

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031921\
 Data File : VX021288.D
 Acq On : 18 Mar 2021 19:40
 Operator : JC/MD
 Sample : M1716-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 210317059-01-VOA

Quant Time: Mar 19 02:53:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X031221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 12 12:55:27 2021
 Response via : Initial Calibration

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

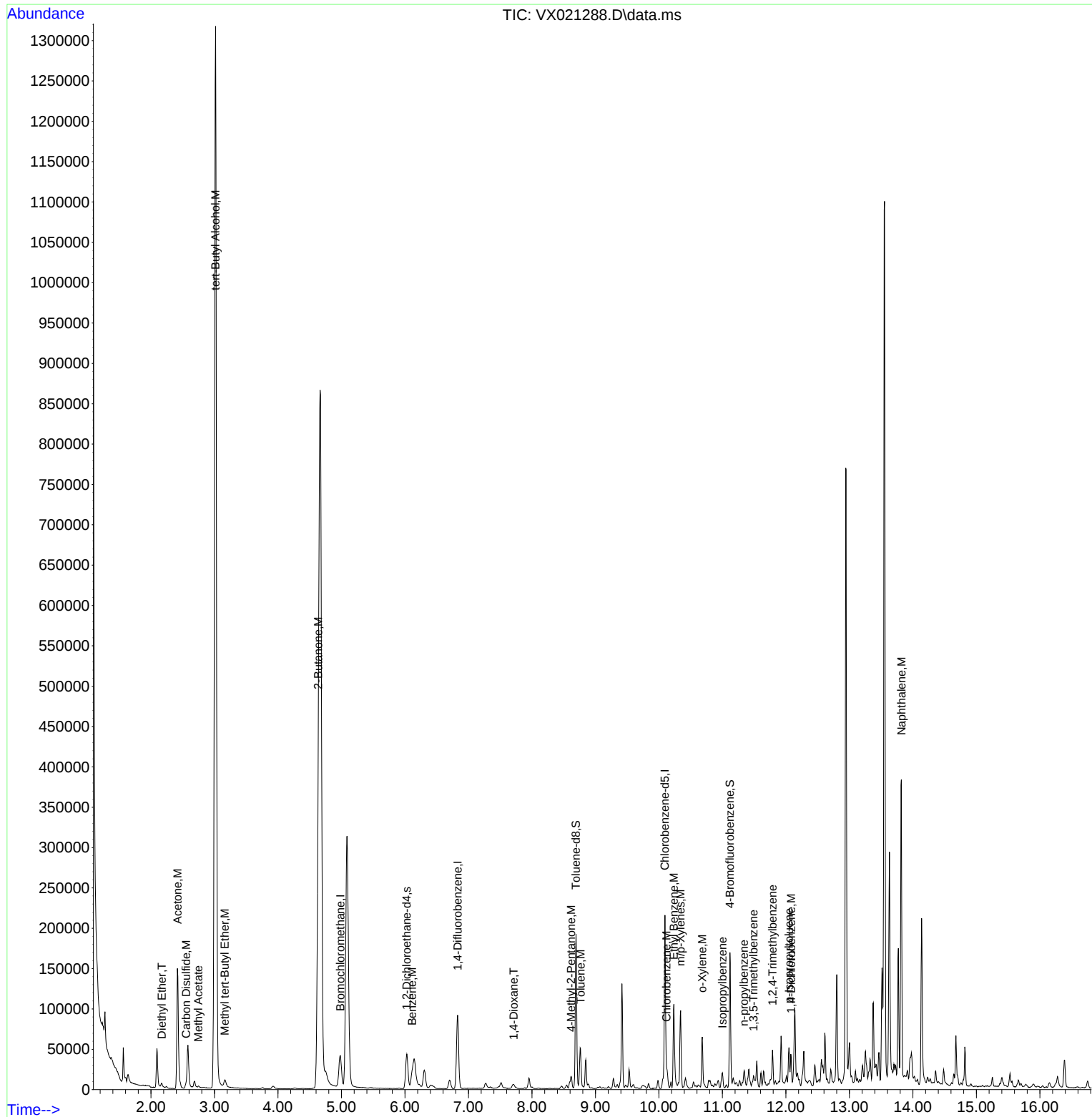
Internal Standards						
1) Bromochloromethane	4.982	128	15555	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	86574	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	79825	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	42574	29.74	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.13%		
60) 4-Bromofluorobenzene	11.118	95	42980	29.45	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.17%		
63) Toluene-d8	8.694	98	105952	29.26	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.53%		
Target Compounds						
8) Diethyl Ether	2.170	74	1633	2.93	ug/l	# 18
12) Methyl Acetate	2.746	43	1860	1.28	ug/l	# 87
15) Acetone	2.417	58	41695m	284.60	ug/l	
16) Carbon Disulfide	2.552	76	4997	1.97	ug/l	98
23) tert-Butyl Alcohol	3.017	59	1475905	6073.01	ug/l	# 100
24) Methyl tert-Butyl Ether	3.164	73	8645	2.63	ug/l	# 67
30) 2-Butanone	4.635	43	259819	322.13	ug/l	# 89
34) Benzene	6.111	78	18517	4.48	ug/l	99
45) 1,4-Dioxane	7.712	88	2966	118.72	ug/l	# 84
58) 4-Methyl-2-Pentanone	8.618	43	10637	6.58	ug/l	# 79
62) Toluene	8.765	91	25354	5.73	ug/l	98
64) Chlorobenzene	10.118	112	4183	1.53	ug/l	93
66) Ethyl Benzene	10.235	91	56856	11.17	ug/l	98
67) m/p-Xylenes	10.341	106	19946	10.89	ug/l	93
68) o-Xylene	10.683	106	12288	6.93	ug/l	94
70) Isopropylbenzene	11.000	105	7171	1.48	ug/l	97
74) n-propylbenzene	11.341	91	3435	0.60	ug/l	95
76) 1,3,5-Trimethylbenzene	11.489	105	4414	1.07	ug/l	100
80) 1,2,4-Trimethylbenzene	11.789	105	16729	4.04	ug/l	98
82) p-Isopropyltoluene	12.047	119	13372	3.20	ug/l	91
84) 1,4-Dichlorobenzene	12.083	146	9835	4.77	ug/l	97
91) Naphthalene	13.818	128	206076	50.26	ug/l	99

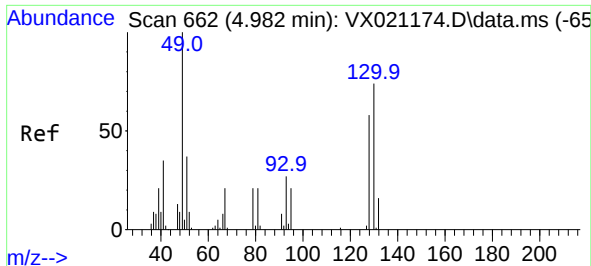
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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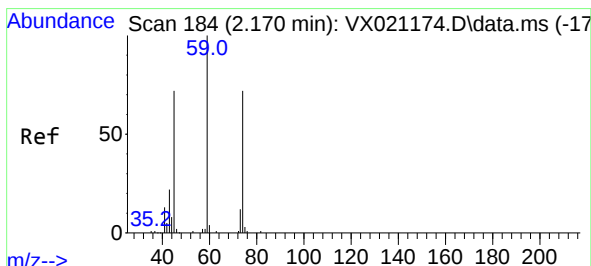
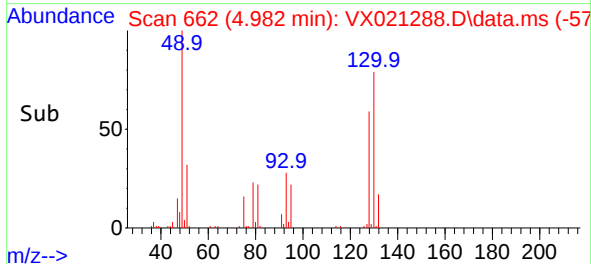
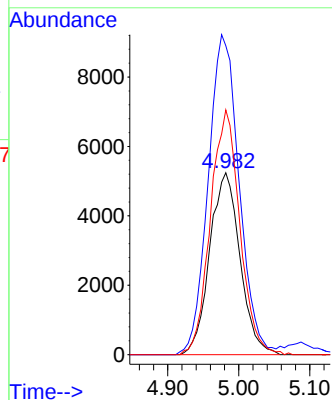
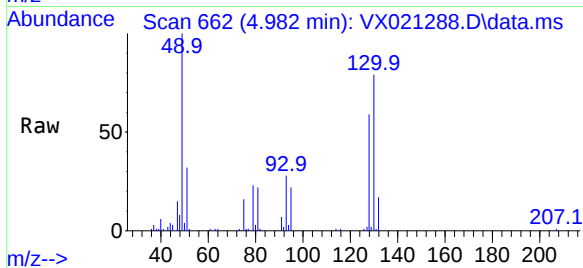




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 4.982 min Scan# 662
Delta R.T. -0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

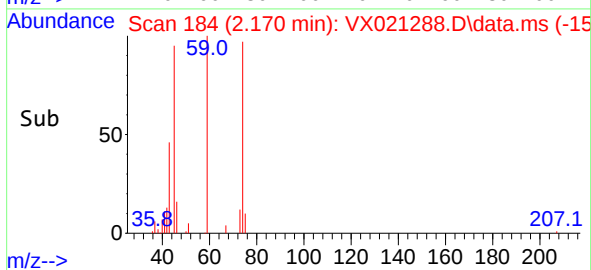
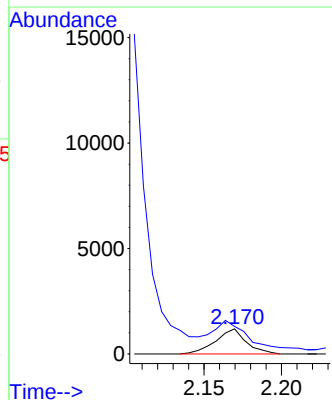
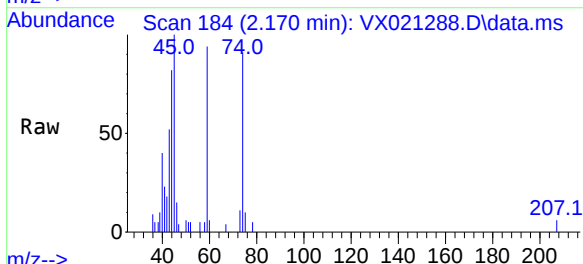
Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

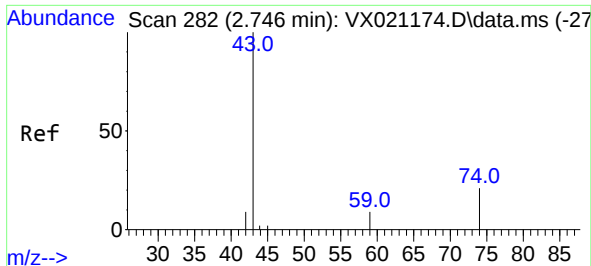
Tgt Ion:	128	Resp:	15555
Ion	Ratio	Lower	Upper
128	100		
49	179.6	0.0	367.5
130	130.4	0.0	318.8



#8
Diethyl Ether
Concen: 2.93 ug/l
RT: 2.170 min Scan# 184
Delta R.T. -0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion:	74	Resp:	1633
Ion	Ratio	Lower	Upper
74	100		
45	161.6	17.3	155.7#

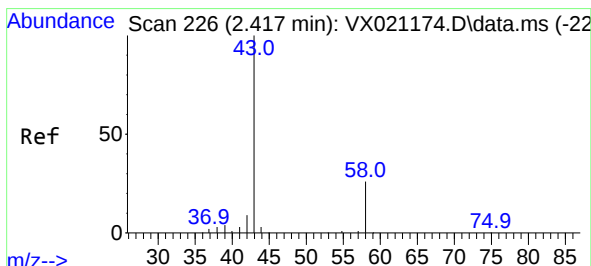
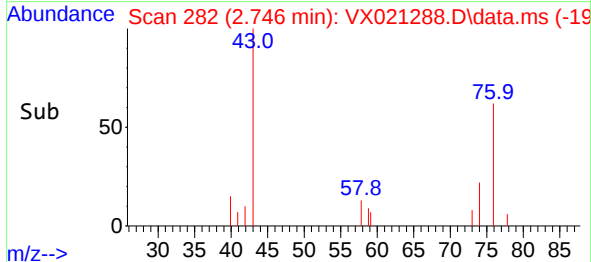
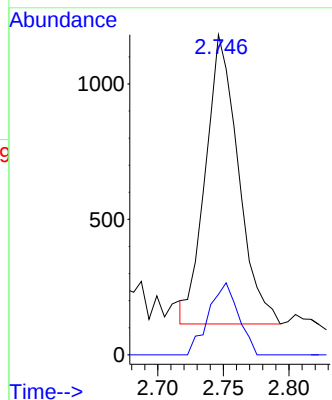
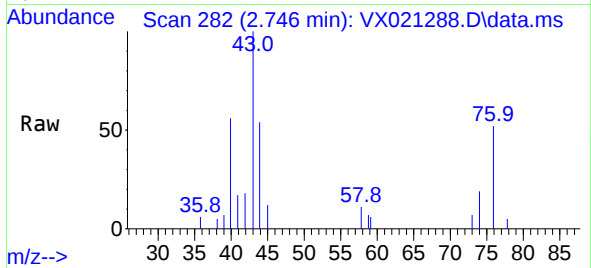




#12
Methyl Acetate
Concen: 1.28 ug/l
RT: 2.746 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

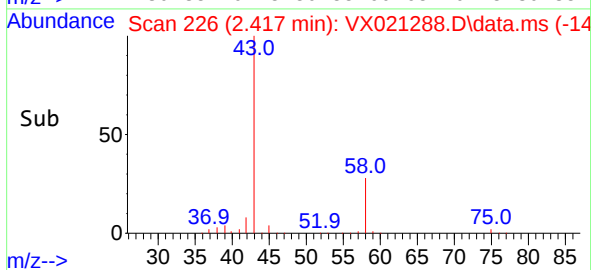
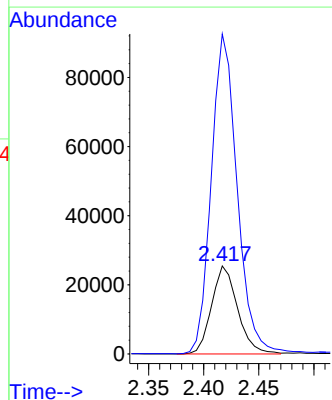
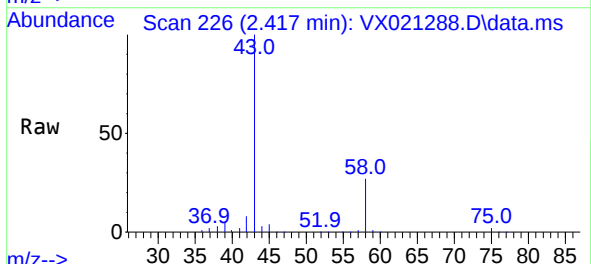
Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

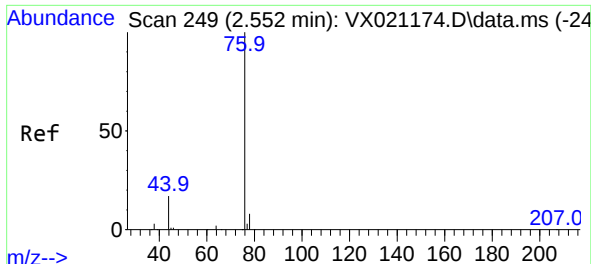
Tgt Ion: 43 Resp: 1860
Ion Ratio Lower Upper
43 100
74 21.8 22.8 34.2#



#15
Acetone
Concen: 284.60 ug/l m
RT: 2.417 min Scan# 226
Delta R.T. -0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion: 58 Resp: 41695
Ion Ratio Lower Upper
58 100
43 363.9 232.6 348.8#

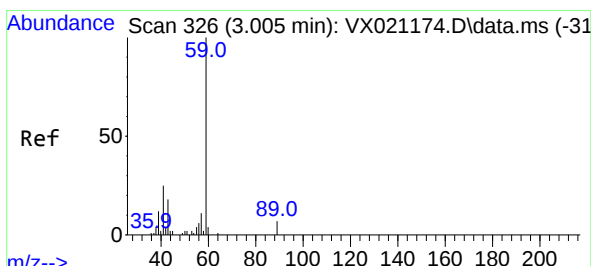
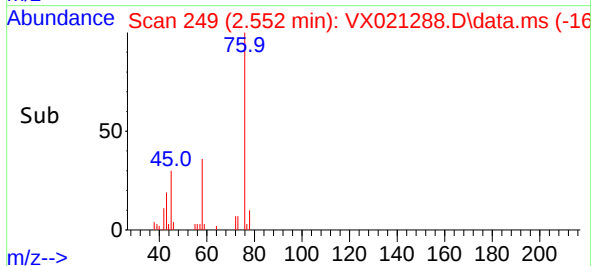
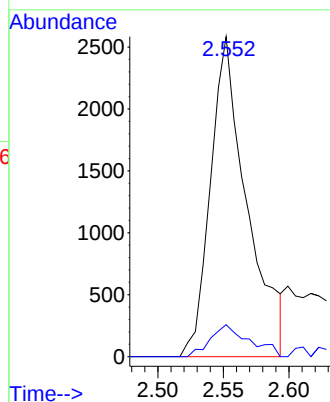
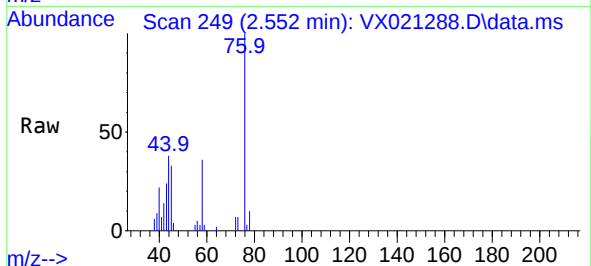




#16
Carbon Disulfide
Concen: 1.97 ug/l
RT: 2.552 min Scan# 249
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

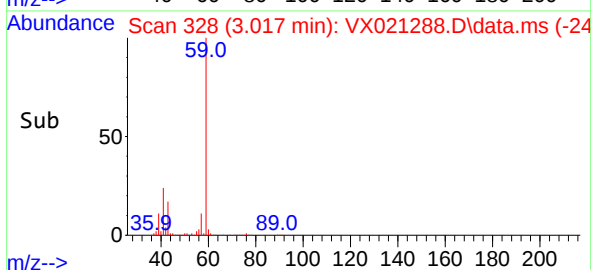
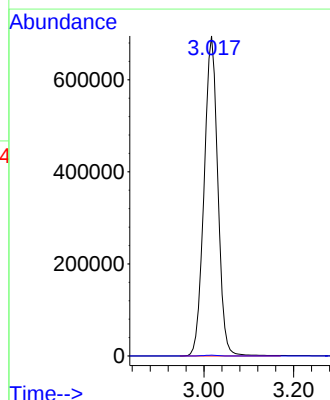
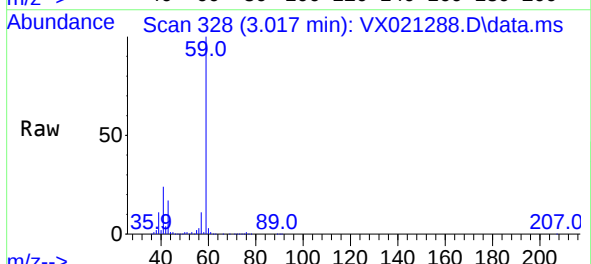
Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

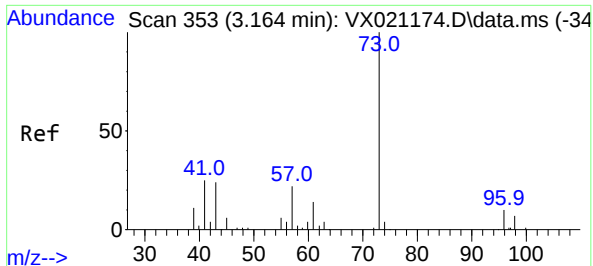
Tgt Ion: 76 Resp: 4997
Ion Ratio Lower Upper
76 100
78 10.0 7.4 11.0



#23
tert-Butyl Alcohol
Concen: 6073.01 ug/l
RT: 3.017 min Scan# 328
Delta R.T. 0.012 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion: 59 Resp: 1475905
Ion Ratio Lower Upper
59 100
52 0.2 0.1 0.1#

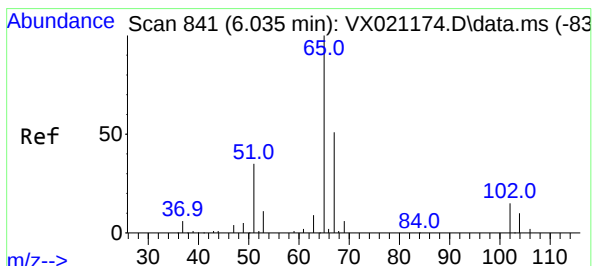
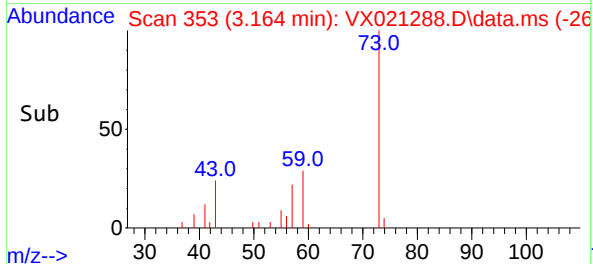
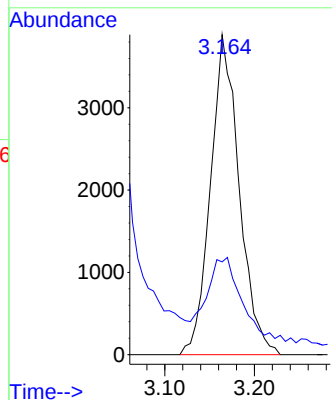
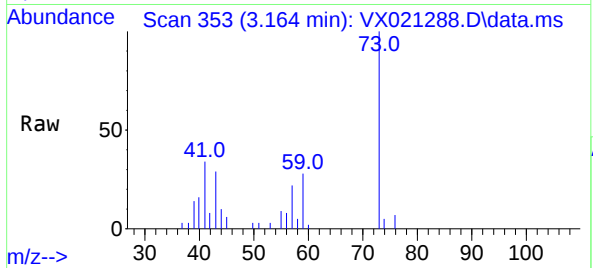




#24
Methyl tert-Butyl Ether
Concen: 2.63 ug/l
RT: 3.164 min Scan# 353
Delta R.T. -0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

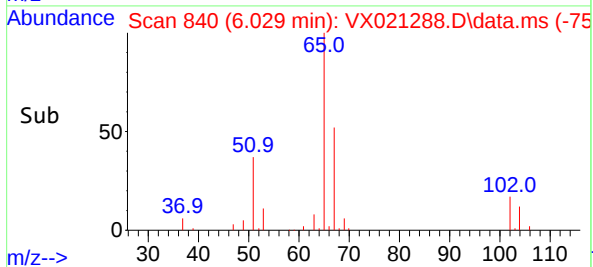
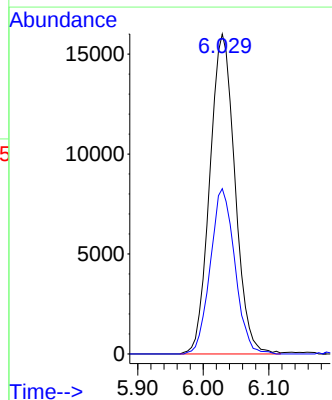
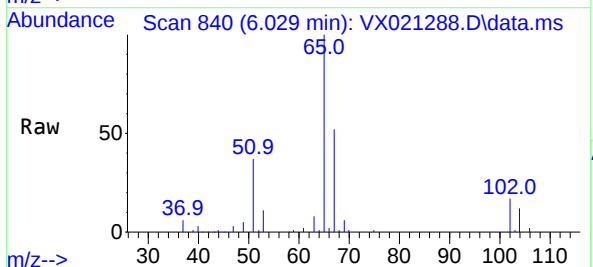
Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

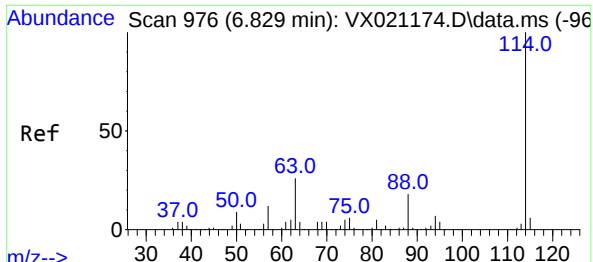
Tgt Ion: 73 Resp: 8645
Ion Ratio Lower Upper
73 100
43 33.5 14.9 22.3#



#27
1,2-Dichloroethane-d4
Concen: 29.74 ug/l
RT: 6.029 min Scan# 840
Delta R.T. -0.006 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion: 65 Resp: 42574
Ion Ratio Lower Upper
65 100
67 50.5 41.9 62.9



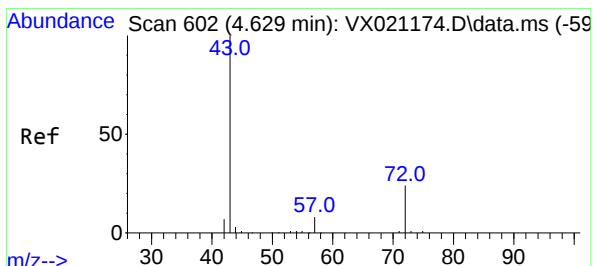
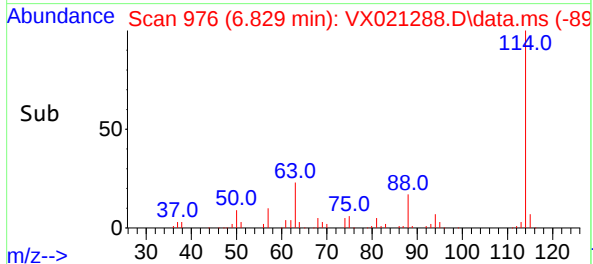
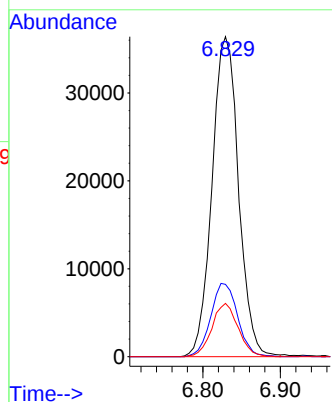
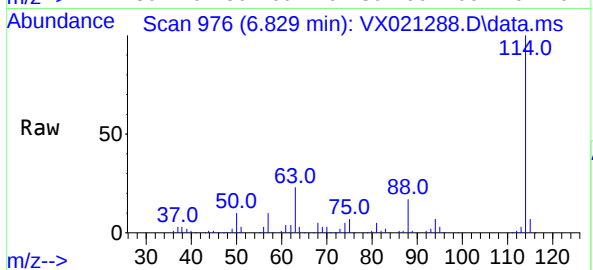


#28
1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

Tgt Ion:114 Resp: 86574

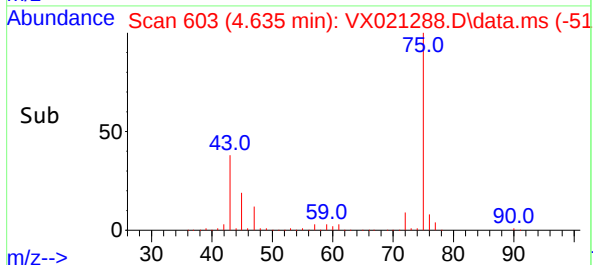
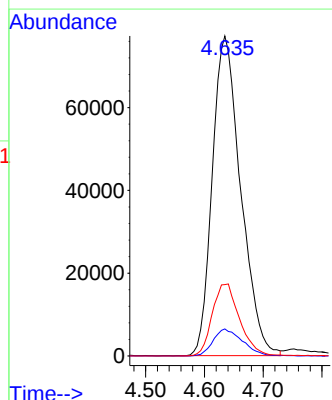
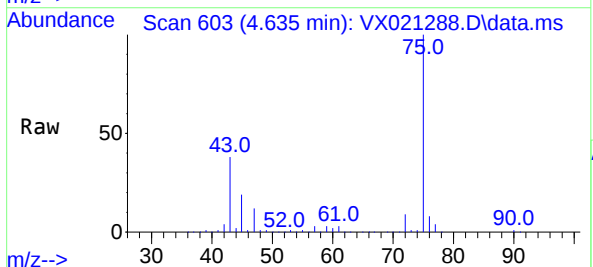
Ion	Ratio	Lower	Upper
114	100		
63	23.3	16.2	24.2
88	16.5	13.0	19.6

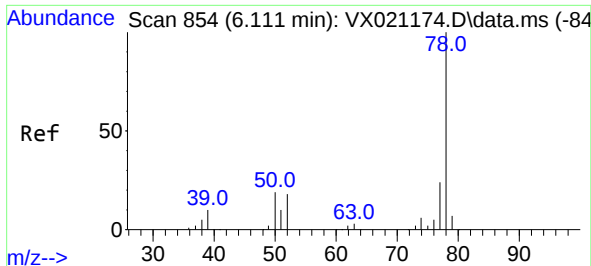


#30
2-Butanone
Concen: 322.13 ug/l
RT: 4.635 min Scan# 603
Delta R.T. 0.006 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion: 43 Resp: 259819

Ion	Ratio	Lower	Upper
43	100		
57	8.7	7.2	10.8
72	21.7	23.7	35.5



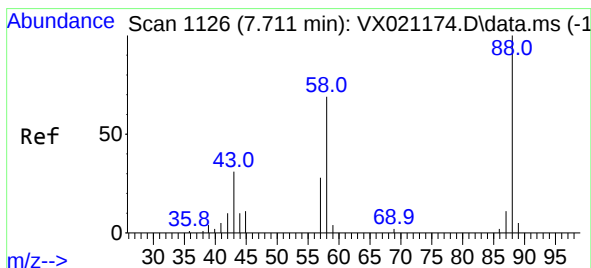
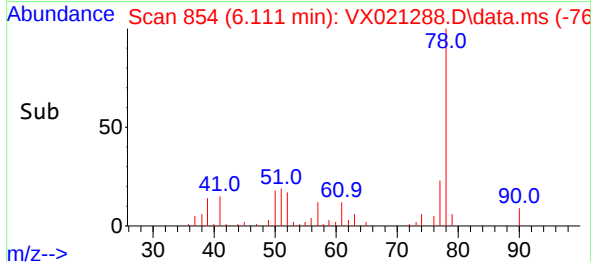
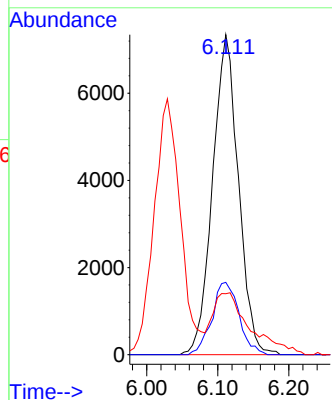
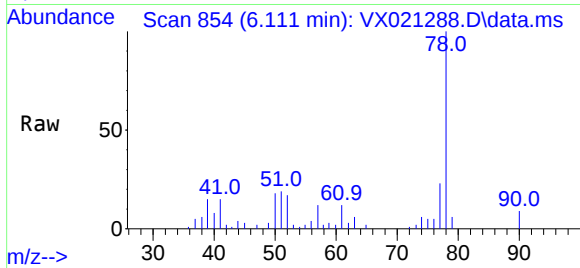


#34
Benzene
Concen: 4.48 ug/l
RT: 6.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Instrument :
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Tgt Ion: 78 Resp: 18517

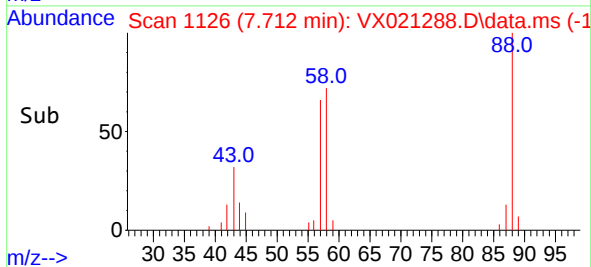
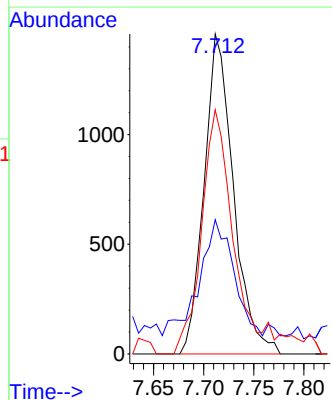
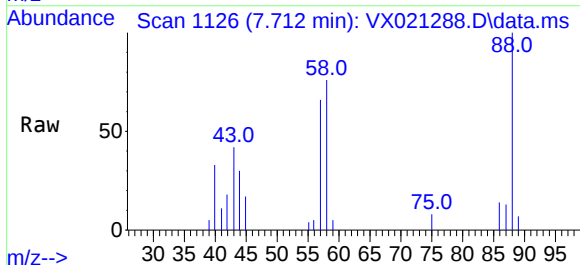
Ion	Ratio	Lower	Upper
78	100		
77	22.6	19.0	28.4
51	15.8	12.5	18.7

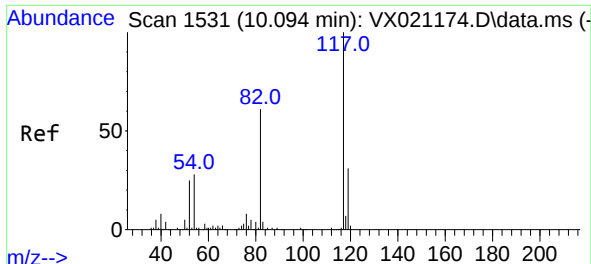


#45
1,4-Dioxane
Concen: 118.72 ug/l
RT: 7.712 min Scan# 1126
Delta R.T. 0.001 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion: 88 Resp: 2966

Ion	Ratio	Lower	Upper
88	100		
43	38.7	22.2	33.2#
58	78.9	53.9	80.9

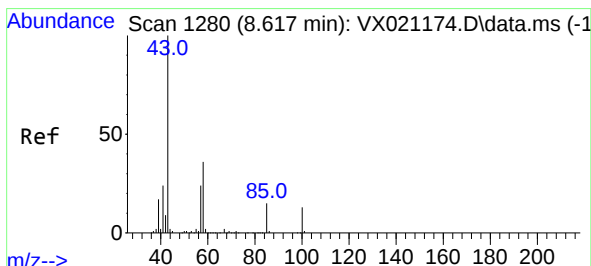
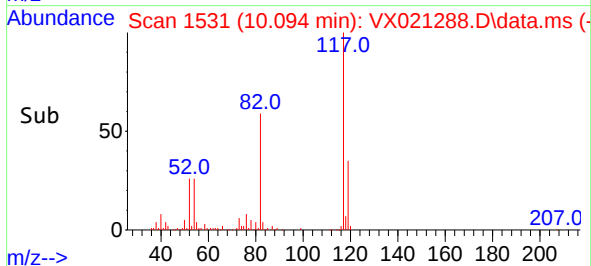
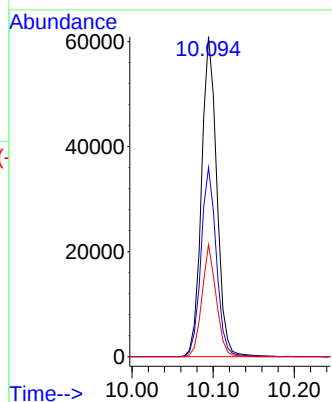
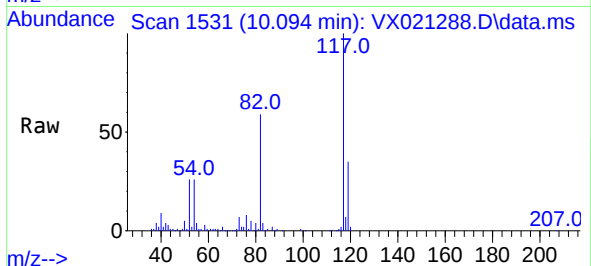




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

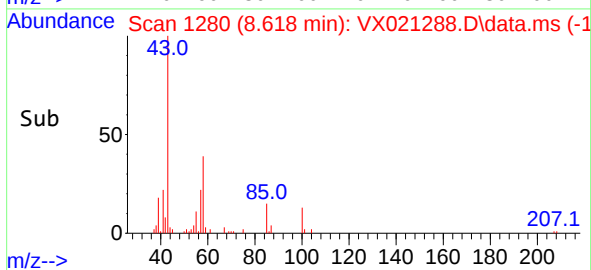
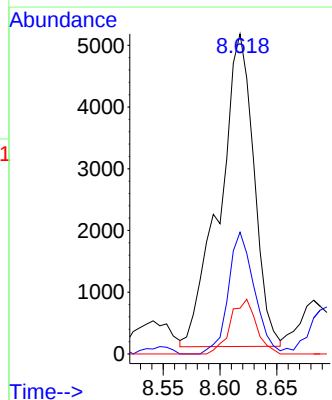
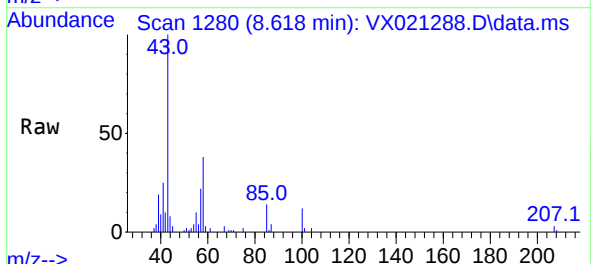
Instrument :
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210317059-01-VOA

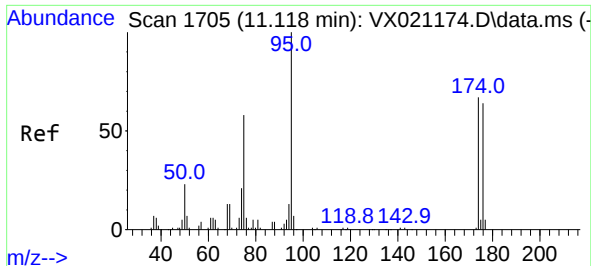
Tgt Ion:	117	Resp:	79825
Ion Ratio	Lower	Upper	
117	100		
82	59.3	45.0	67.6
119	32.5	25.6	38.4



#58
4-Methyl-2-Pentanone
Concen: 6.58 ug/l
RT: 8.618 min Scan# 1280
Delta R.T. 0.001 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion:	43	Resp:	10637
Ion Ratio	Lower	Upper	
43	100		
58	29.5	35.2	52.8#
85	13.1	16.8	25.2#

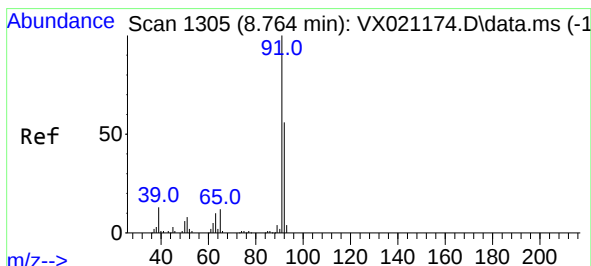
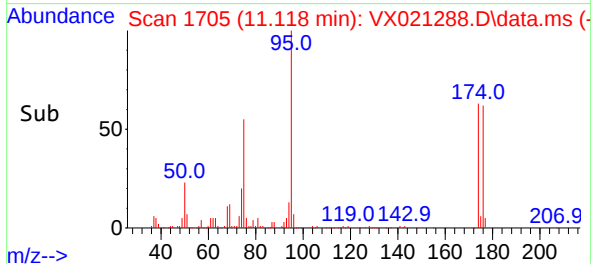
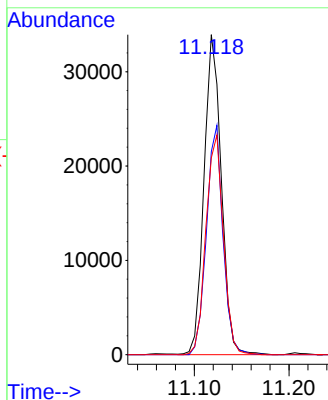
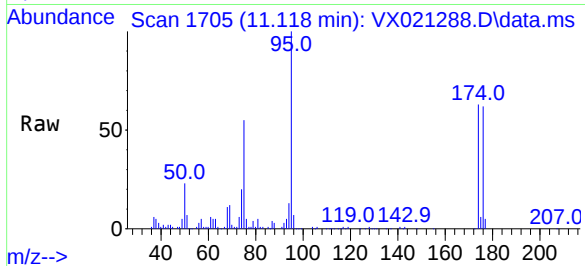




#60
4-Bromofluorobenzene
Concen: 29.45 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

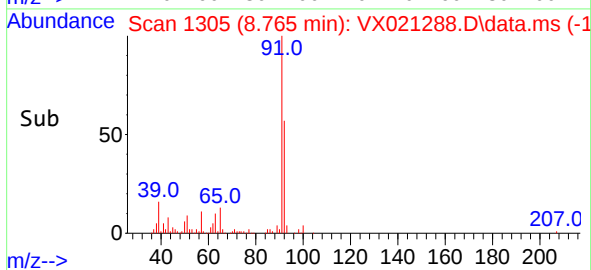
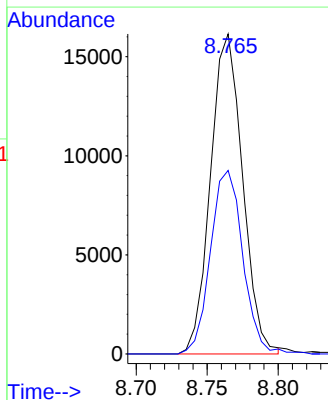
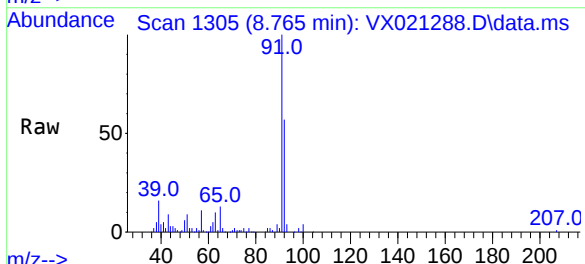
Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

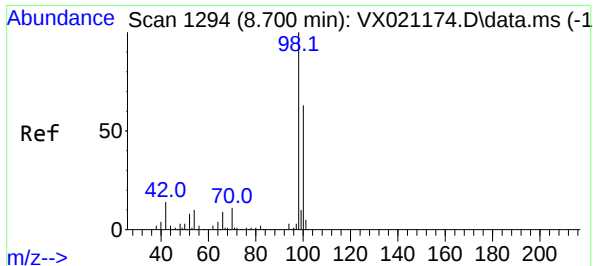
Tgt Ion:	95	Resp:	42980
Ion	Ratio	Lower	Upper
95	100		
174	68.5	63.0	94.4
176	69.5	59.9	89.9



#62
Toluene
Concen: 5.73 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion:	91	Resp:	25354
Ion	Ratio	Lower	Upper
91	100		
92	57.8	47.2	70.8



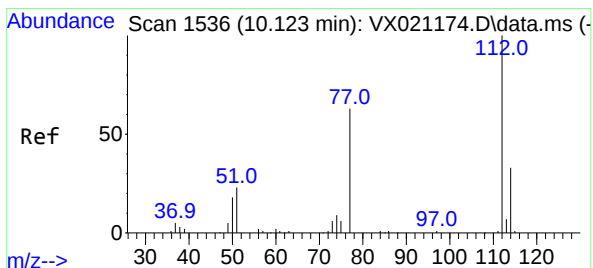
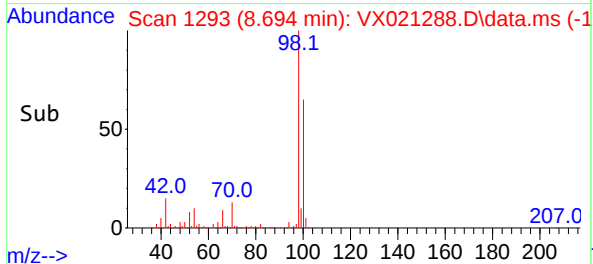
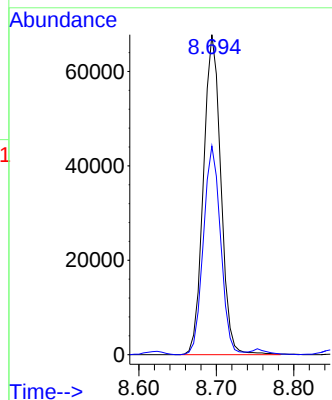
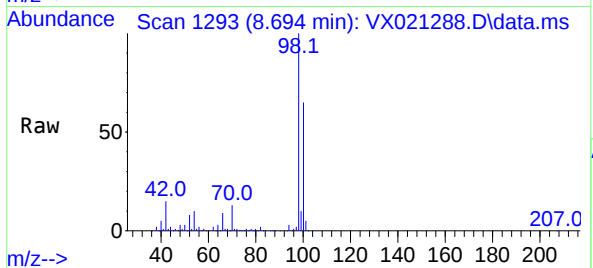


#63

Toluene-d8
Concen: 29.26 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. -0.006 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

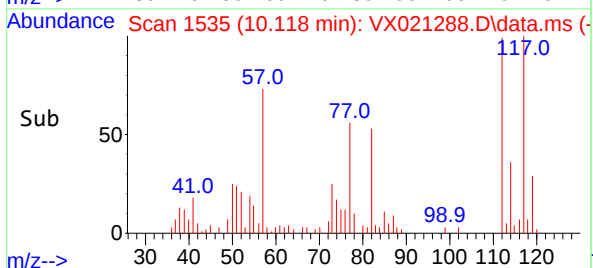
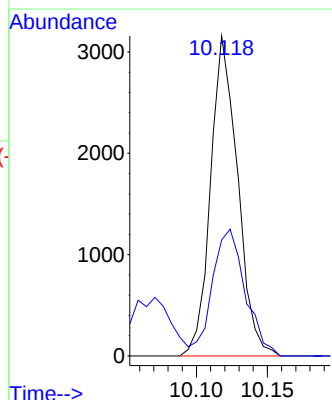
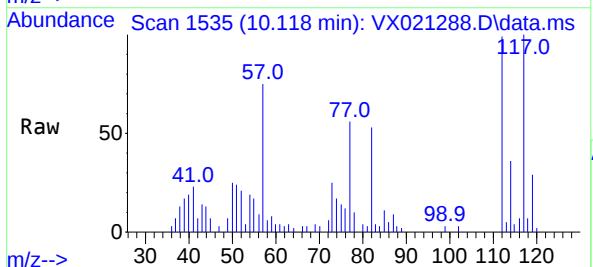
Tgt Ion: 98 Resp: 105952
Ion Ratio Lower Upper
98 100
100 64.4 53.0 79.4

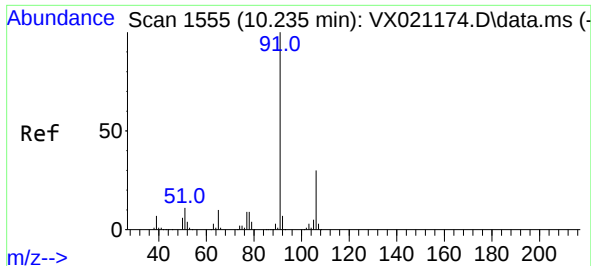


#64

Chlorobenzene
Concen: 1.53 ug/l
RT: 10.118 min Scan# 1535
Delta R.T. -0.006 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion: 112 Resp: 4183
Ion Ratio Lower Upper
112 100
114 36.3 25.7 38.5

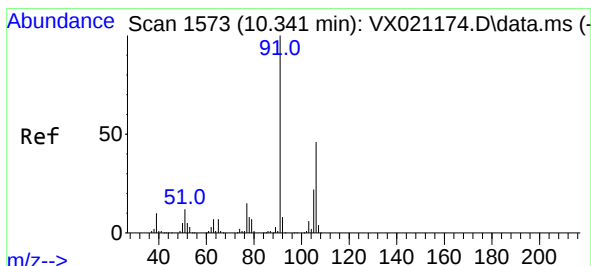
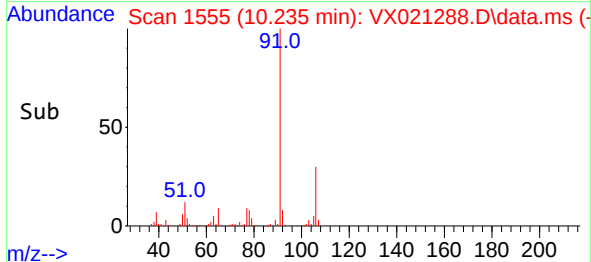
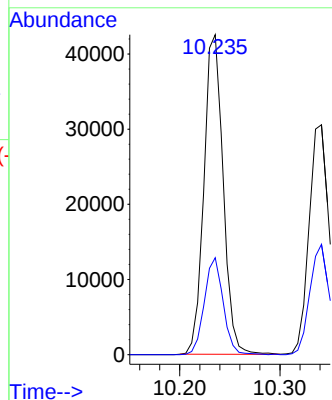
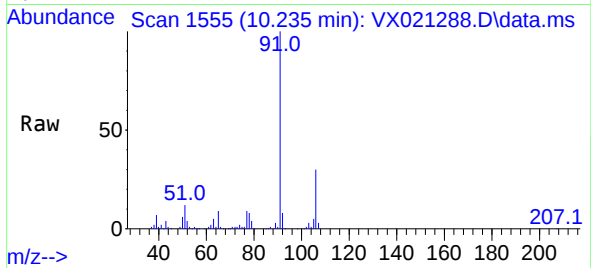




#66
Ethyl Benzene
Concen: 11.17 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

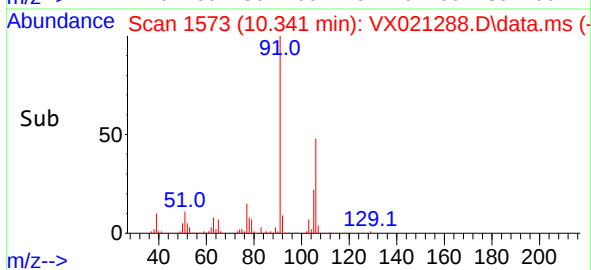
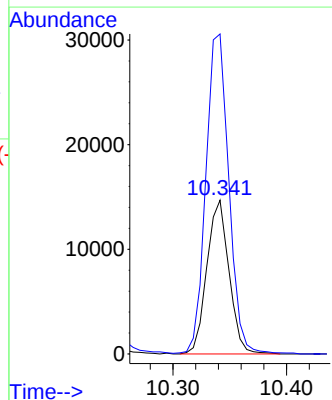
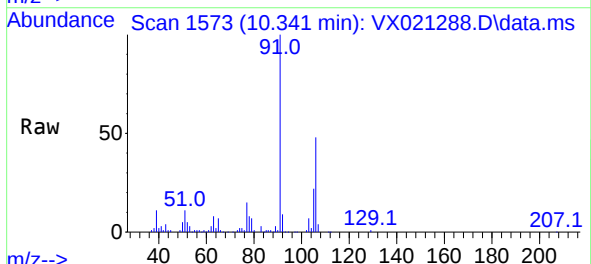
Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

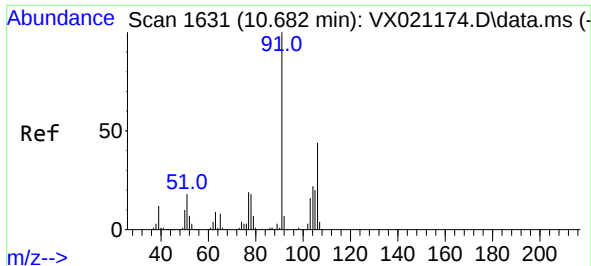
Tgt Ion: 91 Resp: 56856
Ion Ratio Lower Upper
91 100
106 30.3 25.0 37.4



#67
m/p-Xylenes
Concen: 10.89 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion:106 Resp: 19946
Ion Ratio Lower Upper
106 100
91 215.8 164.0 246.0

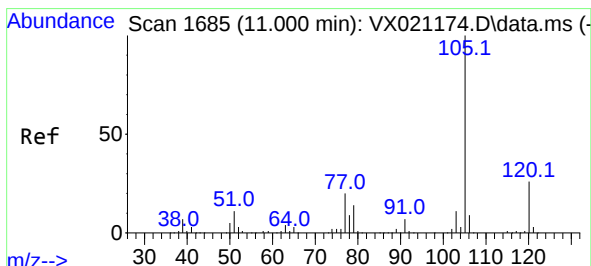
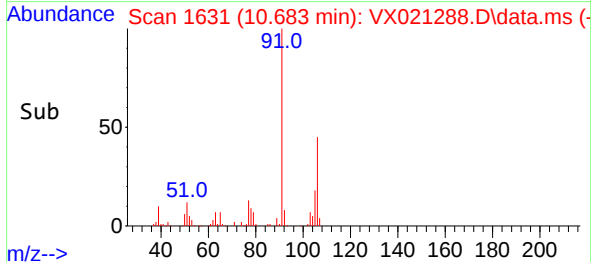
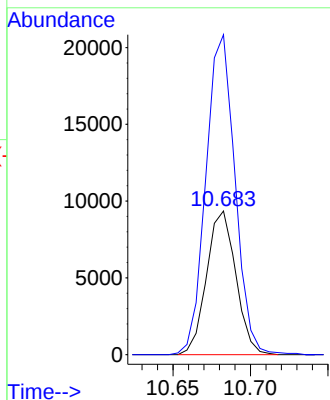
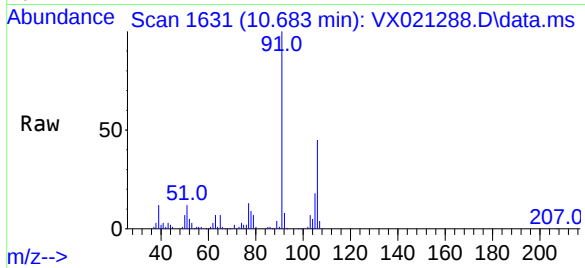




#68
o-Xylene
Concen: 6.93 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

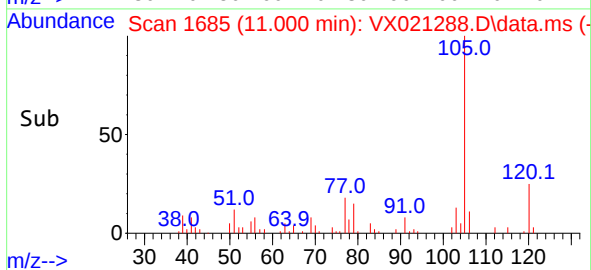
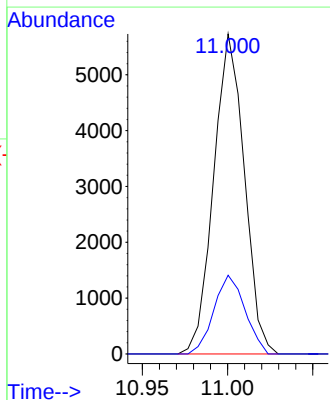
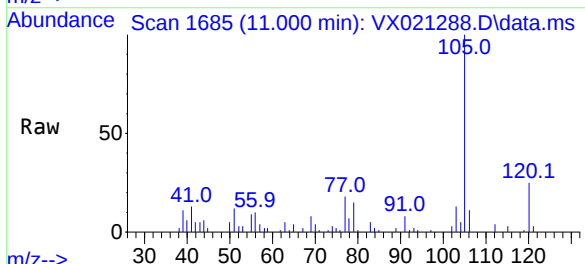
Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

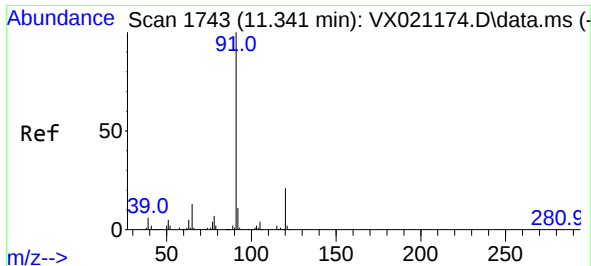
Tgt Ion:106 Resp: 12288
Ion Ratio Lower Upper
106 100
91 222.2 106.5 319.6



#70
Isopropylbenzene
Concen: 1.48 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion:105 Resp: 7171
Ion Ratio Lower Upper
105 100
120 25.0 18.4 34.2

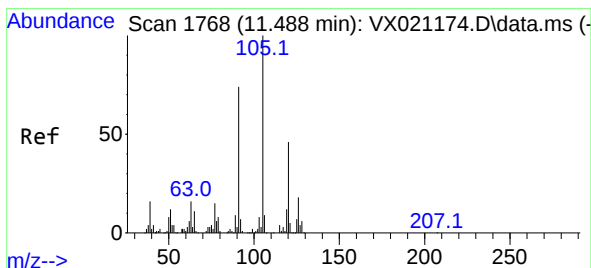
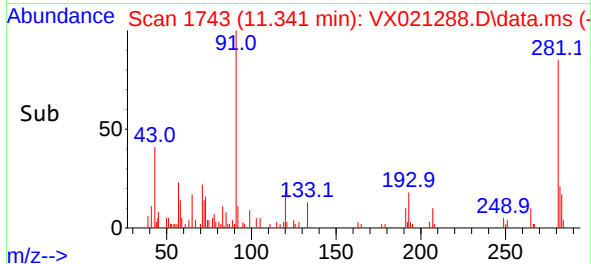
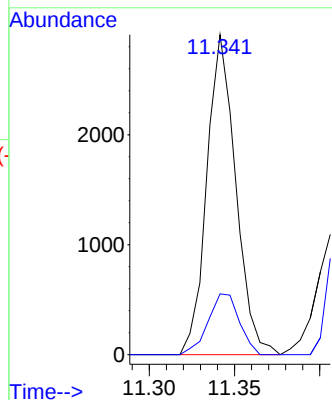
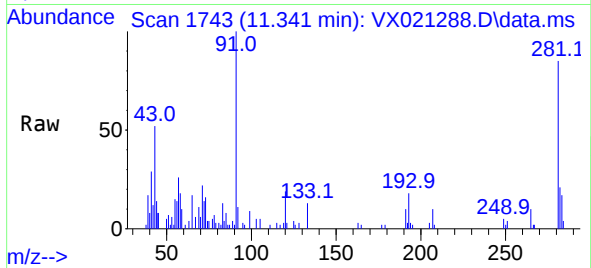




#74
n-propylbenzene
Concen: 0.60 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

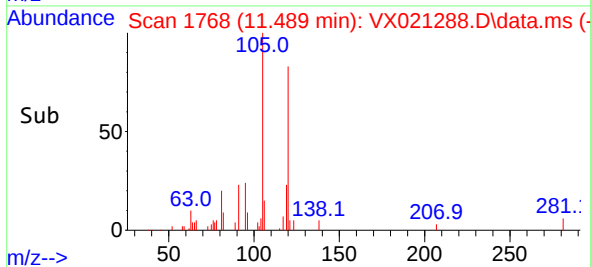
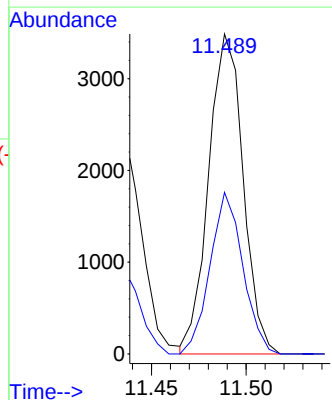
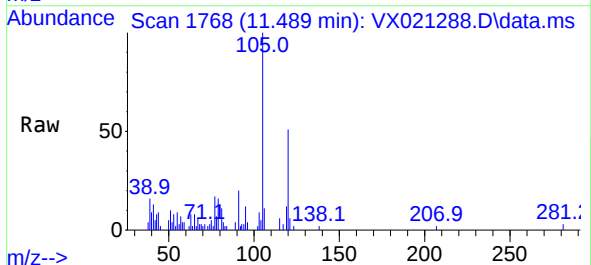
Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

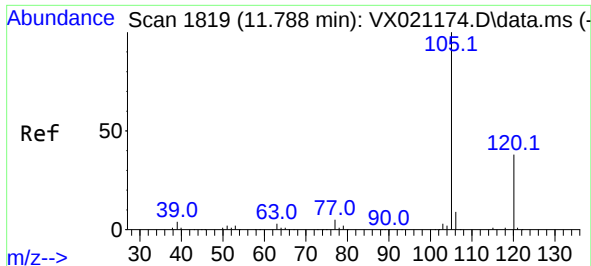
Tgt Ion: 91 Resp: 3435
Ion Ratio Lower Upper
91 100
120 20.6 0.0 45.8



#76
1,3,5-Trimethylbenzene
Concen: 1.07 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion: 105 Resp: 4414
Ion Ratio Lower Upper
105 100
120 48.1 0.0 96.2

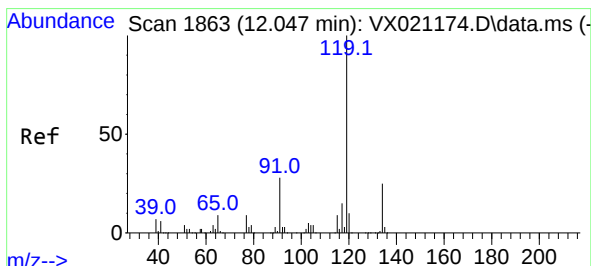
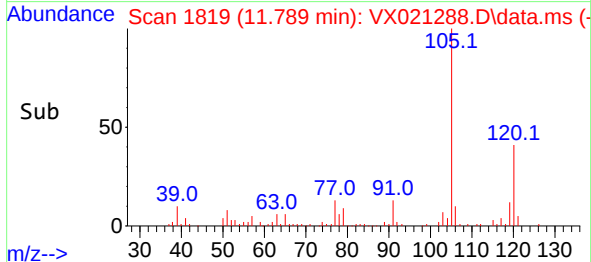
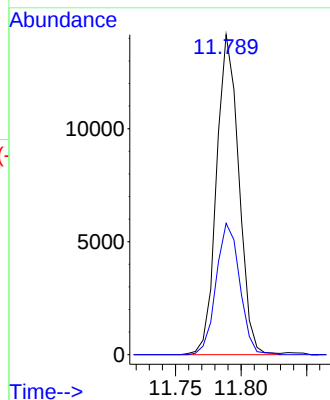
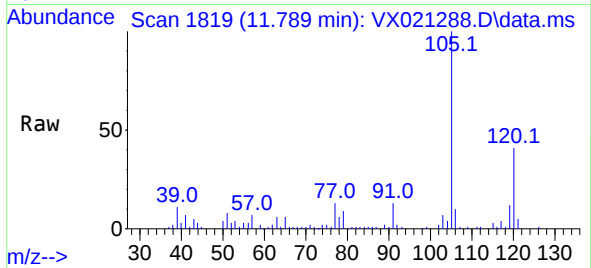




#80
1,2,4-Trimethylbenzene
Concen: 4.04 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

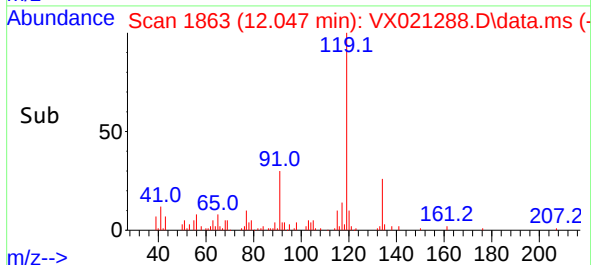
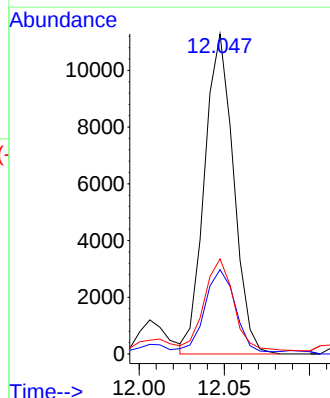
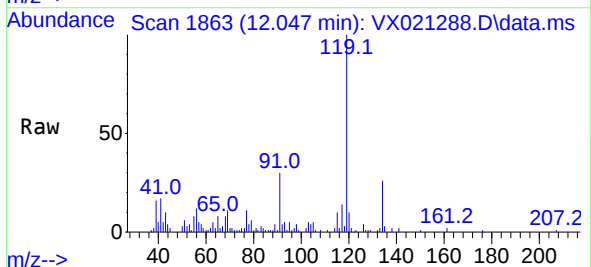
Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

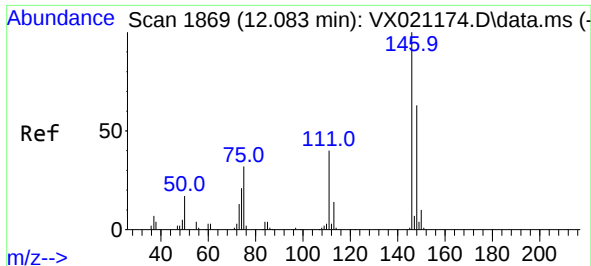
Tgt Ion:105 Resp: 16729
Ion Ratio Lower Upper
105 100
120 43.3 0.0 89.8



#82
p-Isopropyltoluene
Concen: 3.20 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion:119 Resp: 13372
Ion Ratio Lower Upper
119 100
134 28.5 0.0 52.8
91 31.3 0.0 47.4

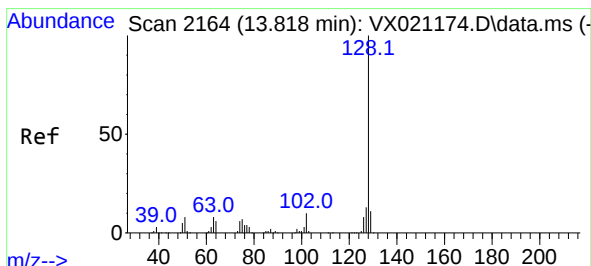
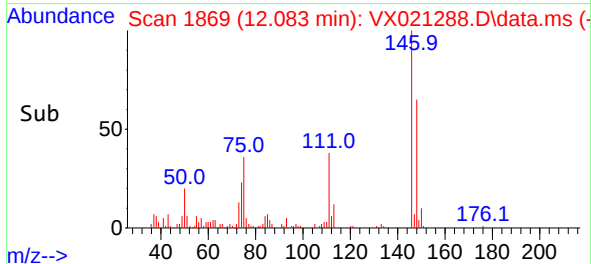
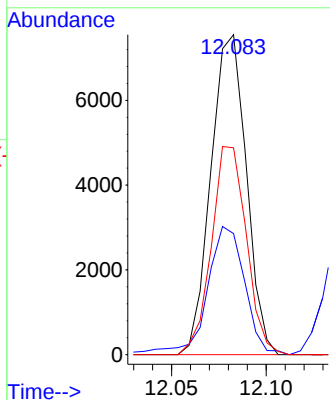
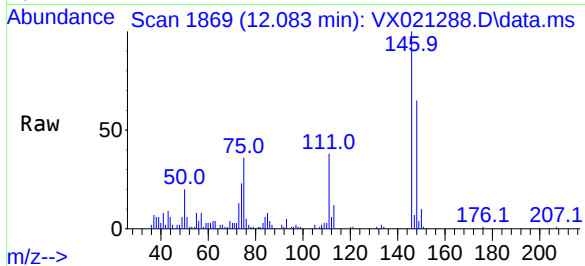




#84
1,4-Dichlorobenzene
Concen: 4.77 ug/l
RT: 12.083 min Scan# 1869
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Instrument :
MSVOA_X
ClientSampleId :
210317059-01-VOA

Tgt Ion:	146	Resp:	9835
Ion	Ratio	Lower	Upper
146	100		
111	42.6	19.1	57.3
148	64.4	31.9	95.5



#91
Naphthalene
Concen: 50.26 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021288.D
Acq: 18 Mar 2021 19:40

Tgt Ion:	128	Resp:	206076
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	10.9	8.8	13.2

