

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043276.D
 Acq On : 21 Nov 2025 08:28
 Operator : SY/MD
 Sample : Q3698-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Quant Time: Nov 25 08:41:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	100361	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	261614	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	196980	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	142344	9.859	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6903	0.488	ppbv	100
3) Chlorodifluoromethane	1.622	51	622	0.045	ppbv	95
4) Chloromethane	1.534	50	2660	0.503	ppbv #	83
5) Vinyl Chloride	1.573	62	27	0.005	ppbv #	41
6) Bromomethane	1.670	94	167	0.060	ppbv #	4
7) Chloroethane	1.699	64	58	0.026	ppbv #	41
8) Dichlorotetrafluoroethane	1.557	85	244	0.021	ppbv	94
9) Propene	1.489	41	5200	0.880	ppbv #	1
10) Heptane	4.972	43	149	0.008	ppbv #	28
11) Trichlorofluoromethane	1.877	101	3828	0.279	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	875	0.082	ppbv	96
13) Ethanol	1.722	45	10919	5.253	ppbv	97
14) Bromoethene	1.586	108	31	0.008	ppbv #	1
15) Acetone	1.835	43	80780	5.793	ppbv	98
16) 1,3-Butadiene	1.602	39	427	0.069	ppbv #	14
17) tert-Butyl alcohol	2.042	59	237	0.013	ppbv #	71
18) 1,1-Dichloroethene	1.978	96	44	0.009	ppbv #	1
19) Isopropyl Alcohol	1.887	45	9350	1.187	ppbv #	1
20) Methylene Chloride	2.062	84	4657	0.378	ppbv	94
21) Allyl Chloride	2.101	41	113	0.012	ppbv #	21
22) trans-1,2-Dichloroethene	2.343	96	59	0.010	ppbv #	1
23) Vinyl Acetate	2.454	43	1115	0.066	ppbv #	57
24) 1,1-Dichloroethane	2.350	63	37	0.003	ppbv #	86
25) Ethyl Acetate	2.829	43	2013	0.067	ppbv #	1
26) Hexane	2.829	57	2220	0.168	ppbv #	63
27) Carbon Disulfide	2.188	76	33	0.002	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	37	0.006	ppbv #	1
29) Chloroform	2.855	83	179	0.010	ppbv	89
30) Cyclohexane	3.855	84	80	0.007	ppbv #	1
31) cis-1,2-Dichloroethene	2.822	61	204	0.016	ppbv #	26
34) 2-Butanone	2.560	43	11906	0.645	ppbv	99
35) Carbon Tetrachloride	3.764	117	844	0.043	ppbv #	78
36) Benzene	3.654	78	2840	0.113	ppbv #	76
37) 1,2-Dichloroethane	3.211	62	85	0.006	ppbv #	80
39) 1,2-Dichloropropane	3.955	63	65285	7.120	ppbv #	25
40) 1,4-Dioxane	4.392	88	28	0.007	ppbv #	1
41) Tetrahydrofuran	3.059	42	48	0.005	ppbv #	37
42) Bromodichloromethane	4.493	83	25	0.001	ppbv #	24
43) Methyl Methacrylate	4.887	69	122	0.009	ppbv #	1
44) 2,2,4-Trimethylpentane	4.629	57	941	0.022	ppbv #	1
46) cis-1,3-Dichloropropene	5.477	75	26	0.002	ppbv #	22
48) Dibromochloromethane	7.224	129	23	0.001	ppbv #	10
49) Bromoform	9.626	173	45	0.003	ppbv #	28

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043276.D
 Acq On : 21 Nov 2025 08:28
 Operator : SY/MD
 Sample : Q3698-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Quant Time: Nov 25 08:41:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

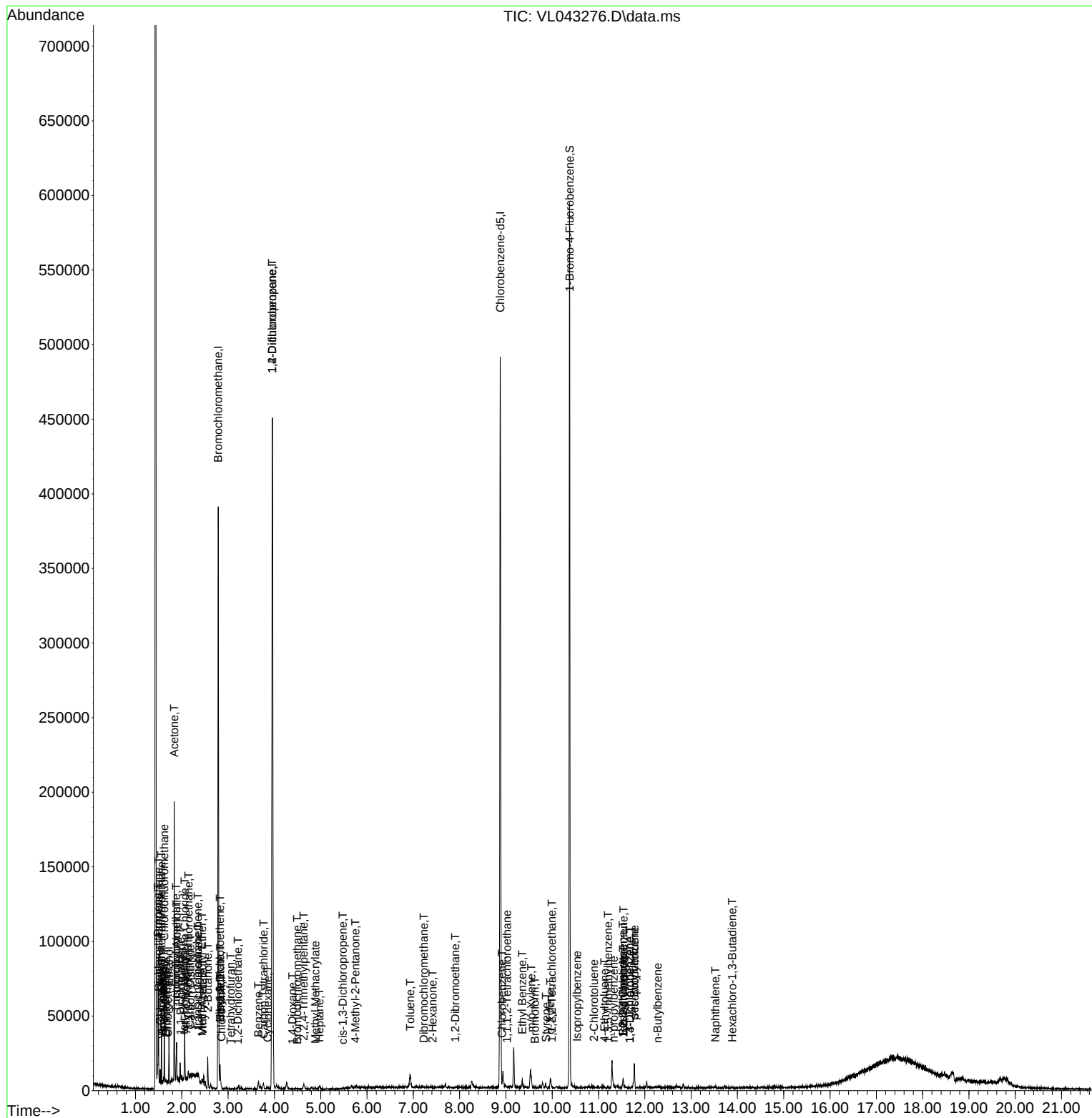
50) 4-Methyl-2-Pentanone	5.748	43	132	0.005	ppbv	#	39
51) 2-Hexanone	7.419	43	80	0.004	ppbv	#	29
53) Toluene	6.933	91	2800	0.094	ppbv	#	21
54) 1,2-Dibromoethane	7.907	107	28	0.002	ppbv	#	4
56) 1,1,1,2-Tetrachloroethane	9.024	131	31	0.002	ppbv	#	1
57) Chlorobenzene	8.917	112	40	0.002	ppbv	#	72
58) Ethyl Benzene	9.354	91	2894	0.076	ppbv	#	88
59) m/p-Xylene	9.548	91	2569	0.085	ppbv	#	31
60) o-Xylene	9.959	91	2700	0.089	ppbv		91
61) Styrene	9.869	104	186	0.014	ppbv	#	29
62) Isopropylbenzene	10.535	105	220	0.004	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.988	83	29	0.002	ppbv	#	25
64) n-propylbenzene	11.328	120	25	0.002	ppbv		82
65) tert-Butylbenzene	11.536	119	49	0.001	ppbv	#	1
66) Benzyl Chloride	11.532	91	206	0.042	ppbv	#	65
67) sec-Butylbenzene	11.772	105	92	0.001	ppbv	#	67
69) p-Isopropyltoluene	11.775	119	122	0.002	ppbv		99
70) n-Butylbenzene	12.277	91	77	0.001	ppbv	#	33
71) 2-Chlorotoluene	10.901	91	43	0.001	ppbv	#	45
72) 4-Ethyltoluene	11.128	105	284	0.008	ppbv	#	55
73) 1,3,5-Trimethylbenzene	11.205	105	207	0.007	ppbv	#	29
74) 1,2,4-Trimethylbenzene	11.539	105	527	0.016	ppbv	#	56
75) 1,3-Dichlorobenzene	11.671	146	47	0.002	ppbv	#	23
76) 1,4-Dichlorobenzene	11.678	146	14	0.001	ppbv	#	24
77) 1,2-Dichlorobenzene	11.523	146	39	0.002	ppbv		71
78) Hexachloro-1,3-Butadiene	13.885	225	89	0.006	ppbv	#	71
79) Naphthalene	13.520	128	360	0.012	ppbv	#	70

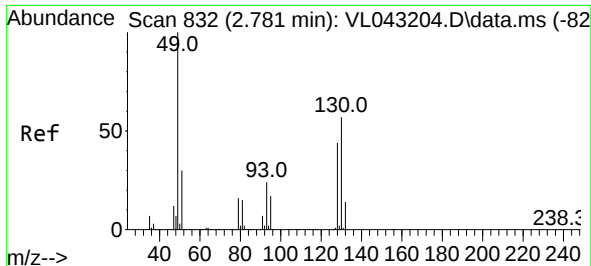
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043276.D
Acq On : 21 Nov 2025 08:28
Operator : SY/MD
Sample : Q3698-04DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Quant Time: Nov 25 08:41:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

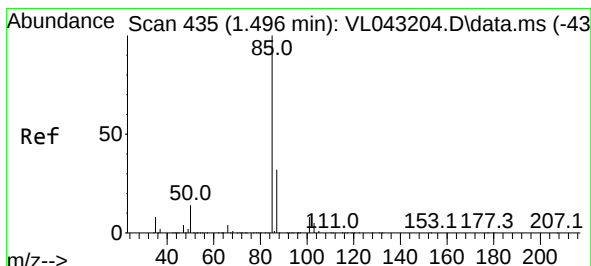
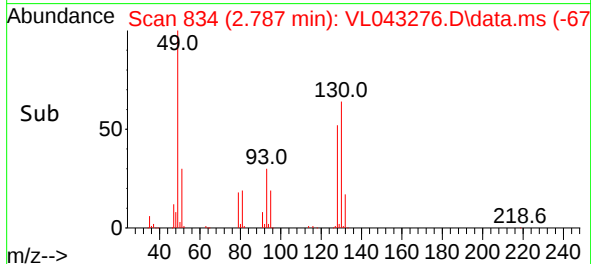
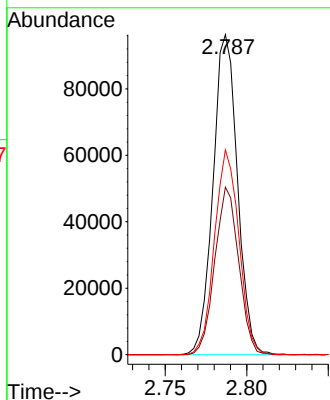
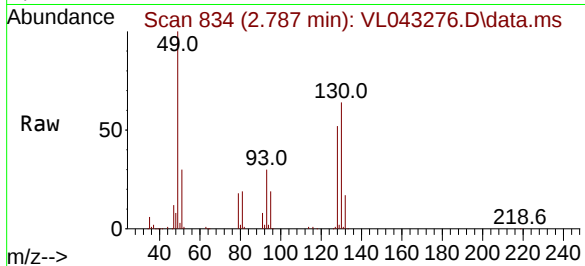




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

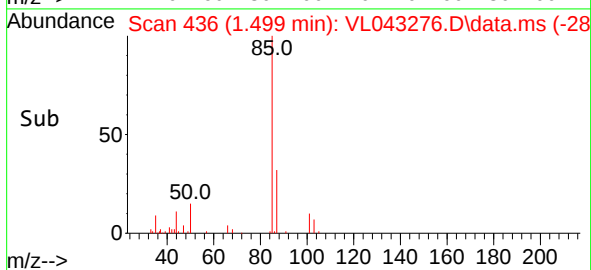
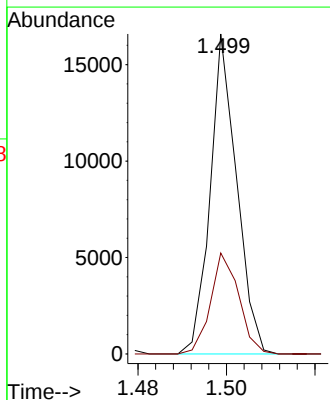
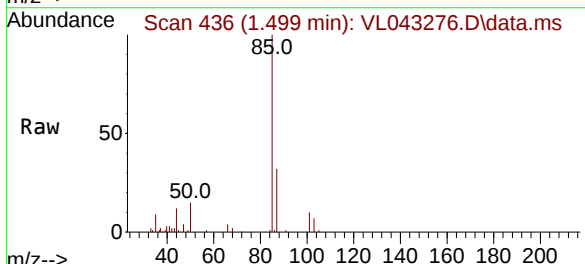
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

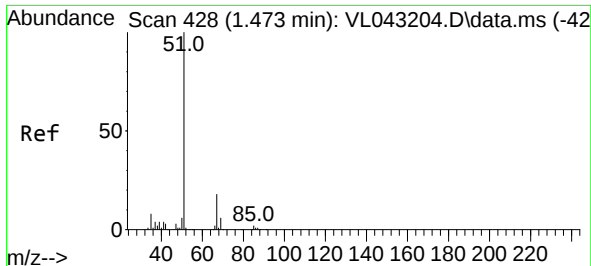
Tgt Ion: 49 Resp: 100361
Ion Ratio Lower Upper
49 100
128 51.1 23.0 69.0
130 63.9 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.488 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 85 Resp: 6903
Ion Ratio Lower Upper
85 100
87 31.6 25.4 38.2

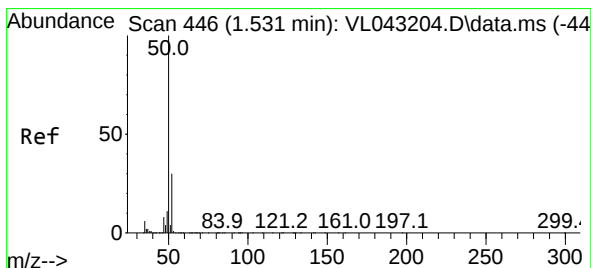
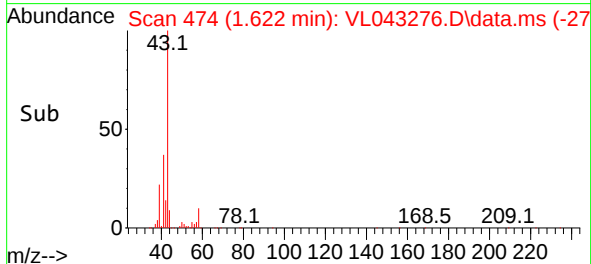
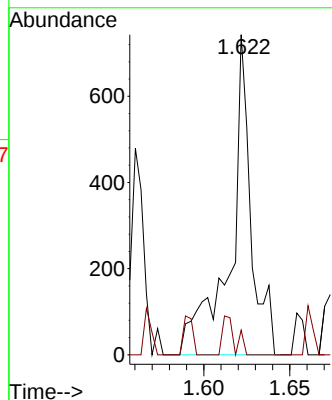
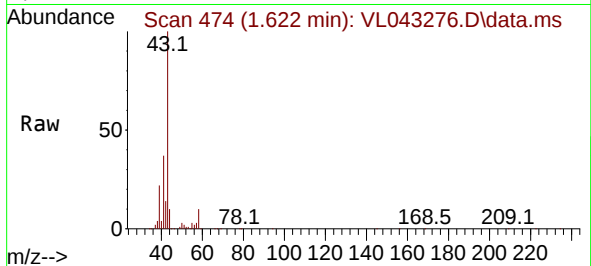




#3
Chlorodifluoromethane
Concen: 0.045 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.149 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

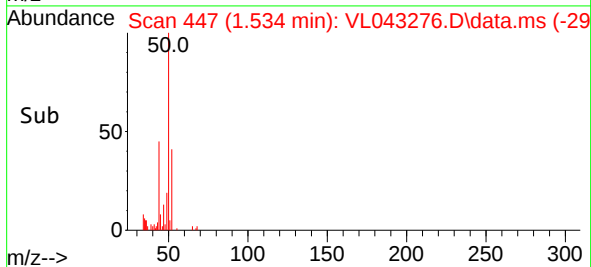
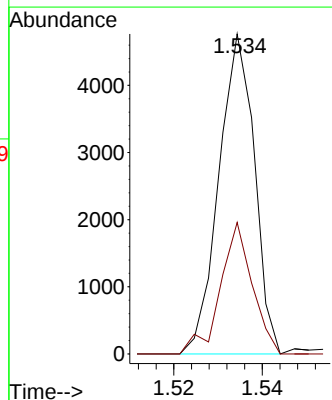
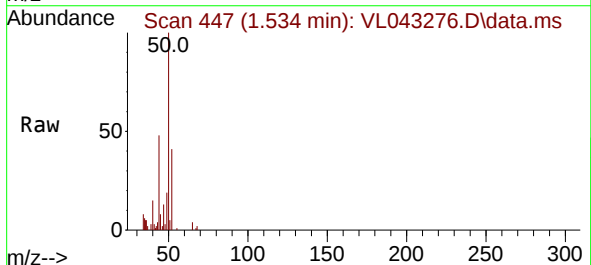
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

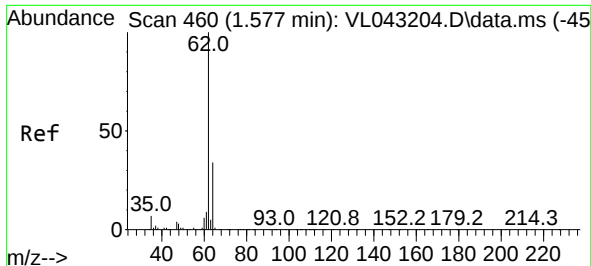
Tgt Ion: 51 Resp: 622
Ion Ratio Lower Upper
51 100
67 16.2 14.9 22.3



#4
Chloromethane
Concen: 0.503 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 50 Resp: 2660
Ion Ratio Lower Upper
50 100
52 39.3 24.1 36.1#

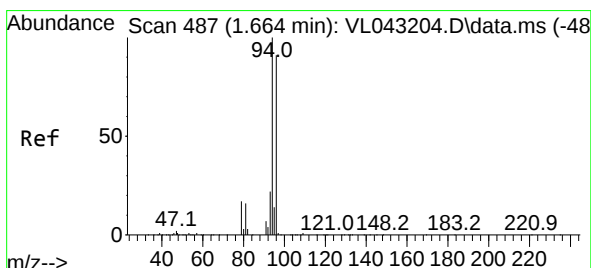
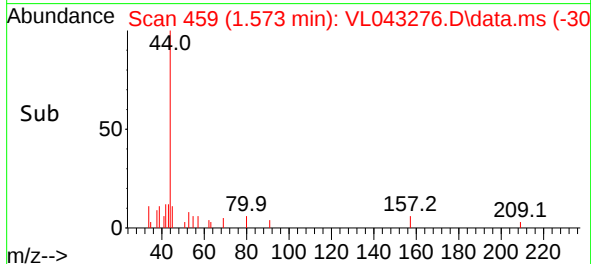
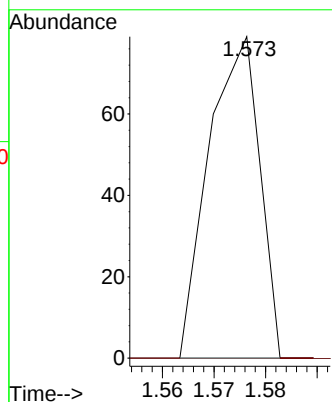
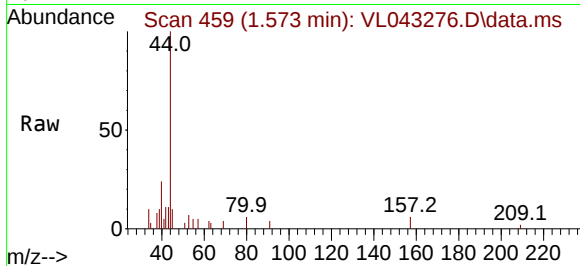




#5
 Vinyl Chloride
 Concen: 0.005 ppbv
 RT: 1.573 min Scan# 41
 Delta R.T. -0.004 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

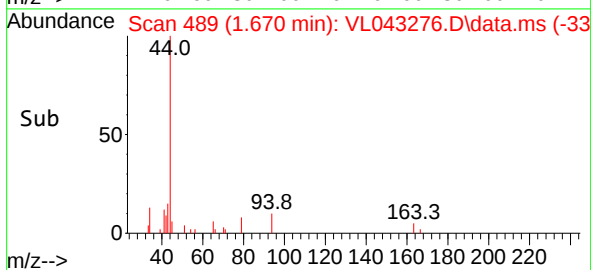
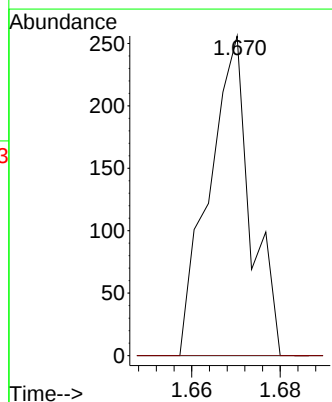
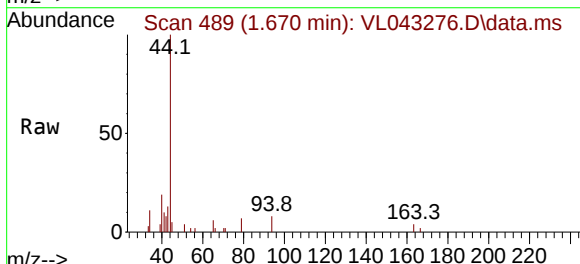
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

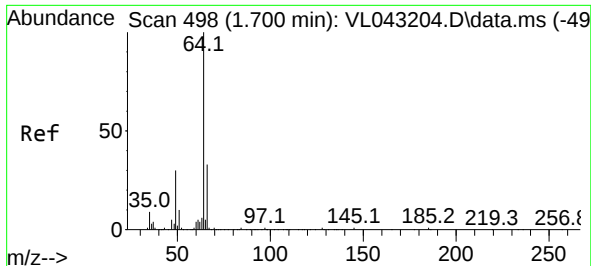
Tgt Ion: 62 Resp: 27
 Ion Ratio Lower Upper
 62 100
 64 0.0 27.3 40.9#



#6
 Bromomethane
 Concen: 0.060 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.006 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

Tgt Ion: 94 Resp: 167
 Ion Ratio Lower Upper
 94 100
 96 0.0 72.9 109.3#

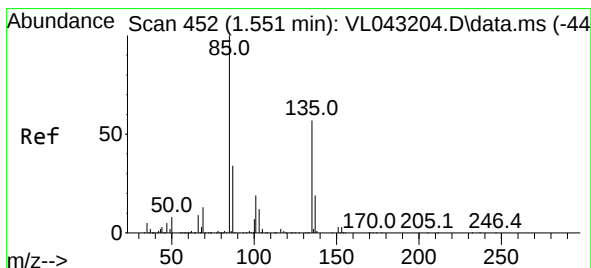
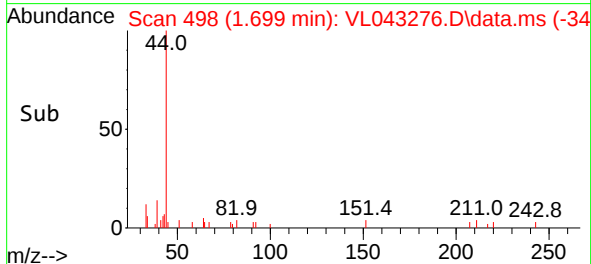
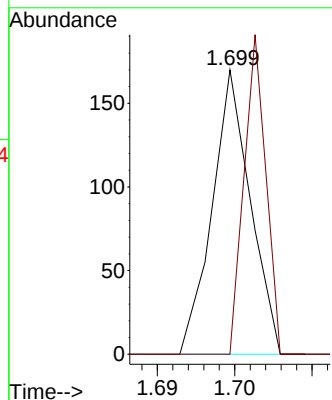
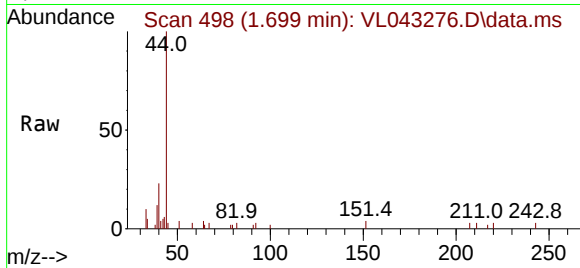




#7
Chloroethane
Concen: 0.026 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

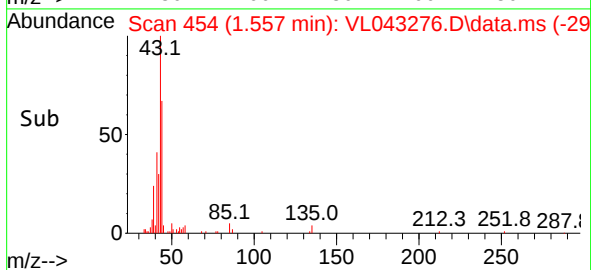
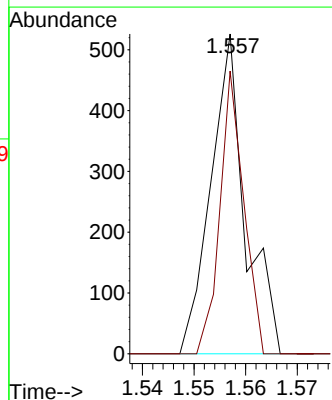
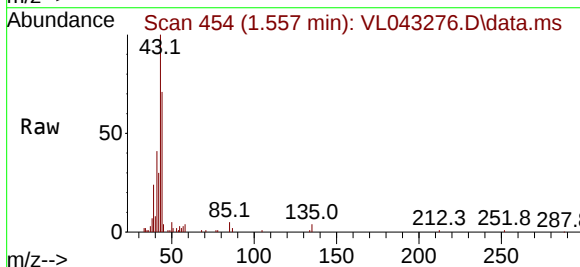
Instrument :
MSVOA_1
ClientSampleId :
OA1DUP

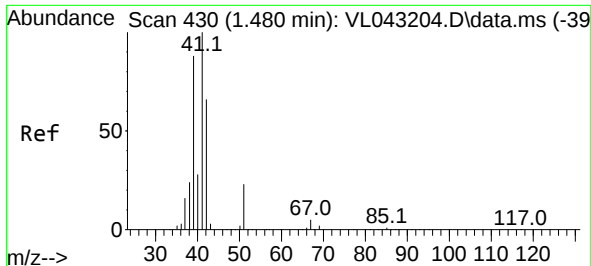
Tgt Ion: 64 Resp: 58
Ion Ratio Lower Upper
64 100
66 0.0 26.8 40.2#



#8
Dichlorotetrafluoroethane
Concen: 0.021 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.006 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 85 Resp: 244
Ion Ratio Lower Upper
85 100
135 61.1 52.6 79.0





#9

Propene

Concen: 0.880 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.009 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_L

ClientSampleId :

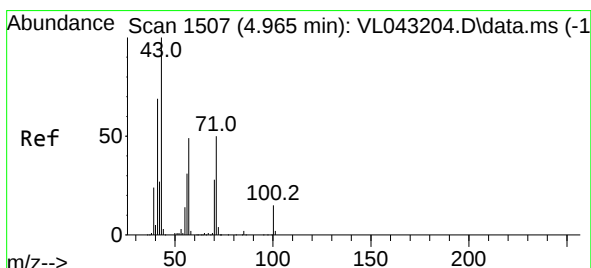
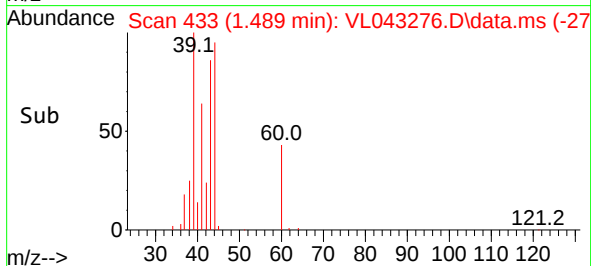
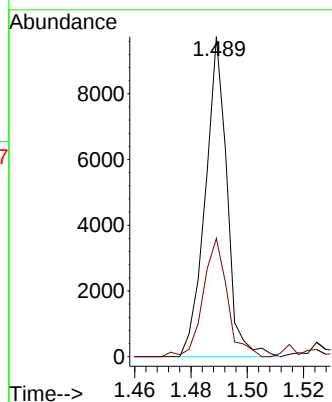
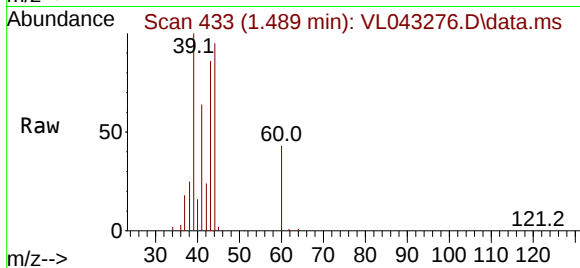
OA1DUP

Tgt Ion: 41 Resp: 5200

Ion Ratio Lower Upper

41 100

42 41.0 3.7 5.5#



#10

Heptane

Concen: 0.008 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. 0.006 min

Lab File: VL043276.D

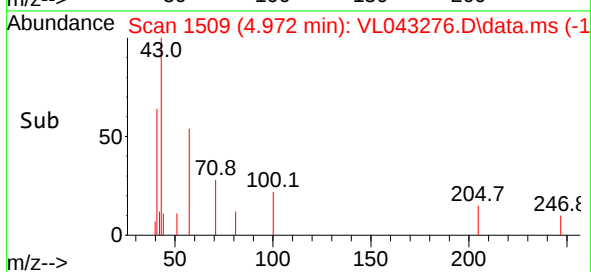
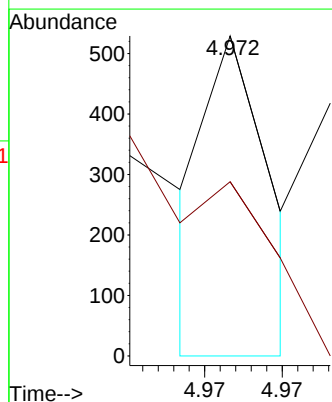
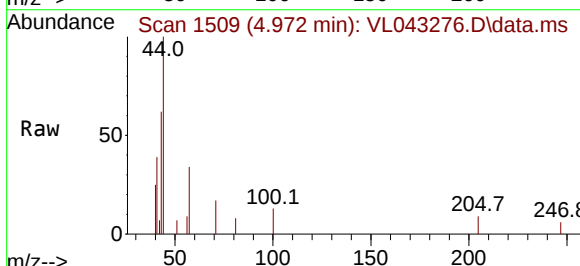
Acq: 21 Nov 2025 08:28

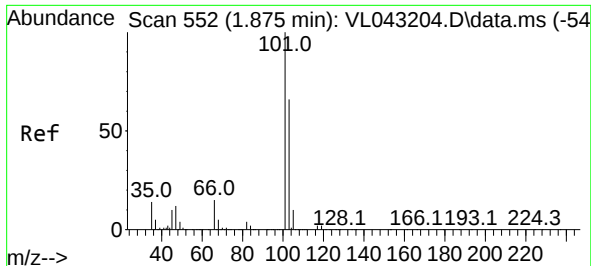
Tgt Ion: 43 Resp: 149

Ion Ratio Lower Upper

43 100

57 0.0 39.7 59.5#

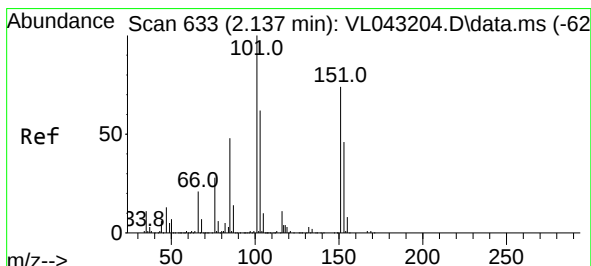
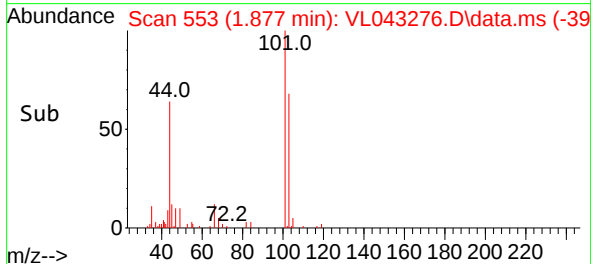
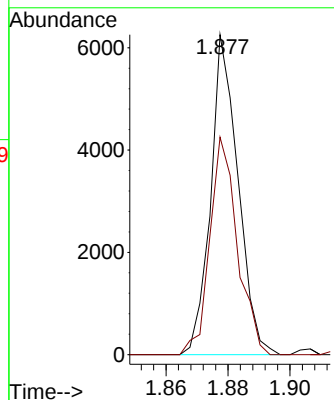
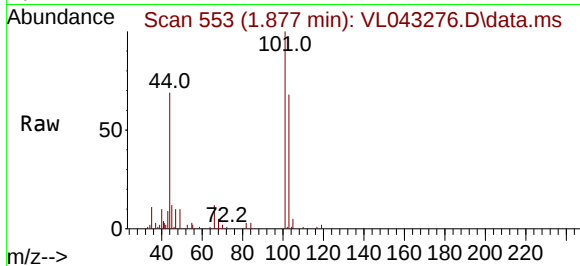




#11
 Trichlorofluoromethane
 Concen: 0.279 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

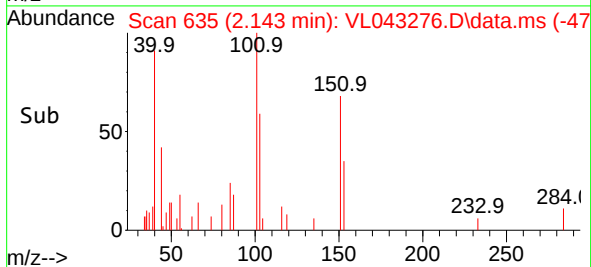
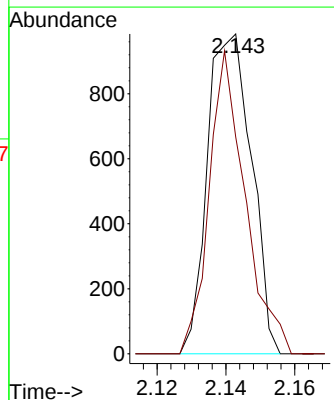
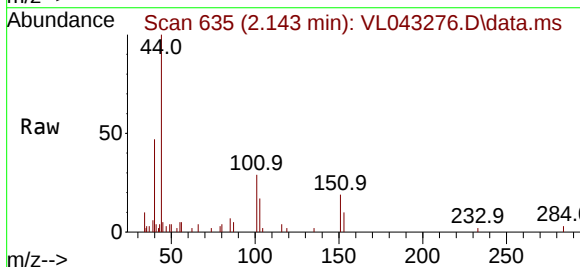
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

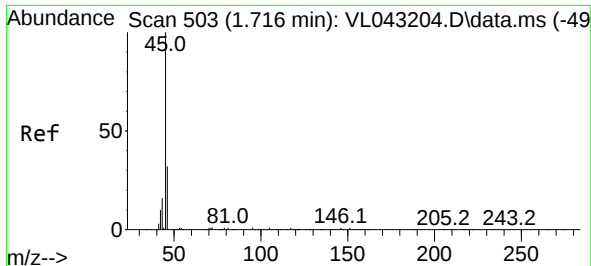
Tgt Ion:101 Resp: 3828
 Ion Ratio Lower Upper
 101 100
 103 68.0 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.082 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

Tgt Ion:101 Resp: 875
 Ion Ratio Lower Upper
 101 100
 151 77.4 59.2 88.8

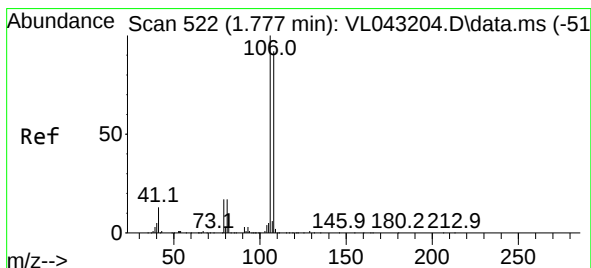
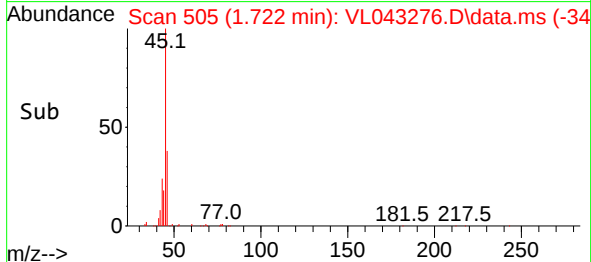
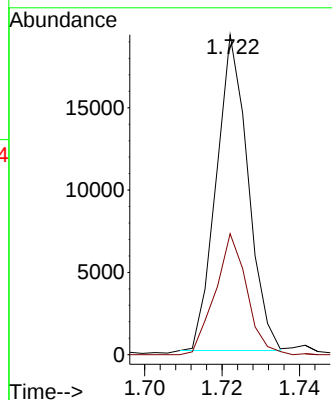
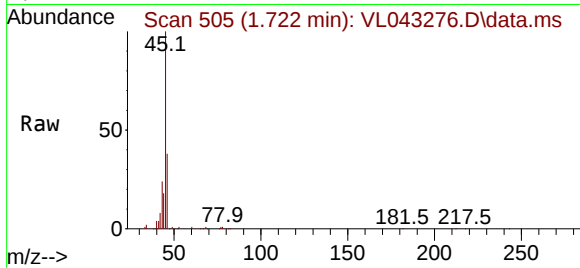




#13
Ethanol
Concen: 5.253 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

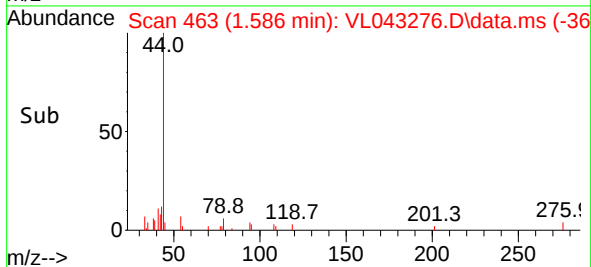
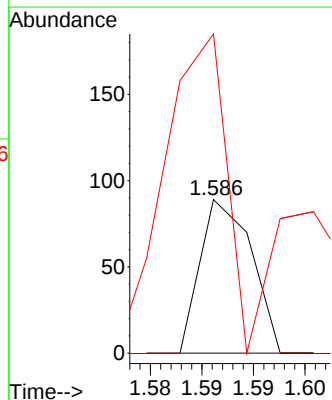
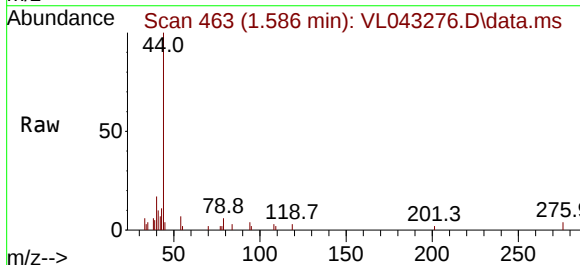
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

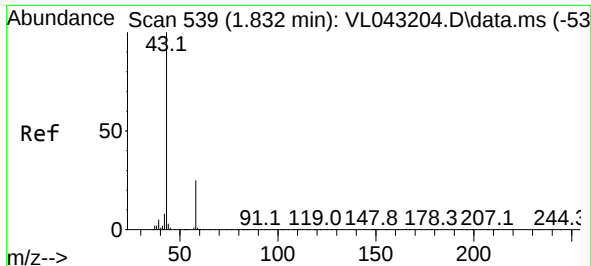
Tgt Ion: 45 Resp: 10919
Ion Ratio Lower Upper
45 100
46 39.5 15.0 59.8



#14
Bromoethene
Concen: 0.008 ppbv
RT: 1.586 min Scan# 463
Delta R.T. -0.191 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 108 Resp: 31
Ion Ratio Lower Upper
108 100
106 32.3 88.9 133.3#
79 248.4 16.5 24.7#

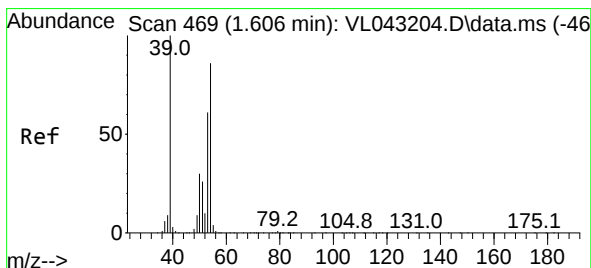
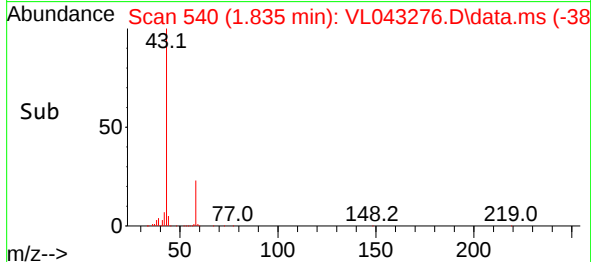
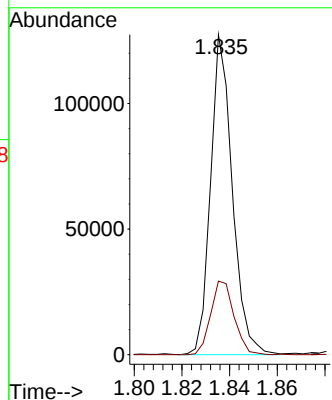
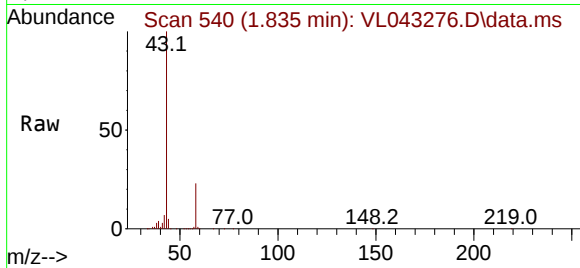




#15
Acetone
Concen: 5.793 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

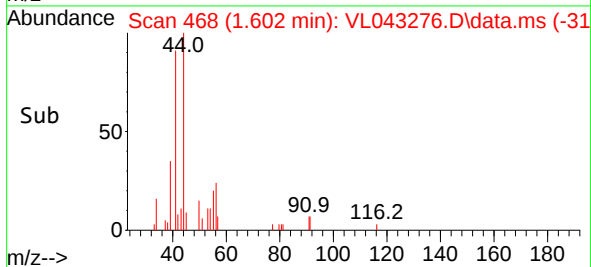
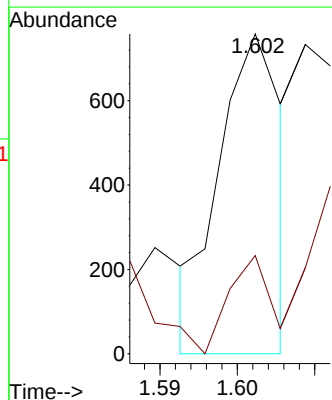
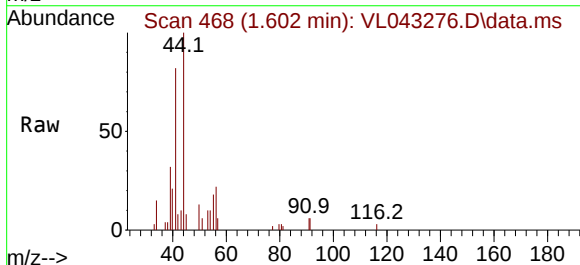
Instrument :
MSVOA_1
ClientSampleId :
OA1DUP

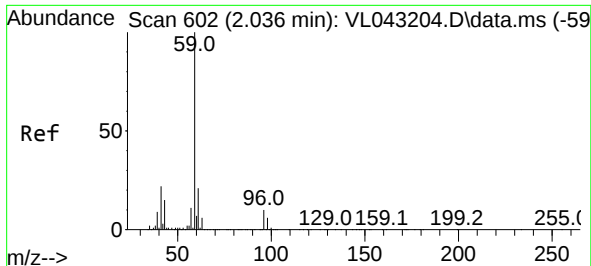
Tgt Ion: 43 Resp: 80780
Ion Ratio Lower Upper
43 100
58 24.7 20.7 31.1



#16
1,3-Butadiene
Concen: 0.069 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.004 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 39 Resp: 427
Ion Ratio Lower Upper
39 100
54 147.5 59.4 89.2#





#17

tert-Butyl alcohol

Concen: 0.013 ppbv

RT: 2.042 min Scan# 60

Delta R.T. 0.006 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_L

ClientSampleId :

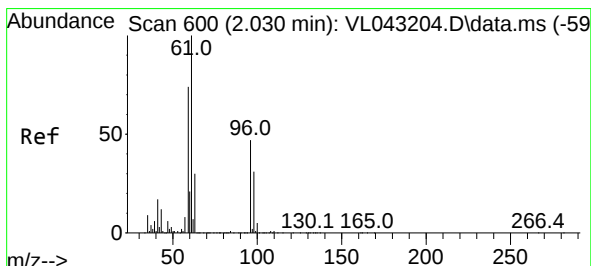
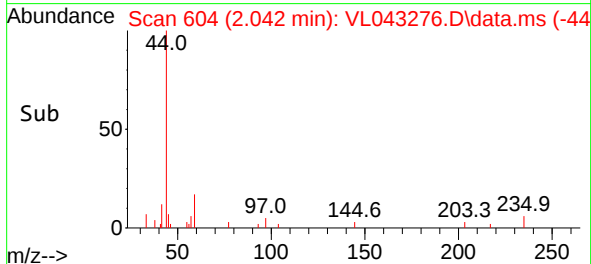
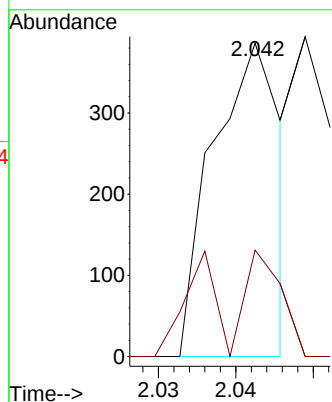
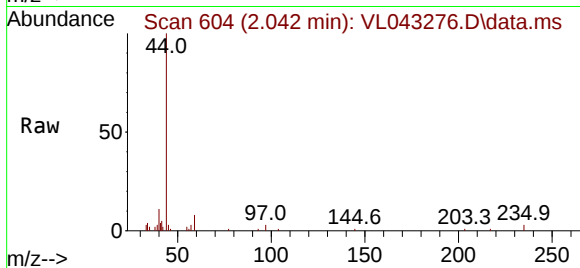
OA1DUP

Tgt Ion: 59 Resp: 237

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 0.009 ppbv

RT: 1.978 min Scan# 584

Delta R.T. -0.052 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

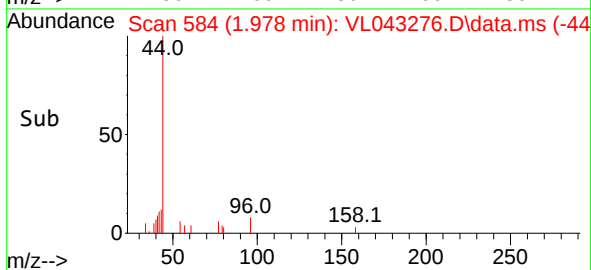
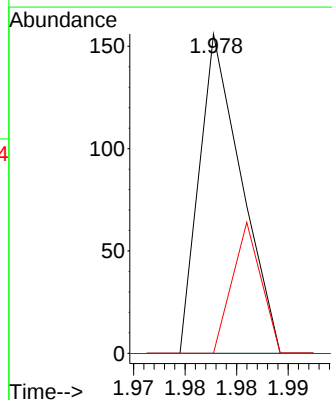
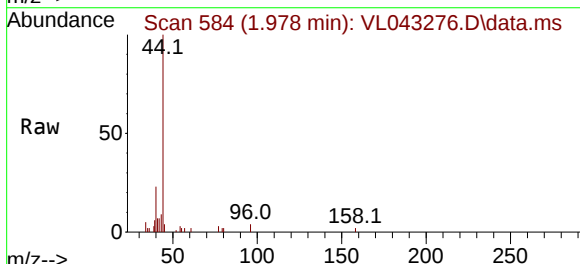
Tgt Ion: 96 Resp: 44

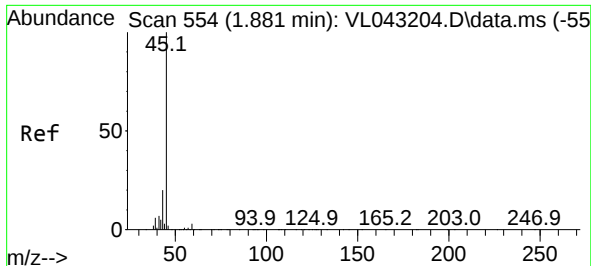
Ion Ratio Lower Upper

96 100

61 0.0 170.6 255.8#

98 0.0 52.2 78.4#

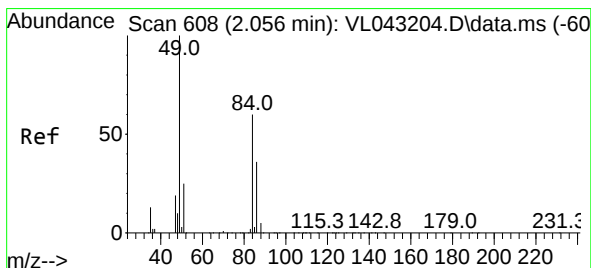
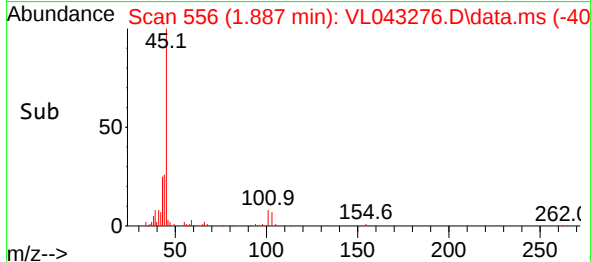
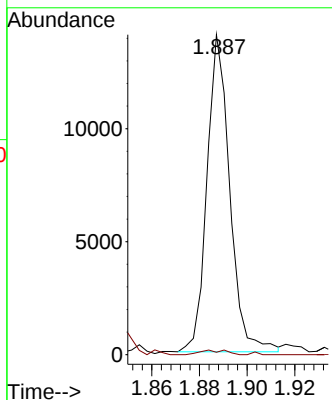
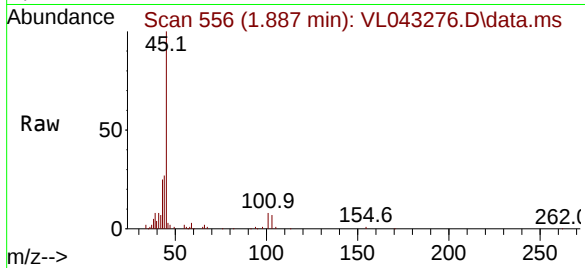




#19
Isopropyl Alcohol
Concen: 1.187 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

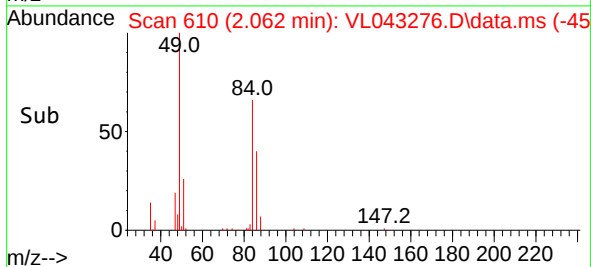
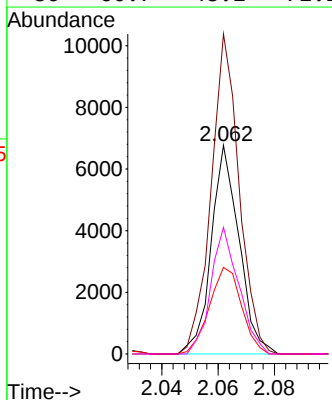
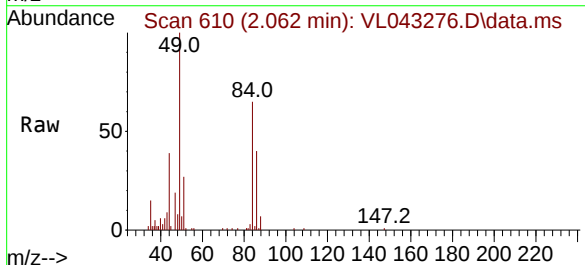
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

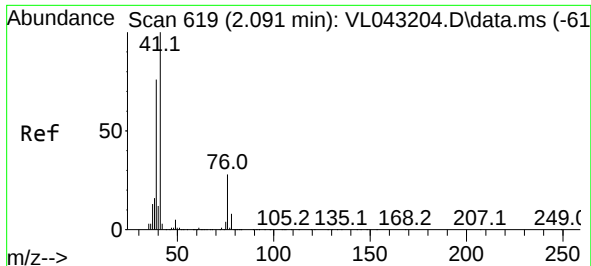
Tgt Ion: 45 Resp: 9350
Ion Ratio Lower Upper
45 100
58 213.8 31.3 46.9#



#20
Methylene Chloride
Concen: 0.378 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 84 Resp: 4657
Ion Ratio Lower Upper
84 100
49 153.4 132.9 199.3
51 41.5 34.8 52.2
86 60.7 48.2 72.2





#21

Allyl Chloride

Concen: 0.012 ppbv

RT: 2.101 min Scan# 619

Delta R.T. 0.009 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_1

ClientSampleId :

OA1DUP

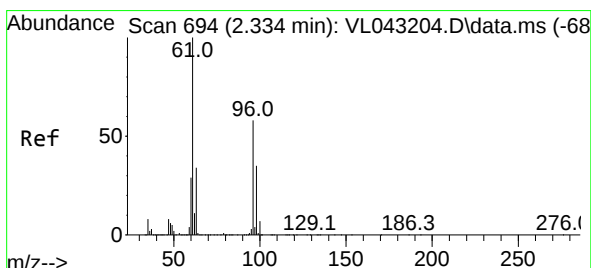
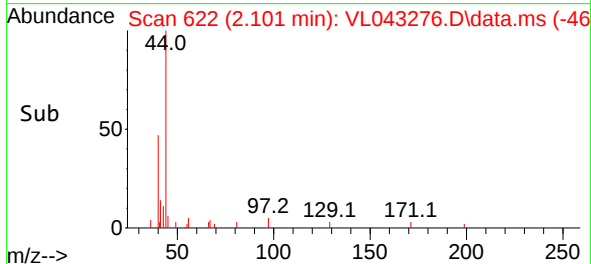
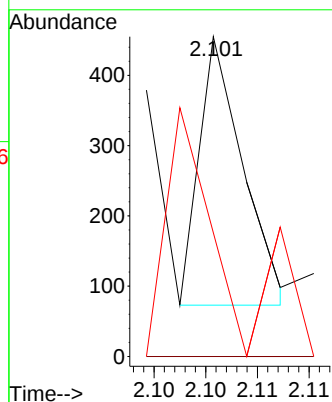
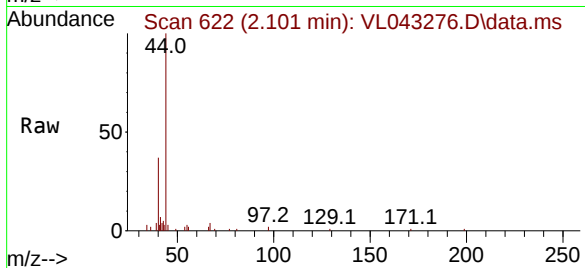
Tgt Ion: 41 Resp: 113

Ion Ratio Lower Upper

41 100

76 0.0 22.1 33.1#

39 0.0 61.0 91.4#



#22

trans-1,2-Dichloroethene

Concen: 0.010 ppbv

RT: 2.343 min Scan# 697

Delta R.T. 0.009 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

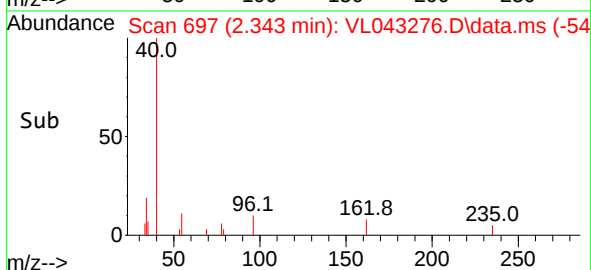
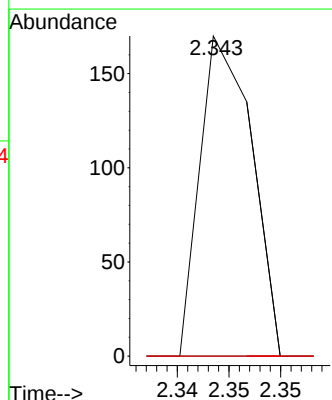
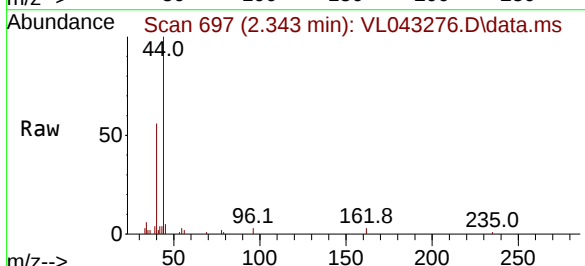
Tgt Ion: 96 Resp: 59

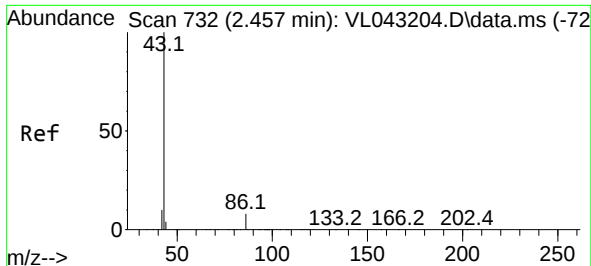
Ion Ratio Lower Upper

96 100

61 0.0 139.0 208.6#

98 0.0 49.4 74.2#

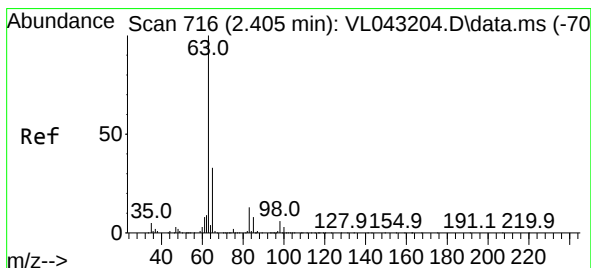
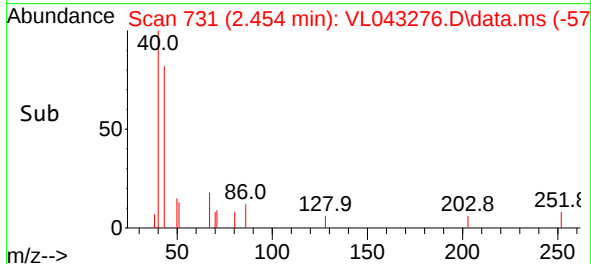
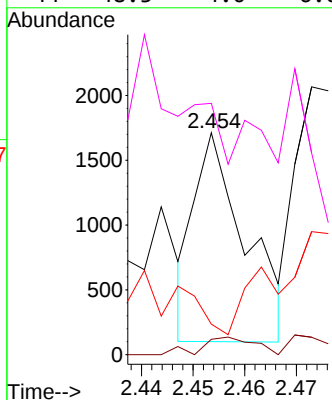
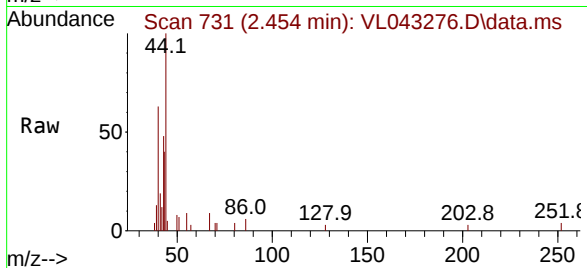




#23
 Vinyl Acetate
 Concen: 0.066 ppbv
 RT: 2.454 min Scan# 711
 Delta R.T. -0.004 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

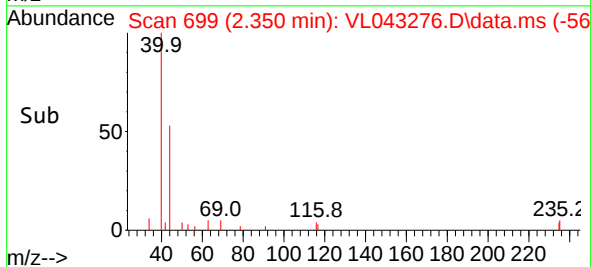
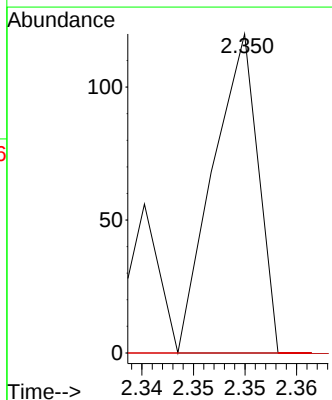
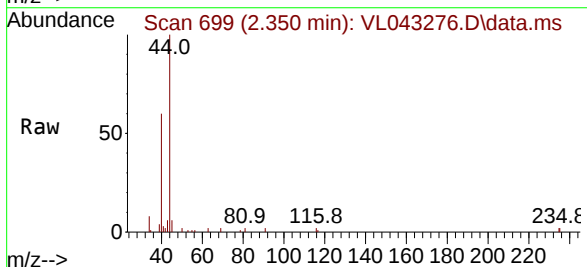
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

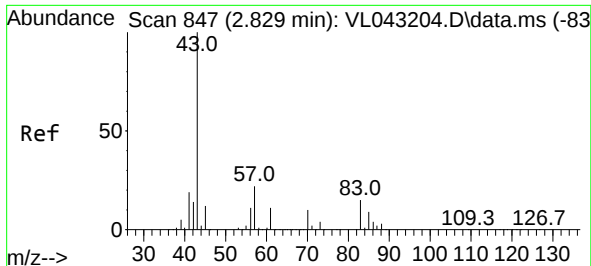
Tgt Ion:	43	Resp:	1115
Ion	Ratio	Lower	Upper
43	100		
86	10.1	6.2	9.2#
42	0.0	8.0	12.0#
44	48.3	4.0	6.0#



#24
 1,1-Dichloroethane
 Concen: 0.003 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. -0.055 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

Tgt Ion:	63	Resp:	37
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.8	8.4#
100	0.0	1.3	3.9#





#25

Ethyl Acetate

Concen: 0.067 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.000 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

Tgt Ion: 43 Resp: 2013

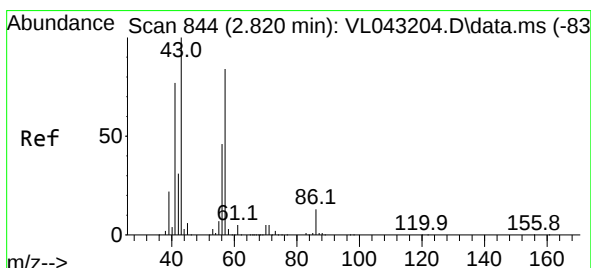
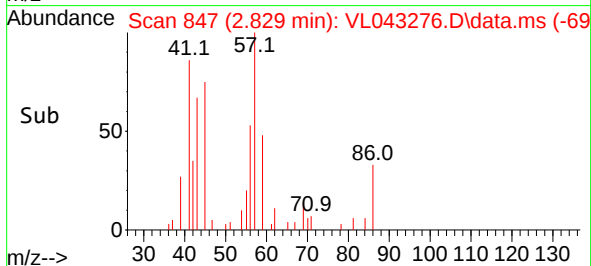
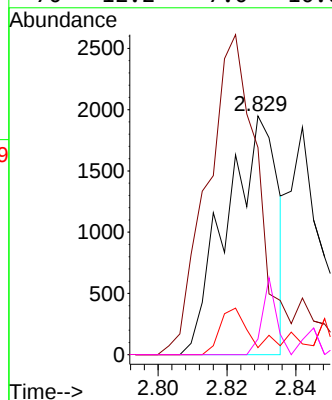
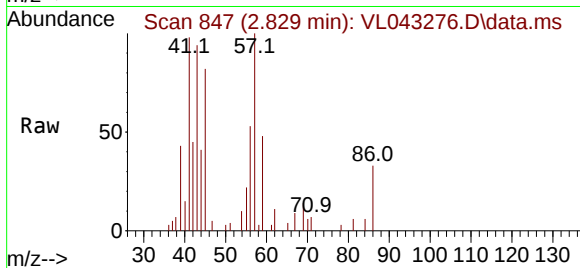
Ion Ratio Lower Upper

43 100

45 143.2 8.1 12.1#

61 10.1 7.0 10.4

70 12.2 7.0 10.6#



#26

Hexane

Concen: 0.168 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.009 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Tgt Ion: 57 Resp: 2220

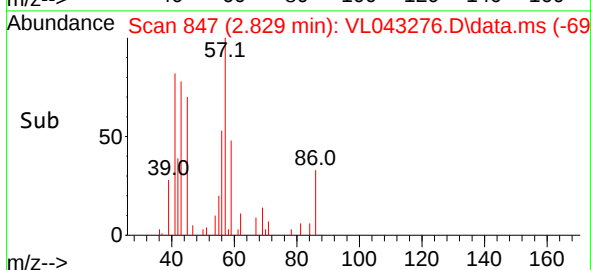
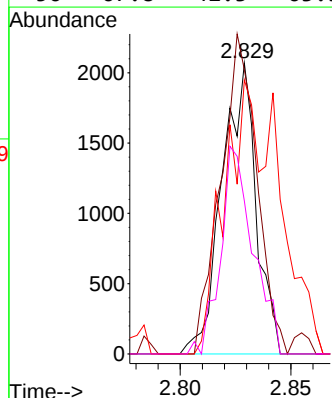
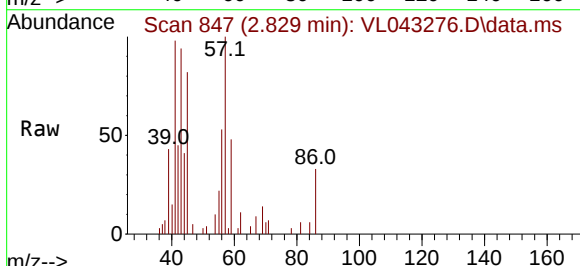
Ion Ratio Lower Upper

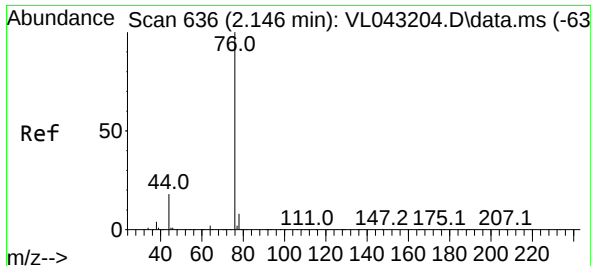
57 100

41 119.7 74.6 111.8#

43 150.4 179.0 268.4#

56 67.8 42.3 63.5#





#27

Carbon Disulfide

Concen: 0.002 ppbv

RT: 2.188 min Scan# 649

Delta R.T. 0.042 min

Lab File: VL043276.D

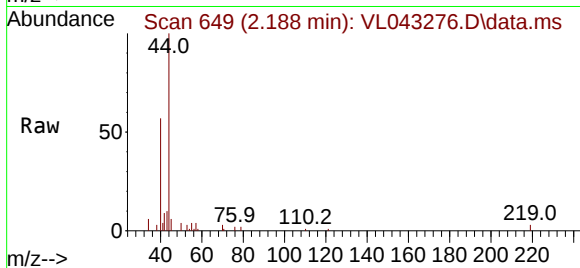
Acq: 21 Nov 2025 08:28

Instrument :

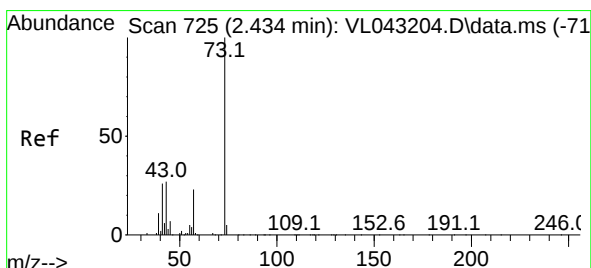
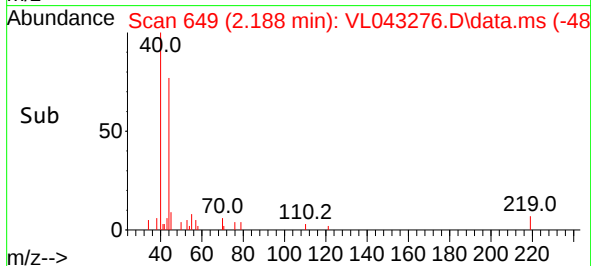
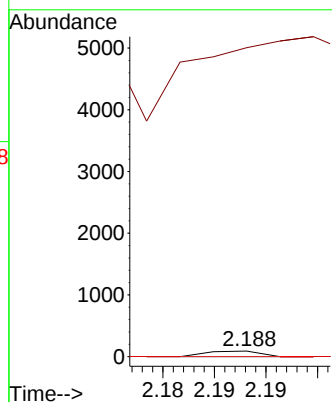
MSVOA_L

ClientSampleId :

OA1DUP



Tgt Ion: 76	Resp: 33
Ion Ratio	Lower Upper
76	100
44	19912.1 16.1 24.1#
78	33.3 9.6 14.4#



#28

Methyl tert-Butyl Ether

Concen: 0.006 ppbv

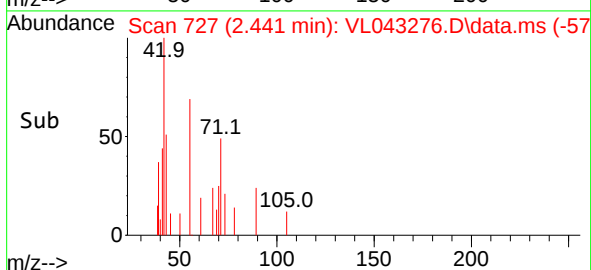
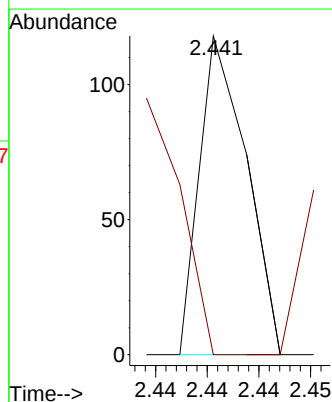
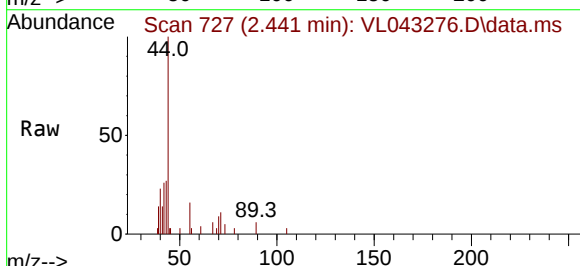
RT: 2.441 min Scan# 727

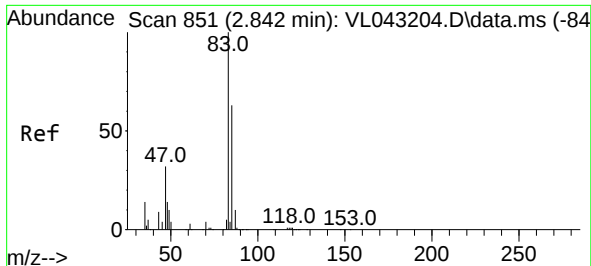
Delta R.T. 0.006 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Tgt Ion: 73	Resp: 37
Ion Ratio	Lower Upper
73	100
57	759.5 19.8 29.8#





#29

Chloroform

Concen: 0.010 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_L

ClientSampleId :

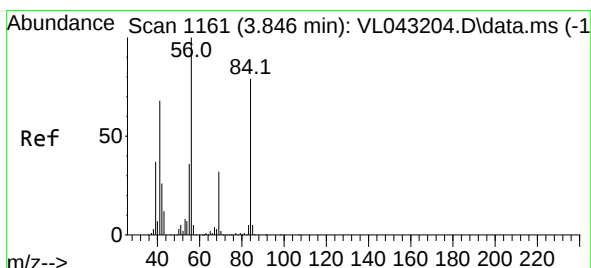
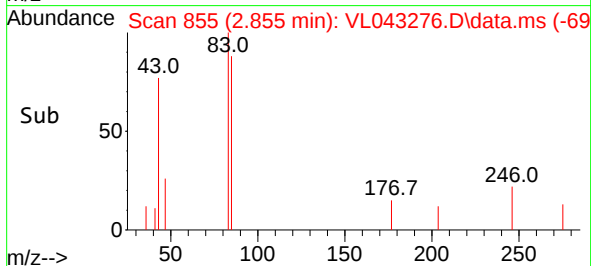
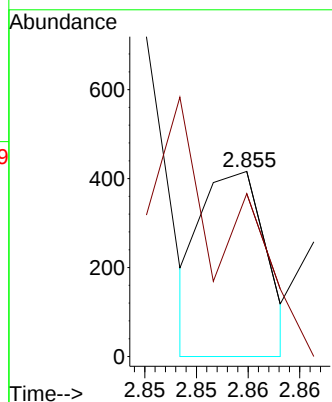
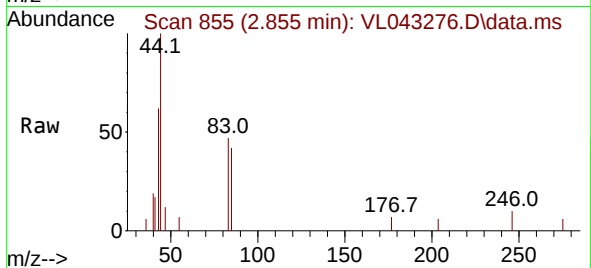
OA1DUP

Tgt Ion: 83 Resp: 179

Ion Ratio Lower Upper

83 100

85 71.8 50.5 75.7



#30

Cyclohexane

Concen: 0.007 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.009 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

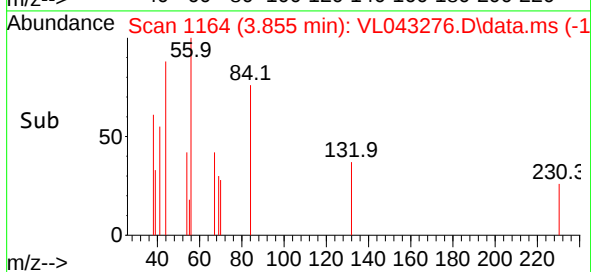
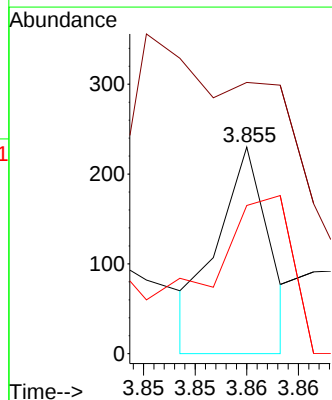
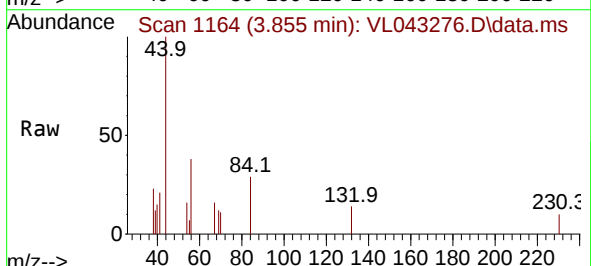
Tgt Ion: 84 Resp: 80

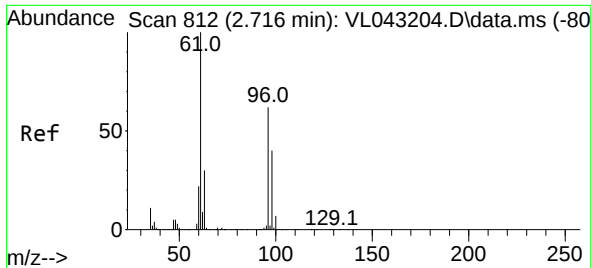
Ion Ratio Lower Upper

84 100

56 0.0 104.7 157.1#

41 382.5 69.0 103.6#

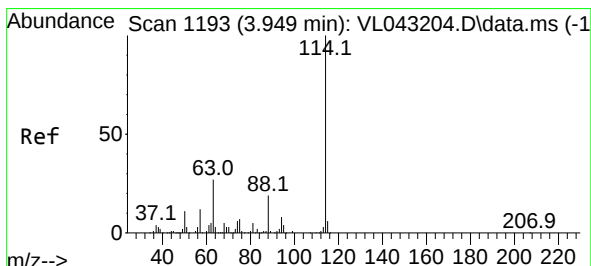
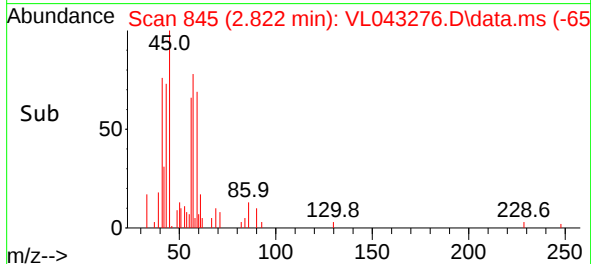
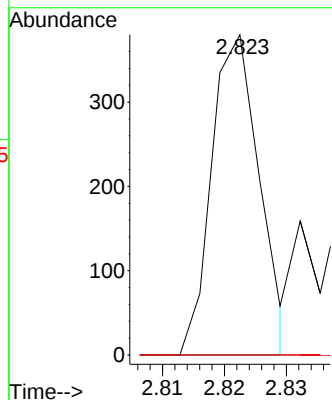
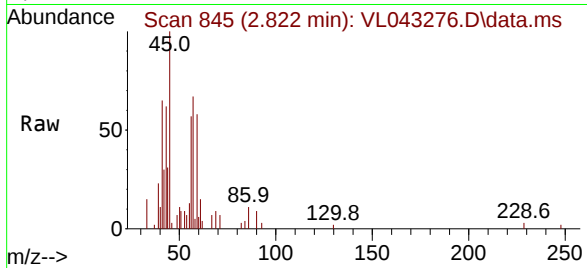




#31
 cis-1,2-Dichloroethene
 Concen: 0.016 ppbv
 RT: 2.822 min Scan# 845
 Delta R.T. 0.106 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

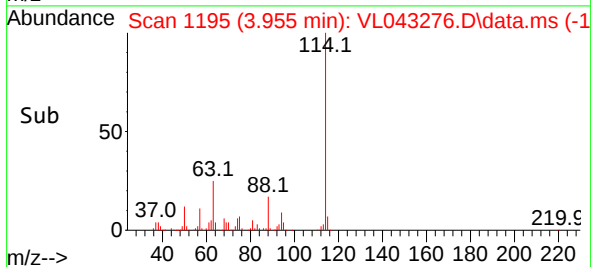
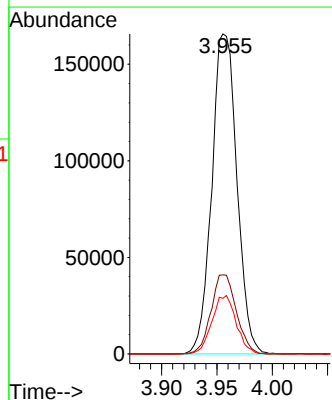
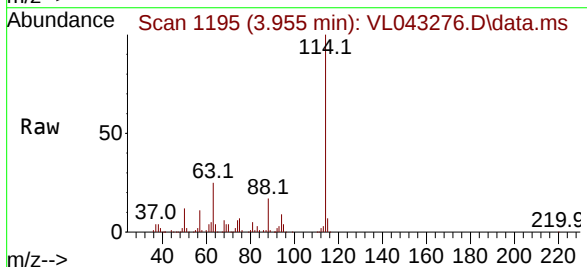
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

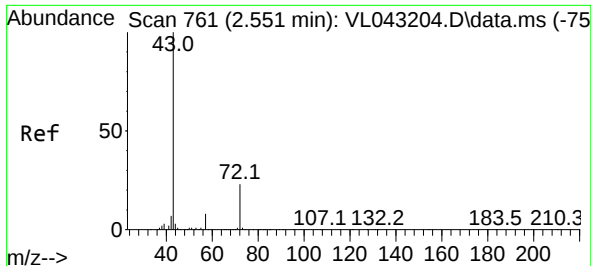
Tgt Ion: 61 Resp: 204
 Ion Ratio Lower Upper
 61 100
 96 0.0 49.3 73.9#
 98 0.0 32.1 48.1#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. 0.006 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

Tgt Ion: 114 Resp: 261614
 Ion Ratio Lower Upper
 114 100
 63 25.0 21.0 31.6
 88 17.7 14.9 22.3

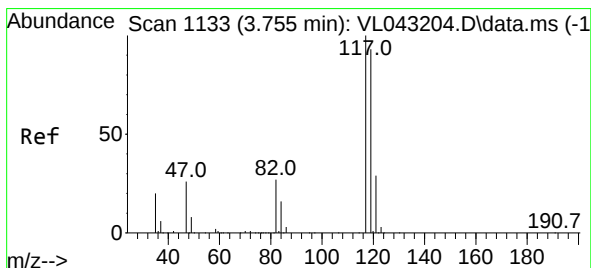
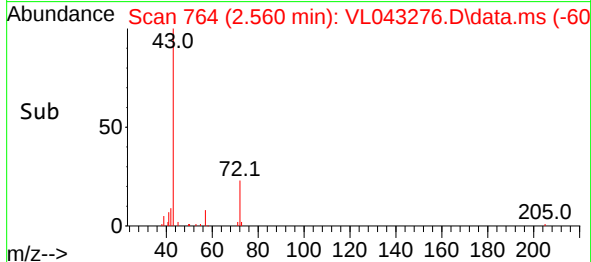
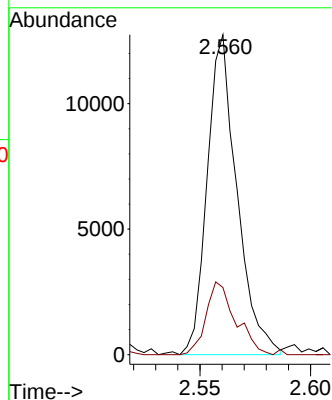
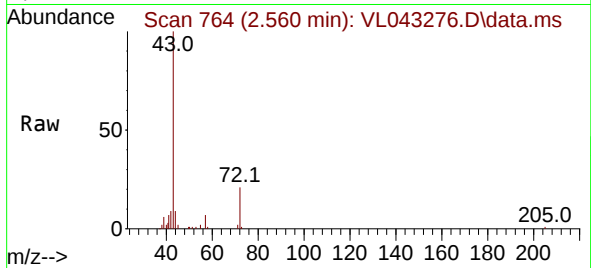




#34
2-Butanone
Concen: 0.645 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.009 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

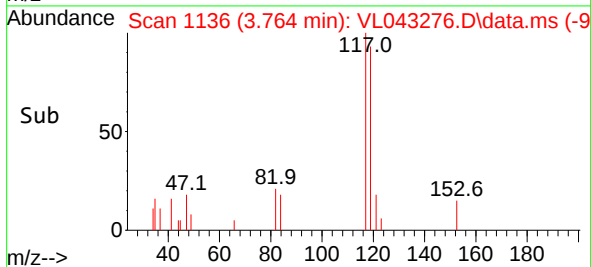
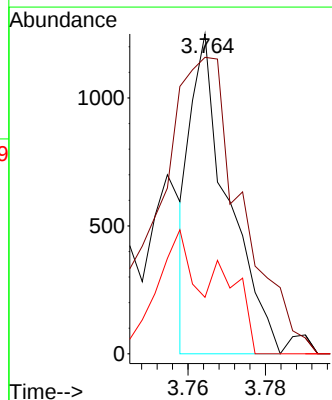
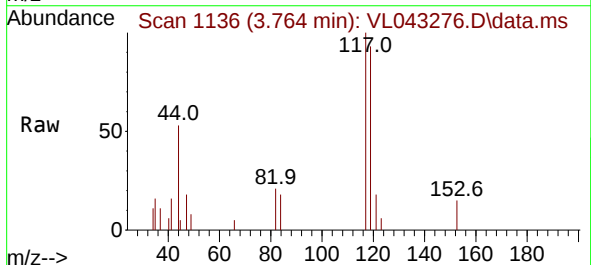
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

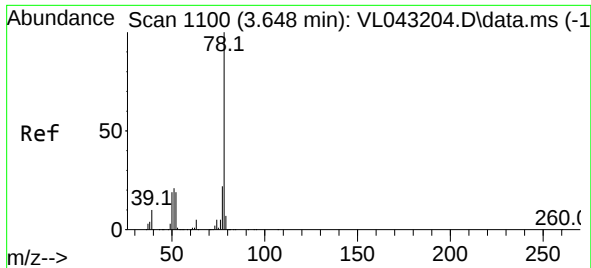
Tgt Ion: 43 Resp: 11906
Ion Ratio Lower Upper
43 100
72 22.9 18.1 27.1



#35
Carbon Tetrachloride
Concen: 0.043 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.009 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 117 Resp: 844
Ion Ratio Lower Upper
117 100
119 72.0 74.6 112.0#
121 17.7 23.2 34.8#

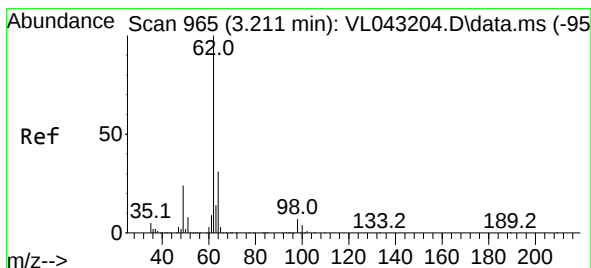
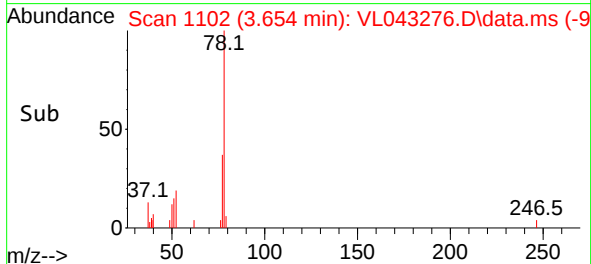
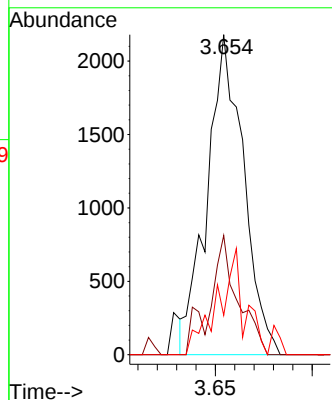
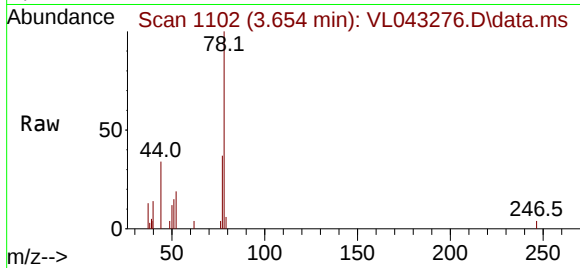




#36
Benzene
Concen: 0.113 ppbv
RT: 3.654 min Scan# 1100
Delta R.T. 0.006 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

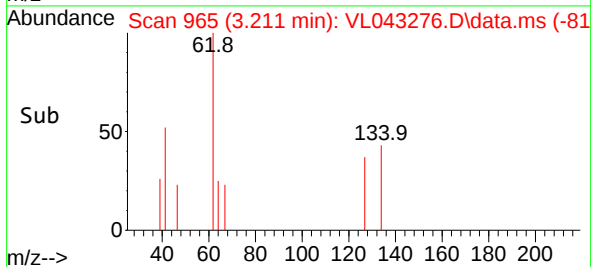
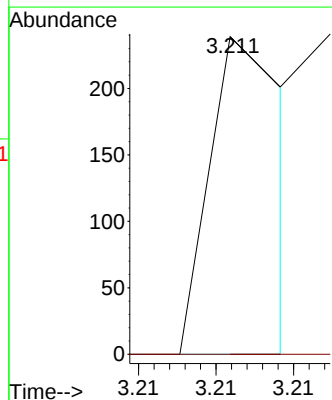
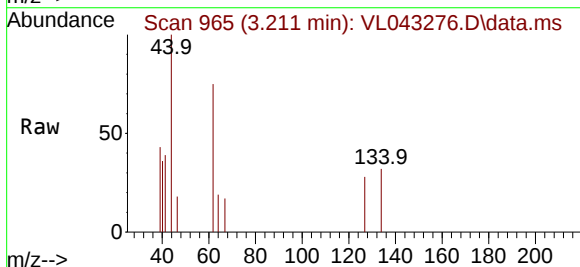
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

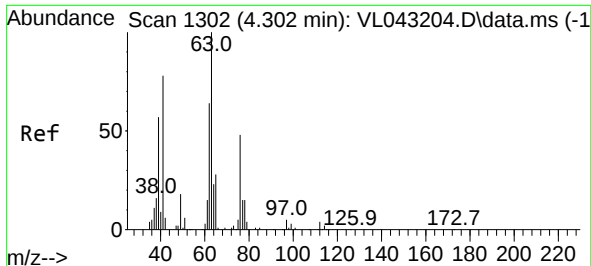
Tgt Ion: 78 Resp: 2840
Ion Ratio Lower Upper
78 100
77 37.2 17.5 26.3#
50 12.3 15.5 23.3#



#37
1,2-Dichloroethane
Concen: 0.006 ppbv
RT: 3.211 min Scan# 965
Delta R.T. -0.000 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 62 Resp: 85
Ion Ratio Lower Upper
62 100
98 0.0 5.5 8.3#





#39

1,2-Dichloropropane

Concen: 7.120 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.347 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

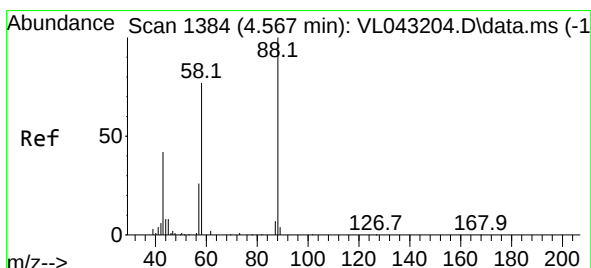
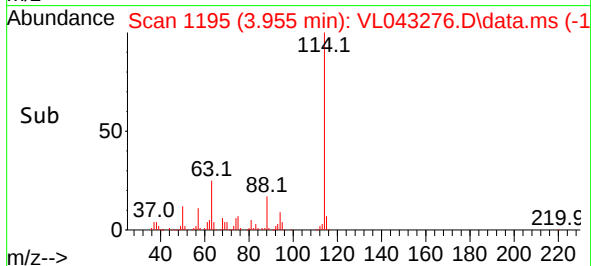
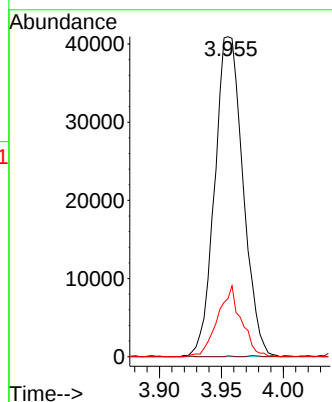
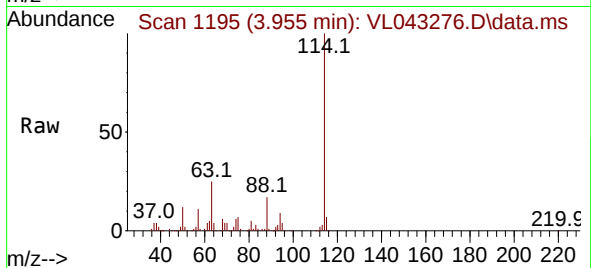
Tgt Ion: 63 Resp: 65285

Ion Ratio Lower Upper

63 100

41 0.3 62.6 93.8#

62 18.2 51.0 76.6#



#40

1,4-Dioxane

Concen: 0.007 ppbv

RT: 4.392 min Scan# 1330

Delta R.T. -0.175 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Tgt Ion: 88 Resp: 28

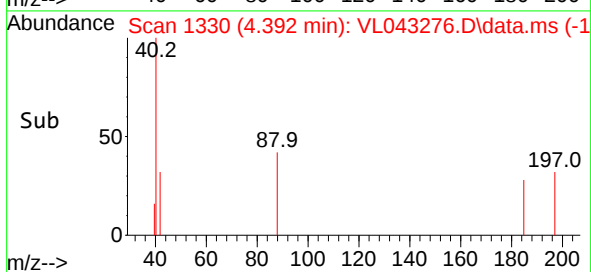
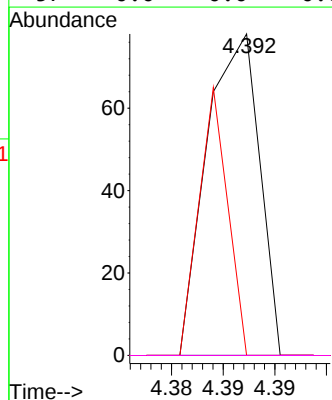
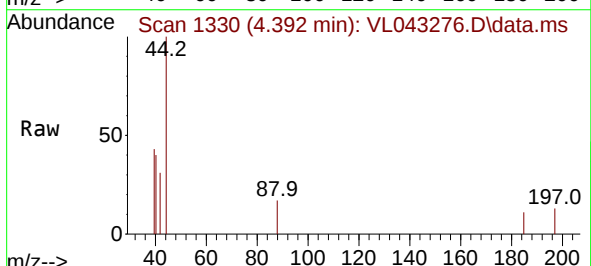
Ion Ratio Lower Upper

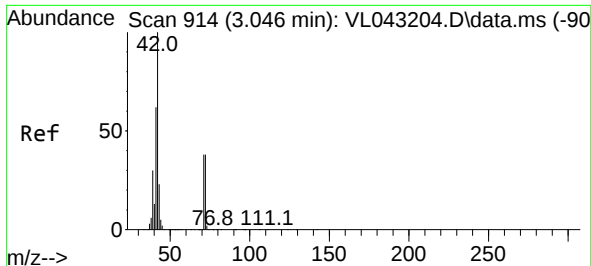
88 100

58 0.0 63.0 94.6#

43 257.1 32.5 48.7#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.005 ppbv

RT: 3.059 min Scan# 914

Delta R.T. 0.013 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

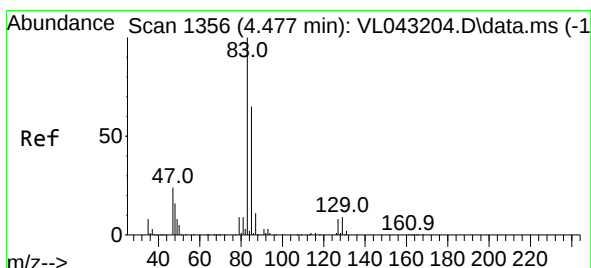
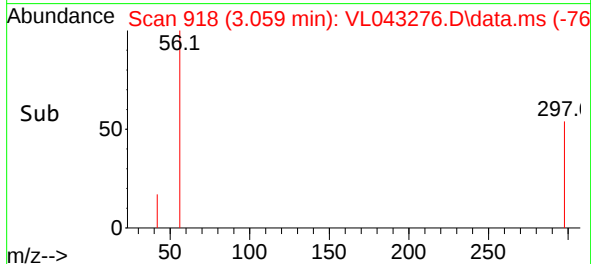
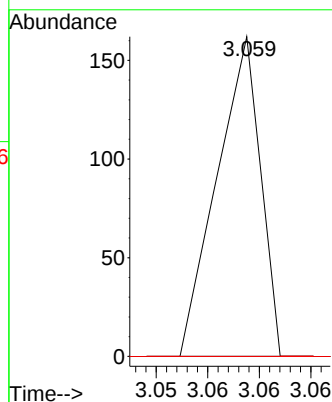
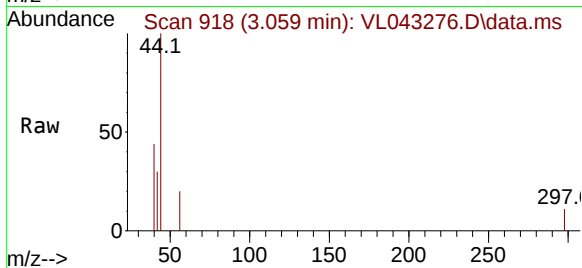
Tgt Ion: 42 Resp: 48

Ion Ratio Lower Upper

42 100

72 0.0 30.6 46.0#

71 0.0 30.5 45.7#



#42

Bromodichloromethane

Concen: 0.001 ppbv

RT: 4.493 min Scan# 1361

Delta R.T. 0.016 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

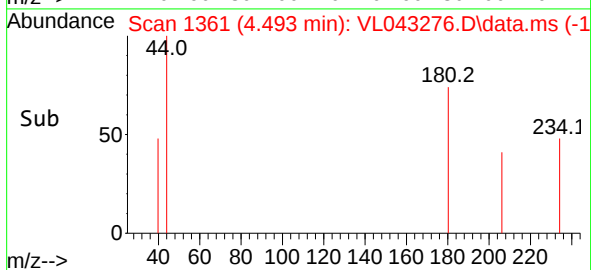
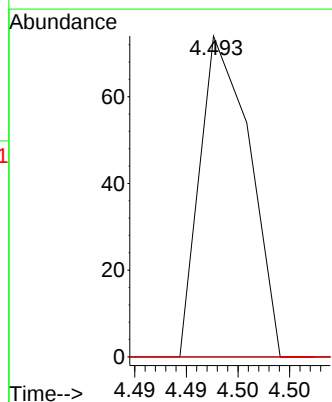
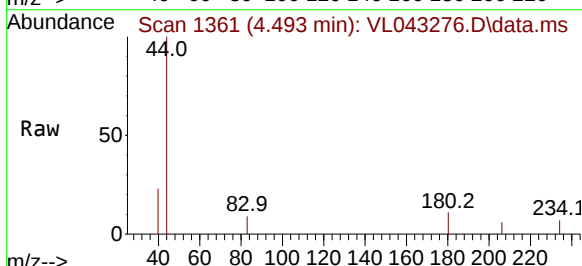
Tgt Ion: 83 Resp: 25

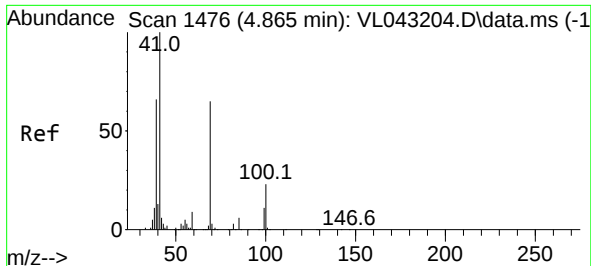
Ion Ratio Lower Upper

83 100

85 0.0 51.7 77.5#

127 0.0 6.3 9.5#

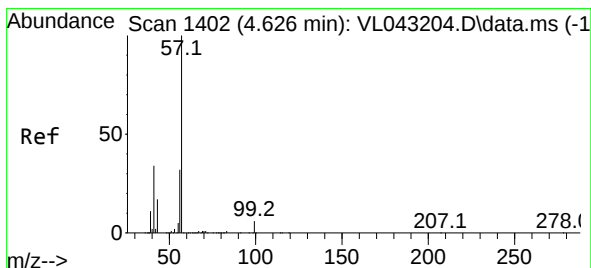
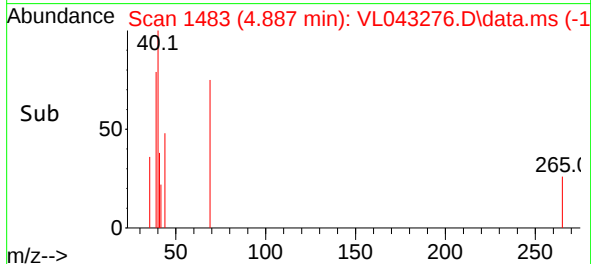
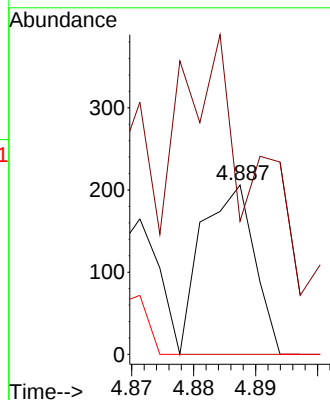
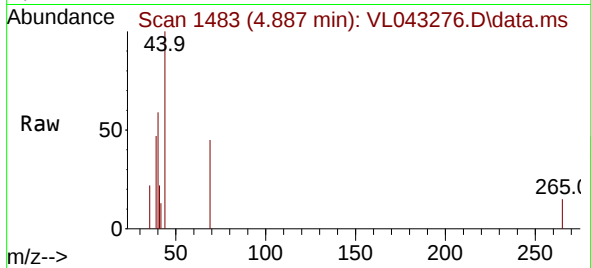




#43
Methyl Methacrylate
Concen: 0.009 ppbv
RT: 4.887 min Scan# 1476
Delta R.T. 0.022 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

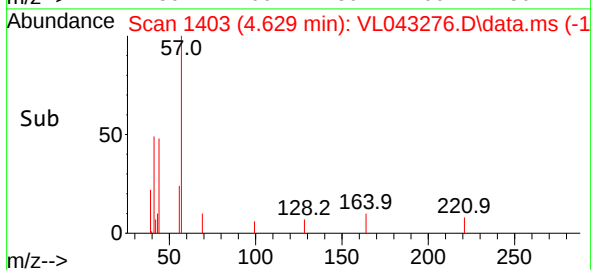
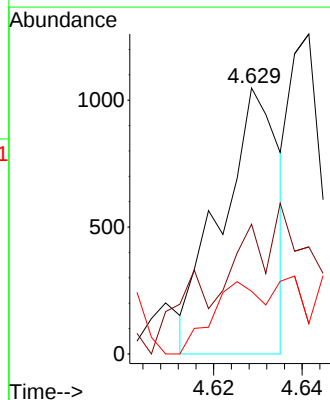
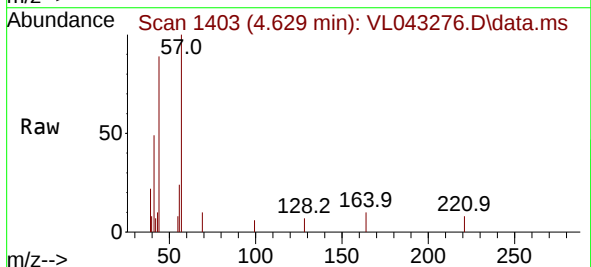
Instrument :
MSVOA_1
ClientSampleId :
OA1DUP

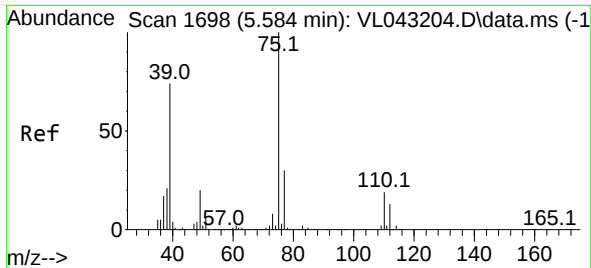
Tgt Ion: 69 Resp: 122
Ion Ratio Lower Upper
69 100
41 527.0 126.7 190.1#
100 0.0 28.6 43.0#



#44
2,2,4-Trimethylpentane
Concen: 0.022 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 57 Resp: 941
Ion Ratio Lower Upper
57 100
41 117.9 28.0 42.0#
56 0.0 25.6 38.4#

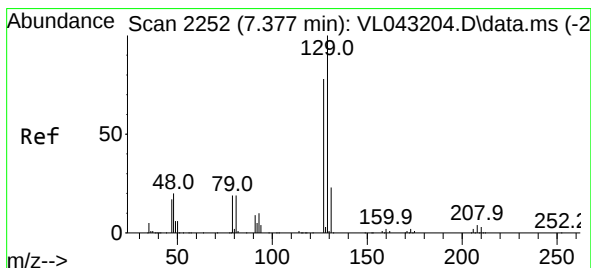
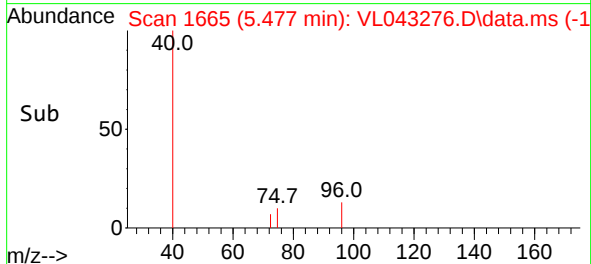
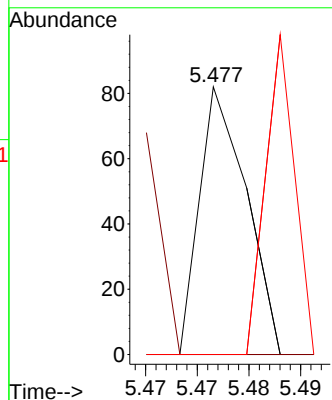
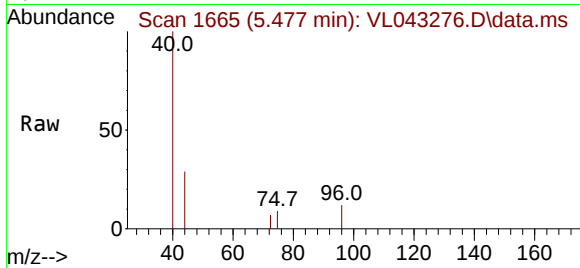




#46
cis-1,3-Dichloropropene
Concen: 0.002 ppbv
RT: 5.477 min Scan# 1
Delta R.T. -0.107 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

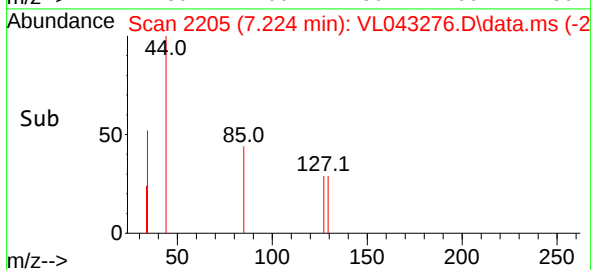
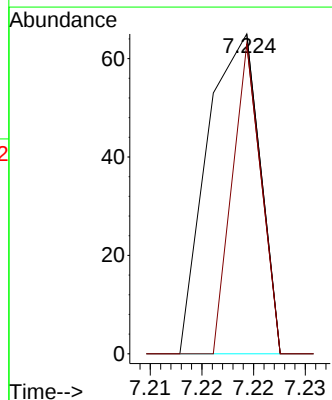
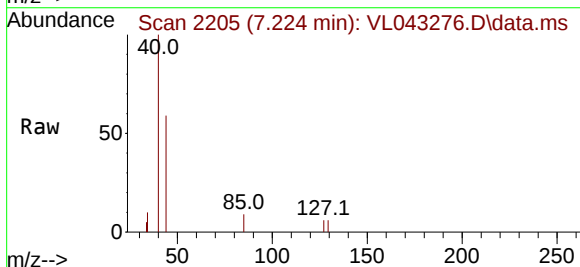
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

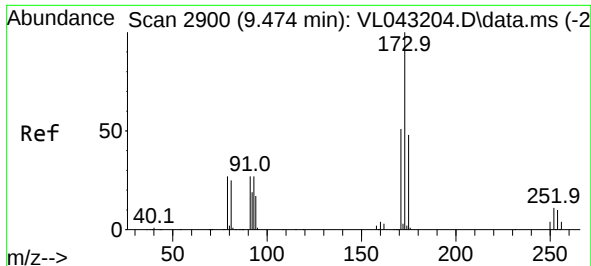
Tgt Ion: 75 Resp: 26
Ion Ratio Lower Upper
75 100
39 0.0 59.1 88.7#
77 0.0 24.2 36.2#



#48
Dibromochloromethane
Concen: 0.001 ppbv
RT: 7.224 min Scan# 2205
Delta R.T. -0.152 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 129 Resp: 23
Ion Ratio Lower Upper
129 100
127 0.0 39.3 117.9#

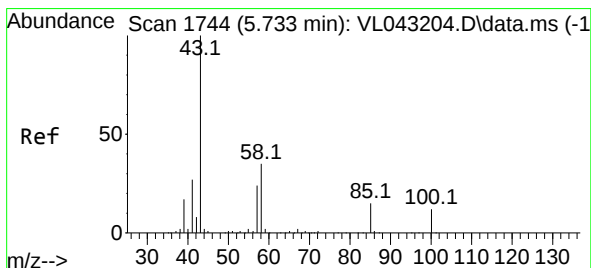
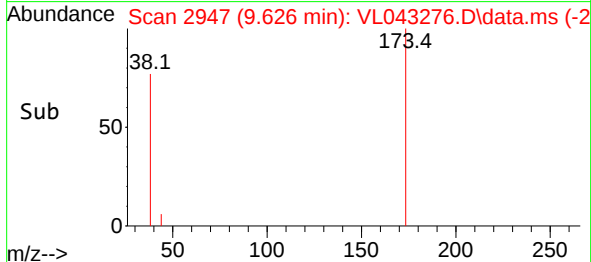
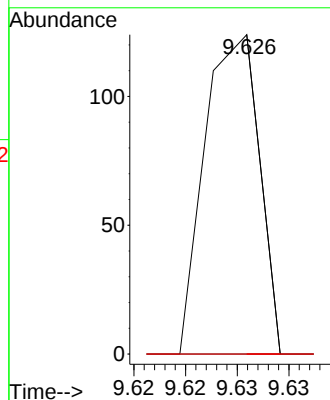
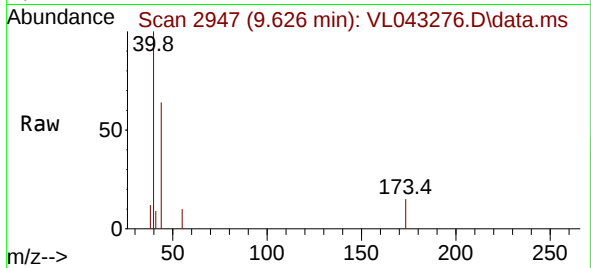




#49
Bromoform
Concen: 0.003 ppbv
RT: 9.626 min Scan# 2900
Delta R.T. 0.152 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

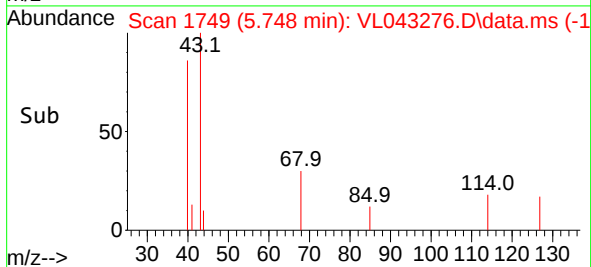
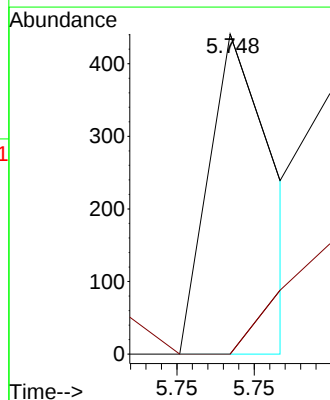
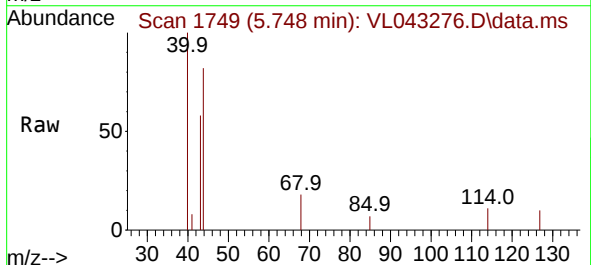
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

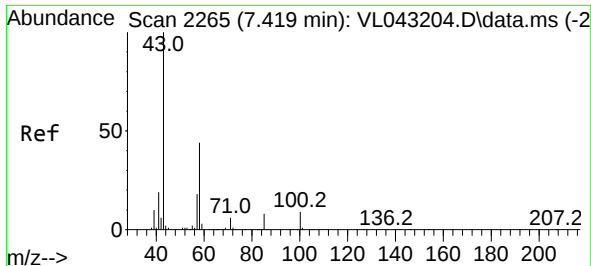
Tgt Ion:173 Resp: 45
Ion Ratio Lower Upper
173 100
175 0.0 38.6 58.0#
171 0.0 40.6 61.0#



#50
4-Methyl-2-Pentanone
Concen: 0.005 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. 0.016 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 43 Resp: 132
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#

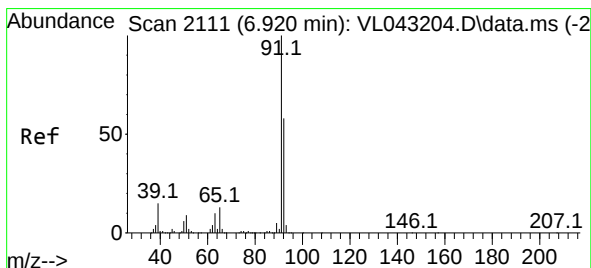
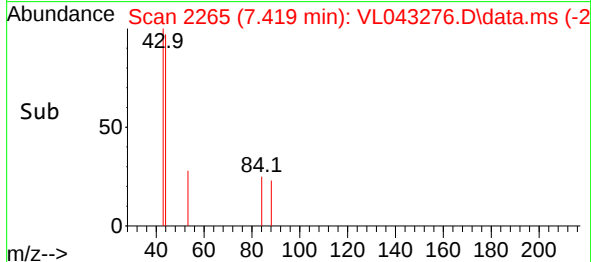
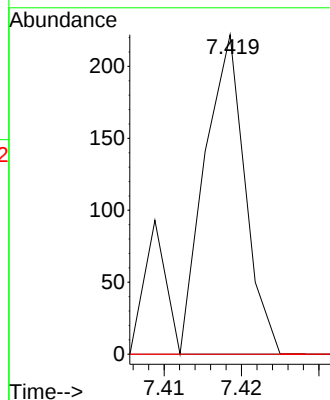
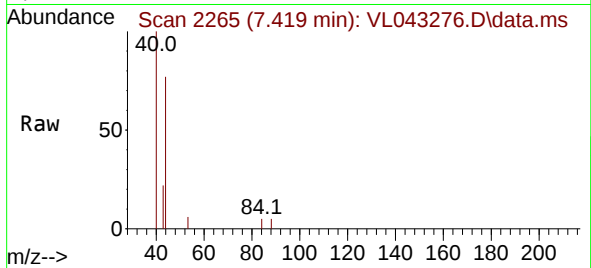




#51
2-Hexanone
Concen: 0.004 ppbv
RT: 7.419 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

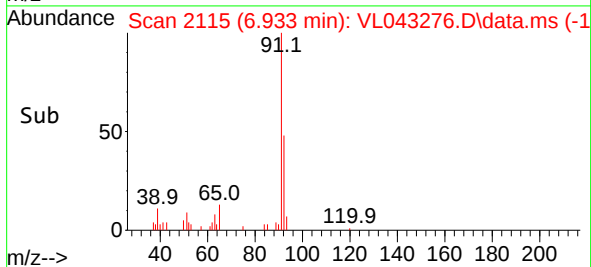
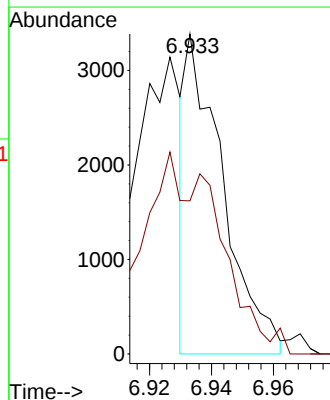
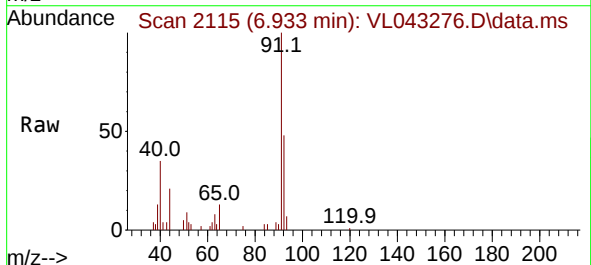
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

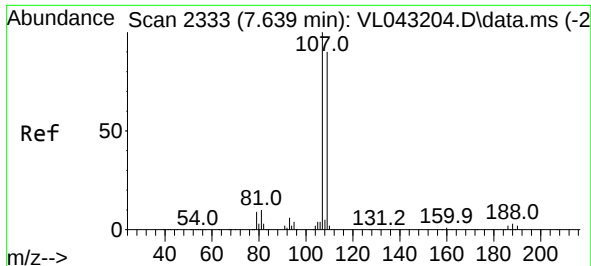
Tgt Ion: 43 Resp: 80
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 0.0 0.0 0.0



#53
Toluene
Concen: 0.094 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.013 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 91 Resp: 2800
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0#





#54

1,2-Dibromoethane

Concen: 0.002 ppbv

RT: 7.907 min Scan# 2416

Delta R.T. 0.268 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_L

ClientSampleId :

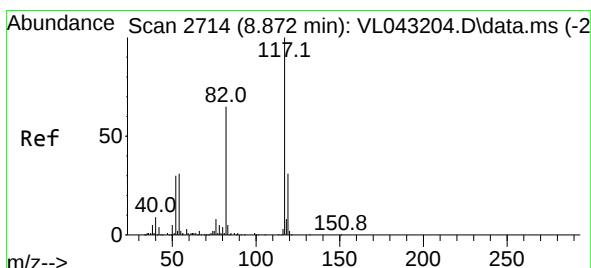
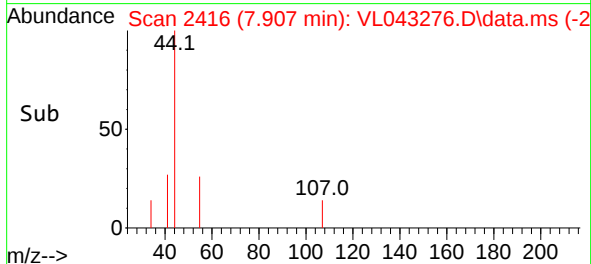
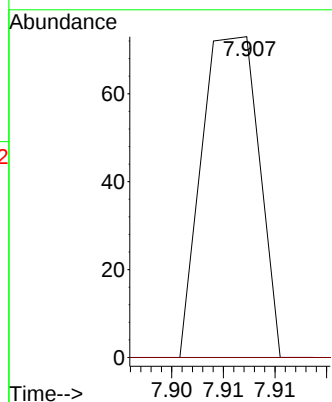
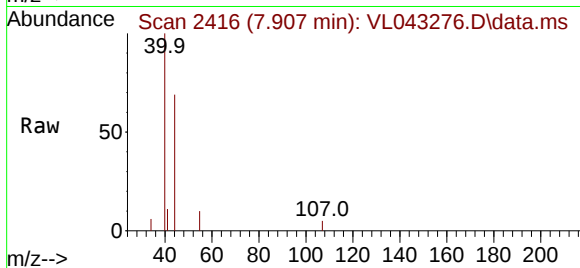
OA1DUP

Tgt Ion:107 Resp: 28

Ion Ratio Lower Upper

107 100

109 0.0 72.1 108.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2716

Delta R.T. 0.006 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

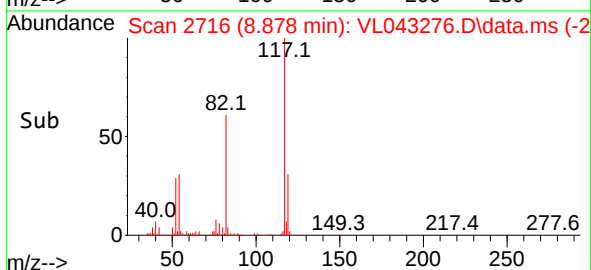
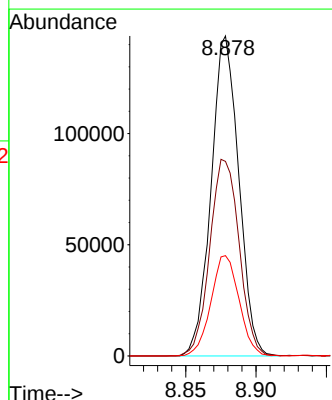
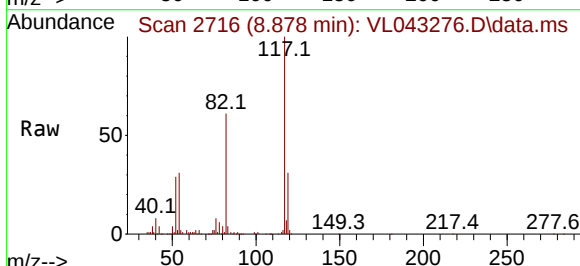
Tgt Ion:117 Resp: 196980

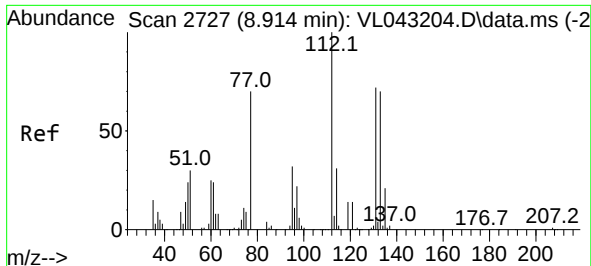
Ion Ratio Lower Upper

117 100

82 65.3 56.1 84.1

119 32.0 25.0 37.6

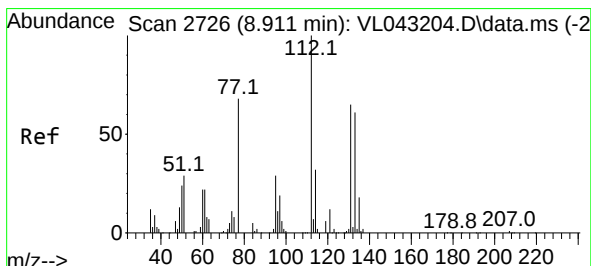
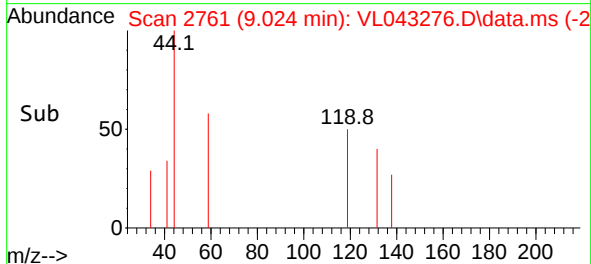
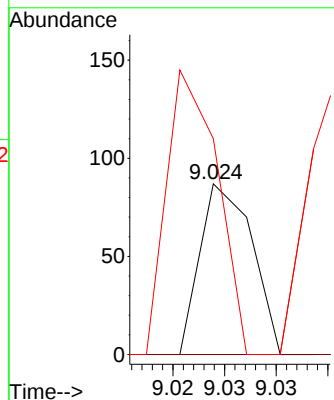
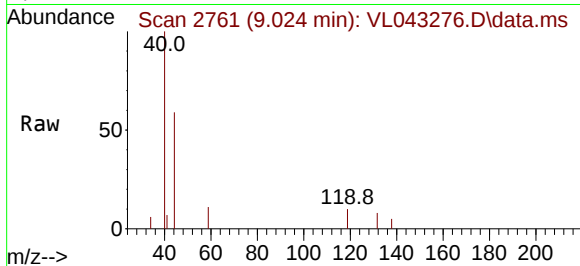




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.002 ppbv
 RT: 9.024 min Scan# 21
 Delta R.T. 0.110 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

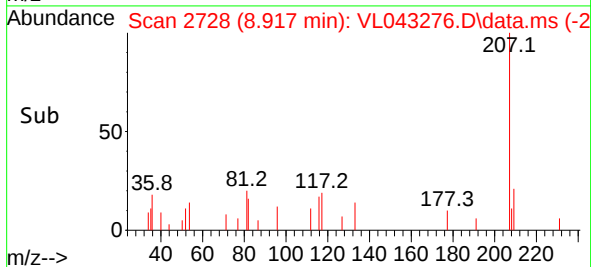
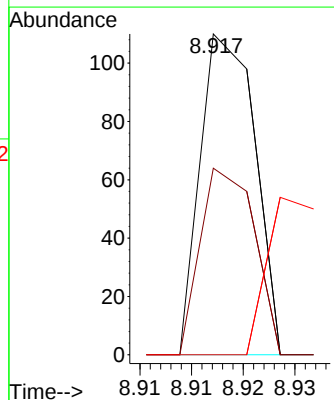
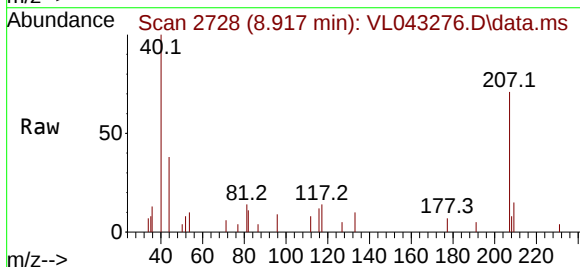
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

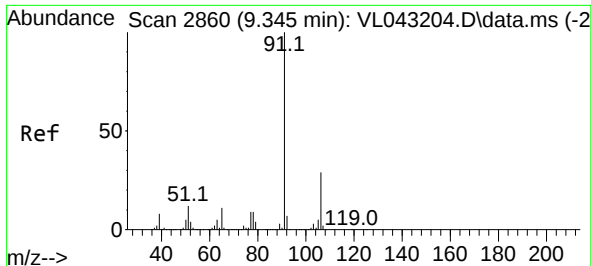
Tgt Ion:131 Resp: 31
 Ion Ratio Lower Upper
 131 100
 133 2216.1 77.4 116.2#
 119 203180.6 49.1 73.7#



#57
 Chlorobenzene
 Concen: 0.002 ppbv
 RT: 8.917 min Scan# 2728
 Delta R.T. 0.006 min
 Lab File: VL043276.D
 Acq: 21 Nov 2025 08:28

Tgt Ion:112 Resp: 40
 Ion Ratio Lower Upper
 112 100
 77 58.2 55.5 83.3
 114 0.0 29.1 35.5#

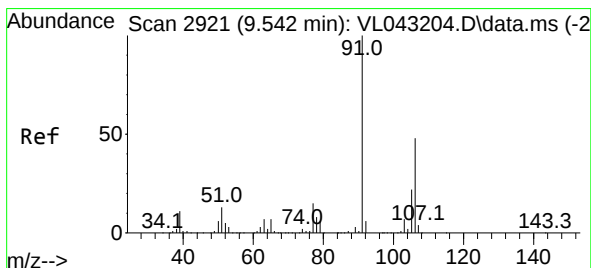
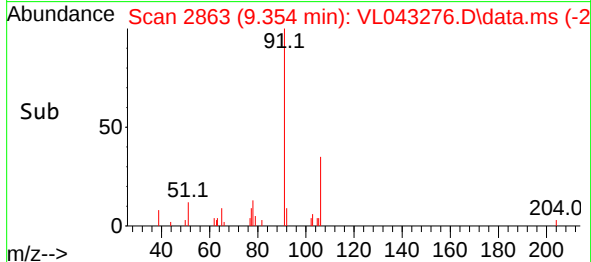
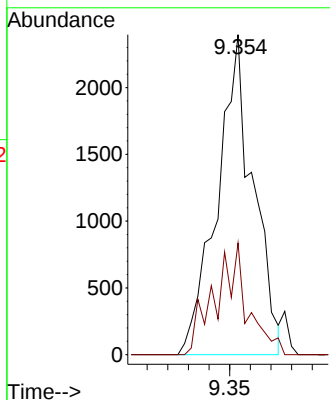
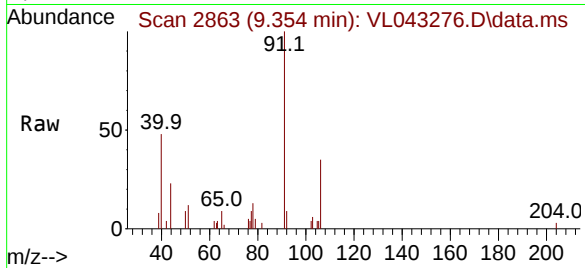




#58
Ethyl Benzene
Concen: 0.076 ppbv
RT: 9.354 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

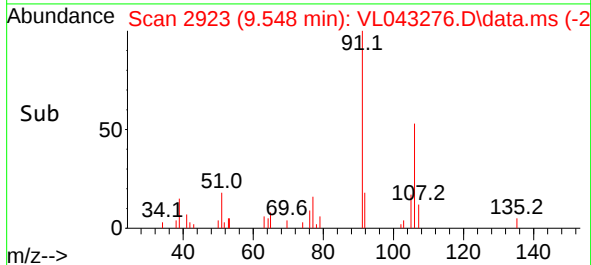
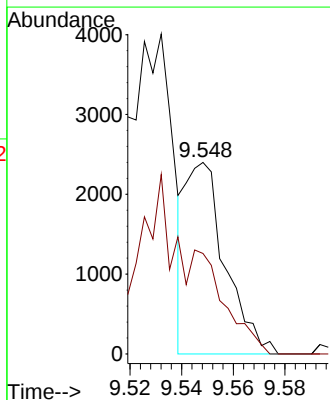
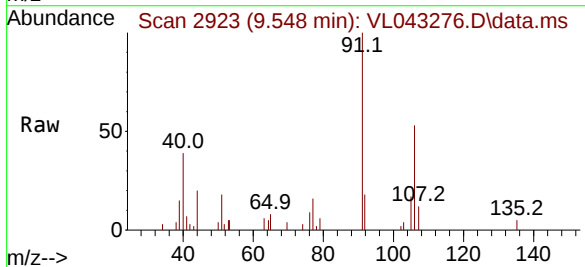
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

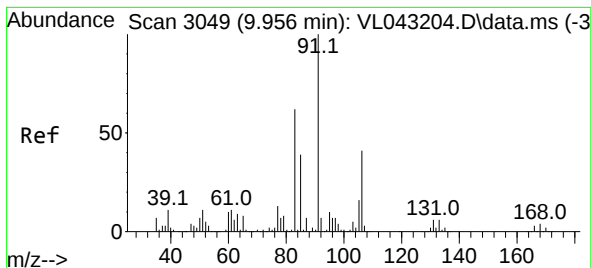
Tgt Ion: 91 Resp: 2894
Ion Ratio Lower Upper
91 100
106 34.9 22.8 34.2#



#59
m/p-Xylene
Concen: 0.085 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. 0.006 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 91 Resp: 2569
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#





#60

o-Xylene

Concen: 0.089 ppbv

RT: 9.959 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_1

ClientSampleId :

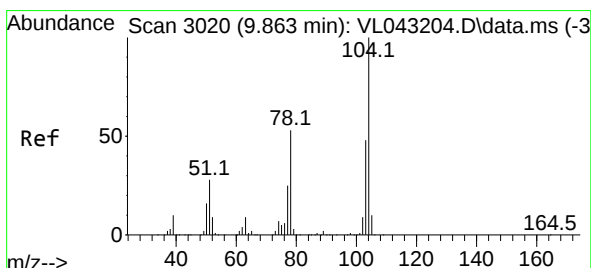
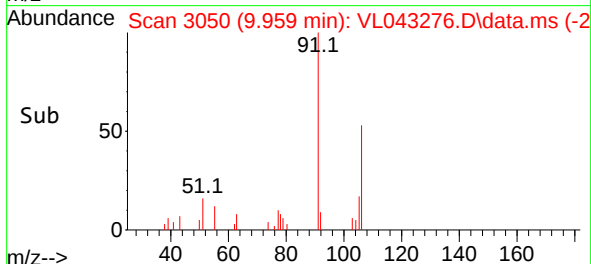
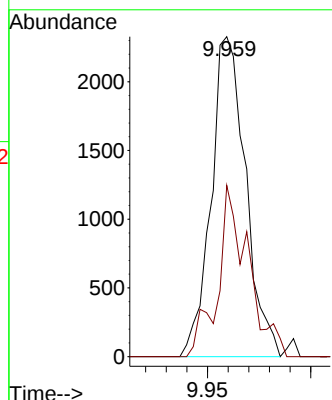
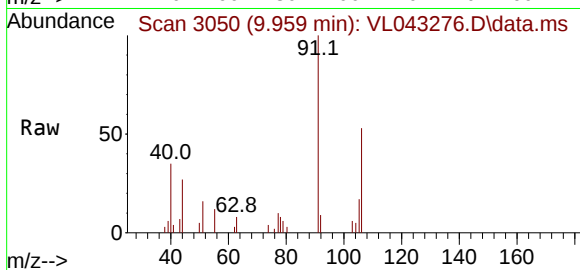
OA1DUP

Tgt Ion: 91 Resp: 2700

Ion Ratio Lower Upper

91 100

106 47.7 20.9 62.8



#61

Styrene

Concen: 0.014 ppbv

RT: 9.869 min Scan# 3022

Delta R.T. 0.006 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

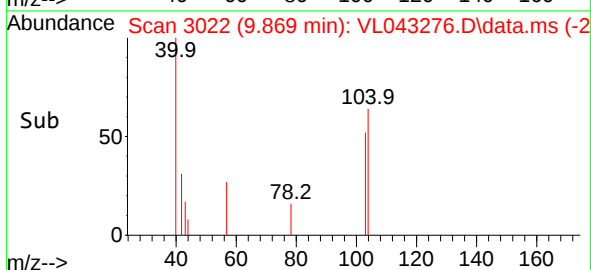
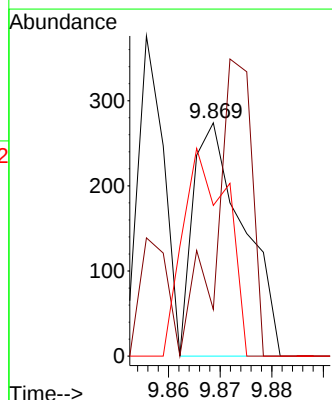
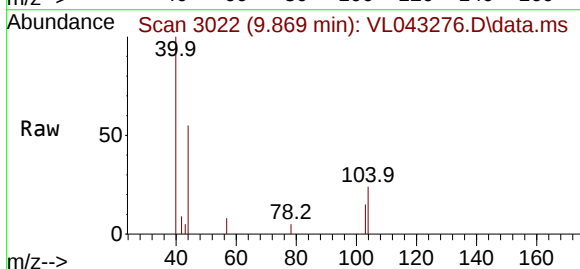
Tgt Ion: 104 Resp: 186

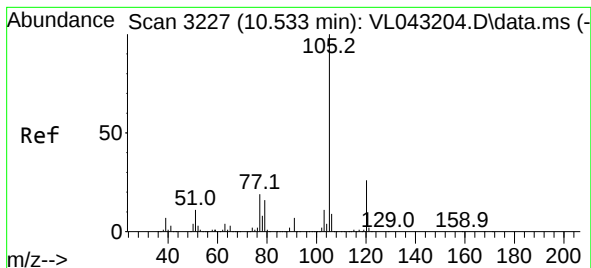
Ion Ratio Lower Upper

104 100

78 117.2 42.1 63.1#

103 78.5 37.2 55.8#





#62

Isopropylbenzene

Concen: 0.004 ppbv

RT: 10.535 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_L

ClientSampleId :

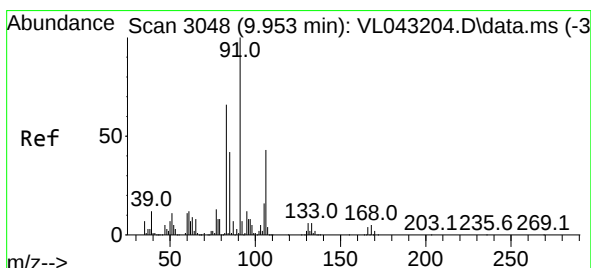
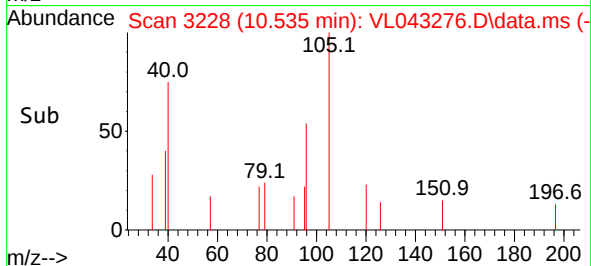
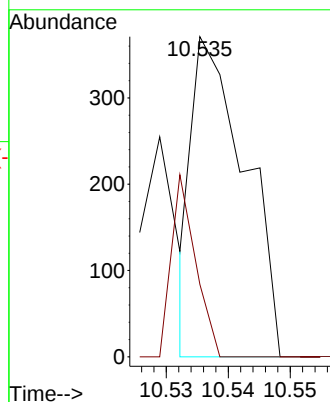
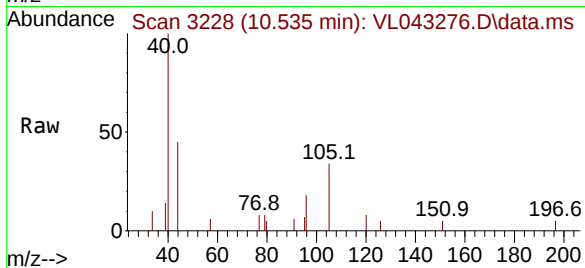
OA1DUP

Tgt Ion:105 Resp: 220

Ion Ratio Lower Upper

105 100

120 25.9 19.8 29.8



#63

1,1,2,2-Tetrachloroethane

Concen: 0.002 ppbv

RT: 9.988 min Scan# 3059

Delta R.T. 0.035 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

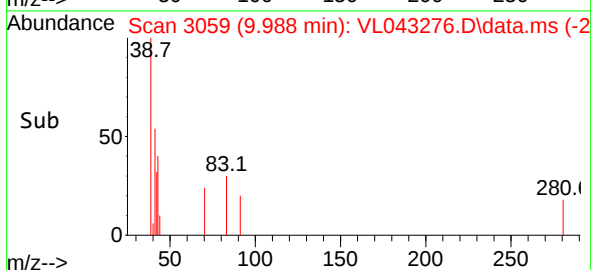
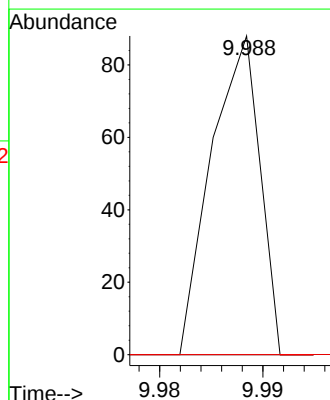
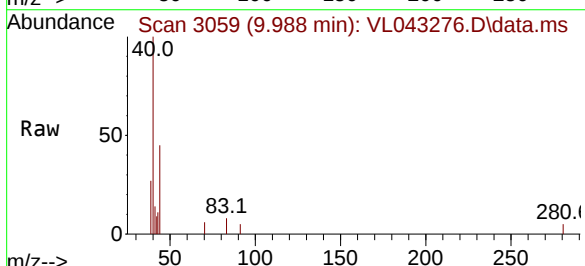
Tgt Ion: 83 Resp: 29

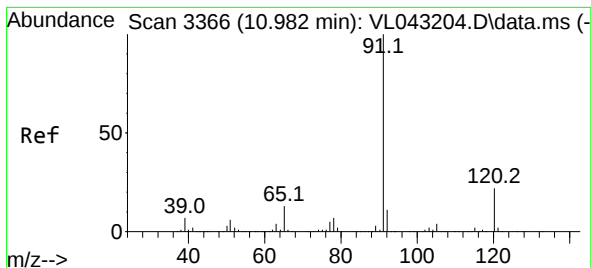
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 0.0 31.9 95.9#

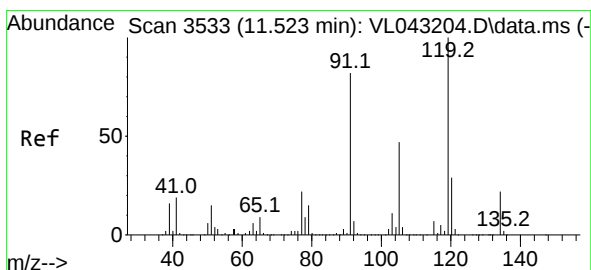
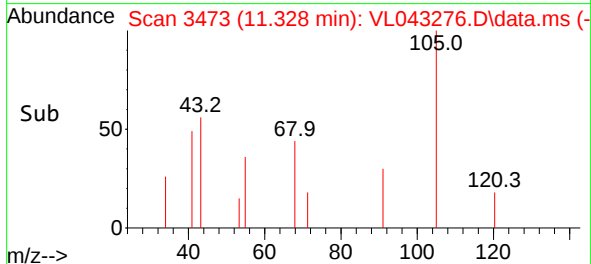
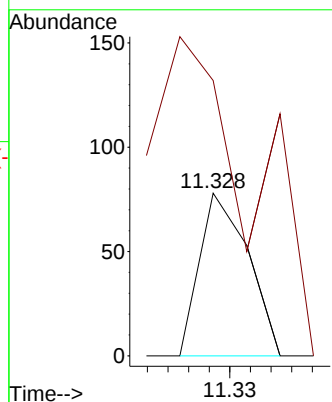
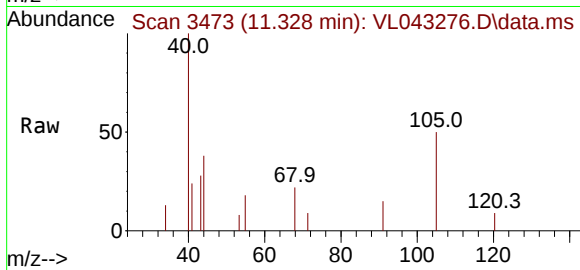




#64
n-propylbenzene
Concen: 0.002 ppbv
RT: 11.328 min Scan# 34
Delta R.T. 0.346 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

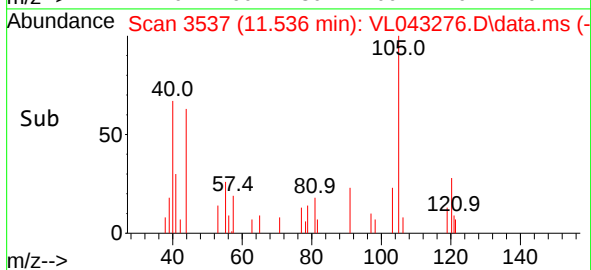
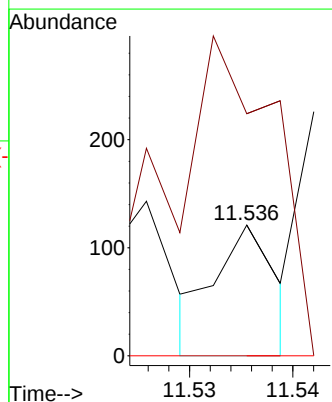
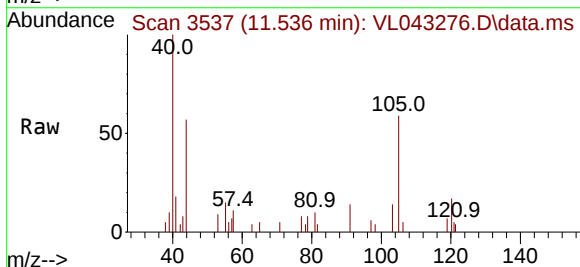
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

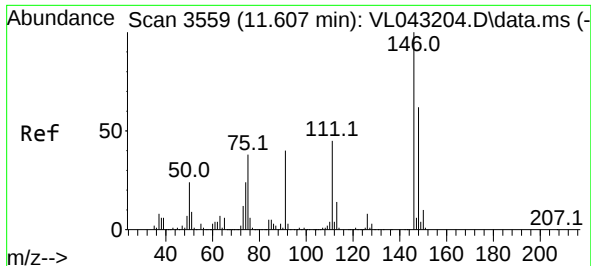
Tgt Ion:120 Resp: 25
Ion Ratio Lower Upper
120 100
91 424.0 377.1 565.7



#65
tert-Butylbenzene
Concen: 0.001 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.013 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion:119 Resp: 49
Ion Ratio Lower Upper
119 100
91 553.1 65.3 97.9#
134 0.0 17.0 25.4#

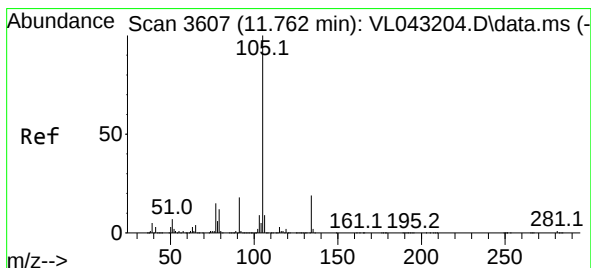
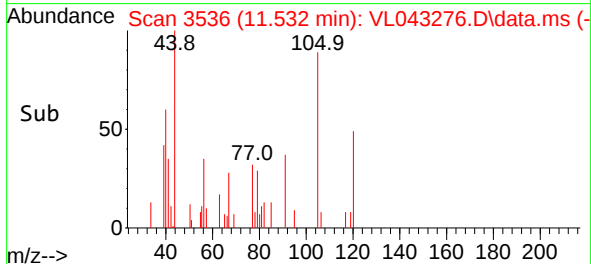
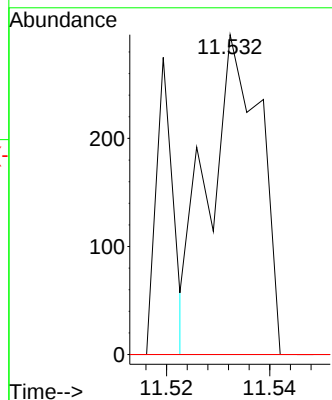
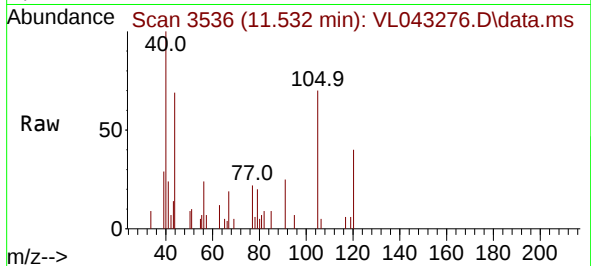




#66
Benzyl Chloride
Concen: 0.042 ppbv
RT: 11.532 min Scan# 311
Delta R.T. -0.075 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

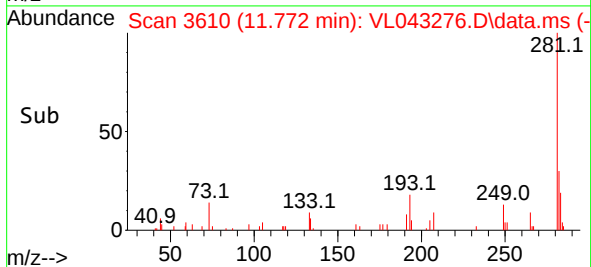
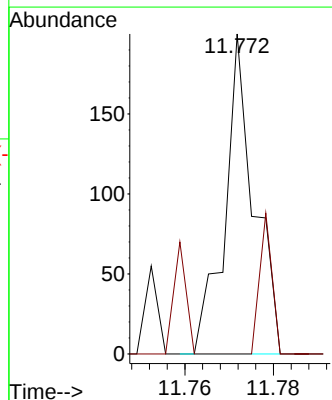
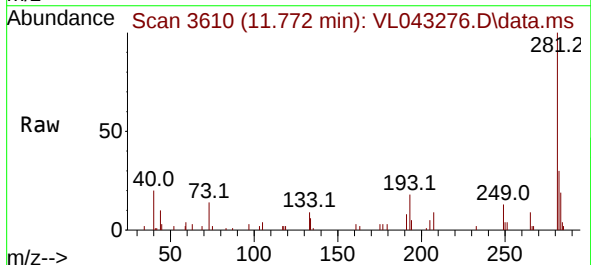
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

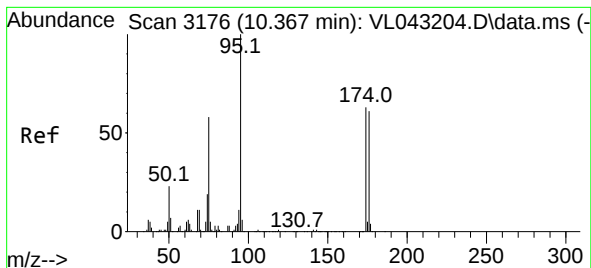
Tgt Ion: 91 Resp: 206
Ion Ratio Lower Upper
91 100
126 0.0 14.4 21.6#
128 0.0 4.6 6.8#



#67
sec-Butylbenzene
Concen: 0.001 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. 0.009 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 105 Resp: 92
Ion Ratio Lower Upper
105 100
134 33.7 15.0 22.6#

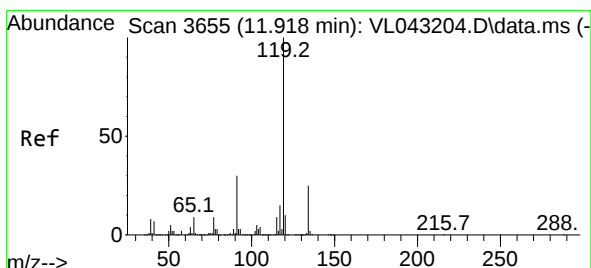
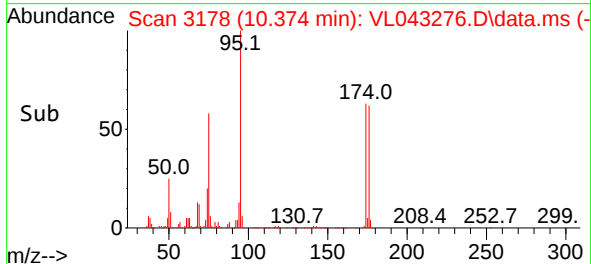
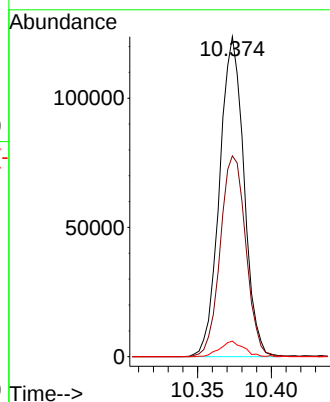
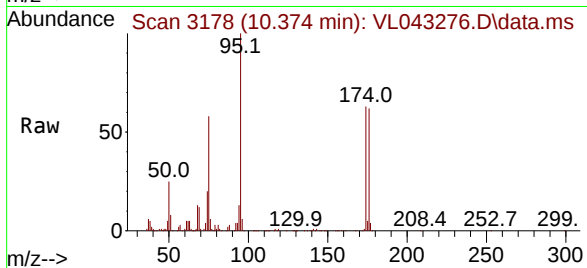




#68
1-Bromo-4-Fluorobenzene
Concen: 9.859 ppbv
RT: 10.374 min Scan# 3176
Delta R.T. 0.006 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

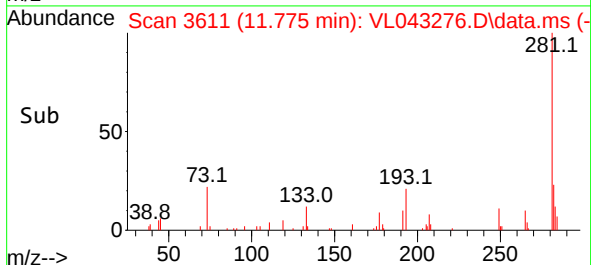
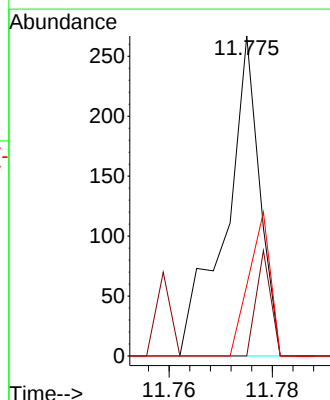
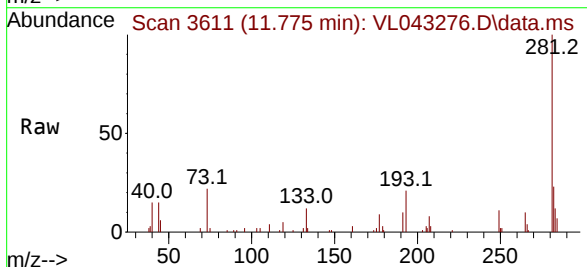
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

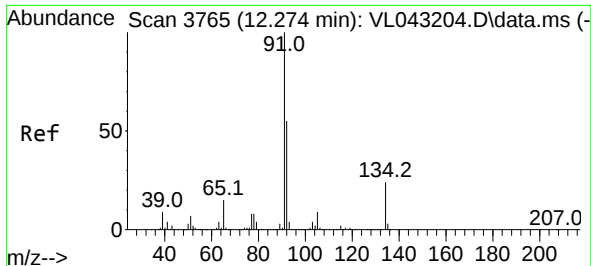
Tgt Ion: 95 Resp: 142344
Ion Ratio Lower Upper
95 100
174 65.8 50.2 75.2
175 4.8 4.1 6.1



#69
p-Isopropyltoluene
Concen: 0.002 ppbv
RT: 11.775 min Scan# 3611
Delta R.T. -0.143 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 119 Resp: 122
Ion Ratio Lower Upper
119 100
134 25.4 20.2 30.2
91 28.7 23.8 35.8

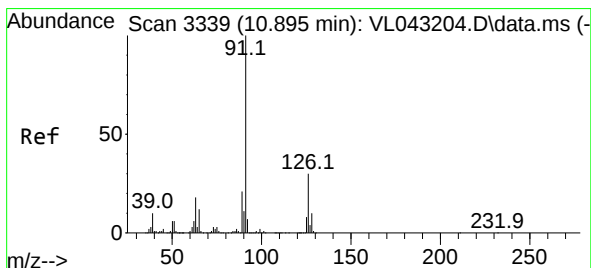
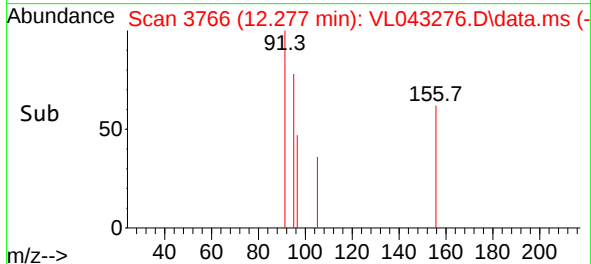
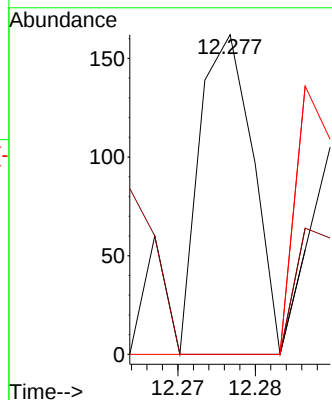
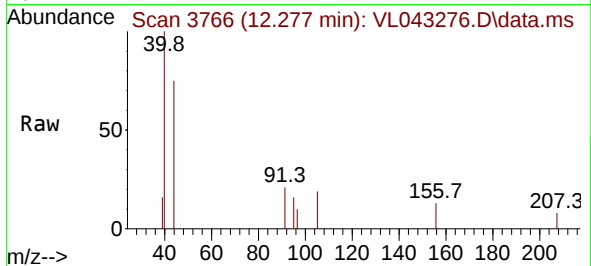




#70
n-Butylbenzene
Concen: 0.001 ppbv
RT: 12.277 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

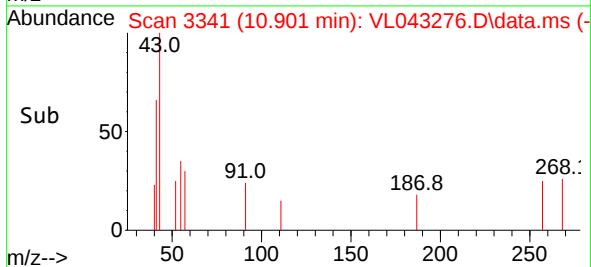
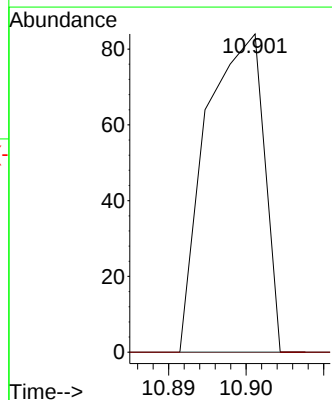
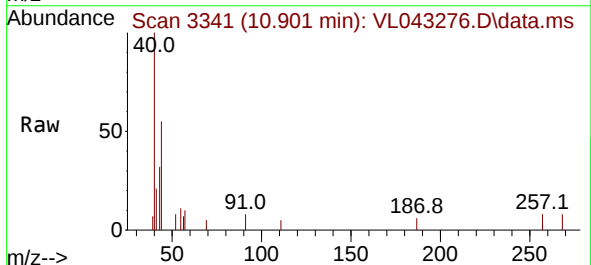
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

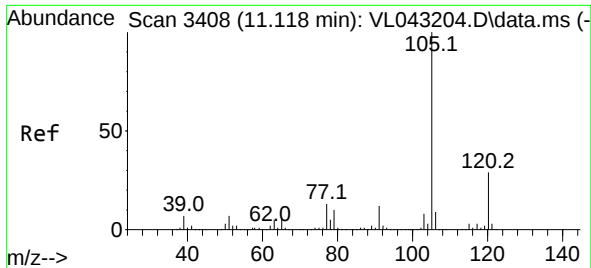
Tgt Ion: 91 Resp: 77
Ion Ratio Lower Upper
91 100
92 0.0 43.5 65.3#
134 0.0 19.0 28.6#



#71
2-Chlorotoluene
Concen: 0.001 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.006 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion: 91 Resp: 43
Ion Ratio Lower Upper
91 100
126 0.0 11.7 46.7#

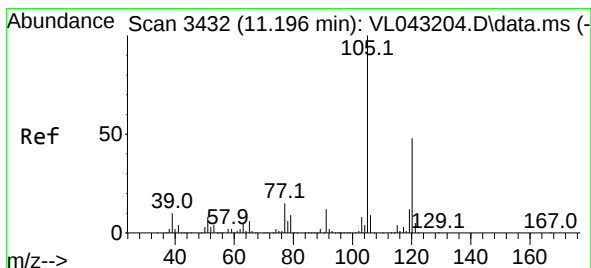
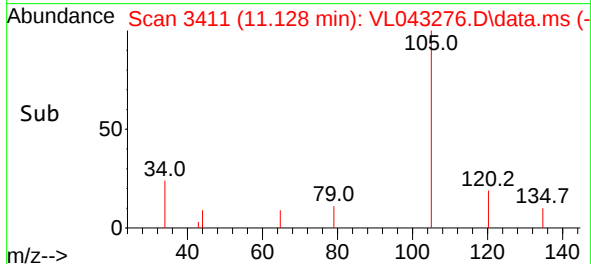
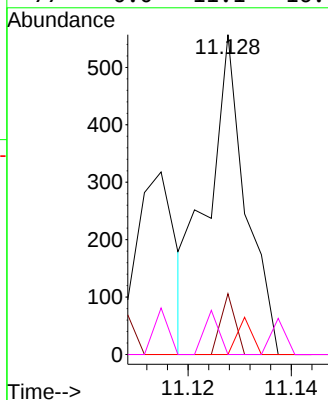
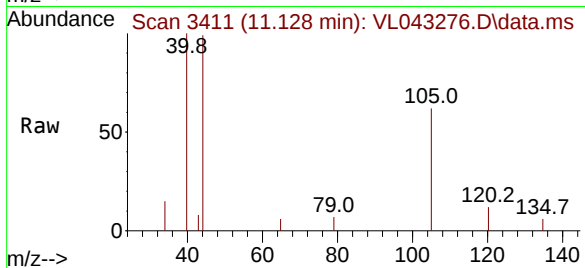




#72
4-Ethyltoluene
Concen: 0.008 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.009 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

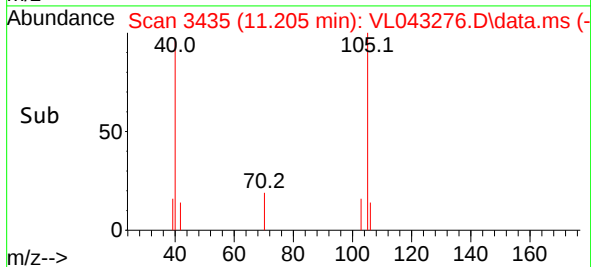
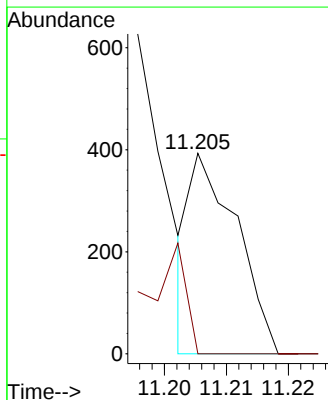
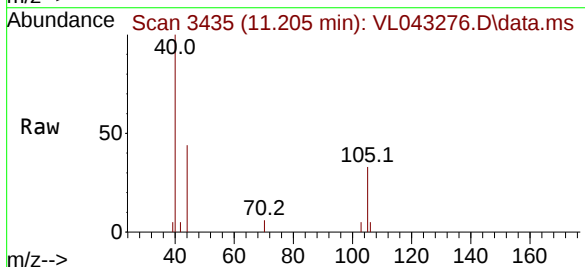
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

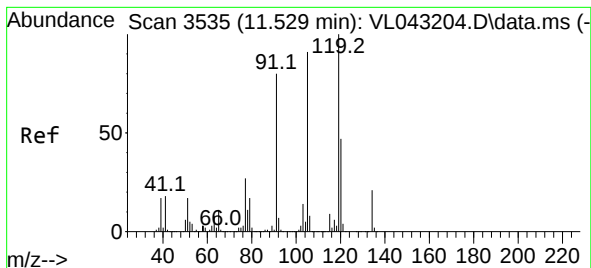
Tgt Ion:	105	Resp:	284
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.8	35.8#
91	0.0	10.3	15.5#
77	0.0	11.1	16.7#



#73
1,3,5-Trimethylbenzene
Concen: 0.007 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.009 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion:	105	Resp:	207
Ion	Ratio	Lower	Upper
105	100		
120	0.0	38.6	57.8#





#74

1,2,4-Trimethylbenzene

Concen: 0.016 ppbv

RT: 11.539 min Scan# 3535

Delta R.T. 0.009 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

Tgt Ion:105 Resp: 527

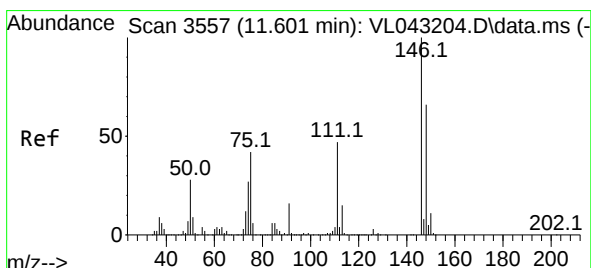
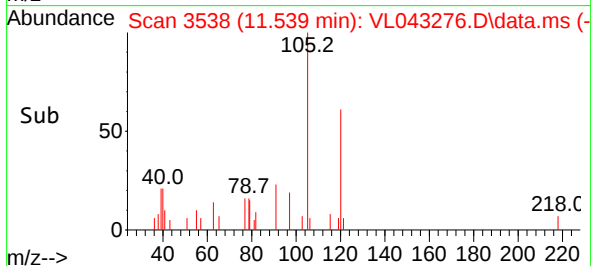
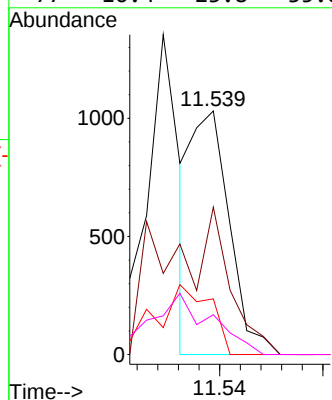
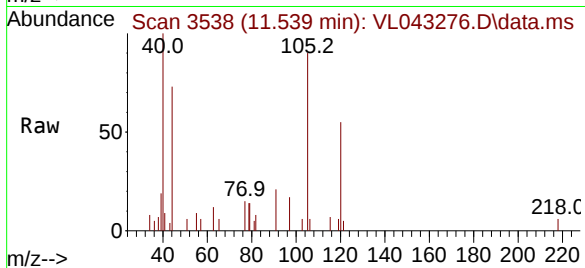
Ion Ratio Lower Upper

105 100

120 60.5 41.7 62.5

91 22.9 70.0 105.0#

77 16.4 23.8 35.8#



#75

1,3-Dichlorobenzene

Concen: 0.002 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. 0.071 min

Lab File: VL043276.D

Acq: 21 Nov 2025 08:28

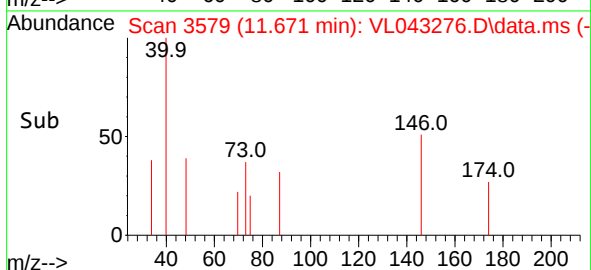
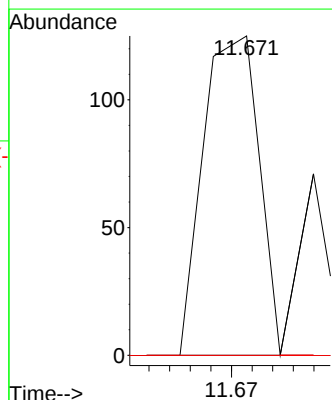
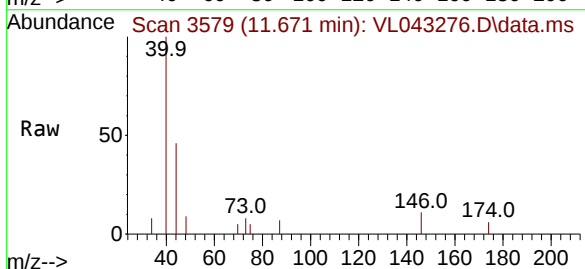
Tgt Ion:146 Resp: 47

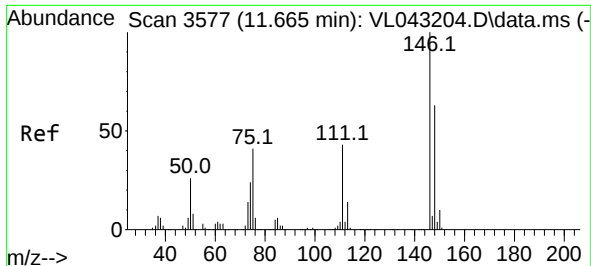
Ion Ratio Lower Upper

146 100

111 0.0 23.4 70.3#

148 0.0 31.6 95.0#

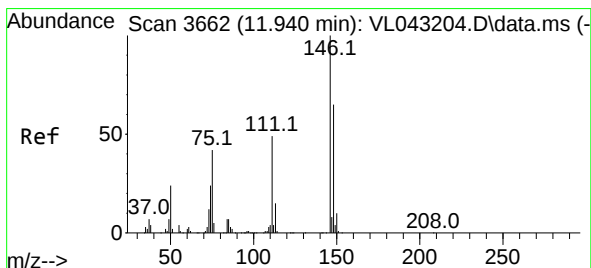
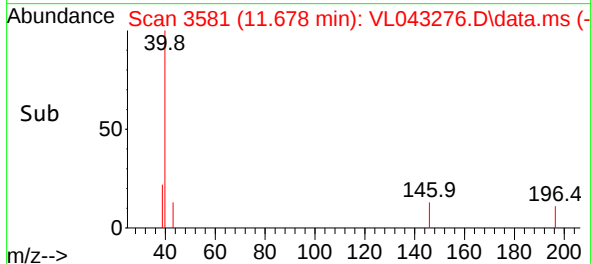
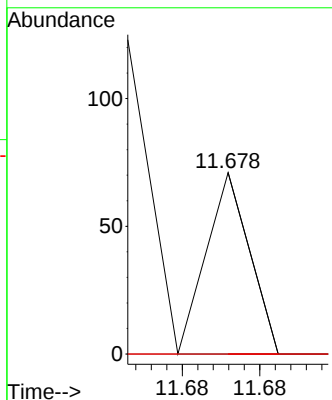
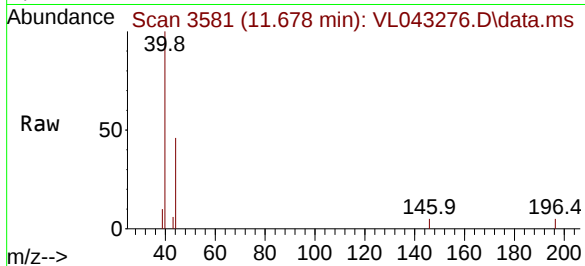




#76
1,4-Dichlorobenzene
Concen: 0.001 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.013 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

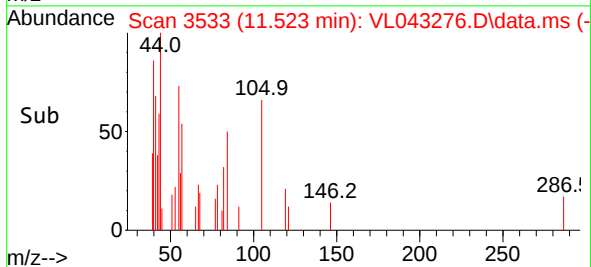
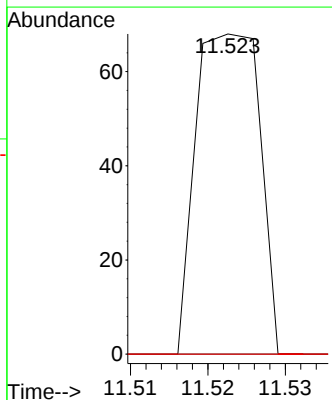
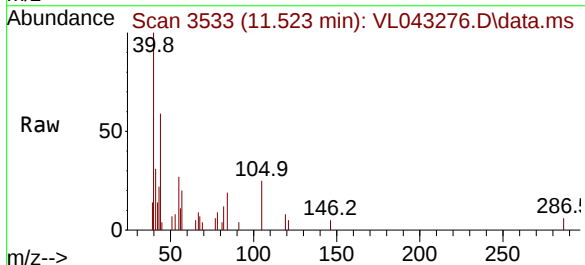
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

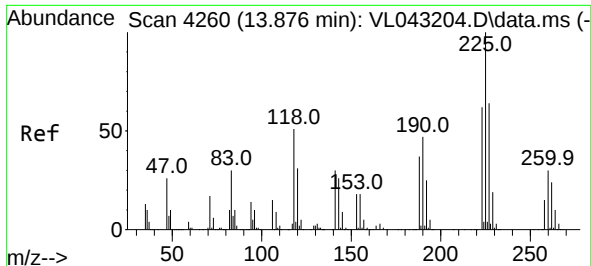
Tgt Ion:146 Resp: 14
Ion Ratio Lower Upper
146 100
111 0.0 22.8 68.3#
148 0.0 31.8 95.4#



#77
1,2-Dichlorobenzene
Concen: 0.002 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. -0.418 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion:146 Resp: 39
Ion Ratio Lower Upper
146 100
111 28.2 24.3 73.0
148 41.0 31.6 94.7

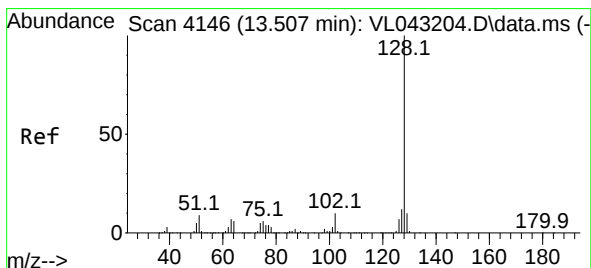
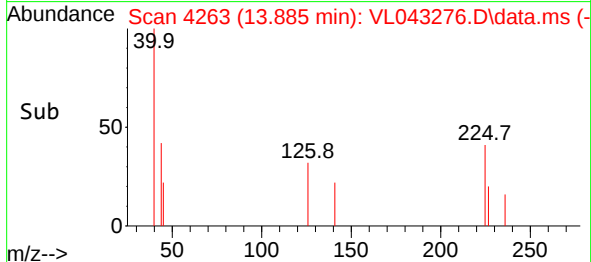
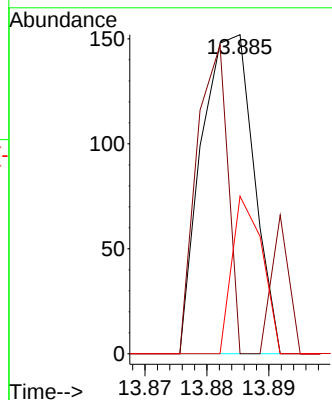
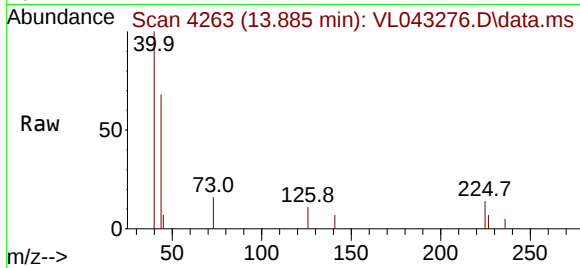




#78
Hexachloro-1,3-Butadiene
Concen: 0.006 ppbv
RT: 13.885 min Scan# 4150
Delta R.T. 0.009 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Tgt Ion:225 Resp: 89
Ion Ratio Lower Upper
225 100
223 71.9 50.2 75.4
227 28.1 51.1 76.7#



#79
Naphthalene
Concen: 0.012 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.013 min
Lab File: VL043276.D
Acq: 21 Nov 2025 08:28

Tgt Ion:128 Resp: 360
Ion Ratio Lower Upper
128 100
127 0.0 9.9 14.9#
129 0.0 8.4 12.6#

