

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042419.D
 Acq On : 28 Apr 2025 10:59
 Operator : SY/MD
 Sample : Q1665-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-3242025

Quant Time: Apr 29 01:33:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	141298	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	401917	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	351139	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	302429	10.481	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	11370	0.455	ppbv	96
3) Chlorodifluoromethane	1.842	51	6601	0.278	ppbv	98
4) Chloromethane	1.531	50	4722	0.478	ppbv #	79
7) Chloroethane	1.489	64	154	0.040	ppbv #	44
9) Propene	1.557	41	266169	24.586	ppbv	98
10) Heptane	4.965	43	9317	0.306	ppbv #	63
11) Trichlorofluoromethane	1.874	101	5024	0.212	ppbv	97
12) 1,1,2-Trichlorotri fluo...	2.136	101	1181	0.061	ppbv #	76
13) Ethanol	1.719	45	460303	267.501	ppbv	76
15) Acetone	1.832	43	493322	21.327	ppbv #	81
16) 1,3-Butadiene	1.599	39	5437	0.491	ppbv #	50
17) tert-Butyl alcohol	2.039	59	88272	3.079	ppbv	99
19) Isopropyl Alcohol	1.884	45	414153	32.231	ppbv #	66
20) Methylene Chloride	2.059	84	10525	1.162	ppbv	85
21) Allyl Chloride	2.039	41	19969	1.250	ppbv #	72
23) Vinyl Acetate	2.463	43	40479	4.323	ppbv #	73
25) Ethyl Acetate	2.826	43	51192	0.898	ppbv #	81
26) Hexane	2.819	57	52451	2.273	ppbv #	43
27) Carbon Disulfide	2.149	76	1231	0.050	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	580	0.038	ppbv #	48
29) Chloroform	2.842	83	1773	0.054	ppbv	88
30) Cyclohexane	3.849	84	3366	0.180	ppbv #	39
34) 2-Butanone	2.557	43	27638	0.869	ppbv	99
35) Carbon Tetrachloride	3.755	117	1663	0.046	ppbv #	74
36) Benzene	3.648	78	21233	0.490	ppbv	98
37) 1,2-Dichloroethane	3.211	62	11865	0.456	ppbv	100
39) 1,2-Dichloropropane	3.952	63	110449	6.837	ppbv #	22
41) Tetrahydrofuran	3.056	42	927	0.050	ppbv #	35
44) 2,2,4-Trimethylpentane	4.635	57	26094	0.349	ppbv #	42
51) 2-Hexanone	7.419	43	2761	0.058	ppbv #	27
52) Tetrachloroethene	8.211	164	664	0.040	ppbv #	41
53) Toluene	6.923	91	241564	4.644	ppbv	99
58) Ethyl Benzene	9.348	91	39060	0.561	ppbv	95
59) m/p-Xylene	9.526	91	78855	1.407	ppbv	100
60) o-Xylene	9.959	91	32637	0.578	ppbv	97
61) Styrene	9.869	104	12396	0.460	ppbv	94
62) Isopropylbenzene	10.529	105	3245	0.039	ppbv #	50
64) n-propylbenzene	10.985	120	2557	0.123	ppbv	89
65) tert-Butylbenzene	11.532	119	4429	0.058	ppbv #	58
67) sec-Butylbenzene	11.769	105	9075	0.086	ppbv #	1
69) p-Isopropyltoluene	11.924	119	6420	0.070	ppbv	94
70) n-Butylbenzene	12.277	91	3378	0.035	ppbv #	83
72) 4-Ethyltoluene	11.121	105	9307	0.135	ppbv #	56

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

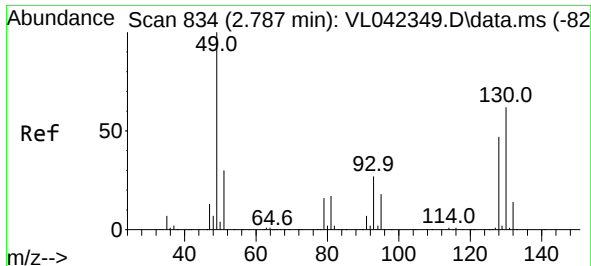
Quant Time: Apr 29 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	11.199	105	10799	0.177	ppbv	90
74) 1,2,4-Trimethylbenzene	11.532	105	33801	0.475	ppbv #	61
79) Naphthalene	13.507	128	9645	0.113	ppbv	99
81) 1,2,4-Trichlorobenzene	13.432	180	1680	0.046	ppbv #	93

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

Quant Time: Apr 29 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

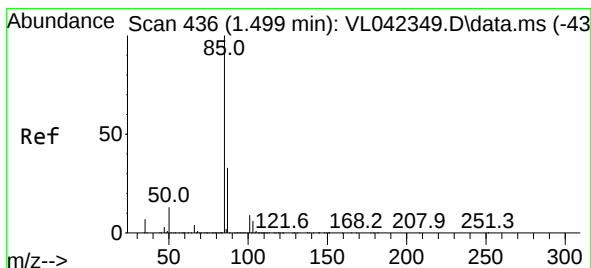
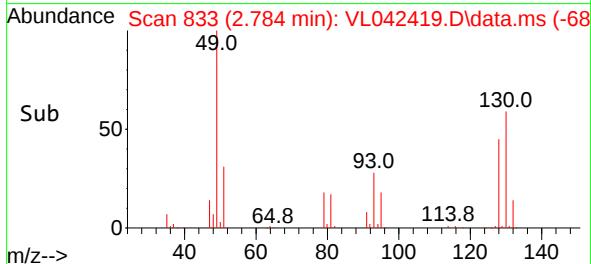
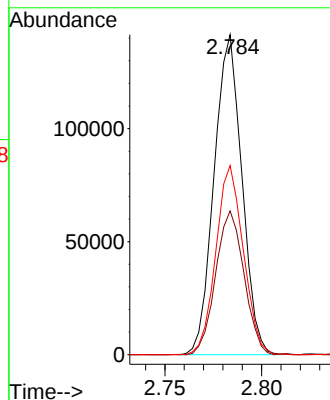
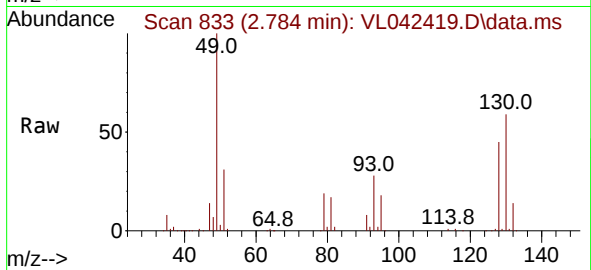




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

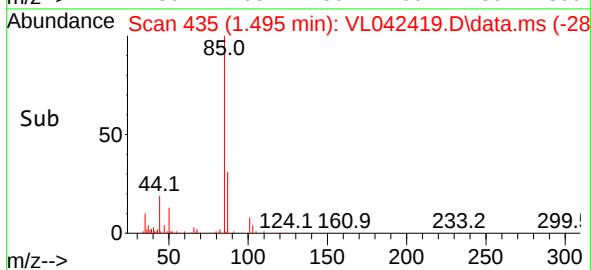
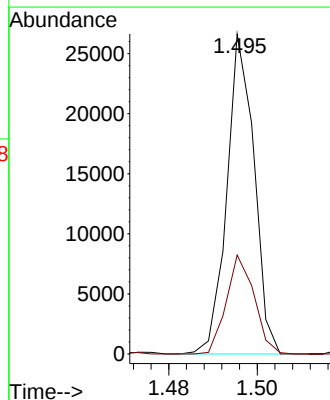
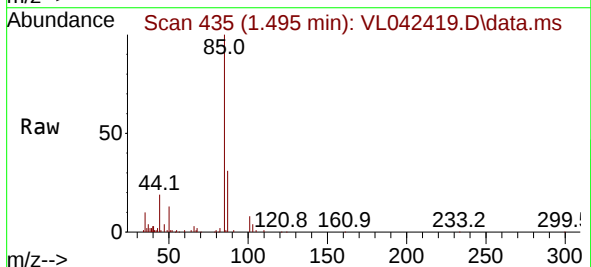
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

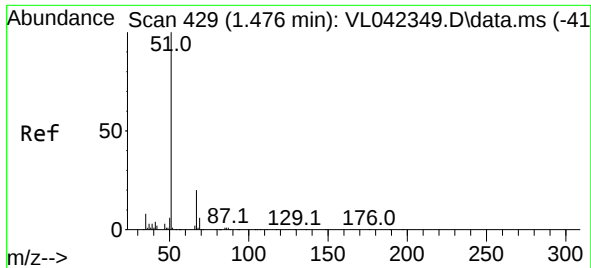
Tgt Ion: 49 Resp: 141298
Ion Ratio Lower Upper
49 100
128 45.8 22.8 68.4
130 58.6 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.455 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 85 Resp: 11370
Ion Ratio Lower Upper
85 100
87 30.9 26.6 39.8

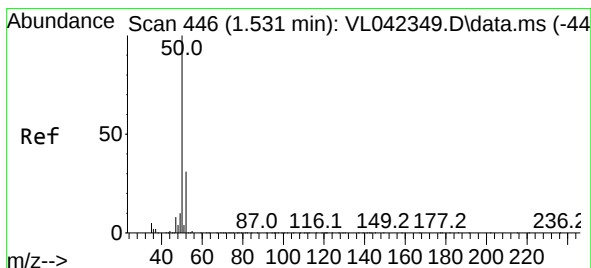
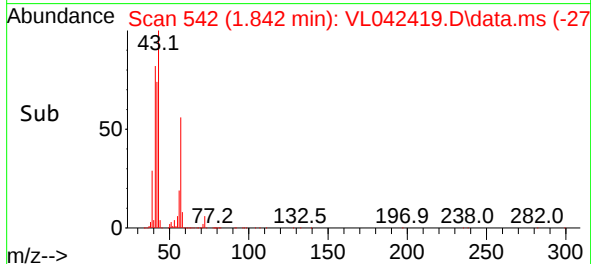
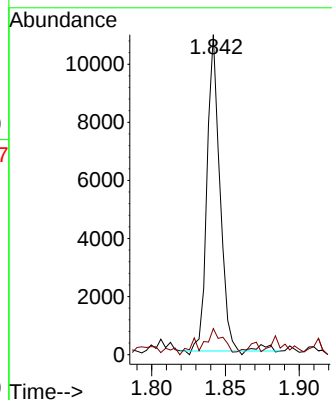
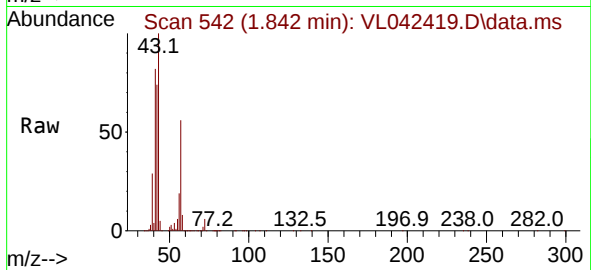




#3
Chlorodifluoromethane
Concen: 0.278 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.366 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

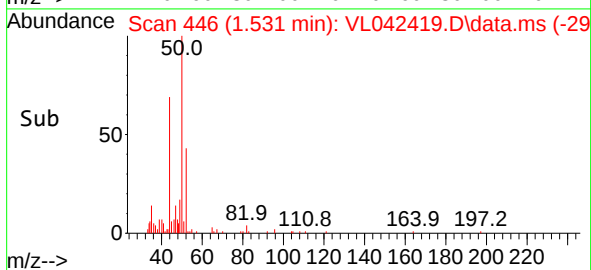
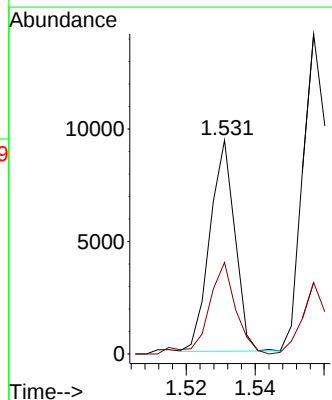
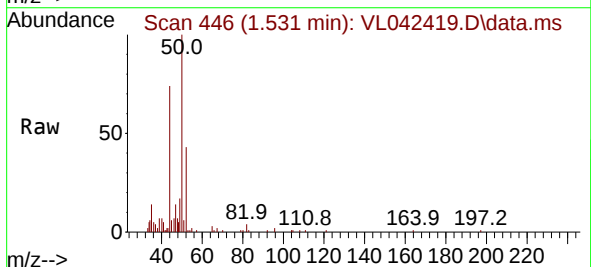
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

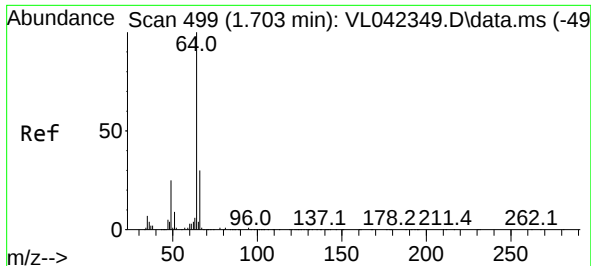
Tgt Ion: 51 Resp: 6601
Ion Ratio Lower Upper
51 100
67 21.3 16.2 24.4



#4
Chloromethane
Concen: 0.478 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 50 Resp: 4722
Ion Ratio Lower Upper
50 100
52 42.6 24.7 37.1#

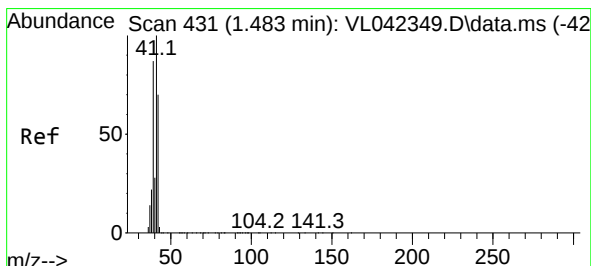
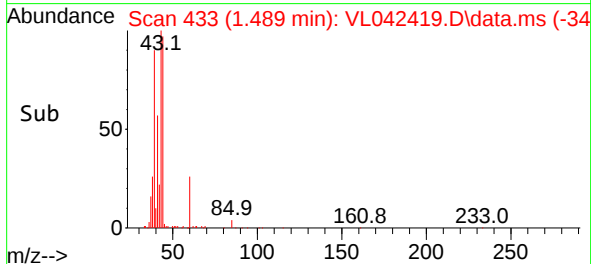
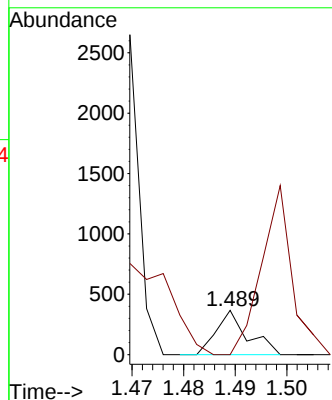
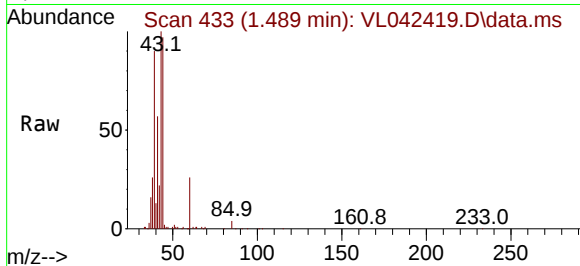




#7
Chloroethane
Concen: 0.040 ppbv
RT: 1.489 min Scan# 41
Delta R.T. -0.214 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

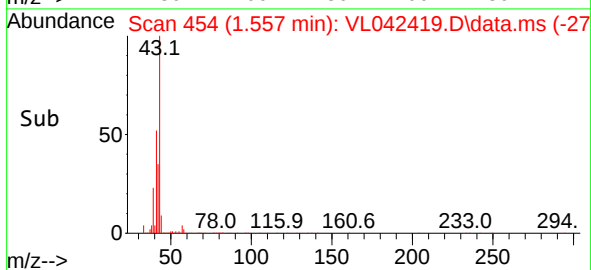
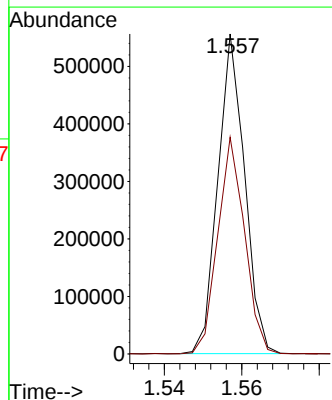
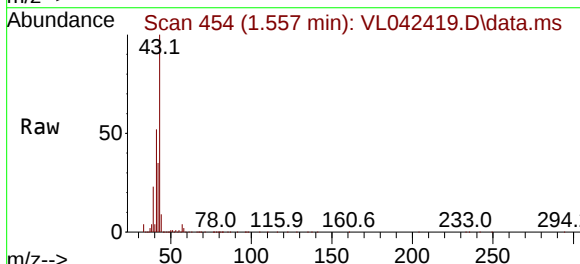
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

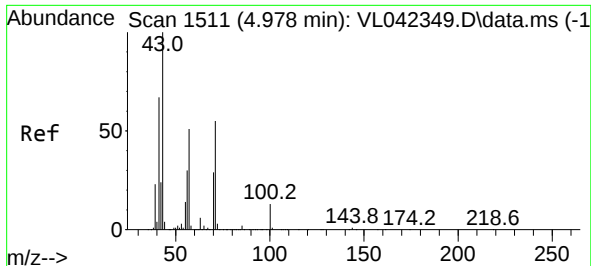
Tgt Ion: 64 Resp: 154
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#



#9
Propene
Concen: 24.586 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 41 Resp: 266169
Ion Ratio Lower Upper
41 100
42 68.3 56.2 84.4

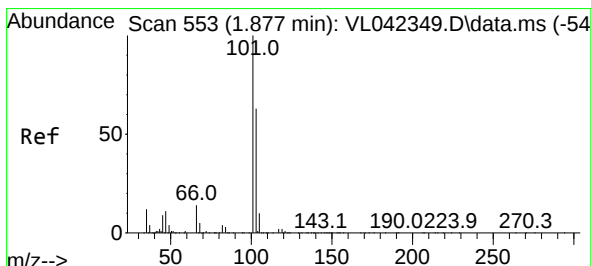
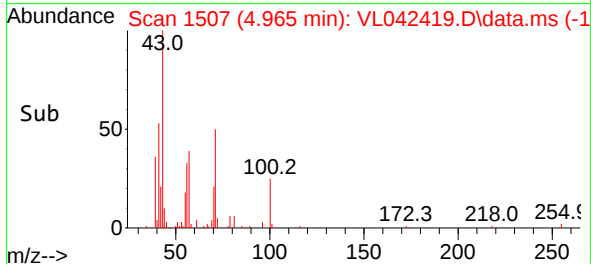
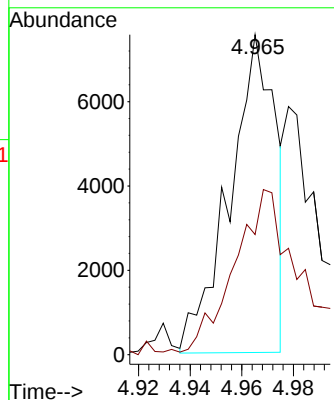
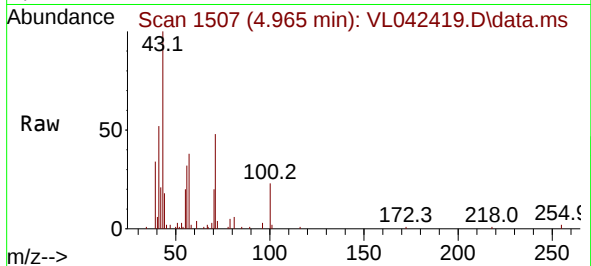




#10
Heptane
Concen: 0.306 ppbv
RT: 4.965 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

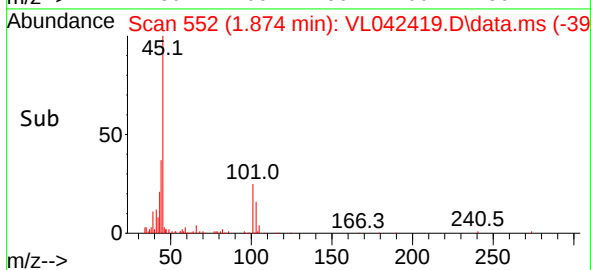
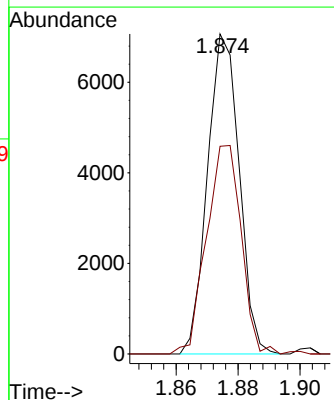
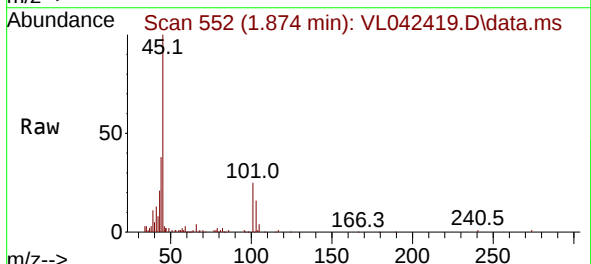
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

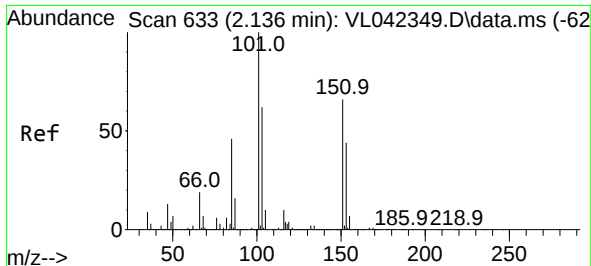
Tgt Ion: 43 Resp: 9317
Ion Ratio Lower Upper
43 100
57 75.1 39.9 59.9#



#11
Trichlorofluoromethane
Concen: 0.212 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:101 Resp: 5024
Ion Ratio Lower Upper
101 100
103 64.9 50.1 75.1

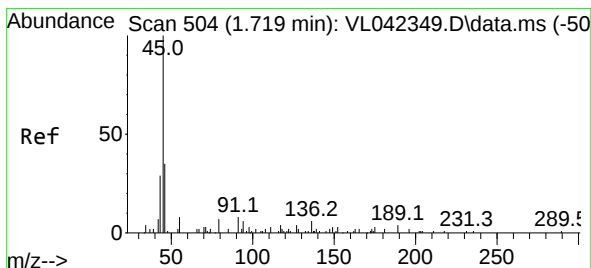
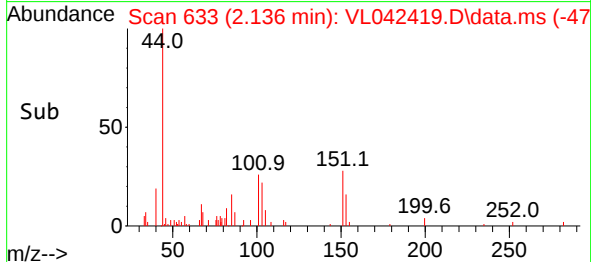
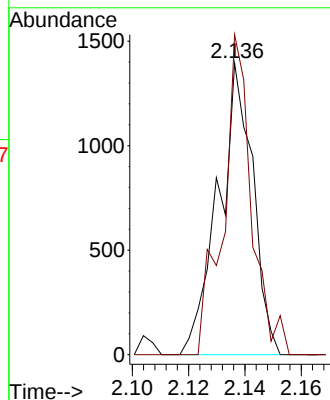
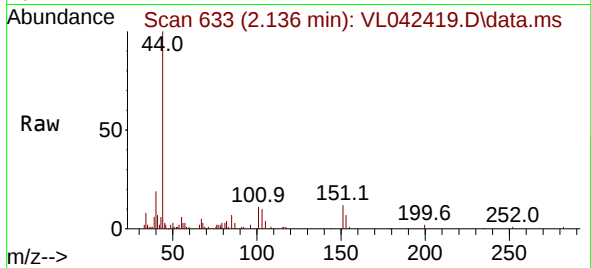




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 2.136 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

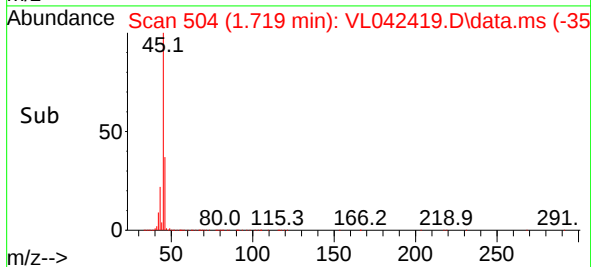
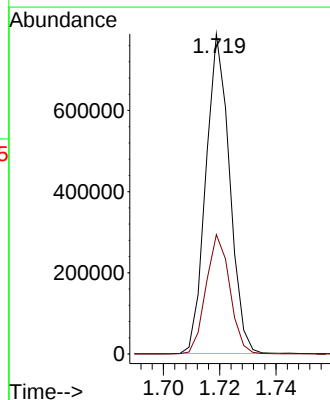
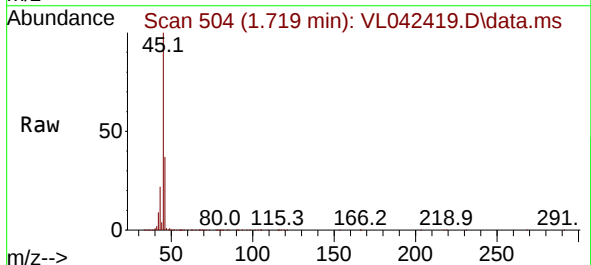
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

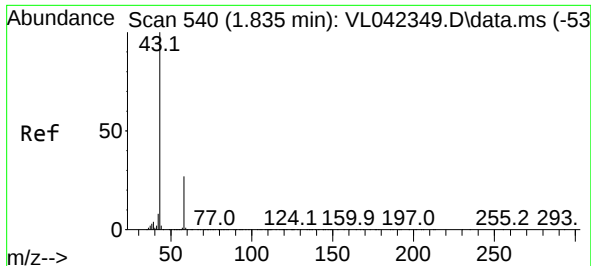
Tgt Ion:101 Resp: 1181
Ion Ratio Lower Upper
101 100
151 90.9 57.0 85.6#



#13
Ethanol
Concen: 267.501 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 45 Resp: 460303
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7

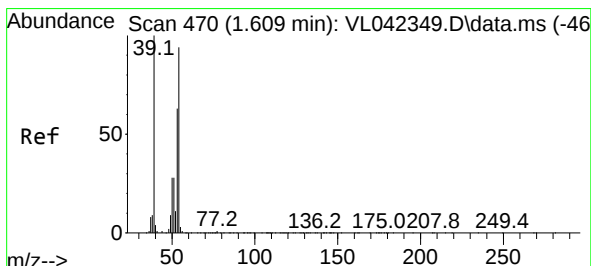
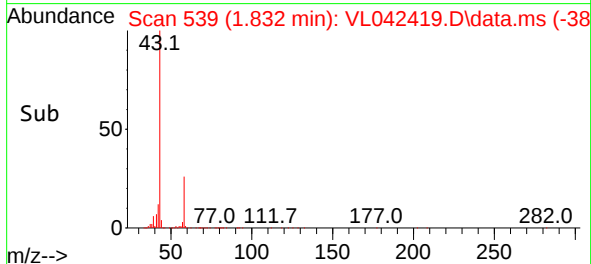
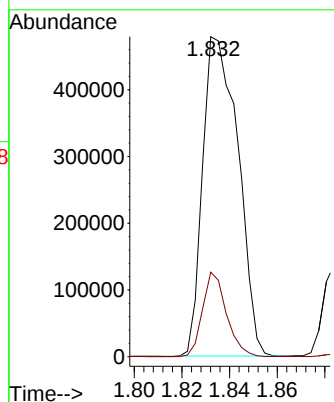
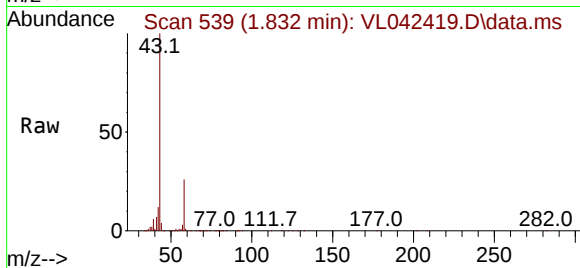




#15
Acetone
Concen: 21.327 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

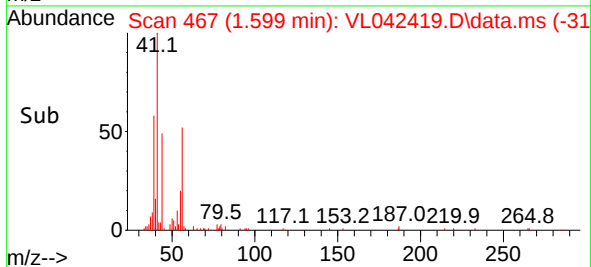
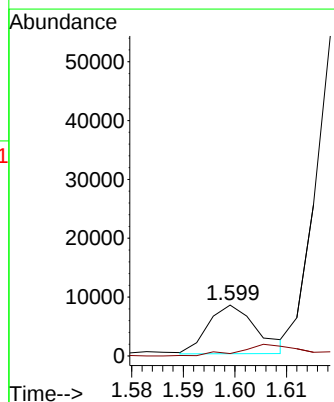
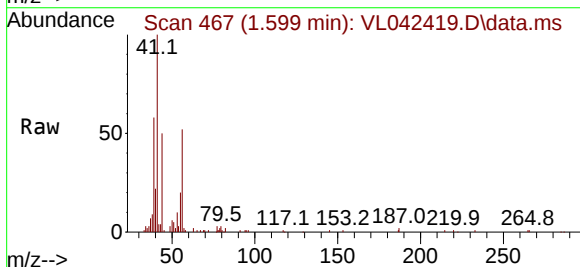
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

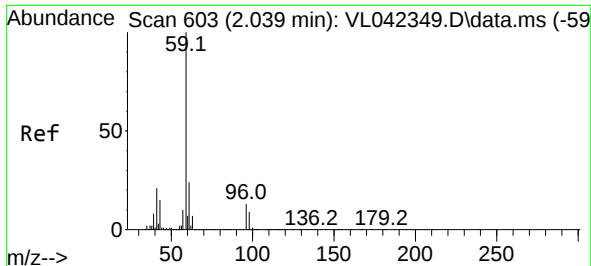
Tgt Ion: 43 Resp: 493322
Ion Ratio Lower Upper
43 100
58 18.0 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.491 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 39 Resp: 5437
Ion Ratio Lower Upper
39 100
54 37.1 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 3.079 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.000 min

Lab File: VL042419.D

Acq: 28 Apr 2025 10:59

Instrument :

MSVOA_L

ClientSampleId :

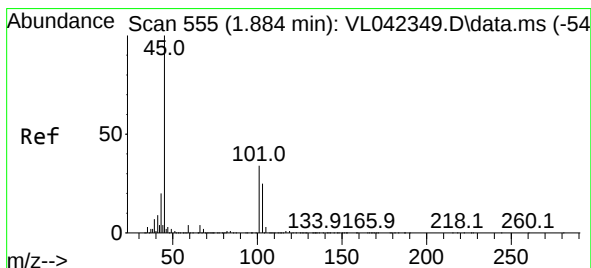
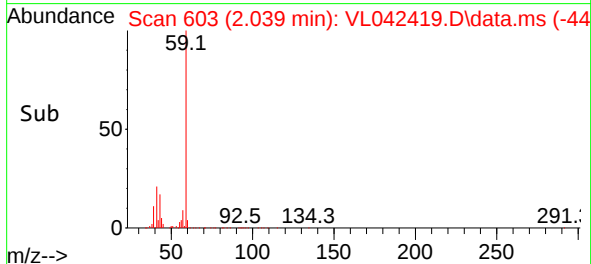
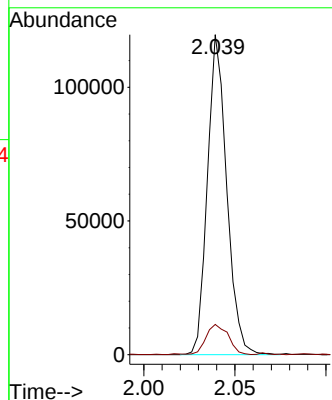
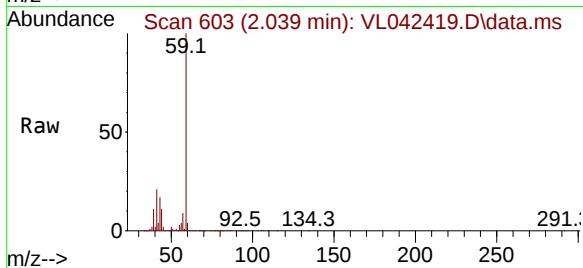
IA-B2-3-3242025

Tgt Ion: 59 Resp: 88272

Ion Ratio Lower Upper

59 100

57 11.2 8.7 13.1



#19

Isopropyl Alcohol

Concen: 32.231 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL042419.D

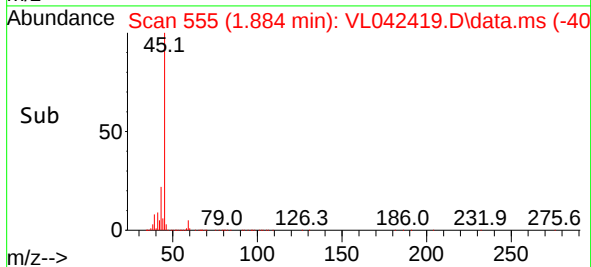
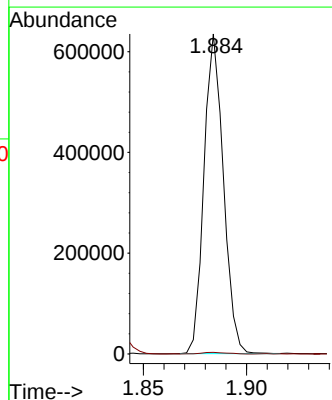
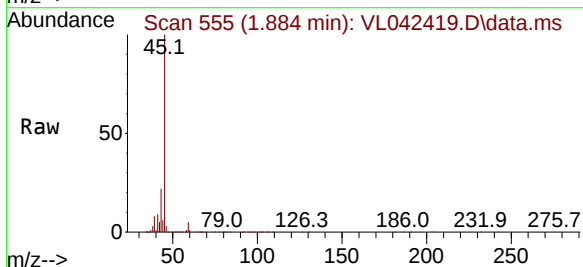
Acq: 28 Apr 2025 10:59

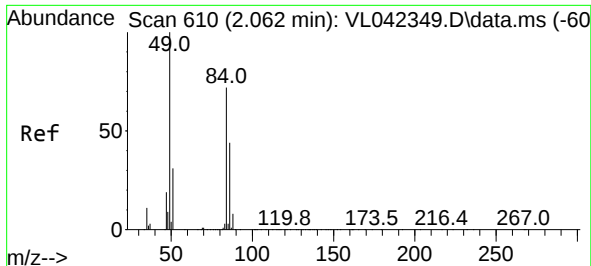
Tgt Ion: 45 Resp: 414153

Ion Ratio Lower Upper

45 100

58 21.5 34.5 51.7#

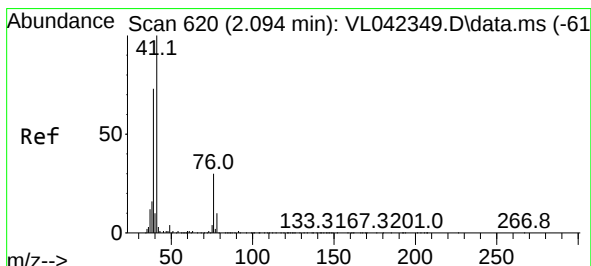
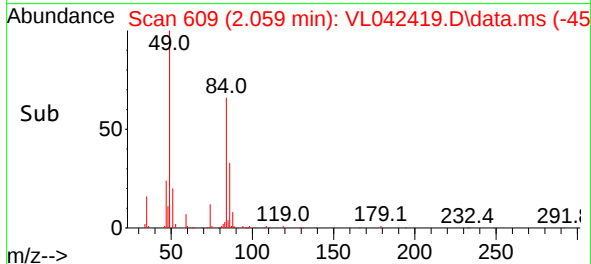
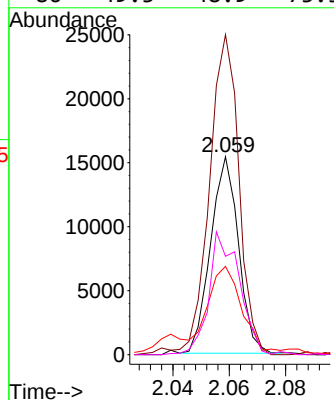
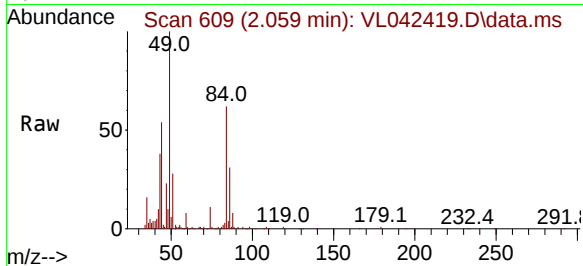




#20
Methylene Chloride
Concen: 1.162 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

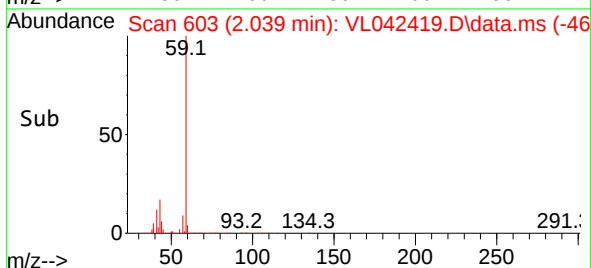
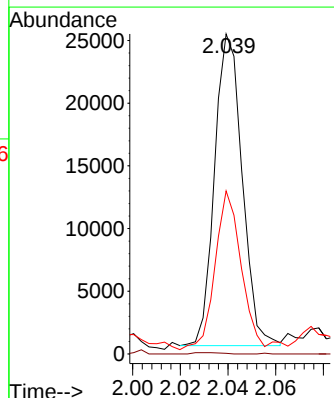
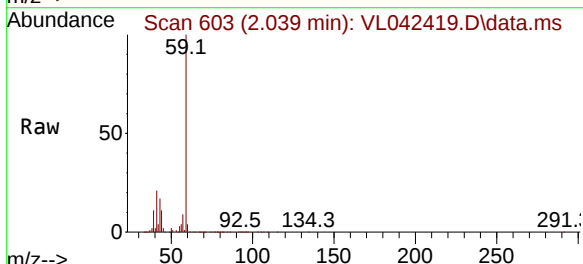
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

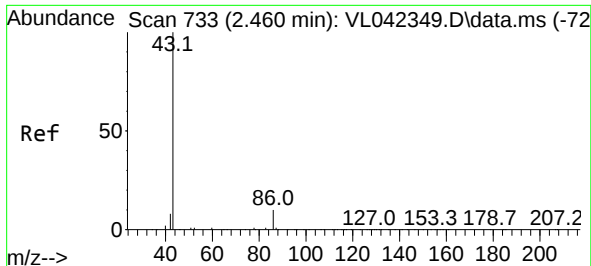
Tgt Ion:	84	Resp:	10525
Ion	Ratio	Lower	Upper
84	100		
49	162.9	111.6	167.4
51	42.8	35.1	52.7
86	49.3	48.9	73.3



#21
Allyl Chloride
Concen: 1.250 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.055 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:	41	Resp:	19969
Ion	Ratio	Lower	Upper
41	100		
76	6.8	24.8	37.2#
39	57.5	60.6	90.8#

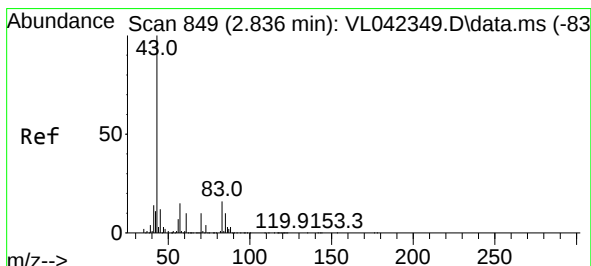
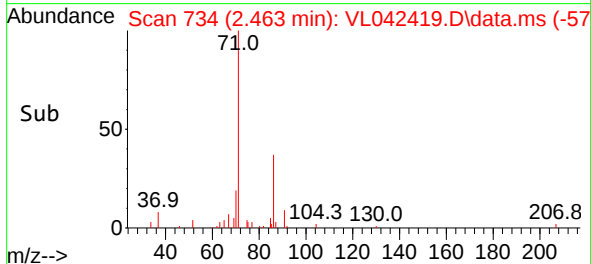
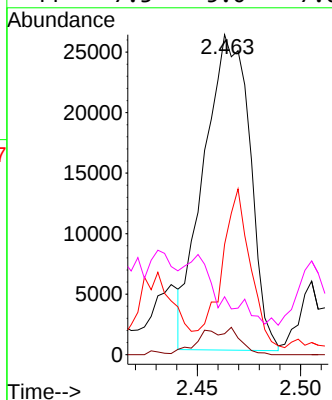
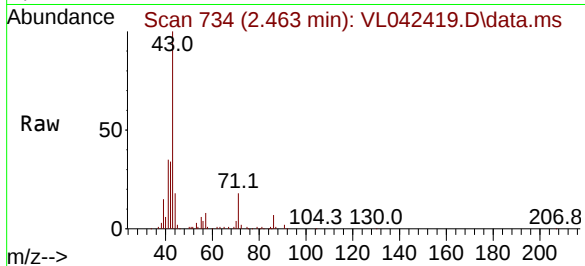




#23
Vinyl Acetate
Concen: 4.323 ppbv
RT: 2.463 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

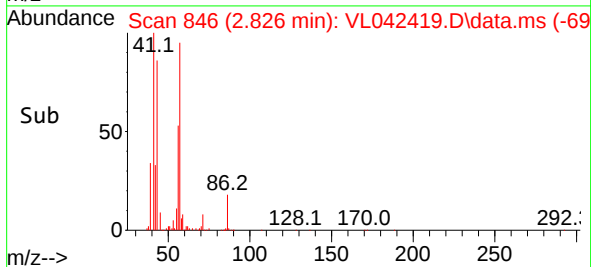
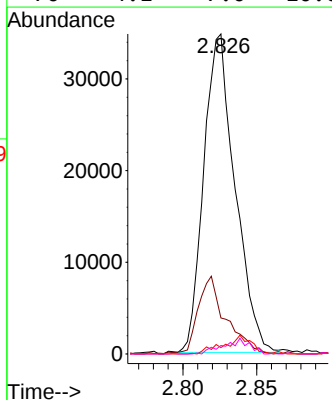
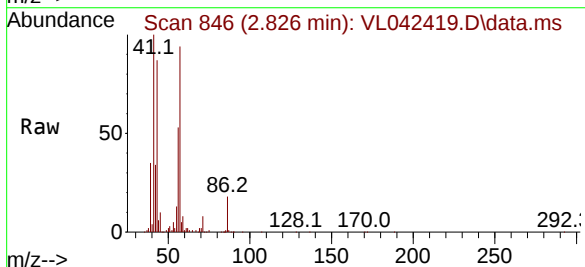
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

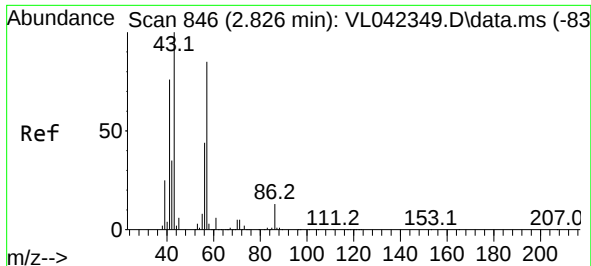
Tgt Ion: 43	Resp: 40479
Ion Ratio	Lower Upper
43	100
86	6.8 6.5 9.7
42	32.6 7.8 11.8#
44	7.3 5.0 7.6



#25
Ethyl Acetate
Concen: 0.898 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 43	Resp: 51192
Ion Ratio	Lower Upper
43	100
45	22.1 8.3 12.5#
61	5.2 7.3 10.9#
70	4.1 7.0 10.6#

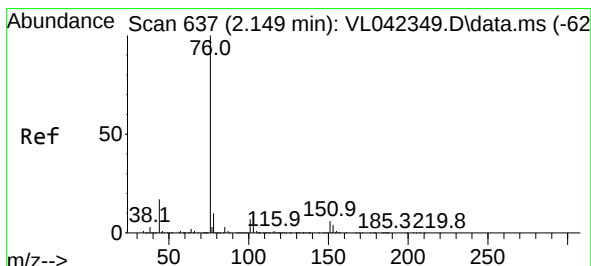
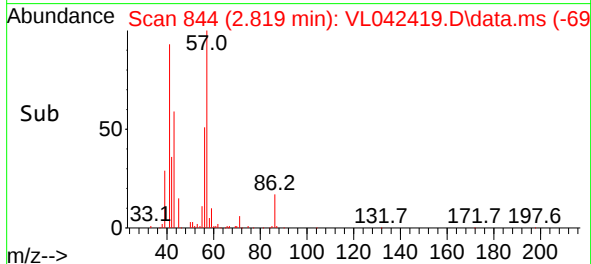
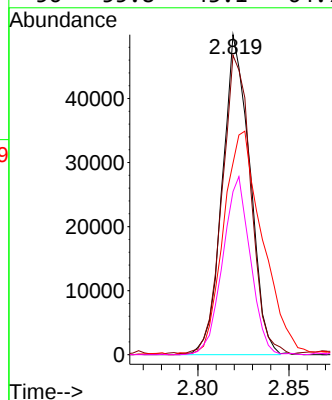
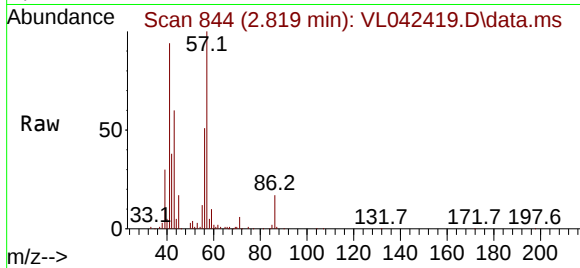




#26
Hexane
Concen: 2.273 ppbv
RT: 2.819 min Scan# 846
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

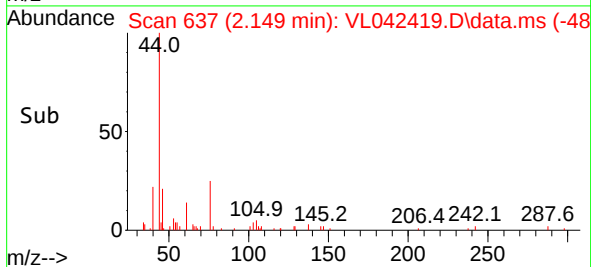
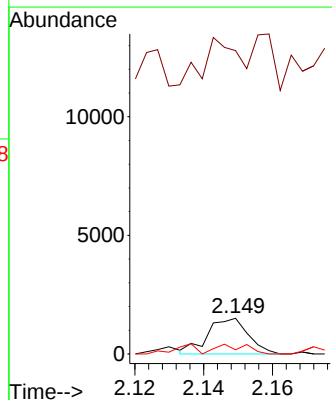
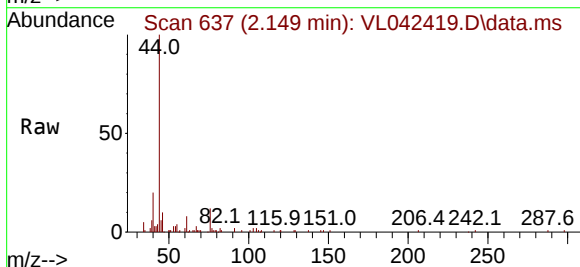
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

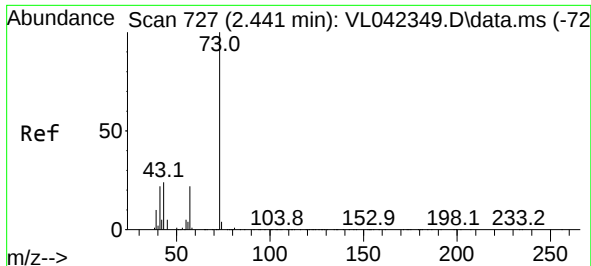
Tgt Ion: 57 Resp: 52451
Ion Ratio Lower Upper
57 100
41 97.9 77.9 116.9
43 99.2 208.4 312.6#
56 55.8 43.1 64.7



#27
Carbon Disulfide
Concen: 0.050 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 76 Resp: 1231
Ion Ratio Lower Upper
76 100
44 2114.8 15.5 23.3#
78 0.0 9.3 13.9#

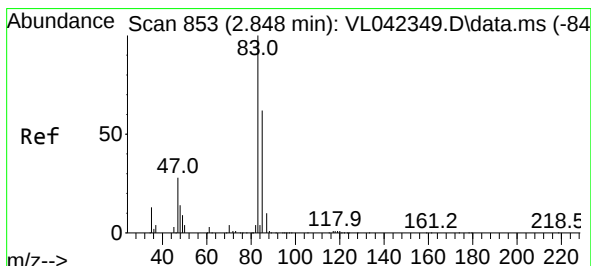
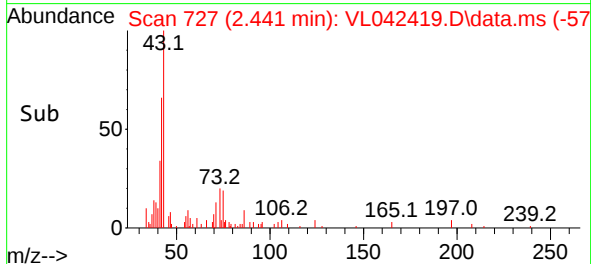
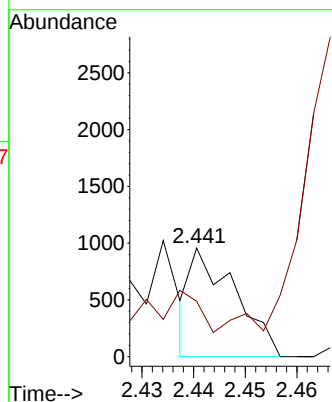
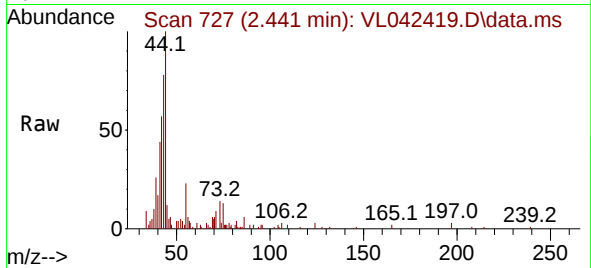




#28
Methyl tert-Butyl Ether
Concen: 0.038 ppbv
RT: 2.441 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

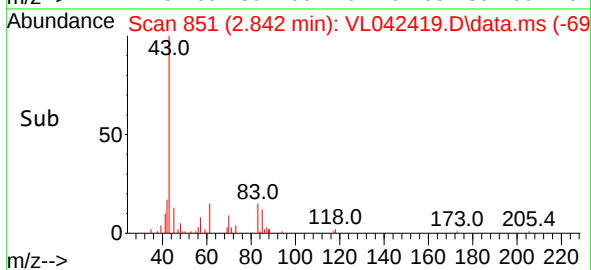
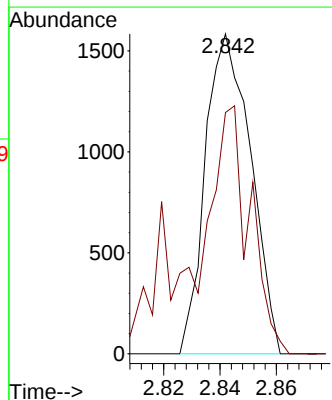
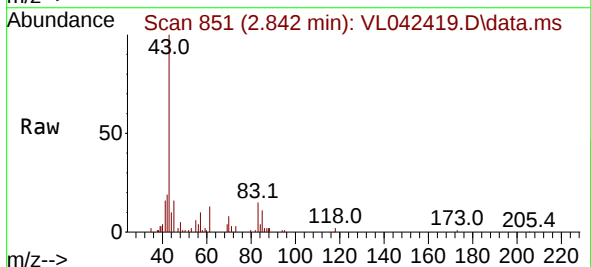
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

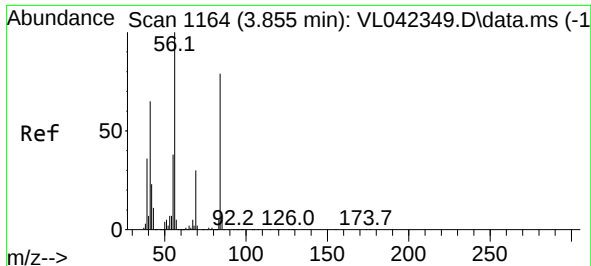
Tgt Ion: 73 Resp: 580
Ion Ratio Lower Upper
73 100
57 0.0 21.3 31.9#



#29
Chloroform
Concen: 0.054 ppbv
RT: 2.842 min Scan# 851
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 83 Resp: 1773
Ion Ratio Lower Upper
83 100
85 71.5 50.0 75.0

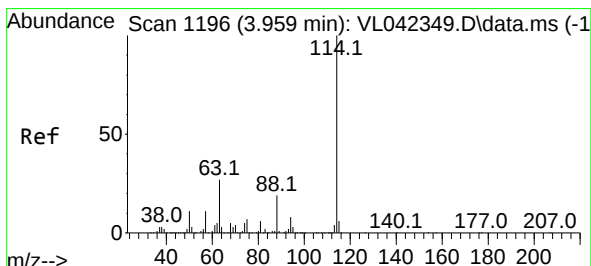
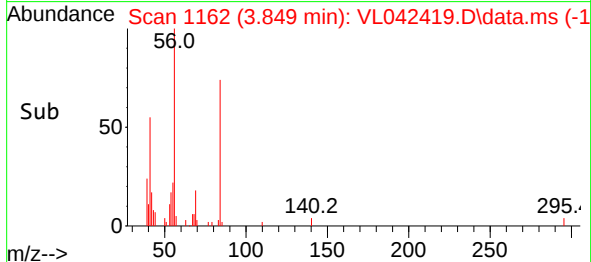
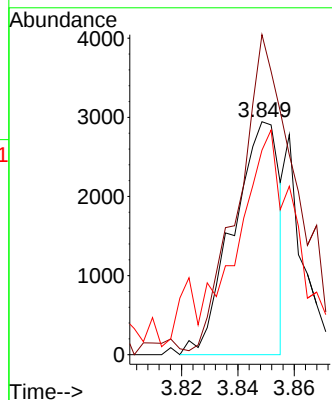
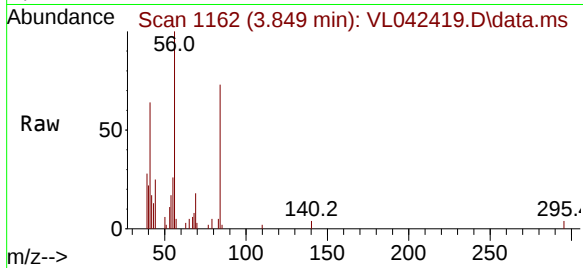




#30
Cyclohexane
Concen: 0.180 ppbv
RT: 3.849 min Scan# 1164
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

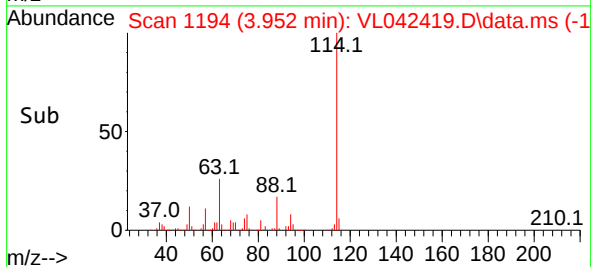
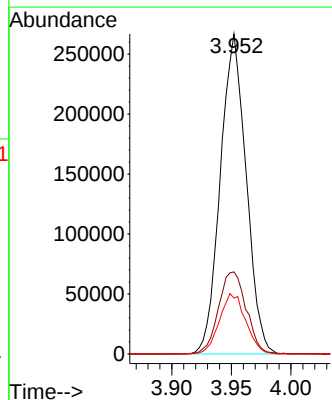
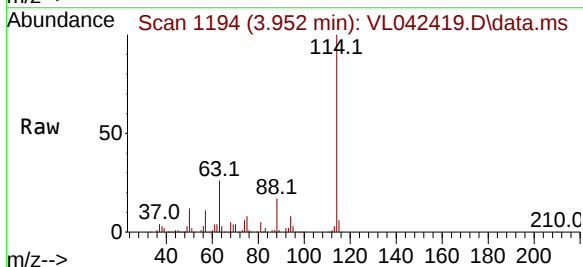
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

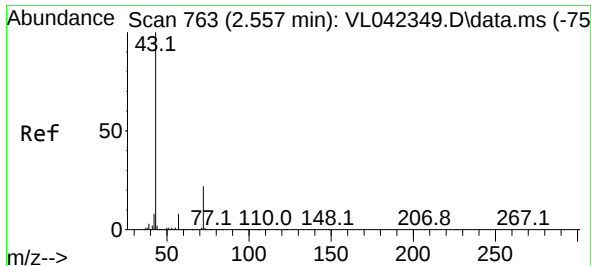
Tgt Ion: 84 Resp: 3366
Ion Ratio Lower Upper
84 100
56 183.2 101.0 151.4#
41 154.2 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 114 Resp: 401917
Ion Ratio Lower Upper
114 100
63 27.5 21.8 32.6
88 19.2 15.5 23.3

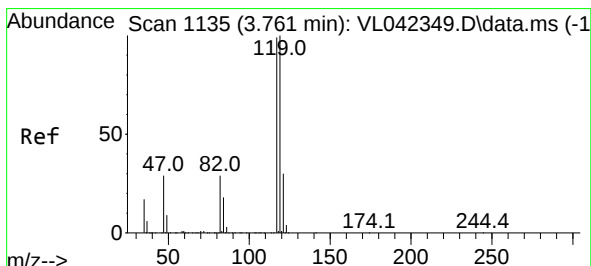
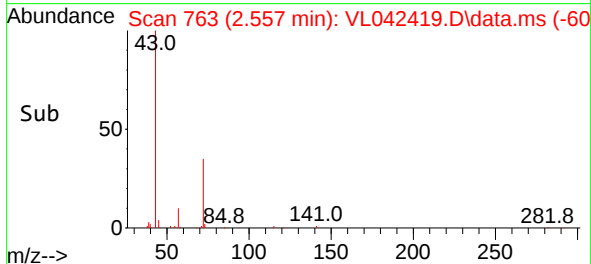
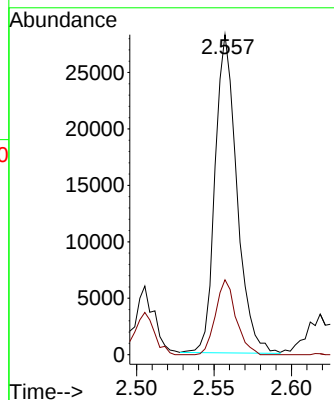
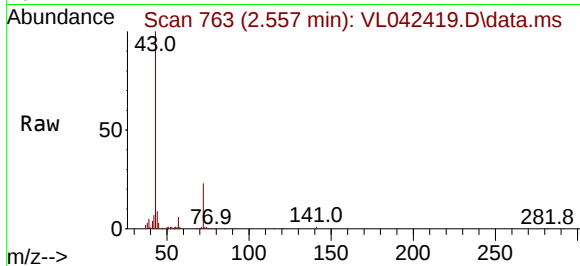




#34
2-Butanone
Concen: 0.869 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

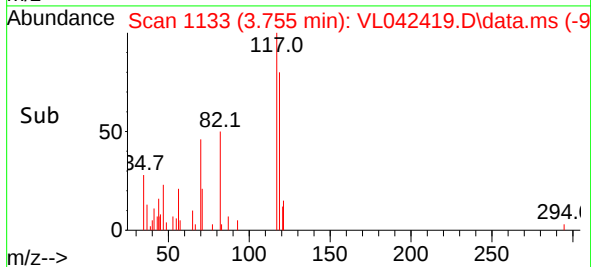
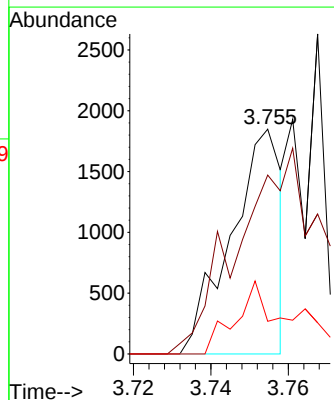
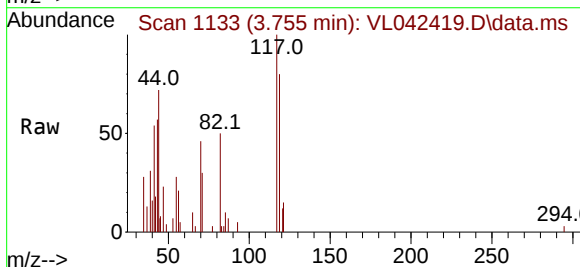
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

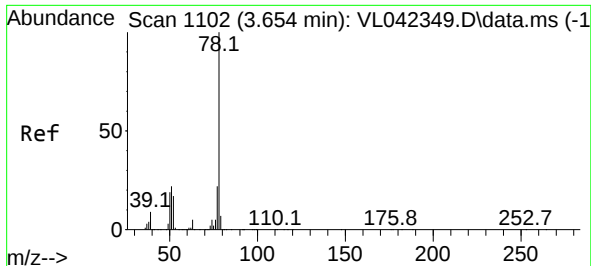
Tgt Ion: 43 Resp: 27638
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.046 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 117 Resp: 1663
Ion Ratio Lower Upper
117 100
119 75.0 80.5 120.7#
121 14.5 24.2 36.2#

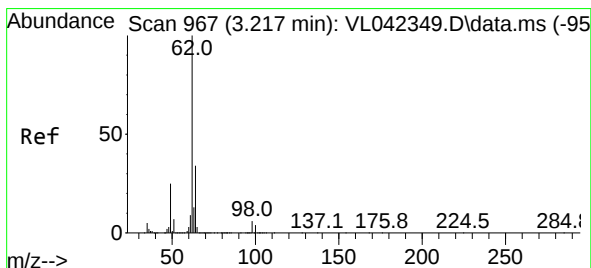
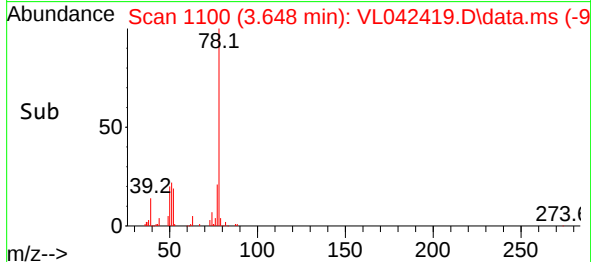
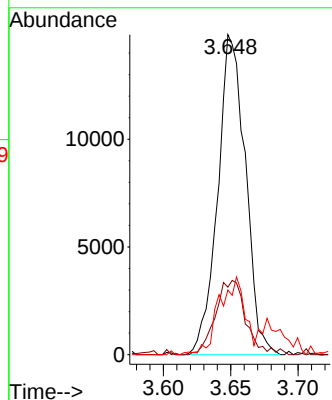
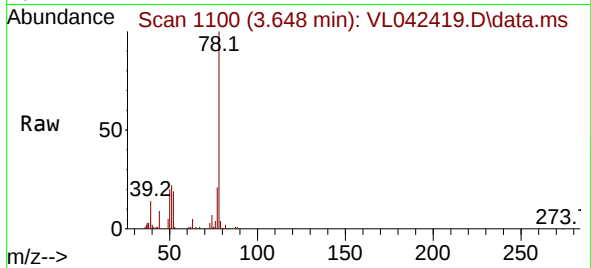




#36
Benzene
Concen: 0.490 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

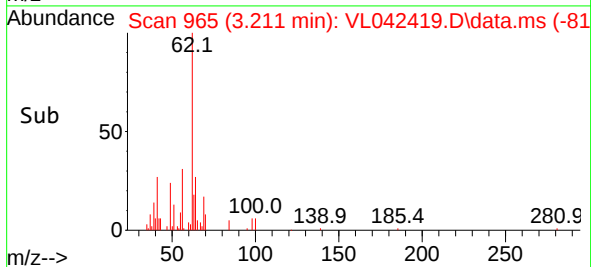
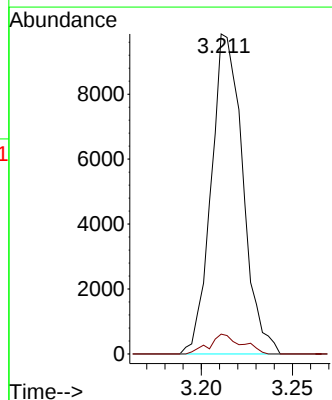
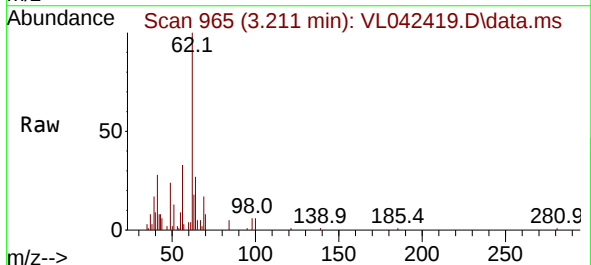
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

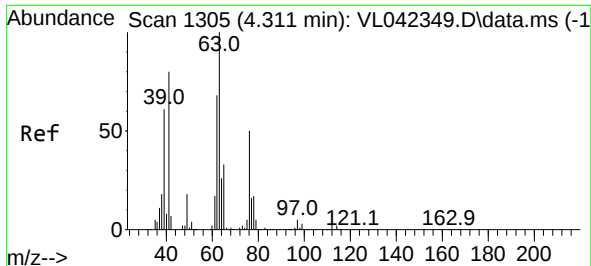
Tgt Ion: 78 Resp: 21233
Ion Ratio Lower Upper
78 100
77 21.1 17.4 26.0
50 20.2 15.5 23.3



#37
1,2-Dichloroethane
Concen: 0.456 ppbv
RT: 3.211 min Scan# 965
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 62 Resp: 11865
Ion Ratio Lower Upper
62 100
98 6.2 5.1 7.7





#39

1,2-Dichloropropane

Concen: 6.837 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.359 min

Lab File: VL042419.D

Acq: 28 Apr 2025 10:59

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-3242025

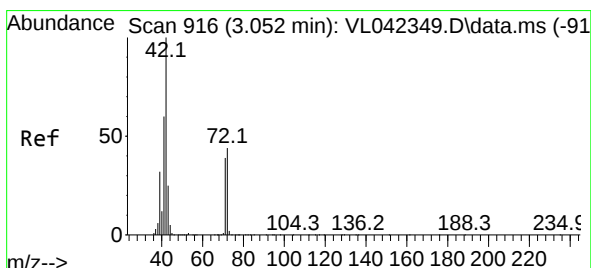
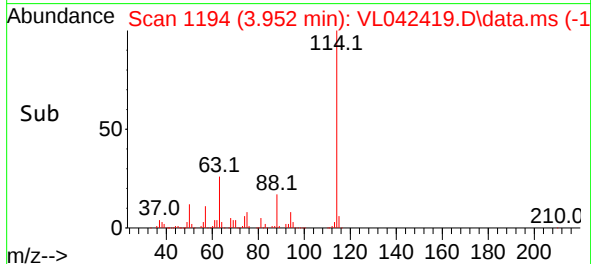
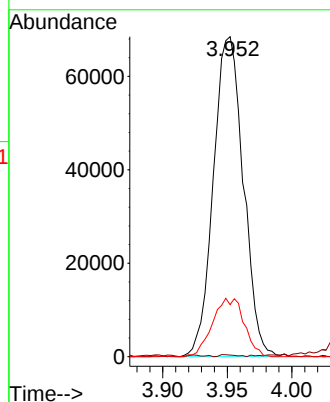
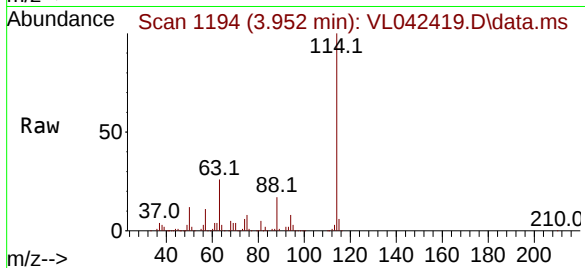
Tgt Ion: 63 Resp: 110449

Ion Ratio Lower Upper

63 100

41 0.3 64.2 96.2#

62 16.3 54.3 81.5#



#41

Tetrahydrofuran

Concen: 0.050 ppbv

RT: 3.056 min Scan# 917

Delta R.T. 0.003 min

Lab File: VL042419.D

Acq: 28 Apr 2025 10:59

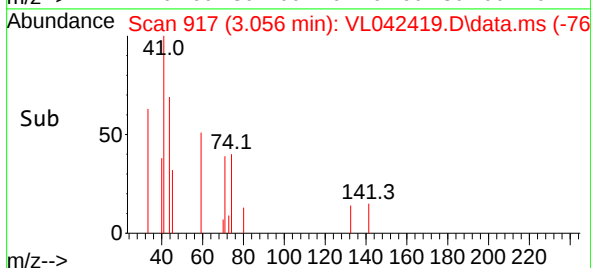
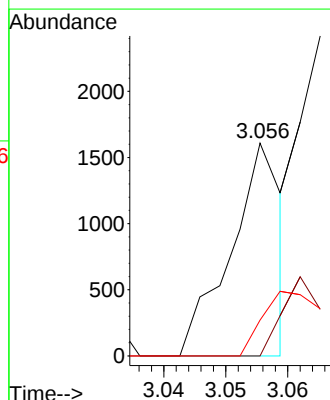
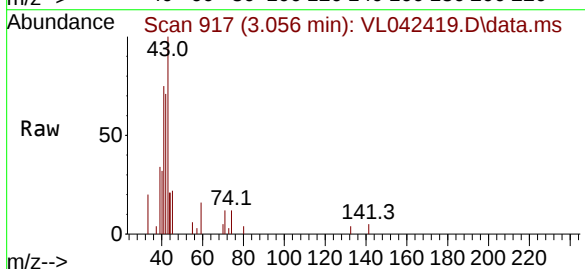
Tgt Ion: 42 Resp: 927

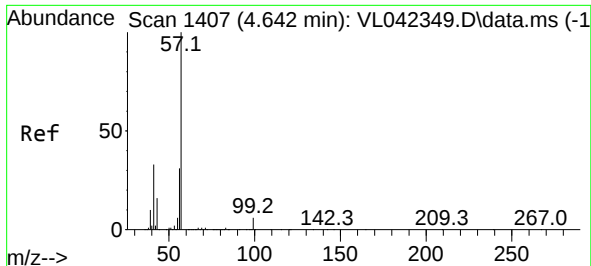
Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

71 0.0 31.4 47.2#

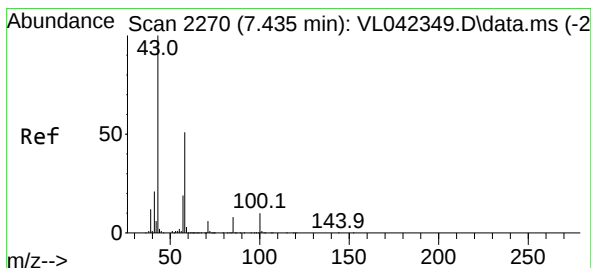
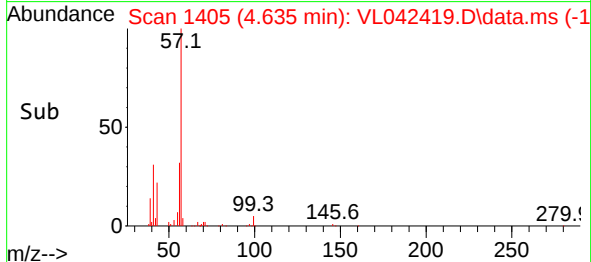
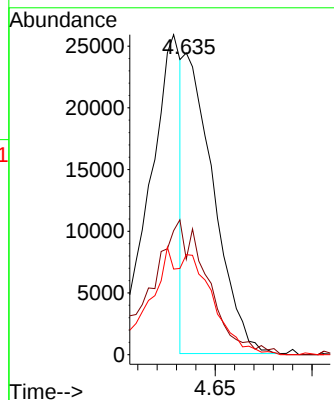
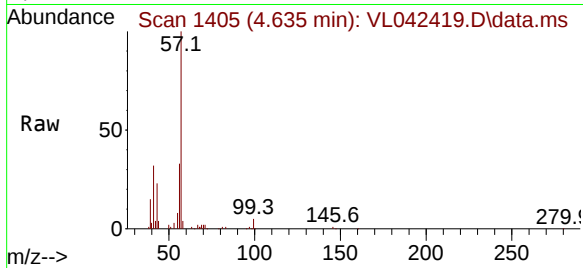




#44
2,2,4-Trimethylpentane
Concen: 0.349 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

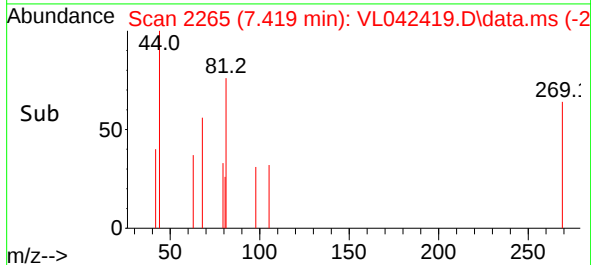
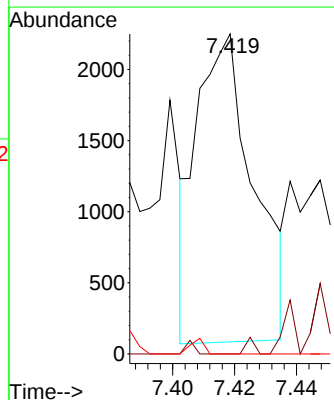
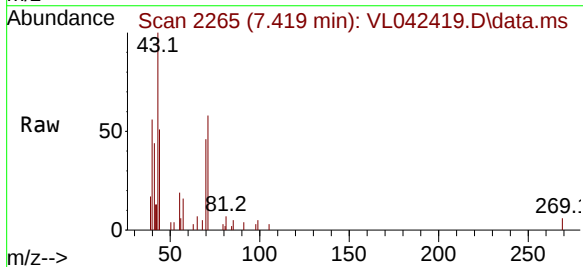
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

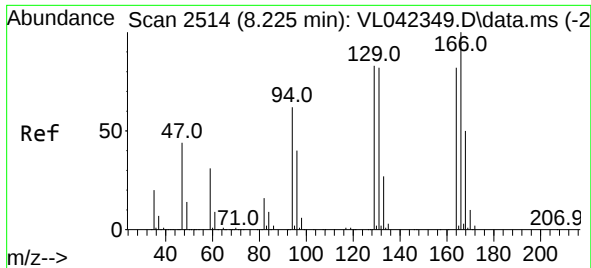
Tgt Ion: 57 Resp: 26094
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 0.0 25.7 38.5#



#51
2-Hexanone
Concen: 0.058 ppbv
RT: 7.419 min Scan# 2265
Delta R.T. -0.016 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 43 Resp: 2761
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.4#
98 0.0 0.1 0.1#

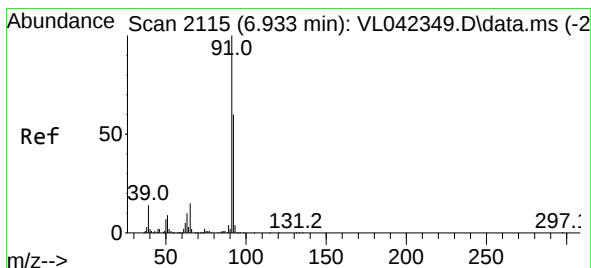
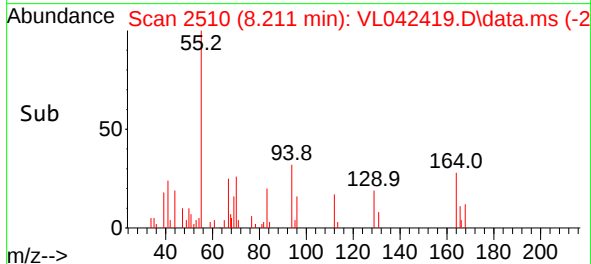
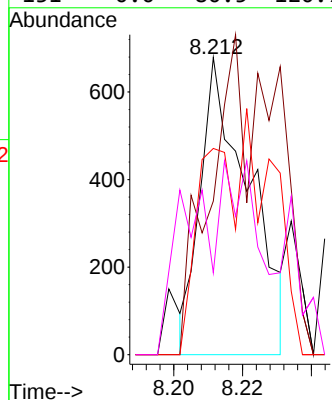
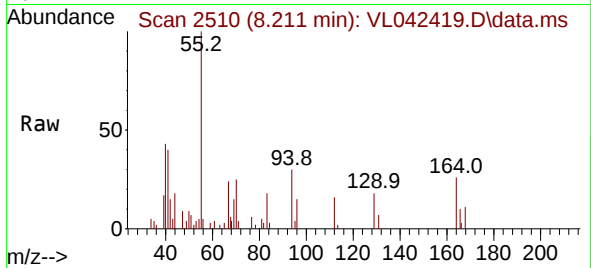




#52
Tetrachloroethene
Concen: 0.040 ppbv
RT: 8.211 min Scan# 2110
Delta R.T. -0.013 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

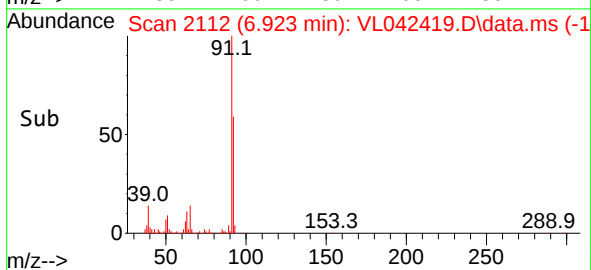
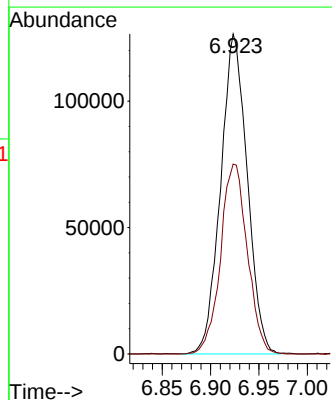
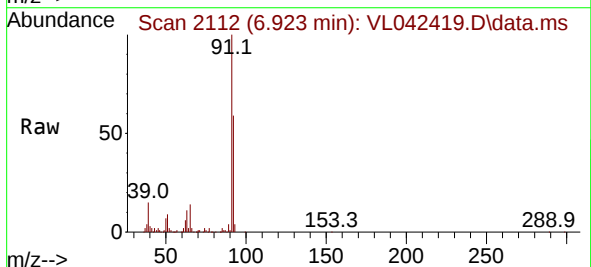
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

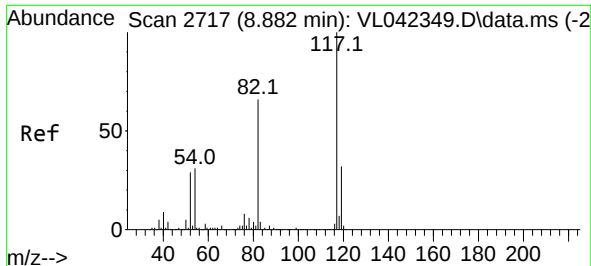
Tgt Ion:164 Resp: 664
Ion Ratio Lower Upper
164 100
166 60.0 98.2 147.2#
129 80.5 81.8 122.8#
131 0.0 80.5 120.7#



#53
Toluene
Concen: 4.644 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 241564
Ion Ratio Lower Upper
91 100
92 59.8 48.2 72.4

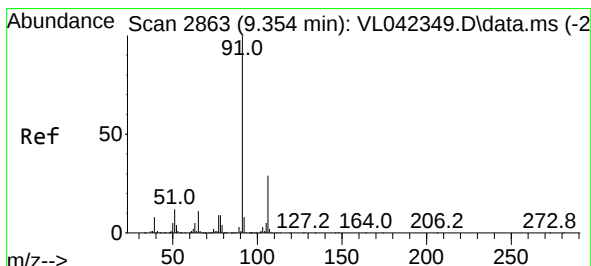
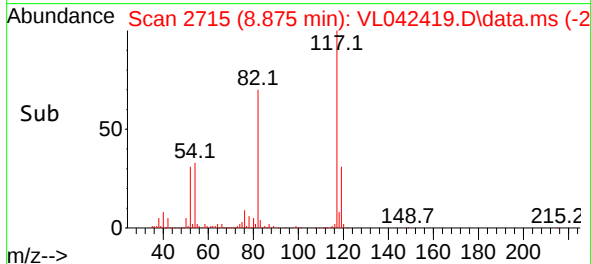
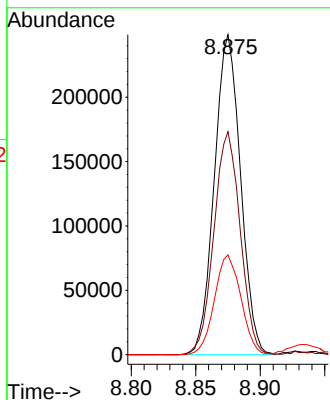
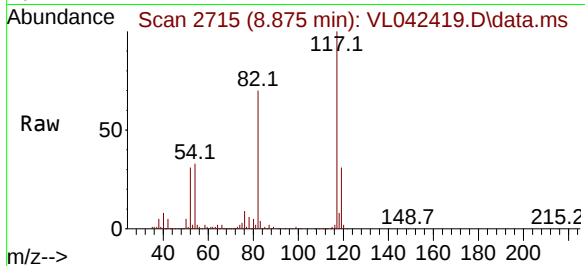




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

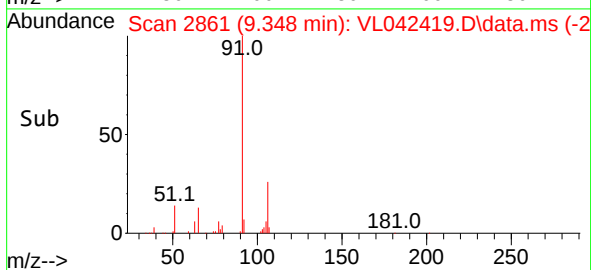
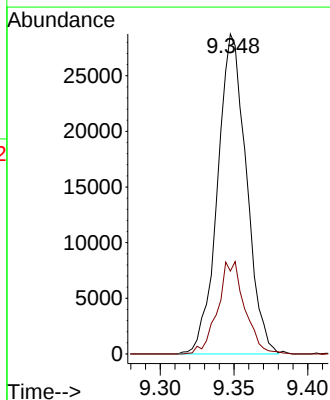
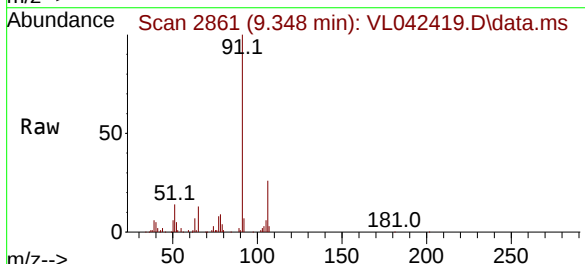
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

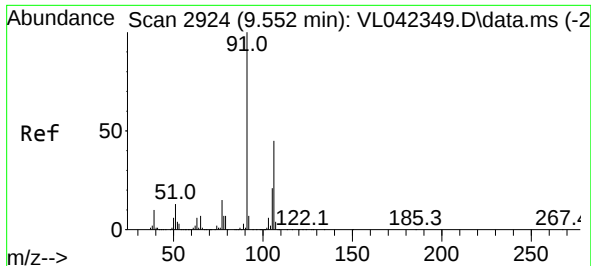
Tgt Ion:117 Resp: 351139
Ion Ratio Lower Upper
117 100
82 70.1 57.8 86.6
119 31.6 25.2 37.8



#58
Ethyl Benzene
Concen: 0.561 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 39060
Ion Ratio Lower Upper
91 100
106 25.9 23.0 34.4





#59

m/p-Xylene

Concen: 1.407 ppbv

RT: 9.526 min Scan# 2916

Delta R.T. -0.026 min

Lab File: VL042419.D

Acq: 28 Apr 2025 10:59

Instrument :

MSVOA_L

ClientSampleId :

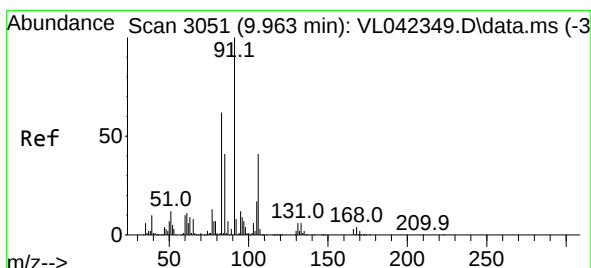
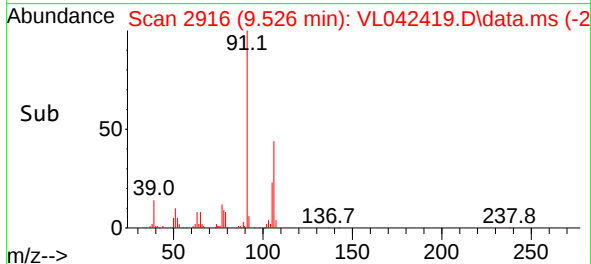
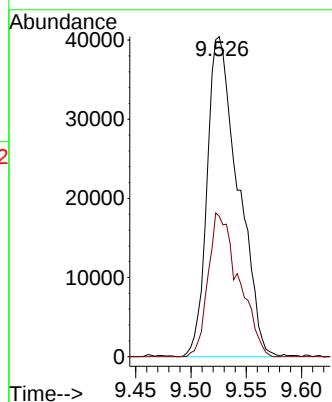
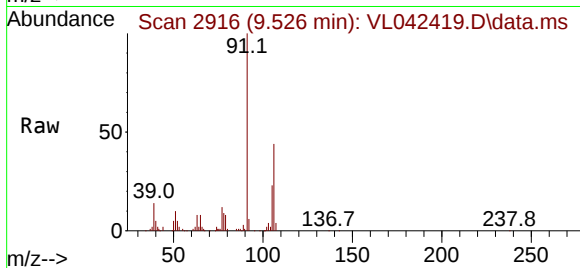
IA-B2-3-3242025

Tgt Ion: 91 Resp: 78855

Ion Ratio Lower Upper

91 100

106 44.3 35.4 53.2



#60

o-Xylene

Concen: 0.578 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042419.D

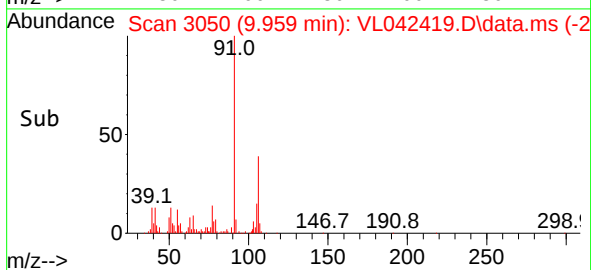
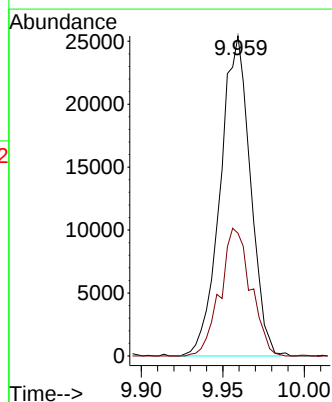
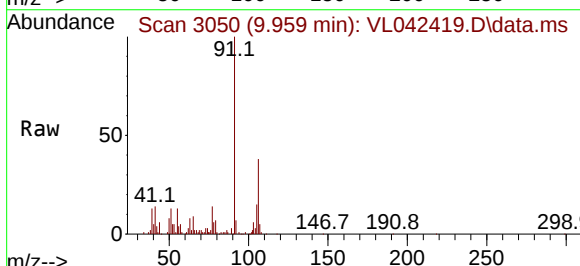
Acq: 28 Apr 2025 10:59

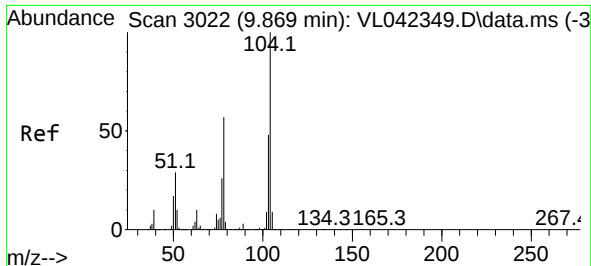
Tgt Ion: 91 Resp: 32637

Ion Ratio Lower Upper

91 100

106 40.6 21.1 63.4

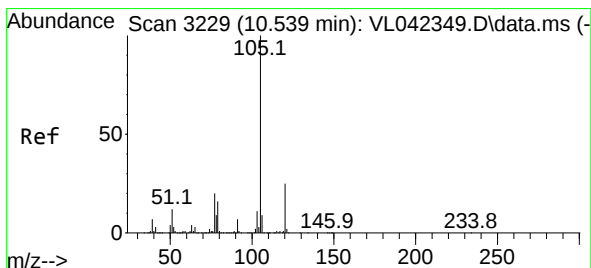
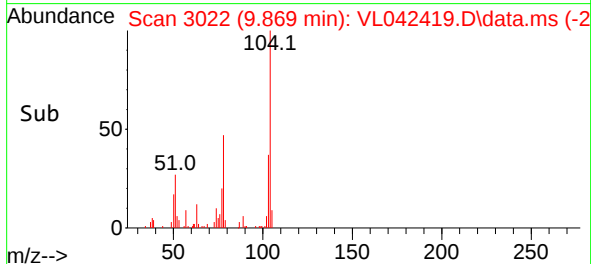
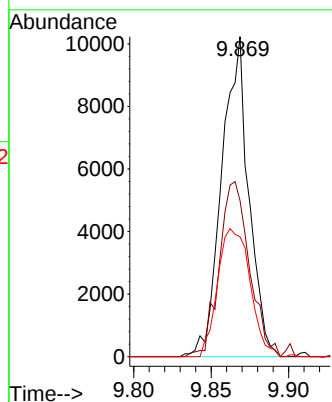
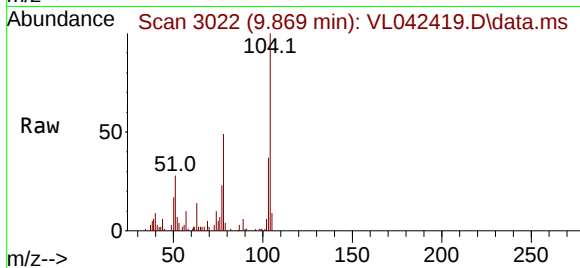




#61
Styrene
Concen: 0.460 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

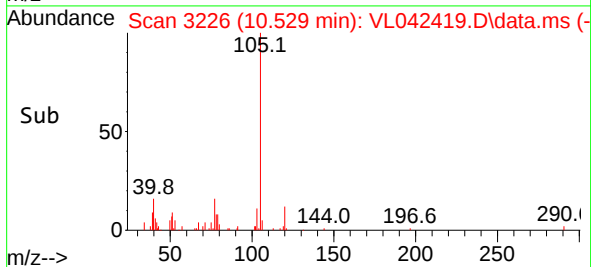
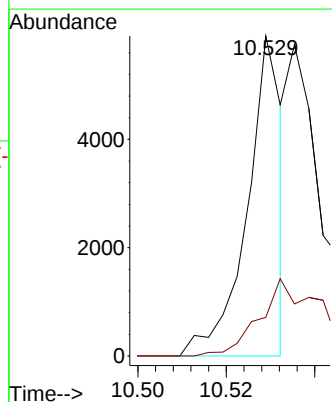
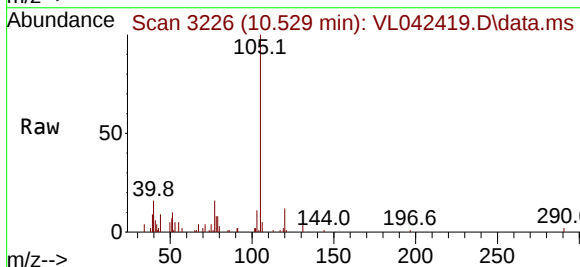
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

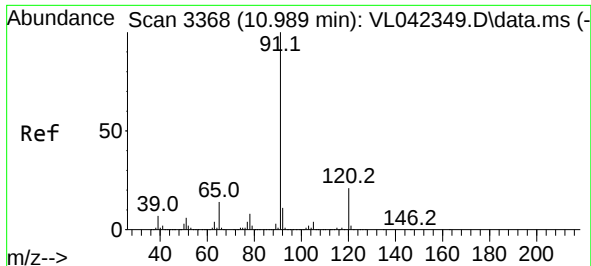
Tgt Ion:104 Resp: 12396
Ion Ratio Lower Upper
104 100
78 62.2 44.6 66.8
103 48.4 37.4 56.0



#62
Isopropylbenzene
Concen: 0.039 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:105 Resp: 3245
Ion Ratio Lower Upper
105 100
120 0.0 19.8 29.8#

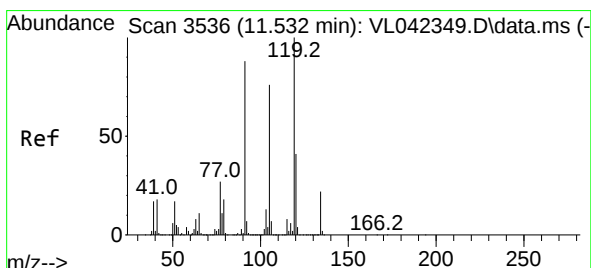
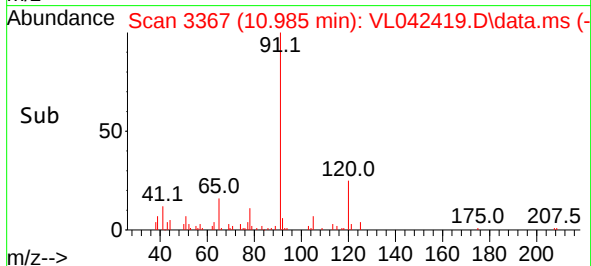
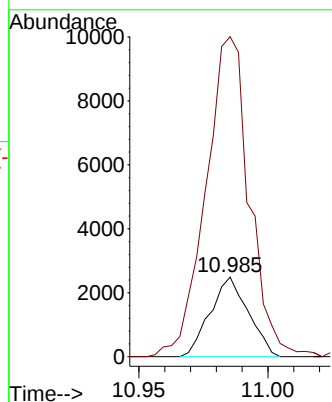
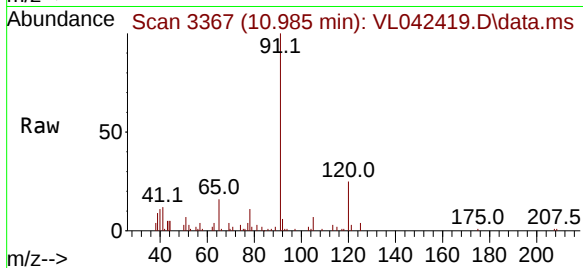




#64
n-propylbenzene
Concen: 0.123 ppbv
RT: 10.985 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

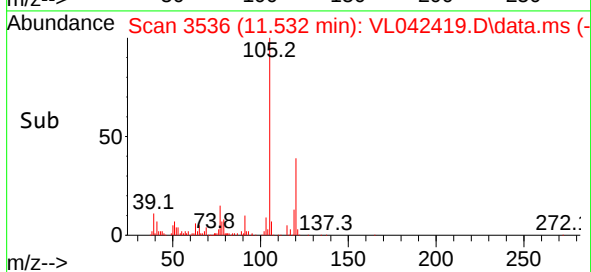
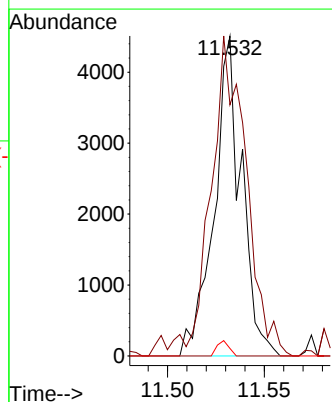
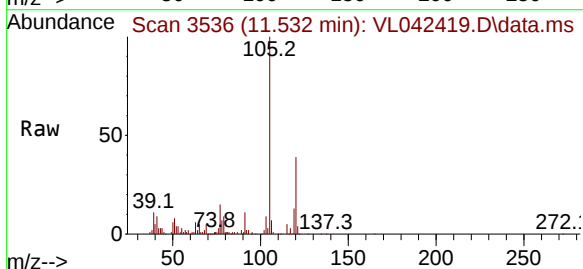
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

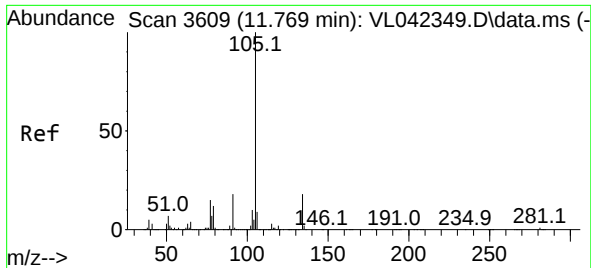
Tgt Ion:120 Resp: 2557
Ion Ratio Lower Upper
120 100
91 461.4 392.4 588.6



#65
tert-Butylbenzene
Concen: 0.058 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:119 Resp: 4429
Ion Ratio Lower Upper
119 100
91 132.1 74.6 111.8#
134 0.0 18.8 28.2#

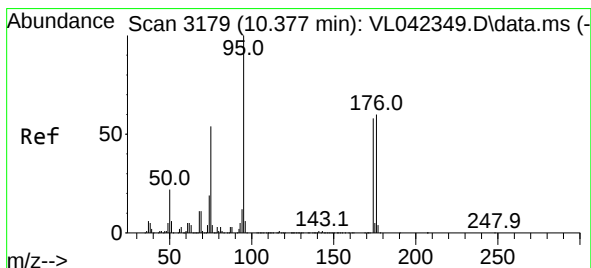
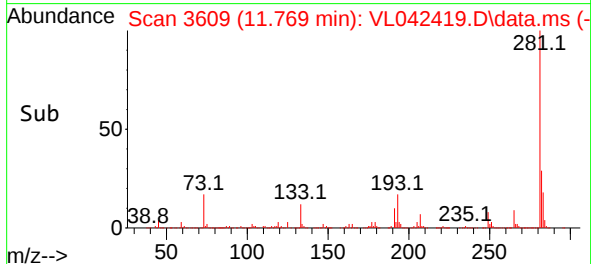
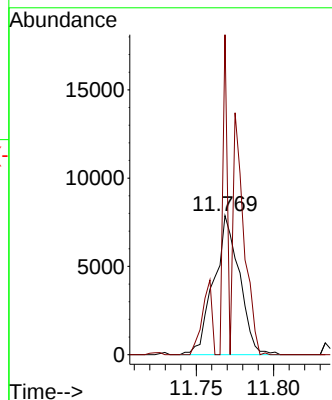
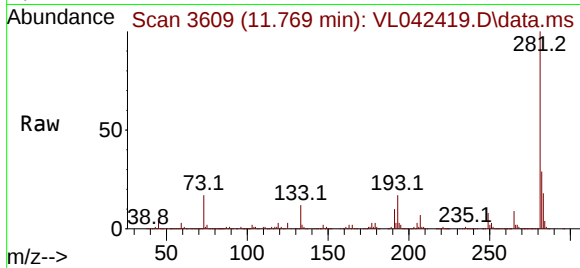




#67
 sec-Butylbenzene
 Concen: 0.086 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042419.D
 Acq: 28 Apr 2025 10:59

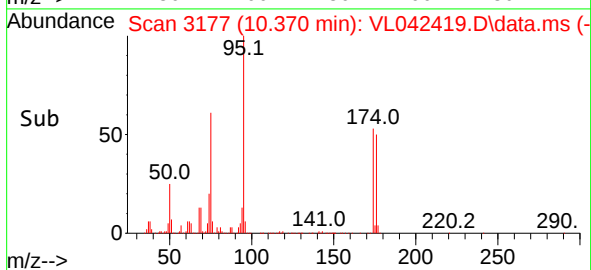
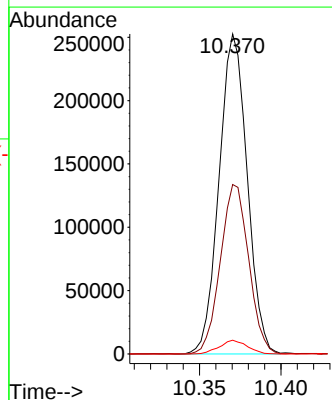
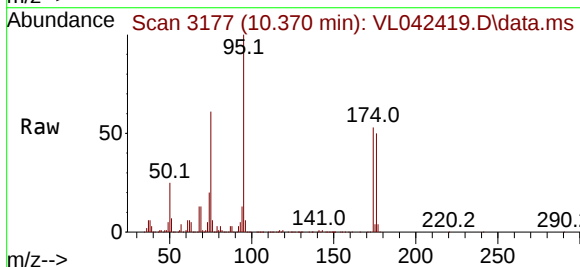
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-3242025

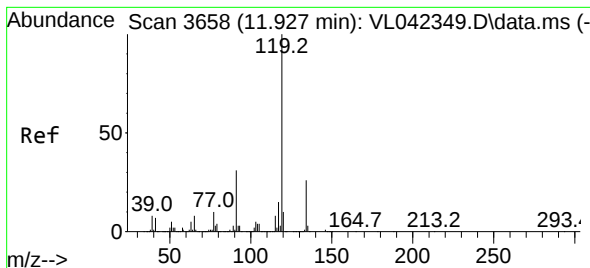
Tgt Ion:105 Resp: 9075
 Ion Ratio Lower Upper
 105 100
 134 134.4 14.6 21.8#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.481 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.007 min
 Lab File: VL042419.D
 Acq: 28 Apr 2025 10:59

Tgt Ion: 95 Resp: 302429
 Ion Ratio Lower Upper
 95 100
 174 53.5 48.5 72.7
 175 4.2 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.070 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. -0.003 min

Lab File: VL042419.D

Acq: 28 Apr 2025 10:59

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-3242025

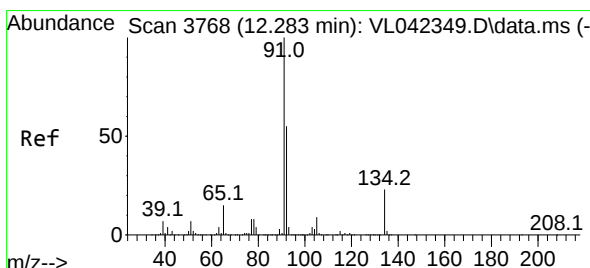
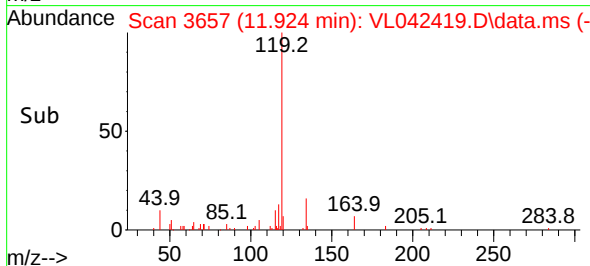
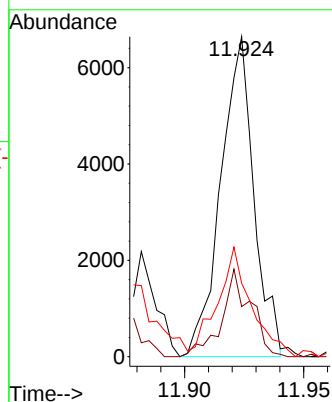
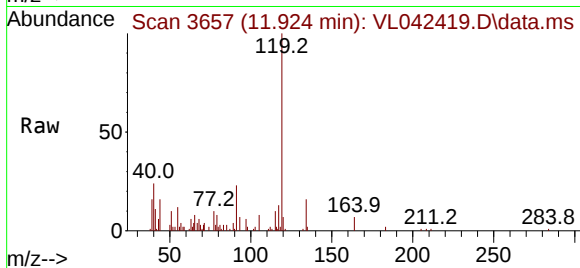
Tgt Ion:119 Resp: 6420

Ion Ratio Lower Upper

119 100

134 24.2 20.0 30.0

91 35.6 24.4 36.6



#70

n-Butylbenzene

Concen: 0.035 ppbv

RT: 12.277 min Scan# 3766

Delta R.T. -0.007 min

Lab File: VL042419.D

Acq: 28 Apr 2025 10:59

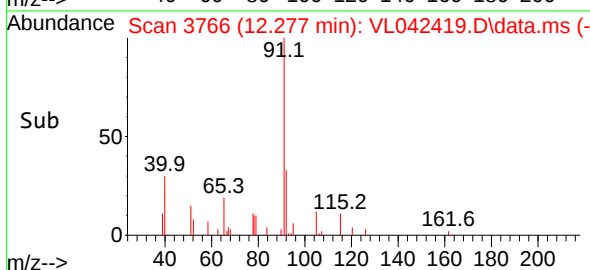
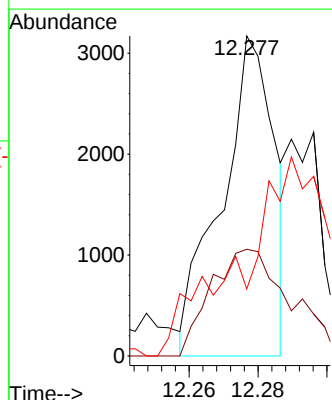
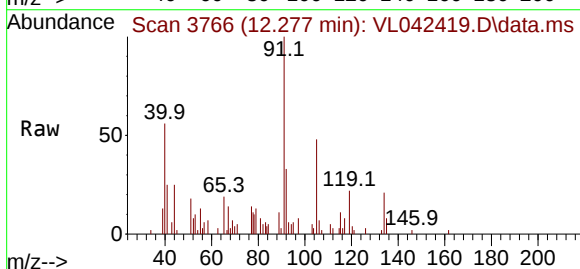
Tgt Ion: 91 Resp: 3378

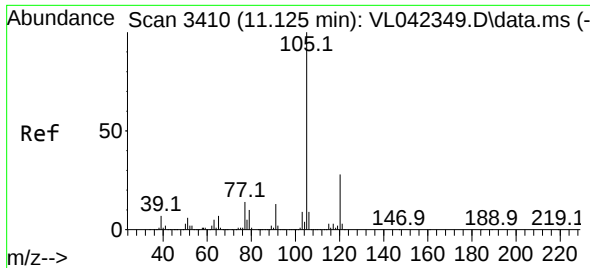
Ion Ratio Lower Upper

91 100

92 52.4 44.2 66.4

134 0.0 18.2 27.4#

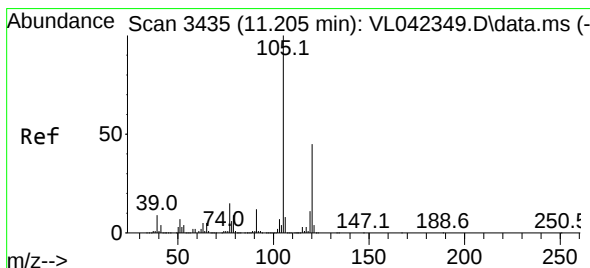
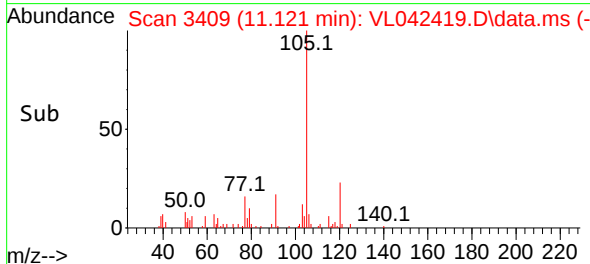
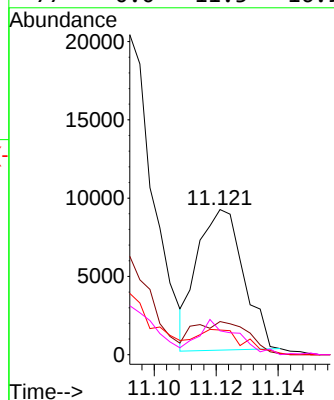
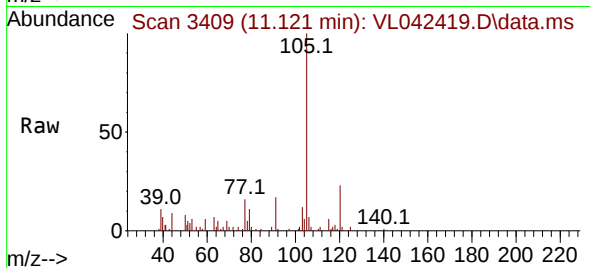




#72
4-Ethyltoluene
Concen: 0.135 ppbv
RT: 11.121 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

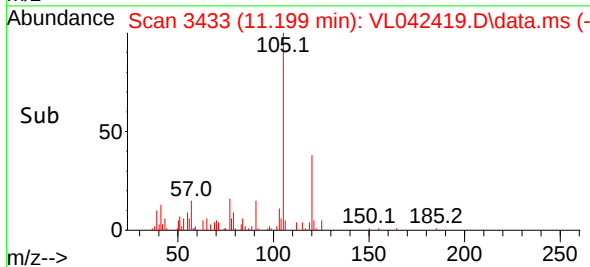
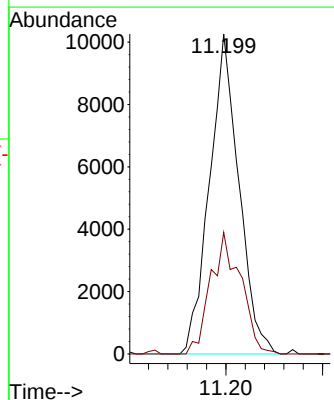
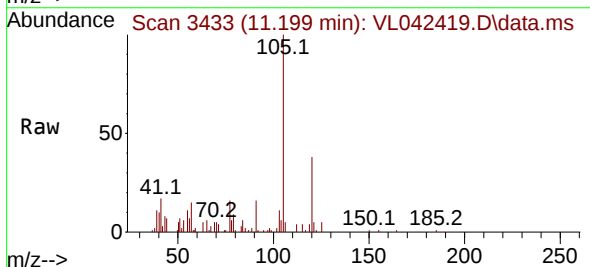
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-3242025

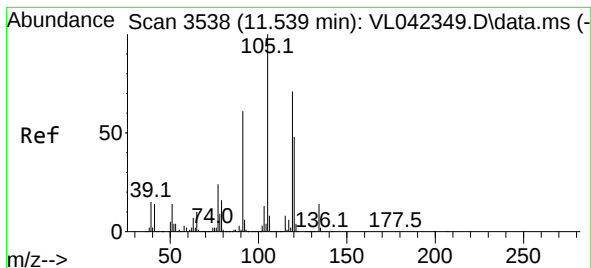
Tgt Ion:105	Resp:	9307
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.2 34.8#
91	0.0	10.4 15.6#
77	0.0	11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 0.177 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:105	Resp:	10799
Ion Ratio	Lower	Upper
105	100	
120	38.0	35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 0.475 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.007 min

Lab File: VL042419.D

Acq: 28 Apr 2025 10:59

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-3242025

Tgt Ion:105 Resp: 33801

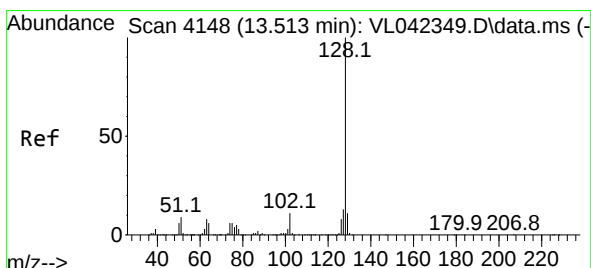
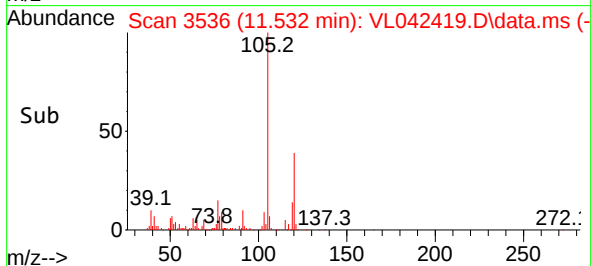
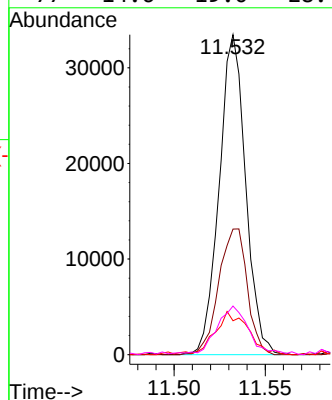
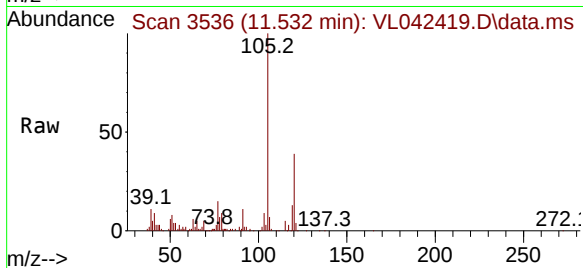
Ion Ratio Lower Upper

105 100

120 39.3 38.1 57.1

91 10.1 48.8 73.2#

77 14.6 19.0 28.4#



#79

Naphthalene

Concen: 0.113 ppbv

RT: 13.507 min Scan# 4146

Delta R.T. -0.007 min

Lab File: VL042419.D

Acq: 28 Apr 2025 10:59

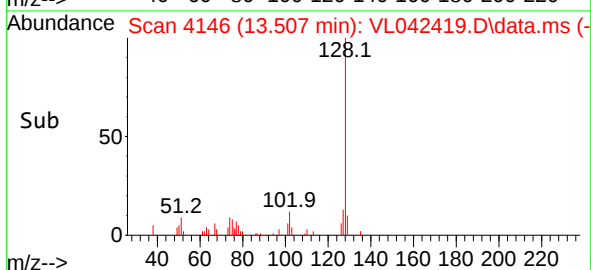
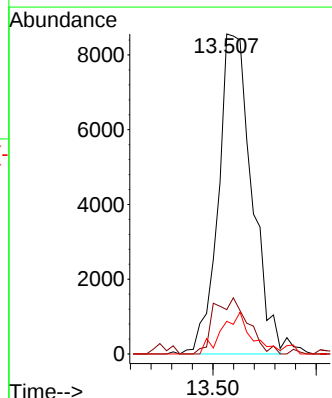
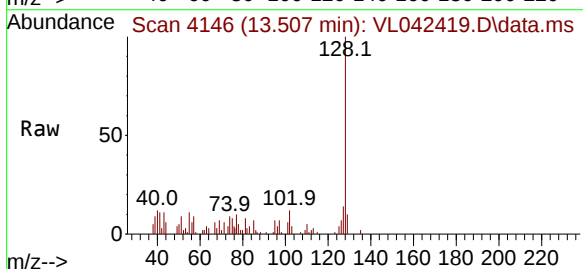
Tgt Ion:128 Resp: 9645

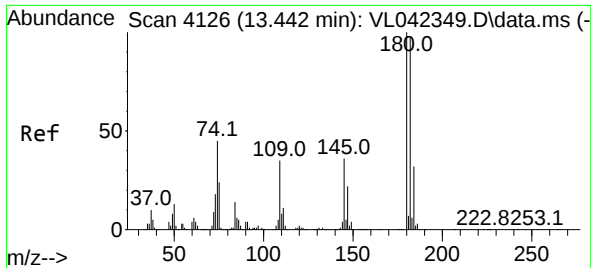
Ion Ratio Lower Upper

128 100

127 13.8 10.6 15.8

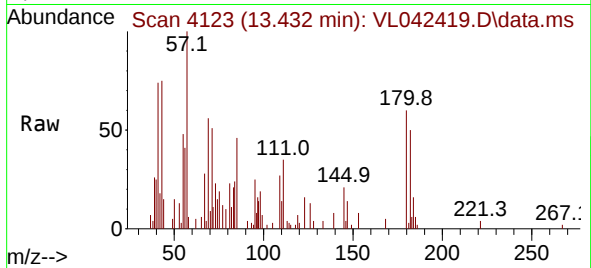
129 10.2 8.6 12.8





#81
 1,2,4-Trichlorobenzene
 Concen: 0.046 ppbv
 RT: 13.432 min Scan# 41
 Delta R.T. -0.010 min
 Lab File: VL042419.D
 Acq: 28 Apr 2025 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-3242025



Tgt Ion:180 Resp: 1680
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.8 115.2
 184 44.6 24.6 36.8#

