

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061822\
 Data File : VN072934.D
 Acq On : 18 Jun 2022 12:54
 Operator : JC\MD
 Sample : N3329-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PALMYRA-RT-73-COMP-1RE

Quant Time: Jun 20 08:03:35 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061722W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 18 06:22:45 2022
 Response via : Initial Calibration

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

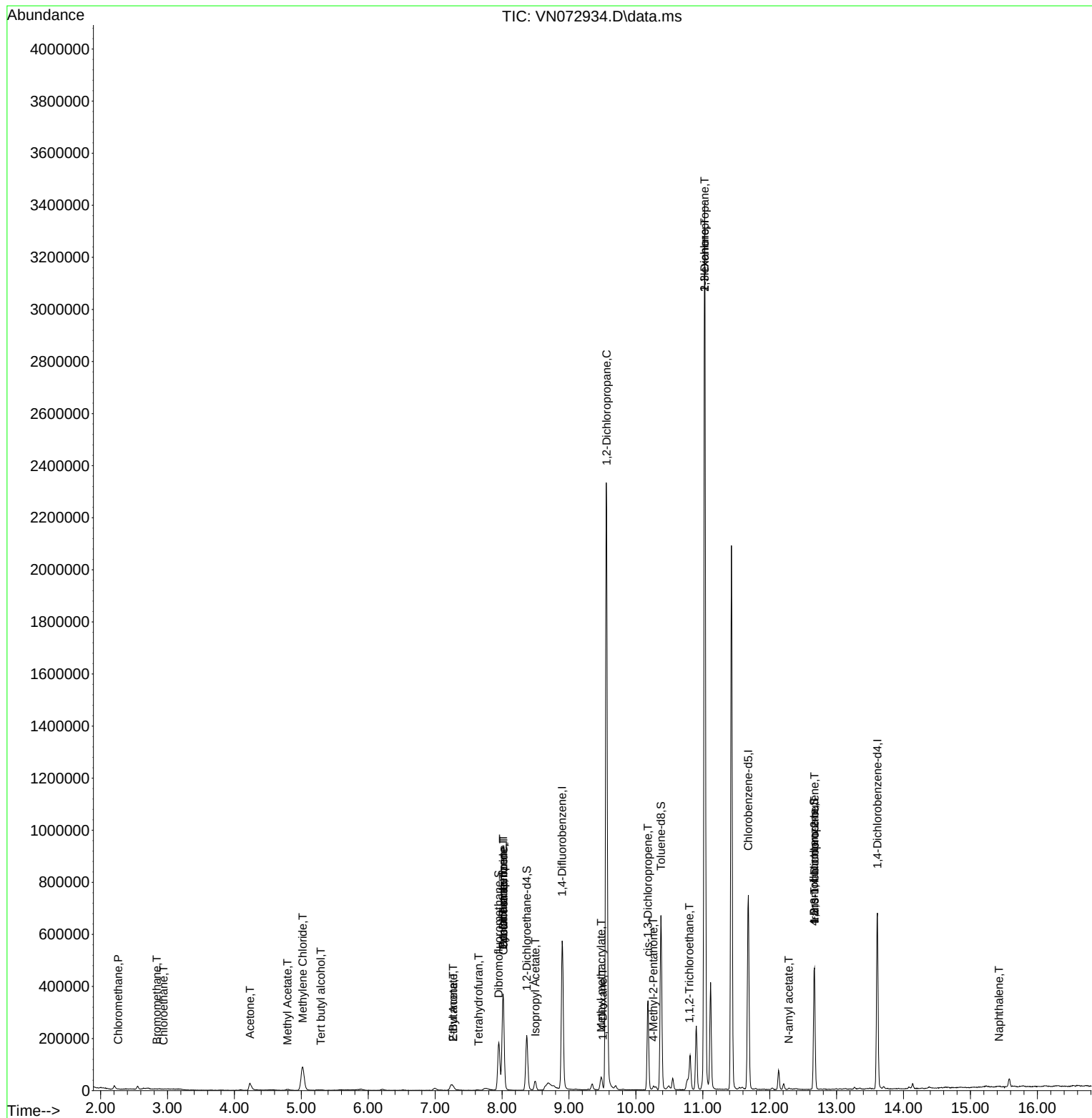
Internal Standards						
1) Pentafluorobenzene	8.016	168	290465	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.898	114	516411	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	443335	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	188121	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	174946	44.549	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.100%		
35) Dibromofluoromethane	7.951	113	138457	43.378	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	86.760%		
50) Toluene-d8	10.374	98	455478	38.349	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	76.700%#		
62) 4-Bromofluorobenzene	12.663	95	160529	37.587	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	75.180%#		
Target Compounds						Qvalue
3) Chloromethane	2.263	50	612	0.773	ug/l #	43
5) Bromomethane	2.840	94	223	0.228	ug/l #	2
6) Chloroethane	2.940	64	403	0.260	ug/l #	60
11) Tert butyl alcohol	5.292	59	3199	3.154	ug/l #	72
16) Acetone	4.234	43	50376	23.337	ug/l	89
18) Methyl Acetate	4.792	43	8660	1.507	ug/l #	65
20) Methylene Chloride	5.022	84	76913	22.840	ug/l	96
25) 2-Butanone	7.269	43	22935	6.695	ug/l #	88
26) 2,2-Dichloropropane	7.233	77	1362	Below Cal	#	53
29) Tetrahydrofuran	7.651	42	1620	0.716	ug/l #	42
31) Cyclohexane	8.016	56	6402	1.205	ug/l #	10
36) 1,1-Dichloropropene	8.016	75	22487	5.207	ug/l #	48
37) Ethyl Acetate	7.269	43	22935	3.320	ug/l #	67
38) Carbon Tetrachloride	8.022	117	28660	6.309	ug/l #	16
43) Isopropyl Acetate	8.498	43	42871	4.341	ug/l #	88
45) 1,2-Dichloropropane	9.563	63	2406	0.693	ug/l #	44
48) Methyl methacrylate	9.480	41	15485	3.435	ug/l #	22
49) 1,4-Dioxane	9.504	88	55	0.542	ug/l #	25
51) 4-Methyl-2-Pentanone	10.263	43	8044	1.249	ug/l	99
54) cis-1,3-Dichloropropene	10.180	75	62775	11.462	ug/l #	61
55) 1,1,2-Trichloroethane	10.798	97	1671	0.457	ug/l #	16
57) 1,3-Dichloropropane	11.027	76	34965	5.760	ug/l #	42
59) 2-Hexanone	11.027	43	550755	110.579	ug/l #	44
74) N-amyl acetate	12.286	43	4020	0.532	ug/l #	42
76) 1,2,3-Trichloropropane	12.668	75	81473	17.863	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.668	75	81473	48.242	ug/l #	10
95) Naphthalene	15.427	128	3035	0.209	ug/l #	73

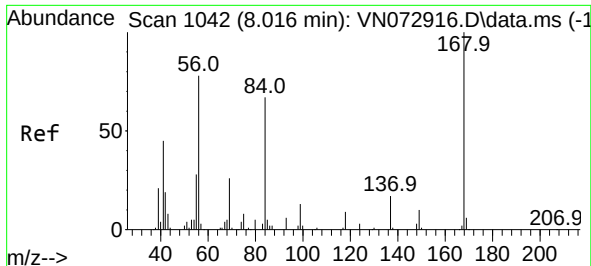
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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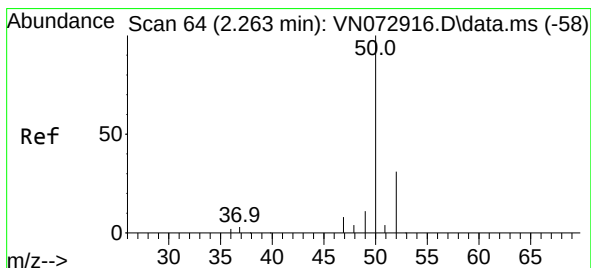
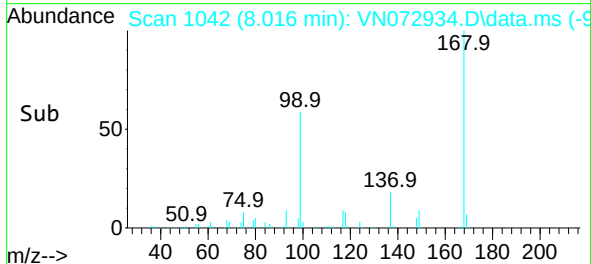
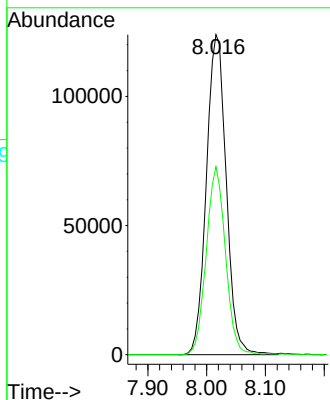
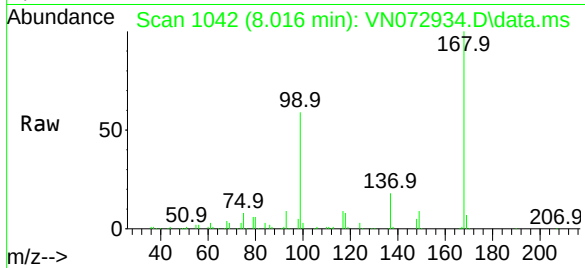




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

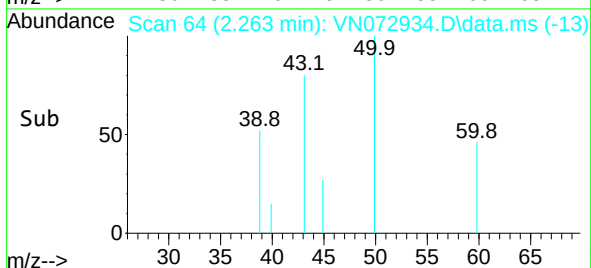
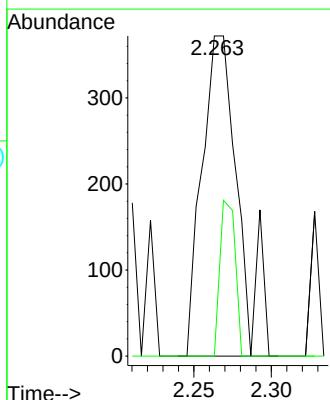
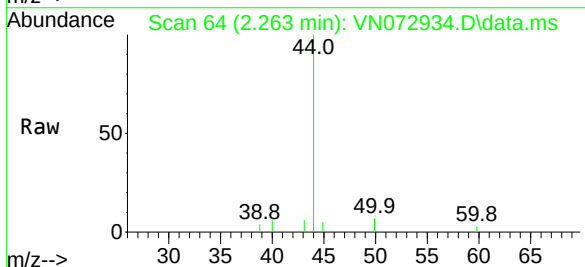
Instrument :
MSVOA_N
ClientSampleId :
PALMYRA-RT-73-COMP-1RE

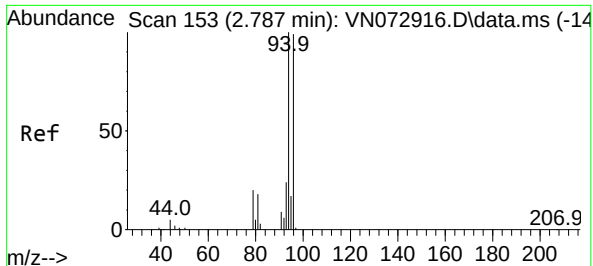
Tgt Ion:168 Resp: 290465
Ion Ratio Lower Upper
168 100
99 58.8 42.3 63.5



#3
Chloromethane
Concen: 0.773 ug/l
RT: 2.263 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 50 Resp: 612
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

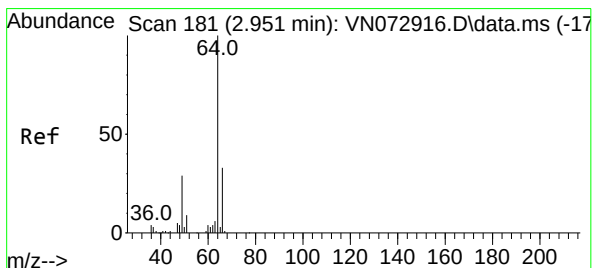
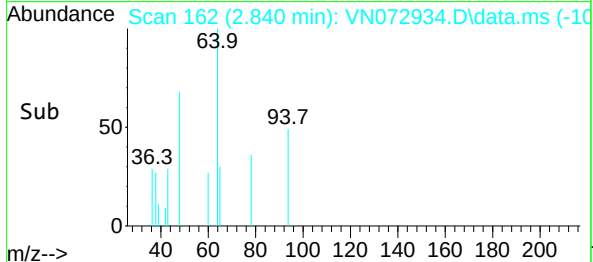
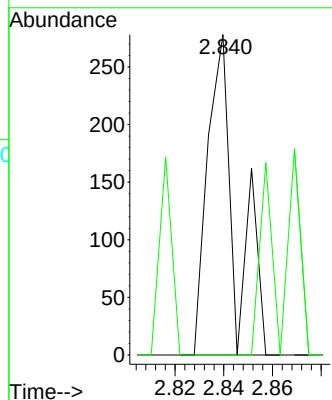
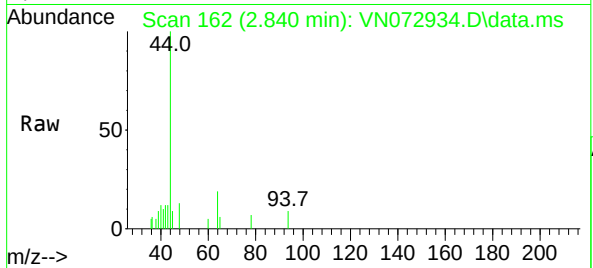




#5
Bromomethane
Concen: 0.228 ug/l
RT: 2.840 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

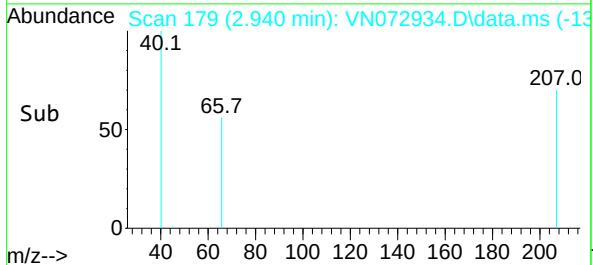
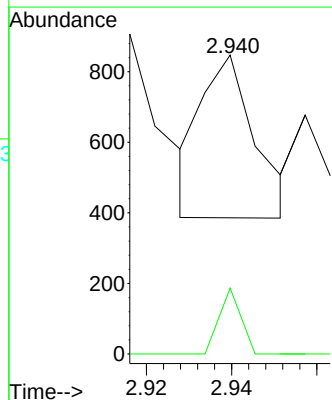
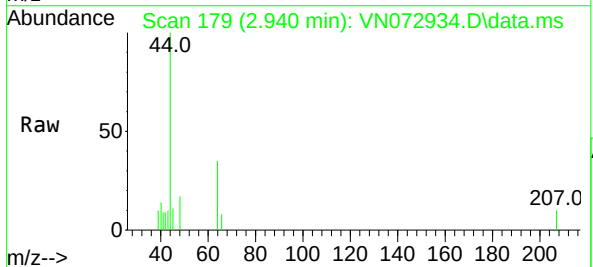
Instrument :
MSVOA_N
ClientSampleId :
PALMYRA-RT-73-COMP-1RE

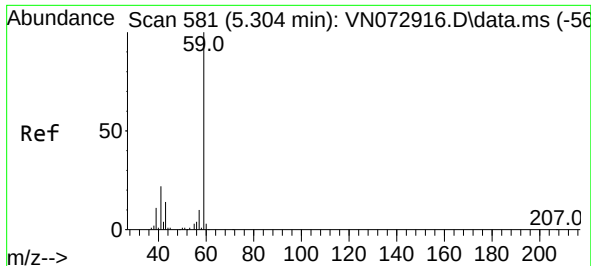
Tgt Ion: 94 Resp: 223
Ion Ratio Lower Upper
94 100
96 0.0 76.0 114.0#



#6
Chloroethane
Concen: 0.260 ug/l
RT: 2.940 min Scan# 179
Delta R.T. -0.012 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 64 Resp: 403
Ion Ratio Lower Upper
64 100
66 55.2 26.2 39.4#

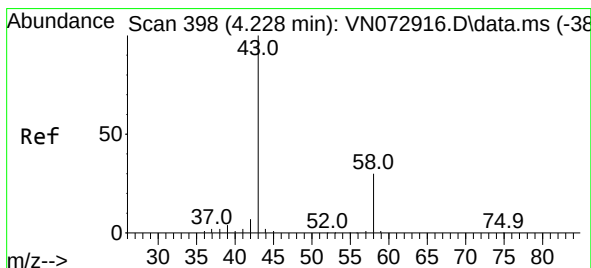
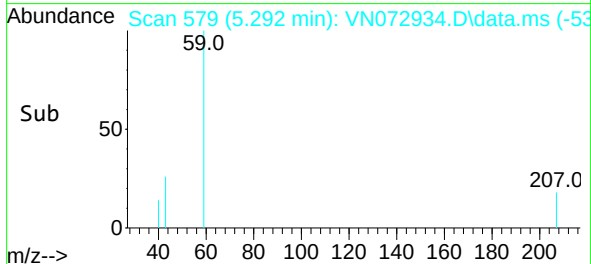
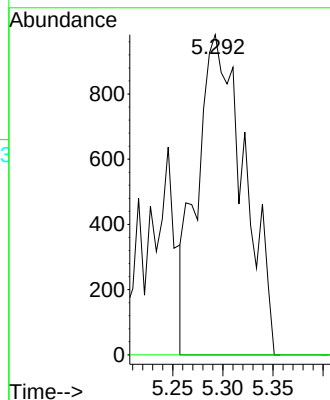
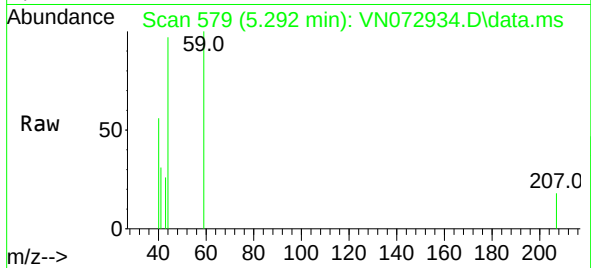




#11
Tert butyl alcohol
Concen: 3.154 ug/l
RT: 5.292 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

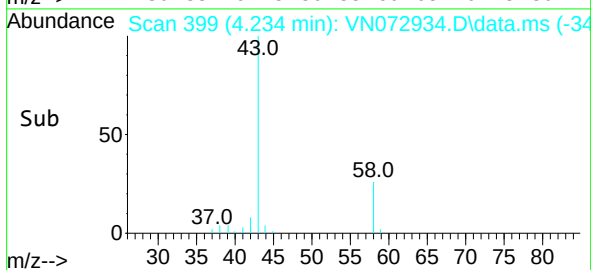
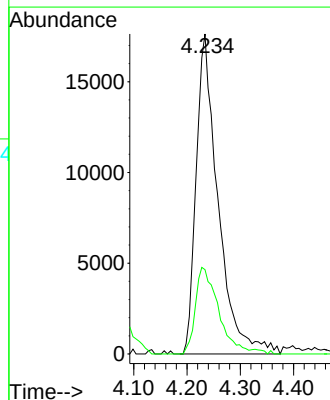
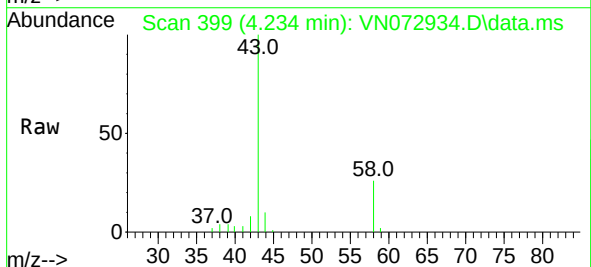
Instrument :
MSVOA_N
ClientSampleId :
PALMYRA-RT-73-COMP-1RE

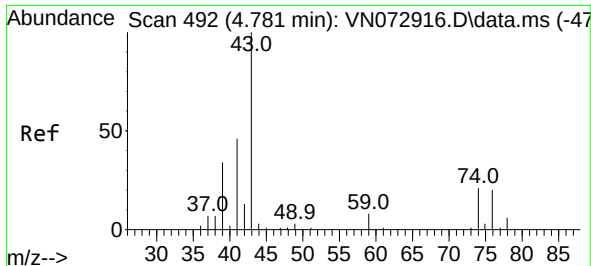
Tgt Ion: 59 Resp: 3199
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 23.337 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.006 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 43 Resp: 50376
Ion Ratio Lower Upper
43 100
58 26.3 26.0 39.0

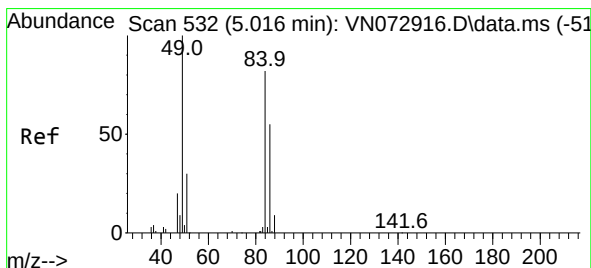
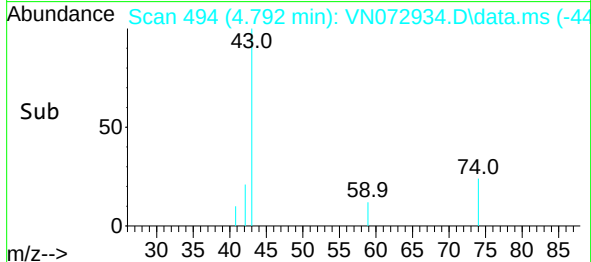
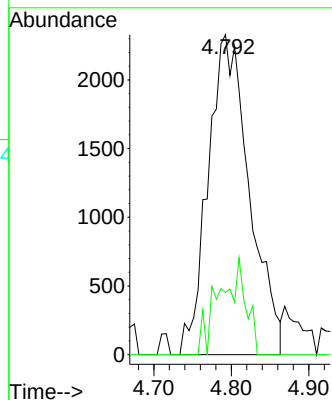
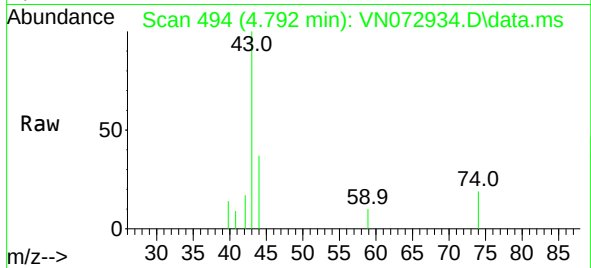




#18
Methyl Acetate
Concen: 1.507 ug/l
RT: 4.792 min Scan# 492
Delta R.T. 0.012 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

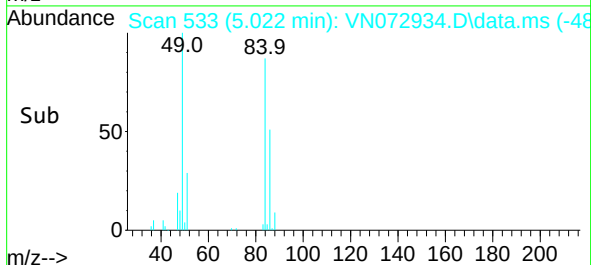
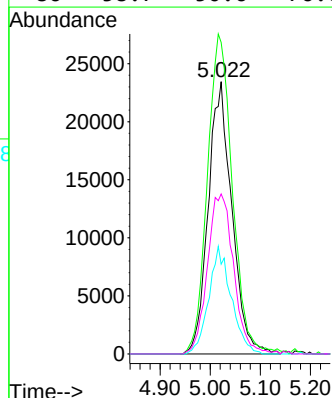
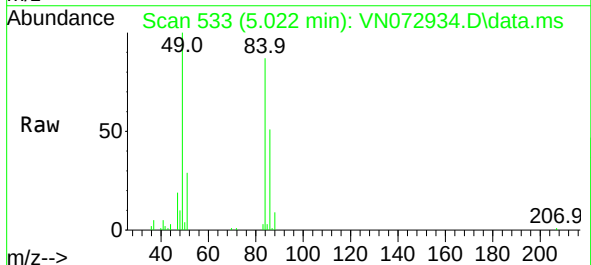
Instrument :
MSVOA_N
ClientSampleId :
PALMYRA-RT-73-COMP-1RE

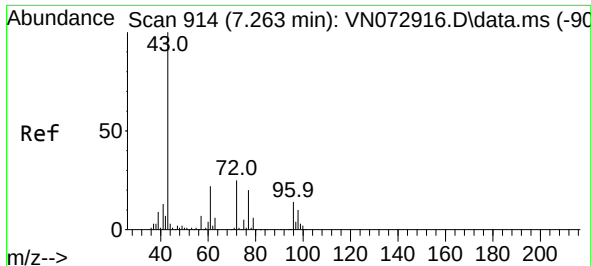
Tgt Ion: 43 Resp: 8660
Ion Ratio Lower Upper
43 100
74 8.8 21.6 32.4#



#20
Methylene Chloride
Concen: 22.840 ug/l
RT: 5.022 min Scan# 533
Delta R.T. 0.006 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 84 Resp: 76913
Ion Ratio Lower Upper
84 100
49 114.4 88.3 132.5
51 33.0 28.2 42.2
86 58.7 50.6 76.0

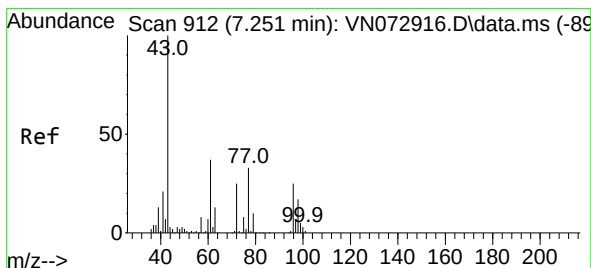
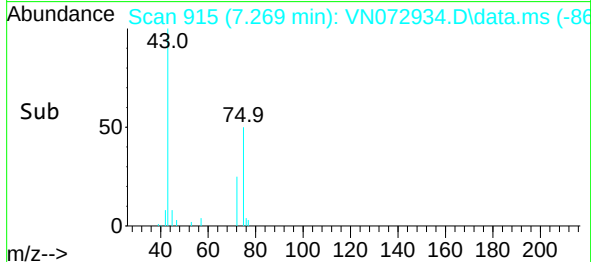
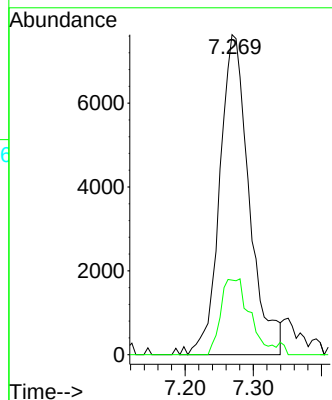
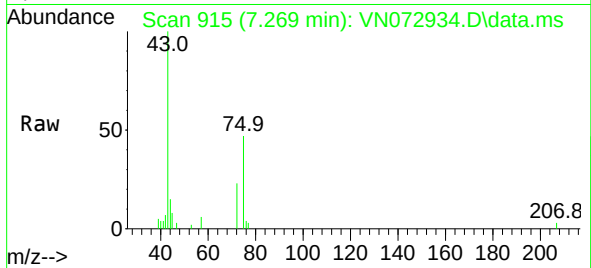




#25
2-Butanone
Concen: 6.695 ug/l
RT: 7.269 min Scan# 914
Delta R.T. 0.006 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

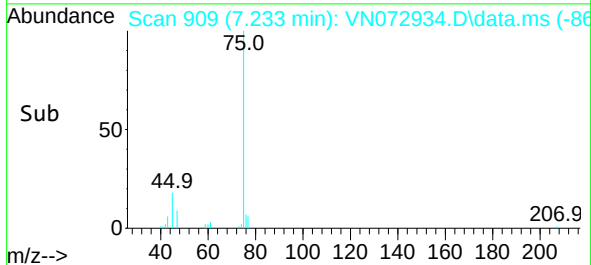
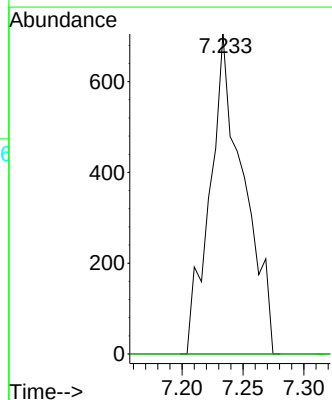
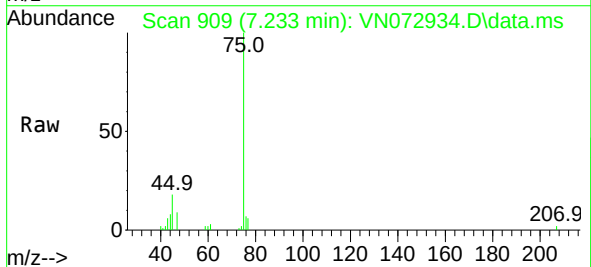
Instrument :
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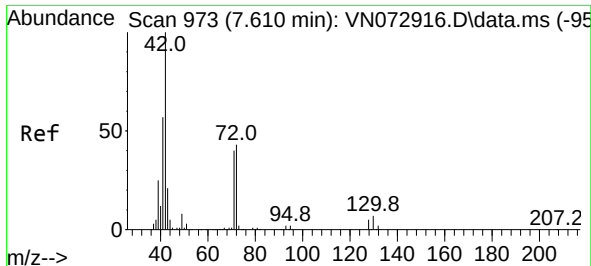
Tgt Ion: 43 Resp: 22935
Ion Ratio Lower Upper
43 100
72 23.3 23.7 35.5#



#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.233 min Scan# 909
Delta R.T. -0.018 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 77 Resp: 1362
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#





#29

Tetrahydrofuran

Concen: 0.716 ug/l

RT: 7.651 min Scan# 91

Delta R.T. 0.041 min

Lab File: VN072934.D

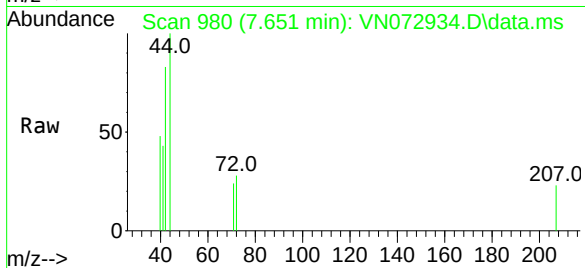
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Instrument :

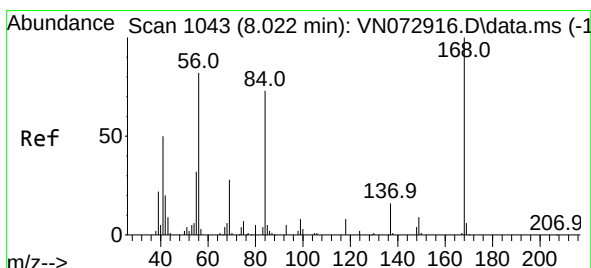
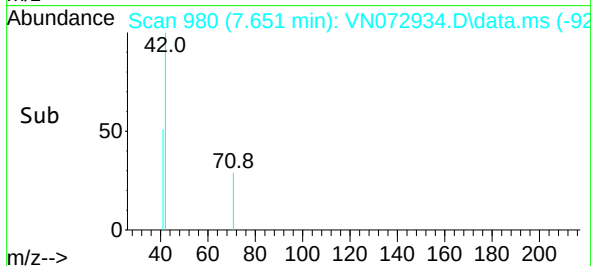
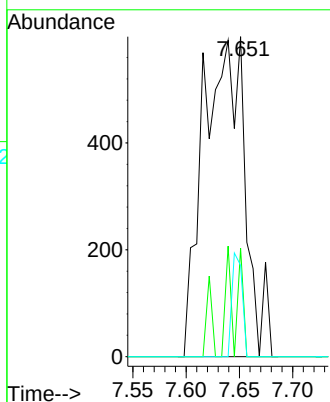
MSVOA_N

ClientSampleId :

PALMYRA-RT-73-COMP-1RE



Tgt Ion:	42	Resp:	1620
Ion Ratio	Lower	Upper	
42	100		
72	9.0	39.7	59.5#
71	8.0	36.6	55.0#



#31

Cyclohexane

Concen: 1.205 ug/l

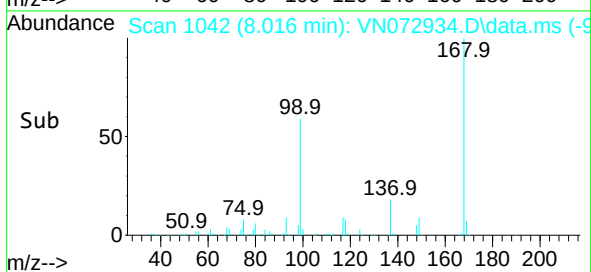
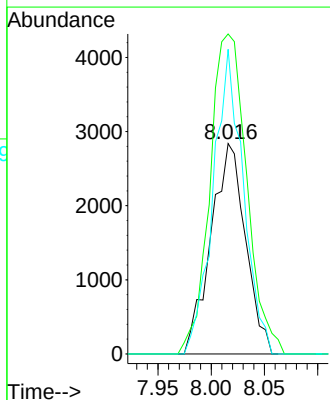
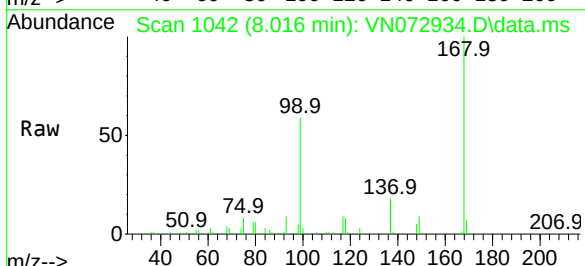
RT: 8.016 min Scan# 1042

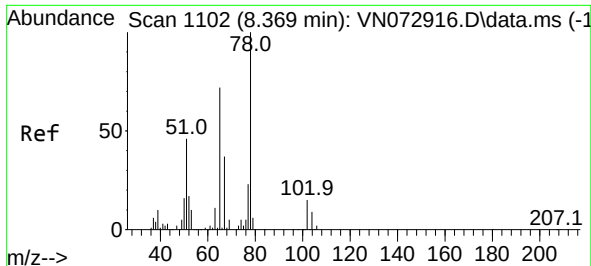
Delta R.T. -0.006 min

Lab File: VN072934.D

Acq: 18 Jun 2022 12:54

Tgt Ion:	56	Resp:	6402
Ion Ratio	Lower	Upper	
56	100		
69	152.1	27.8	41.8#
84	144.8	76.9	115.3#

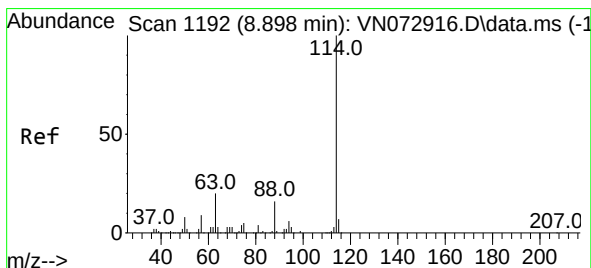
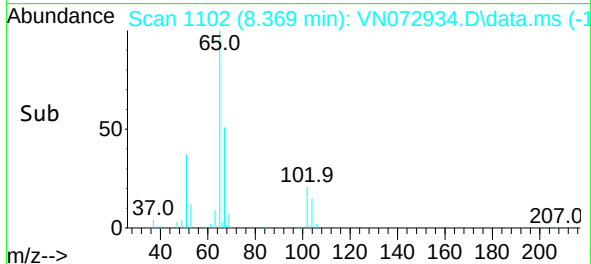
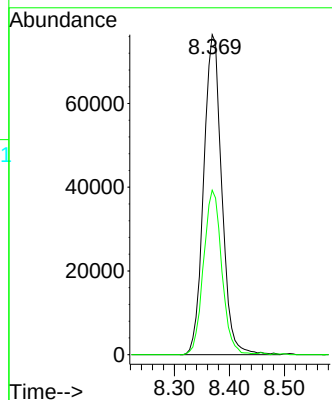
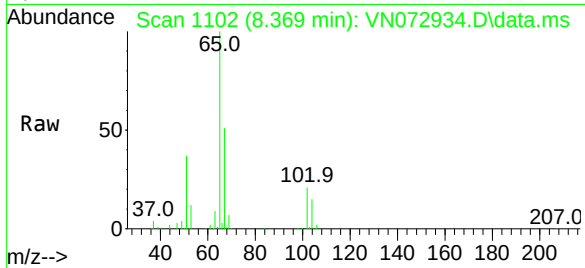




#33
 1,2-Dichloroethane-d4
 Concen: 44.549 ug/l
 RT: 8.369 min Scan# 1102
 Delta R.T. -0.000 min
 Lab File: VN072934.D
 Acq: 18 Jun 2022 12:54

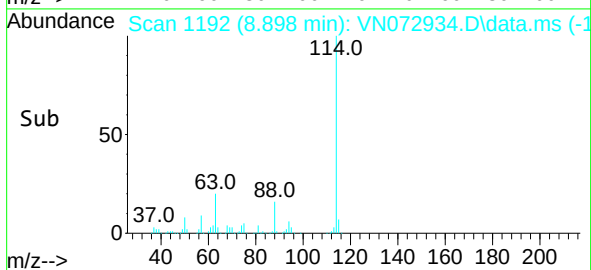
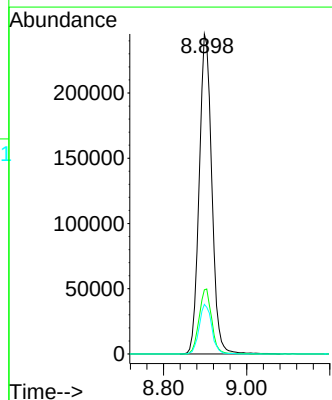
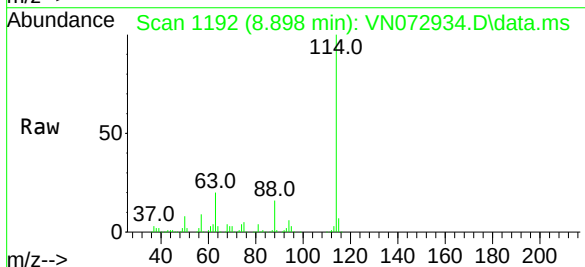
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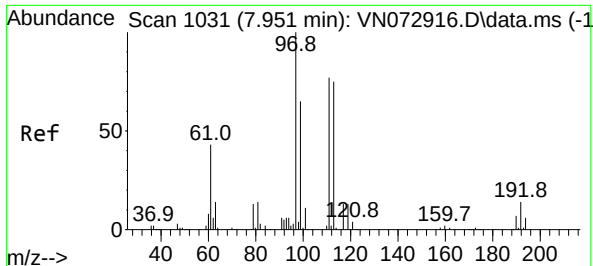
Tgt Ion: 65 Resp: 174946
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.898 min Scan# 1192
 Delta R.T. -0.000 min
 Lab File: VN072934.D
 Acq: 18 Jun 2022 12:54

Tgt Ion: 114 Resp: 516411
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.0
 88 15.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 43.378 ug/l

RT: 7.951 min Scan# 1042

Delta R.T. -0.000 min

Lab File: VN072934.D

Acq: 18 Jun 2022 12:54

Instrument :

MSVOA_N

ClientSampleId :

PALMYRA-RT-73-COMP-1RE

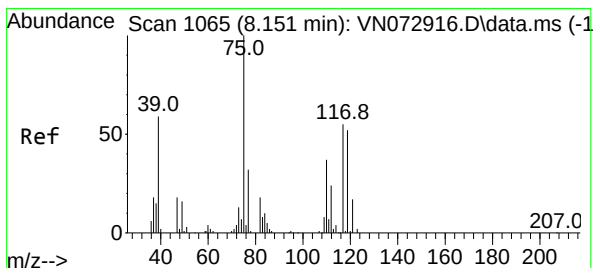
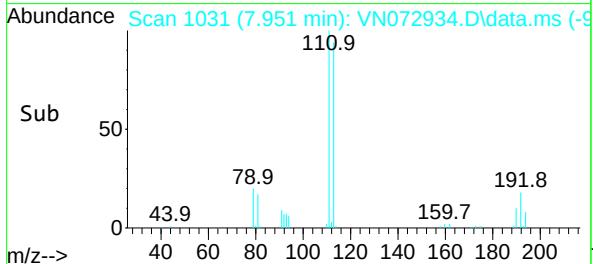
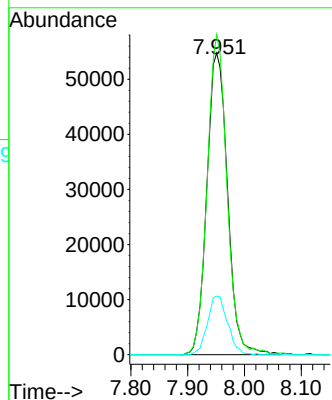
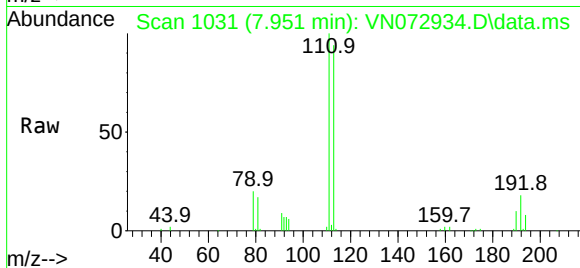
Tgt Ion:113 Resp: 138457

Ion Ratio Lower Upper

113 100

111 101.2 81.4 122.0

192 18.8 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.207 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN072934.D

Acq: 18 Jun 2022 12:54

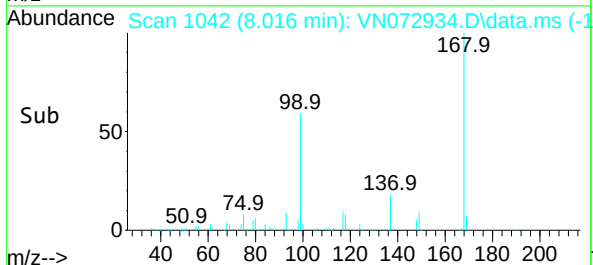
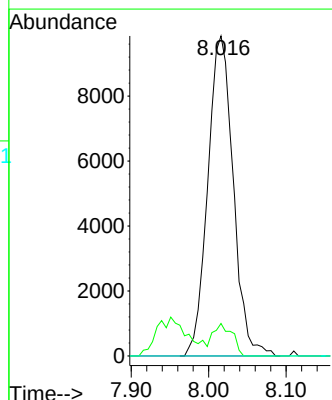
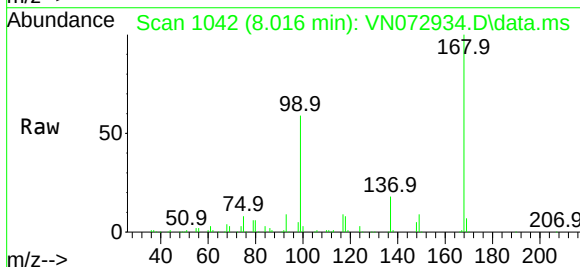
Tgt Ion: 75 Resp: 22487

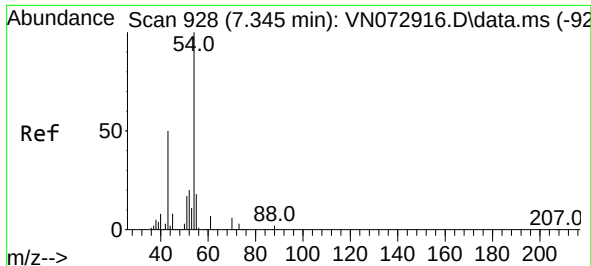
Ion Ratio Lower Upper

75 100

110 7.7 18.3 54.8#

77 0.0 25.1 37.7#

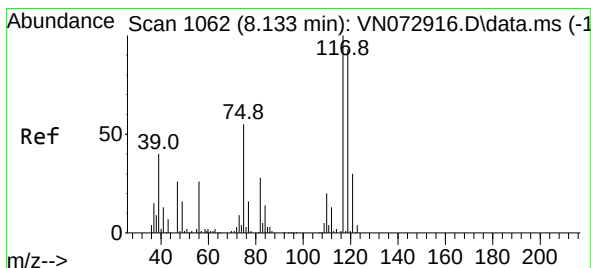
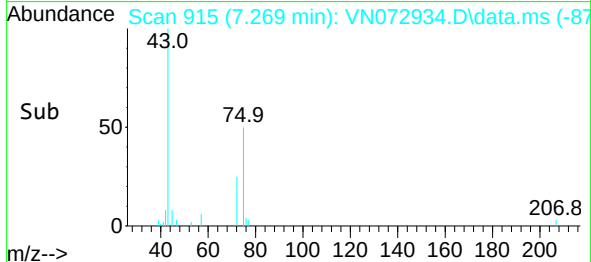
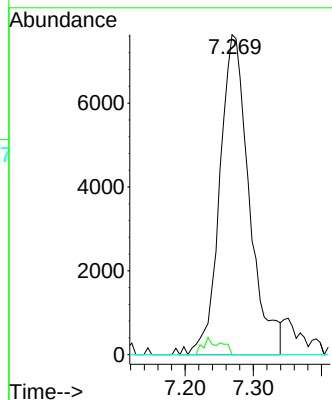
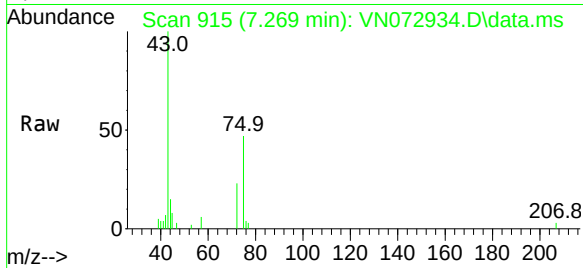




#37
Ethyl Acetate
Concen: 3.320 ug/l
RT: 7.269 min Scan# 91
Delta R.T. -0.076 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

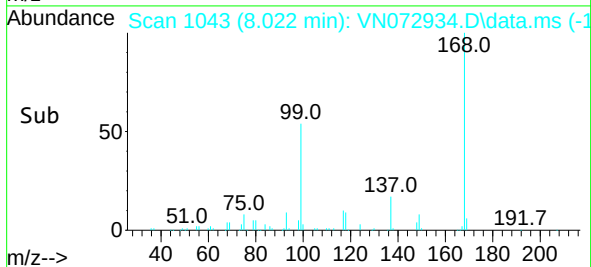
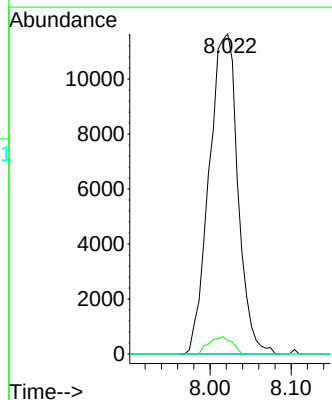
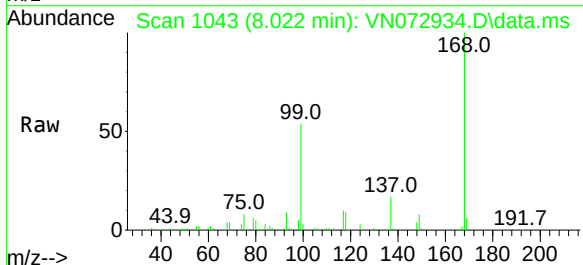
Instrument :
MSVOA_N
ClientSampleId :
PALMYRA-RT-73-COMP-1RE

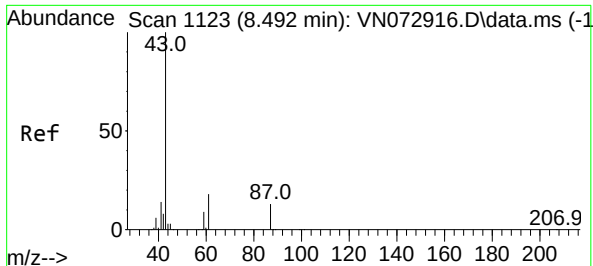
Tgt Ion: 43 Resp: 22935
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 6.309 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.112 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 117 Resp: 28660
Ion Ratio Lower Upper
117 100
119 4.2 75.8 113.8#
121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 4.341 ug/l

RT: 8.498 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN072934.D

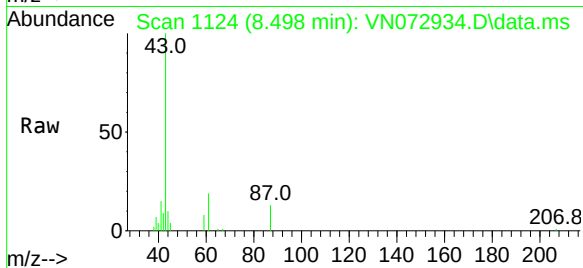
Acq: 18 Jun 2022 12:54

Instrument :

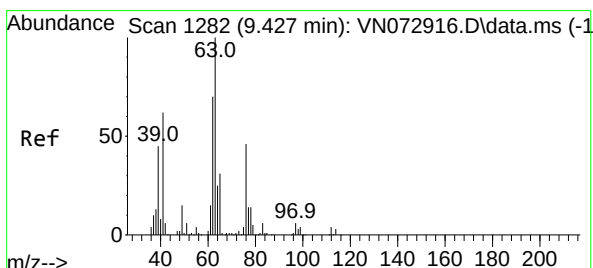
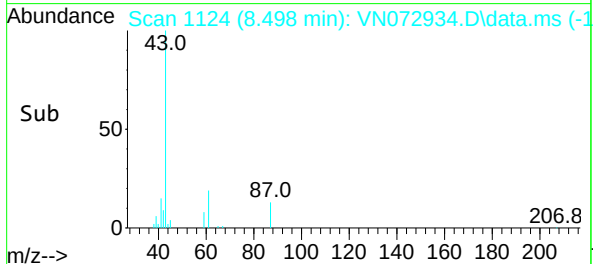
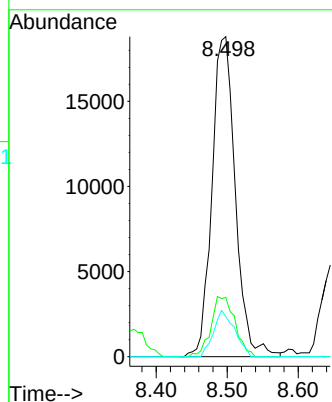
MSVOA_N

ClientSampleId :

PALMYRA-RT-73-COMP-1RE



Tgt Ion:	43	Resp:	42871
Ion	Ratio	Lower	Upper
43	100		
61	19.3	21.9	32.9#
87	13.0	12.0	18.0



#45

1,2-Dichloropropane

Concen: 0.693 ug/l

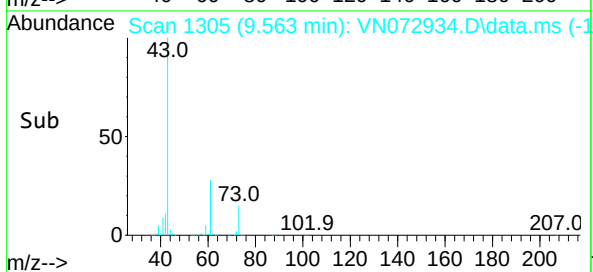
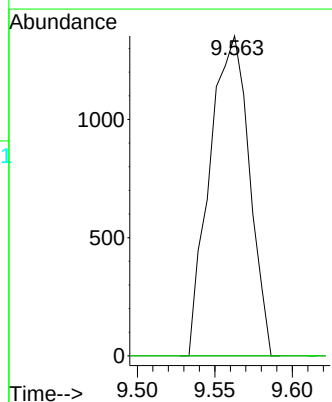
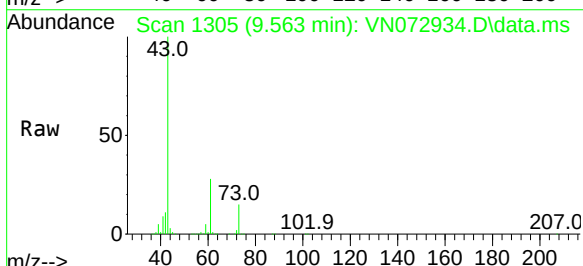
RT: 9.563 min Scan# 1305

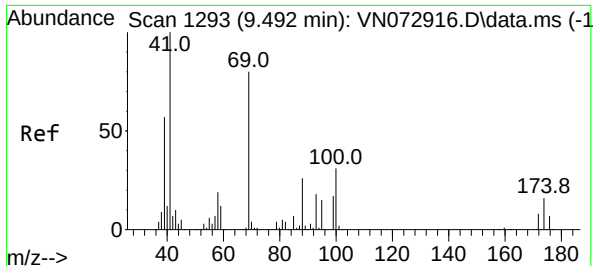
Delta R.T. 0.135 min

Lab File: VN072934.D

Acq: 18 Jun 2022 12:54

Tgt Ion:	63	Resp:	2406
Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.9	37.3#

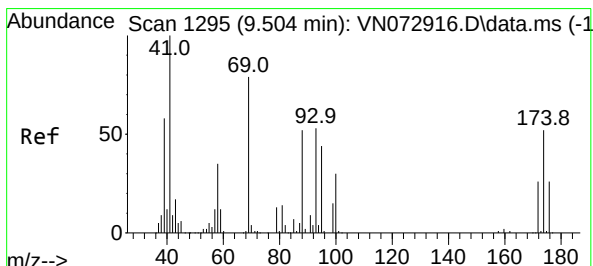
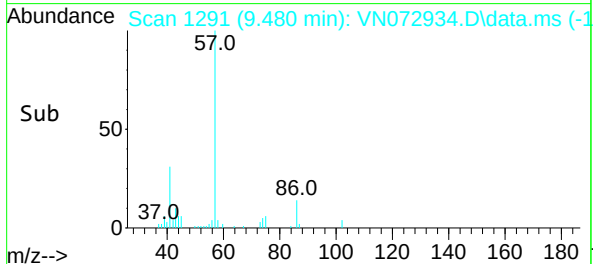
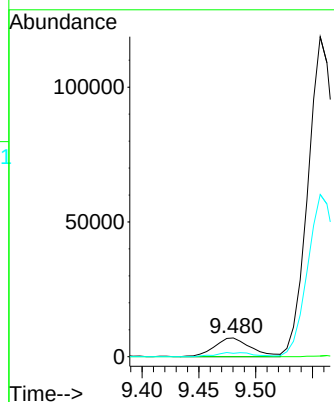
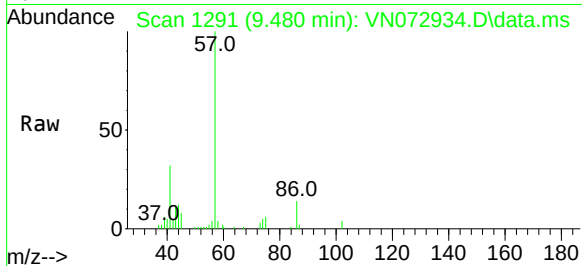




#48
Methyl methacrylate
Concen: 3.435 ug/l
RT: 9.480 min Scan# 1291
Delta R.T. -0.012 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

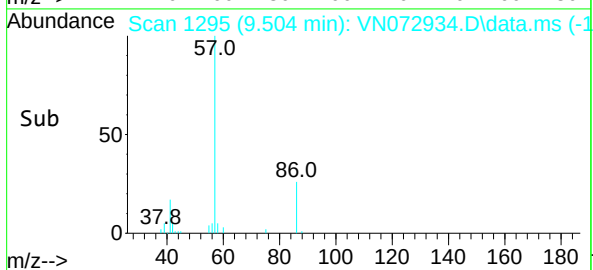
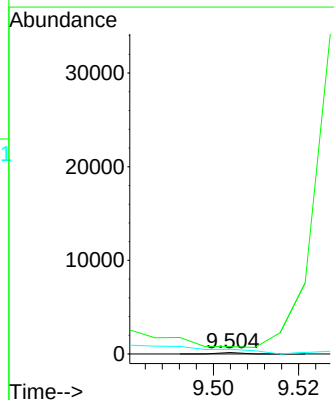
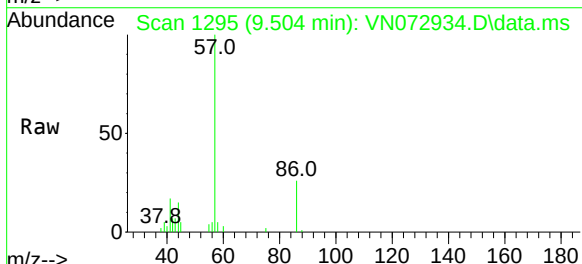
Instrument : MSVOA_N
ClientSampleId : PALMYRA-RT-73-COMP-1RE

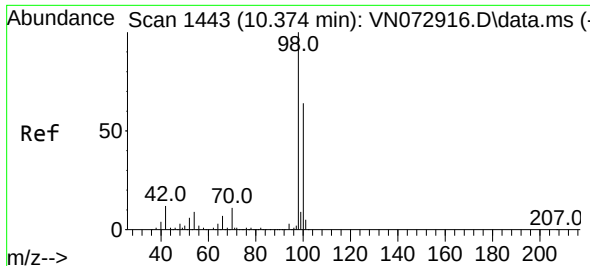
Tgt Ion: 41 Resp: 15485
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 22.5 45.6 68.4#



#49
1,4-Dioxane
Concen: 0.542 ug/l
RT: 9.504 min Scan# 1295
Delta R.T. -0.000 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 0.0 54.2 81.4#

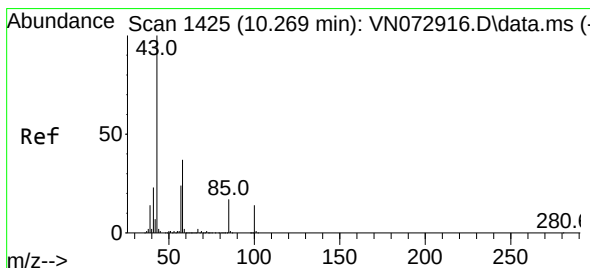
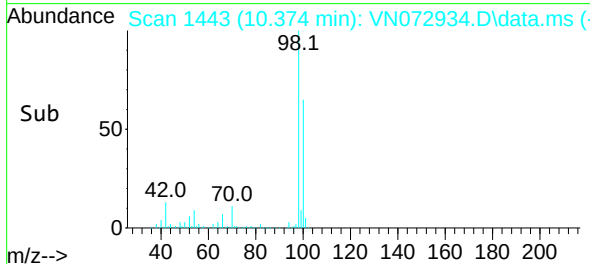
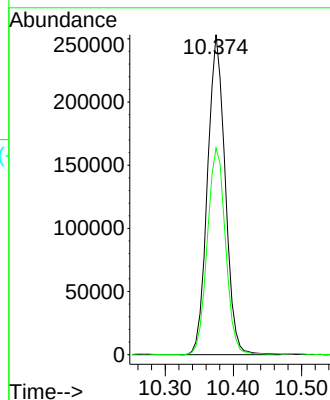
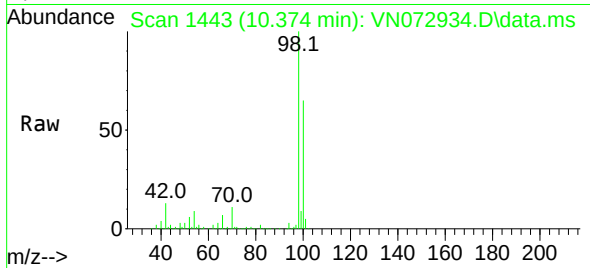




#50
Toluene-d8
Concen: 38.349 ug/l
RT: 10.374 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

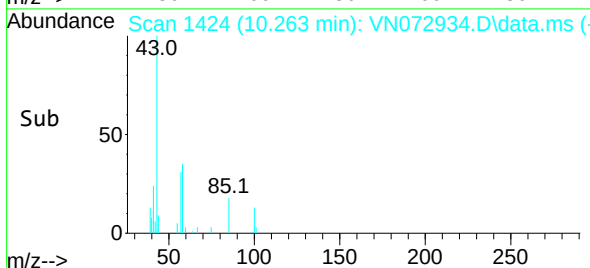
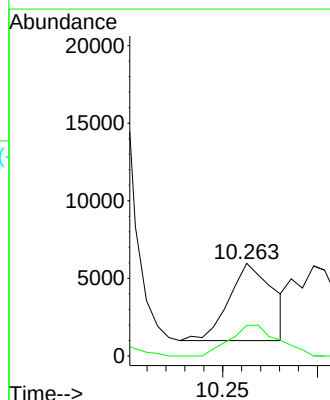
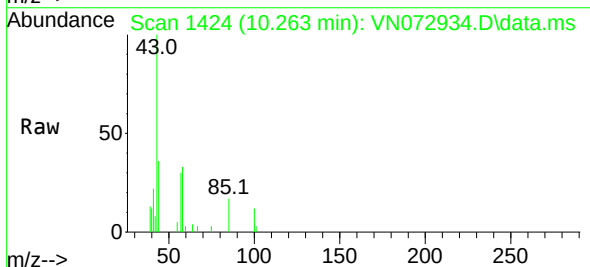
Instrument :
MSVOA_N
ClientSampleId :
PALMYRA-RT-73-COMP-1RE

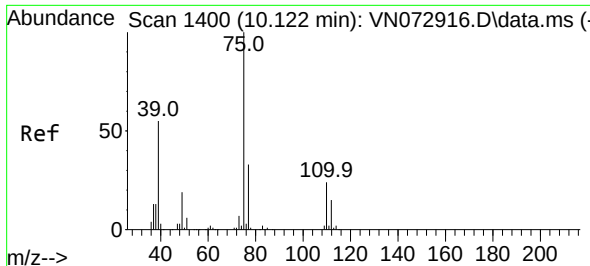
Tgt Ion: 98 Resp: 455478
Ion Ratio Lower Upper
98 100
100 66.6 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.249 ug/l
RT: 10.263 min Scan# 1424
Delta R.T. -0.006 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 43 Resp: 8044
Ion Ratio Lower Upper
43 100
58 43.5 34.1 51.1

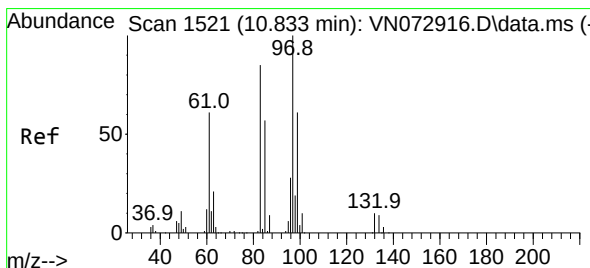
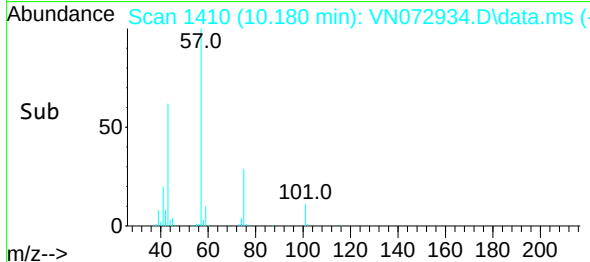
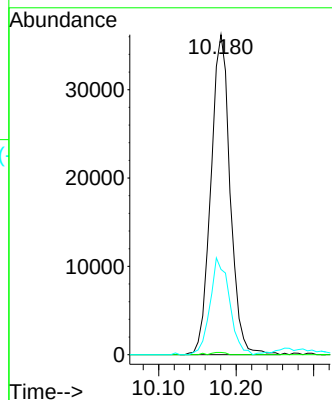
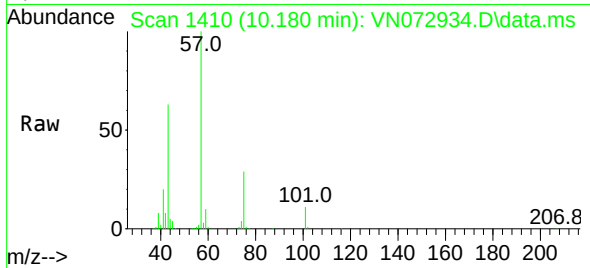




#54
cis-1,3-Dichloropropene
Concen: 11.462 ug/l
RT: 10.180 min Scan# 1410
Delta R.T. 0.059 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

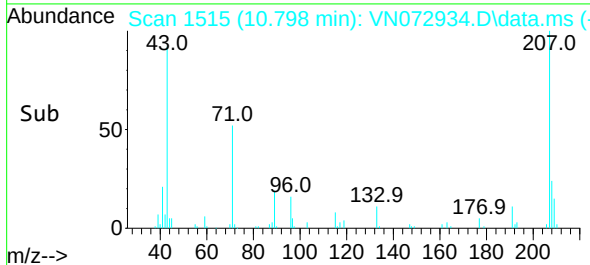
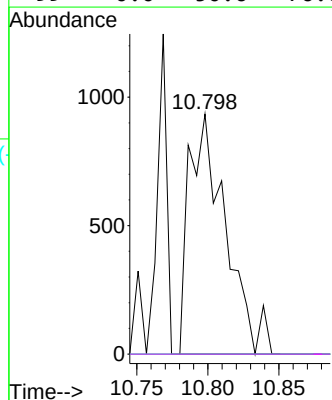
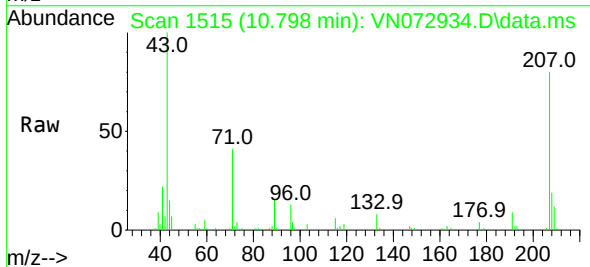
Instrument :
MSVOA_N
ClientSampleId :
PALMYRA-RT-73-COMP-1RE

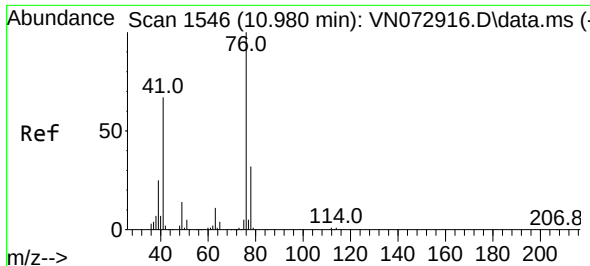
Tgt Ion: 75 Resp: 62775
Ion Ratio Lower Upper
75 100
77 0.7 25.2 37.8#
39 26.7 35.7 53.5#



#55
1,1,2-Trichloroethane
Concen: 0.457 ug/l
RT: 10.798 min Scan# 1515
Delta R.T. -0.035 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 97 Resp: 1671
Ion Ratio Lower Upper
97 100
83 0.0 66.2 99.4#
85 0.0 43.9 65.9#
99 0.0 50.6 76.0#





#57

1,3-Dichloropropane

Concen: 5.760 ug/l

RT: 11.027 min Scan# 1554

Delta R.T. 0.047 min

Lab File: VN072934.D

Acq: 18 Jun 2022 12:54

Instrument :

MSVOA_N

ClientSampleId :

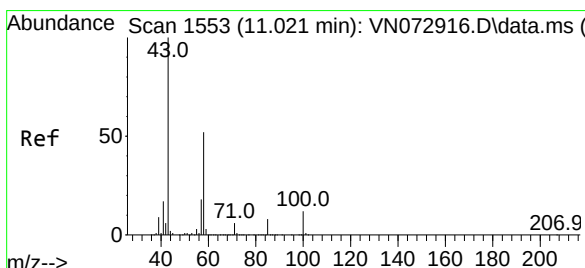
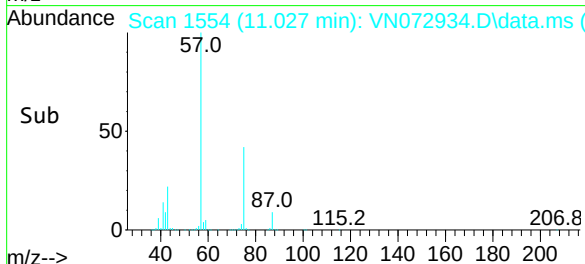
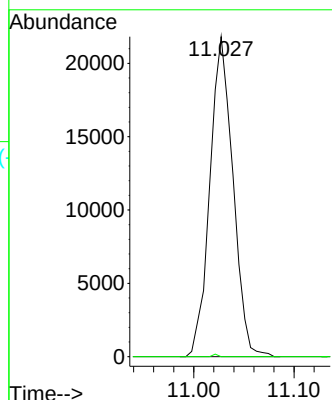
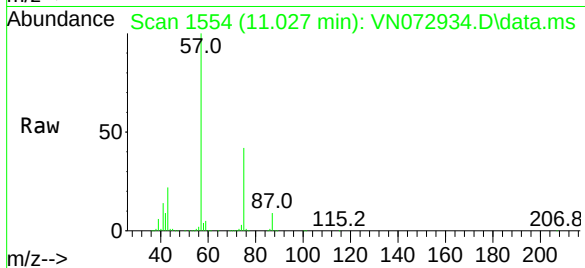
PALMYRA-RT-73-COMP-1RE

Tgt Ion: 76 Resp: 34965

Ion Ratio Lower Upper

76 100

78 0.2 26.2 39.2#



#59

2-Hexanone

Concen: 110.579 ug/l

RT: 11.027 min Scan# 1554

Delta R.T. 0.006 min

Lab File: VN072934.D

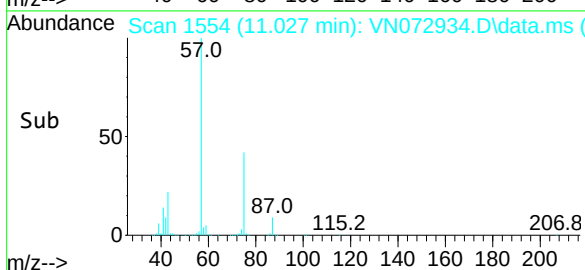
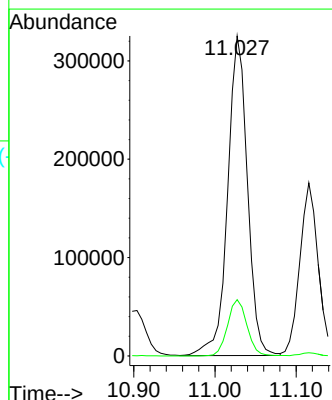
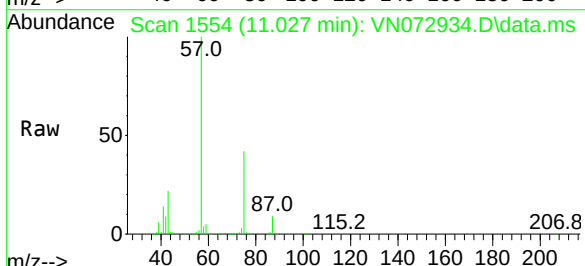
Acq: 18 Jun 2022 12:54

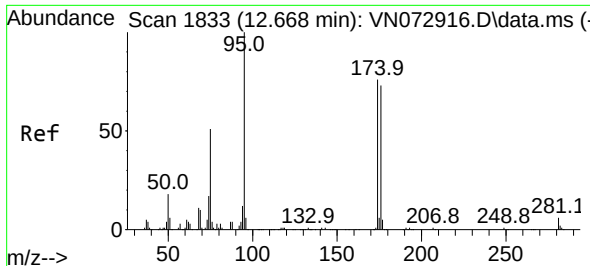
Tgt Ion: 43 Resp: 550755

Ion Ratio Lower Upper

43 100

58 17.3 29.7 89.1#

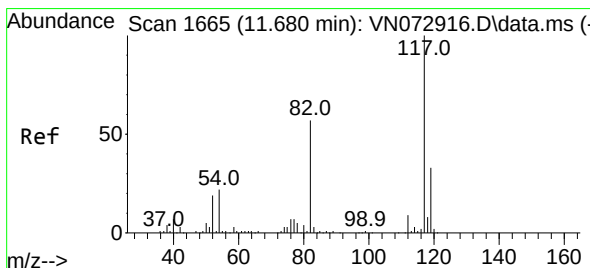
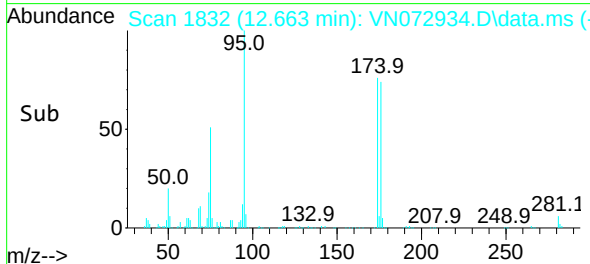
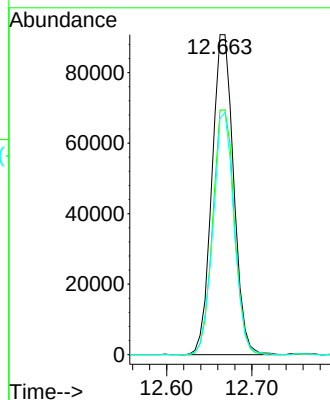
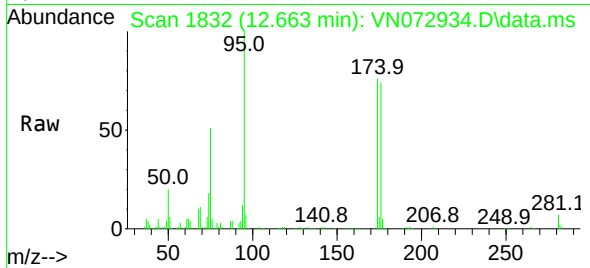




#62
4-Bromofluorobenzene
Concen: 37.587 ug/l
RT: 12.663 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

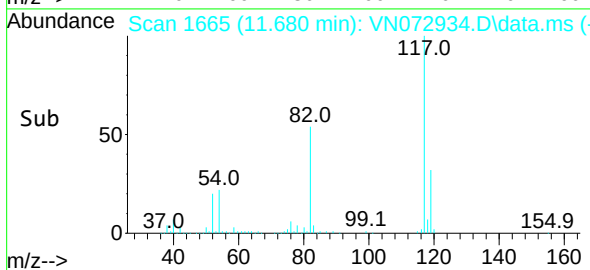
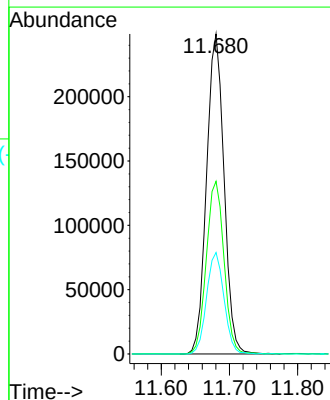
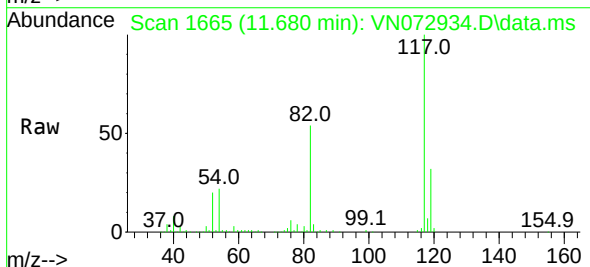
Instrument :
MSVOA_N
ClientSampleId :
PALMYRA-RT-73-COMP-1RE

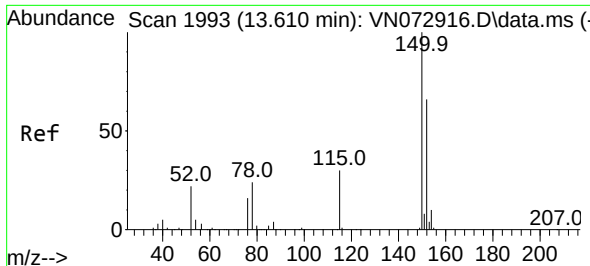
Tgt Ion: 95 Resp: 160529
Ion Ratio Lower Upper
95 100
174 76.2 0.0 167.6
176 73.2 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 117 Resp: 443335
Ion Ratio Lower Upper
117 100
82 54.0 44.2 66.2
119 31.7 25.4 38.0

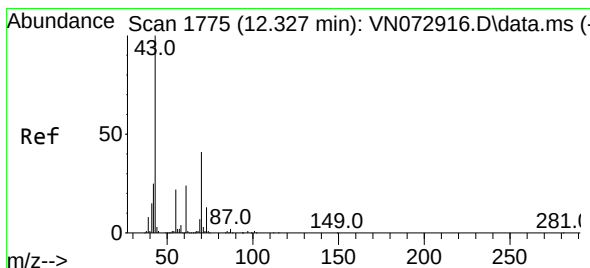
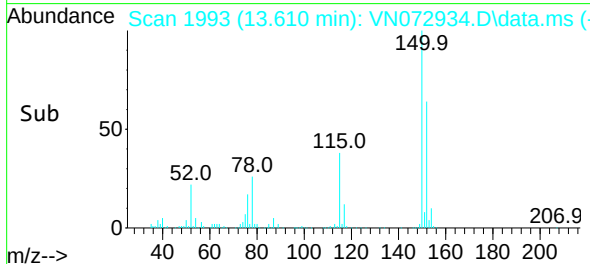
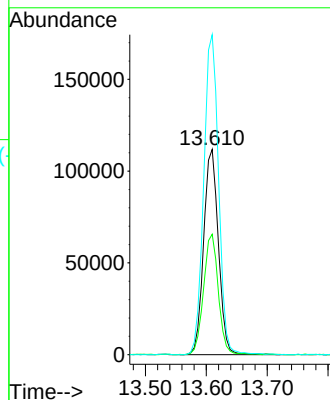
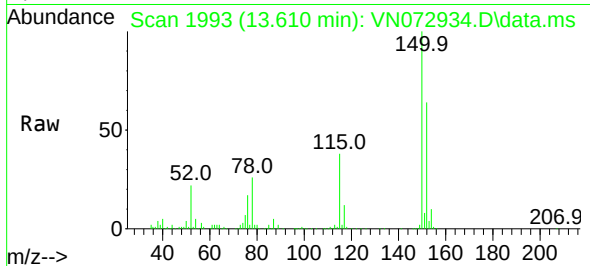




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. -0.000 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

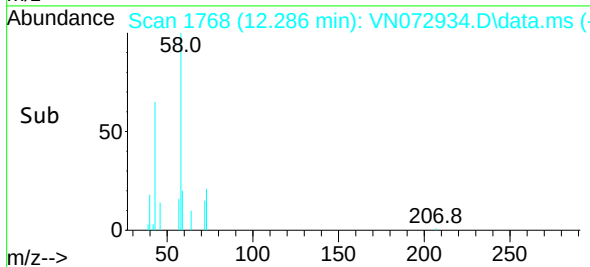
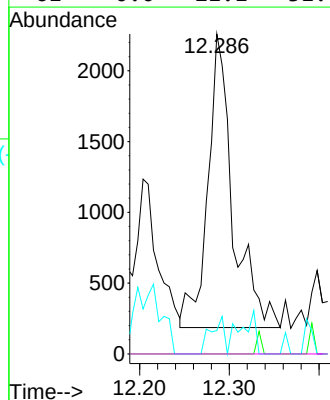
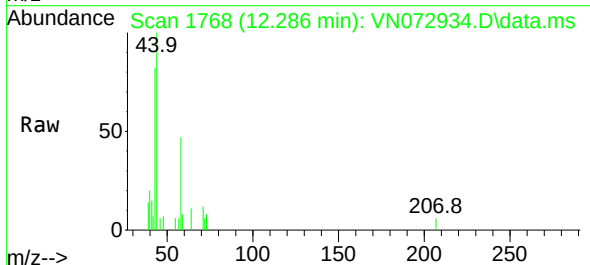
Instrument : MSVOA_N
ClientSampleId : PALMYRA-RT-73-COMP-1RE

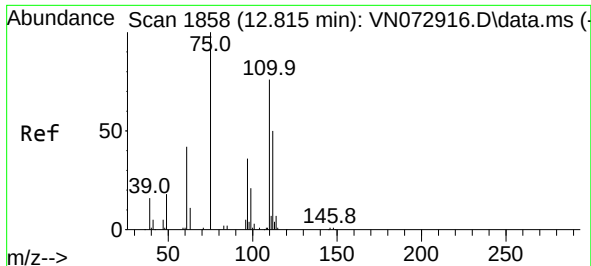
Tgt Ion:152 Resp: 188121
Ion Ratio Lower Upper
152 100
115 58.9 28.9 86.7
150 156.9 0.0 356.2



#74
N-ethyl acetate
Concen: 0.532 ug/l
RT: 12.286 min Scan# 1768
Delta R.T. -0.041 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 43 Resp: 4020
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 6.7 21.1 31.7#
61 0.0 21.1 31.7#

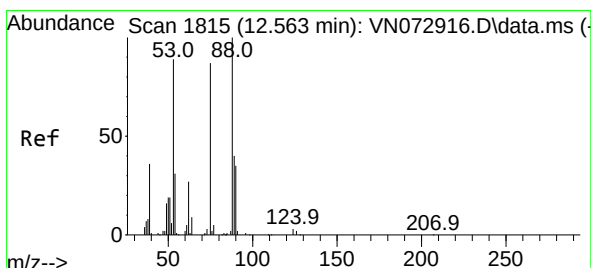
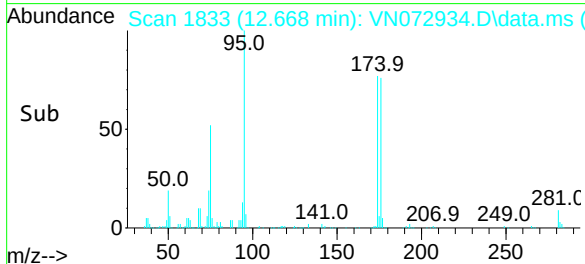
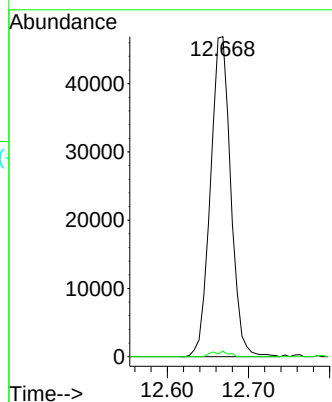
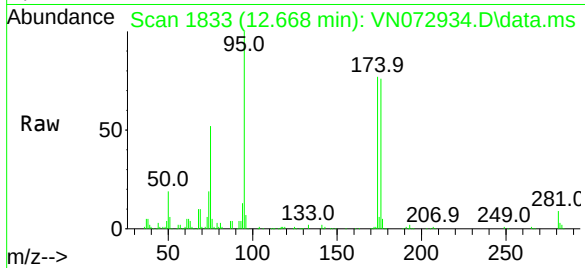




#76
1,2,3-Trichloropropane
Concen: 17.863 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.147 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

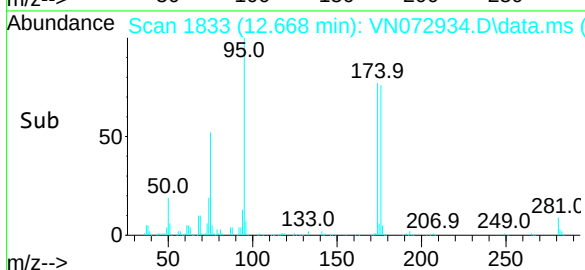
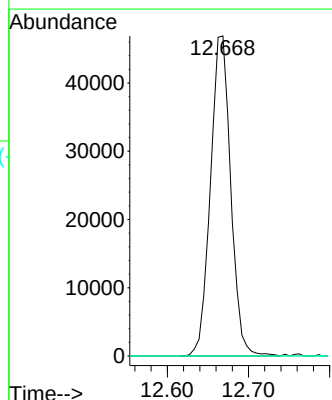
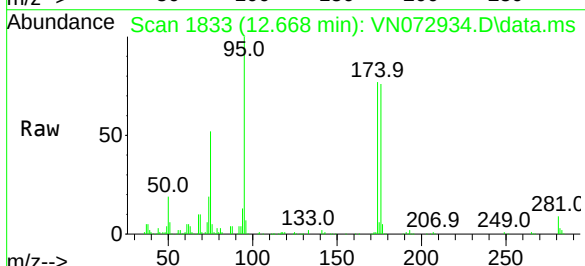
Instrument :
MSVOA_N
ClientSampleId :
PALMYRA-RT-73-COMP-1RE

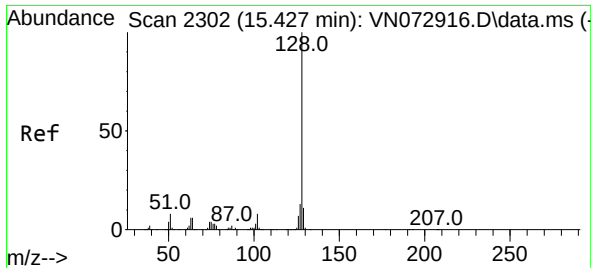
Tgt Ion: 75 Resp: 81473
Ion Ratio Lower Upper
75 100
77 0.7 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 48.242 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN072934.D
Acq: 18 Jun 2022 12:54

Tgt Ion: 75 Resp: 81473
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 0.209 ug/l

RT: 15.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN072934.D

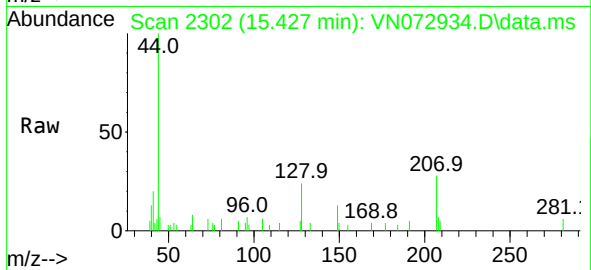
Acq: 18 Jun 2022 12:54

Instrument :

MSVOA_N

ClientSampleId :

PALMYRA-RT-73-COMP-1RE



Tgt Ion:128 Resp: 3035

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 3.0 8.6 13.0#

