

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
 Data File : VL041629.D
 Acq On : 25 Sep 2024 18:38
 Operator : SY/MD
 Sample : P4199-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 26 01:23:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

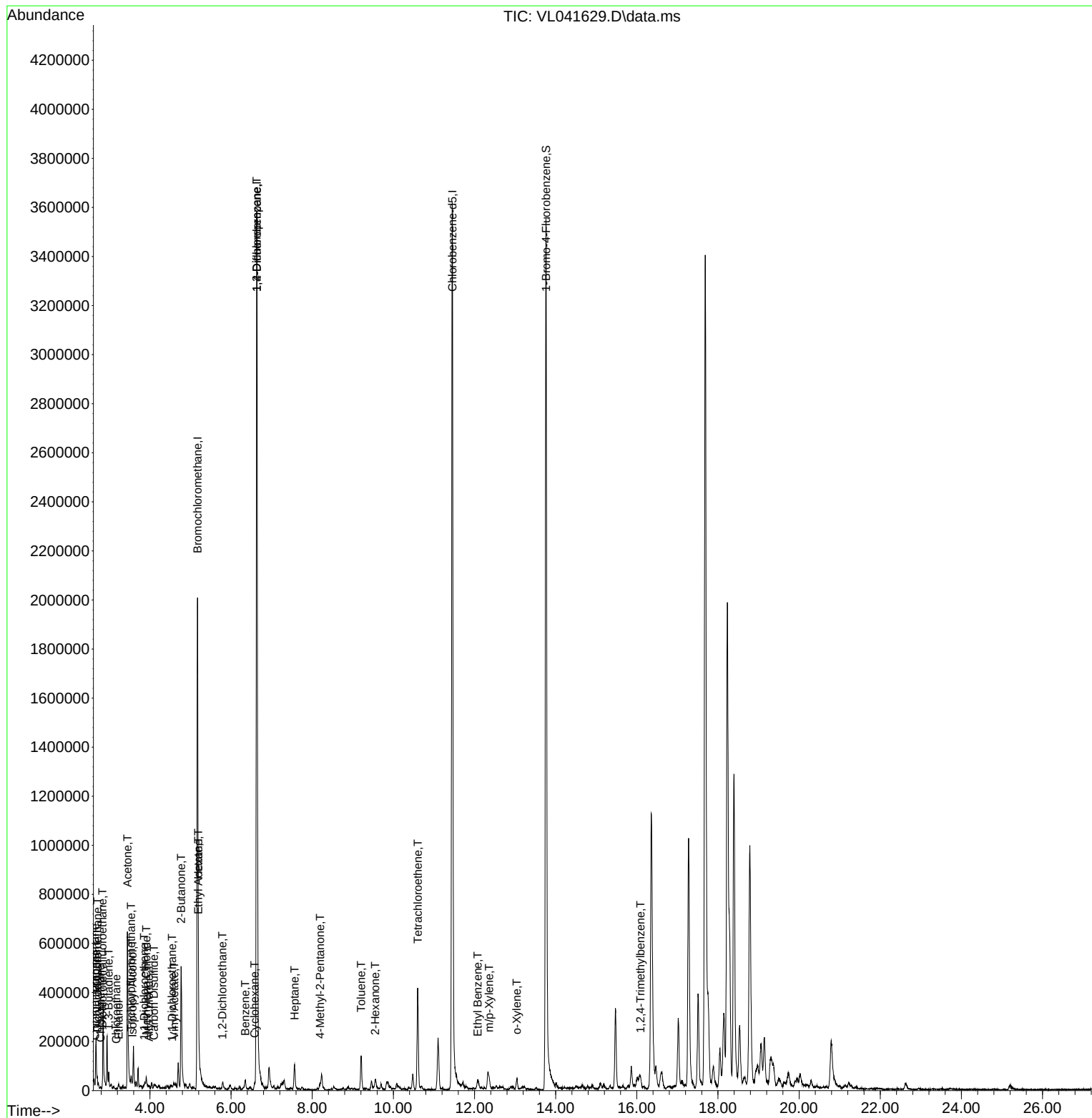
Internal Standards						
1) Bromochloromethane	5.172	49	1026887	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2720772	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2399818	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1764362	9.987	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.703	85	21563	0.145	ppbv #	86
3) Chlorodifluoromethane	2.648	51	7137	0.057	ppbv	96
4) Chloromethane	2.787	50	7405	0.108	ppbv #	74
7) Chloroethane	3.173	64	1205	0.052	ppbv #	43
8) Dichlorotetrafluoroethane	2.832	85	8272	0.053	ppbv	95
9) Propene	2.671	41	74515	1.418	ppbv	99
10) Heptane	7.565	43	37781	0.307	ppbv	96
11) Trichlorofluoromethane	3.536	101	21334	0.135	ppbv	99
13) Ethanol	3.230	45	12209	3.091	ppbv	70
15) Acetone	3.446	43	669683	5.195	ppbv #	89
16) 1,3-Butadiene	2.980	39	5123	0.082	ppbv #	10
18) 1,1-Dichloroethene	3.861	96	1690	0.035	ppbv #	34
19) Isopropyl Alcohol	3.571	45	6310	0.096	ppbv #	92
20) Methylene Chloride	3.915	84	5525	0.114	ppbv	85
21) Allyl Chloride	3.973	41	3178	0.043	ppbv #	52
23) Vinyl Acetate	4.597	43	15319	0.216	ppbv #	90
24) 1,1-Dichloroethane	4.542	63	4776	0.045	ppbv #	82
25) Ethyl Acetate	5.195	43	30510	0.132	ppbv #	87
26) Hexane	5.192	57	35650	0.369	ppbv #	40
27) Carbon Disulfide	4.102	76	9179	0.089	ppbv #	7
30) Cyclohexane	6.581	84	4659	0.063	ppbv #	8
34) 2-Butanone	4.771	43	638390	4.921	ppbv	98
36) Benzene	6.349	78	27909	0.148	ppbv	95
37) 1,2-Dichloroethane	5.783	62	3864	0.035	ppbv #	86
39) 1,2-Dichloropropane	6.632	63	681292	8.863	ppbv #	24
50) 4-Methyl-2-Pentanone	8.195	43	12832	0.064	ppbv	94
51) 2-Hexanone	9.555	43	41117	0.271	ppbv #	100
52) Tetrachloroethene	10.600	164	102556	1.499	ppbv	95
53) Toluene	9.208	91	104319	0.520	ppbv	98
58) Ethyl Benzene	12.076	91	14919	0.058	ppbv	90
59) m/p-Xylene	12.359	91	23157	0.101	ppbv #	30
60) o-Xylene	13.044	91	12685	0.058	ppbv #	30
74) 1,2,4-Trimethylbenzene	16.092	105	9666	0.036	ppbv #	50

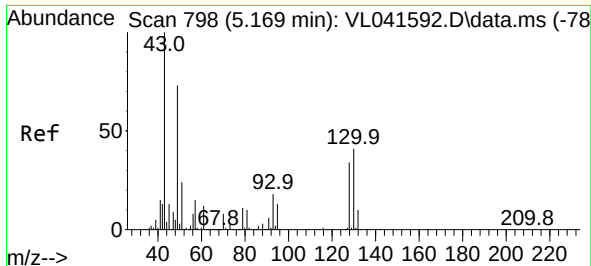
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 26 01:23:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.172 min Scan# 798

Delta R.T. 0.003 min

Lab File: VL041629.D

Acq: 25 Sep 2024 18:38

Instrument :

MSVOA_L

ClientSampleId :

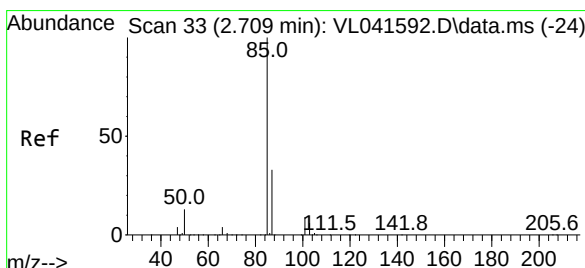
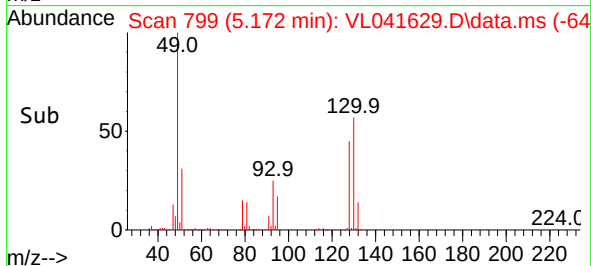
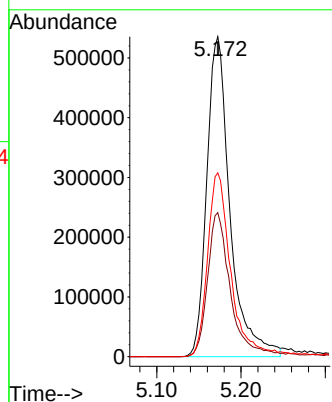
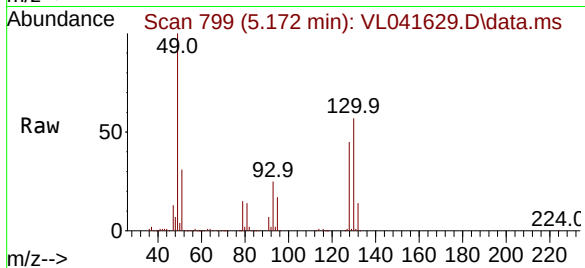
Tgt Ion: 49 Resp: 1026887

Ion Ratio Lower Upper

49 100

128 46.1 23.8 71.5

130 59.4 30.4 91.3



#2

Dichlorodifluoromethane

Concen: 0.145 ppbv

RT: 2.703 min Scan# 31

Delta R.T. -0.006 min

Lab File: VL041629.D

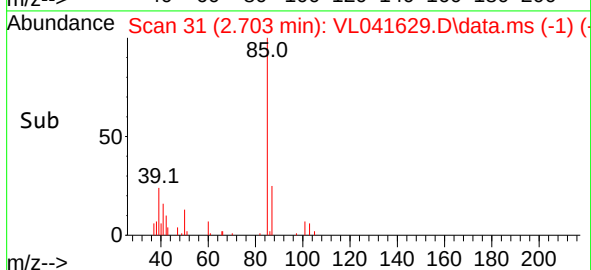
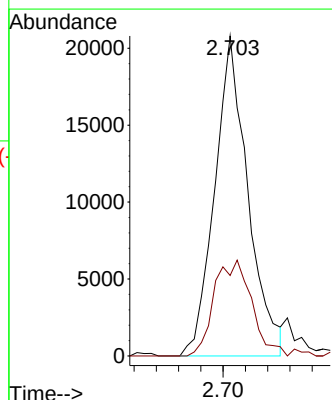
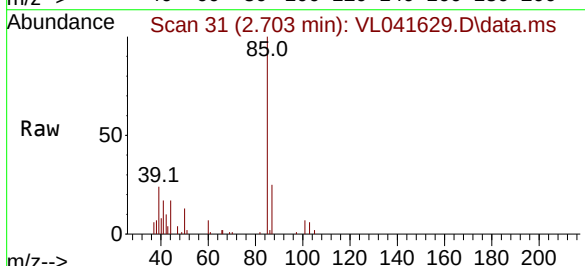
Acq: 25 Sep 2024 18:38

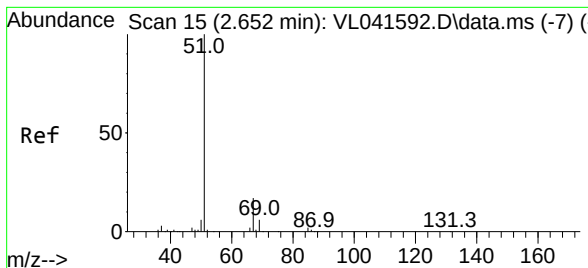
Tgt Ion: 85 Resp: 21563

Ion Ratio Lower Upper

85 100

87 25.1 26.3 39.5#





#3

Chlorodifluoromethane

Concen: 0.057 ppbv

RT: 2.648 min Scan# 14

Delta R.T. -0.003 min

Lab File: VL041629.D

Acq: 25 Sep 2024 18:38

Instrument :

MSVOA_L

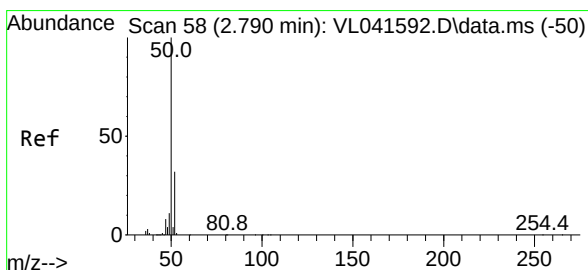
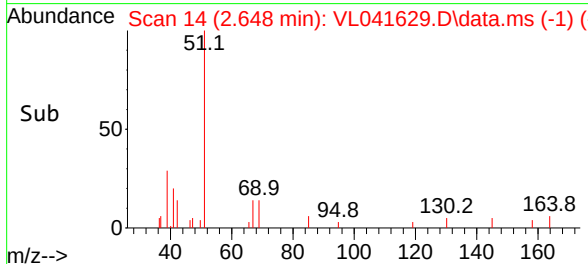
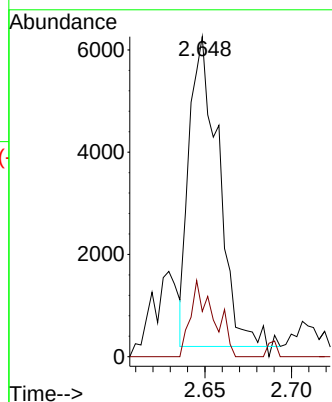
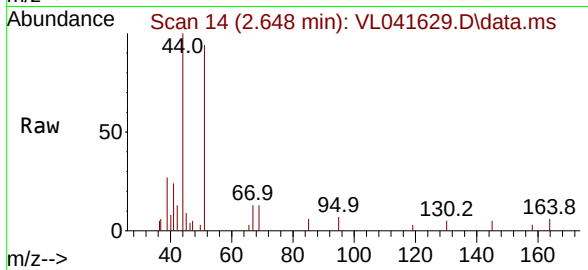
ClientSampleId :

Tgt Ion: 51 Resp: 7137

Ion Ratio Lower Upper

51 100

67 19.5 14.1 21.1



#4

Chloromethane

Concen: 0.108 ppbv

RT: 2.787 min Scan# 57

Delta R.T. -0.003 min

Lab File: VL041629.D

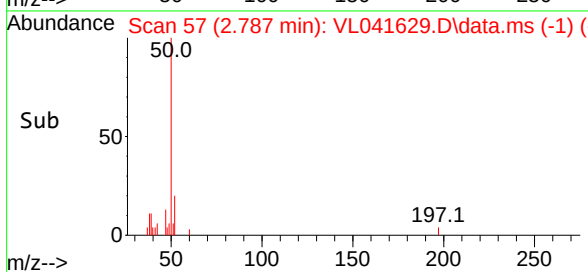
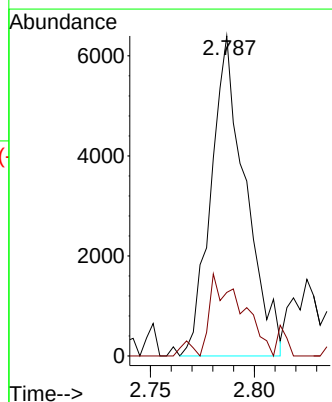
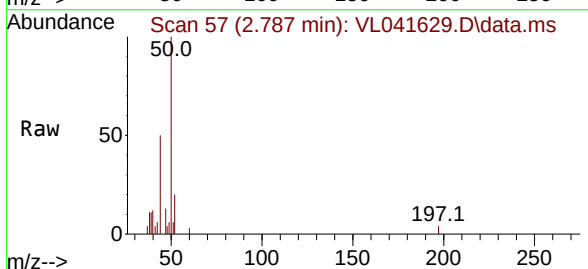
Acq: 25 Sep 2024 18:38

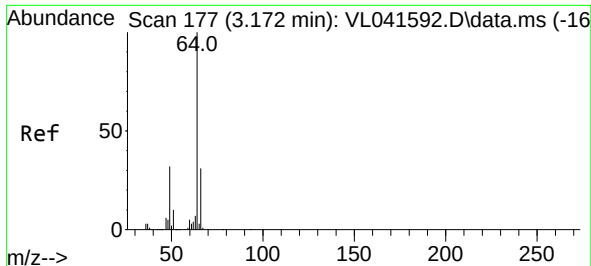
Tgt Ion: 50 Resp: 7405

Ion Ratio Lower Upper

50 100

52 17.4 25.4 38.2#

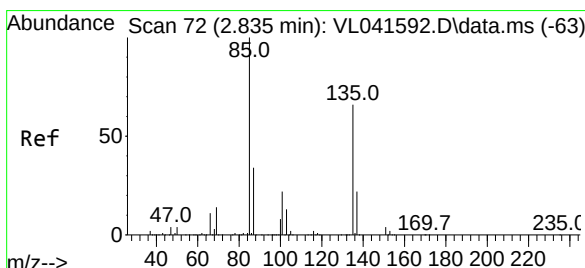
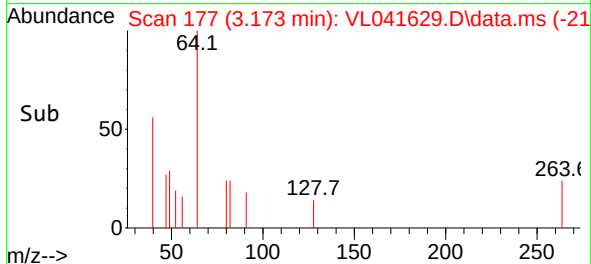
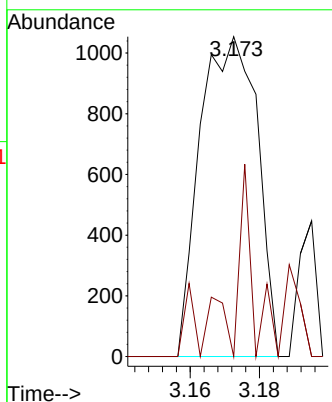
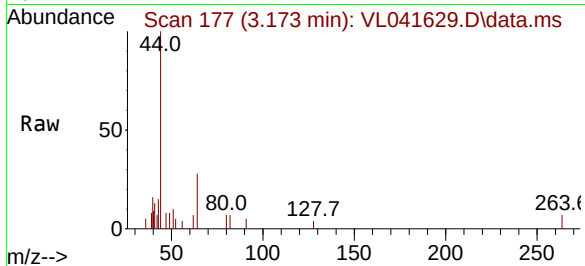




#7
Chloroethane
Concen: 0.052 ppbv
RT: 3.173 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

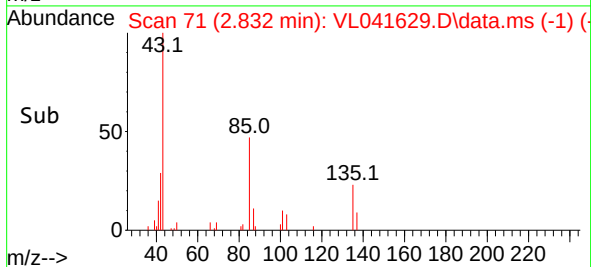
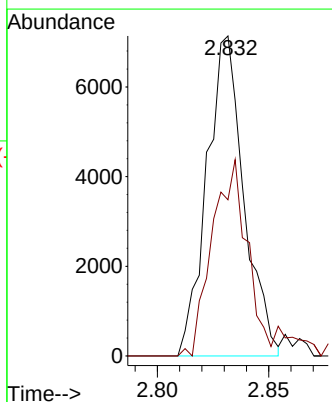
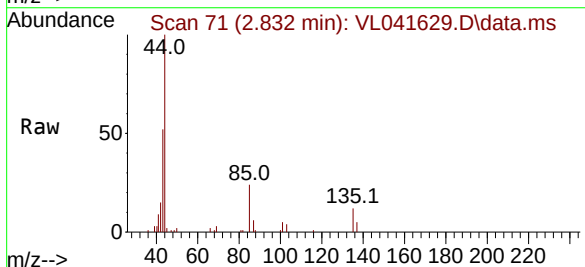
Instrument :
MSVOA_L
ClientSampleId :

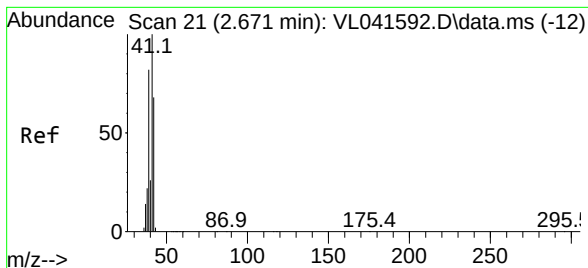
Tgt Ion: 64 Resp: 1205
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#



#8
Dichlorotetrafluoroethane
Concen: 0.053 ppbv
RT: 2.832 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

Tgt Ion: 85 Resp: 8272
Ion Ratio Lower Upper
85 100
135 63.8 53.9 80.9





#9

Propene

Concen: 1.418 ppbv

RT: 2.671 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL041629.D

Acq: 25 Sep 2024 18:38

Instrument :

MSVOA_L

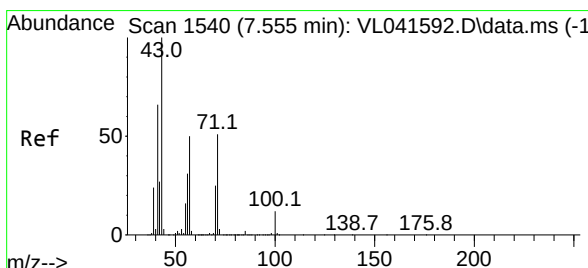
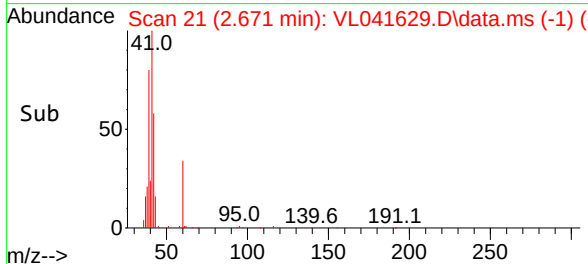
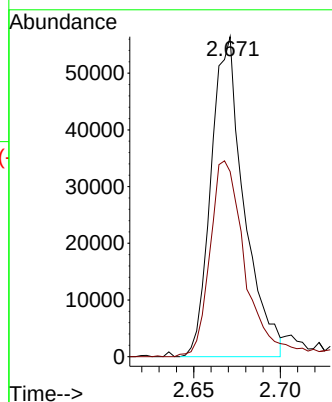
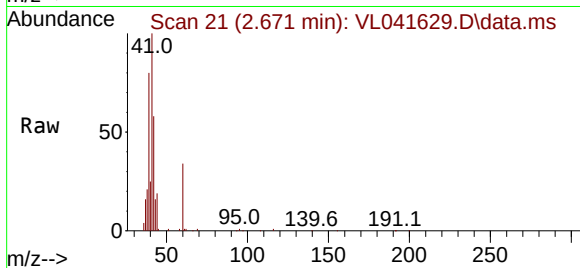
ClientSampleId :

Tgt Ion: 41 Resp: 74515

Ion Ratio Lower Upper

41 100

42 67.9 55.2 82.8



#10

Heptane

Concen: 0.307 ppbv

RT: 7.565 min Scan# 1543

Delta R.T. 0.010 min

Lab File: VL041629.D

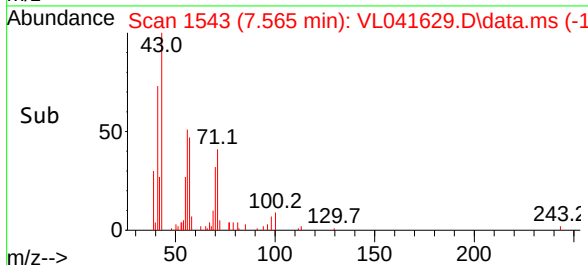
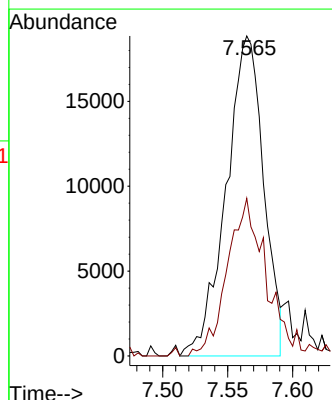
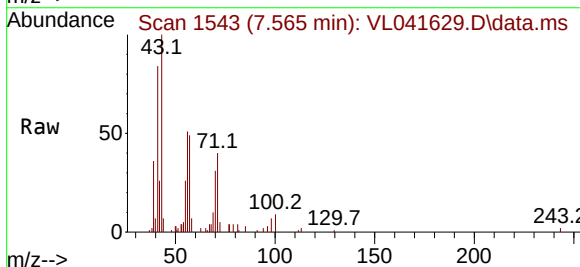
Acq: 25 Sep 2024 18:38

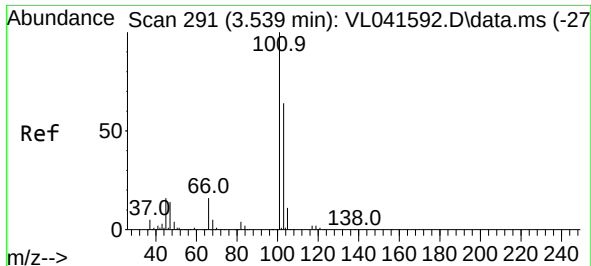
Tgt Ion: 43 Resp: 37781

Ion Ratio Lower Upper

43 100

57 52.8 39.8 59.8

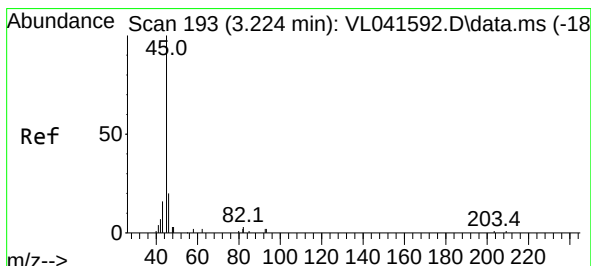
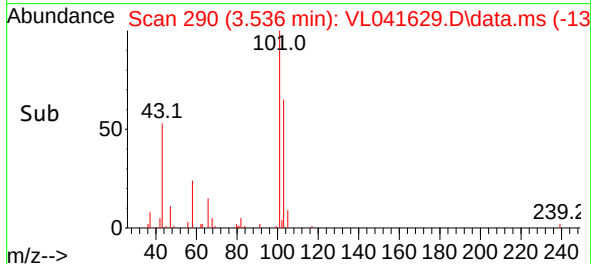
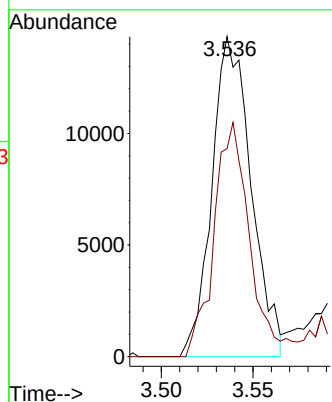
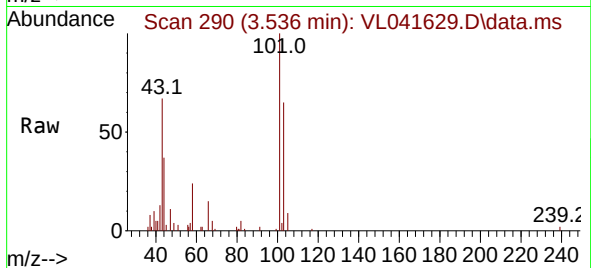




#11
 Trichlorofluoromethane
 Concen: 0.135 ppbv
 RT: 3.536 min Scan# 291
 Delta R.T. -0.003 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

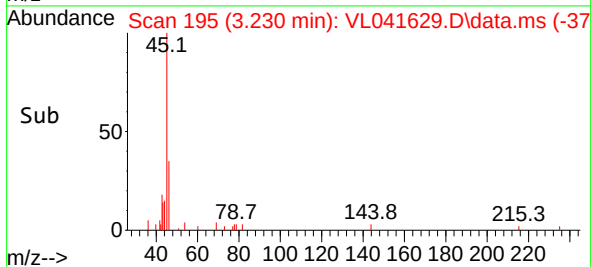
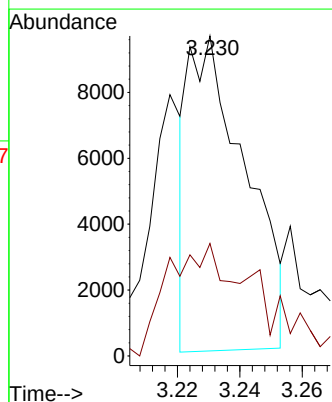
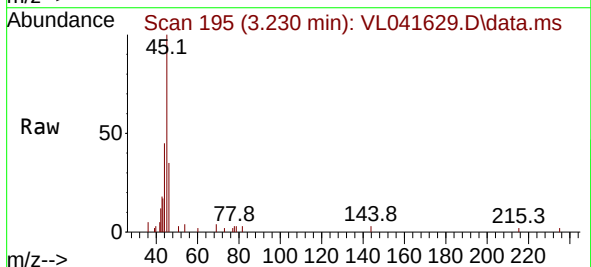
Instrument :
 MSVOA_L
 ClientSampleId :

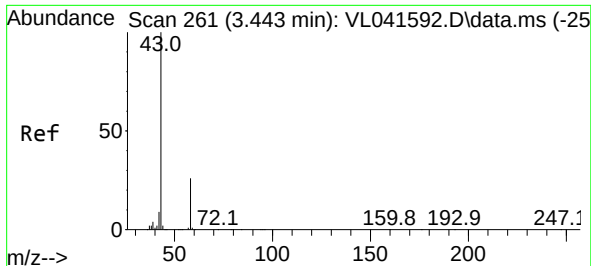
Tgt Ion:101 Resp: 21334
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.2 76.8



#13
 Ethanol
 Concen: 3.091 ppbv
 RT: 3.230 min Scan# 195
 Delta R.T. 0.007 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

Tgt Ion: 45 Resp: 12209
 Ion Ratio Lower Upper
 45 100
 46 55.8 15.2 60.8

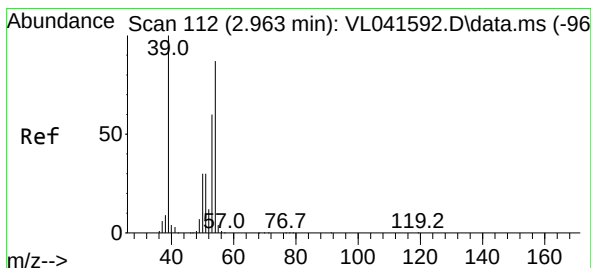
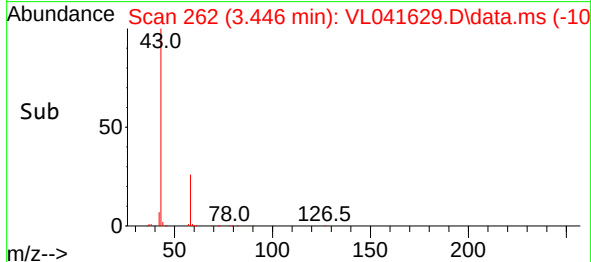
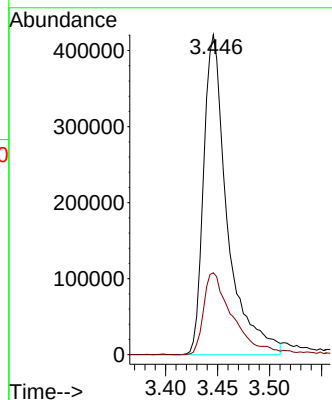
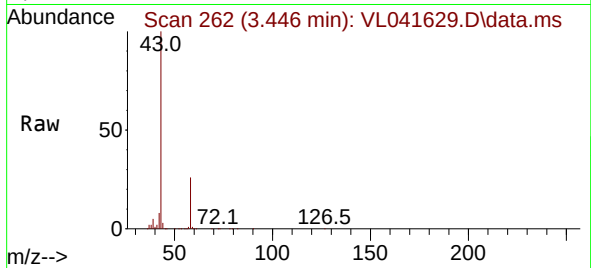




#15
Acetone
Concen: 5.195 ppbv
RT: 3.446 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

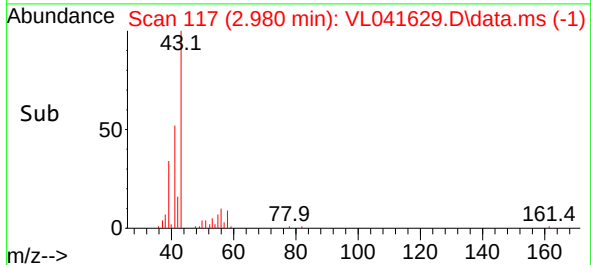
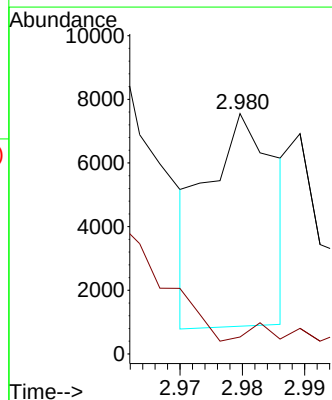
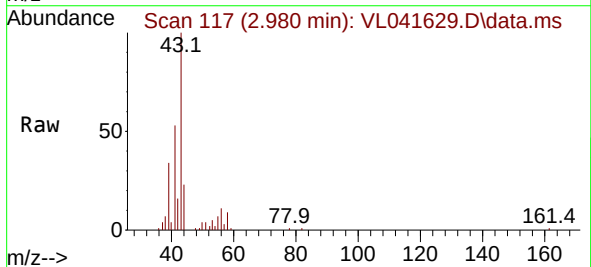
Instrument :
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ClientSampleId :

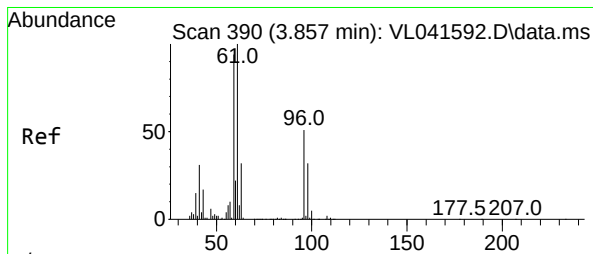
Tgt Ion: 43 Resp: 669683
Ion Ratio Lower Upper
43 100
58 32.3 21.5 32.3#



#16
1,3-Butadiene
Concen: 0.082 ppbv
RT: 2.980 min Scan# 117
Delta R.T. 0.016 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

Tgt Ion: 39 Resp: 5123
Ion Ratio Lower Upper
39 100
54 0.0 62.9 94.3#

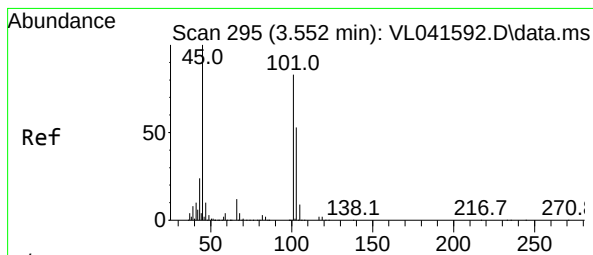
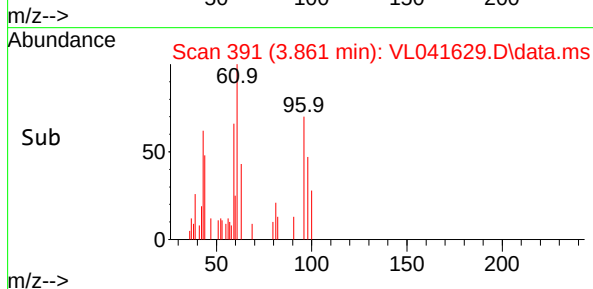
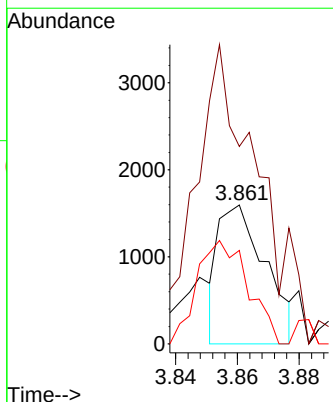
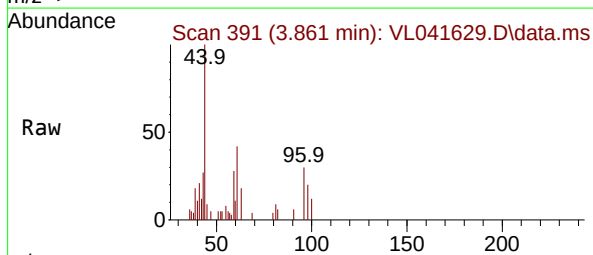




#18
 1,1-Dichloroethene
 Concen: 0.035 ppbv
 RT: 3.861 min Scan# 301
 Delta R.T. 0.003 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

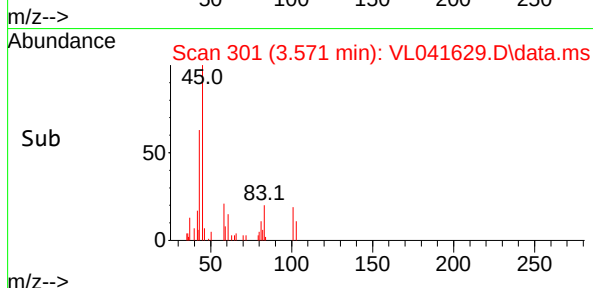
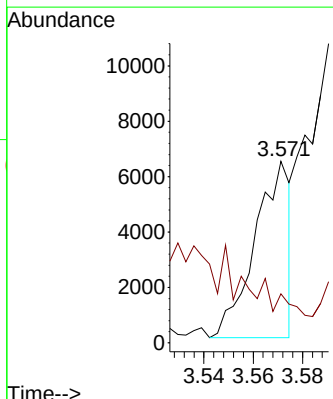
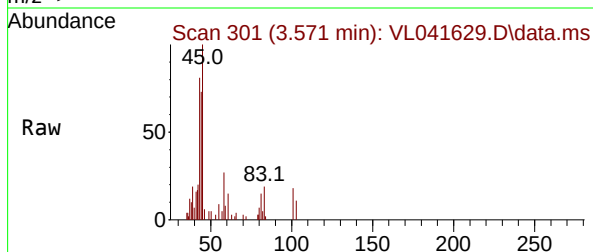
Instrument : MSVOA_L
 ClientSampleId :

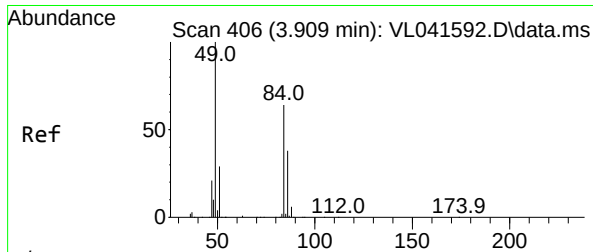
Tgt Ion: 96 Resp: 1690
 Ion Ratio Lower Upper
 96 100
 61 84.2 155.6 233.4#
 98 96.2 50.6 75.8#



#19
 Isopropyl Alcohol
 Concen: 0.096 ppbv
 RT: 3.571 min Scan# 301
 Delta R.T. 0.019 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

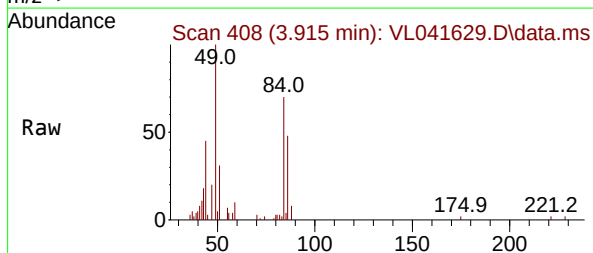
Tgt Ion: 45 Resp: 6310
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.1 3.1#





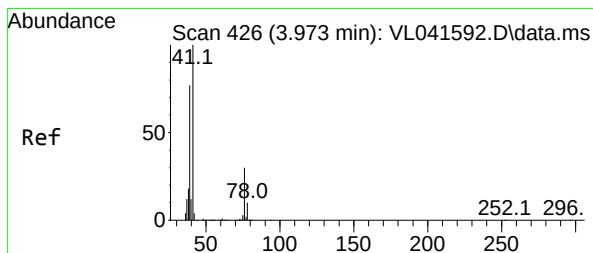
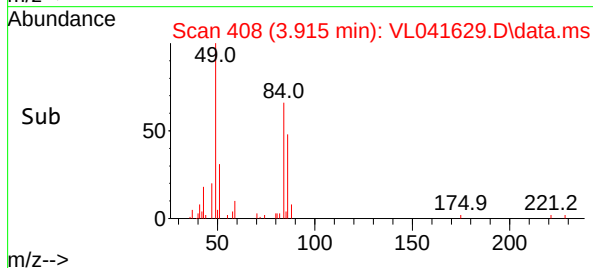
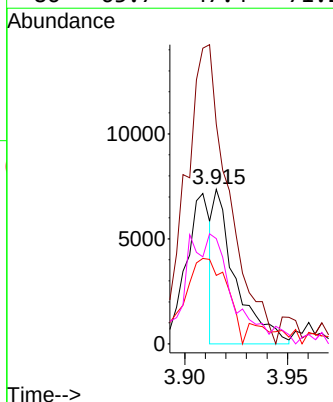
#20
Methylene Chloride
Concen: 0.114 ppbv
RT: 3.915 min Scan# 406
Delta R.T. 0.007 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 5525

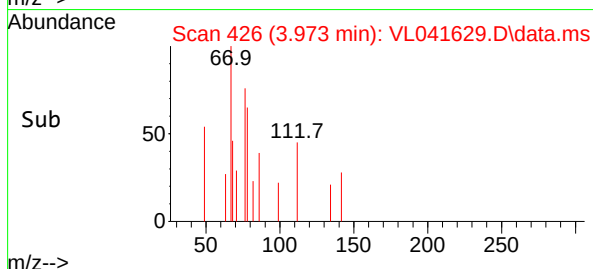
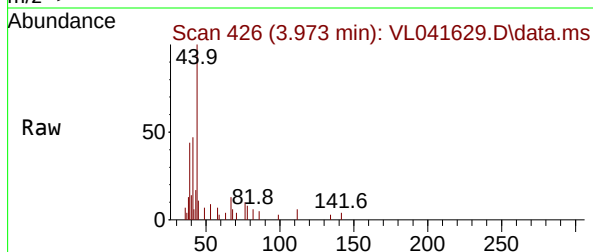
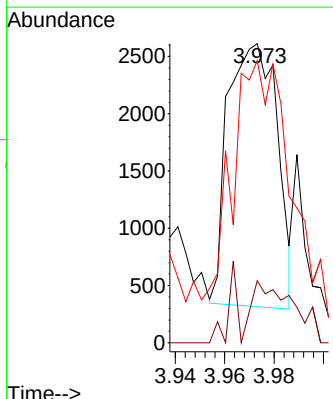
Ion	Ratio	Lower	Upper
84	100		
49	128.3	124.3	186.5
51	40.9	36.3	54.5
86	63.7	47.4	71.2

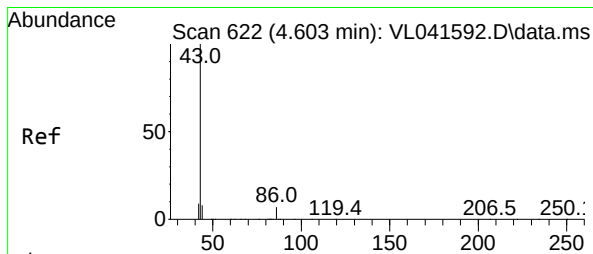


#21
Allyl Chloride
Concen: 0.043 ppbv
RT: 3.973 min Scan# 426
Delta R.T. 0.000 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

Tgt Ion: 41 Resp: 3178

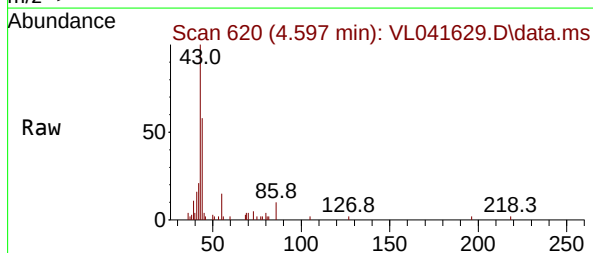
Ion	Ratio	Lower	Upper
41	100		
76	25.4	23.8	35.6
39	134.7	63.9	95.9#



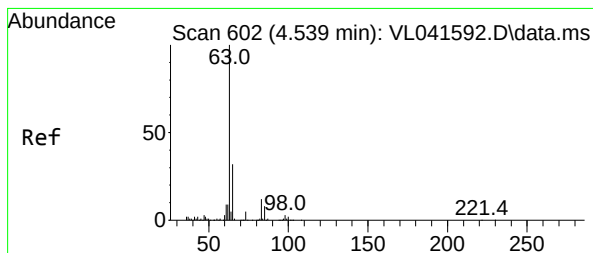
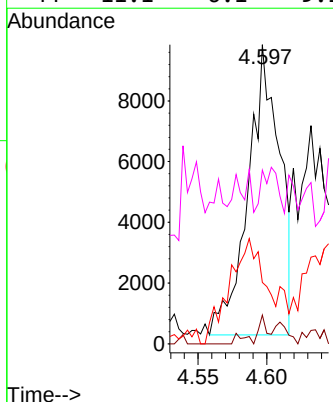
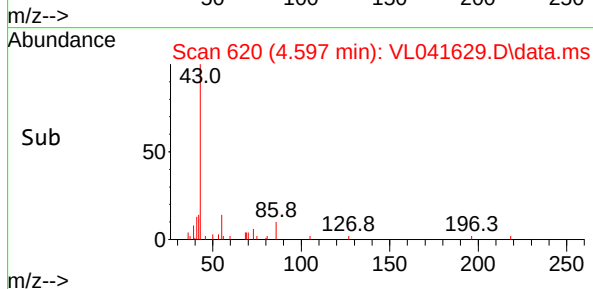


#23
 Vinyl Acetate
 Concen: 0.216 ppbv
 RT: 4.597 min Scan# 620
 Delta R.T. -0.006 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

Instrument :
 MSVOA_L
 ClientSampleId :

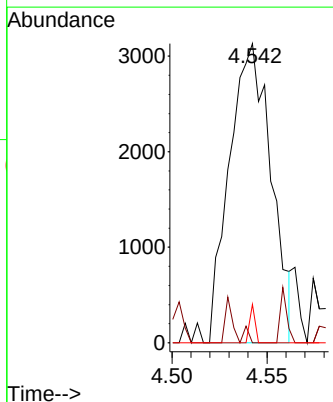
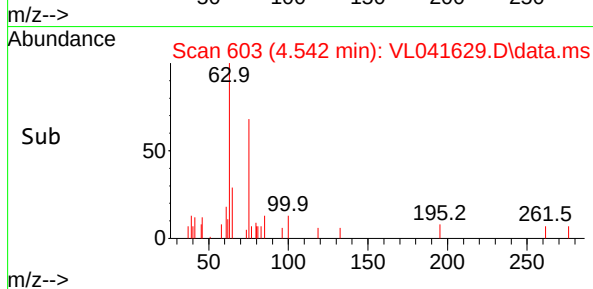
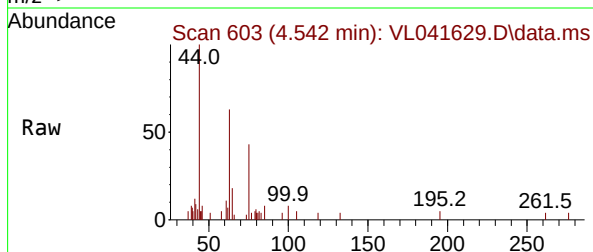


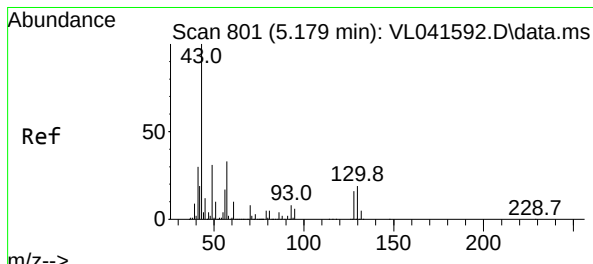
Tgt Ion: 43 Resp: 15319
 Ion Ratio Lower Upper
 43 100
 86 9.9 4.9 7.3#
 42 13.8 8.0 12.0#
 44 11.1 6.1 9.1#



#24
 1,1-Dichloroethane
 Concen: 0.045 ppbv
 RT: 4.542 min Scan# 603
 Delta R.T. 0.003 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

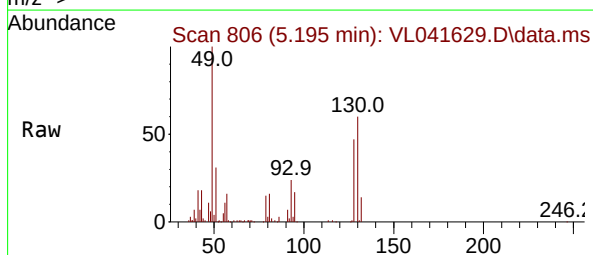
Tgt Ion: 63 Resp: 4776
 Ion Ratio Lower Upper
 63 100
 98 0.0 1.7 5.1#
 100 12.8 1.1 3.3#



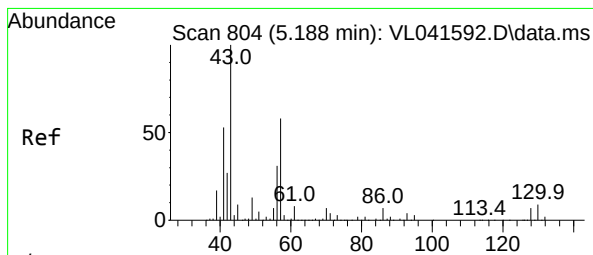
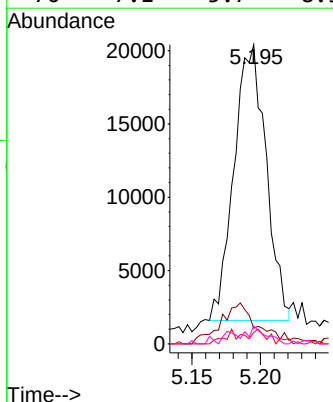
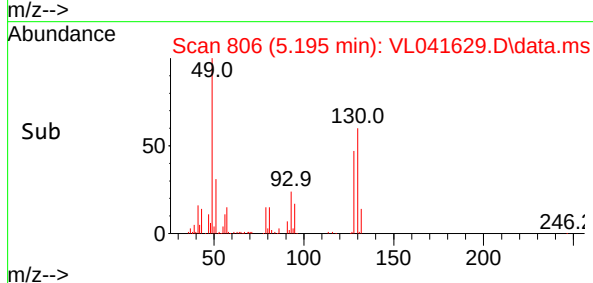


#25
Ethyl Acetate
Concen: 0.132 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.016 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

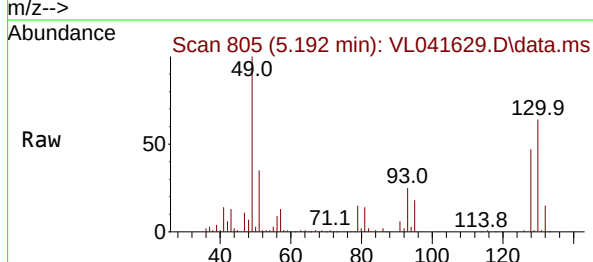
Instrument :
MSVOA_L
ClientSampleId :



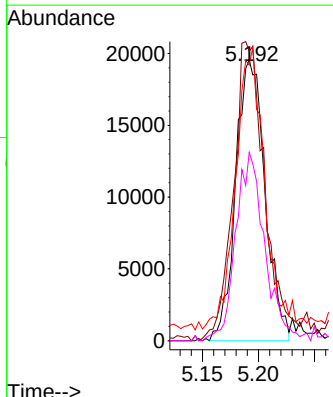
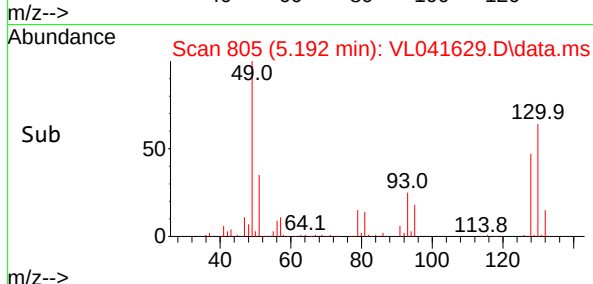
Tgt Ion: 43 Resp: 30510
Ion Ratio Lower Upper
43 100
45 19.2 8.2 12.2#
61 5.7 8.0 12.0#
70 7.1 5.7 8.5

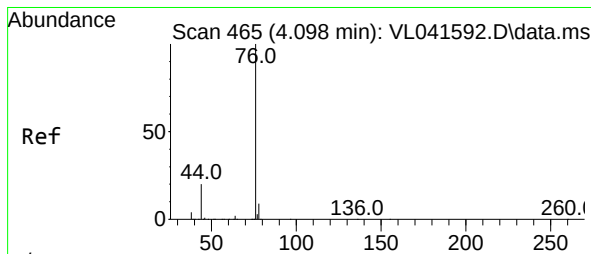


#26
Hexane
Concen: 0.369 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.003 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38



Tgt Ion: 57 Resp: 35650
Ion Ratio Lower Upper
57 100
41 117.9 75.7 113.5#
43 102.9 198.5 297.7#
56 66.1 44.1 66.1

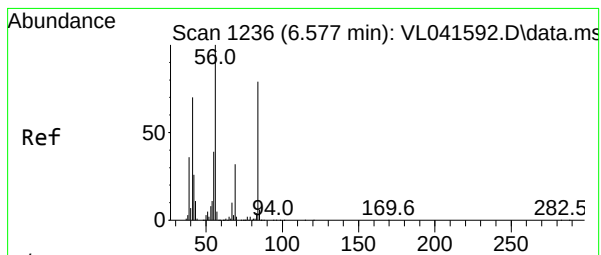
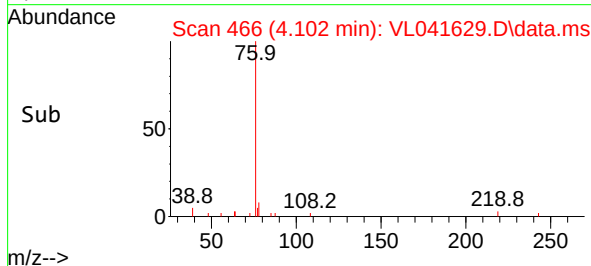
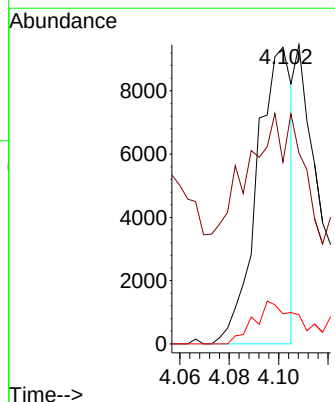
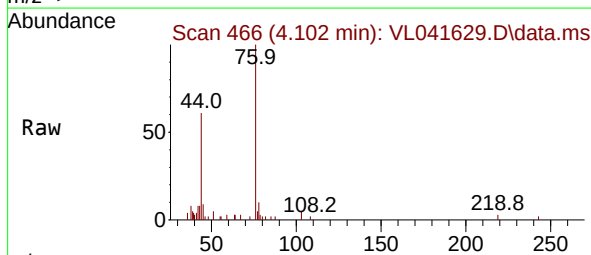




#27
Carbon Disulfide
Concen: 0.089 ppbv
RT: 4.102 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

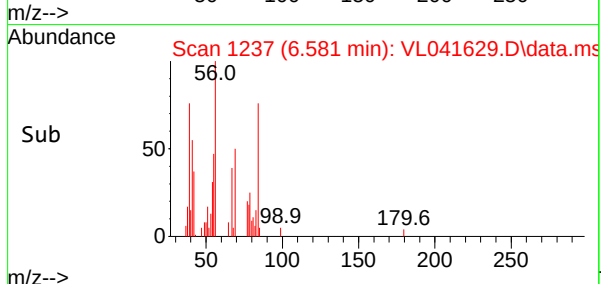
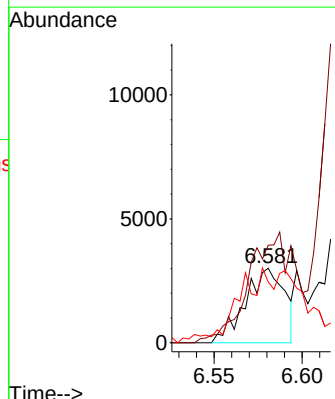
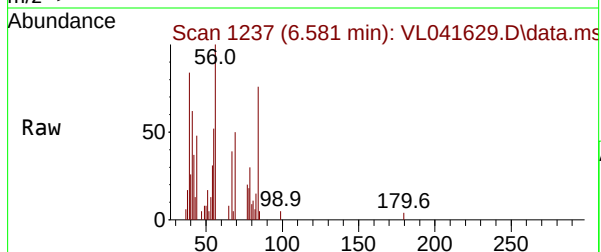
Instrument :
MSVOA_L
ClientSampleId :

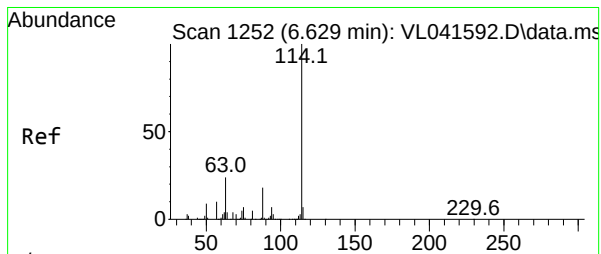
Tgt Ion: 76 Resp: 9179
Ion Ratio Lower Upper
76 100
44 73.4 15.8 23.8#
78 25.0 7.5 11.3#



#30
Cyclohexane
Concen: 0.063 ppbv
RT: 6.581 min Scan# 1237
Delta R.T. 0.003 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

Tgt Ion: 84 Resp: 4659
Ion Ratio Lower Upper
84 100
56 0.0 111.5 167.3#
41 140.5 70.9 106.3#



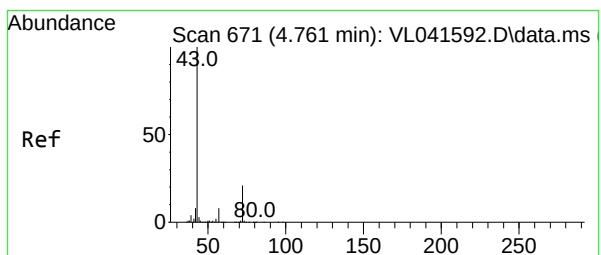
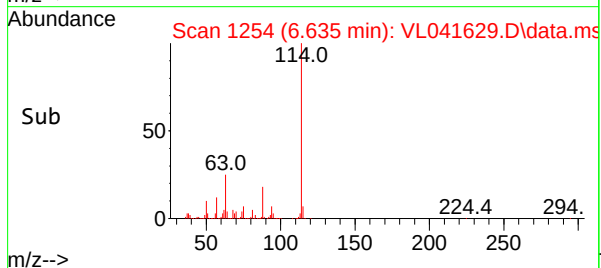
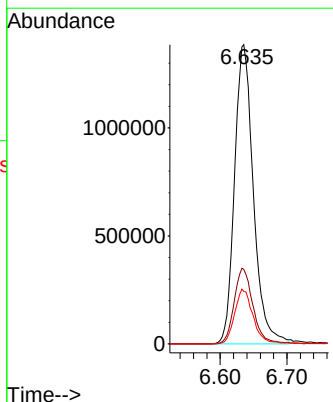
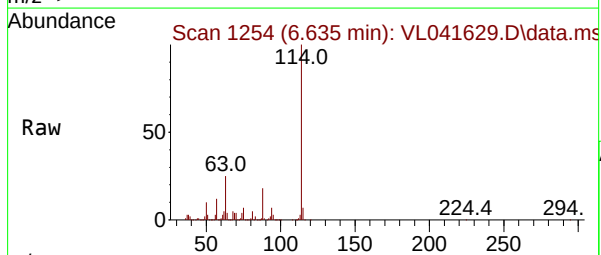


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.635 min Scan# 1
 Delta R.T. 0.007 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion:114 Resp: 2720772

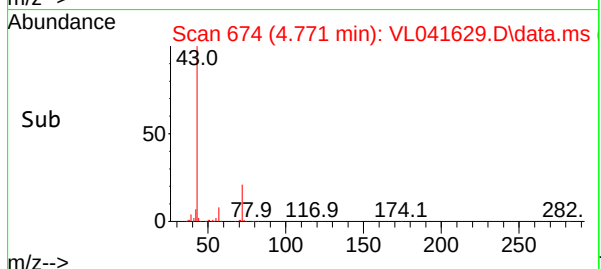
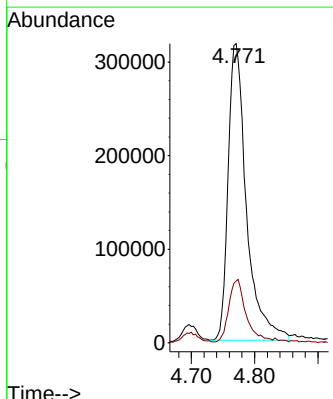
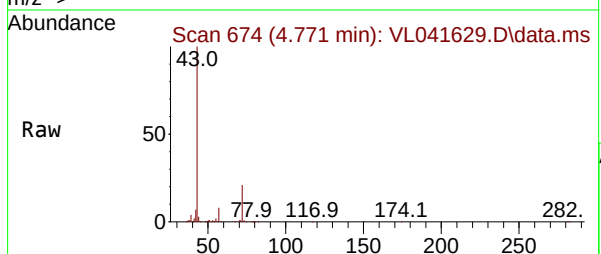
Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.2	30.2
88	18.0	14.2	21.4

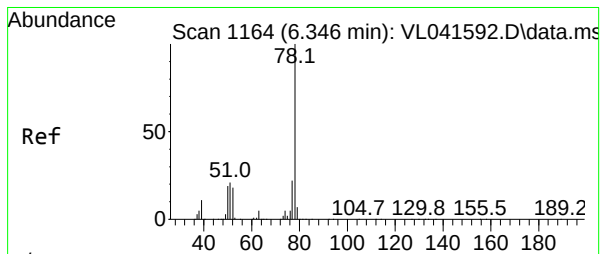


#34
 2-Butanone
 Concen: 4.921 ppbv
 RT: 4.771 min Scan# 674
 Delta R.T. 0.010 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

Tgt Ion: 43 Resp: 638390

Ion	Ratio	Lower	Upper
43	100		
72	21.8	16.8	25.2

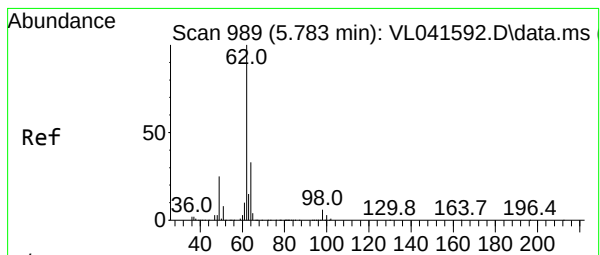
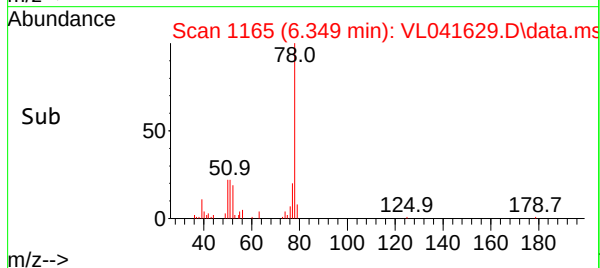
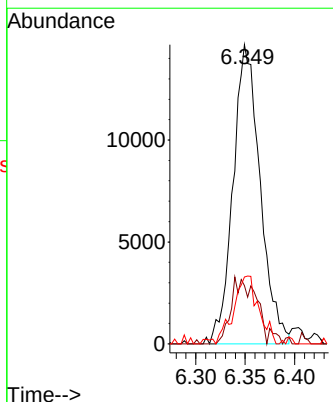
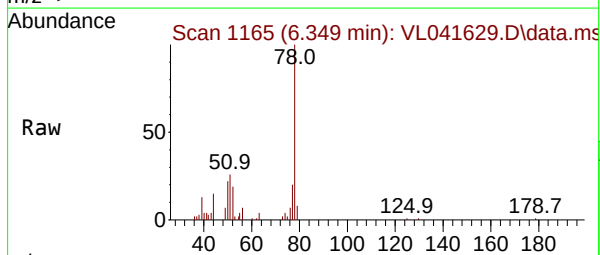




#36
Benzene
Concen: 0.148 ppbv
RT: 6.349 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

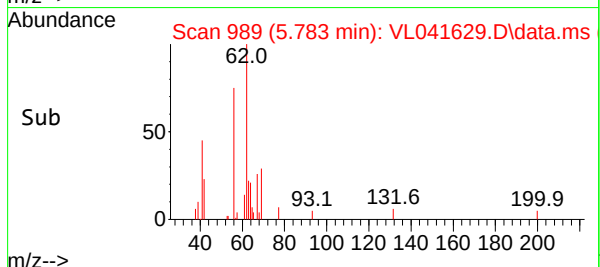
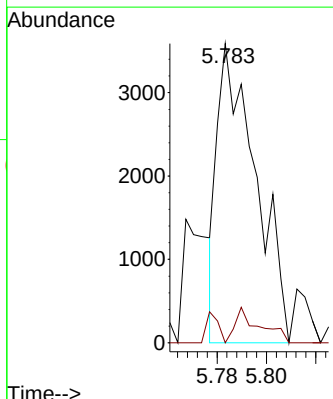
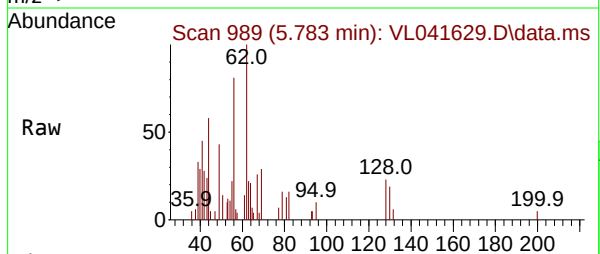
Instrument :
MSVOA_L
ClientSampleId :

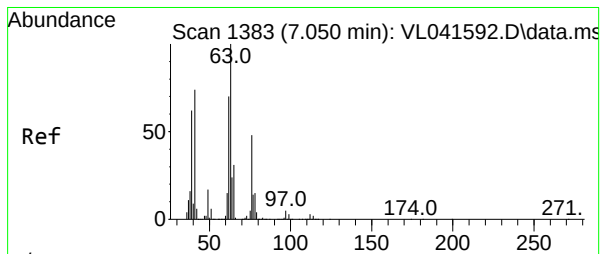
Tgt Ion: 78 Resp: 27909
Ion Ratio Lower Upper
78 100
77 20.0 17.8 26.6
50 21.7 15.4 23.0



#37
1,2-Dichloroethane
Concen: 0.035 ppbv
RT: 5.783 min Scan# 989
Delta R.T. 0.000 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

Tgt Ion: 62 Resp: 3864
Ion Ratio Lower Upper
62 100
98 10.7 4.8 7.2#

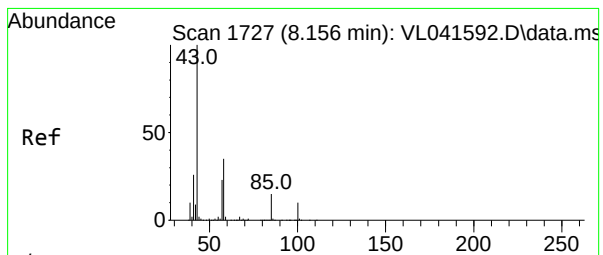
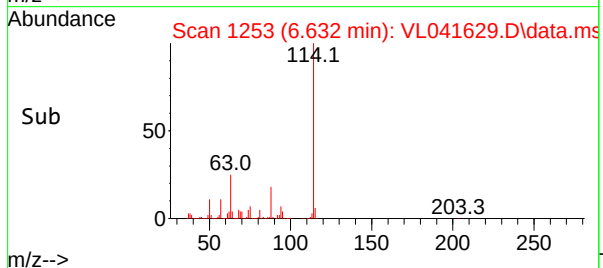
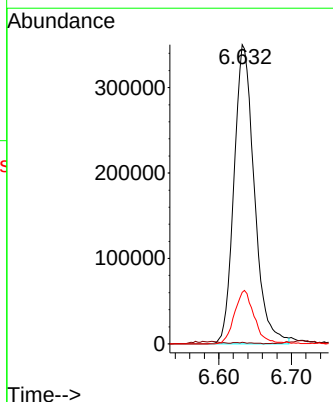
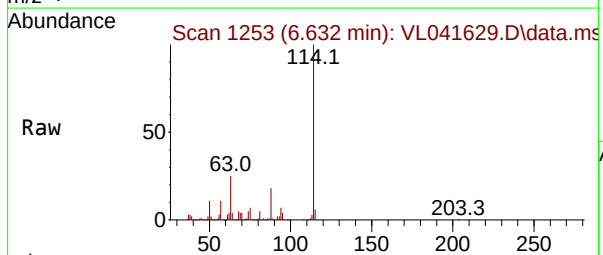




#39
 1,2-Dichloropropane
 Concen: 8.863 ppbv
 RT: 6.632 min Scan# 1
 Delta R.T. -0.418 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

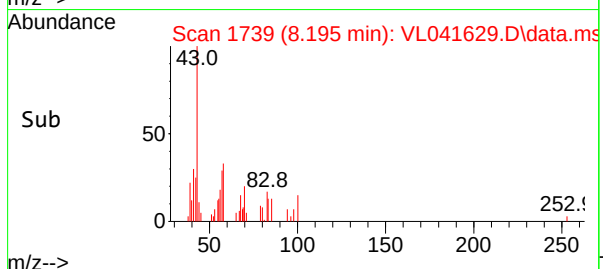
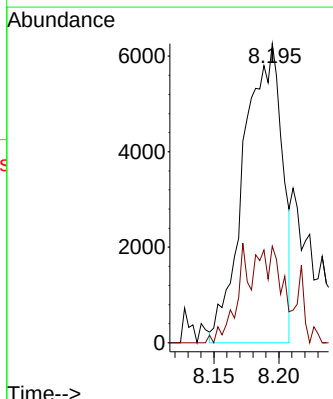
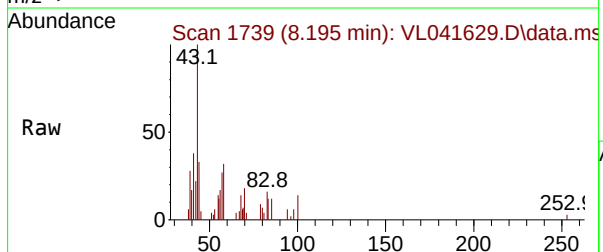
Instrument :
 MSVOA_L
 ClientSampleId :

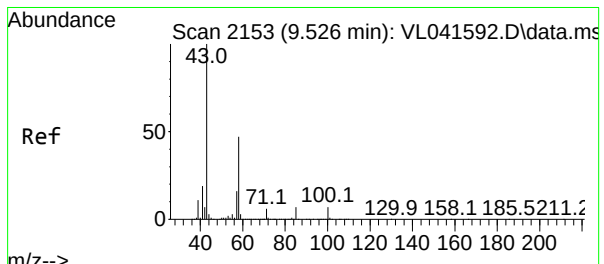
Tgt Ion: 63 Resp: 681292
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.5 89.3#
 62 17.1 56.2 84.2#



#50
 4-Methyl-2-Pentanone
 Concen: 0.064 ppbv
 RT: 8.195 min Scan# 1739
 Delta R.T. 0.039 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

Tgt Ion: 43 Resp: 12832
 Ion Ratio Lower Upper
 43 100
 58 38.2 27.8 41.8



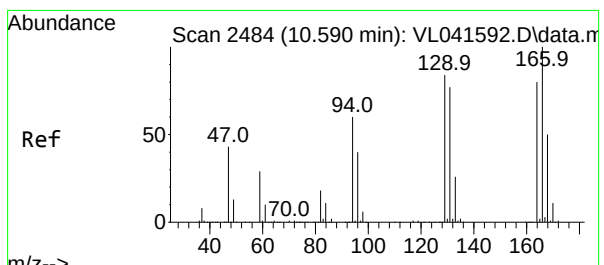
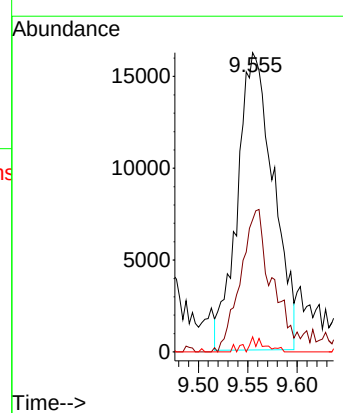
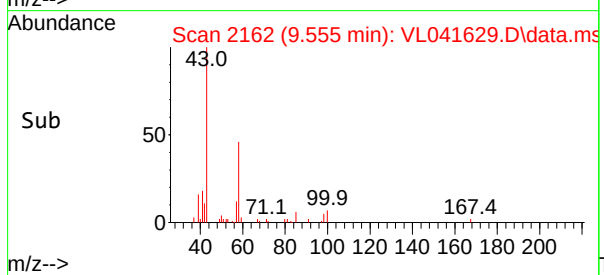
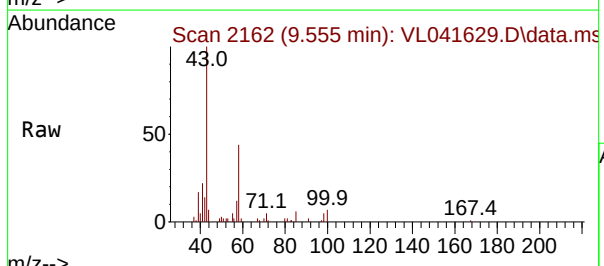


#51
 2-Hexanone
 Concen: 0.271 ppbv
 RT: 9.555 min Scan# 2153
 Delta R.T. 0.029 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

Instrument : MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 41117

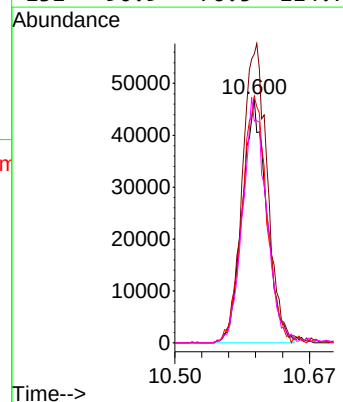
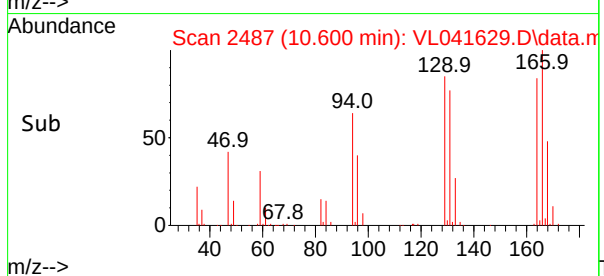
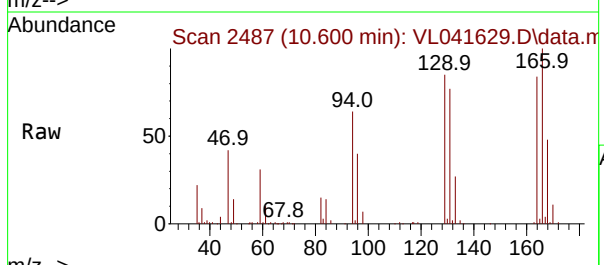
Ion	Ratio	Lower	Upper
43	100		
58	46.2	37.2	55.8
98	2.4	0.5	0.7#

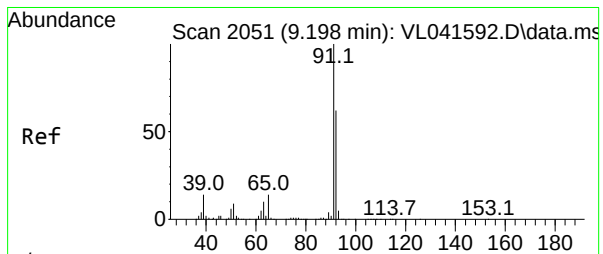


#52
 Tetrachloroethene
 Concen: 1.499 ppbv
 RT: 10.600 min Scan# 2487
 Delta R.T. 0.010 min
 Lab File: VL041629.D
 Acq: 25 Sep 2024 18:38

Tgt Ion: 164 Resp: 102556

Ion	Ratio	Lower	Upper
164	100		
166	118.0	99.4	149.2
129	101.1	83.5	125.3
131	90.9	76.5	114.7

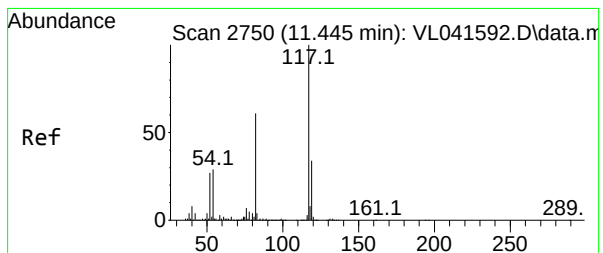
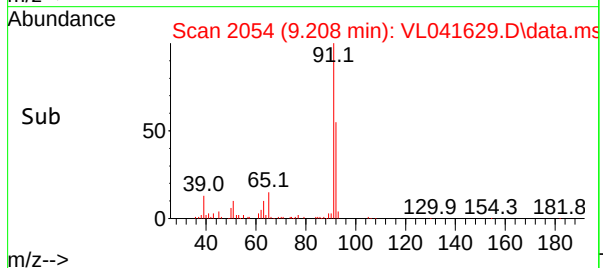
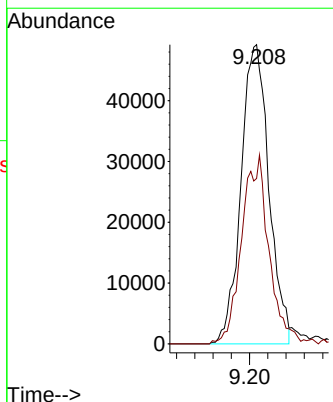
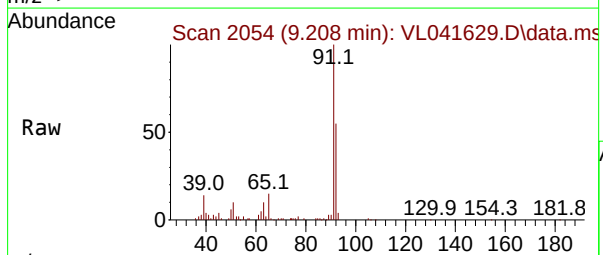




#53
Toluene
Concen: 0.520 ppbv
RT: 9.208 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

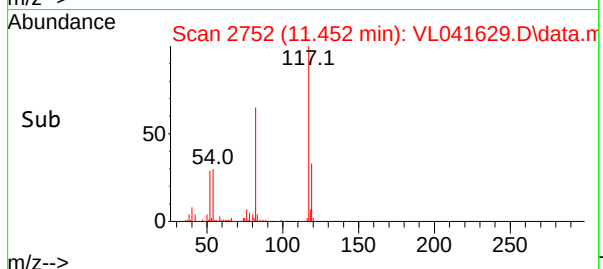
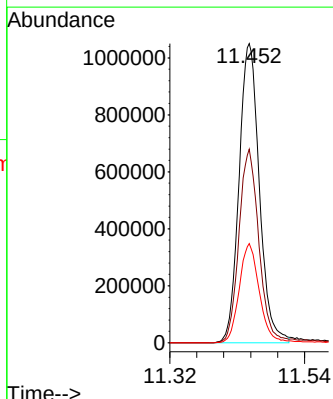
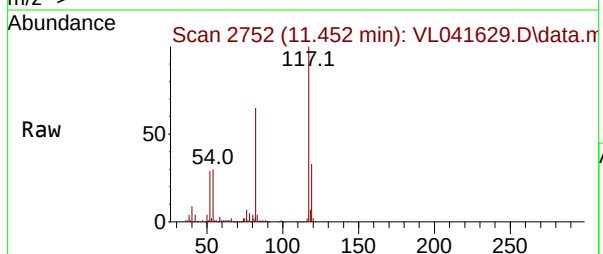
Instrument :
MSVOA_L
ClientSampleId :

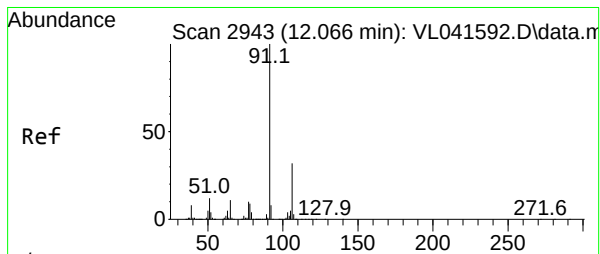
Tgt Ion: 91 Resp: 104319
Ion Ratio Lower Upper
91 100
92 62.3 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.007 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

Tgt Ion: 117 Resp: 2399818
Ion Ratio Lower Upper
117 100
82 65.3 49.4 74.2
119 33.4 24.4 36.6

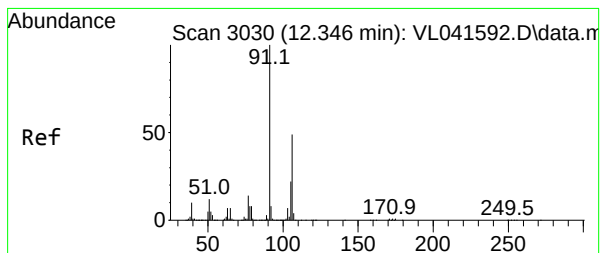
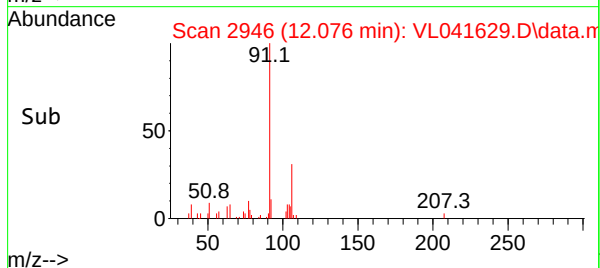
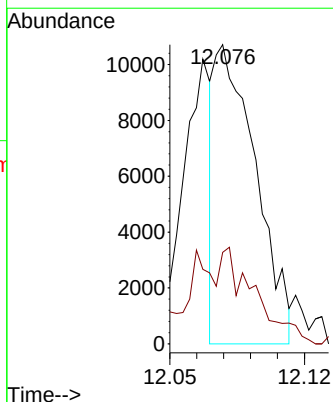
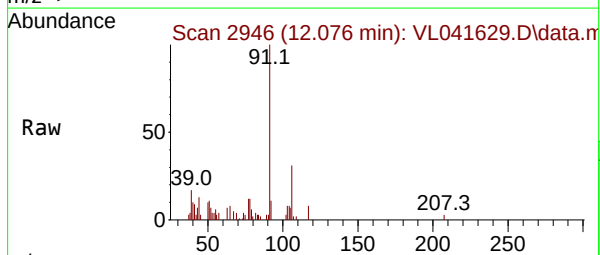




#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 12.076 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

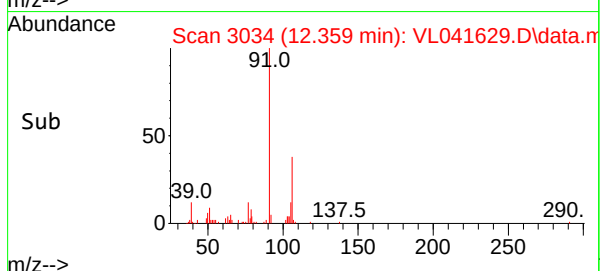
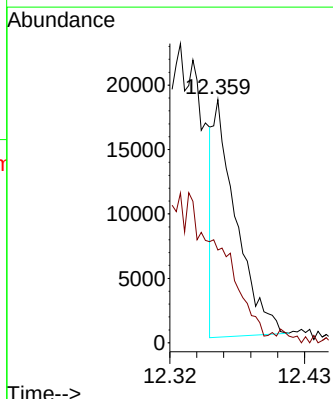
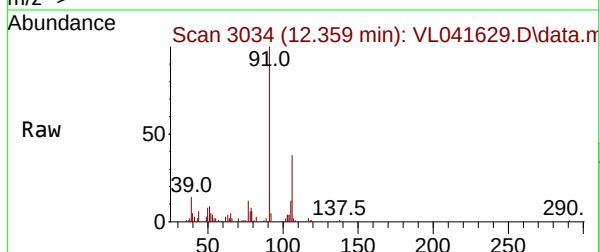
Instrument :
MSVOA_L
ClientSampleId :

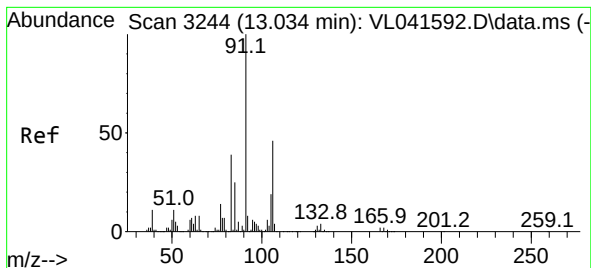
Tgt Ion: 91 Resp: 14919
Ion Ratio Lower Upper
91 100
106 26.9 25.8 38.6



#59
m/p-Xylene
Concen: 0.101 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. 0.013 min
Lab File: VL041629.D
Acq: 25 Sep 2024 18:38

Tgt Ion: 91 Resp: 23157
Ion Ratio Lower Upper
91 100
106 0.0 36.8 55.2#





#60

o-Xylene

Concen: 0.058 ppbv

RT: 13.044 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL041629.D

Acq: 25 Sep 2024 18:38

Instrument :

MSVOA_L

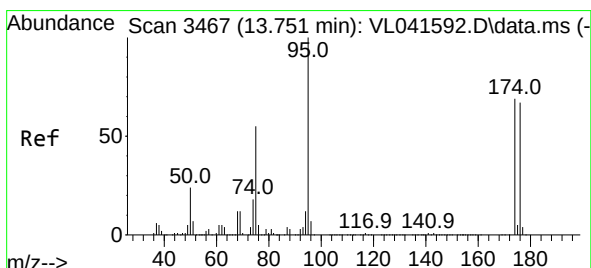
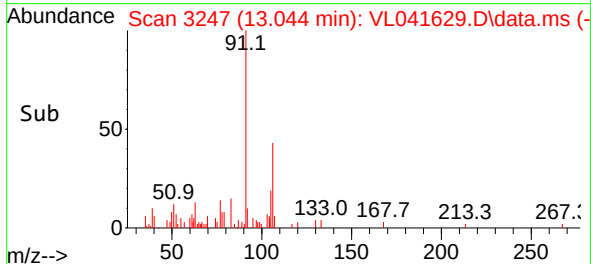
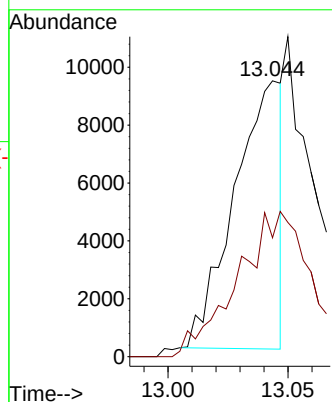
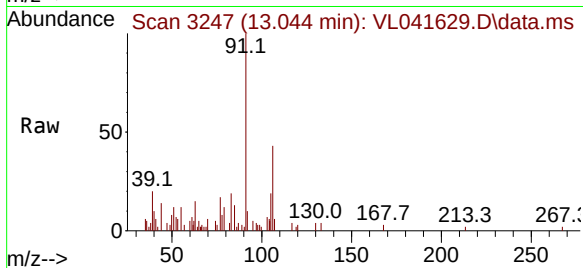
ClientSampleId :

Tgt Ion: 91 Resp: 12685

Ion Ratio Lower Upper

91 100

106 0.0 23.1 69.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.987 ppbv

RT: 13.764 min Scan# 3471

Delta R.T. 0.013 min

Lab File: VL041629.D

Acq: 25 Sep 2024 18:38

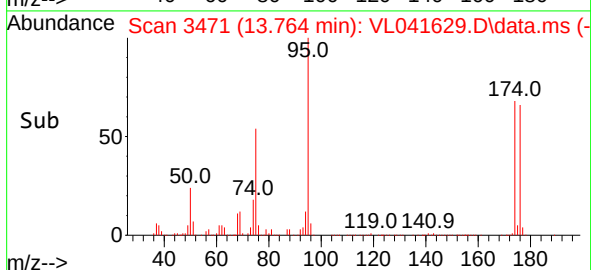
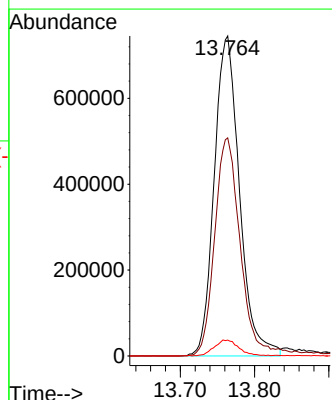
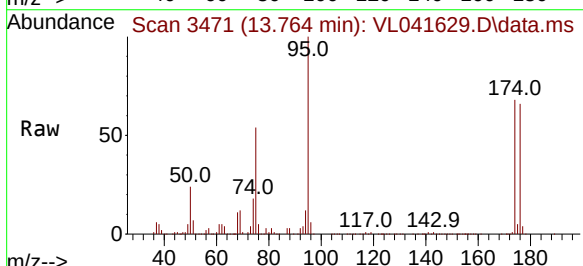
Tgt Ion: 95 Resp: 1764362

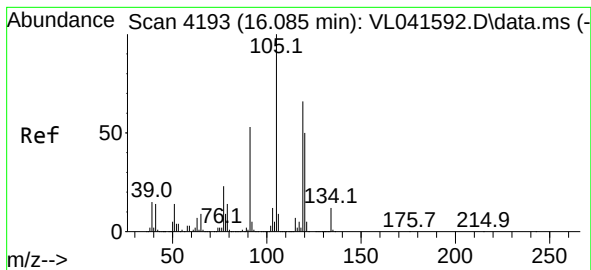
Ion Ratio Lower Upper

95 100

174 71.4 55.8 83.8

175 5.0 4.1 6.1





#74

1,2,4-Trimethylbenzene

Concen: 0.036 ppbv

RT: 16.092 min Scan# 41

Delta R.T. 0.007 min

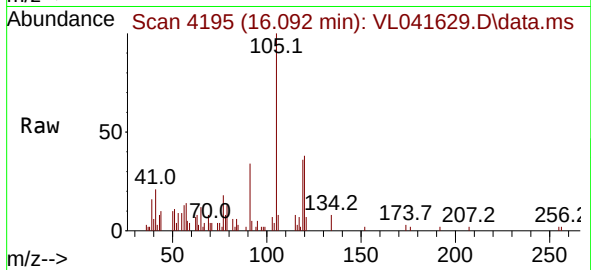
Lab File: VL041629.D

Acq: 25 Sep 2024 18:38

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 9666

Ion Ratio Lower Upper

105 100

120 17.9 39.9 59.9#

91 13.3 42.6 63.8#

77 2.5 18.2 27.2#

