 - 125	Recovery	=	101.98%	
47) 2-Hexanone-d5	8.639	63	187732	102.87	ug/L	0.00
Spiked Amount	100.000	Range 45 - 130	Recovery	=	102.87%	
56) 1,1,2,2-Tetrachloroeth...	10.761	84	290845	50.43	ug/L	0.00
Spiked Amount	50.000	Range 65 - 120	Recovery	=	100.86%	
66) 1,2-Dichlorobenzene-d4	12.198	152	209725	53.64	ug/L	0.00
Spiked Amount	50.000	Range 80 - 120	Recovery	=	107.28%	
Target Compounds						
5) Vinyl chloride	1.607	62	27719	6.82	ug/L	90
8) Chloroethane	1.935	64	22373	9.72	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	2471	0.82	ug/L #	20
12) 1,1-Dichloroethene	2.584	96	133391	44.98	ug/L	89
17) trans-1,2-Dichloroethene	3.359	96	3103	1.01	ug/L	86
19) 1,1-Dichloroethane	3.877	63	2672384	445.61	ug/L	99
20) cis-1,2-Dichloroethene	4.674	96	40093	11.86	ug/L	97
22) 2-Butanone	4.719	43	9984	3.27	ug/L	96
25) Chloroform	5.324	83	10808	1.84	ug/L	99
27) 1,2-Dichloroethane	5.735	62	3863	0.85	ug/L	97
30) 1,1,1-Trichloroethane	5.327	97	7591206	1597.27	ug/L	99
33) Benzene	5.784	78	30732	2.31	ug/L	100
34) Trichloroethene	6.549	95	2443	0.75	ug/L	95
39) cis-1,3-Dichloropropene	7.571	75	5173	1.04	ug/L #	60
42) Toluene	7.976	91	19064	1.37	ug/L	99
44) trans-1,3-Dichloropropene	8.185	75	3535	0.76	ug/L #	71
45) 1,1,2-Trichloroethane	8.404	97	2452	0.73	ug/L	94
46) Tetrachloroethene	8.562	164	1066	0.42	ug/L	91
51) Chlorobenzene	9.452	112	45229	5.24	ug/L	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051421\
Data File : VU043731.D
Acq On : 14 May 2021 04:15
Operator : SY/MD
Sample : M2350-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 43 Sample Multiplier: 1

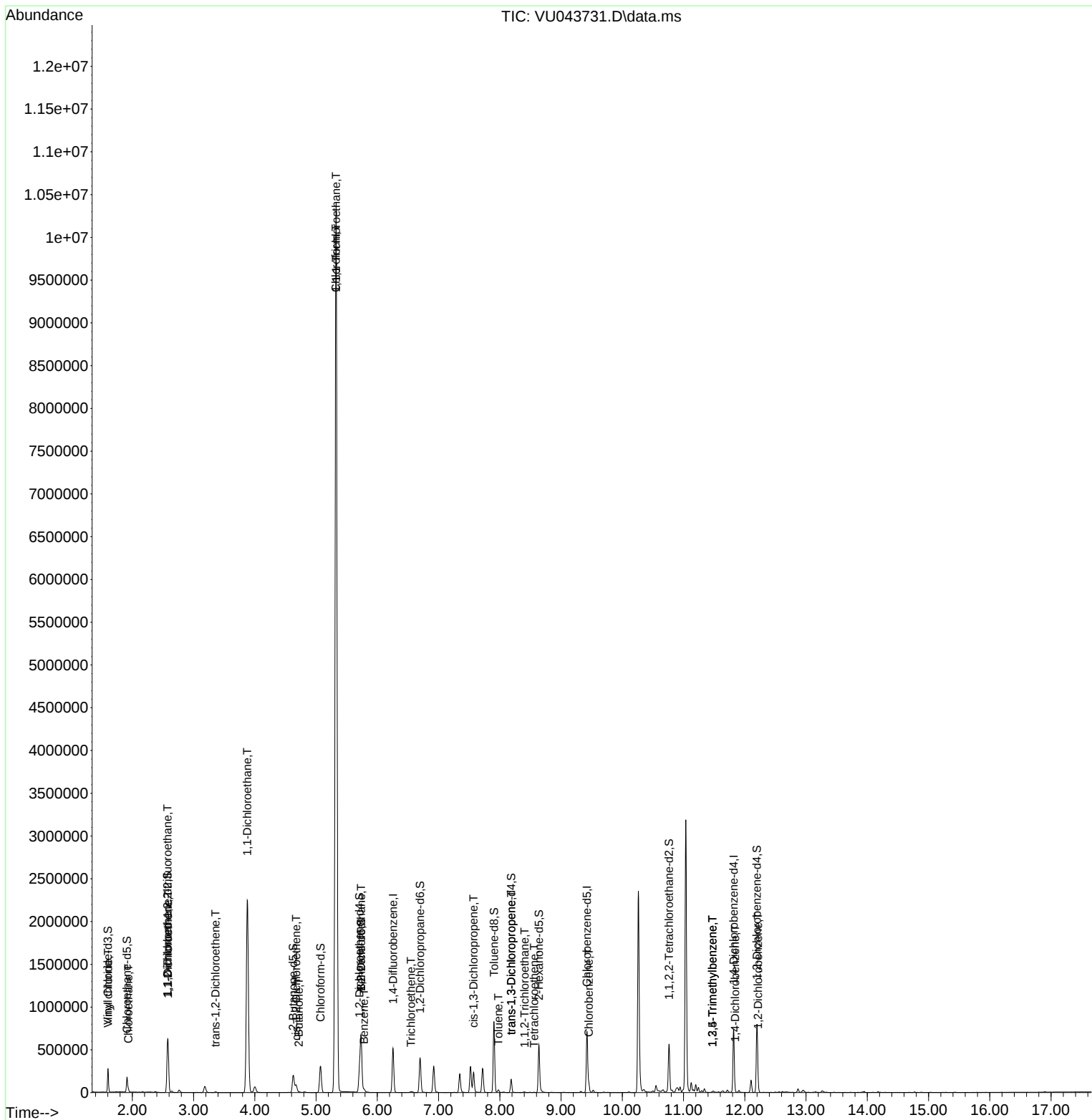
Instrument :
MSVOA_U
ClientSampleId :

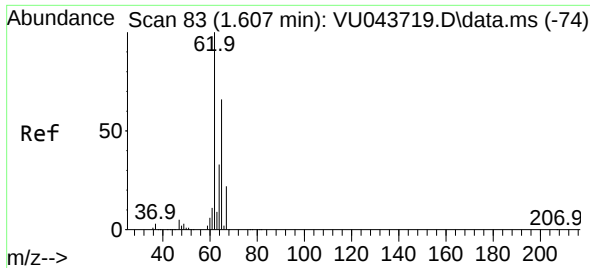
Quant Time: May 14 08:02:39 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM051421WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 14 04:42:41 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	11.475	105	5135	0.48	ug/L	90
63) 1,2,4-Trimethylbenzene	11.475	105	5135	0.48	ug/L	94
65) 1,4-Dichlorobenzene	11.841	146	3068	0.48	ug/L	93
67) 1,2-Dichlorobenzene	12.217	146	16444	2.51	ug/L	93

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

Quant Time: May 14 08:02:39 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM051421WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 14 04:42:41 2021
Response via : Initial Calibration

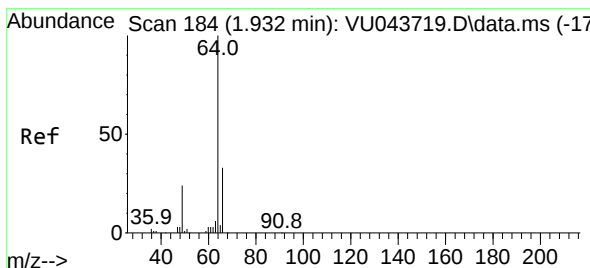
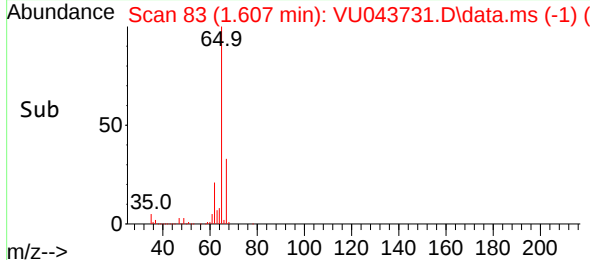
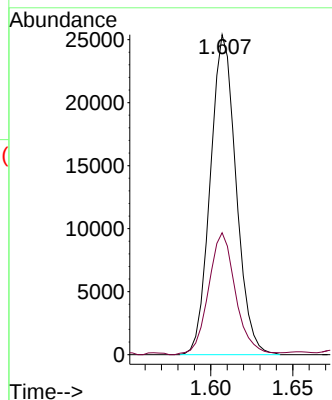
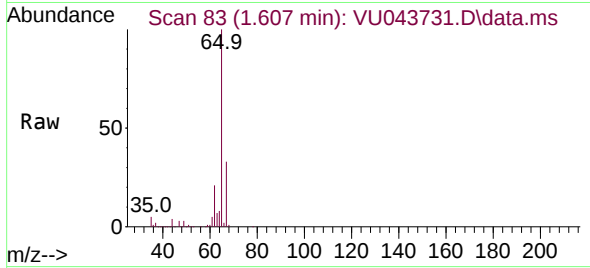




#5
 Vinyl chloride
 Concen: 6.82 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU043731.D
 Acq: 14 May 2021 04:15

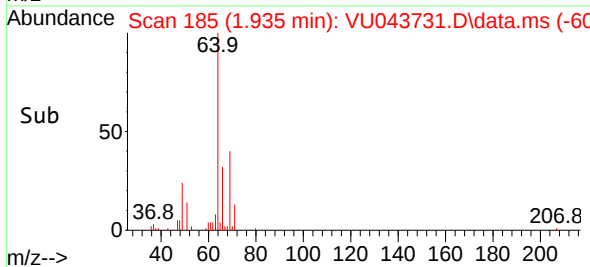
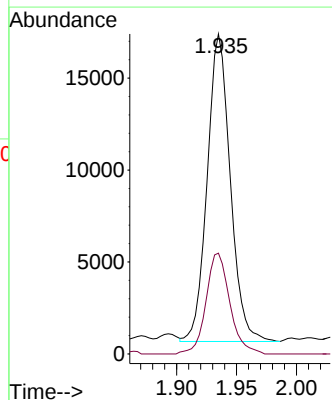
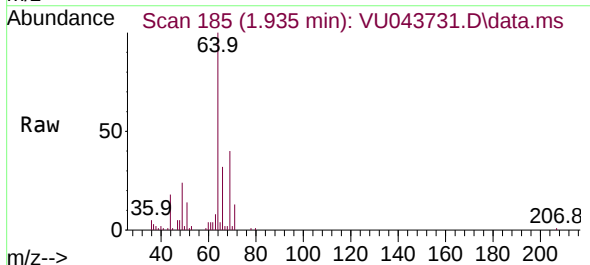
Instrument :
 MSVOA_U
 ClientSampled :

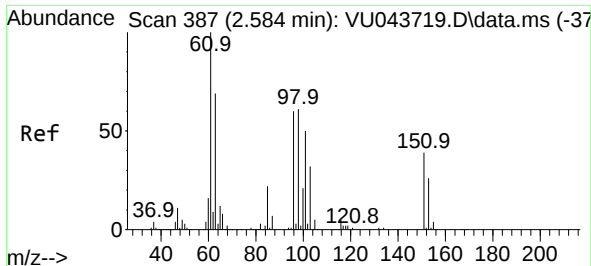
Tgt Ion: 62 Resp: 27719
 Ion Ratio Lower Upper
 62 100
 64 38.1 22.9 42.5



#8
 Chloroethane
 Concen: 9.72 ug/L
 RT: 1.935 min Scan# 185
 Delta R.T. 0.003 min
 Lab File: VU043731.D
 Acq: 14 May 2021 04:15

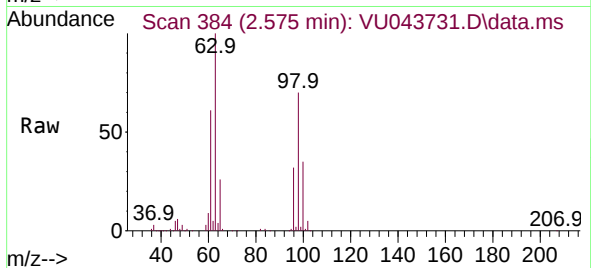
Tgt Ion: 64 Resp: 22373
 Ion Ratio Lower Upper
 64 100
 66 31.5 23.2 43.2



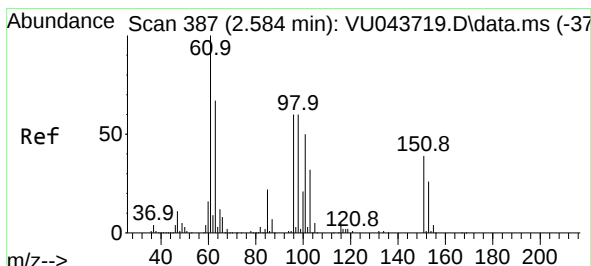
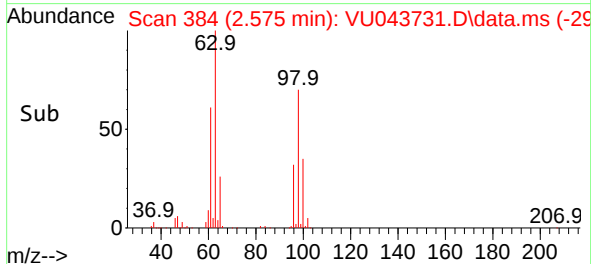
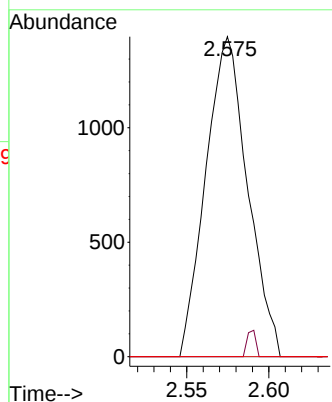


#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.82 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.010 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Instrument :
MSVOA_U
ClientSampled :

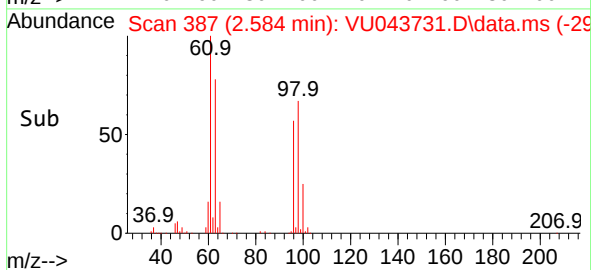
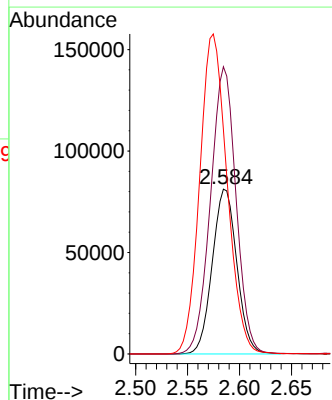
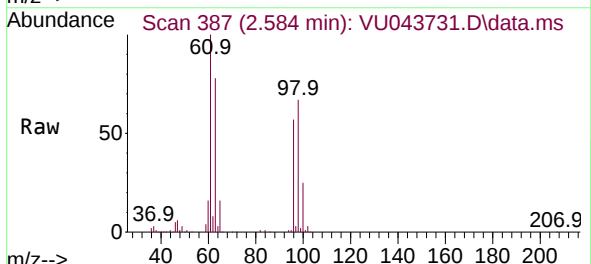


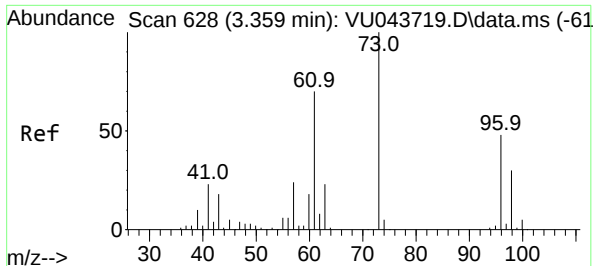
Tgt Ion:101 Resp: 2471
Ion Ratio Lower Upper
101 100
85 1.7 34.2 51.4#
151 0.0 60.4 90.6#



#12
1,1-Dichloroethene
Concen: 44.98 ug/L
RT: 2.584 min Scan# 387
Delta R.T. 0.000 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Tgt Ion: 96 Resp: 133391
Ion Ratio Lower Upper
96 100
61 174.3 116.3 215.9
63 136.2 80.8 150.2

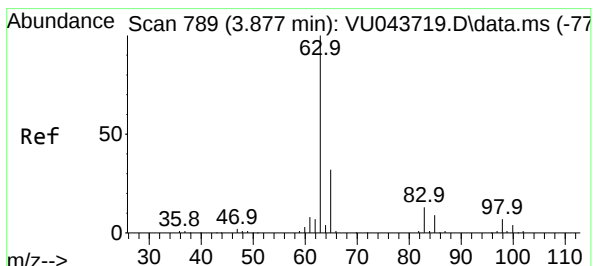
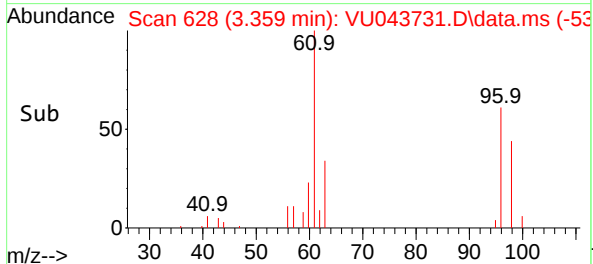
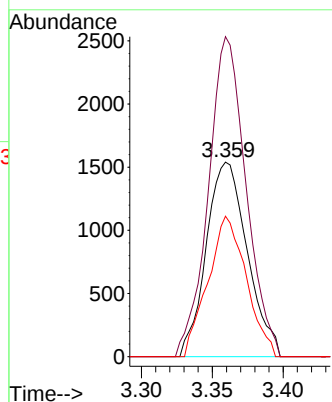
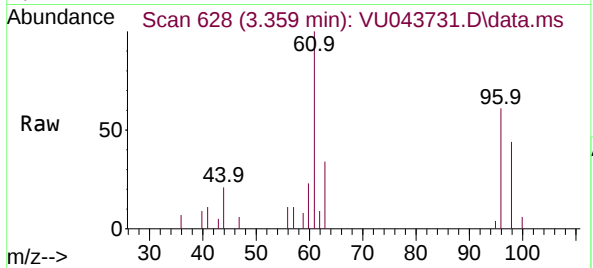




#17
trans-1,2-Dichloroethene
Concen: 1.01 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.000 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

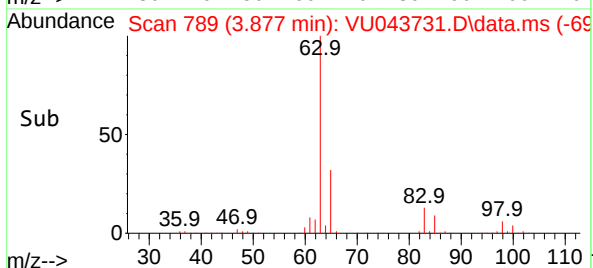
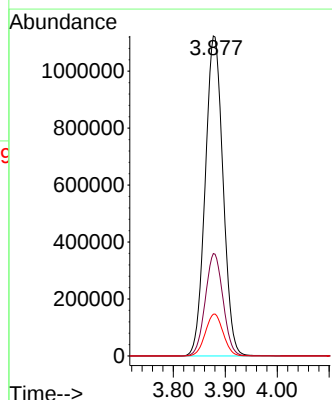
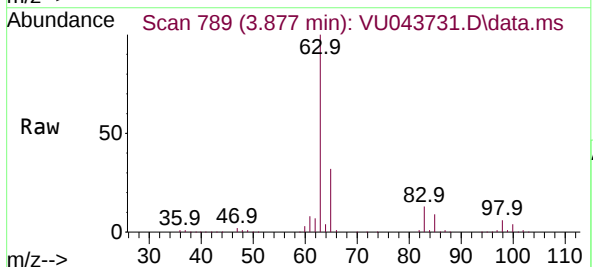
Instrument :
MSVOA_U
ClientSampleId :

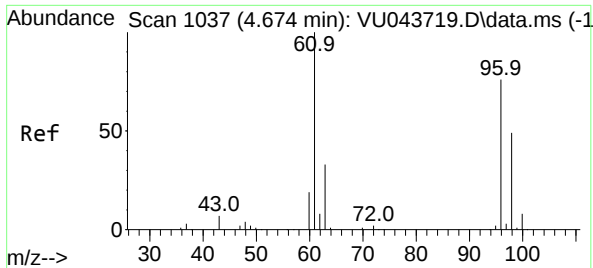
Tgt Ion:	96	Resp:	3103
Ion	Ratio	Lower	Upper
96	100		
61	164.5	101.5	188.5
98	72.2	44.9	83.5



#19
1,1-Dichloroethane
Concen: 445.61 ug/L
RT: 3.877 min Scan# 789
Delta R.T. 0.000 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Tgt Ion:	63	Resp:	2672384
Ion	Ratio	Lower	Upper
63	100		
65	32.0	22.0	41.0
83	13.0	8.7	16.1

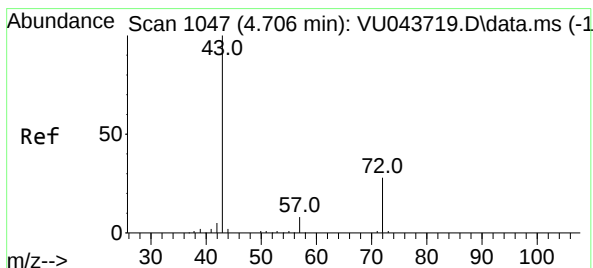
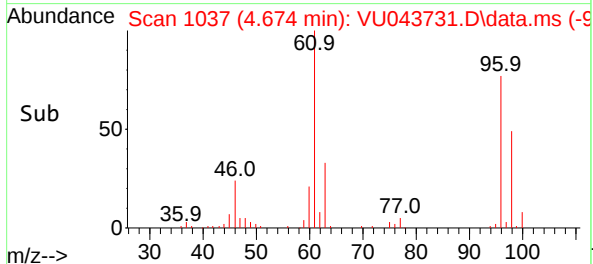
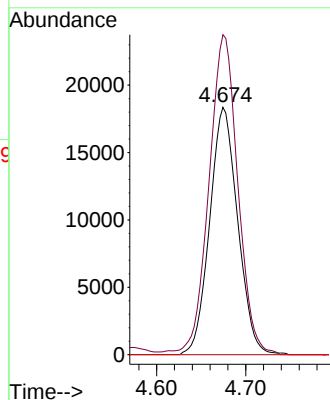
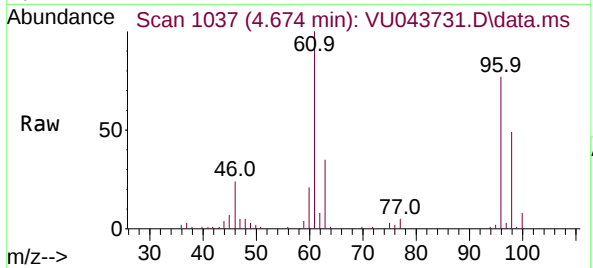




#20
cis-1,2-Dichloroethene
Concen: 11.86 ug/L
RT: 4.674 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

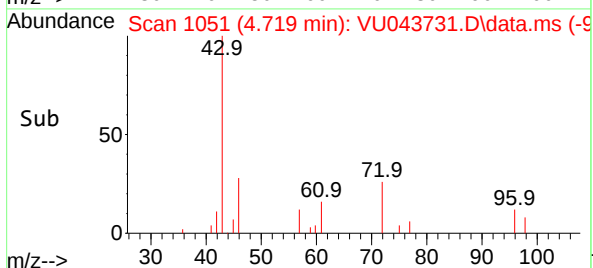
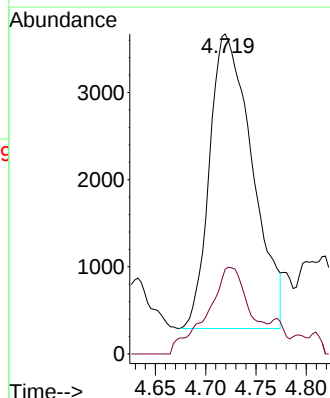
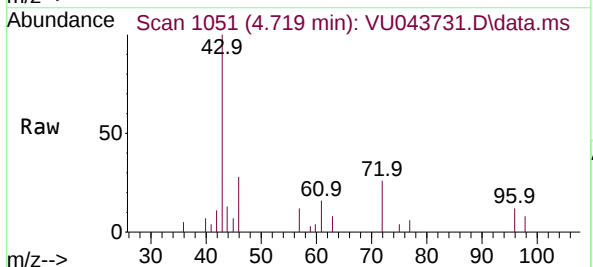
Instrument :
MSVOA_U
ClientSampled :

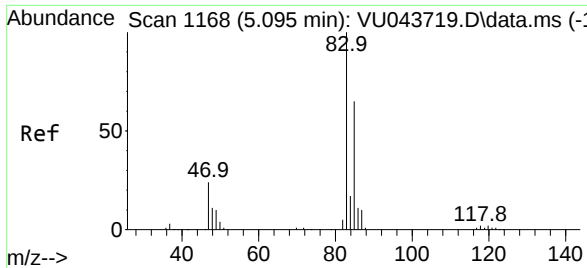
Tgt Ion: 96 Resp: 40093
Ion Ratio Lower Upper
96 100
61 129.3 93.1 172.9
68 0.0 0.0 0.0



#22
2-Butanone
Concen: 3.27 ug/L
RT: 4.719 min Scan# 1051
Delta R.T. 0.013 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Tgt Ion: 43 Resp: 9984
Ion Ratio Lower Upper
43 100
72 29.6 13.9 41.6

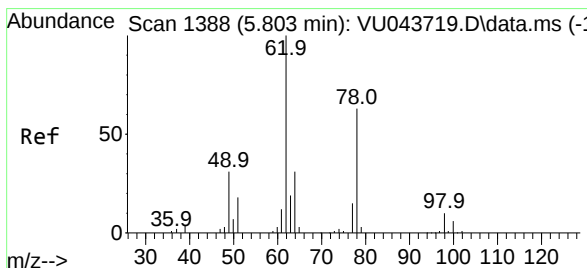
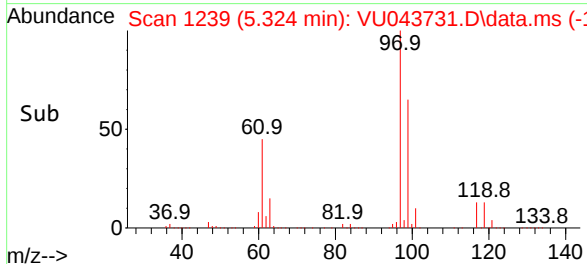
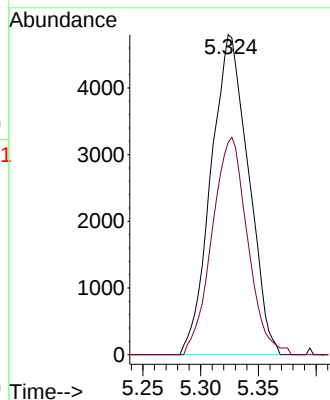
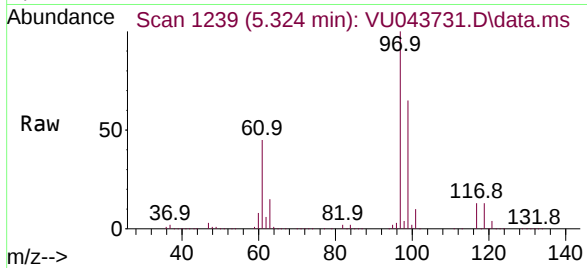




#25
Chloroform
Concen: 1.84 ug/L
RT: 5.324 min Scan# 1239
Delta R.T. 0.228 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

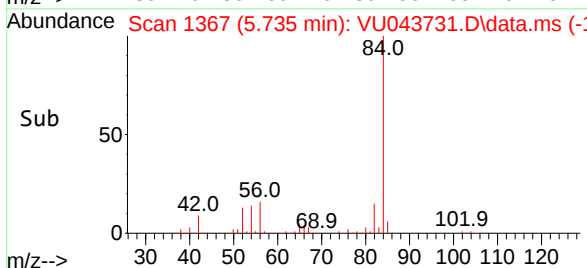
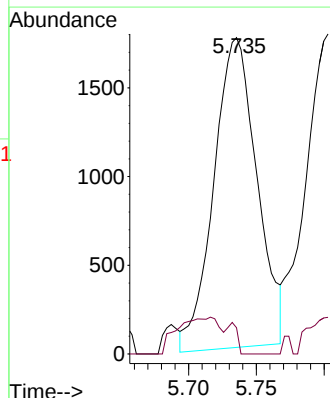
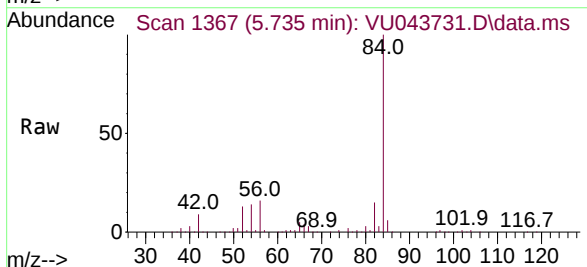
Instrument :
MSVOA_U
ClientSampled :

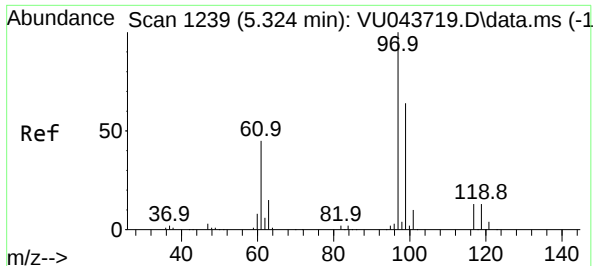
Tgt Ion: 83 Resp: 10808
Ion Ratio Lower Upper
83 100
85 66.4 45.7 84.9



#27
1,2-Dichloroethane
Concen: 0.85 ug/L
RT: 5.735 min Scan# 1367
Delta R.T. -0.067 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Tgt Ion: 62 Resp: 3863
Ion Ratio Lower Upper
62 100
98 8.3 7.6 11.4





#30

1,1,1-Trichloroethane

Concen: 1597.27 ug/L

RT: 5.327 min Scan# 1240

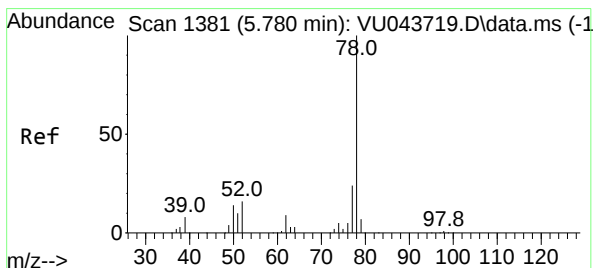
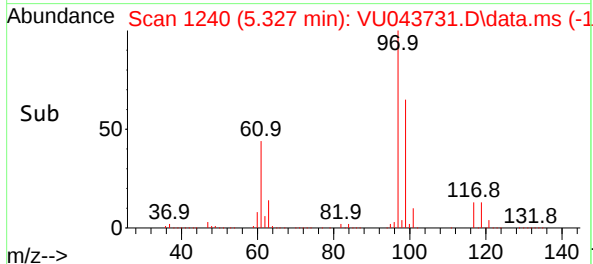
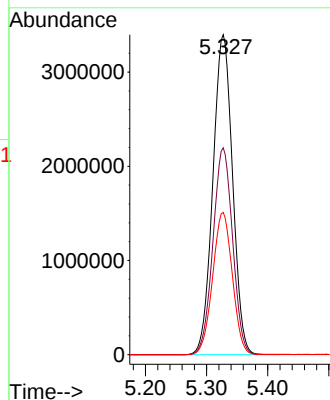
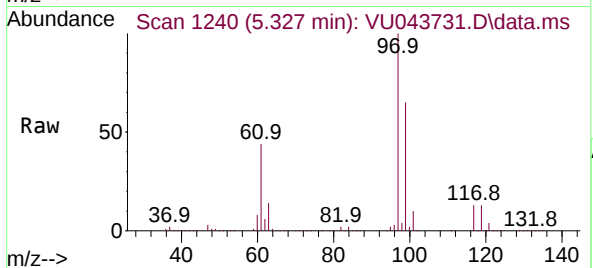
Delta R.T. 0.003 min

Lab File: VU043731.D

Acq: 14 May 2021 04:15

Tgt Ion: 97 Resp: 7591206

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.7	77.5
61	44.5	36.9	55.3



#33

Benzene

Concen: 2.31 ug/L

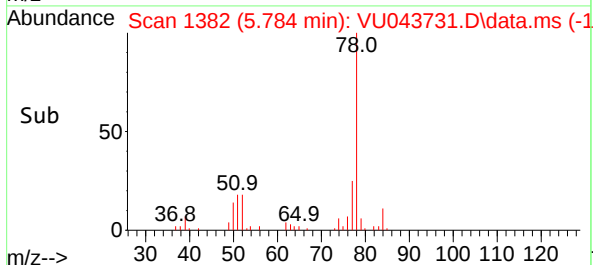
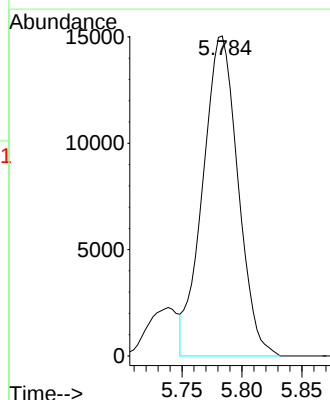
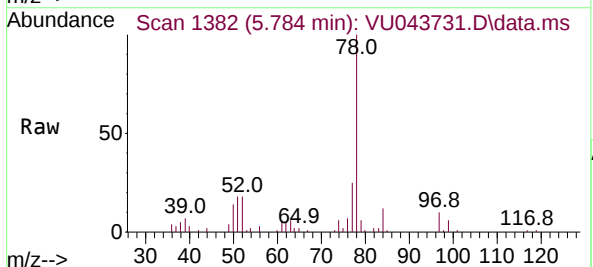
RT: 5.784 min Scan# 1382

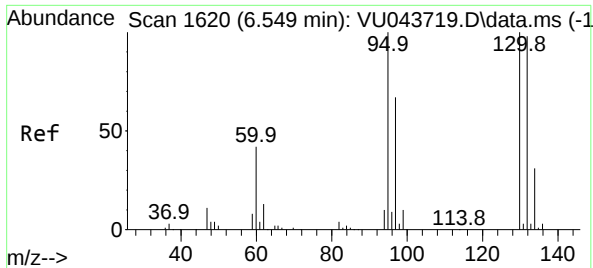
Delta R.T. 0.003 min

Lab File: VU043731.D

Acq: 14 May 2021 04:15

Tgt Ion: 78 Resp: 30732



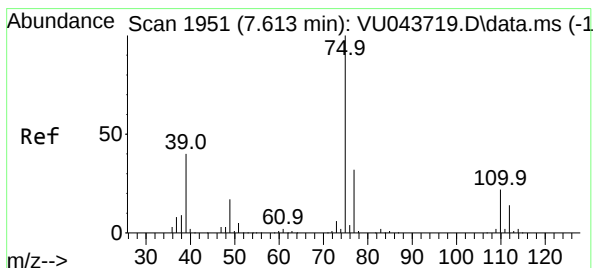
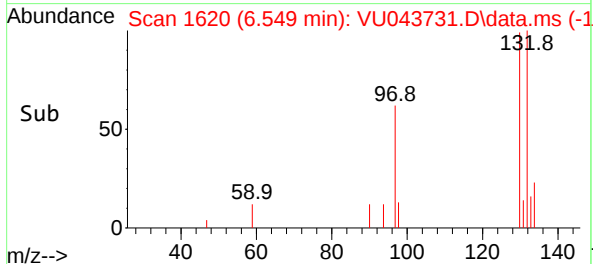
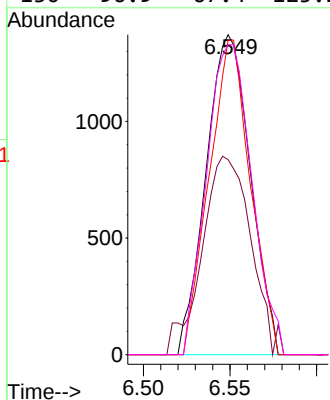
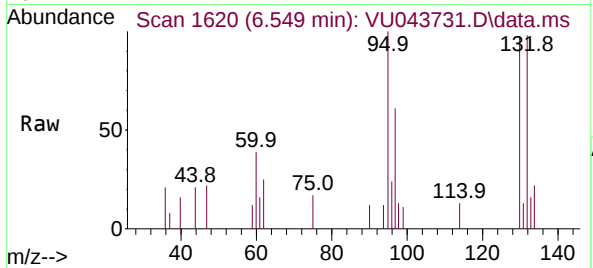


#34
Trichloroethene
Concen: 0.75 ug/L
RT: 6.549 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 95 Resp: 2443

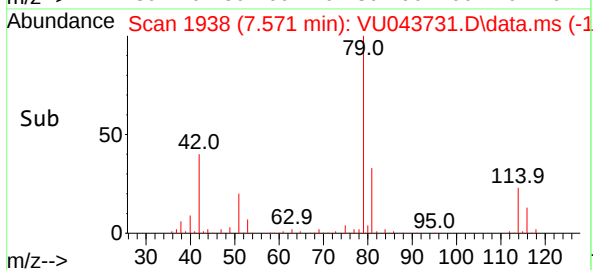
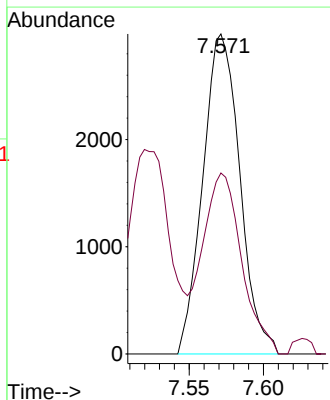
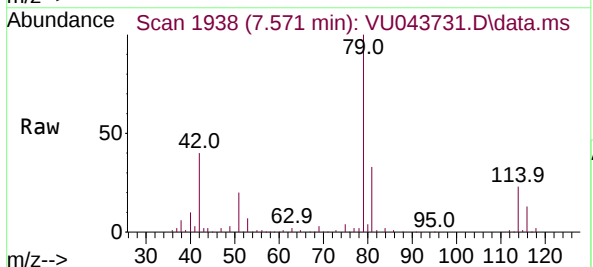
Ion	Ratio	Lower	Upper
95	100		
97	74.1	44.2	82.2
132	98.3	66.8	124.2
130	96.9	67.4	125.2

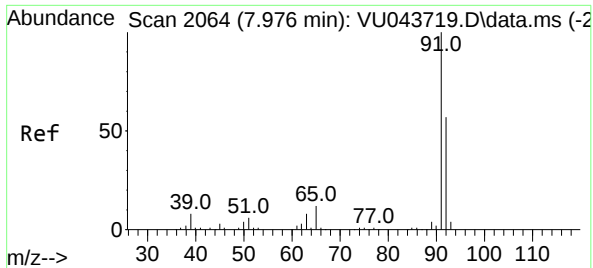


#39
cis-1,3-Dichloropropene
Concen: 1.04 ug/L
RT: 7.571 min Scan# 1938
Delta R.T. -0.042 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Tgt Ion: 75 Resp: 5173

Ion	Ratio	Lower	Upper
75	100		
77	53.7	22.0	41.0#

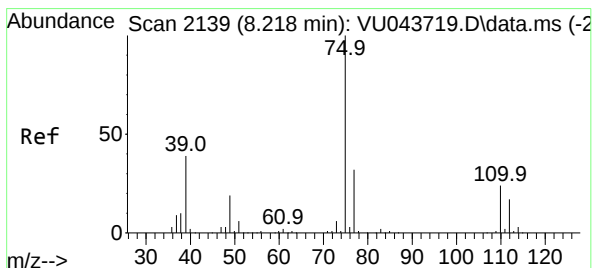
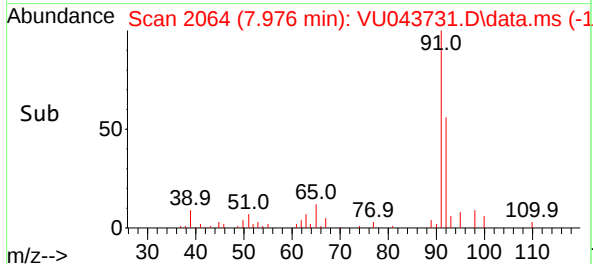
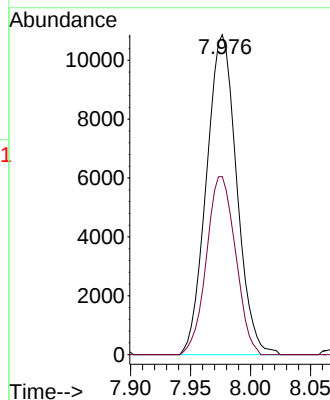
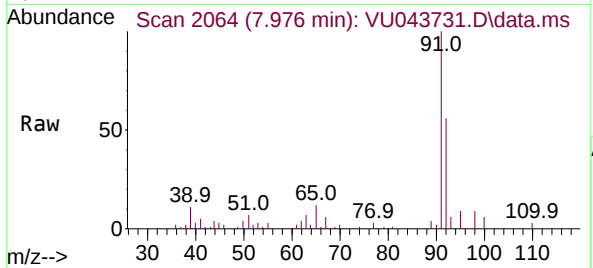




#42
Toluene
Concen: 1.37 ug/L
RT: 7.976 min Scan# 2064
Delta R.T. 0.000 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

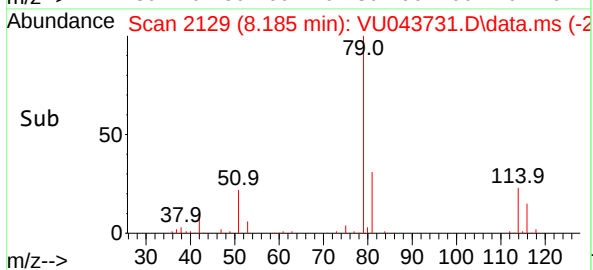
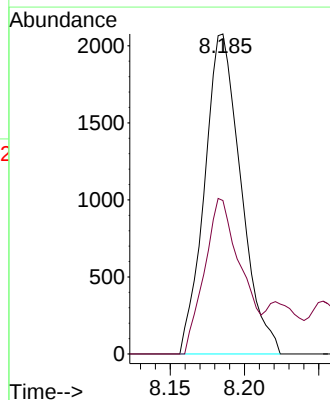
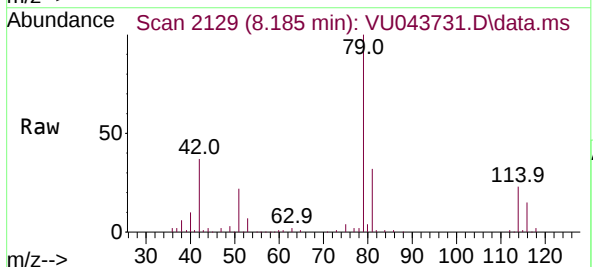
Instrument :
MSVOA_U
ClientSampled :

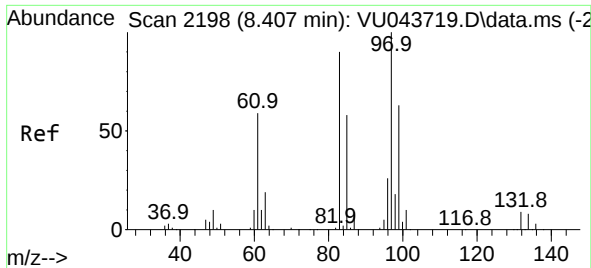
Tgt Ion: 91 Resp: 19064
Ion Ratio Lower Upper
91 100
92 55.7 39.7 73.7



#44
trans-1,3-Dichloropropene
Concen: 0.76 ug/L
RT: 8.185 min Scan# 2129
Delta R.T. -0.032 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Tgt Ion: 75 Resp: 3535
Ion Ratio Lower Upper
75 100
77 48.0 22.4 41.6#

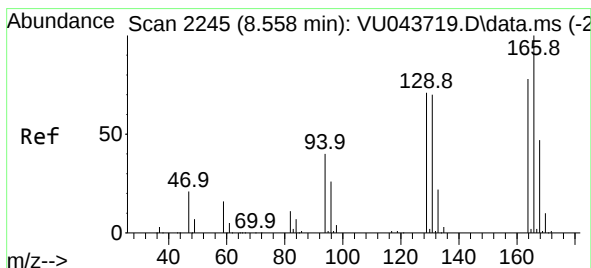
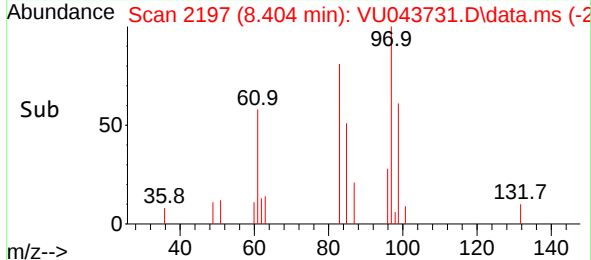
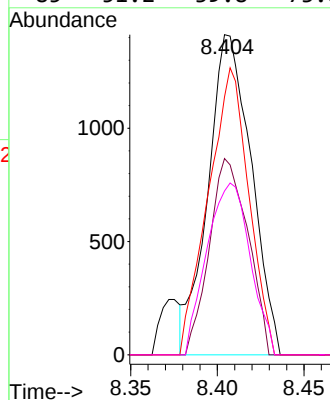
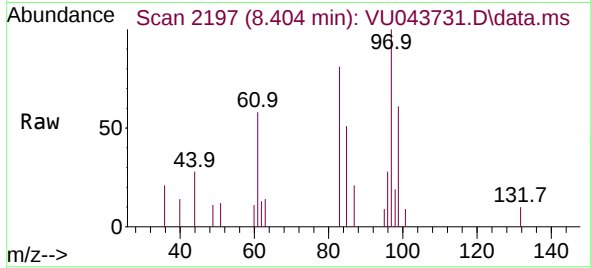




#45
1,1,2-Trichloroethane
Concen: 0.73 ug/L
RT: 8.404 min Scan# 2197
Delta R.T. -0.003 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

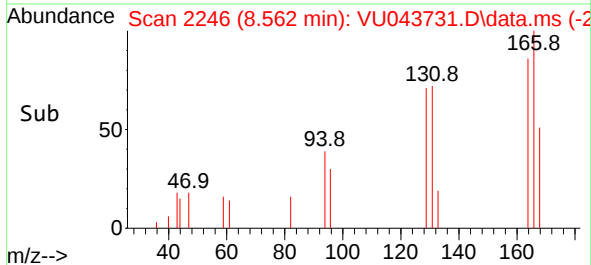
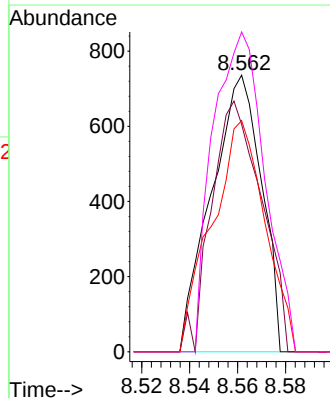
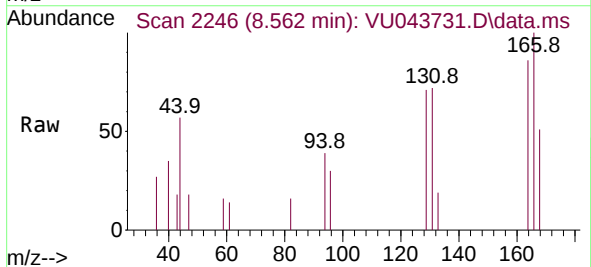
Instrument :
MSVOA_U
ClientSampleId :

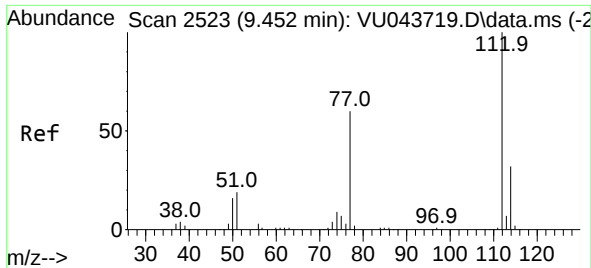
Tgt Ion:	97	Resp:	2452
Ion	Ratio	Lower	Upper
97	100		
99	61.3	43.2	80.2
83	80.5	61.7	114.5
85	51.2	39.8	73.8



#46
Tetrachloroethene
Concen: 0.42 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. 0.003 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Tgt Ion:	164	Resp:	1066
Ion	Ratio	Lower	Upper
164	100		
129	82.2	65.5	121.6
131	83.6	63.0	117.0
166	115.6	88.6	164.6

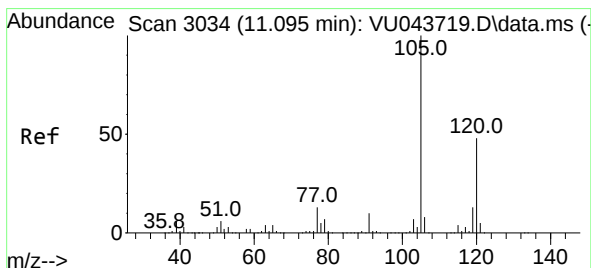
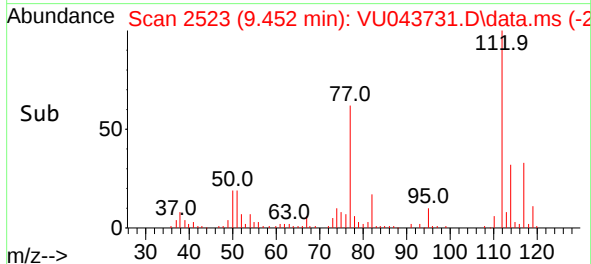
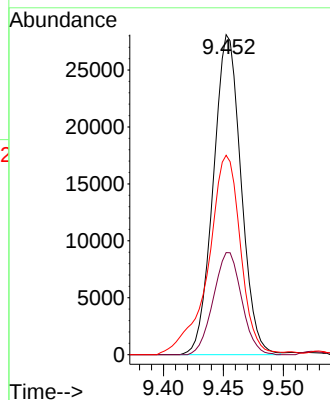
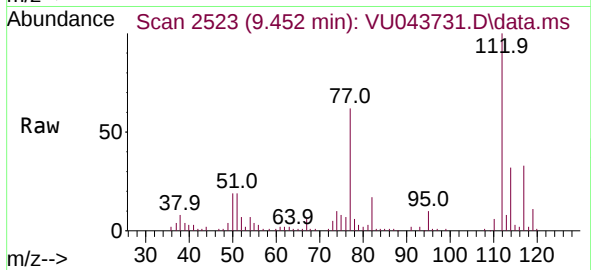




#51
Chlorobenzene
Concen: 5.24 ug/L
RT: 9.452 min Scan# 2523
Delta R.T. 0.000 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

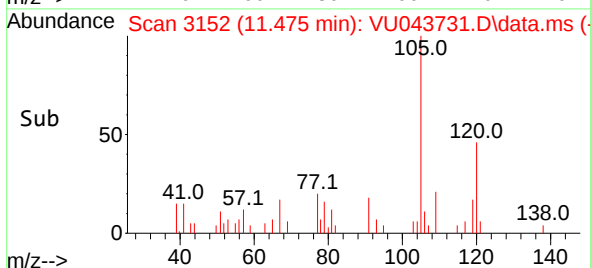
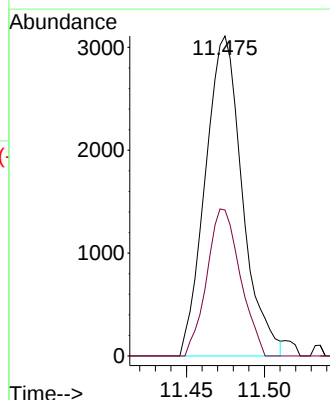
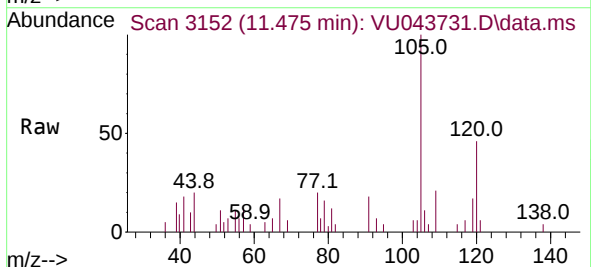
Instrument :
MSVOA_U
ClientSampleId :

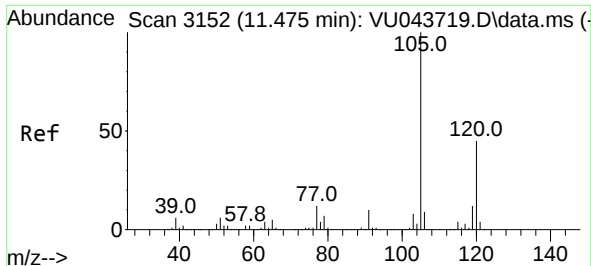
Tgt Ion:112 Resp: 45229
Ion Ratio Lower Upper
112 100
114 31.9 22.7 42.1
77 62.3 48.5 72.7



#62
1,3,5-Trimethylbenzene
Concen: 0.48 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.379 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Tgt Ion:105 Resp: 5135
Ion Ratio Lower Upper
105 100
120 41.4 38.7 58.1

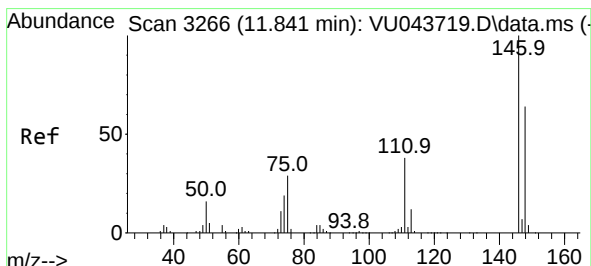
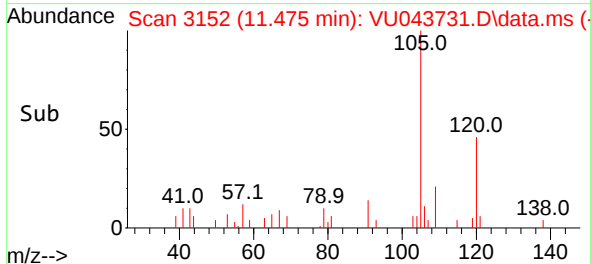
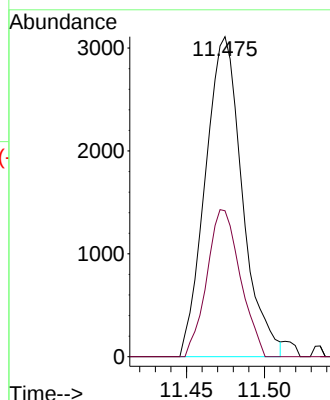
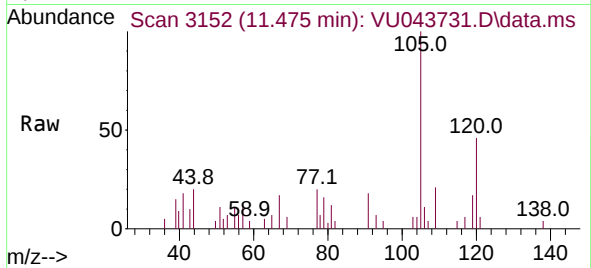




#63
1,2,4-Trimethylbenzene
Concen: 0.48 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

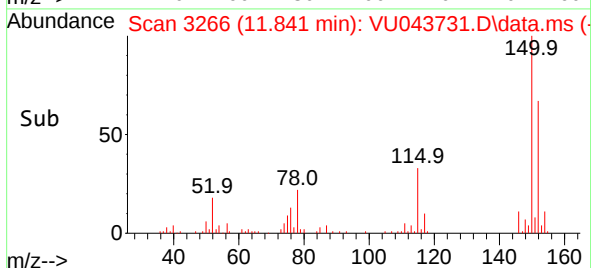
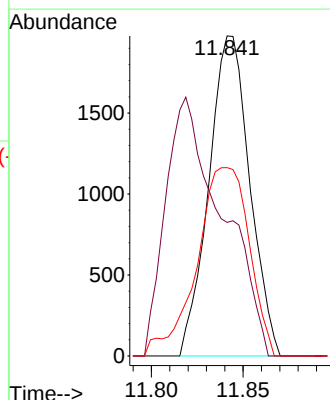
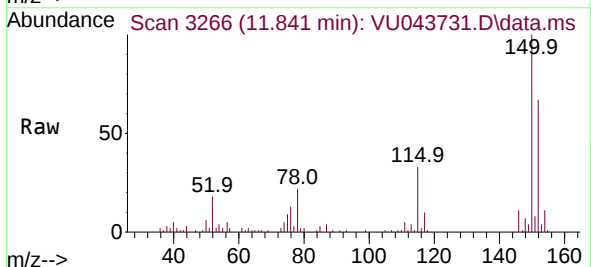
Instrument :
MSVOA_U
ClientSampled :

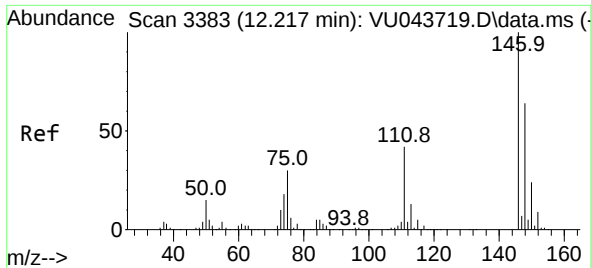
Tgt Ion:105 Resp: 5135
Ion Ratio Lower Upper
105 100
120 41.4 36.2 54.2



#65
1,4-Dichlorobenzene
Concen: 0.48 ug/L
RT: 11.841 min Scan# 3266
Delta R.T. 0.000 min
Lab File: VU043731.D
Acq: 14 May 2021 04:15

Tgt Ion:146 Resp: 3068
Ion Ratio Lower Upper
146 100
111 41.8 27.1 50.3
148 58.9 45.4 84.4





#67
 1,2-Dichlorobenzene
 Concen: 2.51 ug/L
 RT: 12.217 min Scan# 3383
 Delta R.T. 0.000 min
 Lab File: VU043731.D
 Acq: 14 May 2021 04:15

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion:	146	Resp:	16444
Ion Ratio	Lower	Upper	
146	100		
111	49.1	33.5	50.3
148	61.5	51.7	77.5

