

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU110724\
 Data File : VU061530.D
 Acq On : 07 Nov 2024 19:09
 Operator : MD/SY
 Sample : P4743-15
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 08 00:31:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102324WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 08 00:26:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	144767	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	137750	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	63346	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	69893	7.107	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	142.200%#
7) Chloroethane-d5	1.908	69	43294	4.802	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.000%
11) 1,1-Dichloroethene-d2	2.560	65	20969	4.984	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.600%
20) 2-Butanone-d5	4.634	46	107334	53.758	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.520%
24) Chloroform-d	5.052	84	100847	5.403	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.000%
26) 1,2-Dichloroethane-d4	5.695	65	51775	5.565	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.200%
32) Benzene-d6	5.718	84	209617	5.401	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.000%
36) 1,2-Dichloropropane-d6	6.682	67	64638	5.539	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	110.800%
41) Toluene-d8	7.891	98	192587	5.307	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.200%
43) trans-1,3-Dichloroprop...	8.174	79	20359	4.274	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.400%
46) 2-Hexanone-d5	8.627	63	103495	53.048	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.100%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	48896	5.541	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	66749	5.951	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	119.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.634	85	3569	0.370	ug/L	99
3) Chloromethane	1.599	50	34284	3.369	ug/L #	46
5) Vinyl chloride	1.599	62	3015700	269.500	ug/L	100
8) Chloroethane	1.930	64	3427	0.416	ug/L	89
12) 1,1-Dichloroethene	2.573	96	22493	2.628	ug/L #	68
14) Carbon disulfide	2.788	76	7778	0.272	ug/L	98
15) Methyl Acetate	2.959	43	2608	0.833	ug/L #	47
16) Methylene chloride	3.039	84	2144	0.213	ug/L	79
17) Methyl tert-butyl Ether	3.354	73	2682	0.116	ug/L #	1
18) trans-1,2-Dichloroethene	3.345	96	138768	14.662	ug/L	96
19) 1,1-Dichloroethane	3.862	63	26003	1.457	ug/L	96
22) cis-1,2-Dichloroethene	4.653	96	6214179	574.831	ug/L	99
27) 1,2-Dichloroethane	5.776	62	2719	0.229	ug/L #	44
30) Cyclohexane	5.380	56	8707	0.515	ug/L	97
33) Benzene	5.766	78	189737	4.454	ug/L	100
34) Trichloroethene	6.534	95	19839	1.712	ug/L	97
35) Methylcyclohexane	6.756	83	5065	0.275	ug/L #	83
37) 1,2-Dichloropropane	6.682	63	7675	0.711	ug/L #	98
42) Toluene	7.962	91	413616	8.941	ug/L	100

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Response via : Initial Calibration

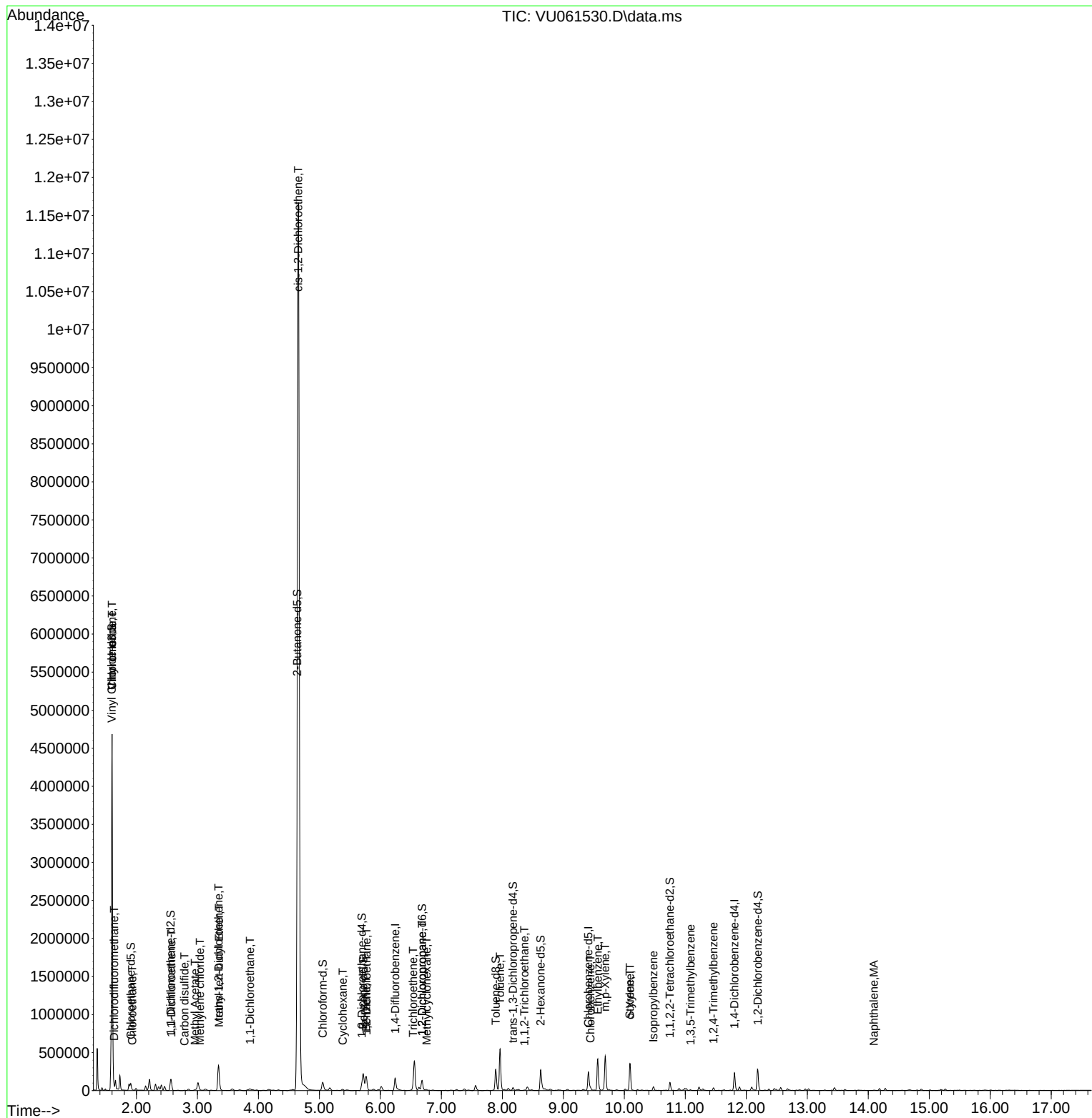
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.361	97	2570	0.331	ug/L #	20
51) Chlorobenzene	9.444	112	15929	0.545	ug/L	96
52) Ethylbenzene	9.563	91	298217	5.860	ug/L	100
53) m,p-Xylene	9.685	106	131597	6.788	ug/L	99
54) o-Xylene	10.094	106	99431	5.197	ug/L	97
55) Styrene	10.090	104	6020	0.196	ug/L #	1
60) Isopropylbenzene	10.476	105	30339	0.627	ug/L	99
62) 1,3,5-Trimethylbenzene	11.084	105	5770	0.146	ug/L	99
63) 1,2,4-Trimethylbenzene	11.460	105	20543	0.528	ug/L	100
71) Naphthalene	14.090	128	4992	0.281	ug/L	97

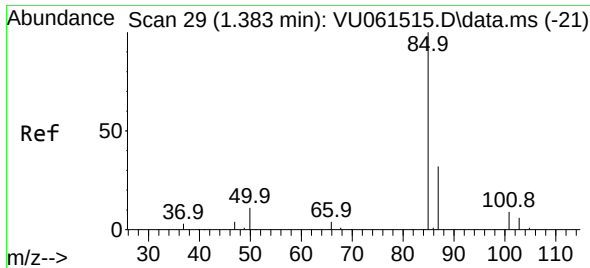
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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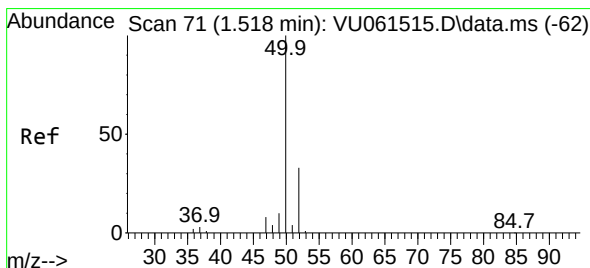
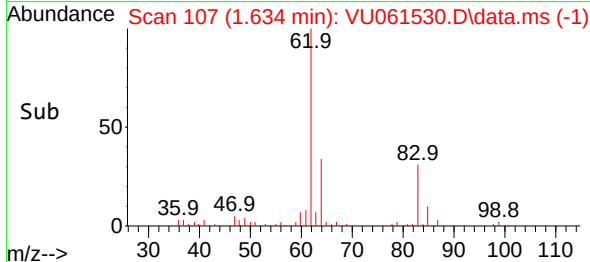
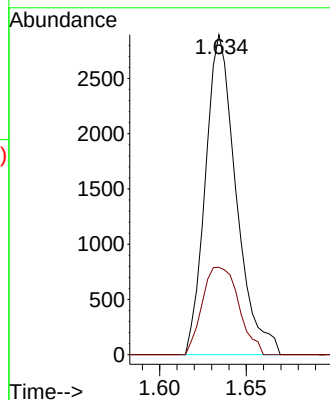
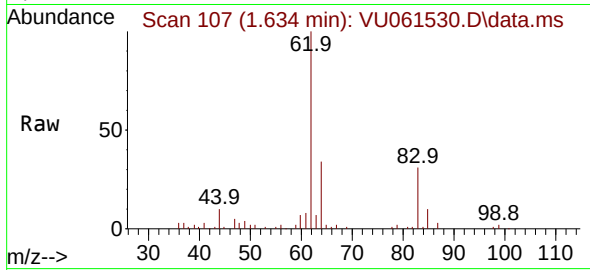




#2
 Dichlorodifluoromethane
 Concen: 0.370 ug/L
 RT: 1.634 min Scan# 10
 Delta R.T. 0.251 min
 Lab File: VU061530.D
 Acq: 07 Nov 2024 19:09

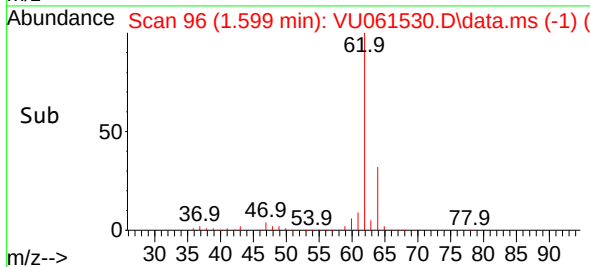
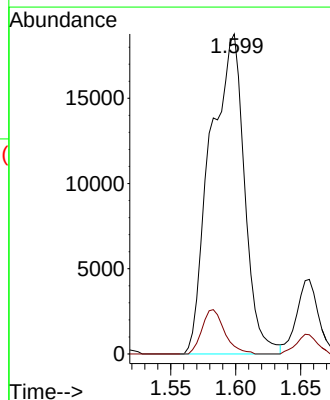
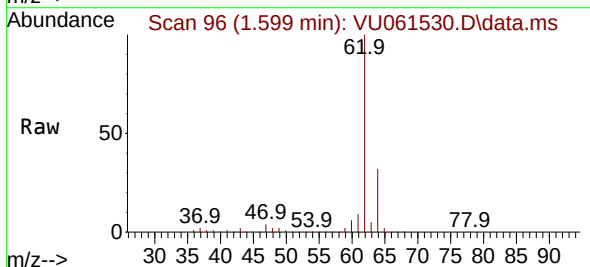
Instrument :
 MSVOA_U
 ClientSampleId :

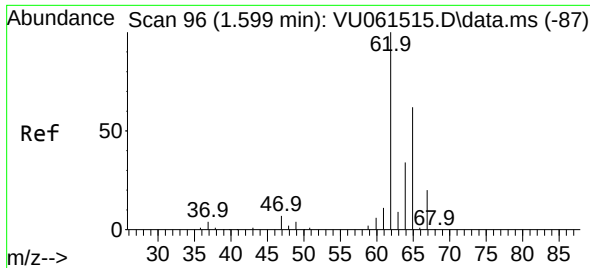
Tgt Ion: 85 Resp: 3569
 Ion Ratio Lower Upper
 85 100
 87 32.5 25.7 38.5



#3
 Chloromethane
 Concen: 3.369 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. 0.081 min
 Lab File: VU061530.D
 Acq: 07 Nov 2024 19:09

Tgt Ion: 50 Resp: 34284
 Ion Ratio Lower Upper
 50 100
 52 2.5 23.4 43.4#

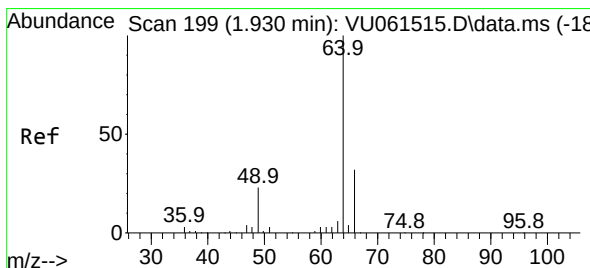
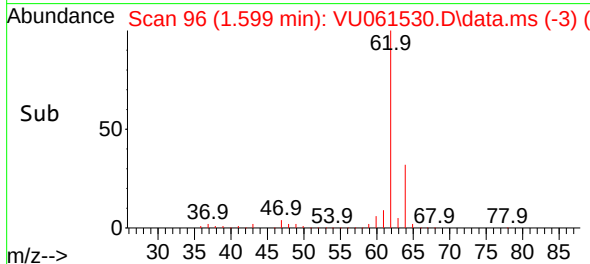
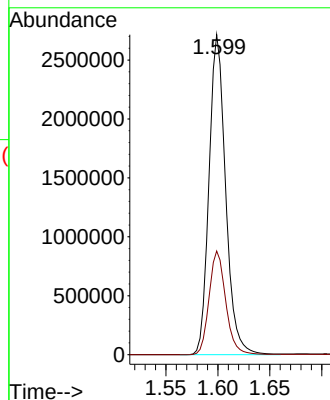
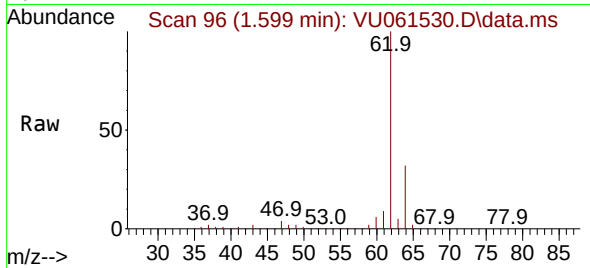




#5
 Vinyl chloride
 Concen: 269.500 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VU061530.D
 Acq: 07 Nov 2024 19:09

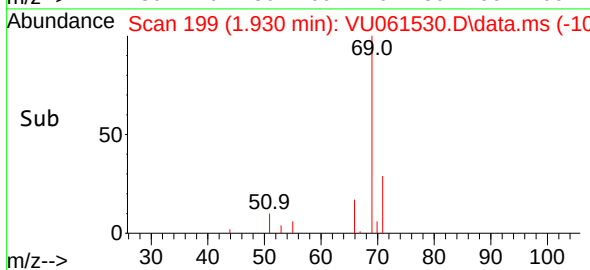
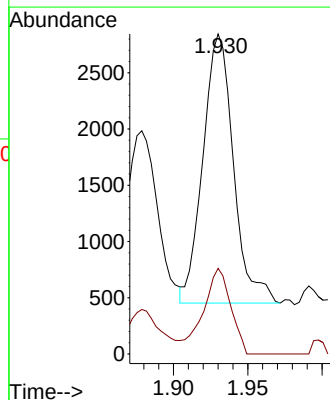
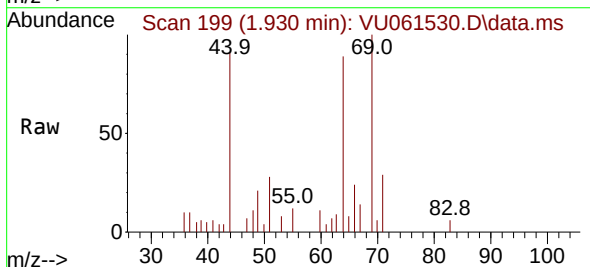
Instrument :
 MSVOA_U
 ClientSampleId :

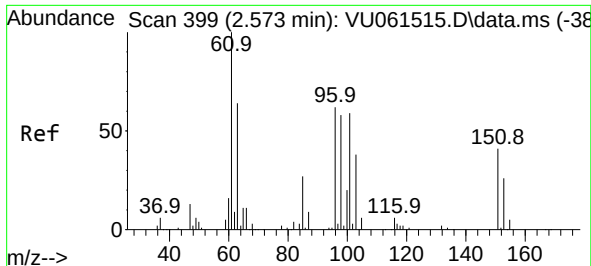
Tgt Ion: 62 Resp: 3015700
 Ion Ratio Lower Upper
 62 100
 64 32.4 22.6 42.0



#8
 Chloroethane
 Concen: 0.416 ug/L
 RT: 1.930 min Scan# 199
 Delta R.T. 0.000 min
 Lab File: VU061530.D
 Acq: 07 Nov 2024 19:09

Tgt Ion: 64 Resp: 3427
 Ion Ratio Lower Upper
 64 100
 66 26.7 23.1 42.9





#12

1,1-Dichloroethene

Concen: 2.628 ug/L

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

Instrument :

MSVOA_U

ClientSampleId :

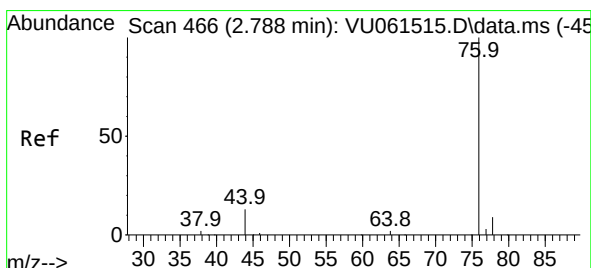
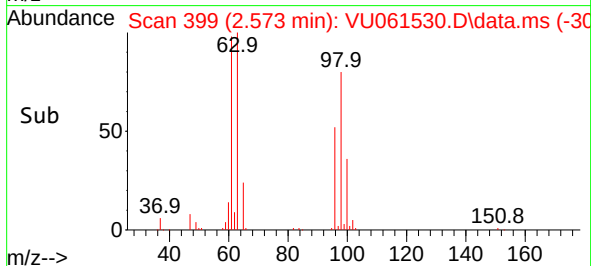
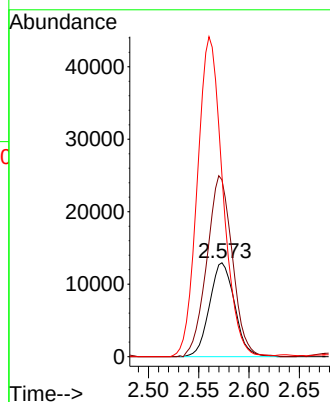
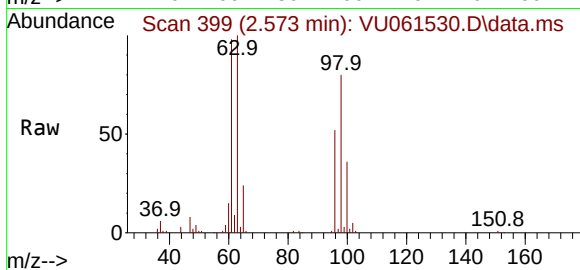
Tgt Ion: 96 Resp: 22493

Ion Ratio Lower Upper

96 100

61 188.0 119.1 221.1

63 192.7 89.4 166.0#



#14

Carbon disulfide

Concen: 0.272 ug/L

RT: 2.788 min Scan# 466

Delta R.T. 0.000 min

Lab File: VU061530.D

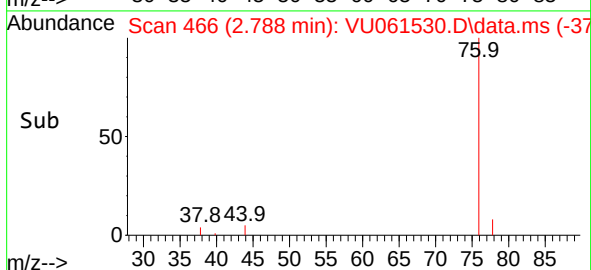
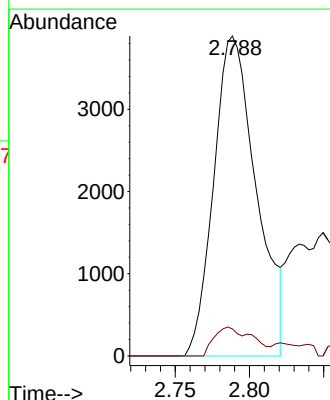
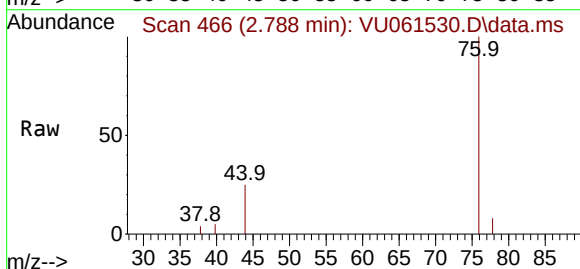
Acq: 07 Nov 2024 19:09

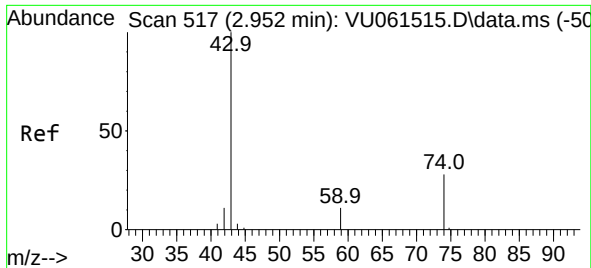
Tgt Ion: 76 Resp: 7778

Ion Ratio Lower Upper

76 100

78 8.4 7.4 11.2

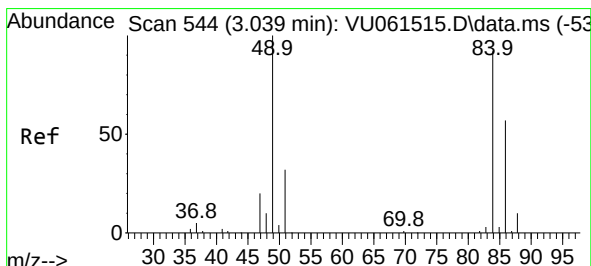
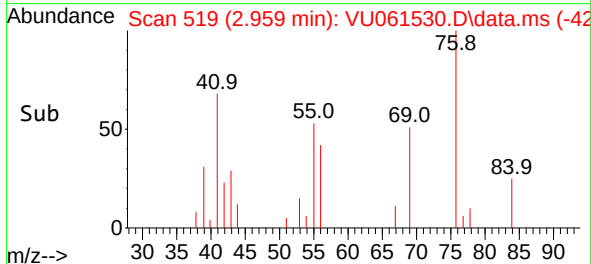
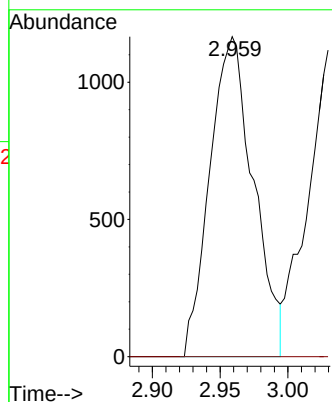
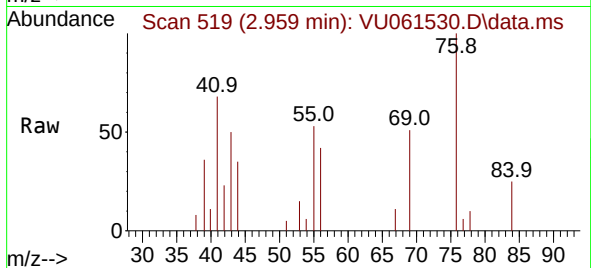




#15
Methyl Acetate
Concen: 0.833 ug/L
RT: 2.959 min Scan# 519
Delta R.T. 0.007 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

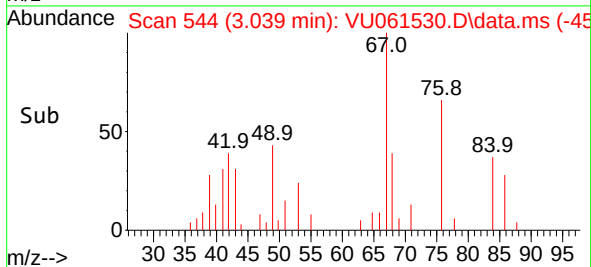
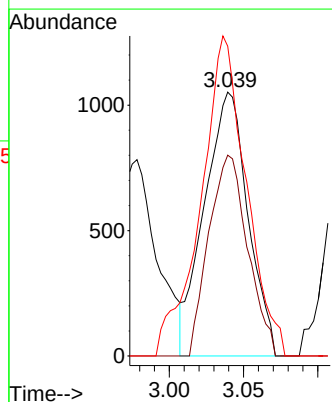
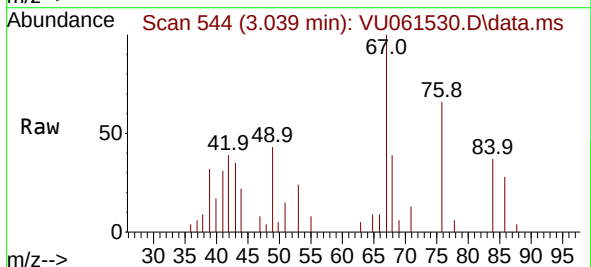
Instrument :
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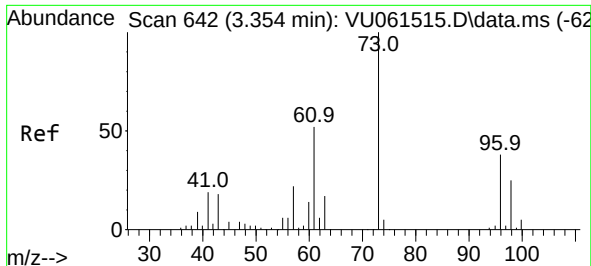
Tgt Ion: 43 Resp: 2608
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.4#



#16
Methylene chloride
Concen: 0.213 ug/L
RT: 3.039 min Scan# 544
Delta R.T. 0.000 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

Tgt Ion: 84 Resp: 2144
Ion Ratio Lower Upper
84 100
86 76.1 43.5 80.7
49 131.2 75.7 140.7





#17

Methyl tert-butyl Ether

Concen: 0.116 ug/L

RT: 3.354 min Scan# 642

Delta R.T. 0.000 min

Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

Instrument :

MSVOA_U

ClientSampleId :

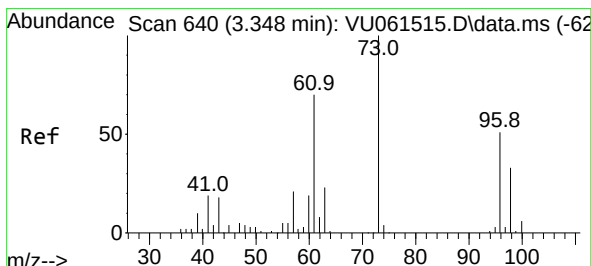
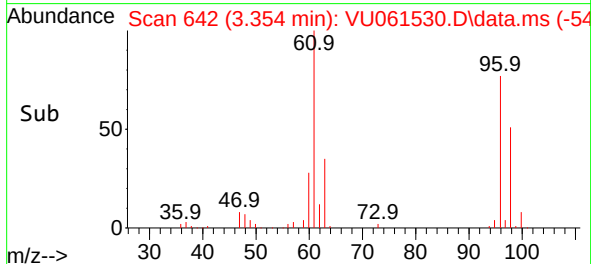
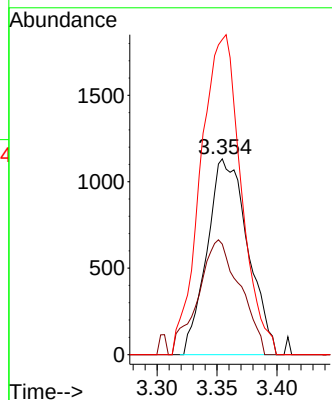
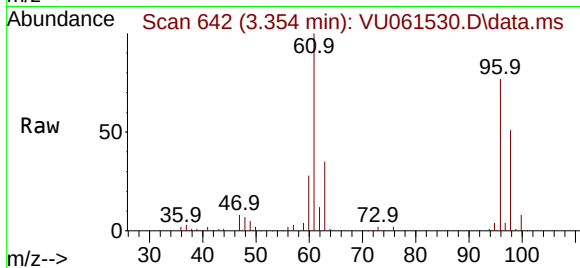
Tgt Ion: 73 Resp: 2682

Ion Ratio Lower Upper

73 100

43 60.1 15.0 22.4#

57 162.0 17.0 25.6#



#18

trans-1,2-Dichloroethene

Concen: 14.662 ug/L

RT: 3.345 min Scan# 639

Delta R.T. -0.003 min

Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

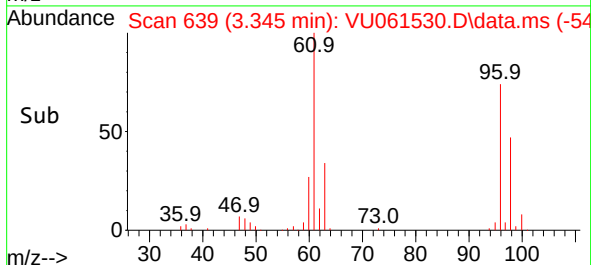
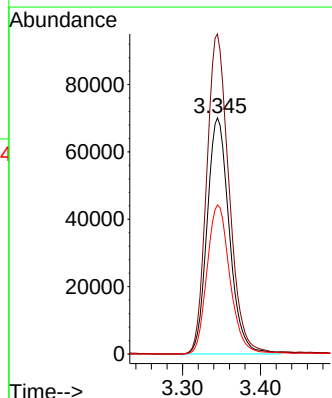
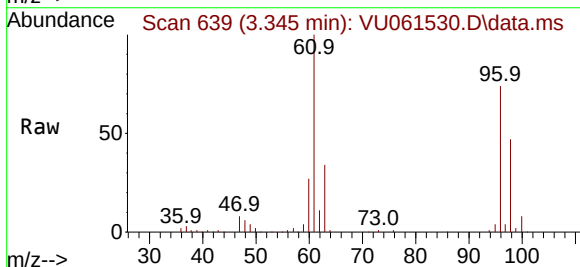
Tgt Ion: 96 Resp: 138768

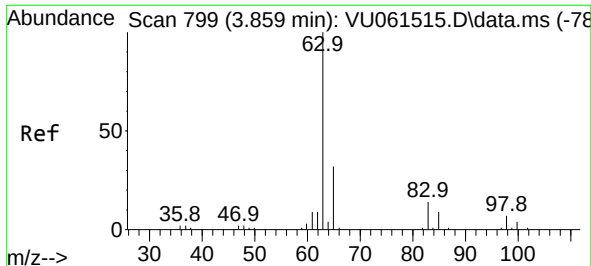
Ion Ratio Lower Upper

96 100

61 135.5 97.9 181.7

98 63.1 46.2 85.8





#19

1,1-Dichloroethane

Concen: 1.457 ug/L

RT: 3.862 min Scan# 80

Delta R.T. 0.003 min

Lab File: VU061530.D

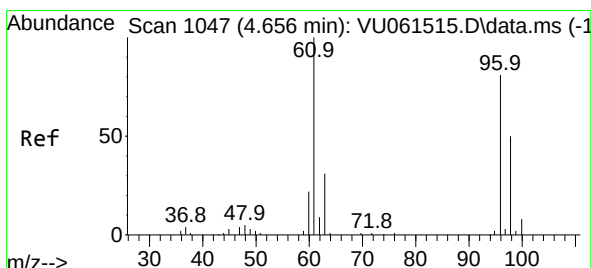
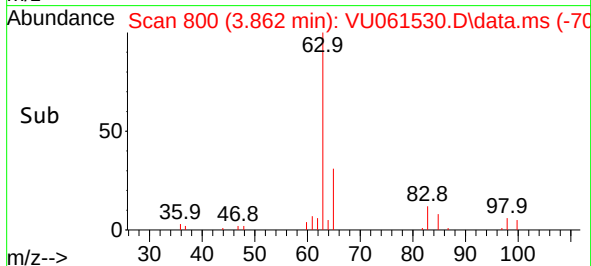
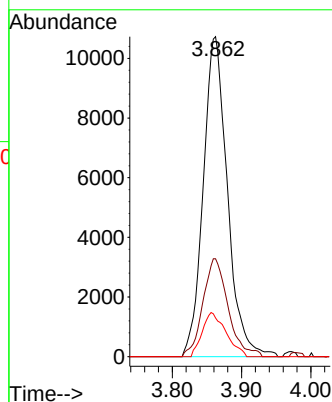
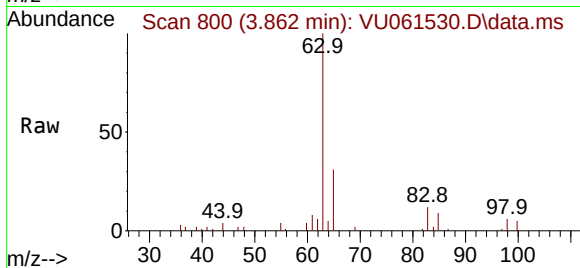
Acq: 07 Nov 2024 19:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 63	Resp: 26003
Ion Ratio	Lower Upper
63 100	
65 30.6	23.0 42.6
83 12.1	9.7 17.9



#22

cis-1,2-Dichloroethene

Concen: 574.831 ug/L

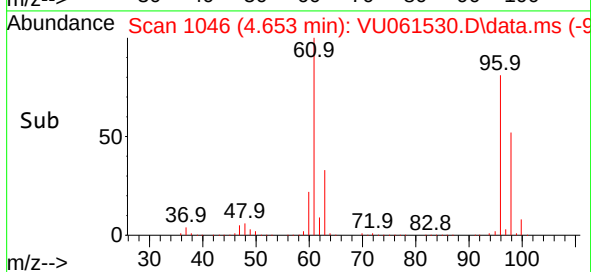
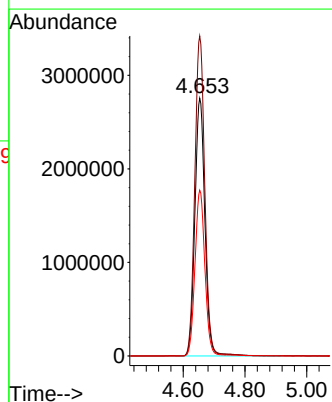
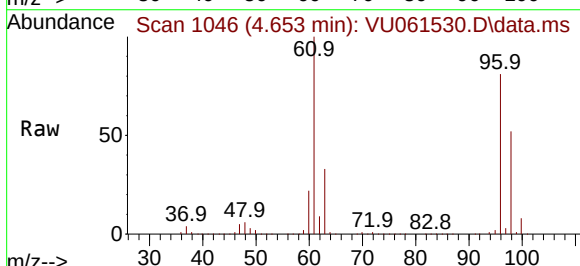
RT: 4.653 min Scan# 1046

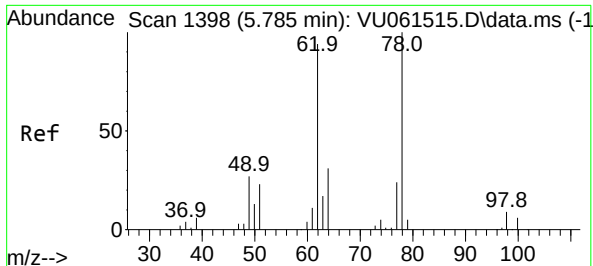
Delta R.T. -0.003 min

Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

Tgt Ion: 96		Resp: 6214179	
Ion	Ratio	Lower	Upper
96	100		
61	124.2	88.1	163.5
98	64.3	45.0	83.6

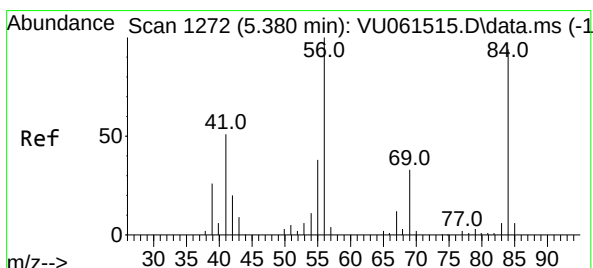
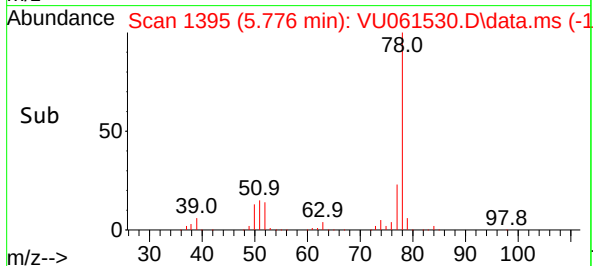
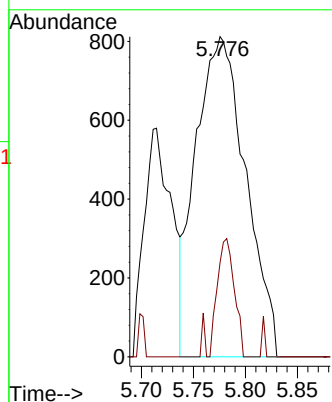
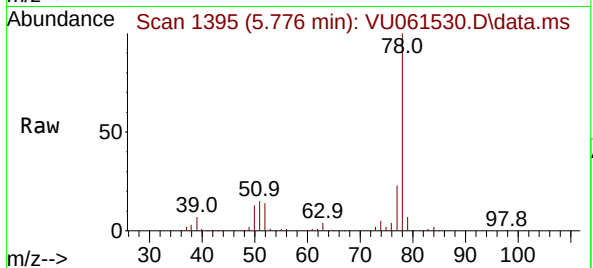




#27
1,2-Dichloroethane
Concen: 0.229 ug/L
RT: 5.776 min Scan# 1395
Delta R.T. -0.009 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

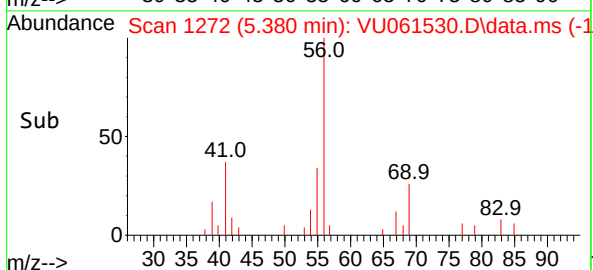
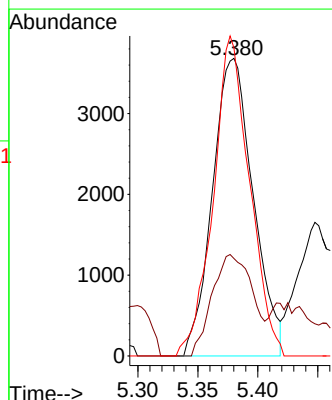
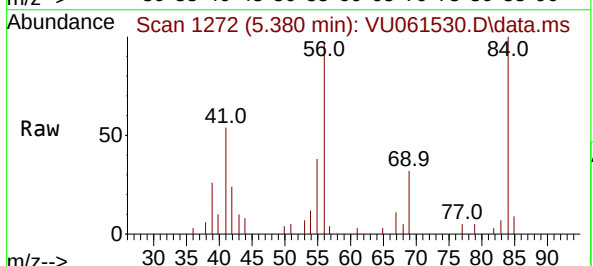
Instrument :
MSVOA_U
ClientSampleId :

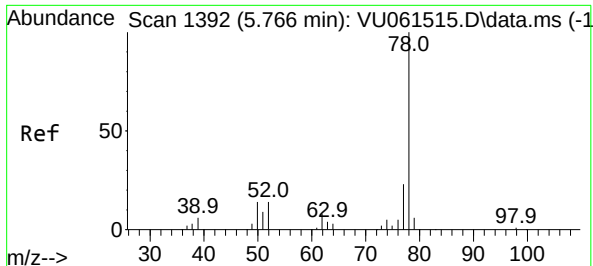
Tgt Ion: 62 Resp: 2719
Ion Ratio Lower Upper
62 100
98 29.4 7.4 11.0#



#30
Cyclohexane
Concen: 0.515 ug/L
RT: 5.380 min Scan# 1272
Delta R.T. 0.000 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

Tgt Ion: 56 Resp: 8707
Ion Ratio Lower Upper
56 100
69 33.7 25.8 38.6
84 95.5 73.9 110.9

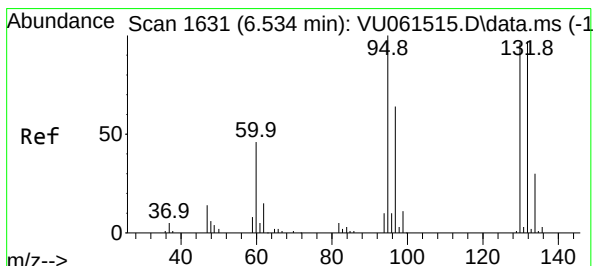
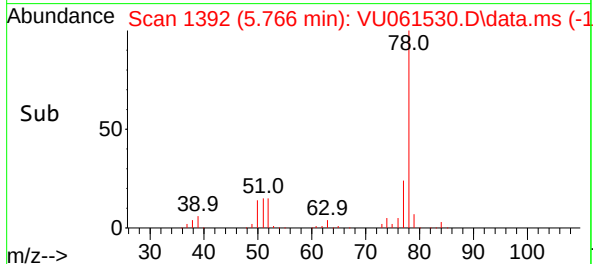
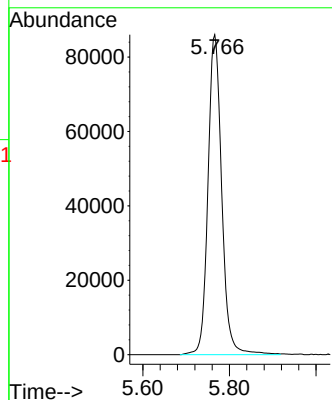
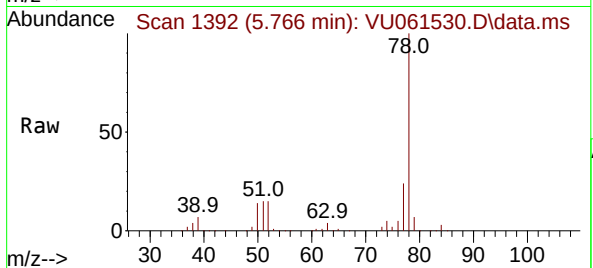




#33
Benzene
Concen: 4.454 ug/L
RT: 5.766 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

Instrument :
MSVOA_U
ClientSampleId :

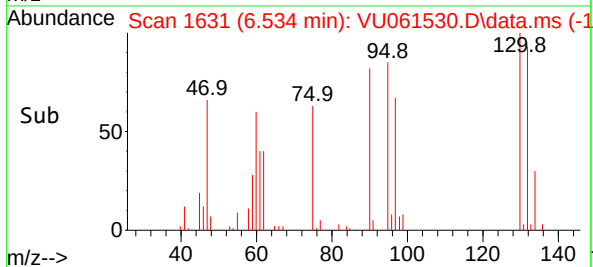
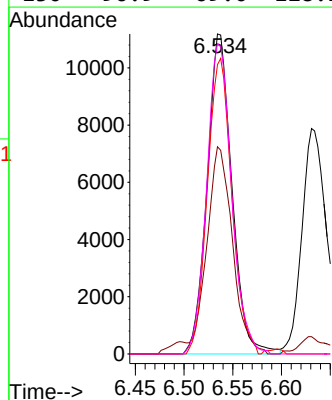
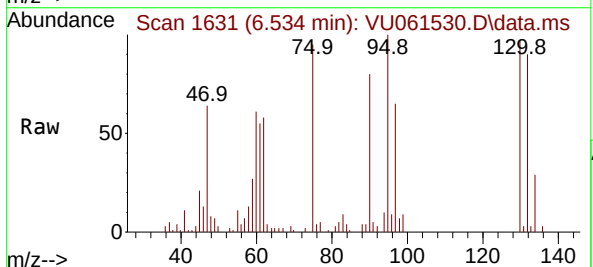
Tgt Ion: 78 Resp: 189737

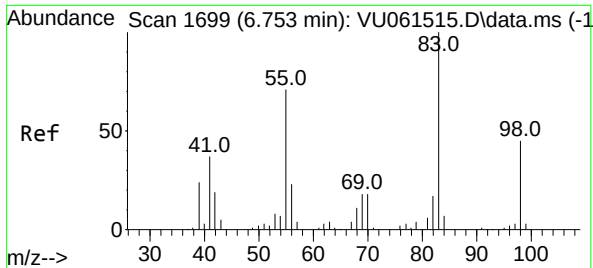


#34
Trichloroethene
Concen: 1.712 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

Tgt Ion: 95 Resp: 19839

Ion	Ratio	Lower	Upper
95	100		
97	64.8	46.1	85.7
132	90.4	66.1	122.7
130	96.9	69.0	128.2

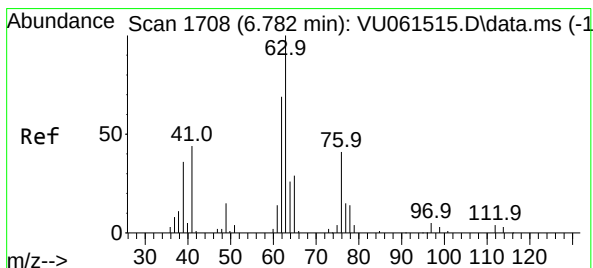
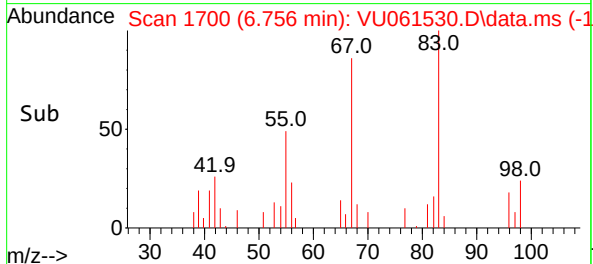
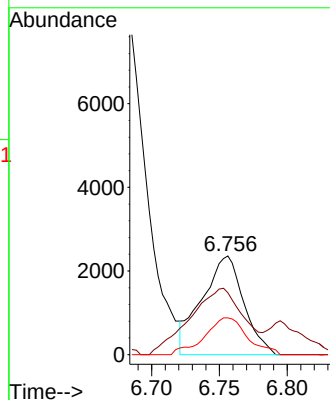
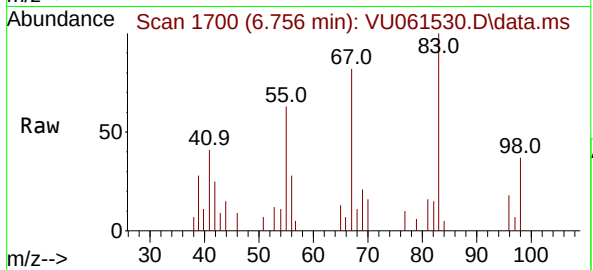




#35
Methylcyclohexane
Concen: 0.275 ug/L
RT: 6.756 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

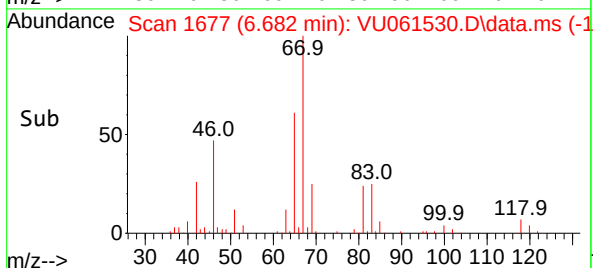
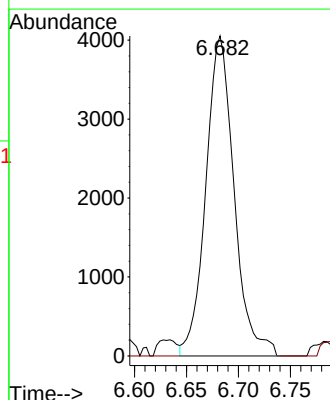
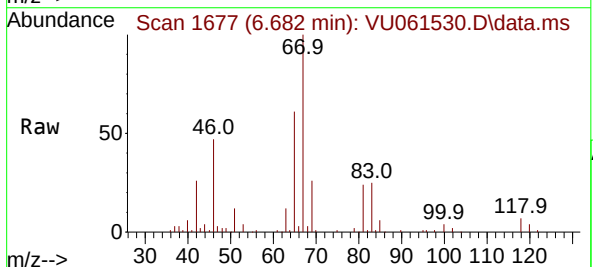
Instrument :
MSVOA_U
ClientSampleId :

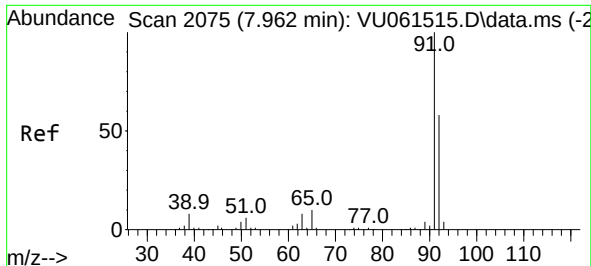
Tgt Ion: 83 Resp: 5065
Ion Ratio Lower Upper
83 100
55 87.1 55.9 83.9#
98 37.9 35.9 53.9



#37
1,2-Dichloropropane
Concen: 0.711 ug/L
RT: 6.682 min Scan# 1677
Delta R.T. -0.099 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

Tgt Ion: 63 Resp: 7675
Ion Ratio Lower Upper
63 100
112 2.9 3.0 4.4#





#42

Toluene

Concen: 8.941 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

Instrument :

MSVOA_U

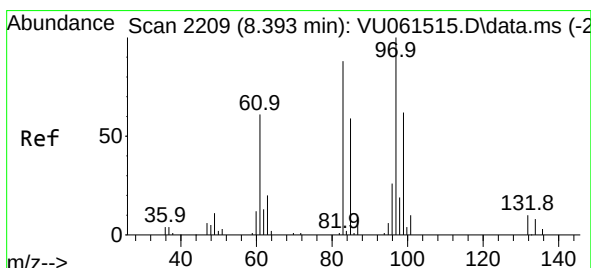
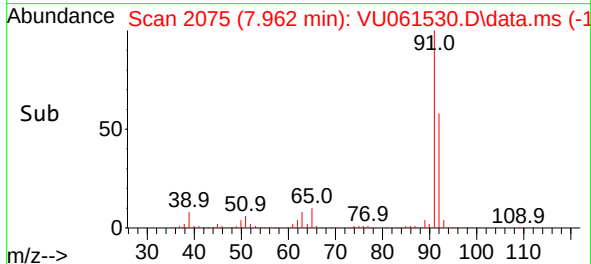
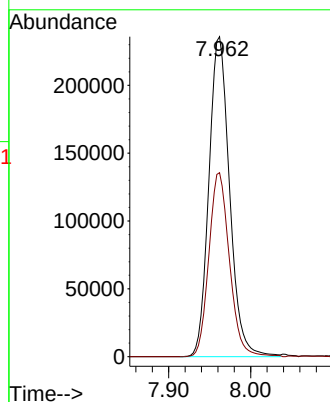
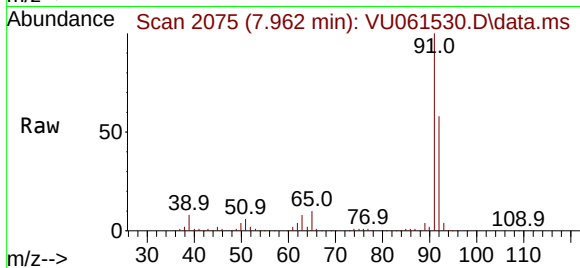
ClientSampleId :

Tgt Ion: 91 Resp: 413616

Ion Ratio Lower Upper

91 100

92 57.5 40.3 74.8



#45

1,1,2-Trichloroethane

Concen: 0.331 ug/L

RT: 8.361 min Scan# 2199

Delta R.T. -0.032 min

Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

Tgt Ion: 97 Resp: 2570

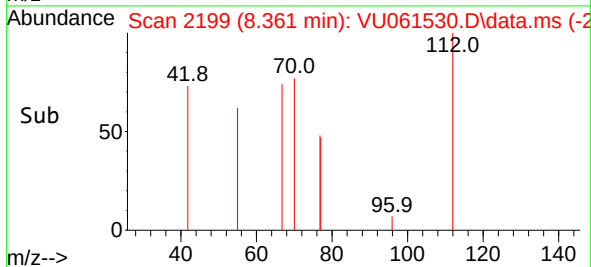
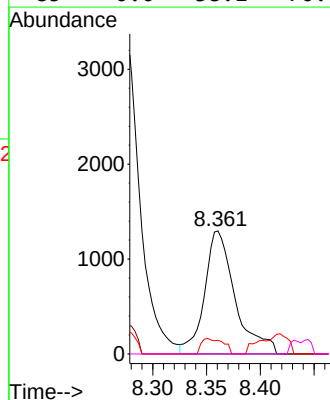
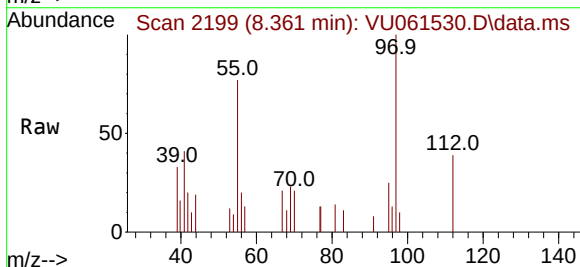
Ion Ratio Lower Upper

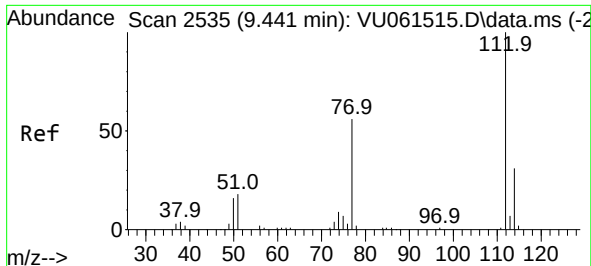
97 100

99 0.0 44.1 81.9#

83 11.1 61.2 113.6#

85 0.0 38.1 70.7#

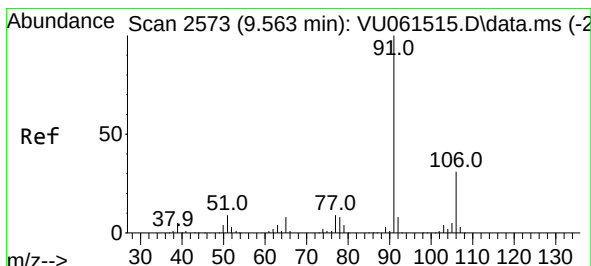
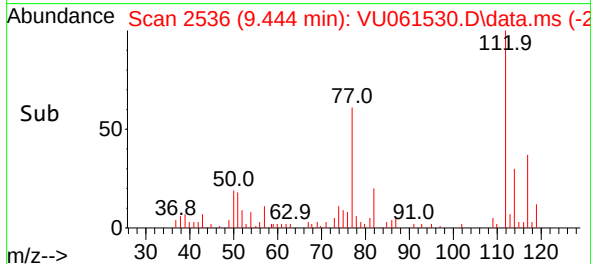
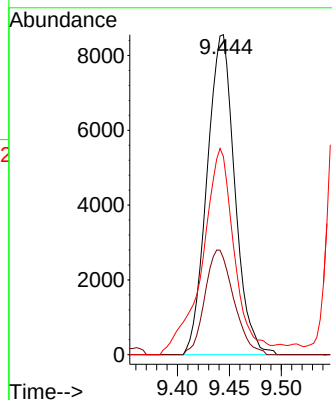
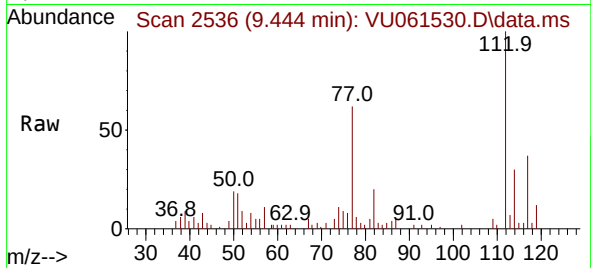




#51
Chlorobenzene
Concen: 0.545 ug/L
RT: 9.444 min Scan# 2535
Delta R.T. 0.003 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

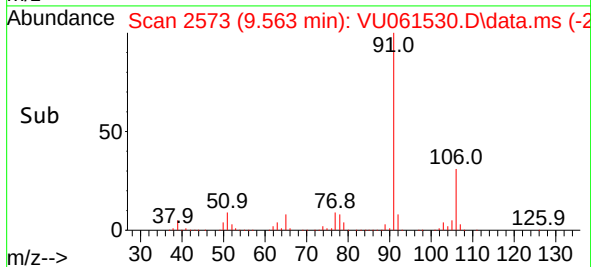
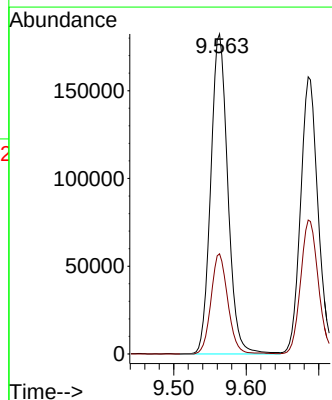
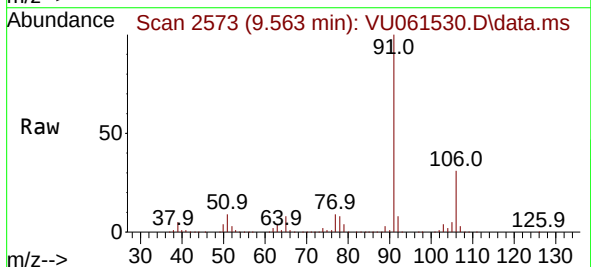
Instrument :
MSVOA_U
ClientSampleId :

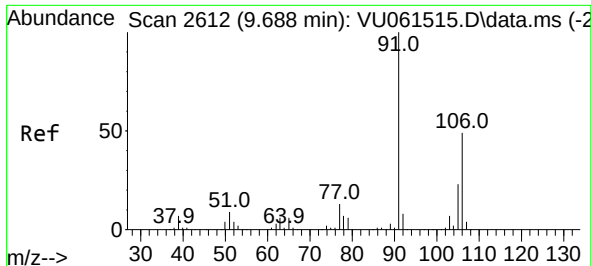
Tgt Ion:112 Resp: 15929
Ion Ratio Lower Upper
112 100
114 30.2 22.9 42.5
77 61.9 47.1 70.7



#52
Ethylbenzene
Concen: 5.860 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. 0.000 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

Tgt Ion: 91 Resp: 298217
Ion Ratio Lower Upper
91 100
106 31.3 22.0 41.0

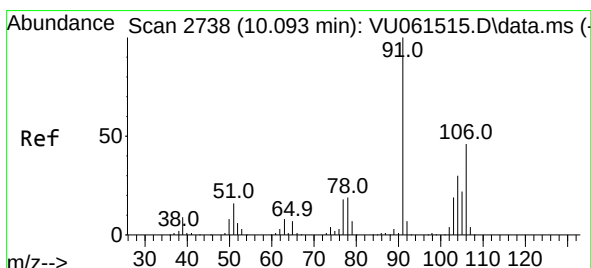
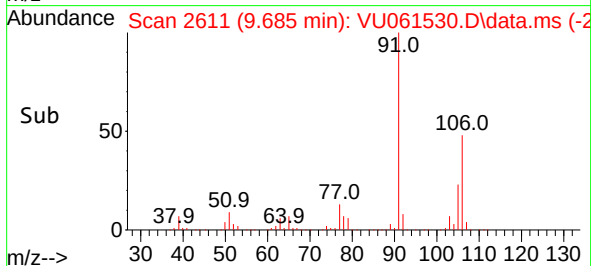
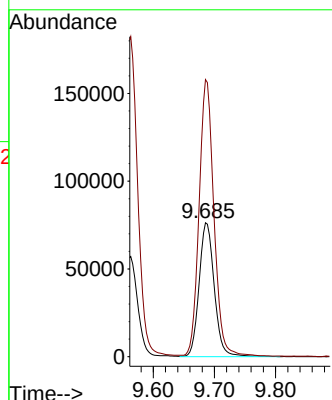
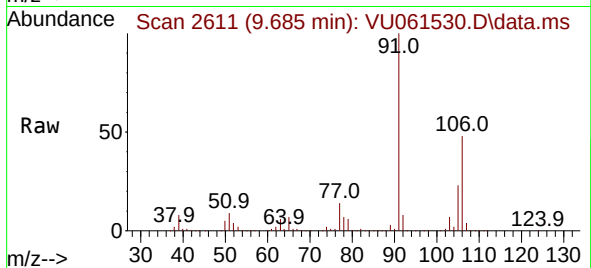




#53
m,p-Xylene
Concen: 6.788 ug/L
RT: 9.685 min Scan# 2612
Delta R.T. -0.003 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

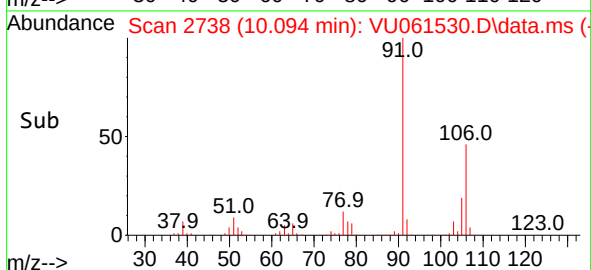
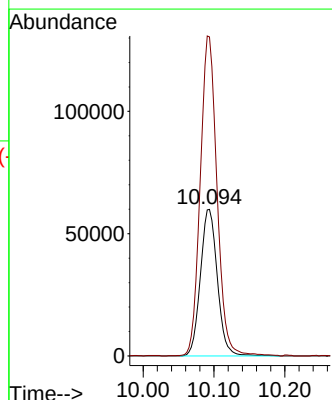
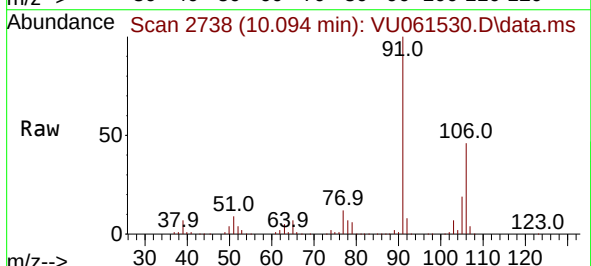
Instrument :
MSVOA_U
ClientSampleId :

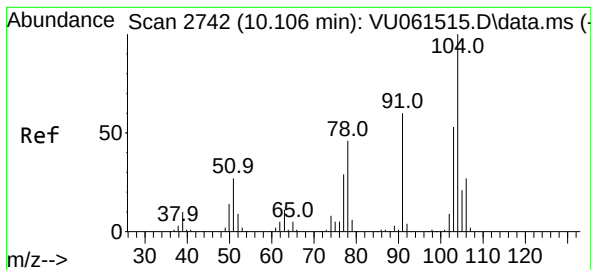
Tgt Ion:106 Resp: 131597
Ion Ratio Lower Upper
106 100
91 207.0 145.7 270.7



#54
o-Xylene
Concen: 5.197 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU061530.D
Acq: 07 Nov 2024 19:09

Tgt Ion:106 Resp: 99431
Ion Ratio Lower Upper
106 100
91 217.6 148.8 276.4





#55

Styrene

Concen: 0.196 ug/L

RT: 10.090 min Scan# 21

Delta R.T. -0.016 min

Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

Instrument :

MSVOA_U

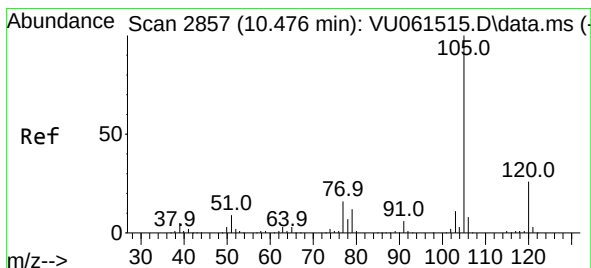
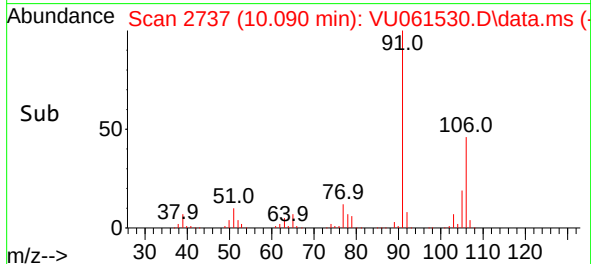
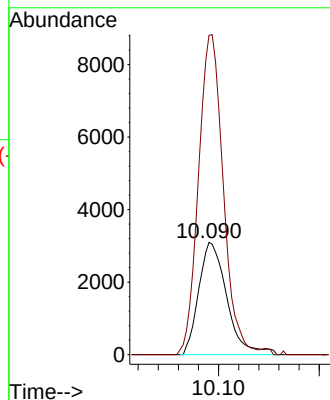
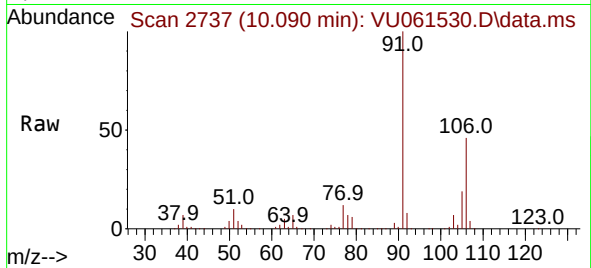
ClientSampleId :

Tgt Ion:104 Resp: 6020

Ion Ratio Lower Upper

104 100

78 284.4 32.3 59.9#



#60

Isopropylbenzene

Concen: 0.627 ug/L

RT: 10.476 min Scan# 2857

Delta R.T. 0.000 min

Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

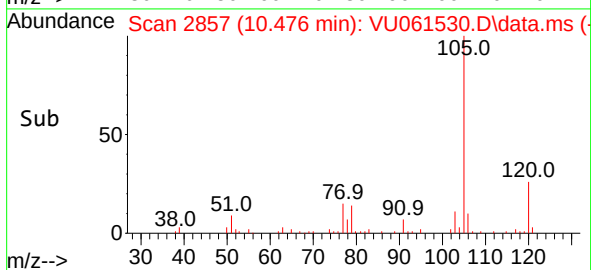
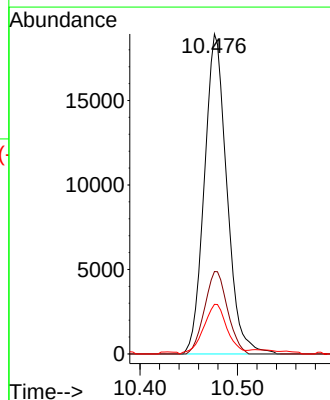
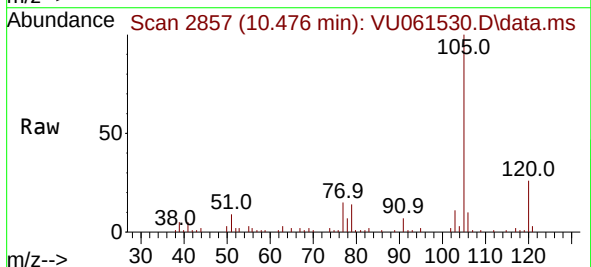
Tgt Ion:105 Resp: 30339

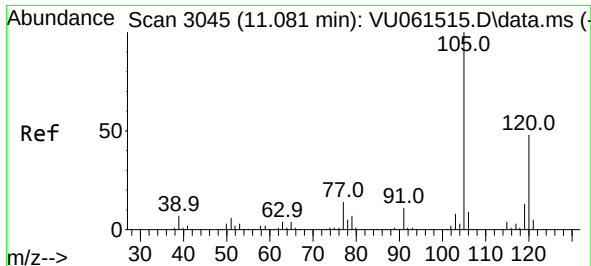
Ion Ratio Lower Upper

105 100

120 26.3 21.2 31.8

77 16.2 12.6 19.0





#62

1,3,5-Trimethylbenzene

Concen: 0.146 ug/L

RT: 11.084 min Scan# 3045

Delta R.T. 0.003 min

Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

Instrument :

MSVOA_U

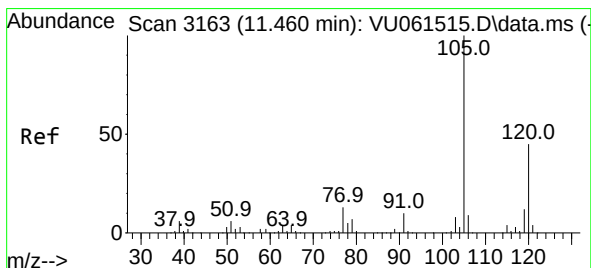
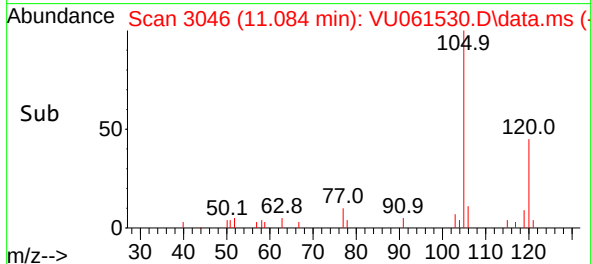
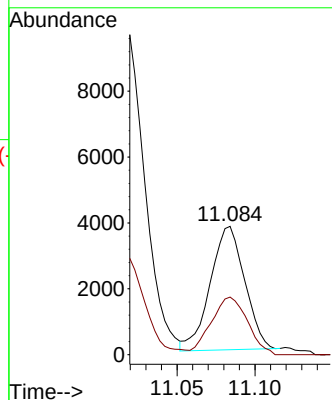
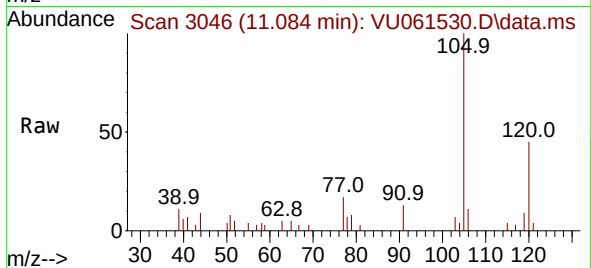
ClientSampleId :

Tgt Ion:105 Resp: 5770

Ion Ratio Lower Upper

105 100

120 49.0 38.7 58.1



#63

1,2,4-Trimethylbenzene

Concen: 0.528 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. 0.000 min

Lab File: VU061530.D

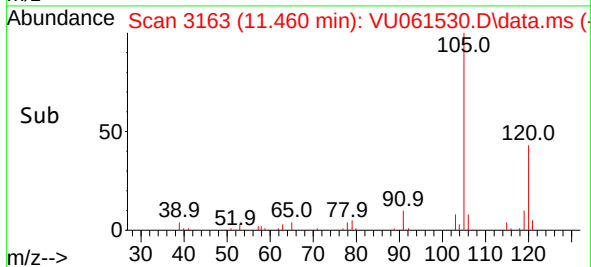
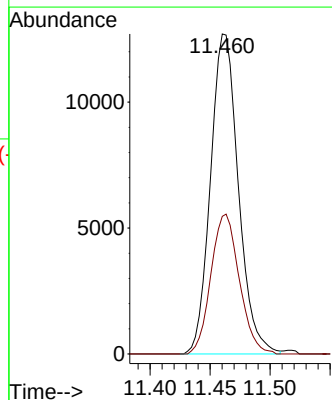
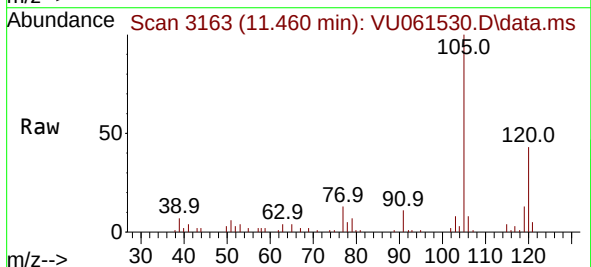
Acq: 07 Nov 2024 19:09

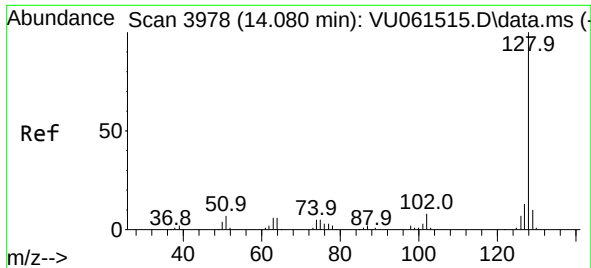
Tgt Ion:105 Resp: 20543

Ion Ratio Lower Upper

105 100

120 44.4 35.4 53.0





#71

Naphthalene

Concen: 0.281 ug/L

RT: 14.090 min Scan# 3981

Delta R.T. 0.010 min

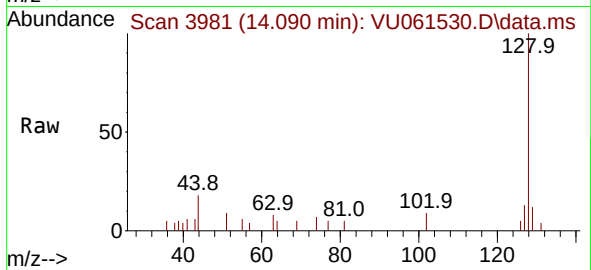
Lab File: VU061530.D

Acq: 07 Nov 2024 19:09

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:128 Resp: 4992

Ion Ratio Lower Upper

128 100

129 12.0 9.0 13.4

127 11.0 10.0 15.0

