

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051421\
 Data File : VU043730.D
 Acq On : 14 May 2021 03:52
 Operator : SY/MD
 Sample : M2350-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 14 08:02:25 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	386989	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	371096	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	185594	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	182323	56.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	113.80%
7) Chloroethane-d5	1.912	69	137563	59.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	119.40%
11) 1,1-Dichloroethene-d2	2.575	63	305140	55.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	111.88%
21) 2-Butanone-d5	4.626	46	312512	124.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	124.68%
24) Chloroform-d	5.073	84	312942	57.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	115.12%
26) 1,2-Dichloroethane-d4	5.710	65	196445	58.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	116.56%
32) Benzene-d6	5.735	84	657686	59.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	119.60%
36) 1,2-Dichloropropane-d6	6.700	67	215561	60.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	120.18%#
41) Toluene-d8	7.906	98	589427	59.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	119.12%
43) trans-1,3-Dichloroprop...	8.185	79	90090	57.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	114.88%
47) 2-Hexanone-d5	8.639	63	205096	119.40	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	119.40%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	314840	58.00	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	116.00%
66) 1,2-Dichlorobenzene-d4	12.198	152	223641	61.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	122.12%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	27861	7.28	ug/L	90
8) Chloroethane	1.935	64	21465	9.90	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	2489	0.88	ug/L #	40
12) 1,1-Dichloroethene	2.588	96	135341	48.45	ug/L	97
13) Acetone	2.633	43	4271	2.44	ug/L	87
17) trans-1,2-Dichloroethene	3.359	96	3378	1.17	ug/L	84
19) 1,1-Dichloroethane	3.877	63	2688470	475.84	ug/L	99
20) cis-1,2-Dichloroethene	4.674	96	40840	12.83	ug/L	99
22) 2-Butanone	4.726	43	10513	3.65	ug/L	76
25) Chloroform	5.327	83	11063	2.00	ug/L	95
27) 1,2-Dichloroethane	5.806	62	3907	0.92	ug/L #	94
30) 1,1,1-Trichloroethane	5.327	97	7667638	1714.08	ug/L	99
31) Carbon tetrachloride	5.327	117	1031574	280.87	ug/L	100
33) Benzene	5.784	78	31570	2.52	ug/L	100
34) Trichloroethene	6.549	95	2224	0.73	ug/L	91
42) Toluene	7.976	91	20222	1.54	ug/L	99
44) trans-1,3-Dichloropropene	8.185	75	3638	0.83	ug/L #	73
45) 1,1,2-Trichloroethane	8.407	97	2710	0.86	ug/L	91
46) Tetrachloroethene	8.555	164	1211	0.50	ug/L	85

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Quant Title : VOC Analysis
QLast Update : Fri May 14 04:42:41 2021
Response via : Initial Calibration

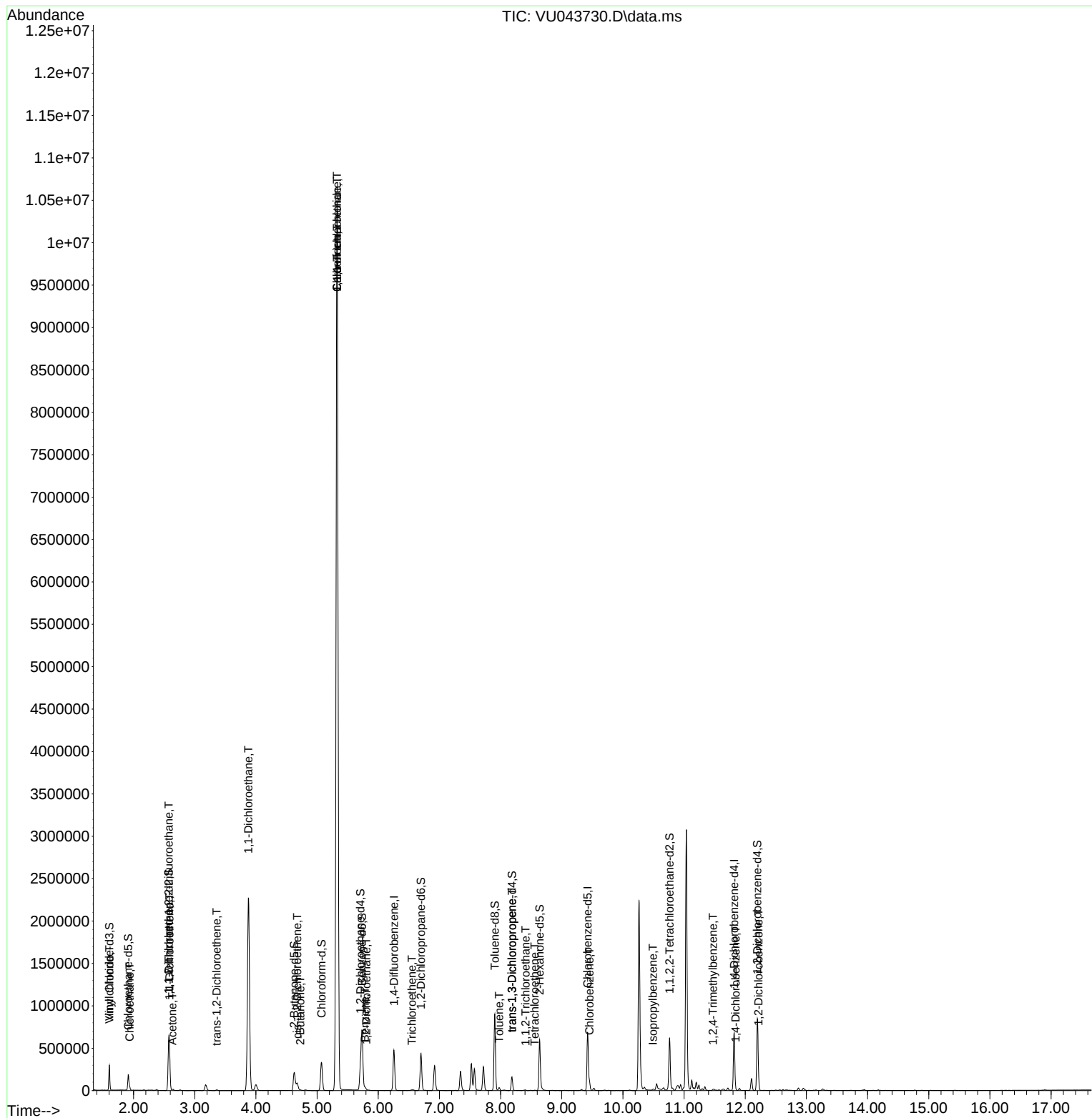
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.452	112	45498	5.60	ug/L	98
61) Isopropylbenzene	10.491	105	5486	0.45	ug/L #	89
63) 1,2,4-Trimethylbenzene	11.475	105	5033	0.50	ug/L	95
65) 1,4-Dichlorobenzene	11.844	146	3072	0.51	ug/L #	82
67) 1,2-Dichlorobenzene	12.217	146	16666	2.71	ug/L #	93

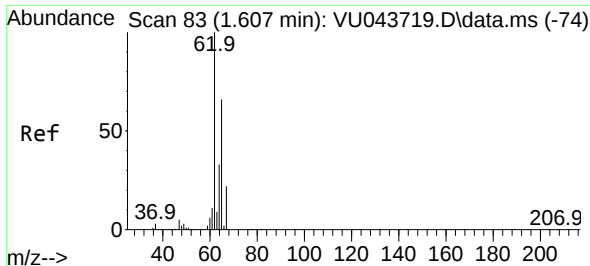
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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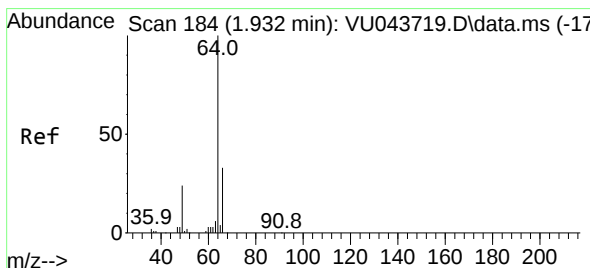
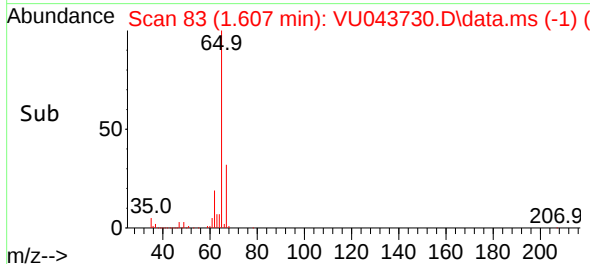
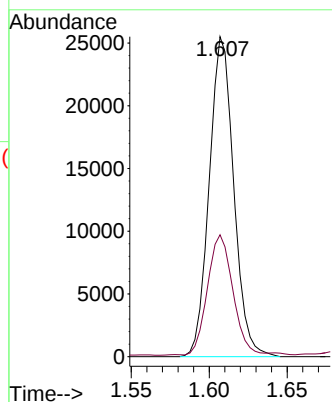
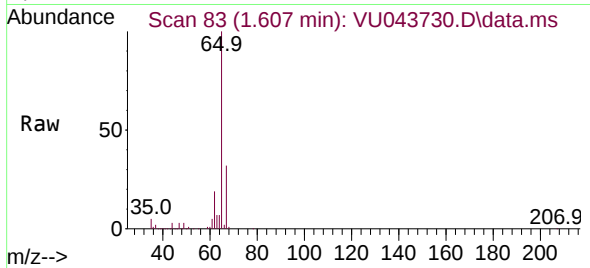




#5
 Vinyl chloride
 Concen: 7.28 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU043730.D
 Acq: 14 May 2021 03:52

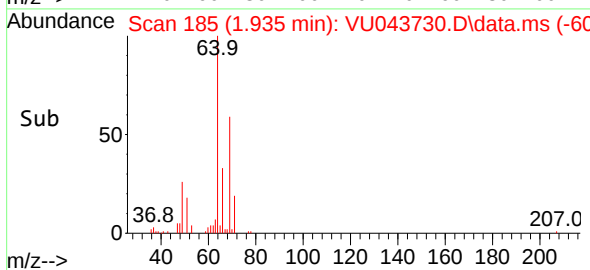
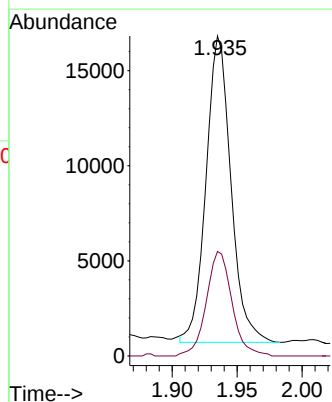
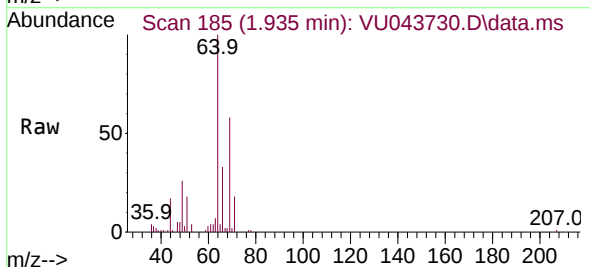
Instrument :
 MSVOA_U
 ClientSampled :

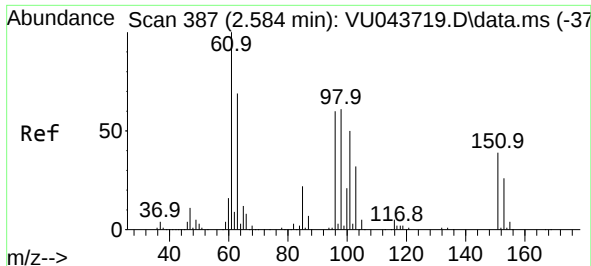
Tgt Ion: 62 Resp: 27861
 Ion Ratio Lower Upper
 62 100
 64 38.1 22.9 42.5



#8
 Chloroethane
 Concen: 9.90 ug/L
 RT: 1.935 min Scan# 185
 Delta R.T. 0.003 min
 Lab File: VU043730.D
 Acq: 14 May 2021 03:52

Tgt Ion: 64 Resp: 21465
 Ion Ratio Lower Upper
 64 100
 66 32.7 23.2 43.2





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.88 ug/L

RT: 2.575 min Scan# 384

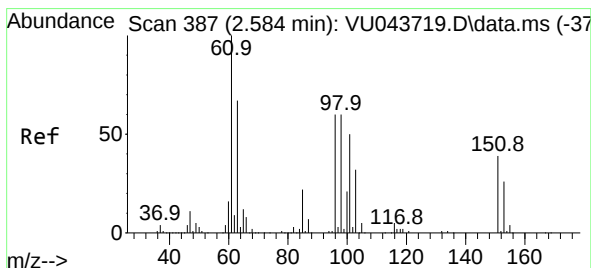
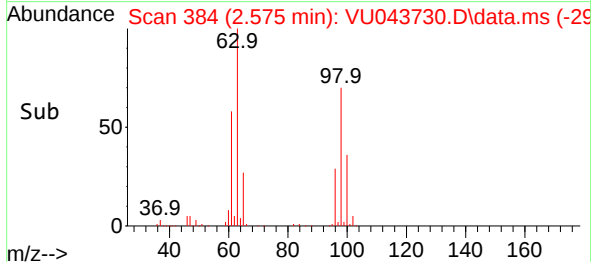
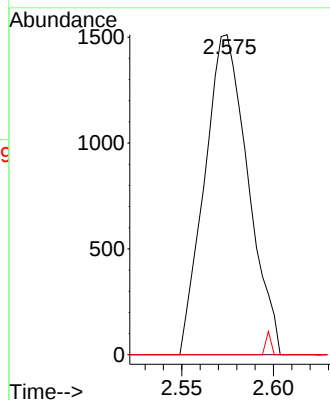
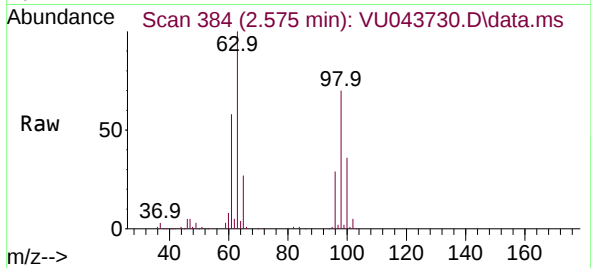
Delta R.T. -0.010 min

Lab File: VU043730.D

Acq: 14 May 2021 03:52

Tgt Ion:	101	Resp:	2489
Ion	Ratio	Lower	Upper
101	100		
85	49.1	34.2	51.4
151	0.0	60.4	90.6#

Instrument :
MSVOA_U
ClientSampled :



#12

1,1-Dichloroethene

Concen: 48.45 ug/L

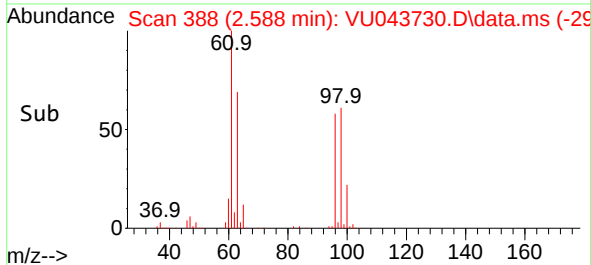
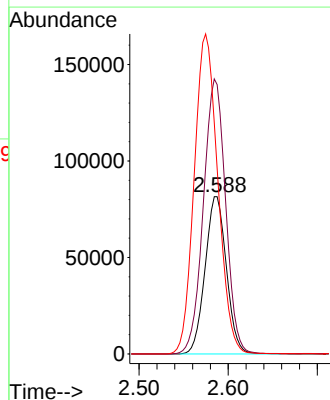
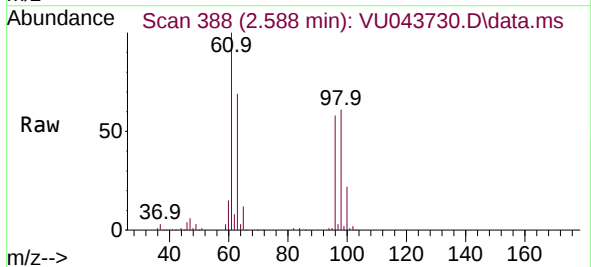
RT: 2.588 min Scan# 388

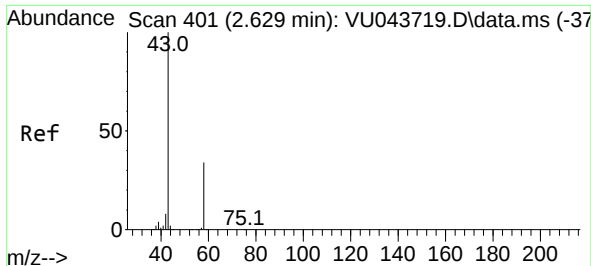
Delta R.T. 0.003 min

Lab File: VU043730.D

Acq: 14 May 2021 03:52

Tgt Ion:	96	Resp:	135341
Ion	Ratio	Lower	Upper
96	100		
61	171.1	116.3	215.9
63	117.8	80.8	150.2

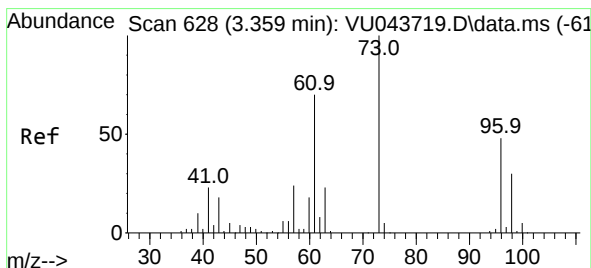
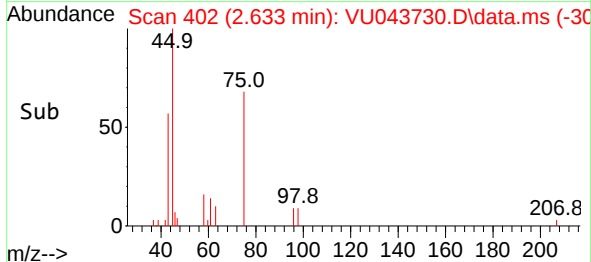
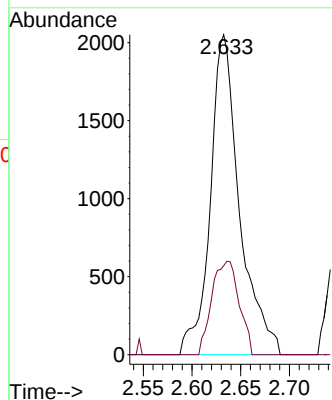
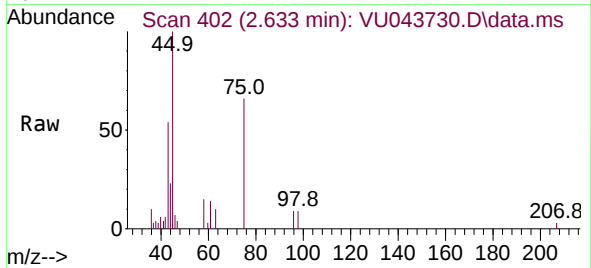




#13
Acetone
Concen: 2.44 ug/L
RT: 2.633 min Scan# 402
Delta R.T. 0.003 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

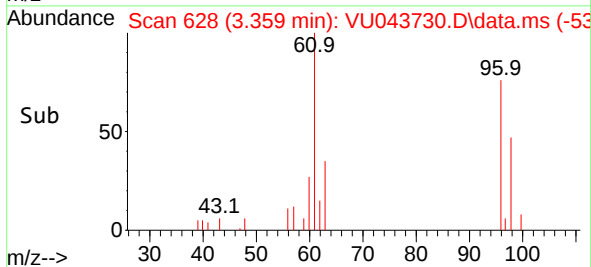
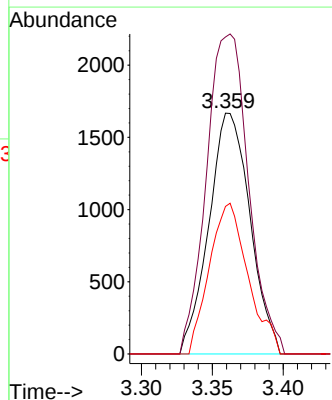
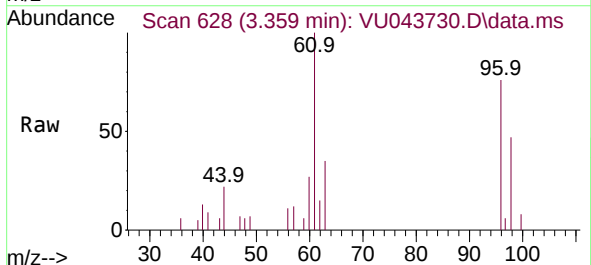
Instrument :
MSVOA_U
ClientSampled :

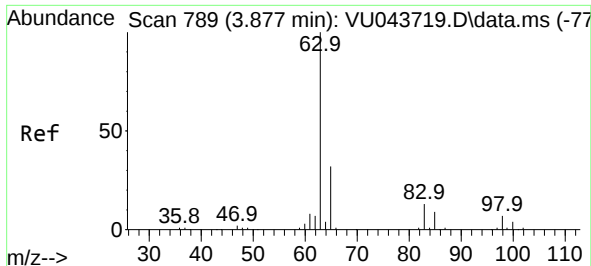
Tgt Ion: 43 Resp: 4271
Ion Ratio Lower Upper
43 100
58 27.2 0.0 69.4



#17
trans-1,2-Dichloroethene
Concen: 1.17 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion: 96 Resp: 3378
Ion Ratio Lower Upper
96 100
61 121.5 101.5 188.5
98 56.6 44.9 83.5

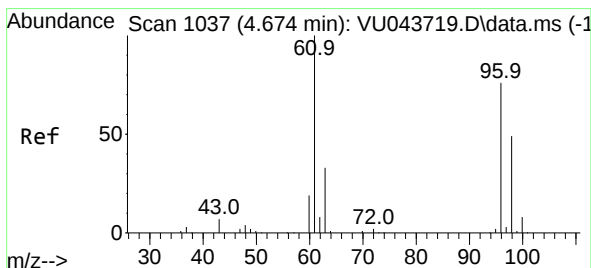
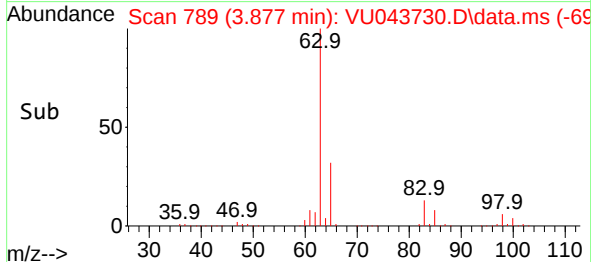
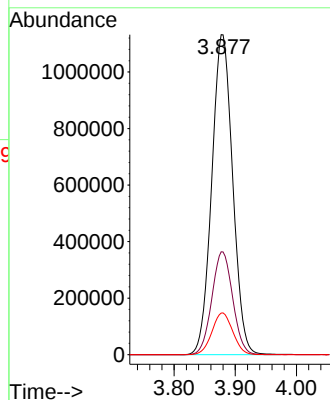
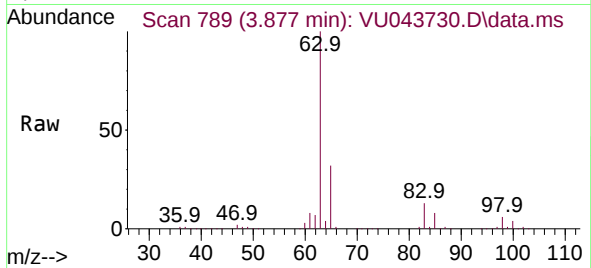




#19
1,1-Dichloroethane
Concen: 475.84 ug/L
RT: 3.877 min Scan# 789
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

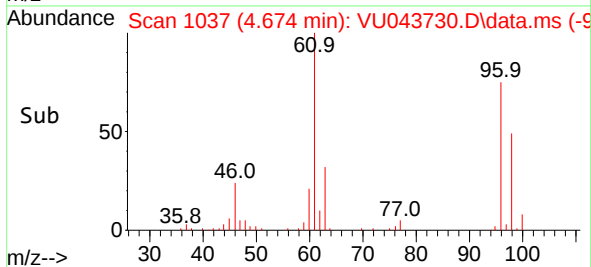
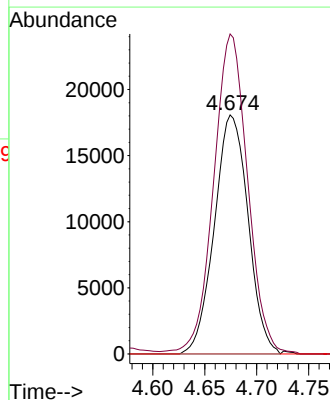
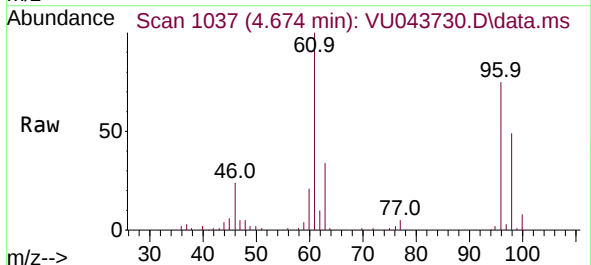
Instrument :
MSVOA_U
ClientSampleId :

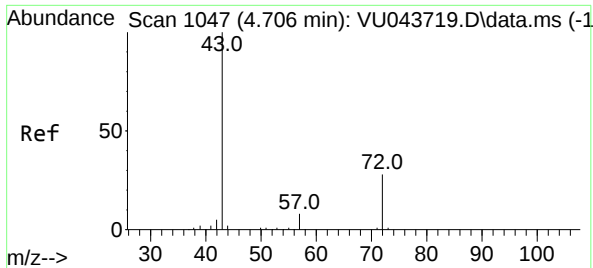
Tgt Ion: 63 Resp: 2688470
Ion Ratio Lower Upper
63 100
65 32.1 22.0 41.0
83 13.0 8.7 16.1



#20
cis-1,2-Dichloroethene
Concen: 12.83 ug/L
RT: 4.674 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion: 96 Resp: 40840
Ion Ratio Lower Upper
96 100
61 133.8 93.1 172.9
68 0.0 0.0 0.0

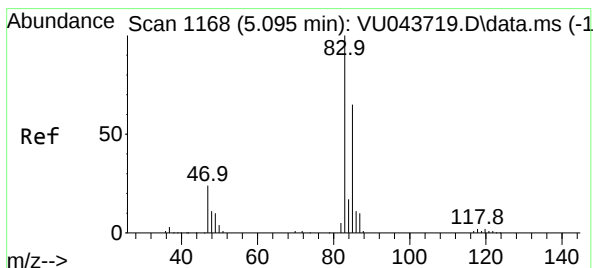
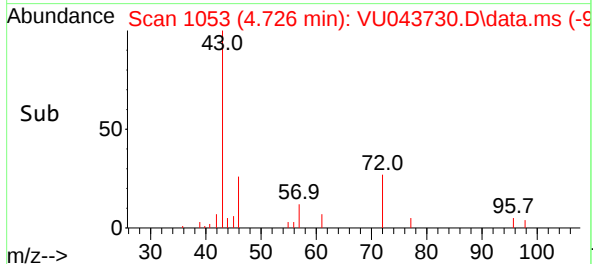
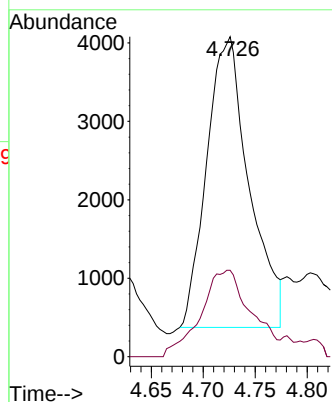
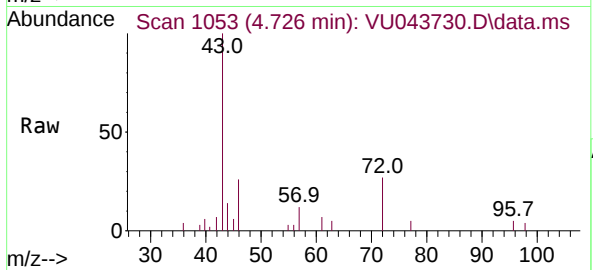




#22
2-Butanone
Concen: 3.65 ug/L
RT: 4.726 min Scan# 1053
Delta R.T. 0.019 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

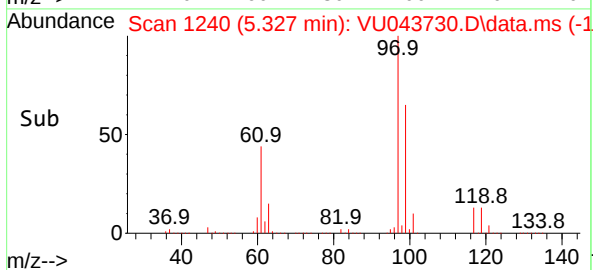
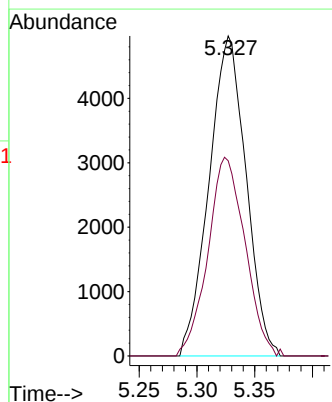
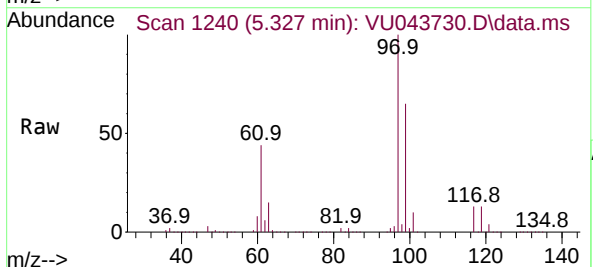
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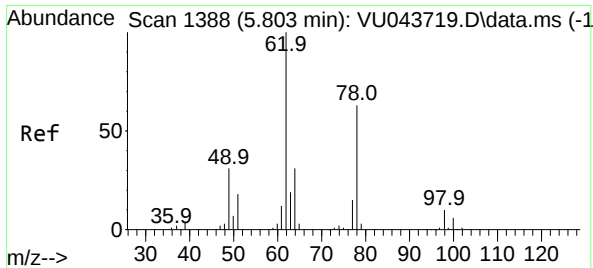
Tgt Ion: 43 Resp: 10513
Ion Ratio Lower Upper
43 100
72 14.9 13.9 41.6



#25
Chloroform
Concen: 2.00 ug/L
RT: 5.327 min Scan# 1240
Delta R.T. 0.232 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion: 83 Resp: 11063
Ion Ratio Lower Upper
83 100
85 61.0 45.7 84.9

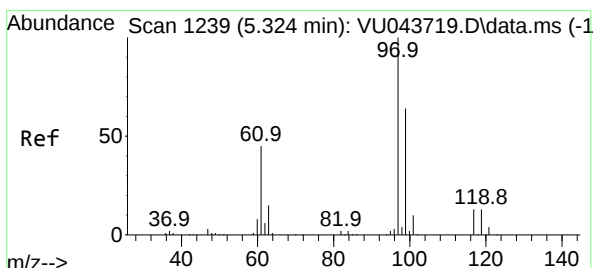
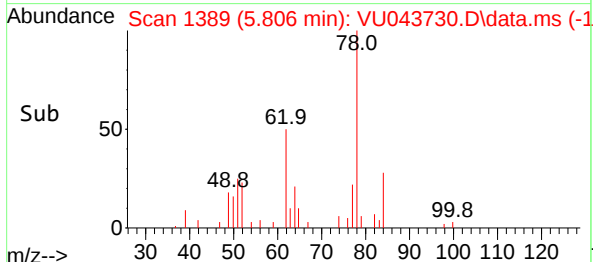
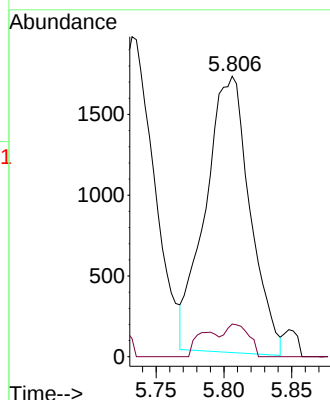
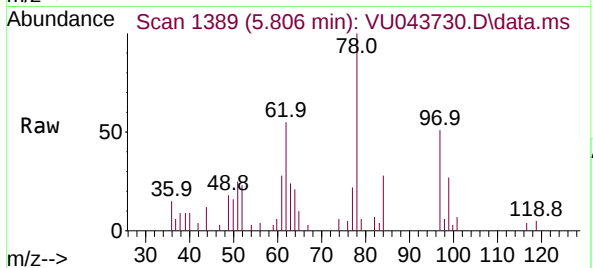




#27
1,2-Dichloroethane
Concen: 0.92 ug/L
RT: 5.806 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

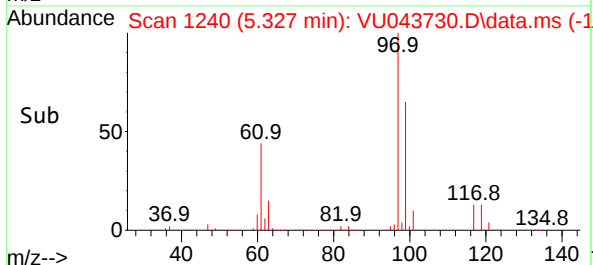
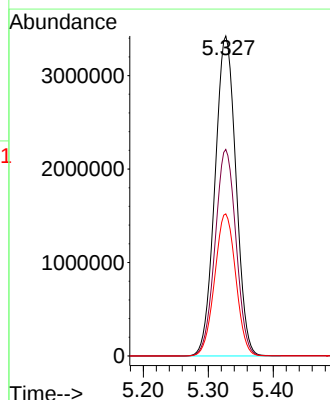
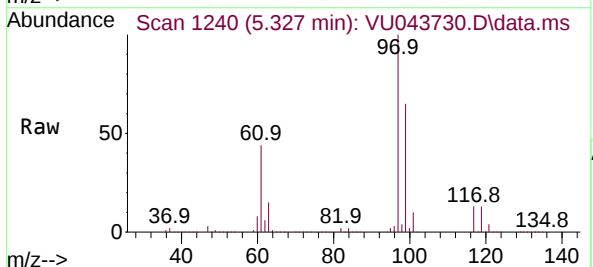
Instrument :
MSVOA_U
ClientSampled :

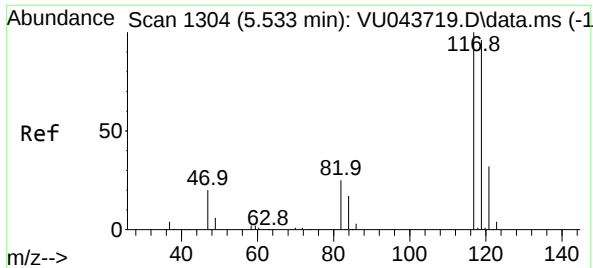
Tgt Ion: 62 Resp: 3907
Ion Ratio Lower Upper
62 100
98 11.6 7.6 11.4#



#30
1,1,1-Trichloroethane
Concen: 1714.08 ug/L
RT: 5.327 min Scan# 1240
Delta R.T. 0.003 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion: 97 Resp: 7667638
Ion Ratio Lower Upper
97 100
99 64.5 51.7 77.5
61 44.6 36.9 55.3

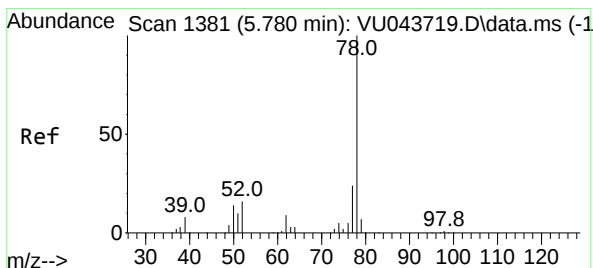
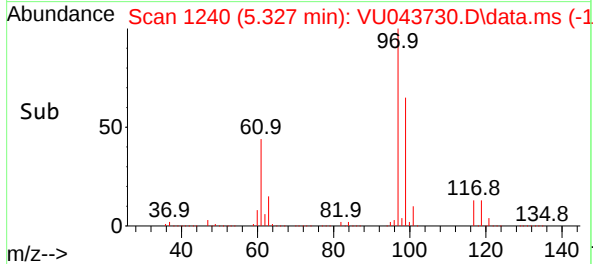
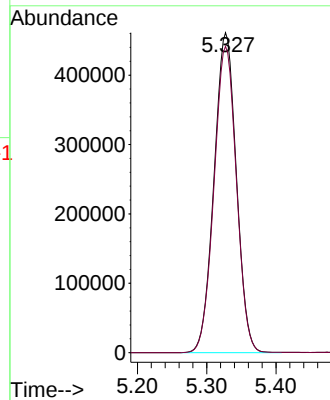
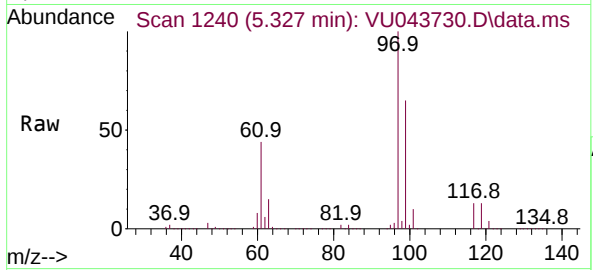




#31
Carbon tetrachloride
Concen: 280.87 ug/L
RT: 5.327 min Scan# 1240
Delta R.T. -0.206 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

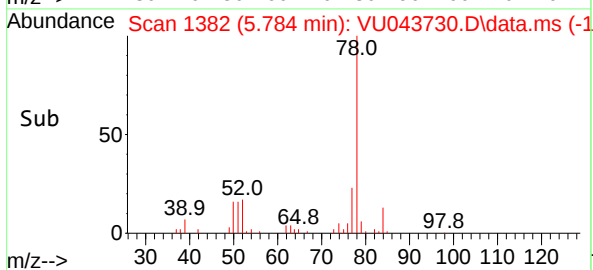
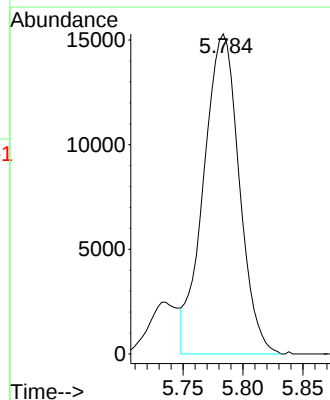
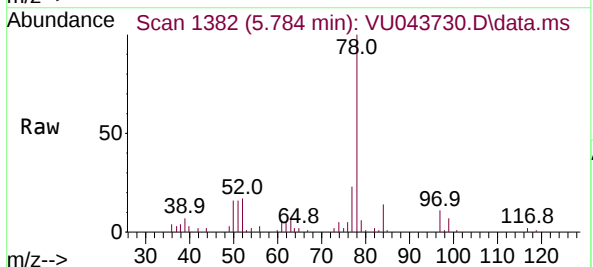
Instrument :
MSVOA_U
ClientSampleId :

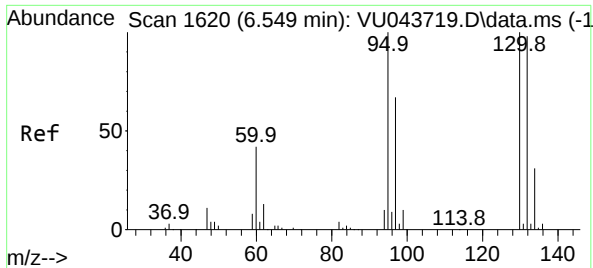
Tgt Ion:117 Resp: 1031574
Ion Ratio Lower Upper
117 100
119 96.2 77.0 115.6



#33
Benzene
Concen: 2.52 ug/L
RT: 5.784 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion: 78 Resp: 31570



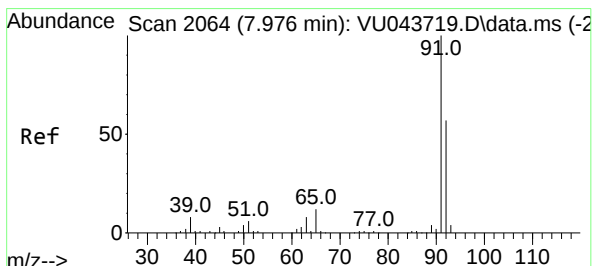
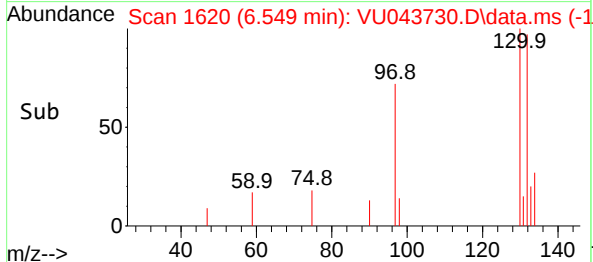
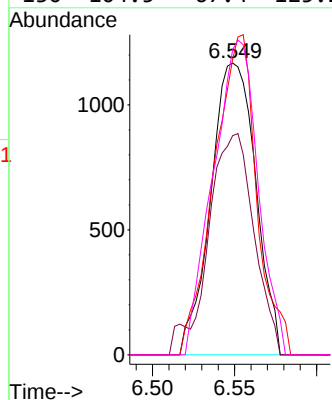
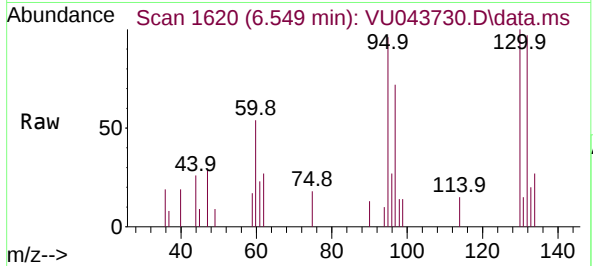


#34
Trichloroethene
Concen: 0.73 ug/L
RT: 6.549 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 95 Resp: 2224

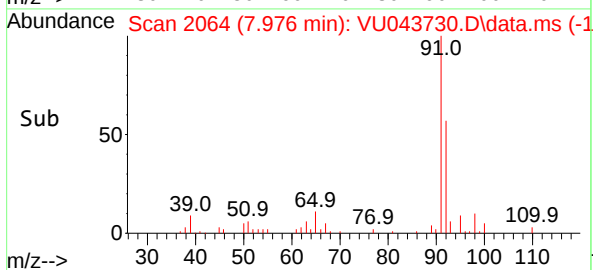
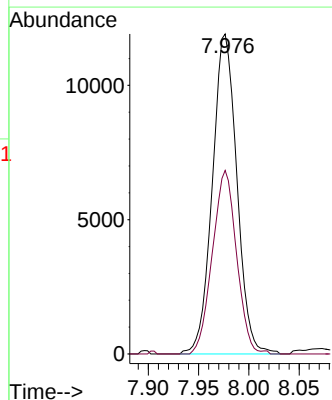
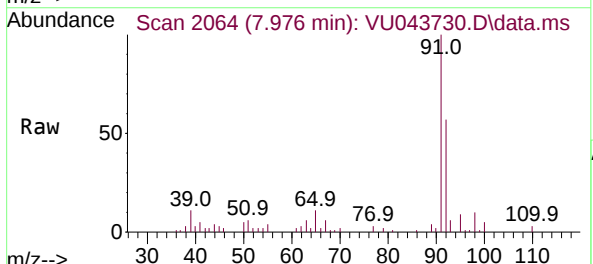
Ion	Ratio	Lower	Upper
95	100		
97	75.1	44.2	82.2
132	101.4	66.8	124.2
130	104.5	67.4	125.2

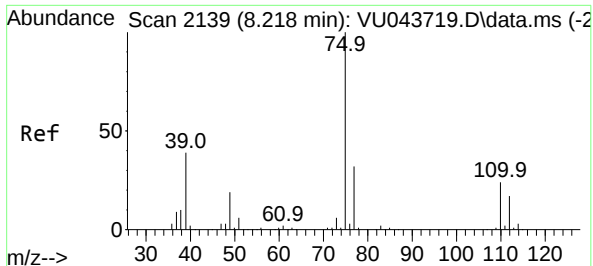


#42
Toluene
Concen: 1.54 ug/L
RT: 7.976 min Scan# 2064
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion: 91 Resp: 20222

Ion	Ratio	Lower	Upper
91	100		
92	57.4	39.7	73.7

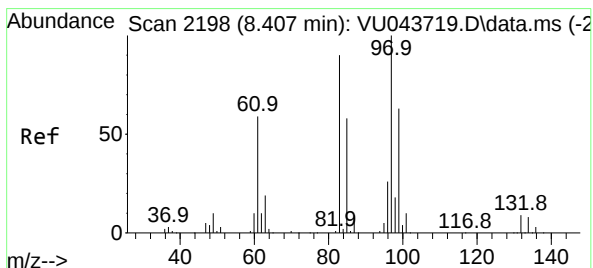
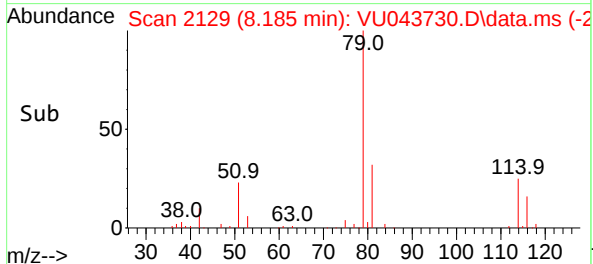
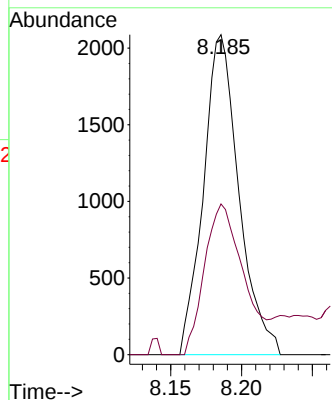
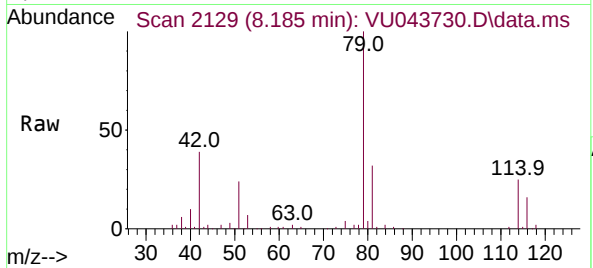




#44
trans-1,3-Dichloropropene
Concen: 0.83 ug/L
RT: 8.185 min Scan# 2129
Delta R.T. -0.032 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

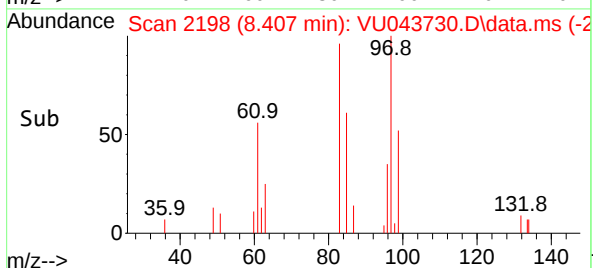
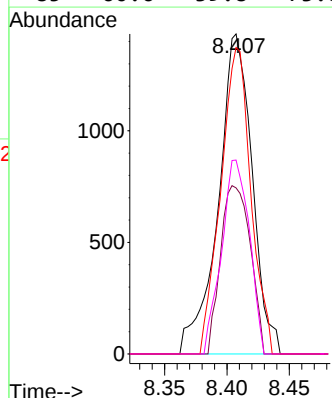
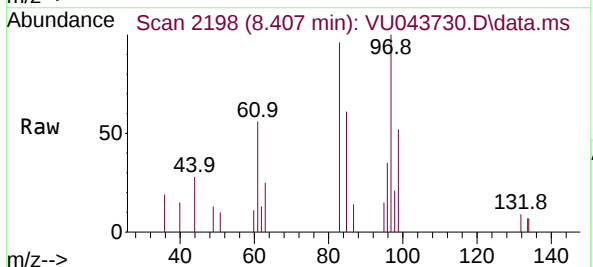
Instrument :
MSVOA_U
ClientSampled :

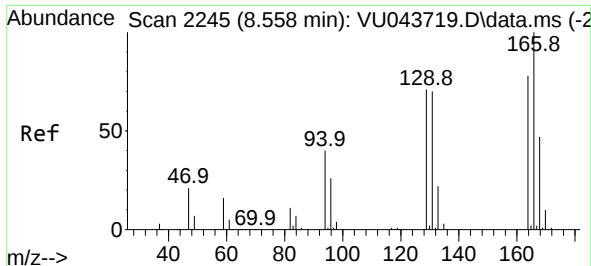
Tgt Ion: 75 Resp: 3638
Ion Ratio Lower Upper
75 100
77 47.1 22.4 41.6#



#45
1,1,2-Trichloroethane
Concen: 0.86 ug/L
RT: 8.407 min Scan# 2198
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion: 97 Resp: 2710
Ion Ratio Lower Upper
97 100
99 51.9 43.2 80.2
83 95.7 61.7 114.5
85 60.6 39.8 73.8



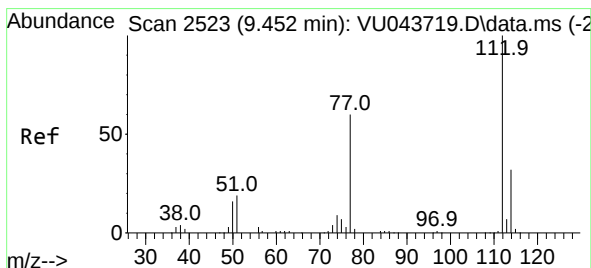
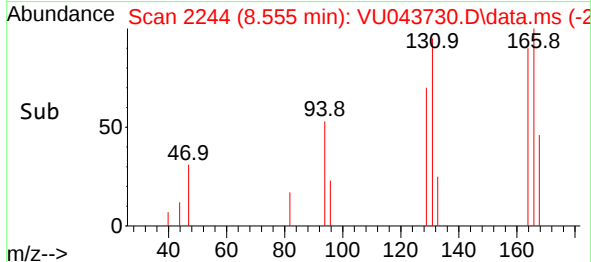
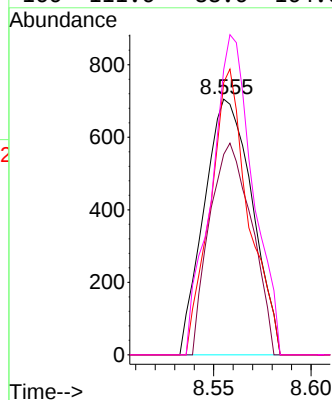
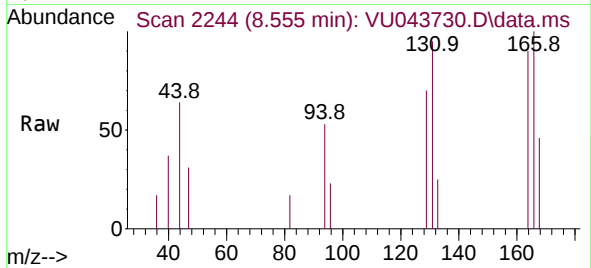


#46
Tetrachloroethene
Concen: 0.50 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion:164 Resp: 1211

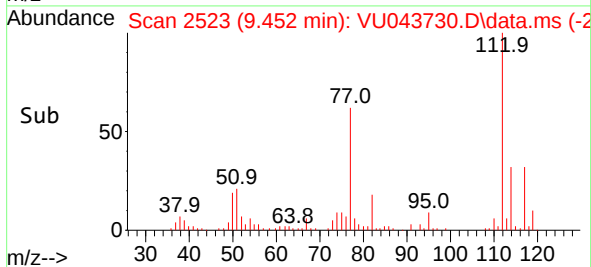
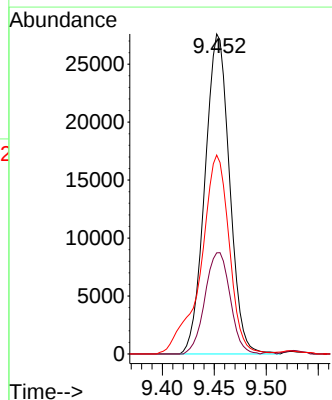
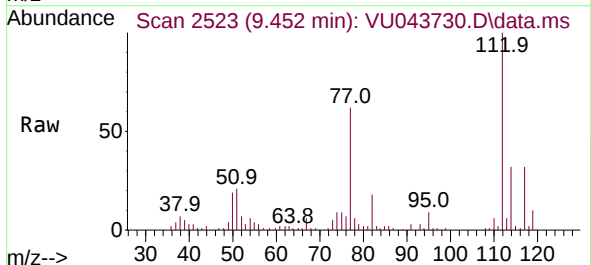
Ion	Ratio	Lower	Upper
164	100		
129	78.4	65.5	121.6
131	106.5	63.0	117.0
166	111.6	88.6	164.6

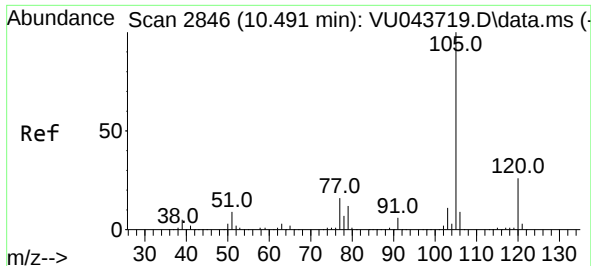


#51
Chlorobenzene
Concen: 5.60 ug/L
RT: 9.452 min Scan# 2523
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion:112 Resp: 45498

Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.7	42.1
77	62.2	48.5	72.7

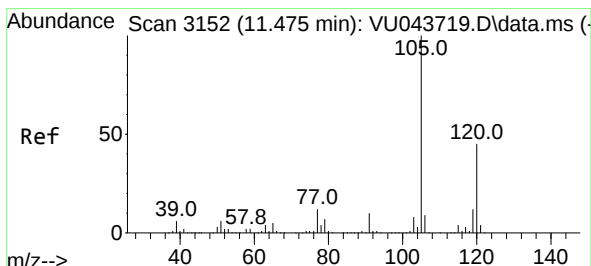
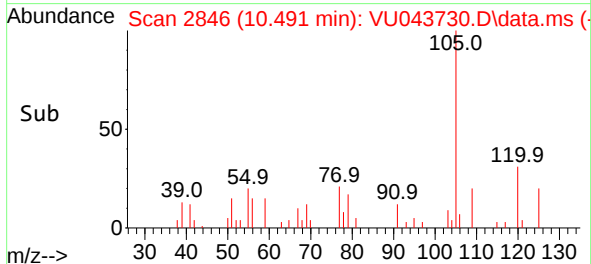
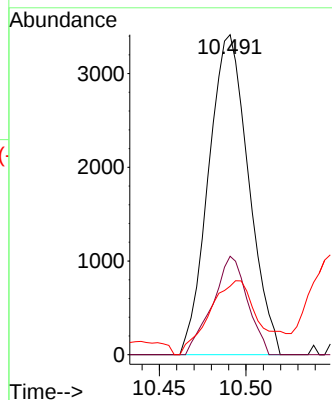
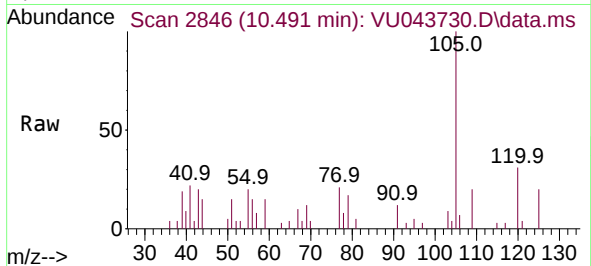




#61
Isopropylbenzene
Concen: 0.45 ug/L
RT: 10.491 min Scan# 2846
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

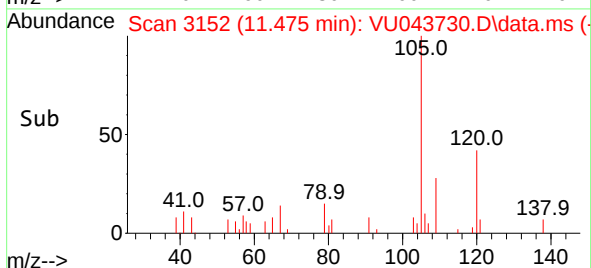
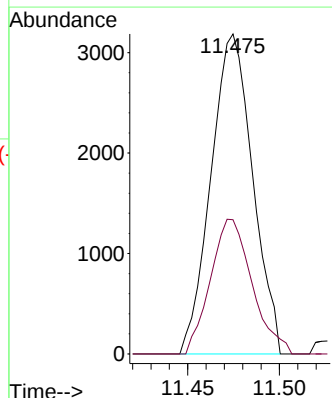
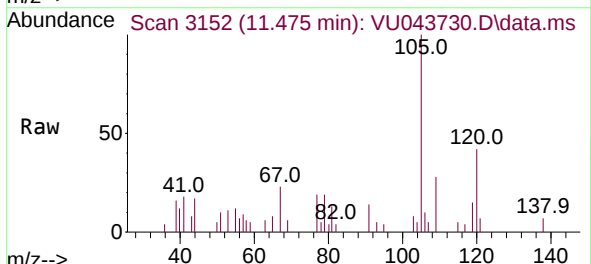
Instrument :
MSVOA_U
ClientSampleId :

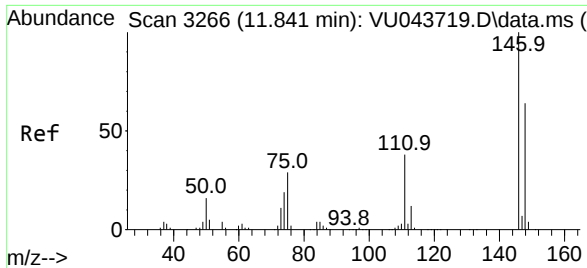
Tgt Ion:105 Resp: 5486
Ion Ratio Lower Upper
105 100
120 26.8 21.0 31.4
77 27.1 12.5 18.7#



#63
1,2,4-Trimethylbenzene
Concen: 0.50 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion:105 Resp: 5033
Ion Ratio Lower Upper
105 100
120 42.0 36.2 54.2

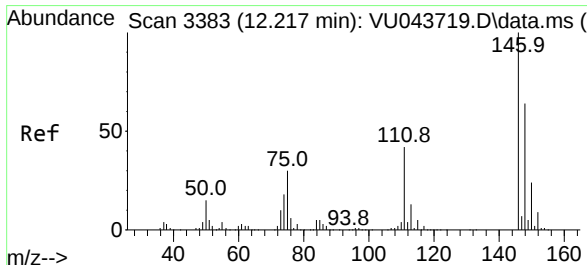
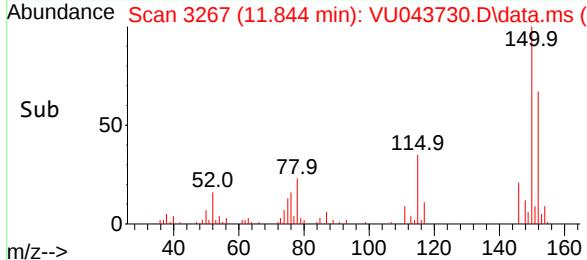
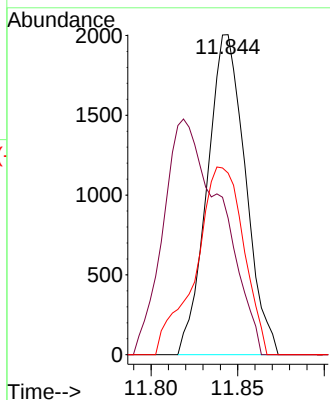
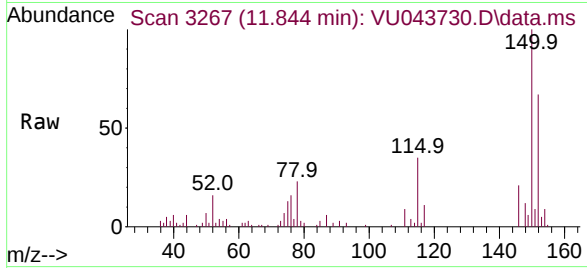




#65
1,4-Dichlorobenzene
Concen: 0.51 ug/L
RT: 11.844 min Scan# 3267
Delta R.T. 0.003 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion:146 Resp: 3072
Ion Ratio Lower Upper
146 100
111 42.6 27.1 50.3
148 84.6 45.4 84.4#



#67
1,2-Dichlorobenzene
Concen: 2.71 ug/L
RT: 12.217 min Scan# 3383
Delta R.T. 0.000 min
Lab File: VU043730.D
Acq: 14 May 2021 03:52

Tgt Ion:146 Resp: 16666
Ion Ratio Lower Upper
146 100
111 53.3 33.5 50.3#
148 64.3 51.7 77.5

