

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120622\
 Data File : VN075587.D
 Acq On : 06 Dec 2022 16:14
 Operator : JC\MD
 Sample : N5876-01 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LIN-SIL-12-02DL

Quant Time: Dec 07 00:16:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112122W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 23 00:18:03 2022
 Response via : Initial Calibration

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

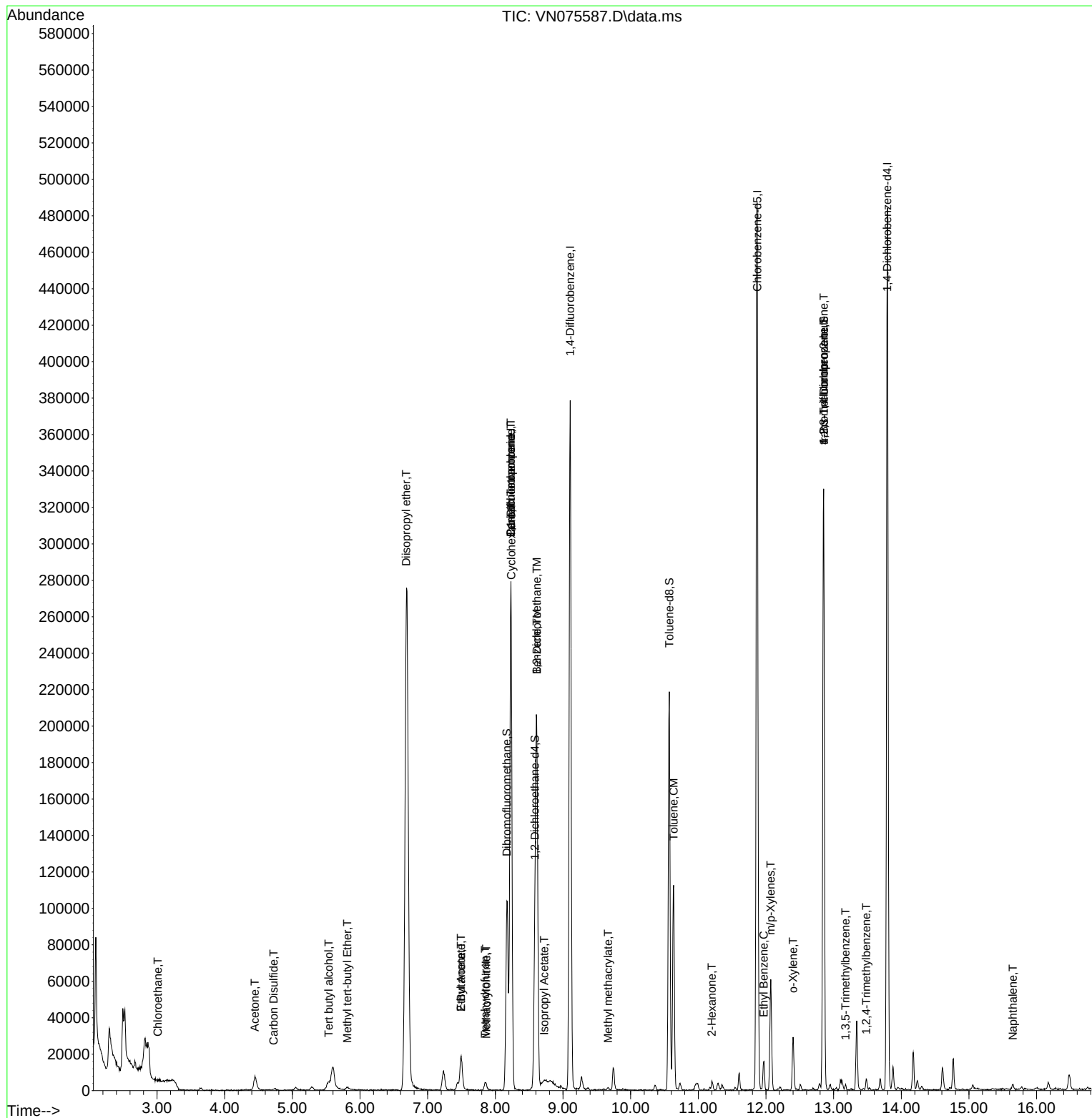
Internal Standards						
1) Pentafluorobenzene	8.230	168	221919	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.106	114	354198	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	306021	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	135869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	58213	48.868	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.740%
35) Dibromofluoromethane	8.171	113	75019	53.916	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	107.840%
50) Toluene-d8	10.571	98	155461	49.607	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.220%
62) 4-Bromofluorobenzene	12.853	95	112222	48.516	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.040%
Target Compounds						
						Qvalue
6) Chloroethane	3.012	64	1059	0.525	ug/l	# 45
11) Tert butyl alcohol	5.536	59	9827	19.651	ug/l	# 79
16) Acetone	4.448	43	14417	12.975	ug/l	95
17) Carbon Disulfide	4.724	76	1202	0.225	ug/l	# 74
18) Methyl Acetate	5.048	43	3323	Below Cal	#	81
19) Methyl tert-butyl Ether	5.812	73	2039	0.280	ug/l	97
20) Methylene Chloride	5.277	84	926	Below Cal	#	53
22) Diisopropyl ether	6.683	45	10581	1.744	ug/l	# 1
25) 2-Butanone	7.494	43	31459	20.279	ug/l	95
29) Tetrahydrofuran	7.847	42	3208	3.400	ug/l	97
31) Cyclohexane	8.236	56	4013	1.060	ug/l	# 11
36) 1,1-Dichloropropene	8.230	75	15036	4.955	ug/l	# 49
37) Ethyl Acetate	7.494	43	31459	11.514	ug/l	# 66
38) Carbon Tetrachloride	8.230	117	21293	6.388	ug/l	# 16
40) Benzene	8.612	78	208780	22.473	ug/l	98
41) Methacrylonitrile	7.865	41	2073	1.484	ug/l	# 28
42) 1,2-Dichloroethane	8.612	62	1784	0.573	ug/l	# 75
43) Isopropyl Acetate	8.724	43	5567	1.269	ug/l	# 53
48) Methyl methacrylate	9.665	41	556	0.274	ug/l	# 6
52) Toluene	10.635	92	52723	8.807	ug/l	100
59) 2-Hexanone	11.200	43	1031	0.492	ug/l	# 41
67) Ethyl Benzene	11.965	91	13154	1.220	ug/l	91
68) m/p-Xylenes	12.071	106	20302	4.637	ug/l	96
69) o-Xylene	12.400	106	8582	1.973	ug/l	97
76) 1,2,3-Trichloropropane	12.853	75	56965	22.175	ug/l	# 1
80) 1,3,5-Trimethylbenzene	13.176	105	2003	0.243	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.853	75	56965	65.610	ug/l	# 10
84) 1,2,4-Trimethylbenzene	13.482	105	4352	0.526	ug/l	97
95) Naphthalene	15.647	128	1947	0.267	ug/l	# 85

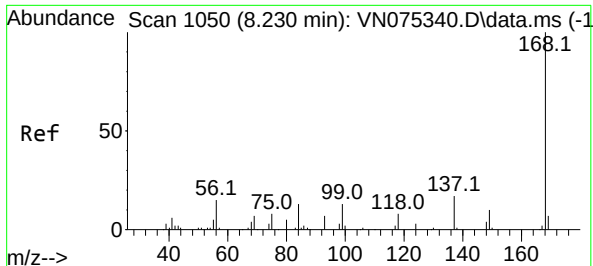
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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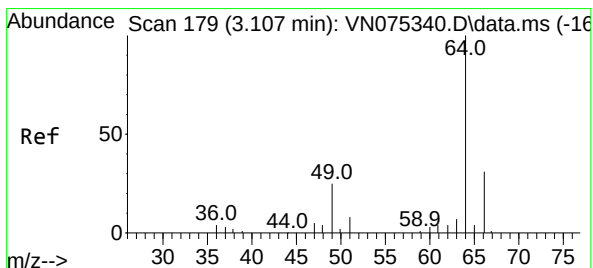
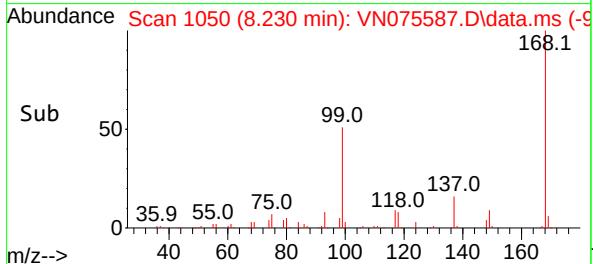
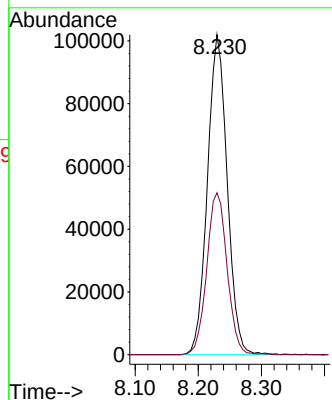
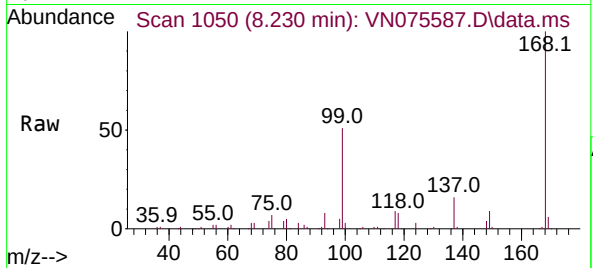




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

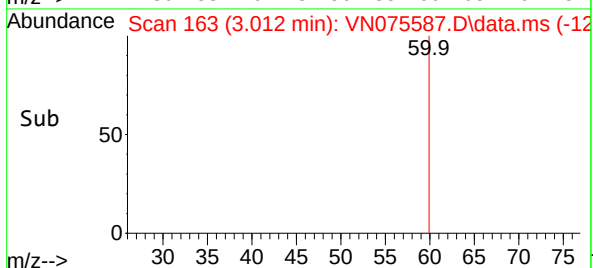
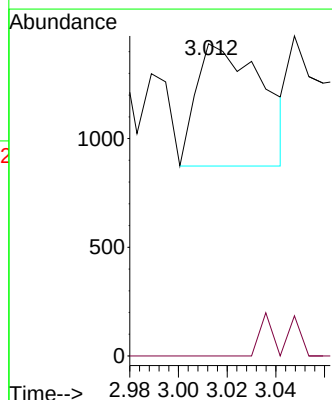
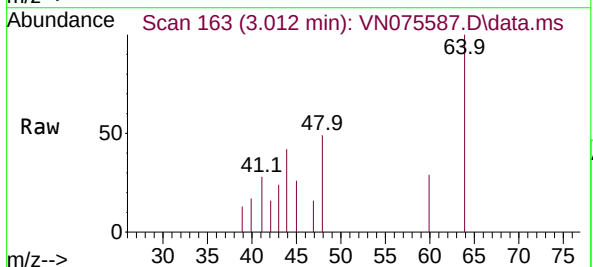
Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

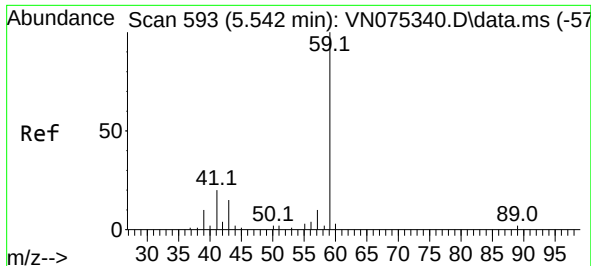
Tgt Ion:168 Resp: 221919
Ion Ratio Lower Upper
168 100
99 50.6 51.6 77.4#



#6
Chloroethane
Concen: 0.525 ug/l
RT: 3.012 min Scan# 163
Delta R.T. -0.095 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion: 64 Resp: 1059
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#

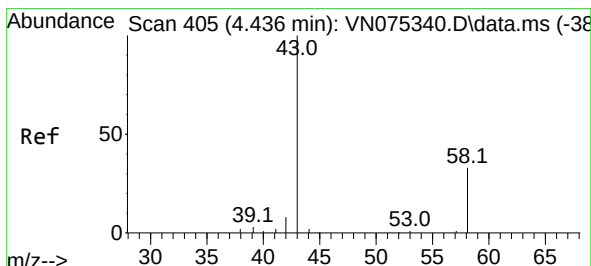
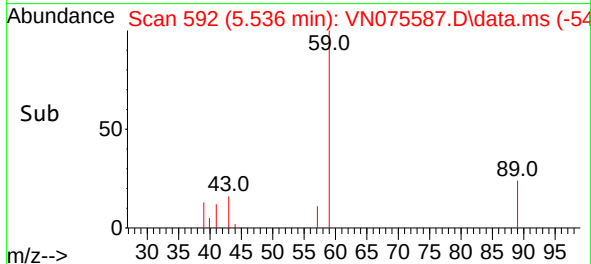
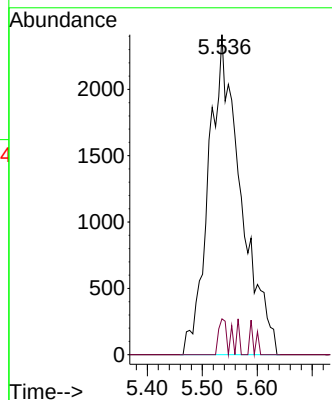
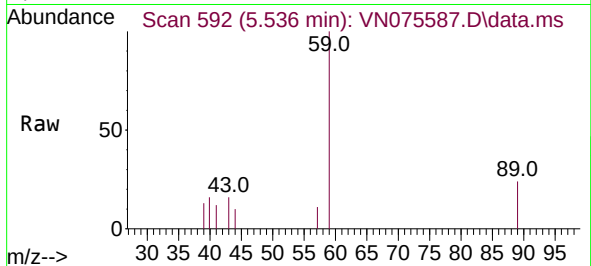




#11
Tert butyl alcohol
Concen: 19.651 ug/l
RT: 5.536 min Scan# 591
Delta R.T. -0.006 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

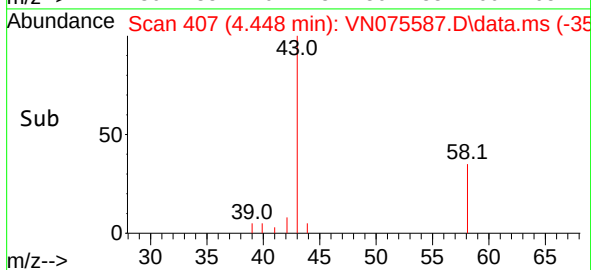
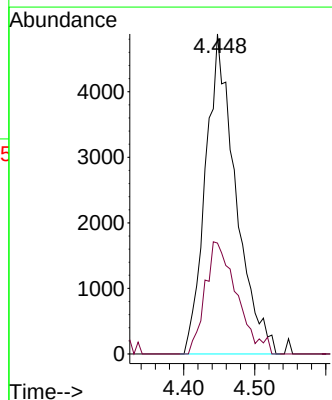
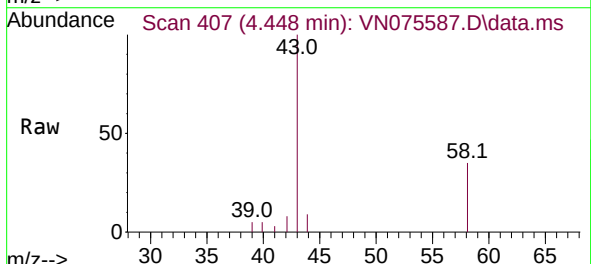
Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

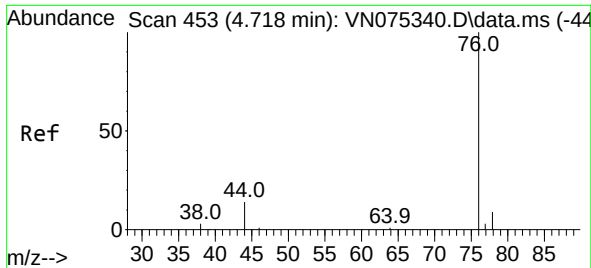
Tgt Ion: 59 Resp: 9827
Ion Ratio Lower Upper
59 100
57 2.6 8.5 12.7#



#16
Acetone
Concen: 12.975 ug/l
RT: 4.448 min Scan# 407
Delta R.T. 0.012 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion: 43 Resp: 14417
Ion Ratio Lower Upper
43 100
58 34.6 25.5 38.3

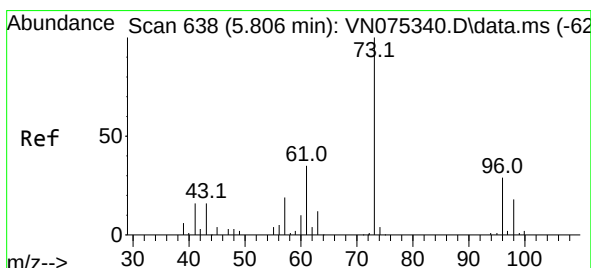
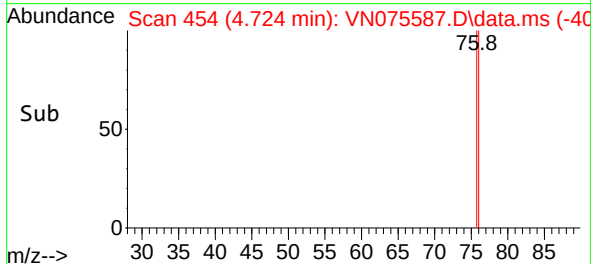
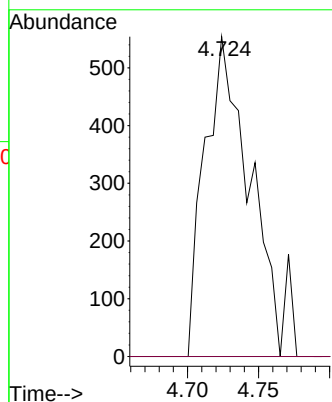
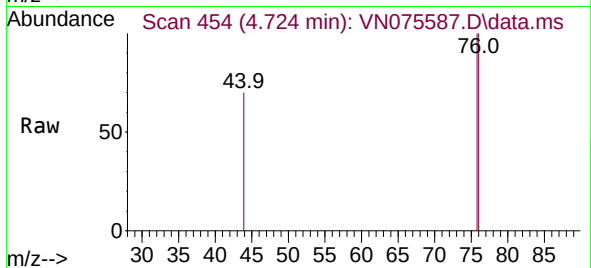




#17
Carbon Disulfide
Concen: 0.225 ug/l
RT: 4.724 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

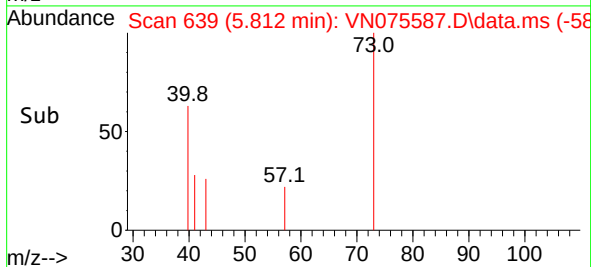
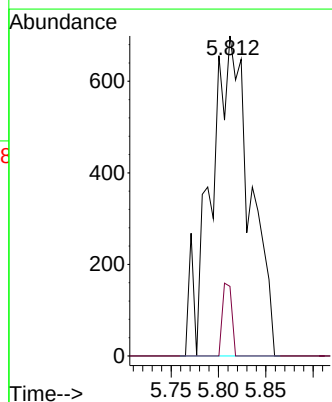
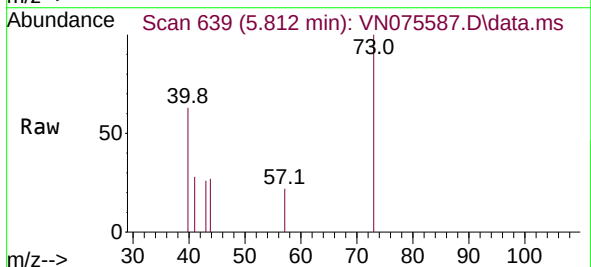
Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

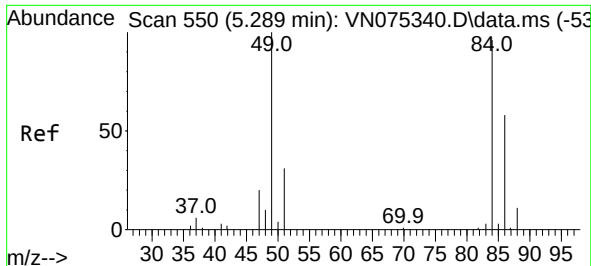
Tgt Ion: 76 Resp: 1202
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#19
Methyl tert-butyl Ether
Concen: 0.280 ug/l
RT: 5.812 min Scan# 639
Delta R.T. 0.006 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

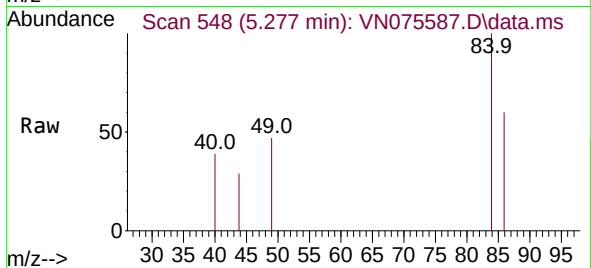
Tgt Ion: 73 Resp: 2039
Ion Ratio Lower Upper
73 100
57 21.7 16.3 24.5



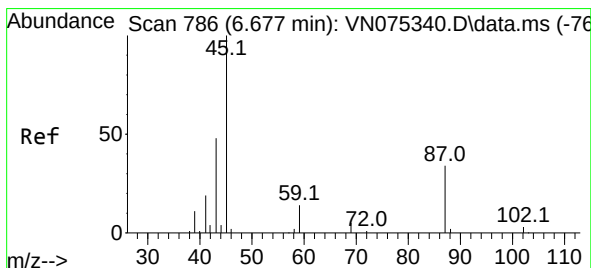
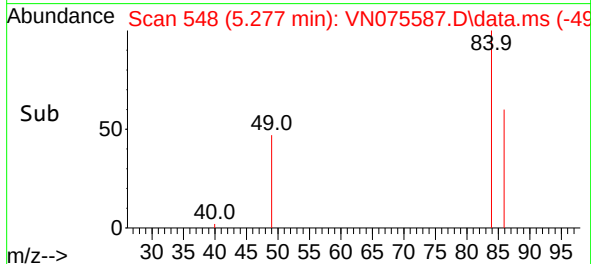
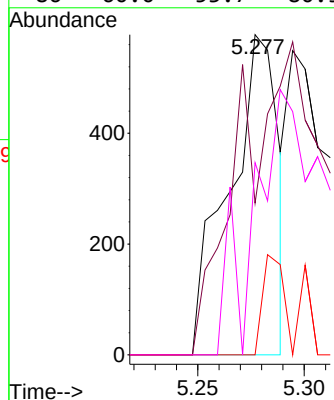


#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 54
Delta R.T. -0.012 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

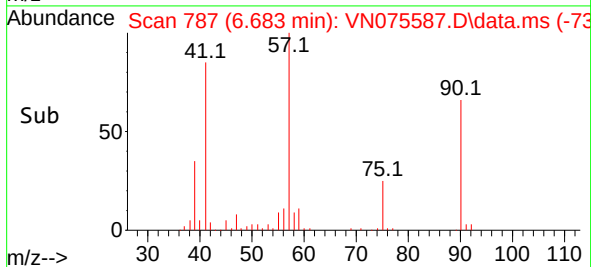
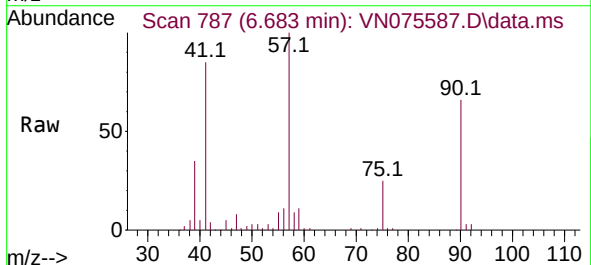
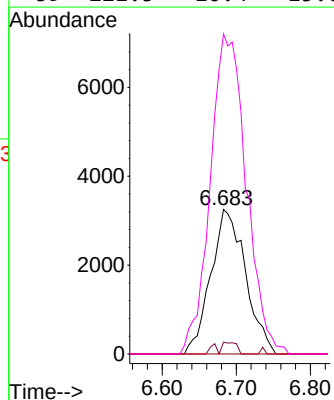


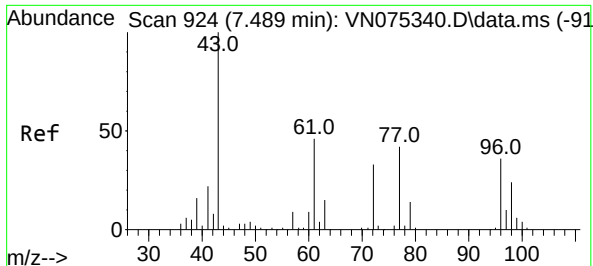
Tgt Ion: 84	Resp: 926
Ion Ratio	Lower Upper
84 100	
49 47.4	94.9 142.3#
51 0.0	26.8 40.2#
86 60.0	53.7 80.5



#22
Diisopropyl ether
Concen: 1.744 ug/l
RT: 6.683 min Scan# 787
Delta R.T. 0.006 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion: 45	Resp: 10581
Ion Ratio	Lower Upper
45 100	
43 8.1	42.8 64.2#
87 0.0	28.4 42.6#
59 221.5	10.4 15.6#





#25

2-Butanone

Concen: 20.279 ug/l

RT: 7.494 min Scan# 91

Delta R.T. 0.005 min

Lab File: VN075587.D

Acq: 06 Dec 2022 16:14

Instrument :

MSVOA_N

ClientSampleId :

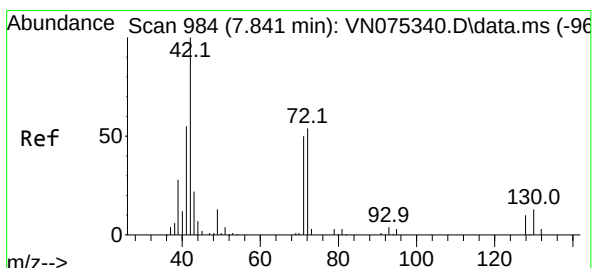
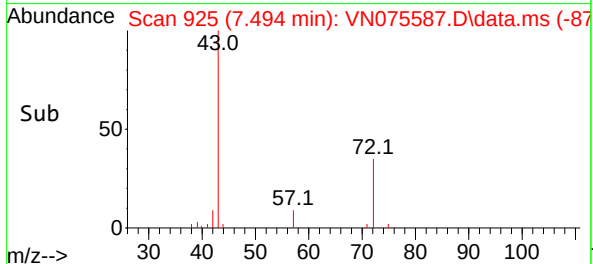
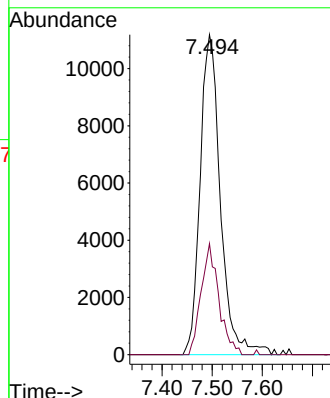
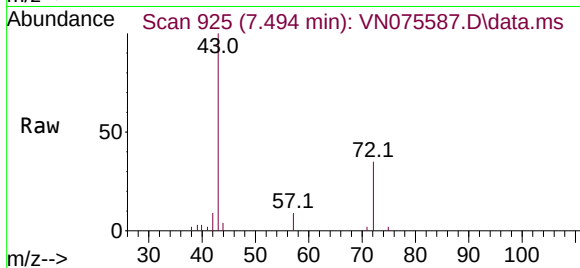
LIN-SIL-12-02DL

Tgt Ion: 43 Resp: 31459

Ion Ratio Lower Upper

43 100

72 34.7 25.5 38.3



#29

Tetrahydrofuran

Concen: 3.400 ug/l

RT: 7.847 min Scan# 985

Delta R.T. 0.006 min

Lab File: VN075587.D

Acq: 06 Dec 2022 16:14

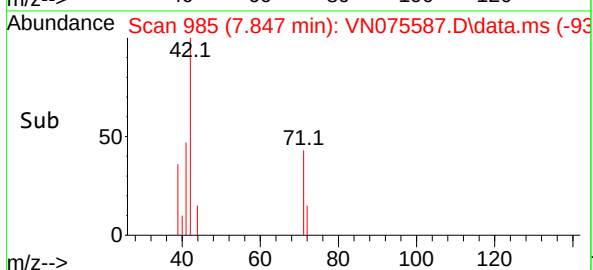
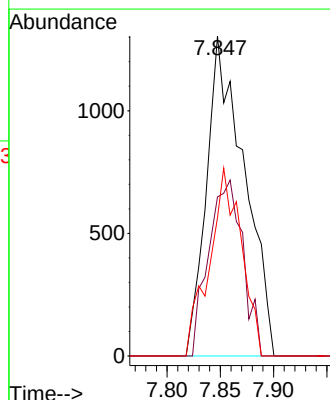
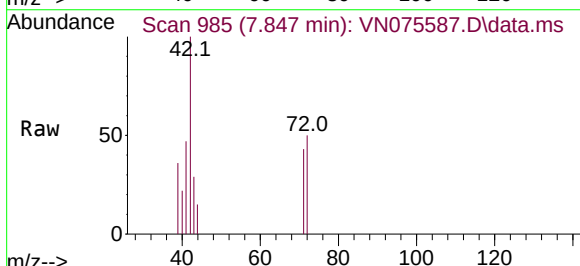
Tgt Ion: 42 Resp: 3208

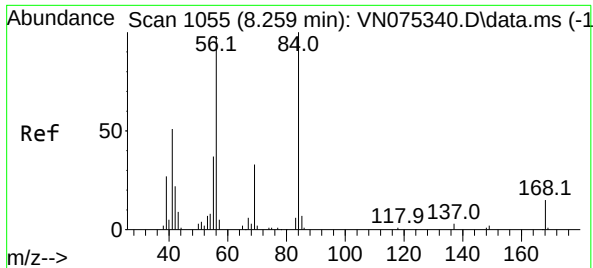
Ion Ratio Lower Upper

42 100

72 50.0 43.0 64.6

71 49.8 39.9 59.9

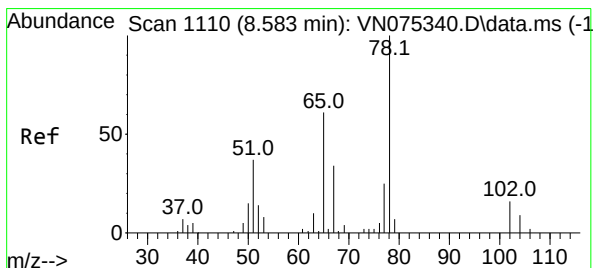
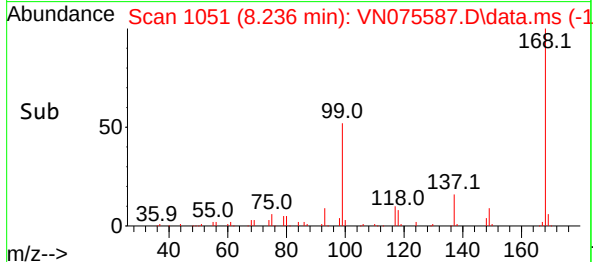
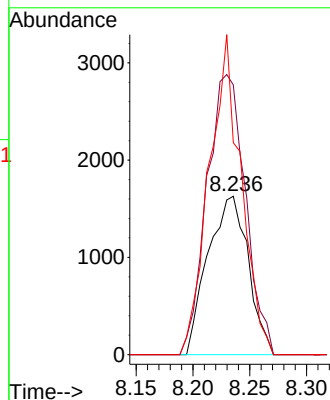
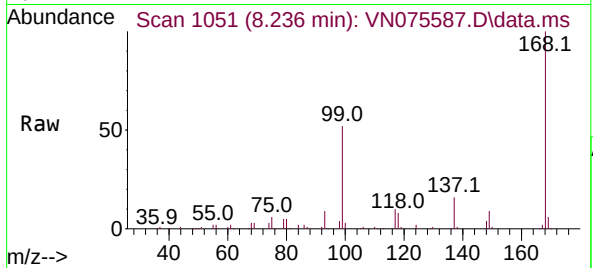




#31
Cyclohexane
Concen: 1.060 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.023 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

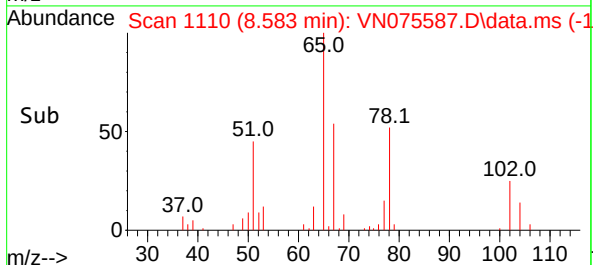
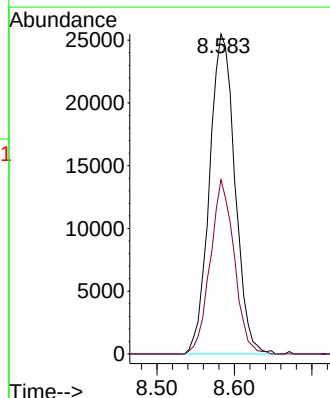
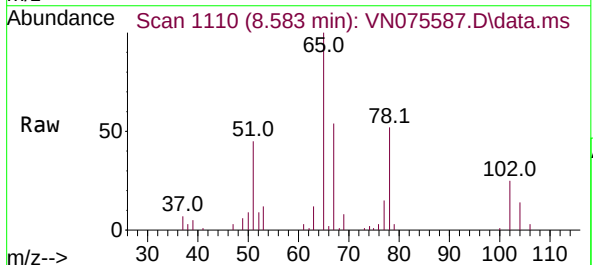
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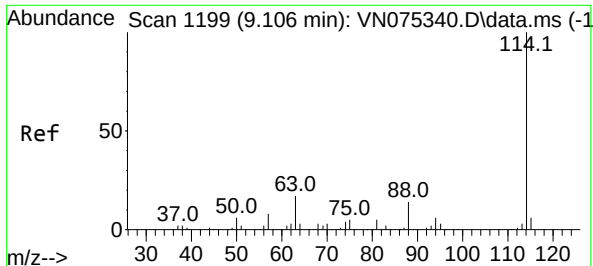
Tgt Ion: 56 Resp: 4013
Ion Ratio Lower Upper
56 100
69 170.3 25.2 37.8#
84 133.8 77.8 116.8#



#33
1,2-Dichloroethane-d4
Concen: 48.868 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion: 65 Resp: 58213
Ion Ratio Lower Upper
65 100
67 51.2 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075587.D

Acq: 06 Dec 2022 16:14

Instrument :

MSVOA_N

ClientSampleId :

LIN-SIL-12-02DL

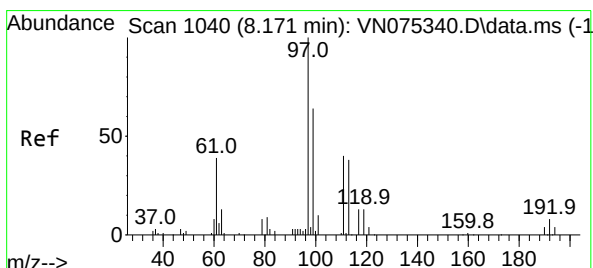
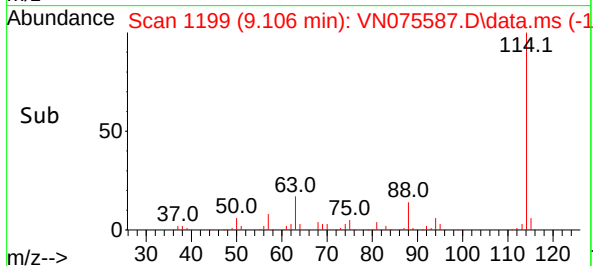
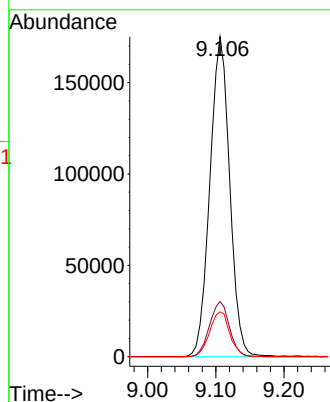
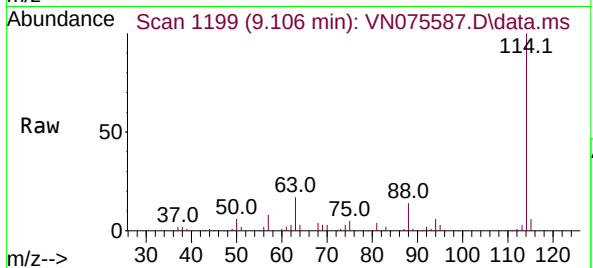
Tgt Ion:114 Resp: 354198

Ion Ratio Lower Upper

114 100

63 17.2 0.0 39.6

88 14.0 0.0 29.0



#35

Dibromofluoromethane

Concen: 53.916 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075587.D

Acq: 06 Dec 2022 16:14

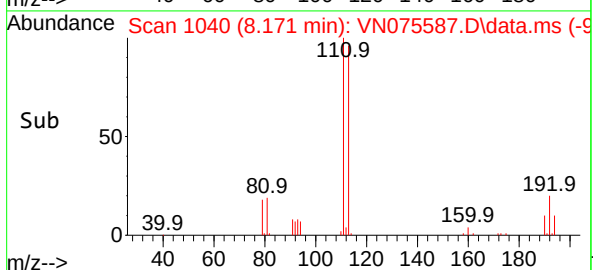
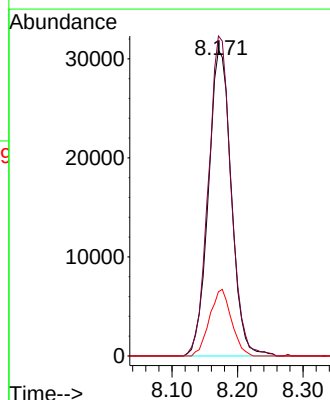
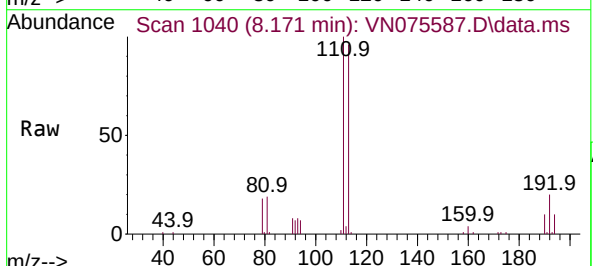
Tgt Ion:113 Resp: 75019

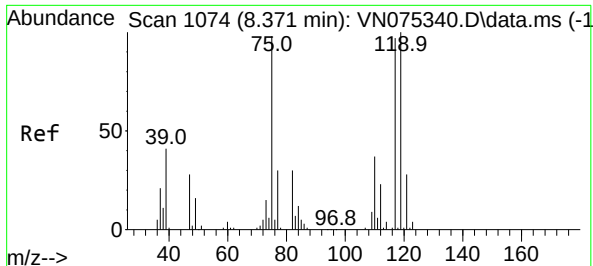
Ion Ratio Lower Upper

113 100

111 103.5 80.5 120.7

192 20.7 13.2 19.8#





#36

1,1-Dichloropropene

Concen: 4.955 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN075587.D

Acq: 06 Dec 2022 16:14

Instrument :

MSVOA_N

ClientSampleId :

LIN-SIL-12-02DL

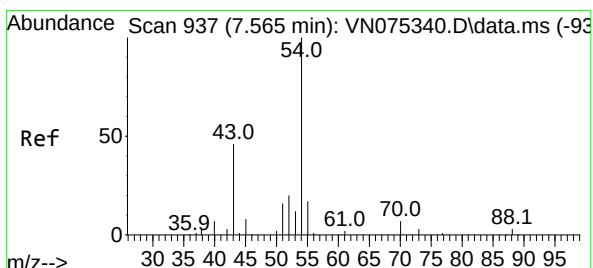
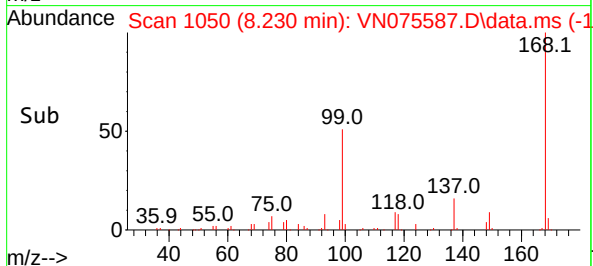
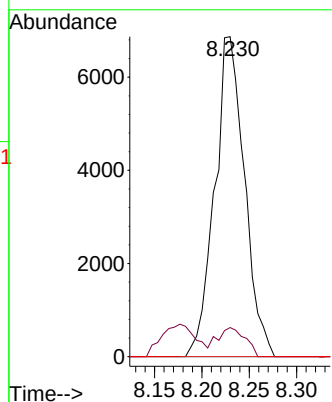
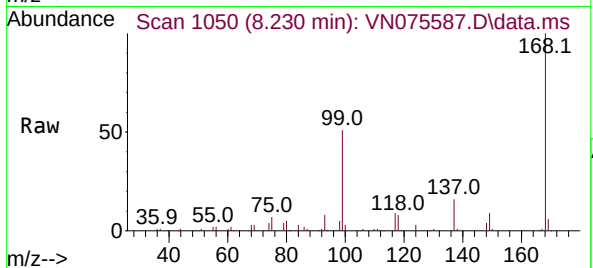
Tgt Ion: 75 Resp: 15036

Ion Ratio Lower Upper

75 100

110 8.5 17.8 53.3#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 11.514 ug/l

RT: 7.494 min Scan# 925

Delta R.T. -0.071 min

Lab File: VN075587.D

Acq: 06 Dec 2022 16:14

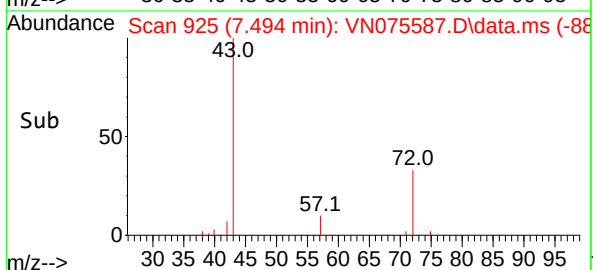
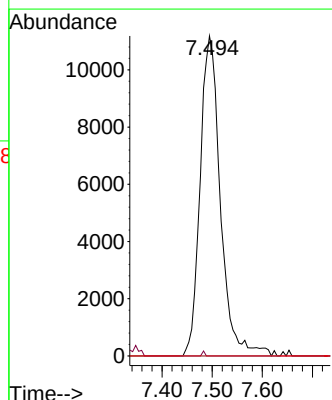
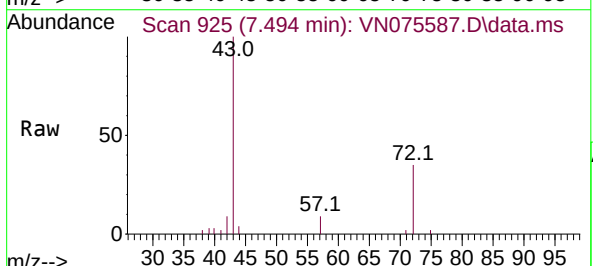
Tgt Ion: 43 Resp: 31459

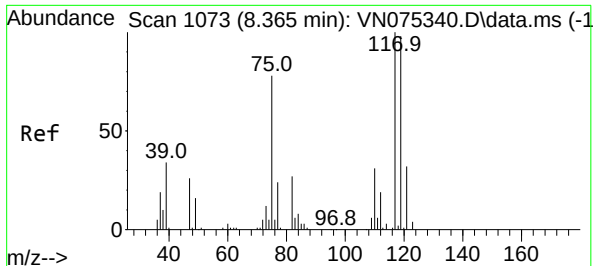
Ion Ratio Lower Upper

43 100

61 0.2 12.2 18.4#

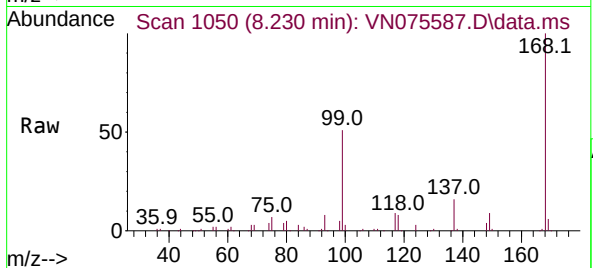
70 0.0 9.4 14.2#



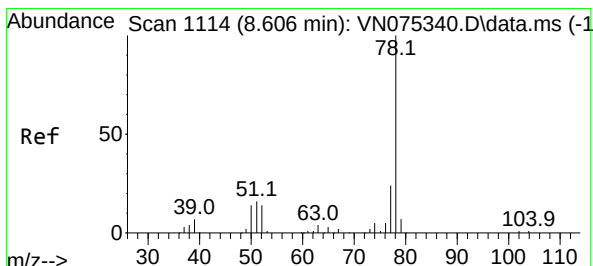
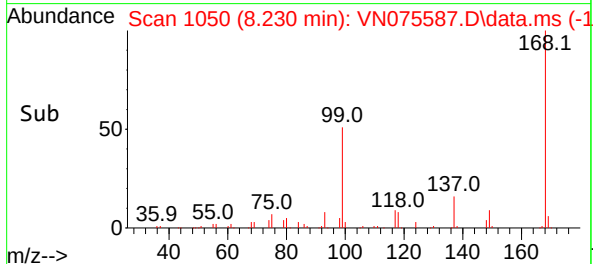
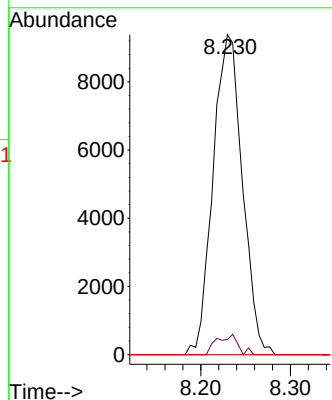


#38
Carbon Tetrachloride
Concen: 6.388 ug/l
RT: 8.230 min Scan# 1105
Delta R.T. -0.135 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

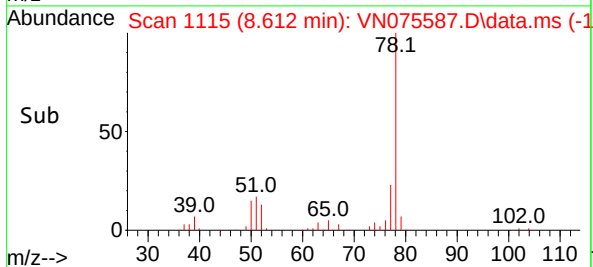
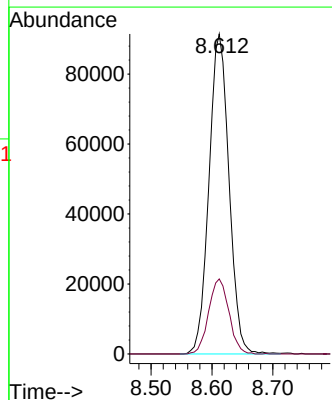
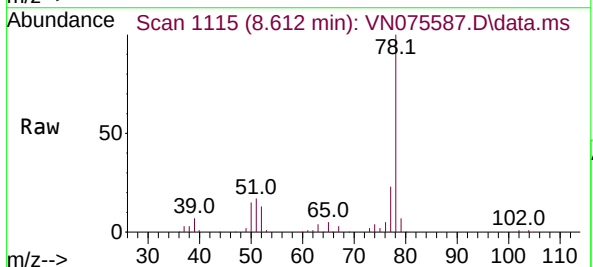


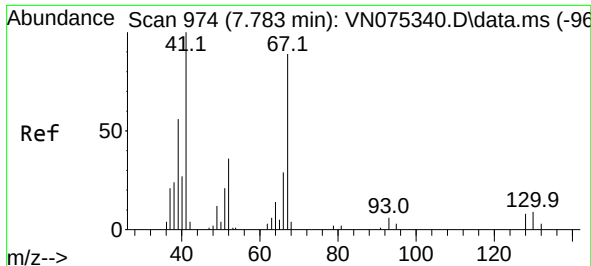
Tgt Ion:117 Resp: 21293
Ion Ratio Lower Upper
117 100
119 4.7 76.7 115.1#
121 0.0 23.9 35.9#



#40
Benzene
Concen: 22.473 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. 0.006 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion: 78 Resp: 208780
Ion Ratio Lower Upper
78 100
77 23.4 19.4 29.0

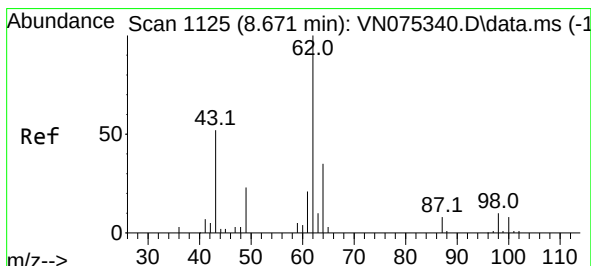
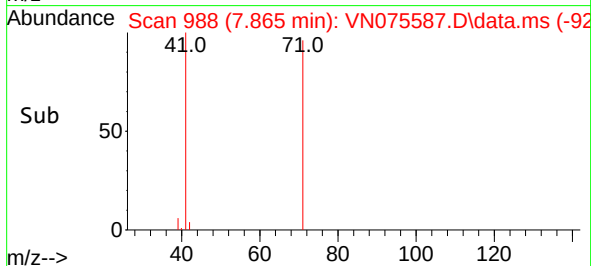
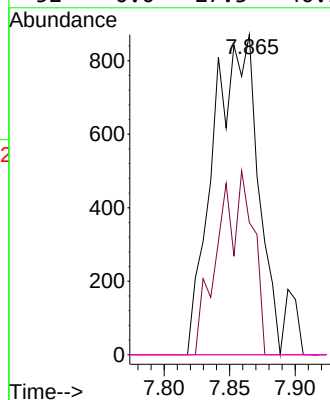
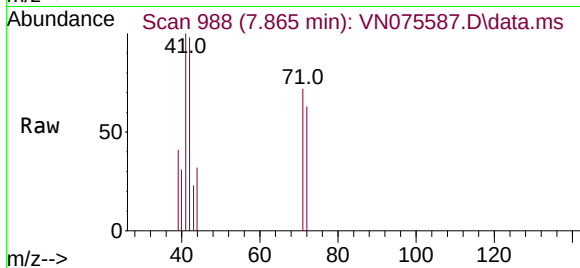




#41
Methacrylonitrile
Concen: 1.484 ug/l
RT: 7.865 min Scan# 911
Delta R.T. 0.082 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

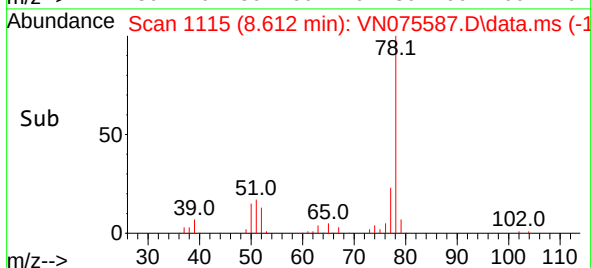
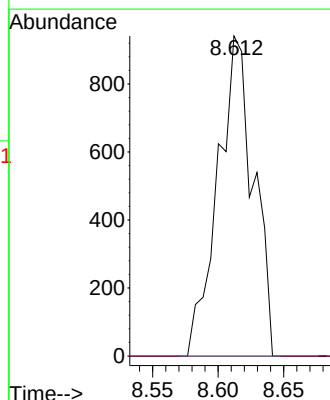
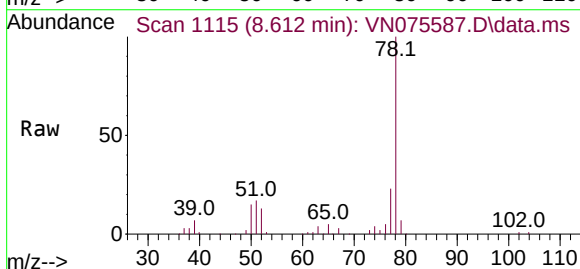
Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

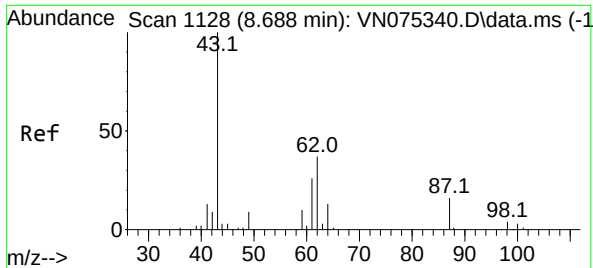
Tgt Ion:	41	Resp:	2073
Ion	Ratio	Lower	Upper
41	100		
39	23.9	44.4	66.6#
67	0.0	69.8	104.6#
52	0.0	27.3	40.9#



#42
1,2-Dichloroethane
Concen: 0.573 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. -0.059 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion:	62	Resp:	1784
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	18.2

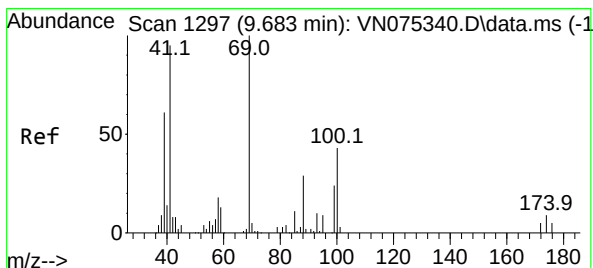
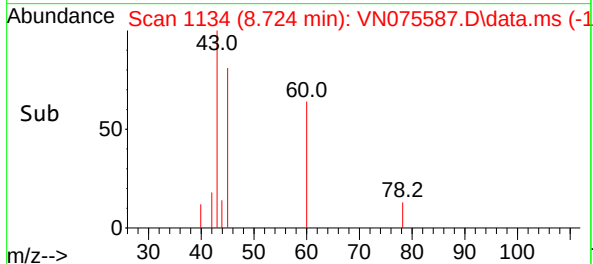
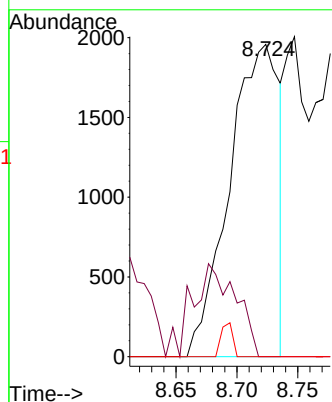
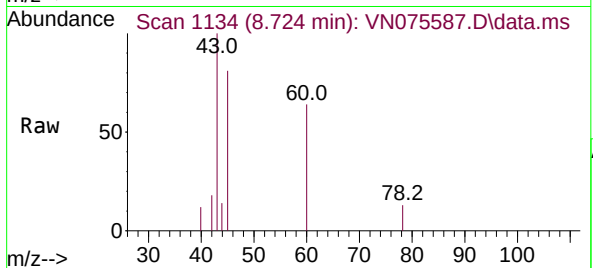




#43
Isopropyl Acetate
Concen: 1.269 ug/l
RT: 8.724 min Scan# 1128
Delta R.T. 0.036 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

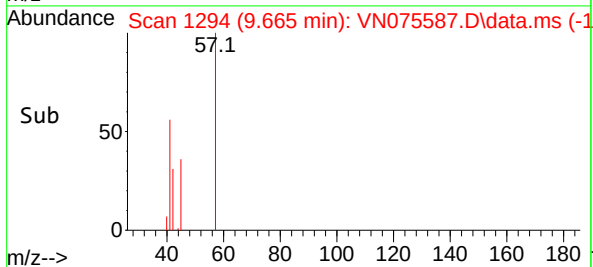
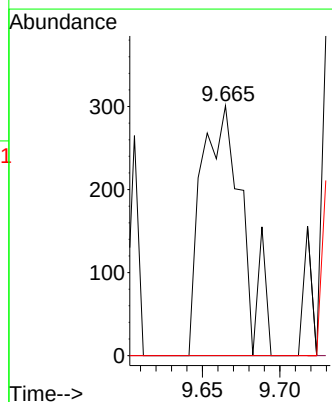
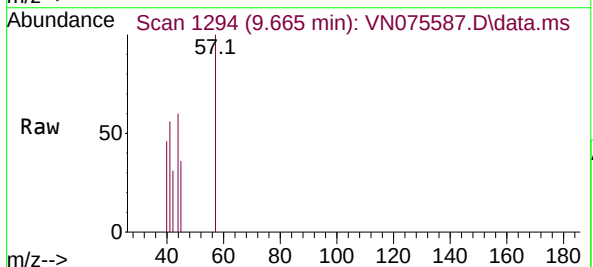
Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

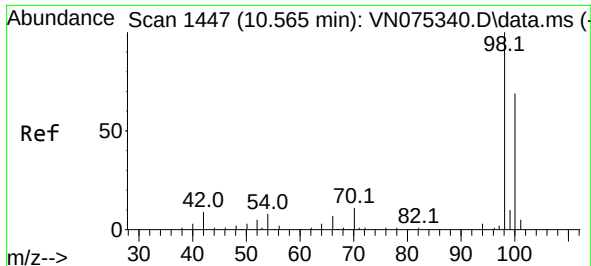
Tgt Ion: 43 Resp: 5567
Ion Ratio Lower Upper
43 100
61 0.0 22.4 33.6#
87 0.0 12.5 18.7#



#48
Methyl methacrylate
Concen: 0.274 ug/l
RT: 9.665 min Scan# 1294
Delta R.T. -0.018 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion: 41 Resp: 556
Ion Ratio Lower Upper
41 100
69 0.0 80.2 120.2#
39 0.0 56.2 84.2#

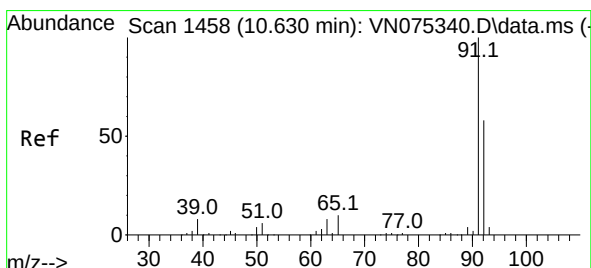
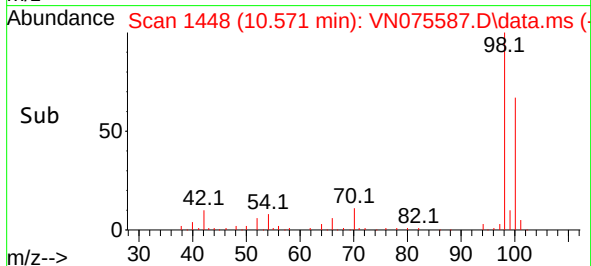
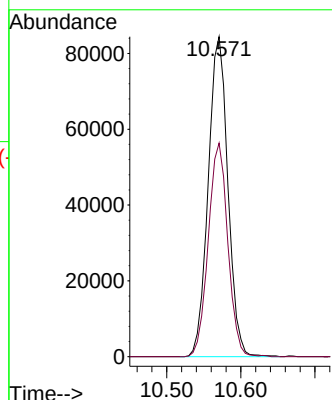
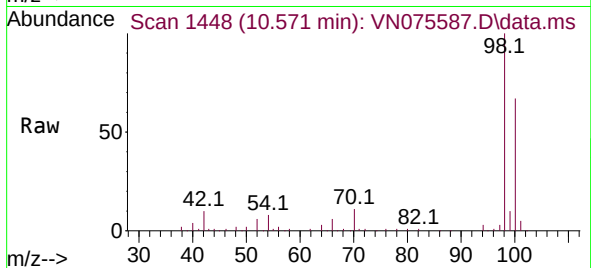




#50
Toluene-d8
Concen: 49.607 ug/l
RT: 10.571 min Scan# 1447
Delta R.T. 0.006 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

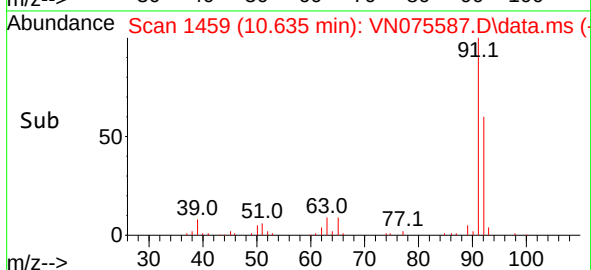
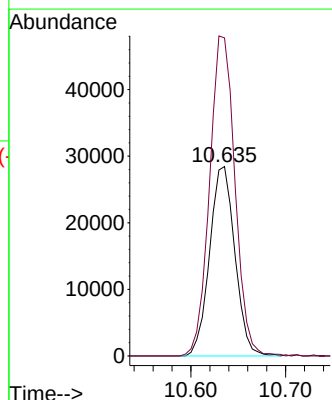
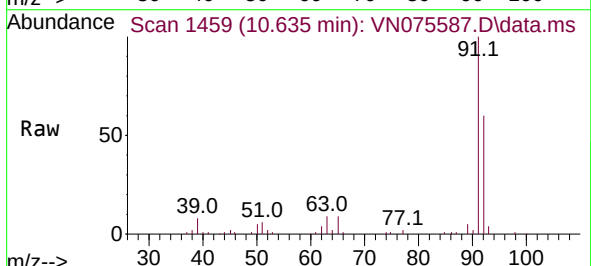
Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

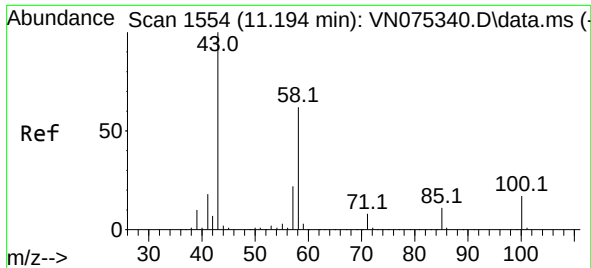
Tgt Ion: 98 Resp: 155461
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.6



#52
Toluene
Concen: 8.807 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. 0.005 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion: 92 Resp: 52723
Ion Ratio Lower Upper
92 100
91 169.7 135.4 203.2

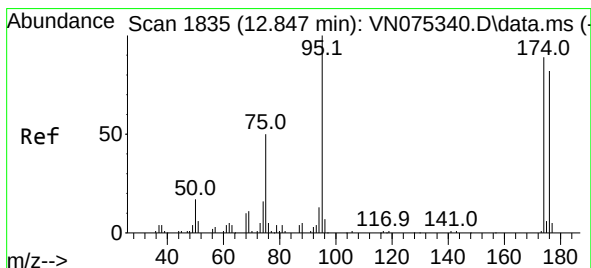
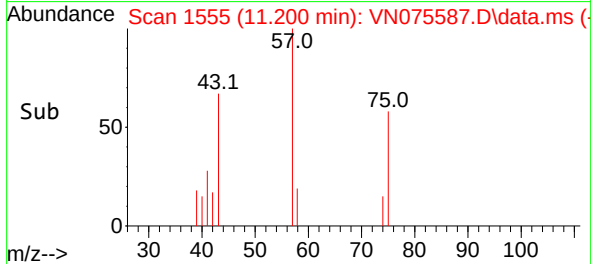
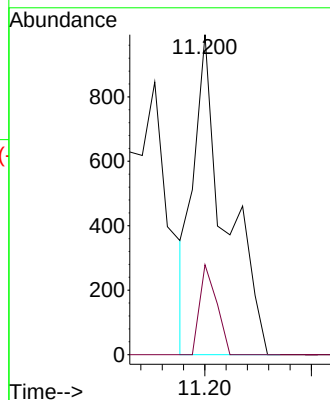
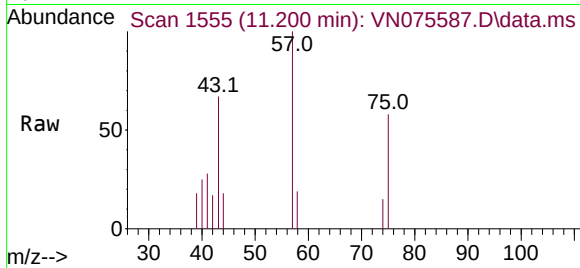




#59
2-Hexanone
Concen: 0.492 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

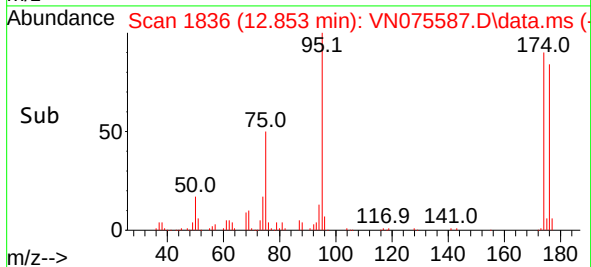
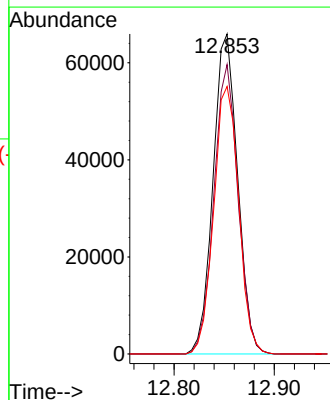
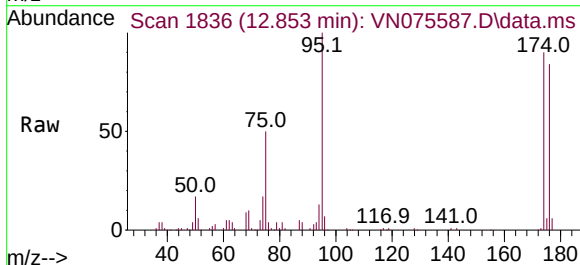
Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

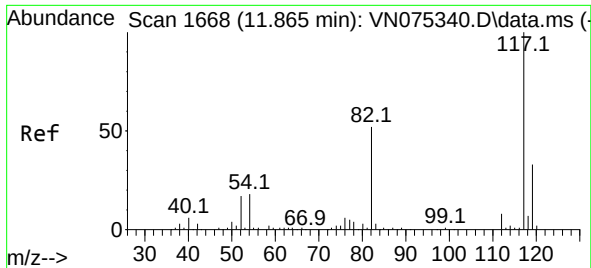
Tgt Ion: 43 Resp: 1031
Ion Ratio Lower Upper
43 100
58 14.8 29.6 88.8#



#62
4-Bromofluorobenzene
Concen: 48.516 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion: 95 Resp: 112222
Ion Ratio Lower Upper
95 100
174 89.0 0.0 147.4
176 85.0 0.0 142.2

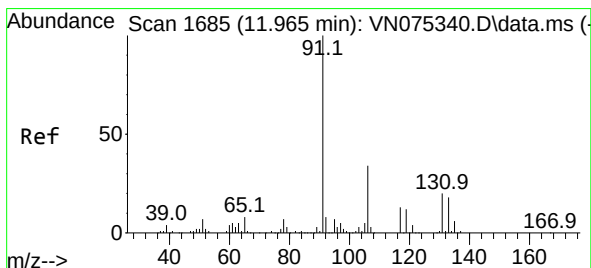
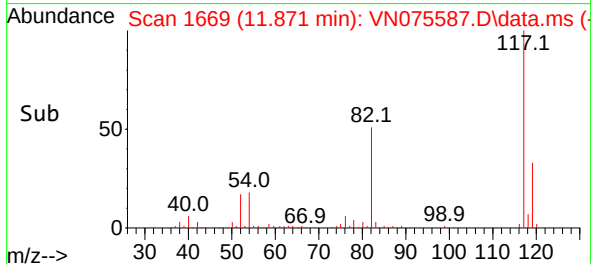
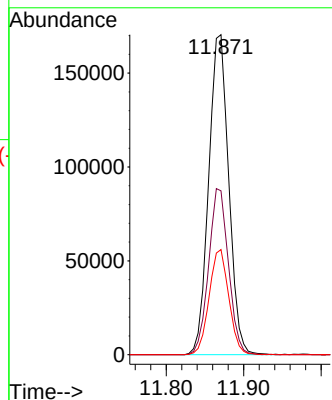
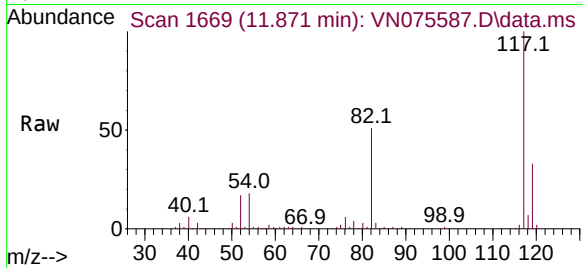




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

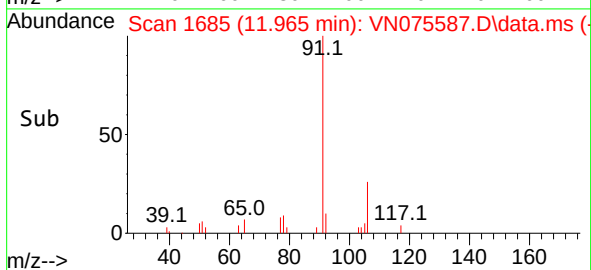
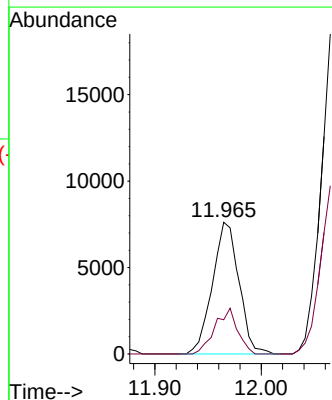
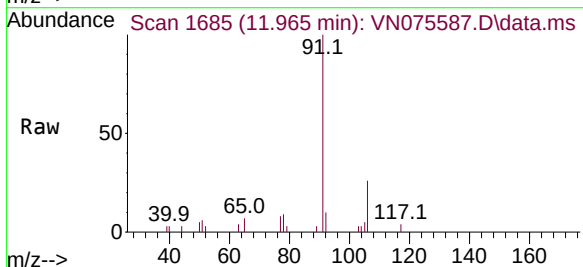
Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

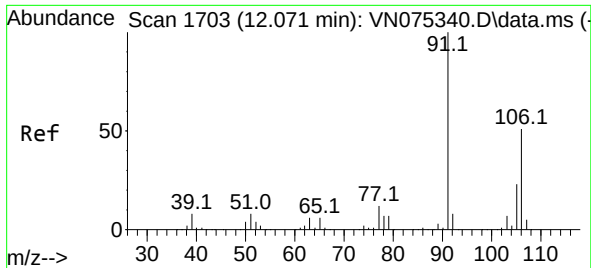
Tgt Ion:117 Resp: 306021
Ion Ratio Lower Upper
117 100
82 51.2 43.1 64.7
119 32.9 25.5 38.3



#67
Ethyl Benzene
Concen: 1.220 ug/l
RT: 11.965 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion: 91 Resp: 13154
Ion Ratio Lower Upper
91 100
106 26.0 24.9 37.3

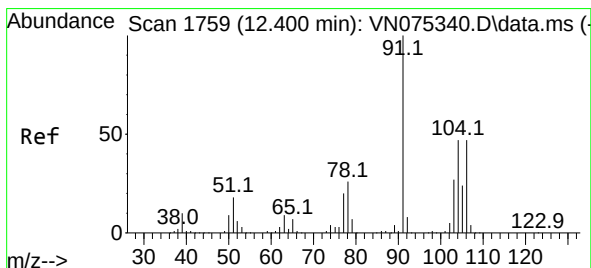
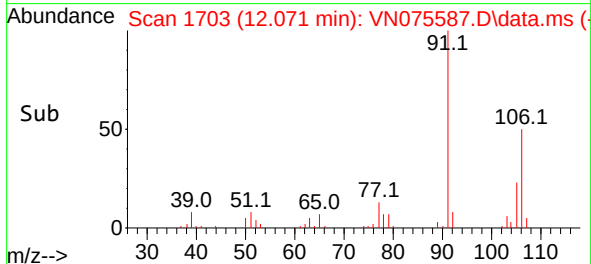
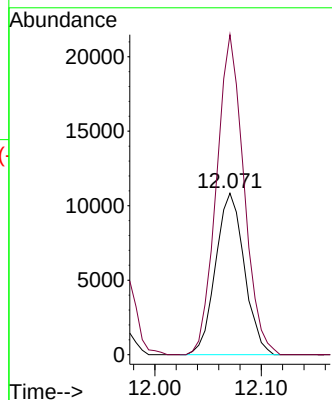
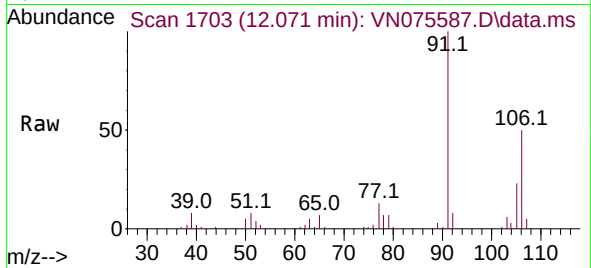




#68
m/p-Xylenes
Concen: 4.637 ug/l
RT: 12.071 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

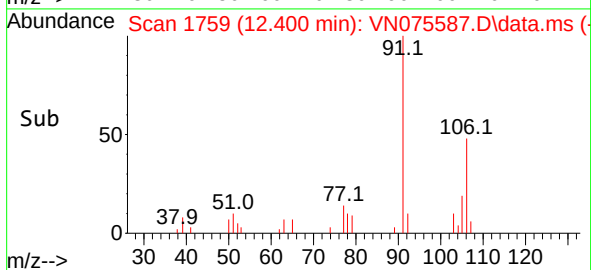
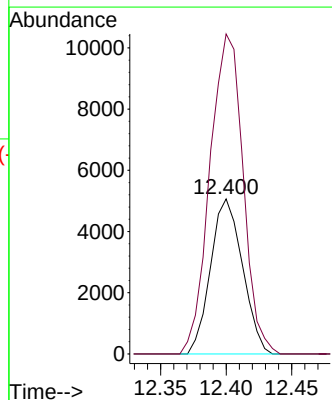
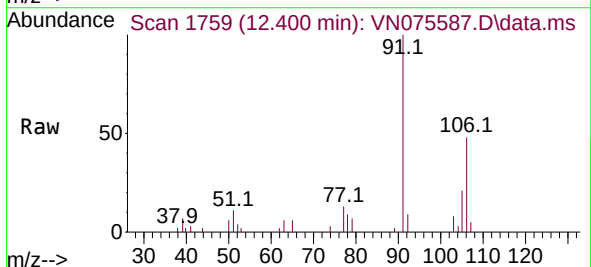
Instrument :
MSVOA_N
ClientSampleId :
LIN-SIL-12-02DL

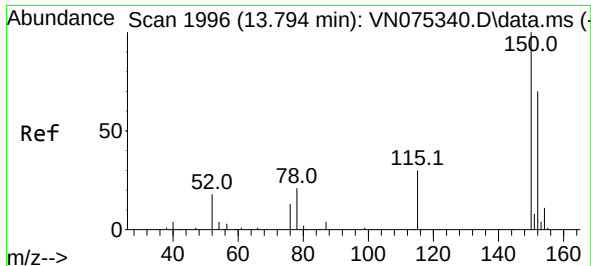
Tgt Ion:106 Resp: 20302
Ion Ratio Lower Upper
106 100
91 189.4 156.0 234.0



#69
o-Xylene
Concen: 1.973 ug/l
RT: 12.400 min Scan# 1759
Delta R.T. -0.000 min
Lab File: VN075587.D
Acq: 06 Dec 2022 16:14

Tgt Ion:106 Resp: 8582
Ion Ratio Lower Upper
106 100
91 214.6 105.2 315.5

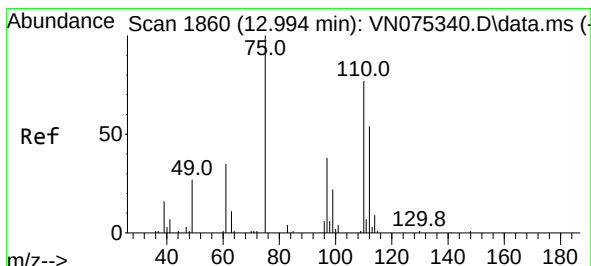
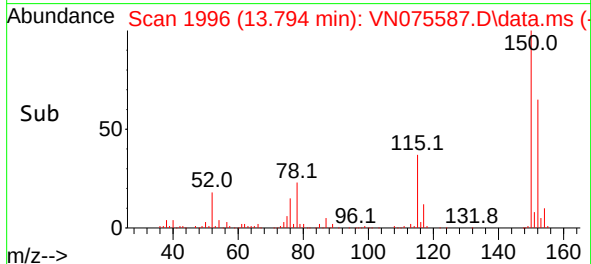
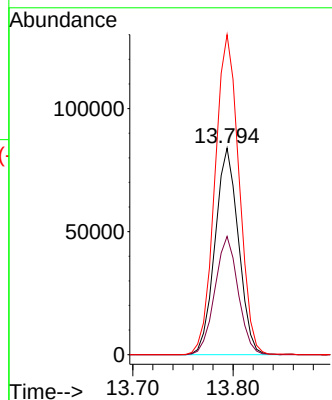
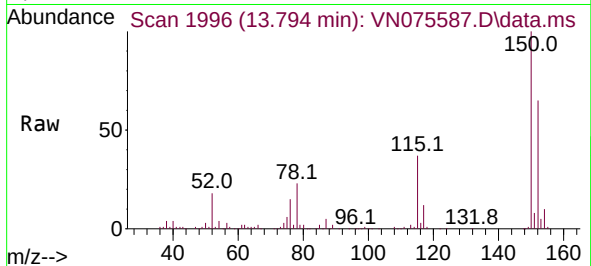




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VN075587.D
 Acq: 06 Dec 2022 16:14

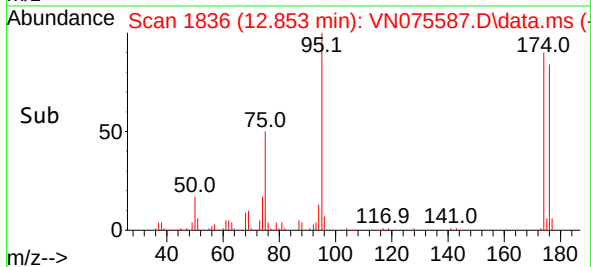
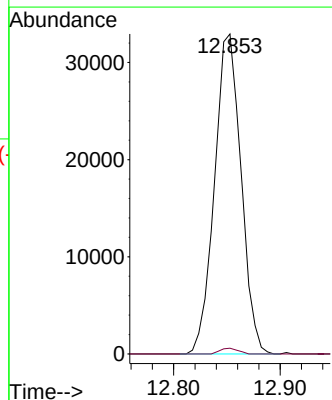
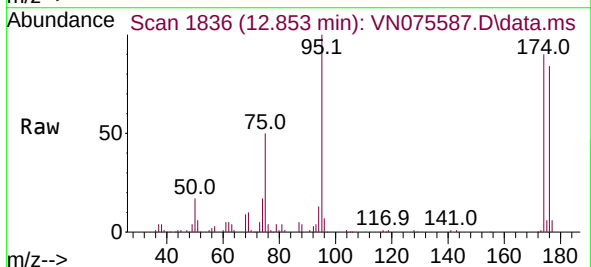
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 ClientSampleId :
 LIN-SIL-12-02DL

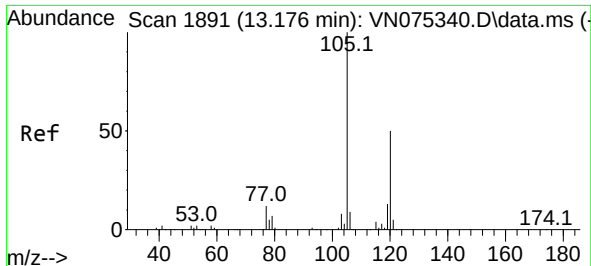
Tgt Ion:152 Resp: 135869
 Ion Ratio Lower Upper
 152 100
 115 57.1 30.2 90.6
 150 159.6 0.0 348.4



#76
 1,2,3-Trichloropropane
 Concen: 22.175 ug/l
 RT: 12.853 min Scan# 1836
 Delta R.T. -0.141 min
 Lab File: VN075587.D
 Acq: 06 Dec 2022 16:14

Tgt Ion: 75 Resp: 56965
 Ion Ratio Lower Upper
 75 100
 77 1.2 75.6 226.8#

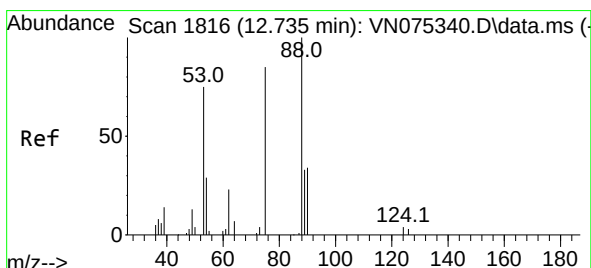
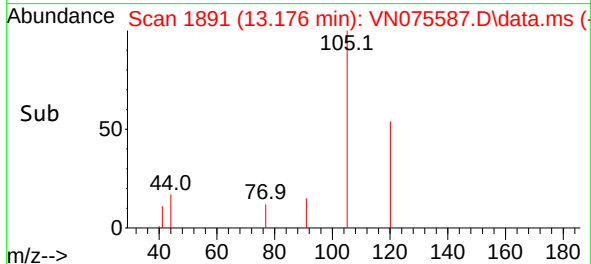
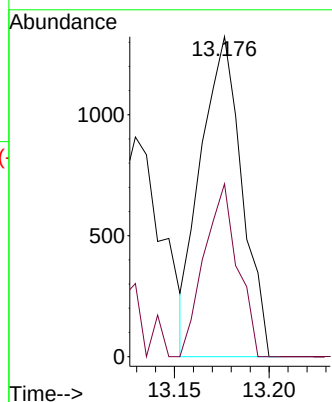
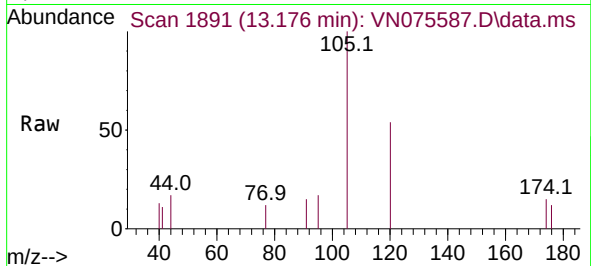




#80
 1,3,5-Trimethylbenzene
 Concen: 0.243 ug/l
 RT: 13.176 min Scan# 1891
 Delta R.T. 0.000 min
 Lab File: VN075587.D
 Acq: 06 Dec 2022 16:14

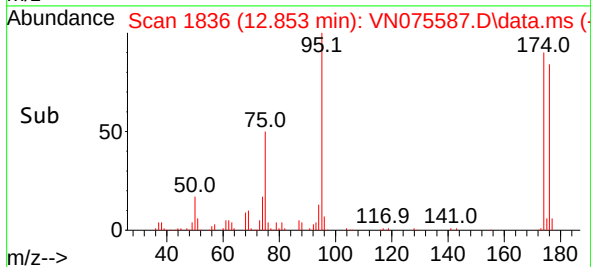
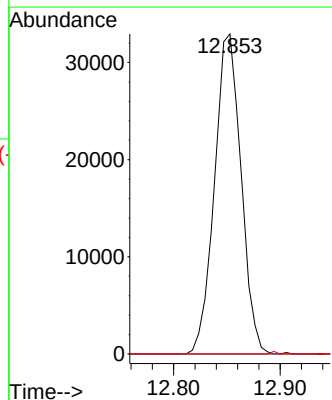
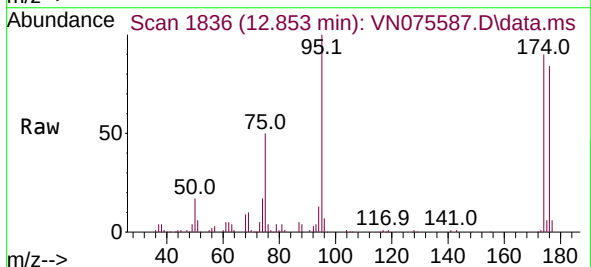
Instrument :
 MSVOA_N
 ClientSampleId :
 LIN-SIL-12-02DL

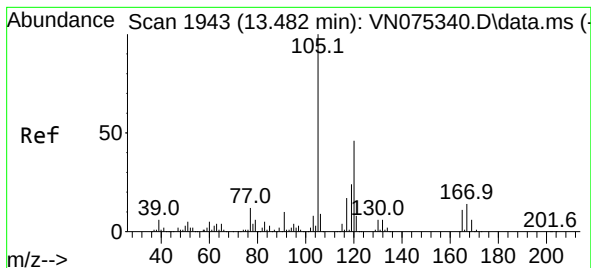
Tgt Ion:105 Resp: 2003
 Ion Ratio Lower Upper
 105 100
 120 43.9 24.7 74.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.610 ug/l
 RT: 12.853 min Scan# 1836
 Delta R.T. 0.118 min
 Lab File: VN075587.D
 Acq: 06 Dec 2022 16:14

Tgt Ion: 75 Resp: 56965
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 37.7 56.5#





#84

1,2,4-Trimethylbenzene

Concen: 0.526 ug/l

RT: 13.482 min Scan# 1943

Delta R.T. 0.000 min

Lab File: VN075587.D

Acq: 06 Dec 2022 16:14

Instrument :

MSVOA_N

ClientSampleId :

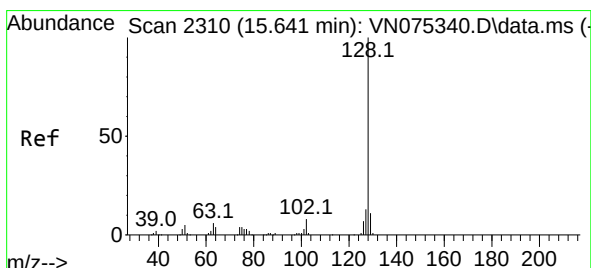
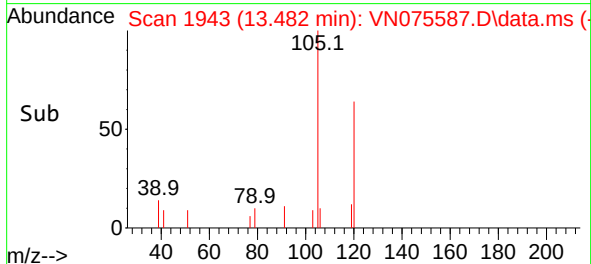
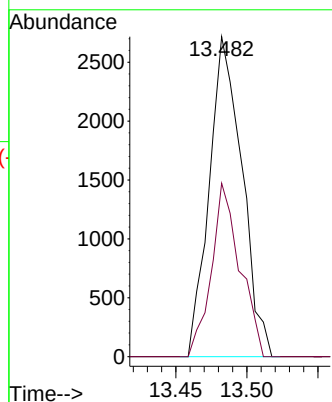
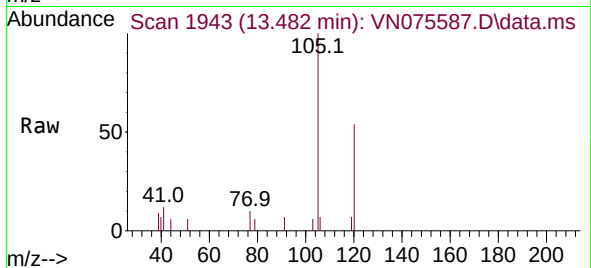
LIN-SIL-12-02DL

Tgt Ion:105 Resp: 4352

Ion Ratio Lower Upper

105 100

120 47.2 22.7 68.1



#95

Naphthalene

Concen: 0.267 ug/l

RT: 15.647 min Scan# 2311

Delta R.T. 0.006 min

Lab File: VN075587.D

Acq: 06 Dec 2022 16:14

Tgt Ion:128 Resp: 1947

Ion Ratio Lower Upper

128 100

127 8.7 10.4 15.6#

129 3.2 8.6 12.8#

