

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032824\
 Data File : VU058255.D
 Acq On : 28 Mar 2024 21:23
 Operator : MD/SY
 Sample : P1902-24
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 29 01:14:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR032124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 29 01:09:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	72865	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	77244	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	37347	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	19989	3.246	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	65.000%
7) Chloroethane-d5	1.908	69	20127	4.004	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.000%
11) 1,1-Dichloroethene-d2	2.560	65	8760	3.427	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.600%
20) 2-Butanone-d5	4.621	46	55681	50.900	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.800%
24) Chloroform-d	5.052	84	46544	4.228	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.600%
26) 1,2-Dichloroethane-d4	5.695	65	23234	4.514	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.200%
32) Benzene-d6	5.721	84	88327	3.521	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.400%
36) 1,2-Dichloropropane-d6	6.682	67	29138	3.941	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	78.800%
41) Toluene-d8	7.894	98	76152	3.426	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.600%#
43) trans-1,3-Dichloroprop...	8.177	79	8540	3.605	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.000%
46) 2-Hexanone-d5	8.644	63	30567	31.858	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	63.720%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	22620	4.696	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.000%
66) 1,2-Dichlorobenzene-d4	12.187	152	29627	4.260	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	746	0.195	ug/L	96
5) Vinyl chloride	1.599	62	970	0.232	ug/L #	61
12) 1,1-Dichloroethene	2.573	96	1915	0.524	ug/L #	1
13) Acetone	2.637	43	21901	30.934	ug/L	98
14) Carbon disulfide	2.785	76	1197	0.147	ug/L #	75
15) Methyl Acetate	3.043	43	1709	1.163	ug/L #	55
18) trans-1,2-Dichloroethene	3.351	96	1479	0.387	ug/L	95
21) 2-Butanone	4.727	43	4331	4.027	ug/L #	71
22) cis-1,2-Dichloroethene	4.657	96	86704	18.380	ug/L	97
25) Chloroform	5.078	83	9154	1.018	ug/L	94
30) Cyclohexane	5.383	56	1300	0.186	ug/L #	88
33) Benzene	5.769	78	35870	1.768	ug/L	100
34) Trichloroethene	6.534	95	473311	89.549	ug/L	98
35) Methylcyclohexane	6.766	83	993	0.135	ug/L #	66
37) 1,2-Dichloropropane	6.682	63	3152	0.556	ug/L #	90
38) Bromodichloromethane	7.100	83	943	0.145	ug/L #	97
42) Toluene	7.965	91	28507	1.330	ug/L	96
45) 1,1,2-Trichloroethane	8.573	97	335221	93.904	ug/L #	21
47) Tetrachloroethene	8.595	164	34199273	9660.143	ug/L	86

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QLast Update : Fri Mar 29 01:09:13 2024
Response via : Initial Calibration

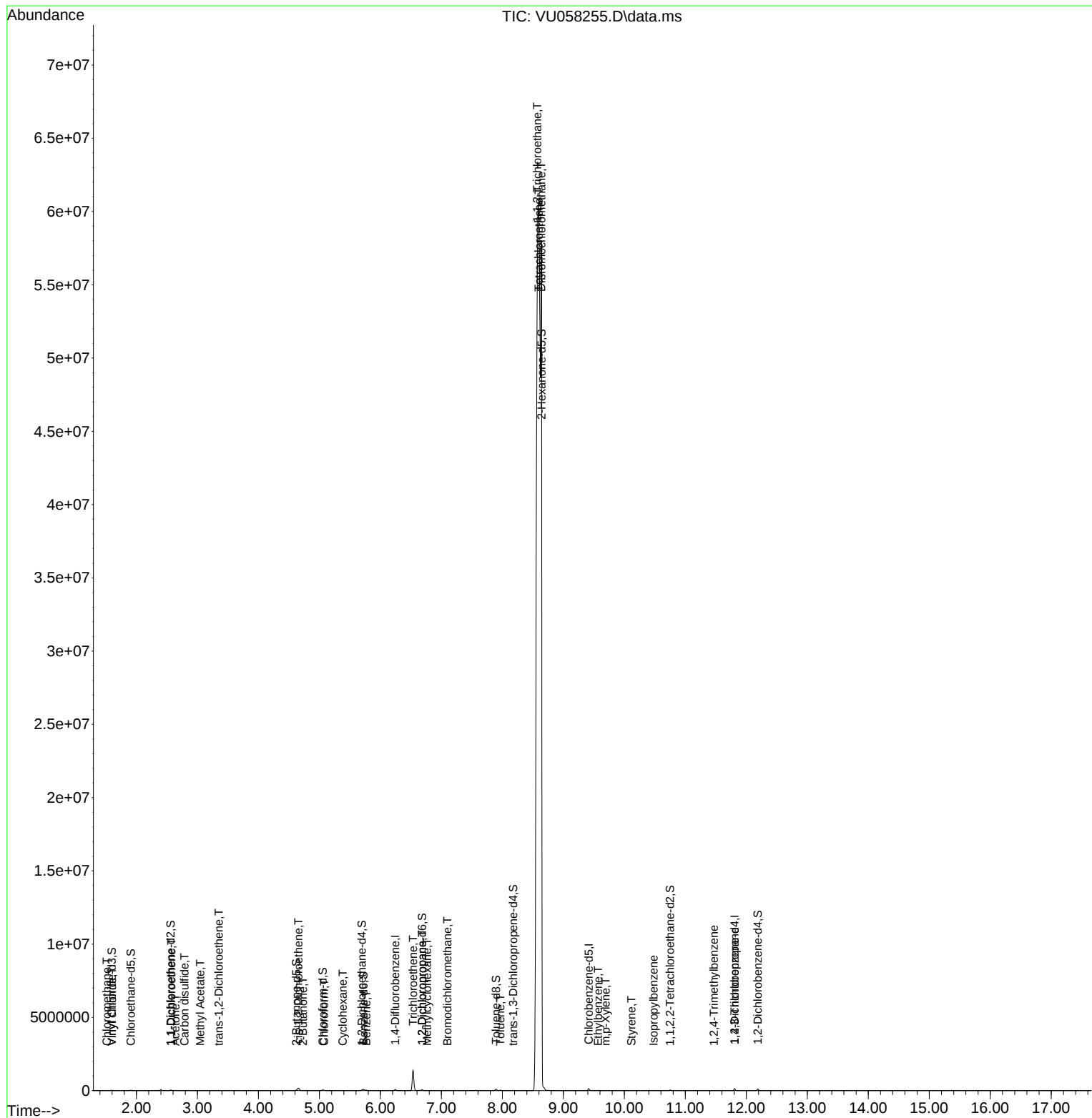
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.637	129	5970548	1528.522	ug/L #	10
52) Ethylbenzene	9.570	91	6108	0.255	ug/L	98
53) m,p-Xylene	9.692	106	1197	0.140	ug/L	91
55) Styrene	10.116	104	2697	0.198	ug/L	98
60) Isopropylbenzene	10.480	105	4373	0.195	ug/L	96
61) 1,2,3-Trichloropropane	11.807	75	4781	1.529	ug/L #	69
63) 1,2,4-Trimethylbenzene	11.467	105	2143	0.115	ug/L	95

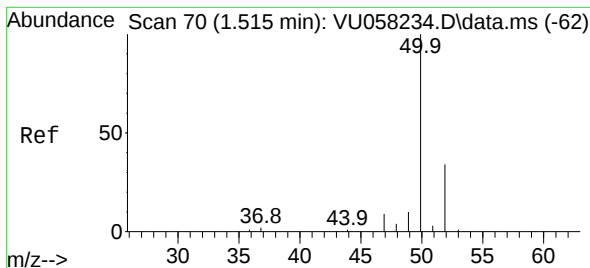
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.195 ug/L

RT: 1.515 min Scan# 70

Delta R.T. 0.000 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Instrument :

MSVOA_U

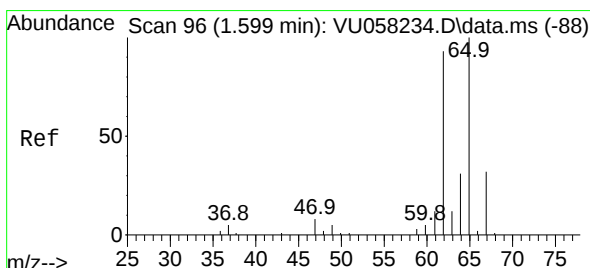
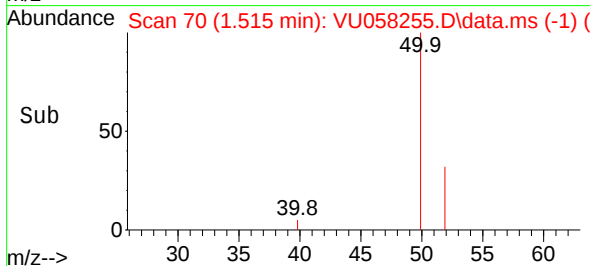
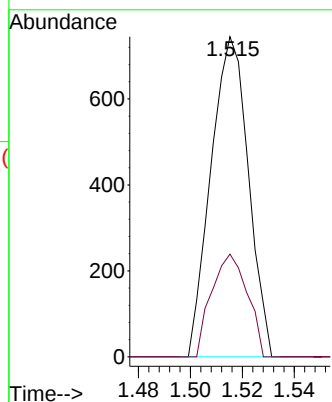
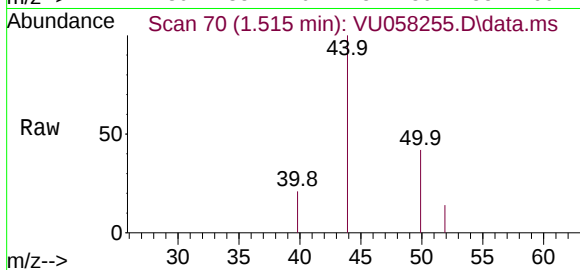
ClientSampleId :

Tgt Ion: 50 Resp: 746

Ion Ratio Lower Upper

50 100

52 32.1 24.2 45.0



#5

Vinyl chloride

Concen: 0.232 ug/L

RT: 1.599 min Scan# 96

Delta R.T. 0.000 min

Lab File: VU058255.D

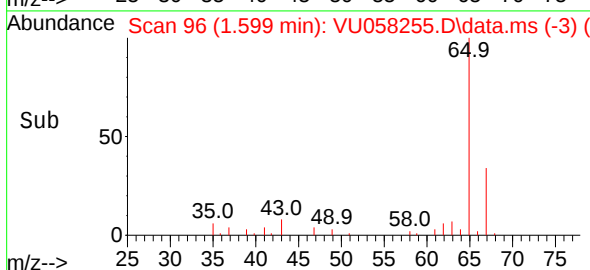
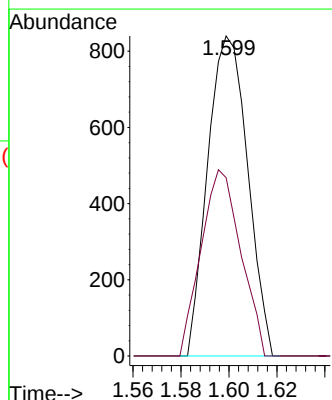
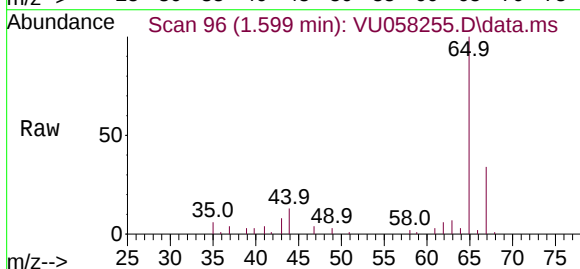
Acq: 28 Mar 2024 21:23

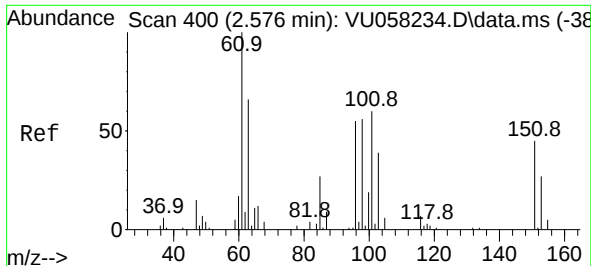
Tgt Ion: 62 Resp: 970

Ion Ratio Lower Upper

62 100

64 55.7 23.4 43.6#





#12

1,1-Dichloroethene

Concen: 0.524 ug/L

RT: 2.573 min Scan# 30

Delta R.T. -0.003 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Instrument :

MSVOA_U

ClientSampleId :

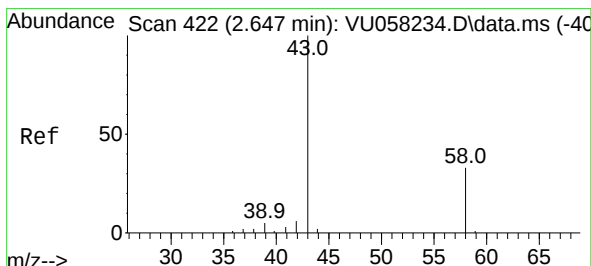
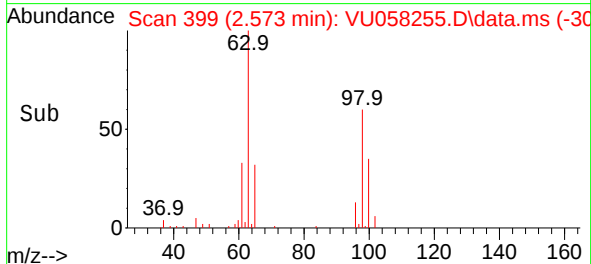
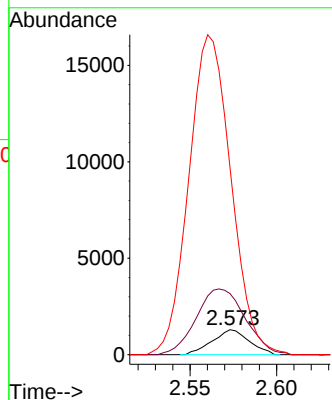
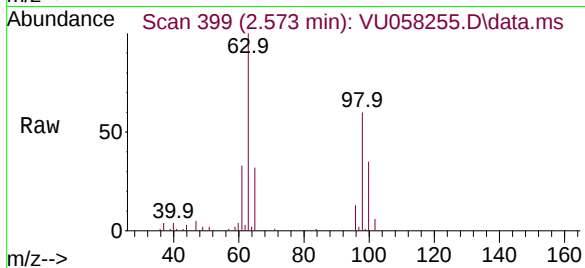
Tgt Ion: 96 Resp: 1915

Ion Ratio Lower Upper

96 100

61 245.0 128.1 237.9#

63 751.3 116.8 217.0#



#13

Acetone

Concen: 30.934 ug/L

RT: 2.637 min Scan# 419

Delta R.T. -0.010 min

Lab File: VU058255.D

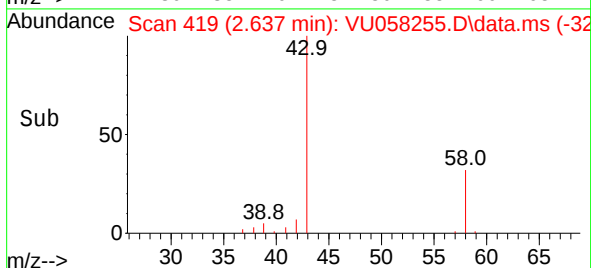
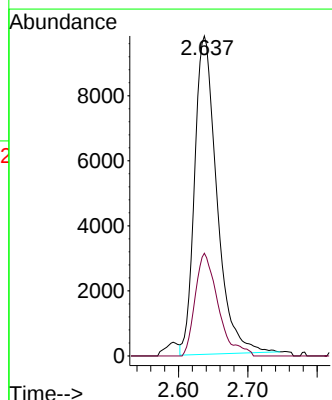
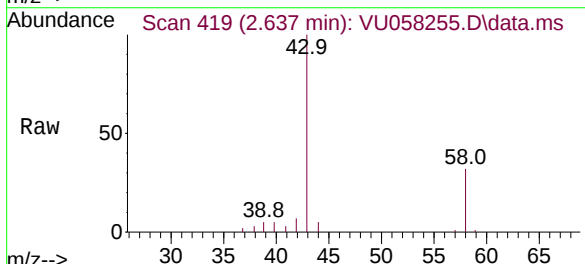
Acq: 28 Mar 2024 21:23

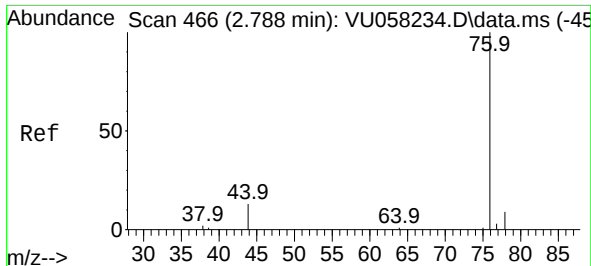
Tgt Ion: 43 Resp: 21901

Ion Ratio Lower Upper

43 100

58 33.2 0.0 64.6





#14

Carbon disulfide

Concen: 0.147 ug/L

RT: 2.785 min Scan# 4

Delta R.T. -0.003 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Instrument :

MSVOA_U

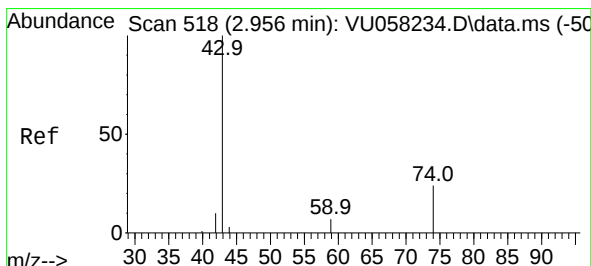
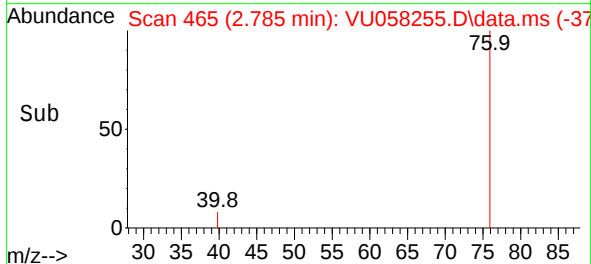
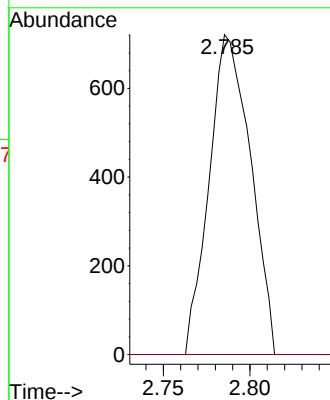
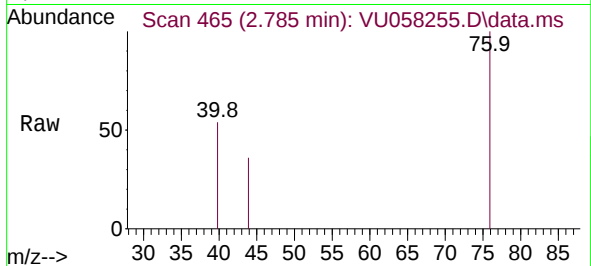
ClientSampleId :

Tgt Ion: 76 Resp: 1197

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#15

Methyl Acetate

Concen: 1.163 ug/L

RT: 3.043 min Scan# 545

Delta R.T. 0.087 min

Lab File: VU058255.D

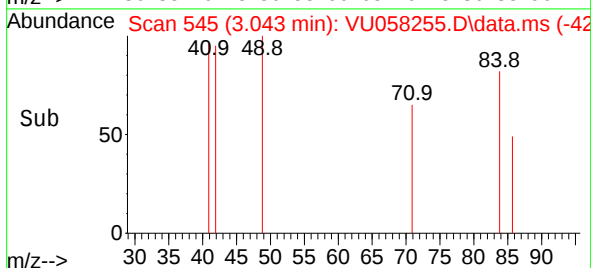
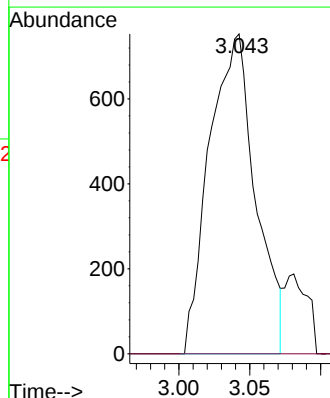
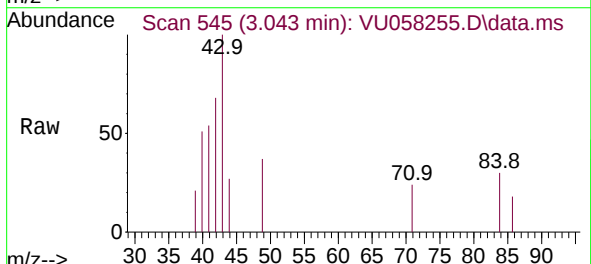
Acq: 28 Mar 2024 21:23

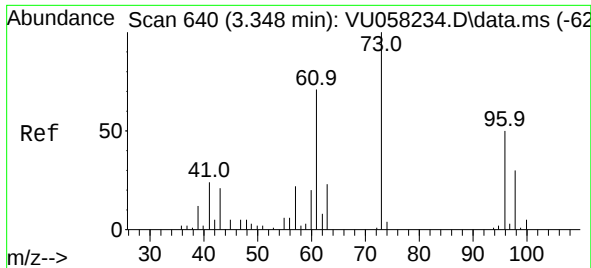
Tgt Ion: 43 Resp: 1709

Ion Ratio Lower Upper

43 100

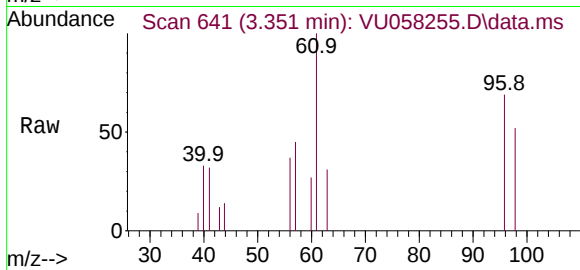
74 0.0 16.8 25.2#



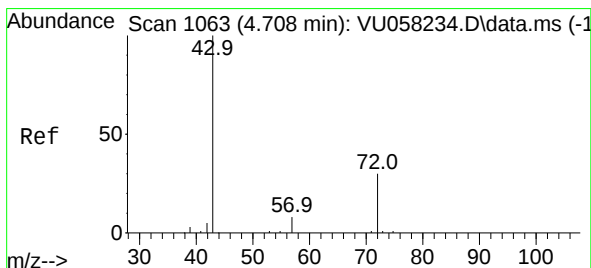
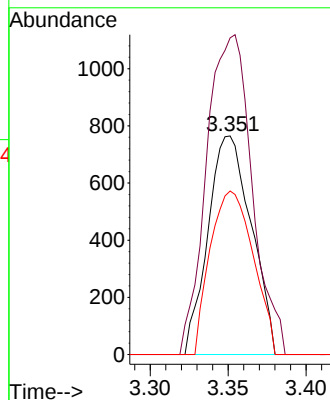
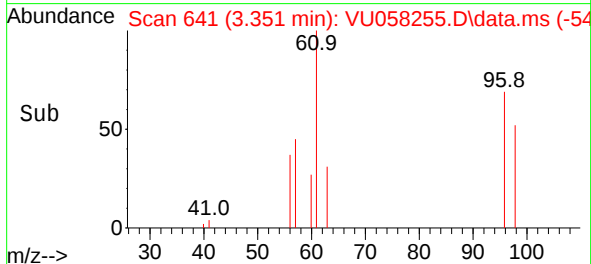


#18
trans-1,2-Dichloroethene
Concen: 0.387 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU058255.D
Acq: 28 Mar 2024 21:23

Instrument :
MSVOA_U
ClientSampleId :

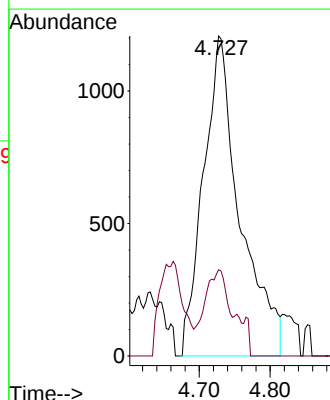
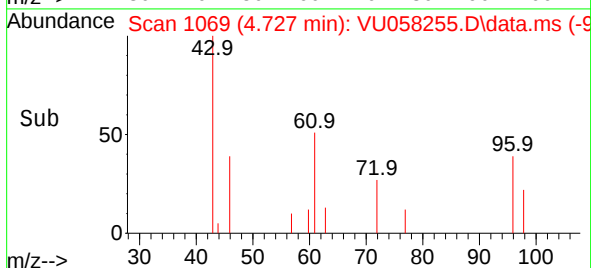
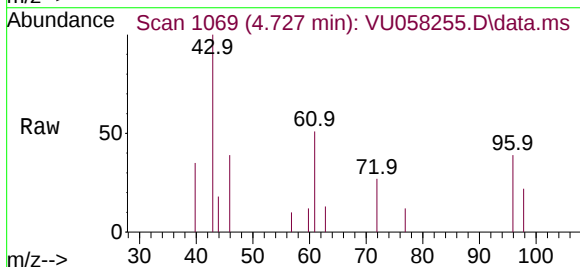


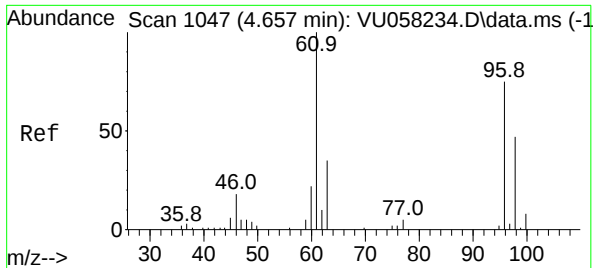
Tgt Ion: 96 Resp: 1479
Ion Ratio Lower Upper
96 100
61 144.8 102.5 190.3
98 74.8 44.0 81.8



#21
2-Butanone
Concen: 4.027 ug/L
RT: 4.727 min Scan# 1069
Delta R.T. 0.019 min
Lab File: VU058255.D
Acq: 28 Mar 2024 21:23

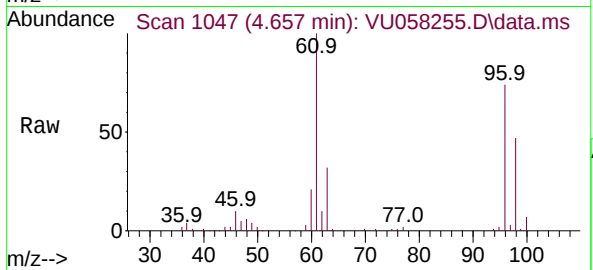
Tgt Ion: 43 Resp: 4331
Ion Ratio Lower Upper
43 100
72 12.6 14.0 41.9#



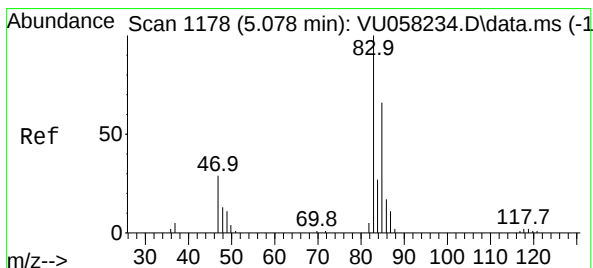
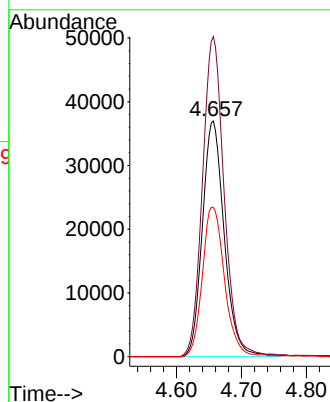
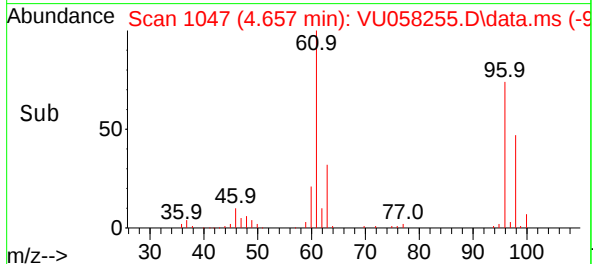


#22
cis-1,2-Dichloroethene
Concen: 18.380 ug/L
RT: 4.657 min Scan# 1047
Delta R.T. 0.000 min
Lab File: VU058255.D
Acq: 28 Mar 2024 21:23

Instrument :
MSVOA_U
ClientSampleId :

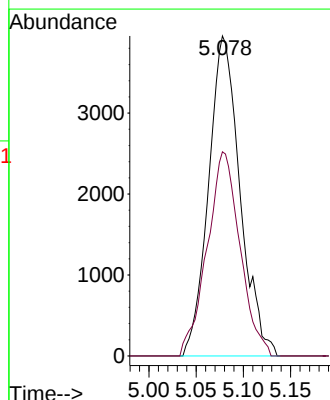
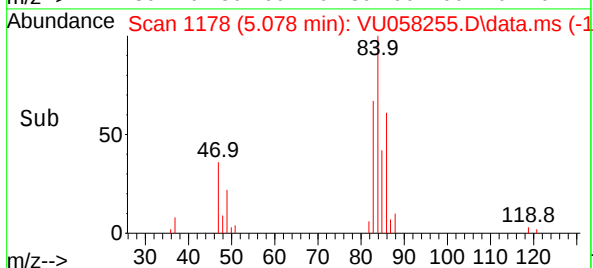
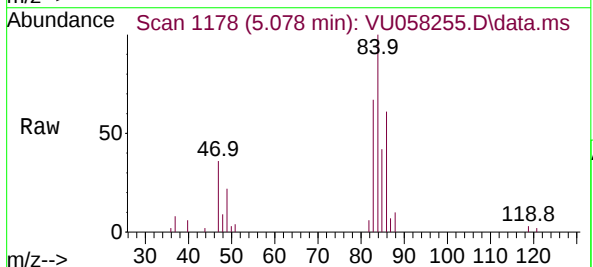


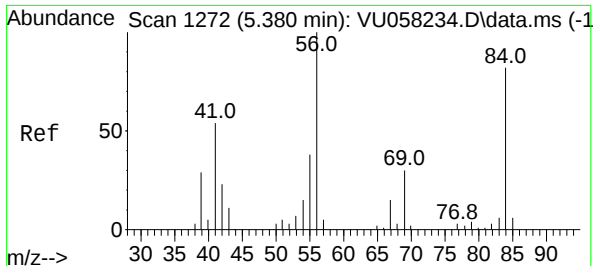
Tgt Ion:	96	Resp:	86704
Ion	Ratio	Lower	Upper
96	100		
61	135.8	92.8	172.4
98	63.3	43.2	80.2



#25
Chloroform
Concen: 1.018 ug/L
RT: 5.078 min Scan# 1178
Delta R.T. 0.000 min
Lab File: VU058255.D
Acq: 28 Mar 2024 21:23

Tgt Ion:	83	Resp:	9154
Ion	Ratio	Lower	Upper
83	100		
85	63.8	47.9	88.9





#30

Cyclohexane

Concen: 0.186 ug/L

RT: 5.383 min Scan# 1272

Delta R.T. 0.003 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Instrument :

MSVOA_U

ClientSampleId :

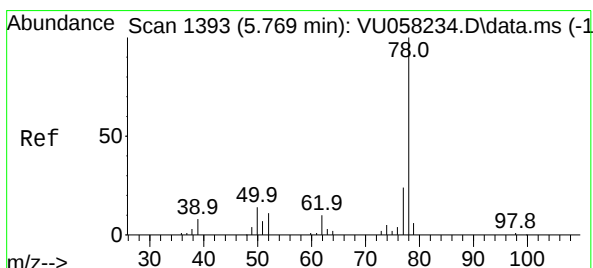
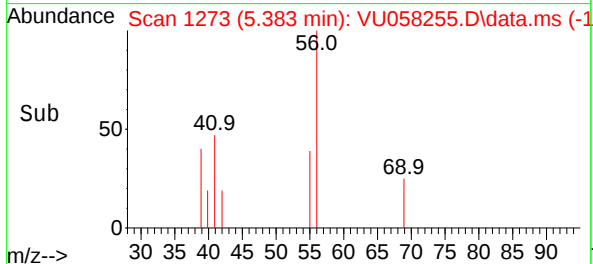
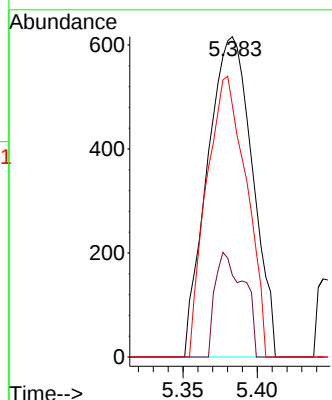
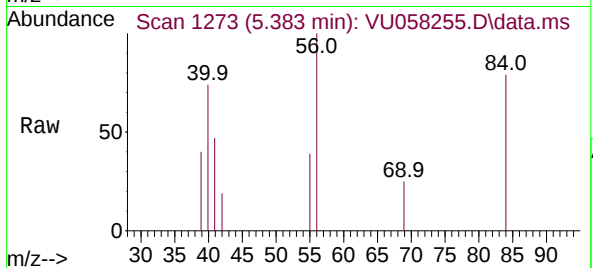
Tgt Ion: 56 Resp: 1300

Ion Ratio Lower Upper

56 100

69 20.7 24.2 36.2#

84 77.2 69.7 104.5



#33

Benzene

Concen: 1.768 ug/L

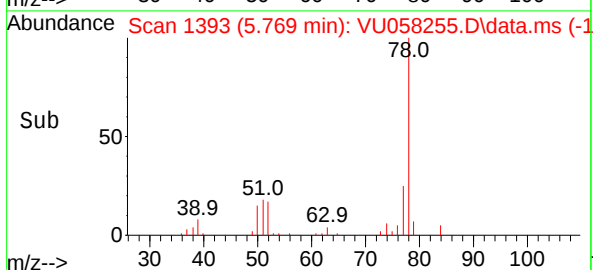
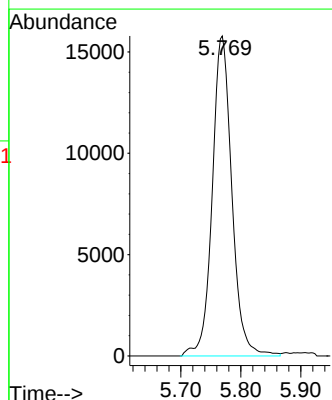
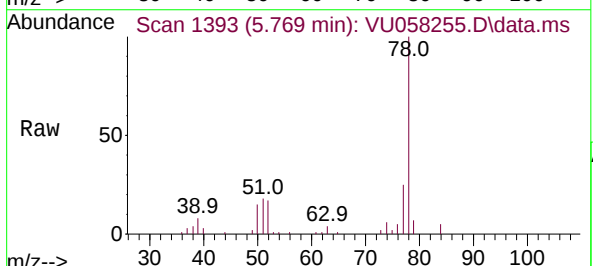
RT: 5.769 min Scan# 1393

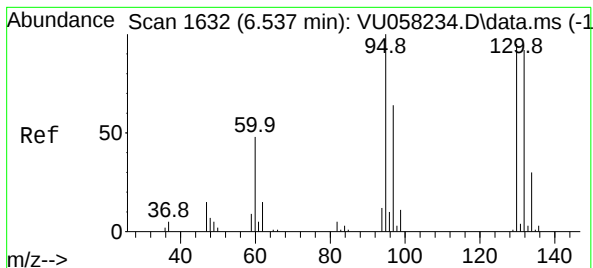
Delta R.T. 0.000 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Tgt Ion: 78 Resp: 35870





#34

Trichloroethene

Concen: 89.549 ug/L

RT: 6.534 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 473311

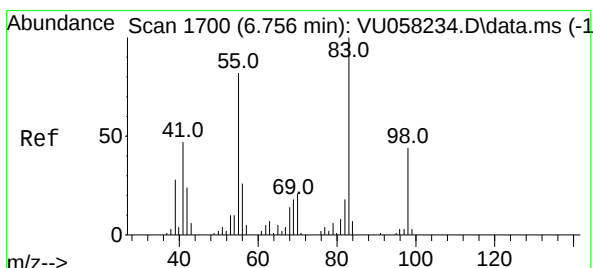
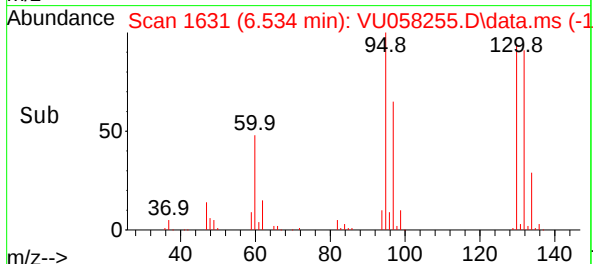
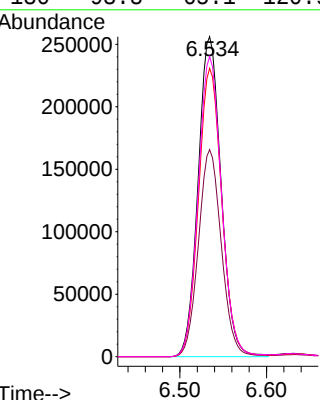
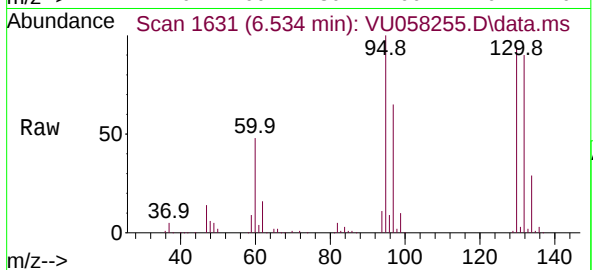
Ion Ratio Lower Upper

95 100

97 64.7 47.7 88.7

132 90.1 63.6 118.2

130 93.8 65.1 120.9



#35

Methylcyclohexane

Concen: 0.135 ug/L

RT: 6.766 min Scan# 1703

Delta R.T. 0.010 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

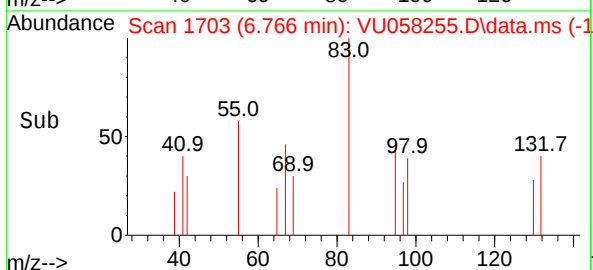
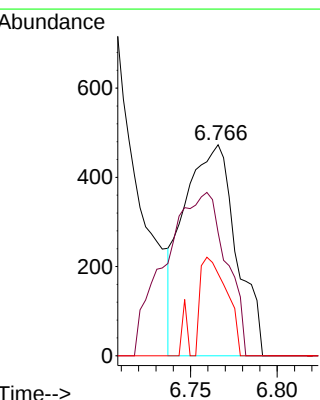
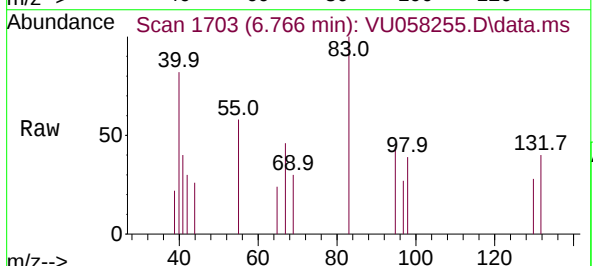
Tgt Ion: 83 Resp: 993

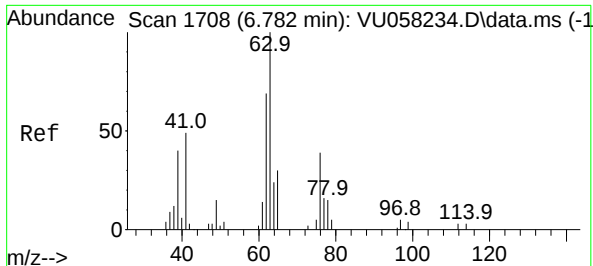
Ion Ratio Lower Upper

83 100

55 89.9 62.7 94.1

98 0.0 37.3 55.9#

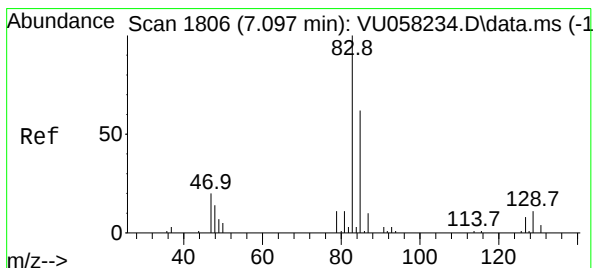
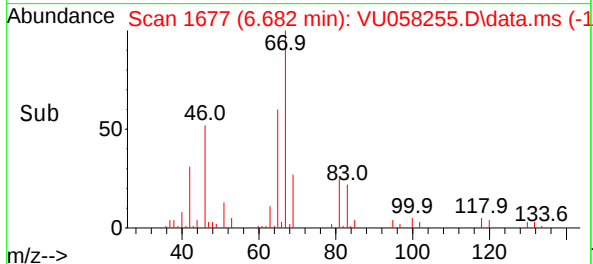
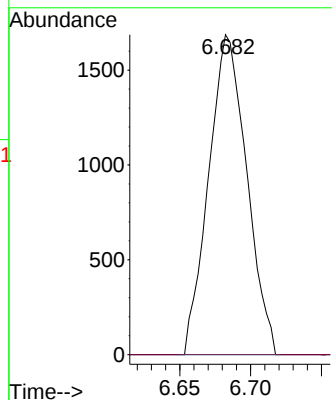
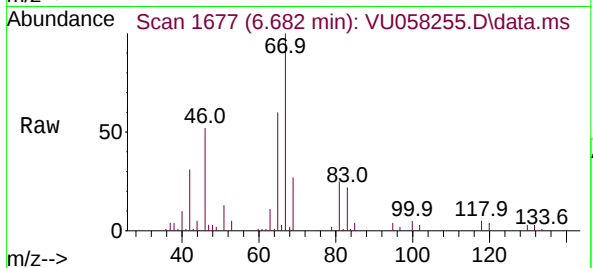




#37
1,2-Dichloropropane
Concen: 0.556 ug/L
RT: 6.682 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU058255.D
Acq: 28 Mar 2024 21:23

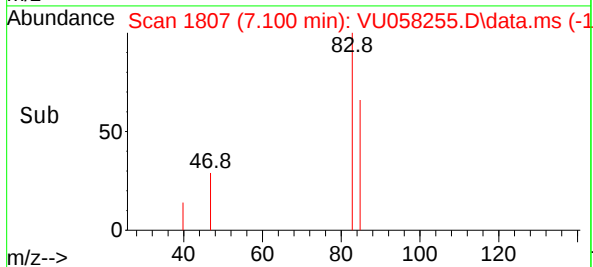
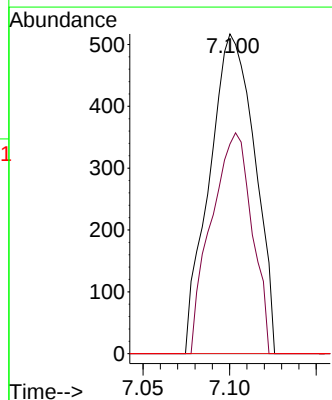
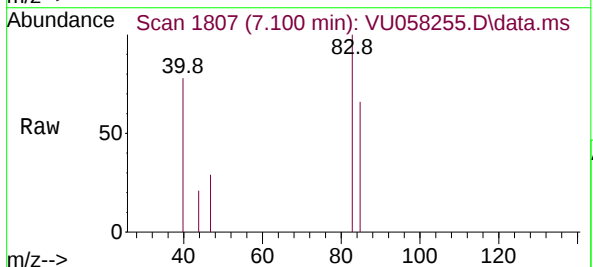
Instrument :
MSVOA_U
ClientSampleId :

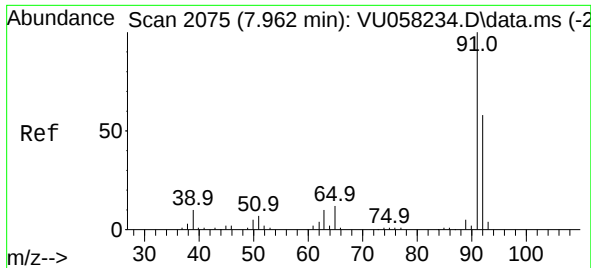
Tgt Ion: 63 Resp: 3152
Ion Ratio Lower Upper
63 100
112 0.0 2.7 4.1#



#38
Bromodichloromethane
Concen: 0.145 ug/L
RT: 7.100 min Scan# 1807
Delta R.T. 0.003 min
Lab File: VU058255.D
Acq: 28 Mar 2024 21:23

Tgt Ion: 83 Resp: 943
Ion Ratio Lower Upper
83 100
85 65.6 45.6 84.8
127 0.0 7.1 10.7#





#42

Toluene

Concen: 1.330 ug/L

RT: 7.965 min Scan# 2075

Delta R.T. 0.003 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Instrument :

MSVOA_U

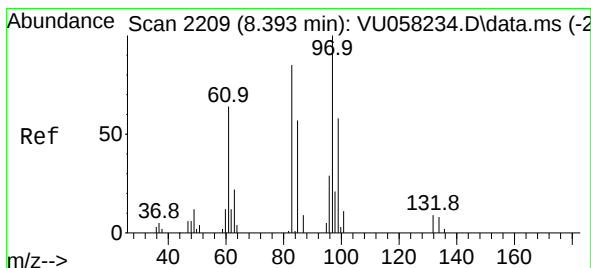
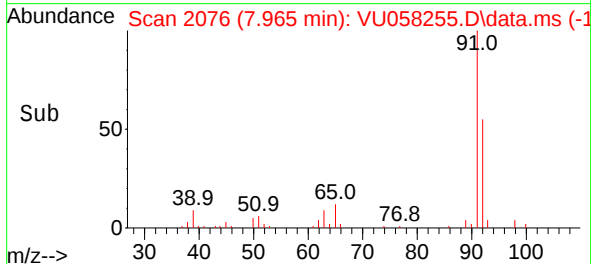
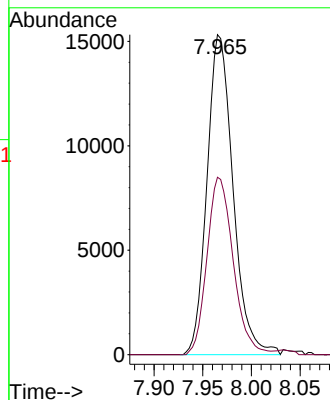
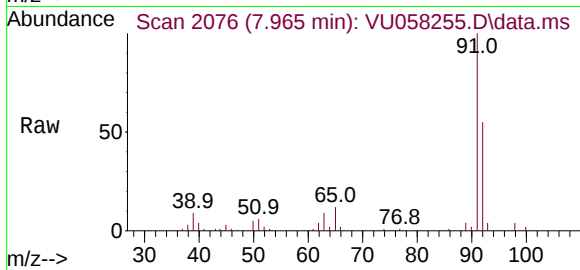
ClientSampleId :

Tgt Ion: 91 Resp: 28507

Ion Ratio Lower Upper

91 100

92 55.5 40.7 75.5



#45

1,1,2-Trichloroethane

Concen: 93.904 ug/L

RT: 8.573 min Scan# 2265

Delta R.T. 0.180 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Tgt Ion: 97 Resp: 335221

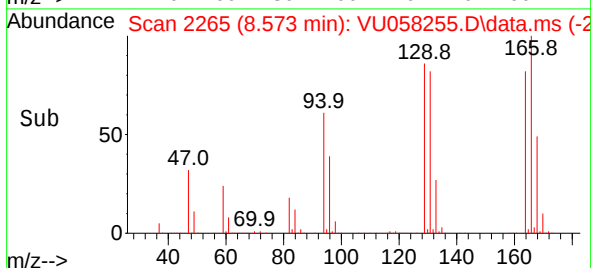
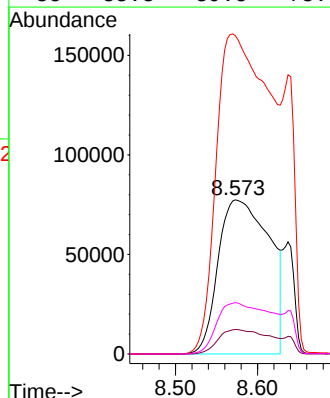
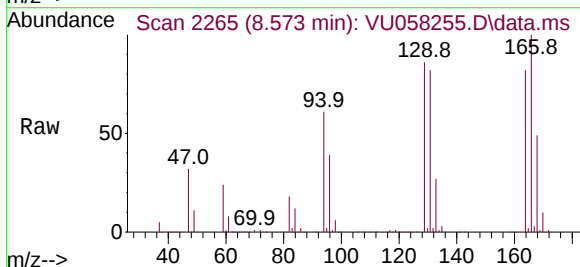
Ion Ratio Lower Upper

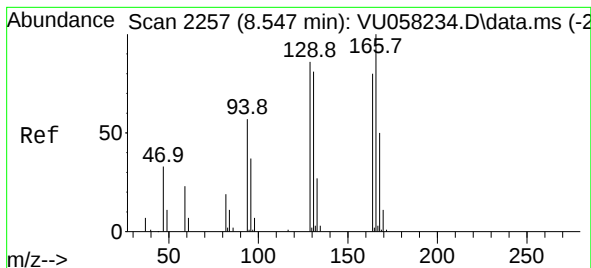
97 100

99 15.9 44.5 82.7#

83 206.5 64.1 119.1#

85 33.3 39.5 73.4#





#47

Tetrachloroethene

Concen: 9660.143 ug/L

RT: 8.595 min Scan# 21

Delta R.T. 0.048 min

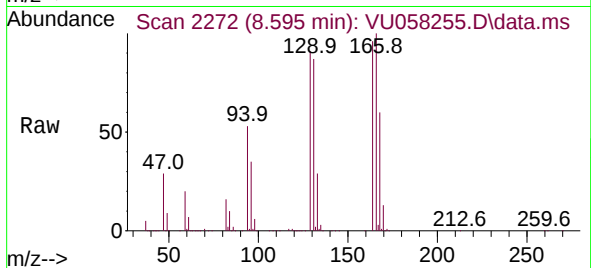
Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp:34199273

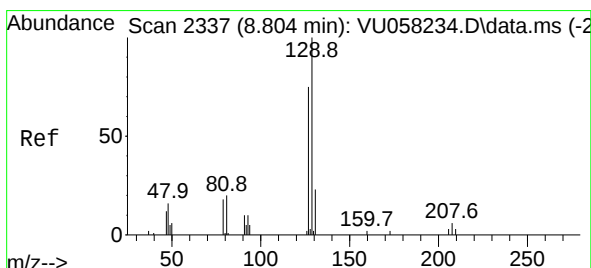
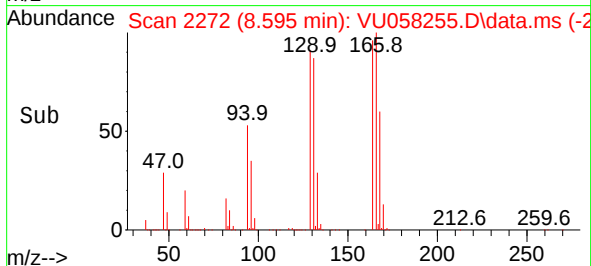
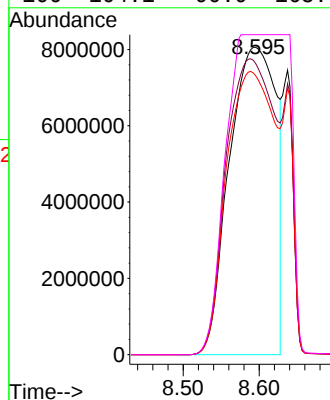
Ion Ratio Lower Upper

164 100

129 94.7 71.3 132.3

131 90.7 70.8 131.4

166 104.1 90.9 168.9



#49

Dibromochloromethane

Concen: 1528.522 ug/L

RT: 8.637 min Scan# 2285

Delta R.T. -0.167 min

Lab File: VU058255.D

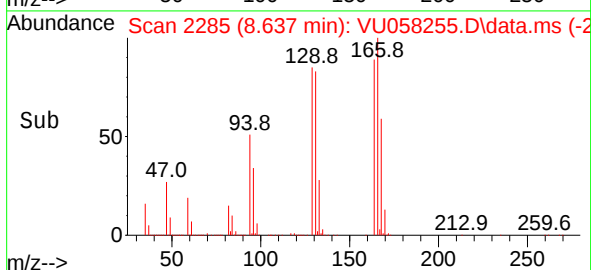
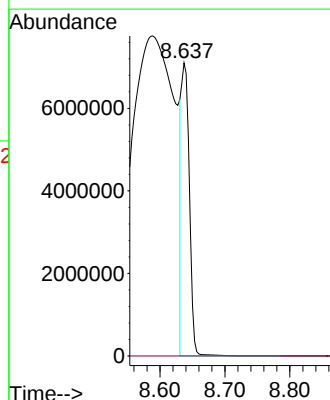
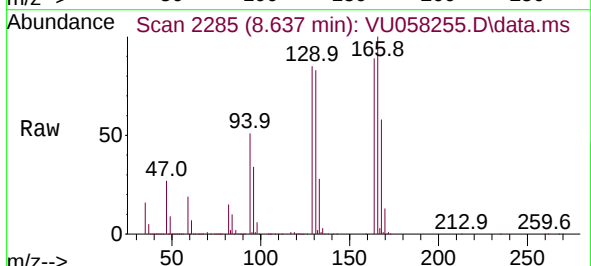
Acq: 28 Mar 2024 21:23

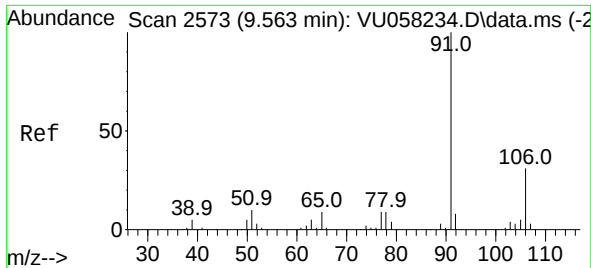
Tgt Ion:129 Resp: 5970548

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#

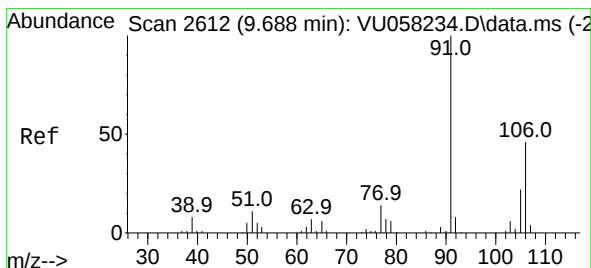
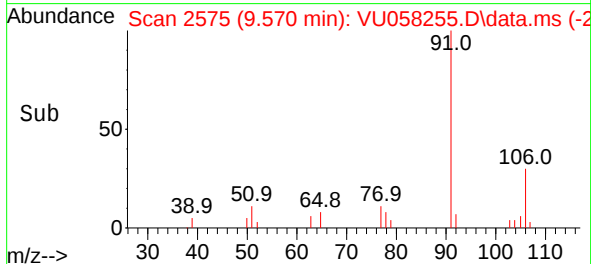
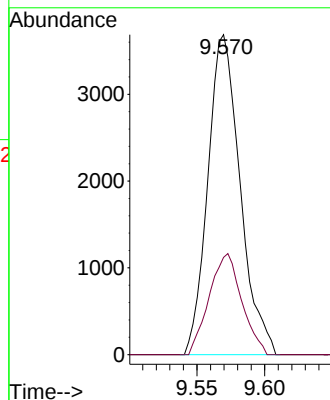
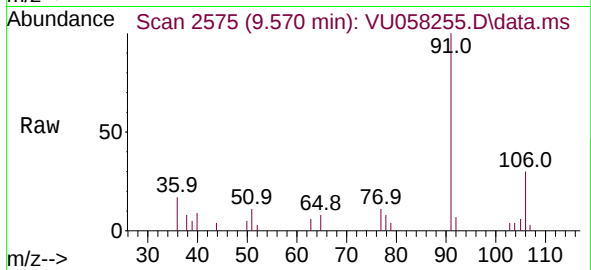




#52
Ethylbenzene
Concen: 0.255 ug/L
RT: 9.570 min Scan# 2575
Delta R.T. 0.007 min
Lab File: VU058255.D
Acq: 28 Mar 2024 21:23

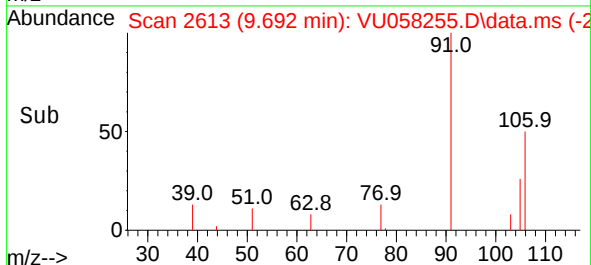
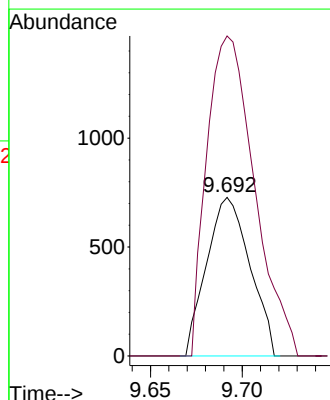
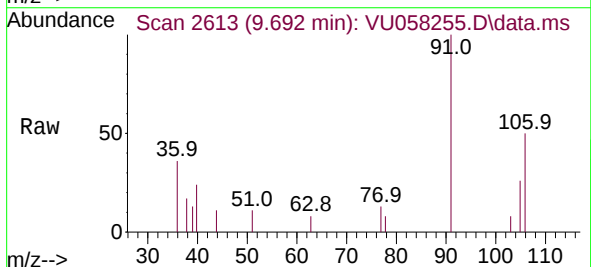
Instrument :
MSVOA_U
ClientSampleId :

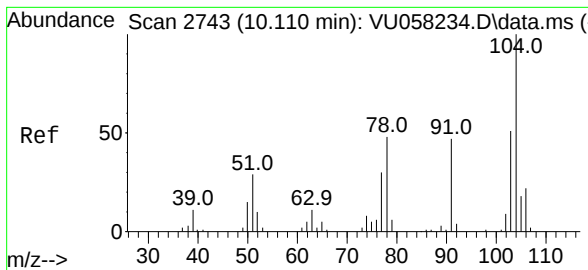
Tgt Ion: 91 Resp: 6108
Ion Ratio Lower Upper
91 100
106 30.4 20.6 38.2



#53
m,p-Xylene
Concen: 0.140 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.003 min
Lab File: VU058255.D
Acq: 28 Mar 2024 21:23

Tgt Ion:106 Resp: 1197
Ion Ratio Lower Upper
106 100
91 201.8 151.0 280.4





#55

Styrene

Concen: 0.198 ug/L

RT: 10.116 min Scan# 21

Delta R.T. 0.007 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Instrument :

MSVOA_U

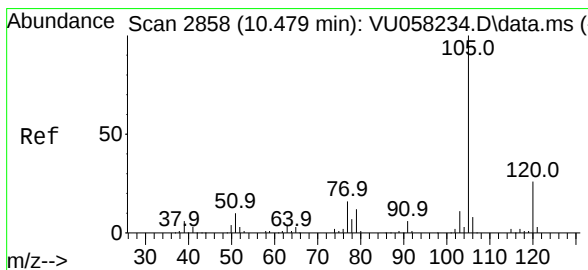
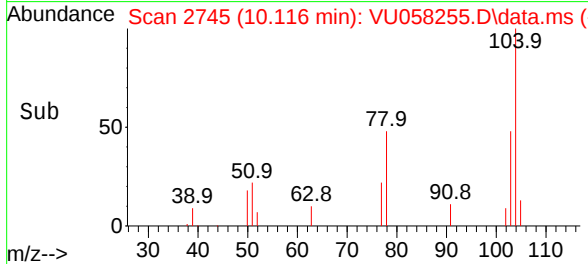
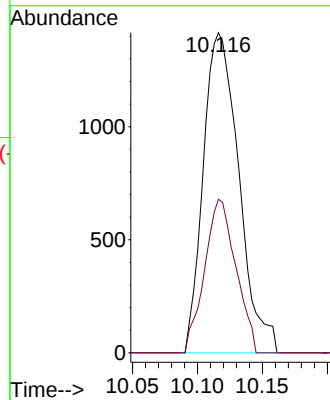
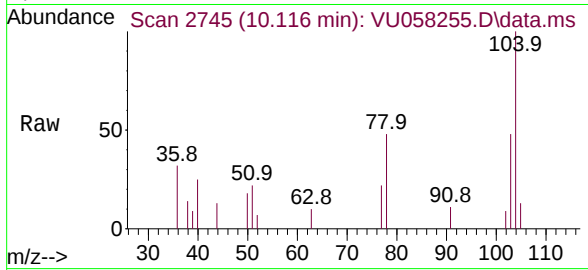
ClientSampleId :

Tgt Ion:104 Resp: 2697

Ion Ratio Lower Upper

104 100

78 48.0 34.5 64.1



#60

Isopropylbenzene

Concen: 0.195 ug/L

RT: 10.480 min Scan# 2858

Delta R.T. 0.000 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

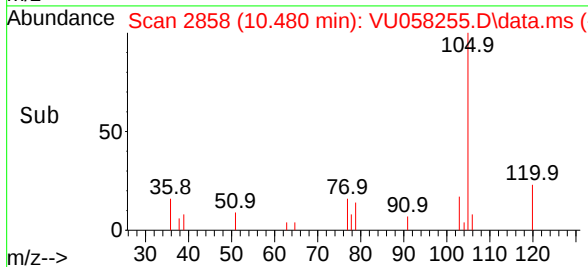
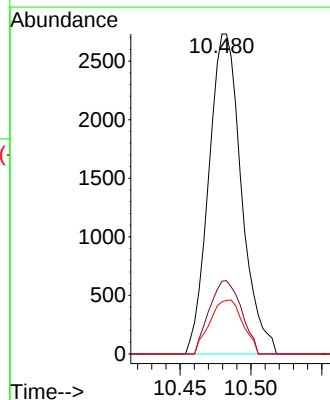
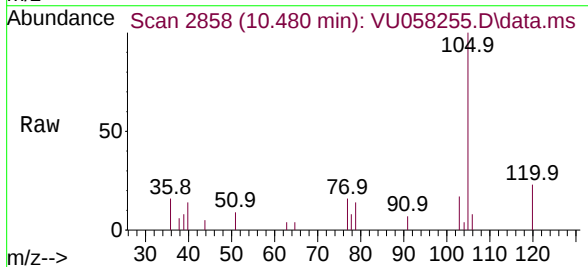
Tgt Ion:105 Resp: 4373

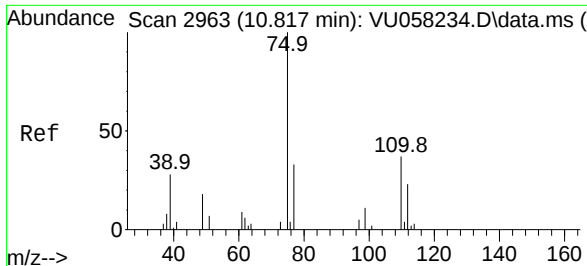
Ion Ratio Lower Upper

105 100

120 22.5 20.5 30.7

77 17.0 13.2 19.8





#61

1,2,3-Trichloropropane

Concen: 1.529 ug/L

RT: 11.807 min Scan# 3165

Delta R.T. 0.990 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Instrument :

MSVOA_U

ClientSampleId :

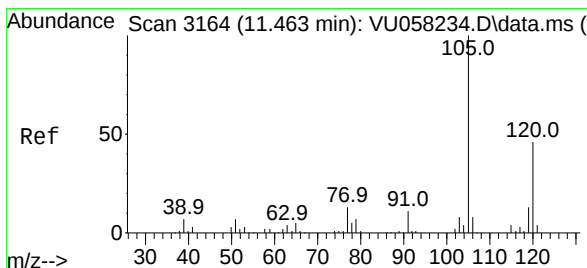
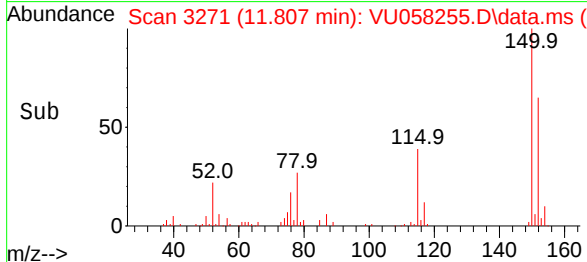
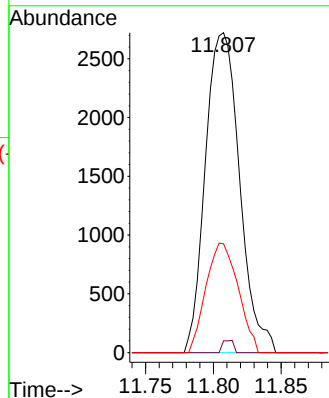
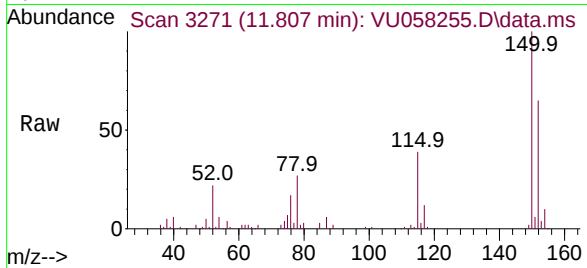
Tgt Ion: 75 Resp: 4781

Ion Ratio Lower Upper

75 100

110 1.2 28.1 42.1#

77 32.1 25.1 37.7



#63

1,2,4-Trimethylbenzene

Concen: 0.115 ug/L

RT: 11.467 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VU058255.D

Acq: 28 Mar 2024 21:23

Tgt Ion:105 Resp: 2143

Ion Ratio Lower Upper

105 100

120 48.4 35.9 53.9

