

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012524\
 Data File : VL041031.D
 Acq On : 25 Jan 2024 15:56
 Operator : SY/MD
 Sample : P1187-15 MDL 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 26 00:28:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jan 26 00:23:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	989141	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2383915	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2026529	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1560156	10.193	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%

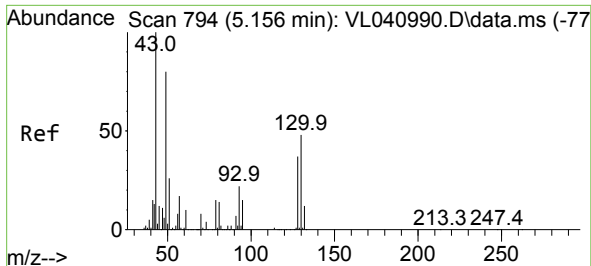
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.713	85	7863	0.036	ppbv	90
3) Chlorodifluoromethane	2.658	51	6766	0.041	ppbv #	84
4) Chloromethane	2.800	50	1372	0.022	ppbv #	42
5) Vinyl Chloride	2.906	62	1610	0.026	ppbv #	88
6) Bromomethane	3.105	94	861	0.032	ppbv #	52
7) Chloroethane	3.179	64	736	0.033	ppbv #	53
8) Dichlorotetrafluoroethane	2.841	85	6718	0.041	ppbv	86
9) Propene	2.674	41	1187	0.022	ppbv #	1
12) 1,1,2-Trichlorotrifluo...	4.060	101	2565	0.020	ppbv #	42
15) Acetone	3.485	43	13453	0.106	ppbv #	69
16) 1,3-Butadiene	2.967	39	1446	0.024	ppbv #	10
18) 1,1-Dichloroethene	3.867	96	1646	0.030	ppbv #	71
20) Methylene Chloride	3.915	84	3489	0.072	ppbv	92
21) Allyl Chloride	3.983	41	2446	0.032	ppbv #	1
22) trans-1,2-Dichloroethene	4.433	96	1579	0.028	ppbv #	54
24) 1,1-Dichloroethane	4.549	63	3593	0.031	ppbv #	89
26) Hexane	5.202	57	2126	0.022	ppbv #	1
27) Carbon Disulfide	4.112	76	4488	0.035	ppbv #	1
39) 1,2-Dichloropropane	6.636	63	624072	8.046	ppbv #	24
47) 1,1,2-Trichloroethane	8.889	97	1857	0.022	ppbv #	70

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

Instrument :
MSVOA_L
ClientSampleId :

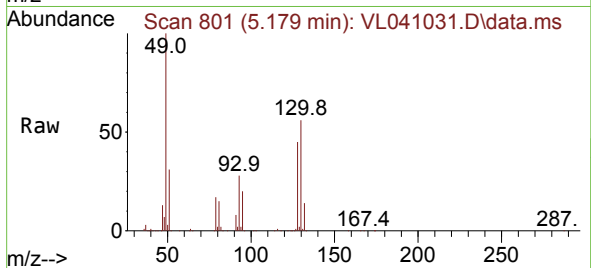
Instrument :
MSVOA_L
ClientSampleId :



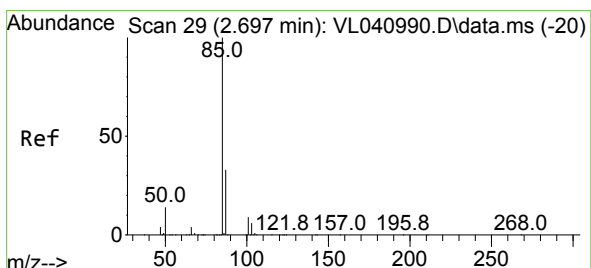
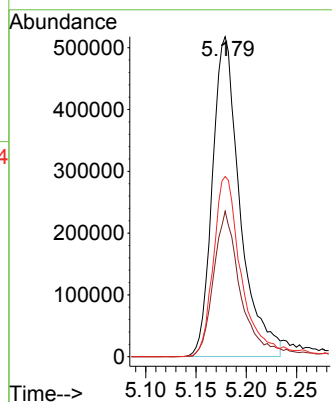
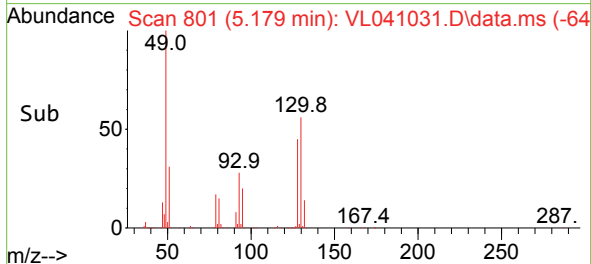


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.179 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VL041031.D
 Acq: 25 Jan 2024 15:56

Instrument :
 MSVOA_L
 ClientSampleId :

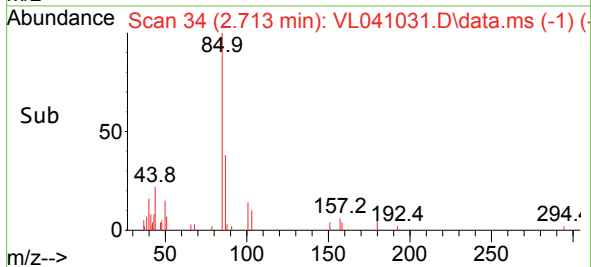
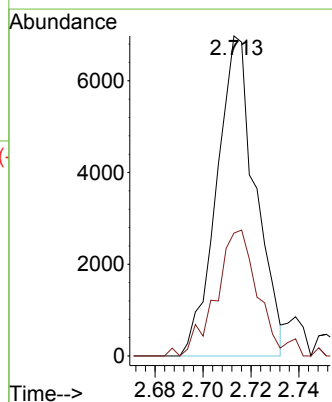
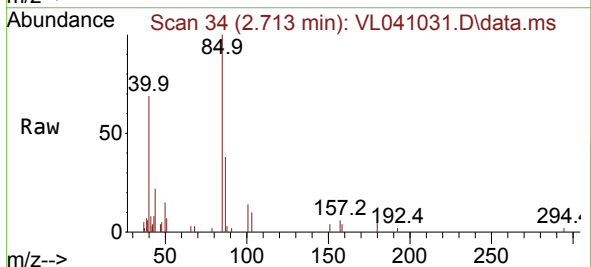


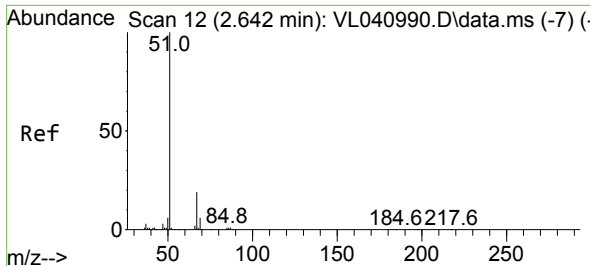
Tgt Ion: 49 Resp: 989141
 Ion Ratio Lower Upper
 49 100
 128 47.1 23.9 71.7
 130 59.9 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.036 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. -0.003 min
 Lab File: VL041031.D
 Acq: 25 Jan 2024 15:56

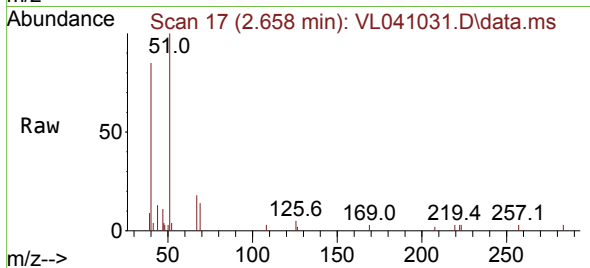
Tgt Ion: 85 Resp: 7863
 Ion Ratio Lower Upper
 85 100
 87 38.4 26.3 39.5



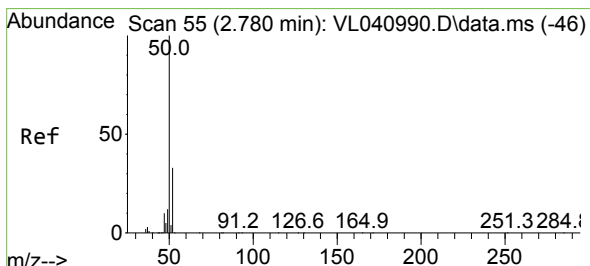
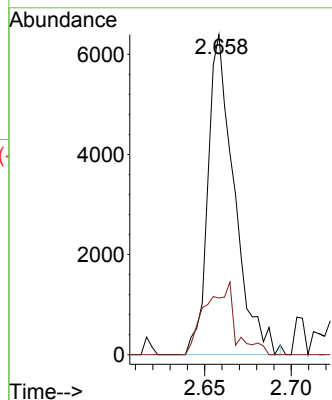
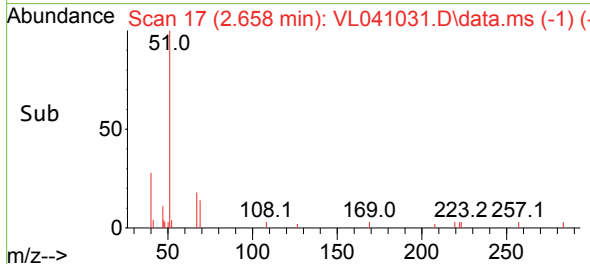


#3
Chlorodifluoromethane
Concen: 0.041 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Instrument :
MSVOA_L
ClientSampleId :

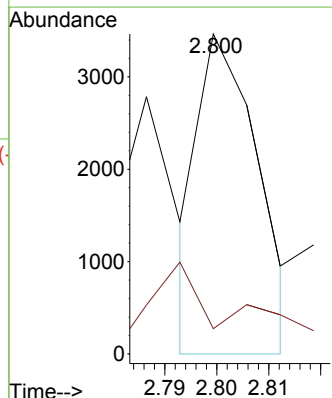
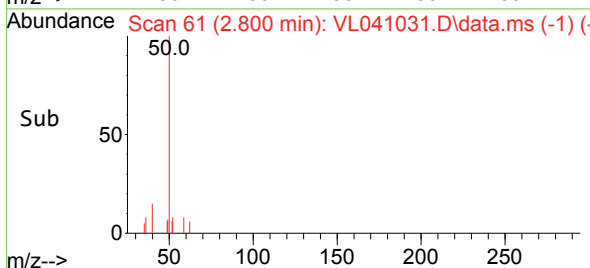
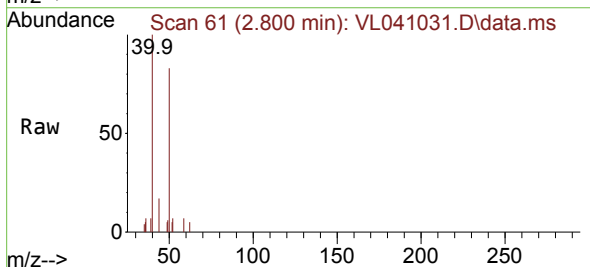


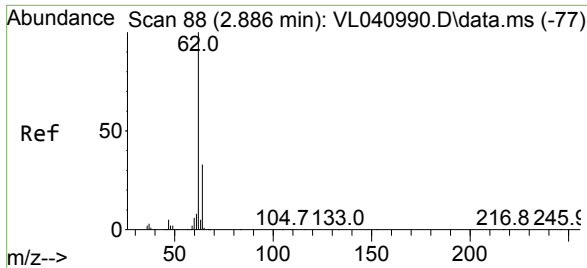
Tgt Ion: 51 Resp: 6766
Ion Ratio Lower Upper
51 100
67 25.7 14.8 22.2#



#4
Chloromethane
Concen: 0.022 ppbv
RT: 2.800 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Tgt Ion: 50 Resp: 1372
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.4#

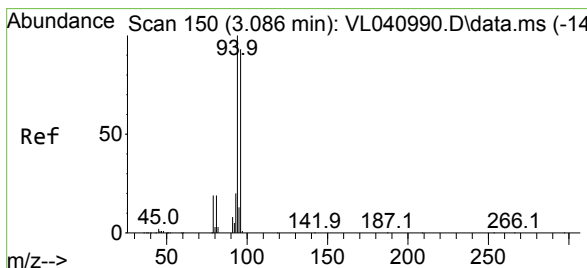
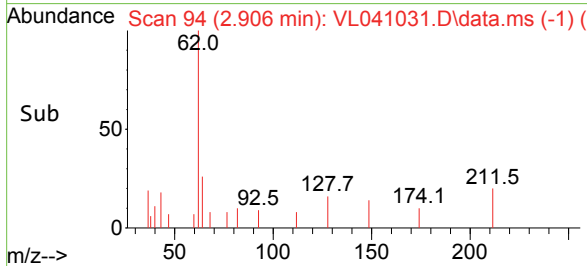
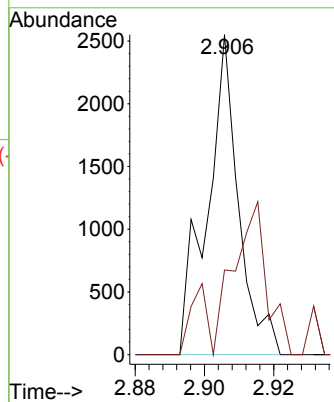
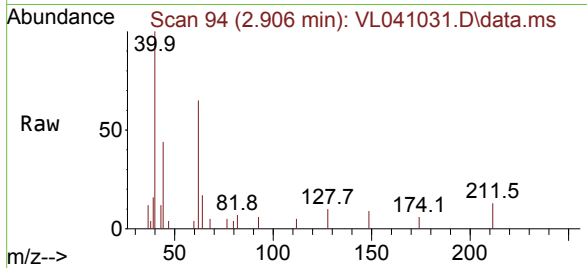




#5
Vinyl Chloride
Concen: 0.026 ppbv
RT: 2.906 min Scan# 94
Delta R.T. 0.000 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

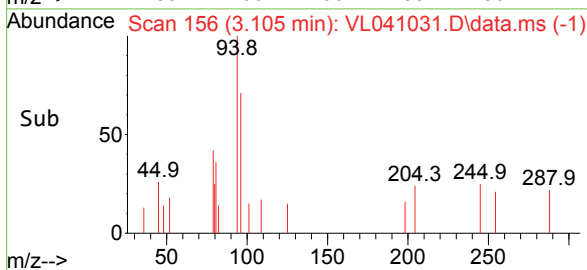
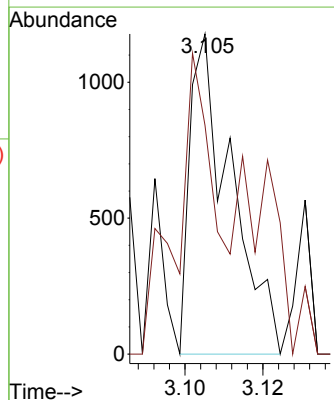
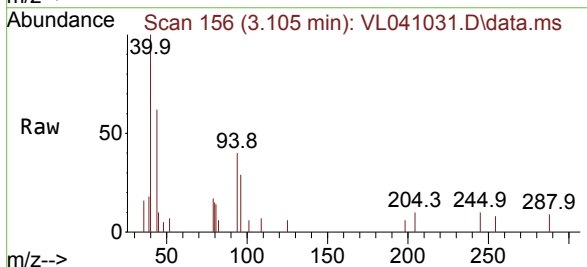
Instrument :
MSVOA_L
ClientSampleId :

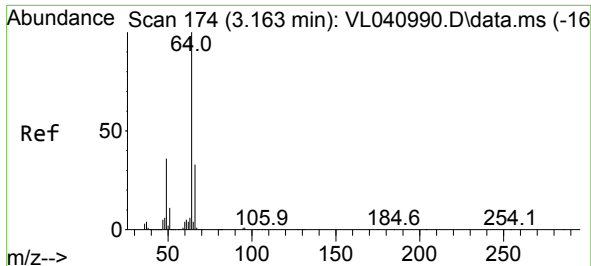
Tgt Ion: 62 Resp: 1610
Ion Ratio Lower Upper
62 100
64 26.5 26.6 40.0#



#6
Bromomethane
Concen: 0.032 ppbv
RT: 3.105 min Scan# 156
Delta R.T. 0.000 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Tgt Ion: 94 Resp: 861
Ion Ratio Lower Upper
94 100
96 46.4 74.2 111.4#

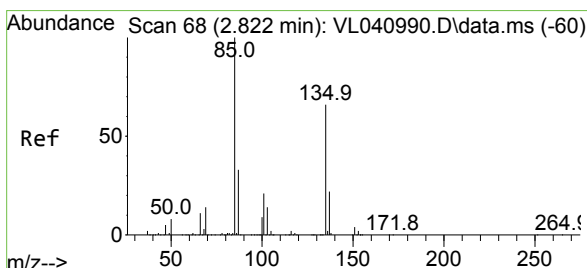
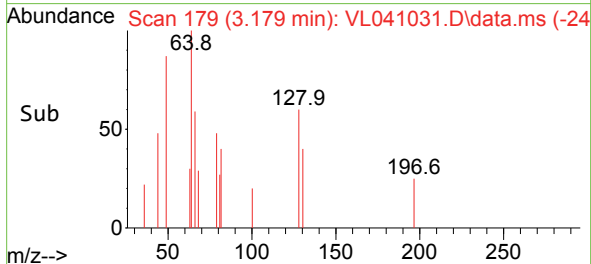
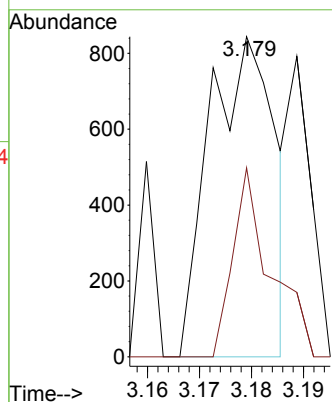
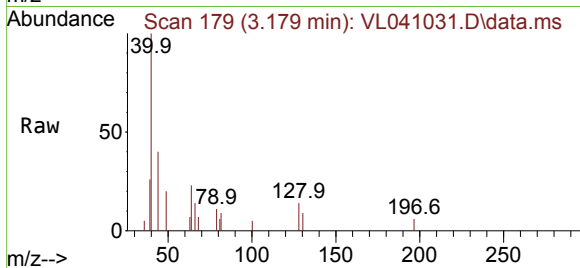




#7
Chloroethane
Concen: 0.033 ppbv
RT: 3.179 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

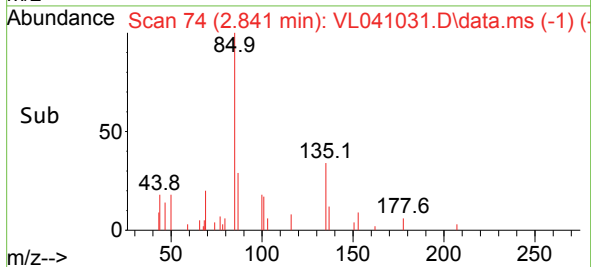
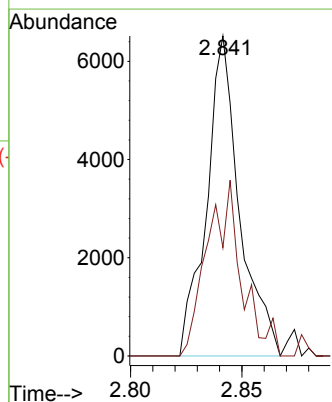
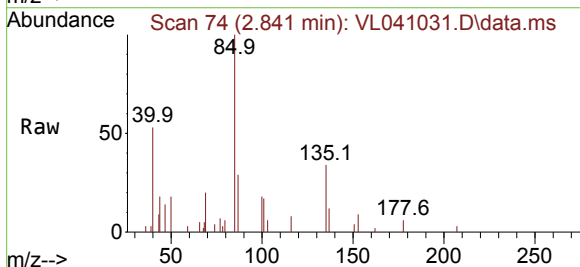
Instrument :
MSVOA_L
ClientSampleId :

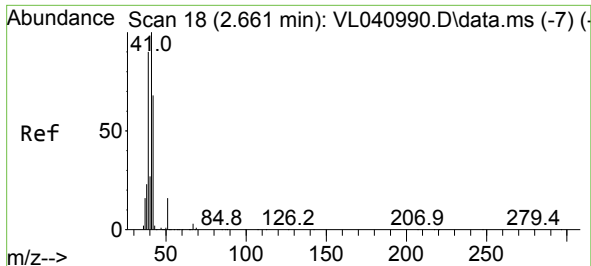
Tgt Ion: 64 Resp: 736
Ion Ratio Lower Upper
64 100
66 59.0 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 0.041 ppbv
RT: 2.841 min Scan# 74
Delta R.T. -0.003 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Tgt Ion: 85 Resp: 6718
Ion Ratio Lower Upper
85 100
135 57.3 55.0 82.6

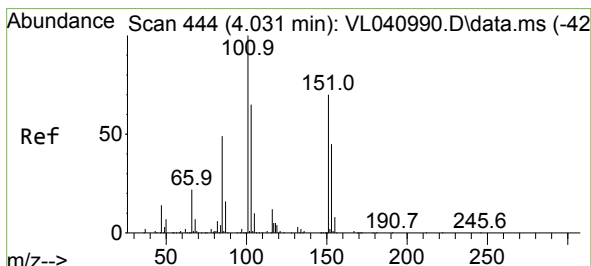
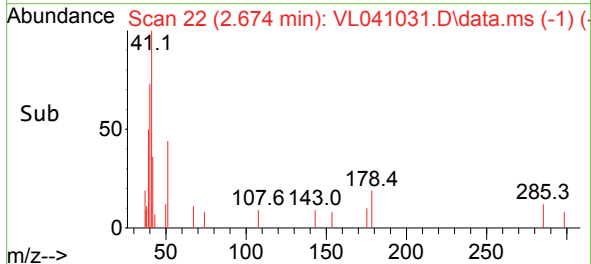
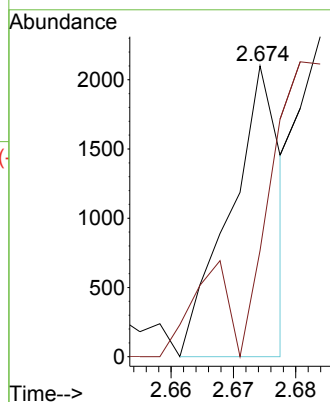
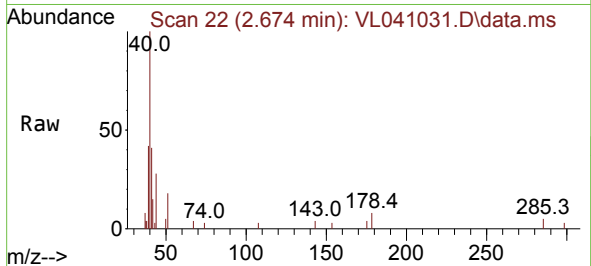




#9
Propene
Concen: 0.022 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

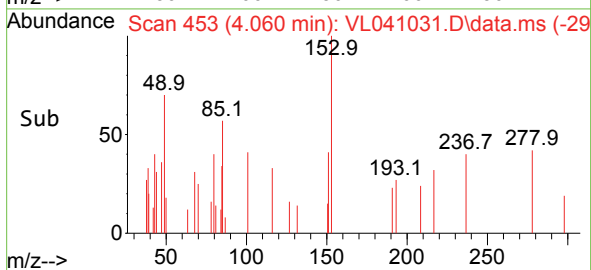
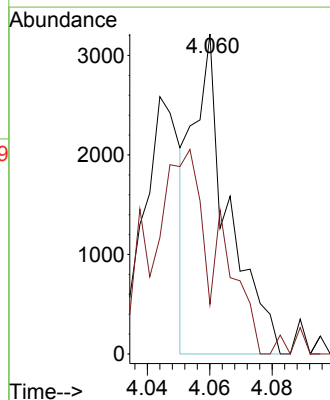
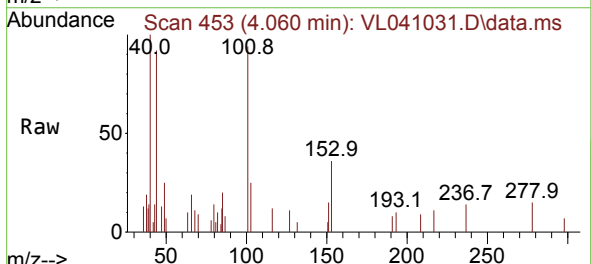
Instrument :
MSVOA_L
ClientSampleId :

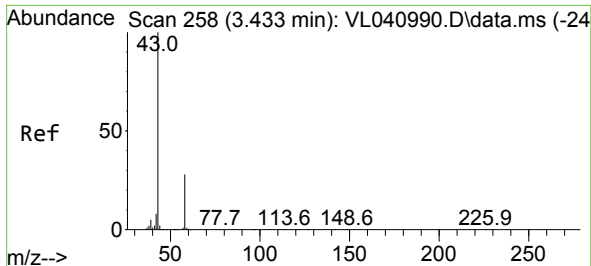
Tgt Ion: 41 Resp: 1187
Ion Ratio Lower Upper
41 100
42 258.6 59.0 88.4#



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.020 ppbv
RT: 4.060 min Scan# 453
Delta R.T. 0.006 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Tgt Ion: 101 Resp: 2565
Ion Ratio Lower Upper
101 100
151 118.6 56.6 85.0#





#15

Acetone

Concen: 0.106 ppbv

RT: 3.485 min Scan# 21

Delta R.T. 0.029 min

Lab File: VL041031.D

Acq: 25 Jan 2024 15:56

Instrument :

MSVOA_L

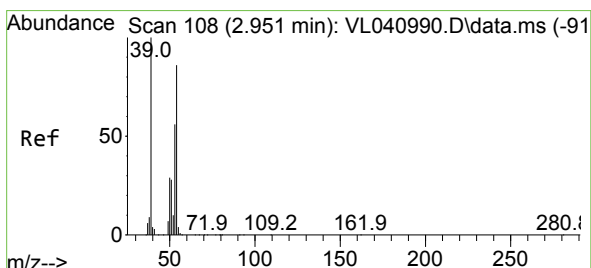
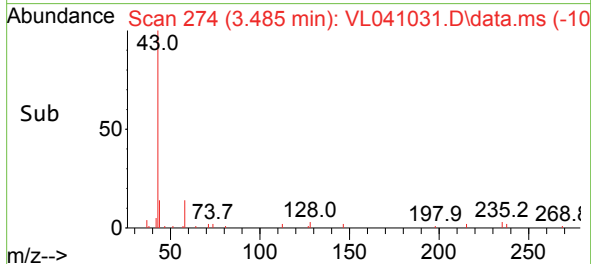
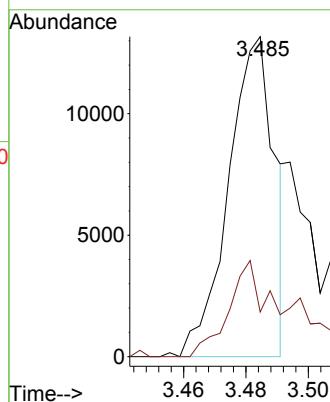
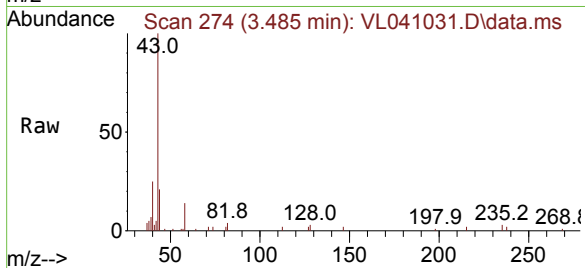
ClientSampleId :

Tgt Ion: 43 Resp: 13453

Ion Ratio Lower Upper

43 100

58 43.8 22.2 33.2#



#16

1,3-Butadiene

Concen: 0.024 ppbv

RT: 2.967 min Scan# 113

Delta R.T. -0.003 min

Lab File: VL041031.D

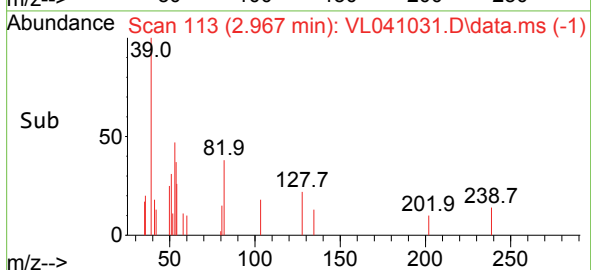
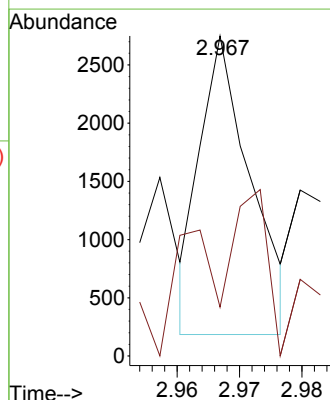
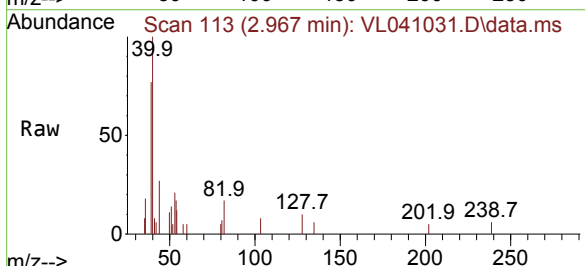
Acq: 25 Jan 2024 15:56

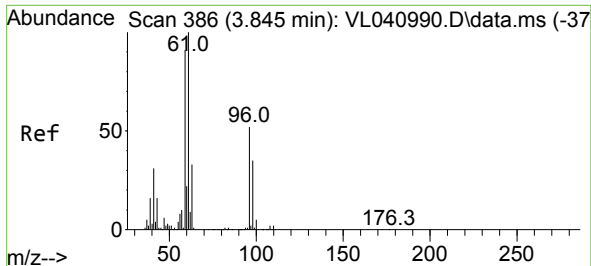
Tgt Ion: 39 Resp: 1446

Ion Ratio Lower Upper

39 100

54 0.0 62.7 94.1#

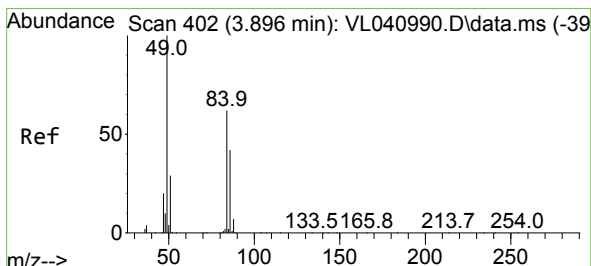
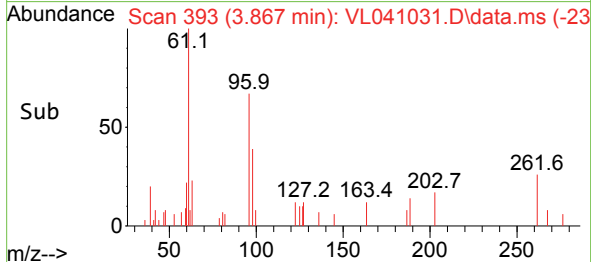
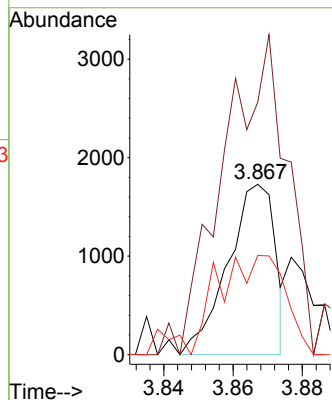
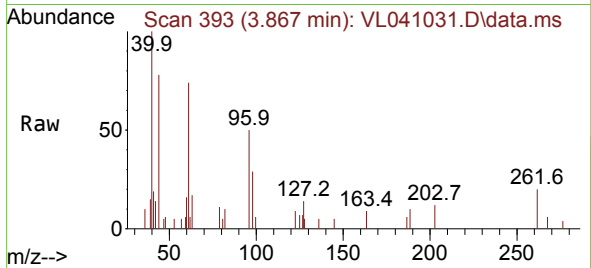




#18
1,1-Dichloroethene
Concen: 0.030 ppbv
RT: 3.867 min Scan# 393
Delta R.T. 0.000 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

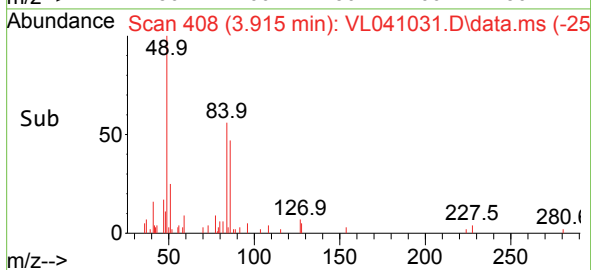
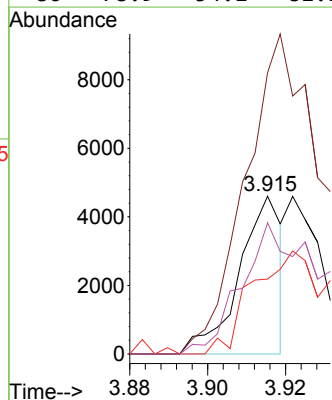
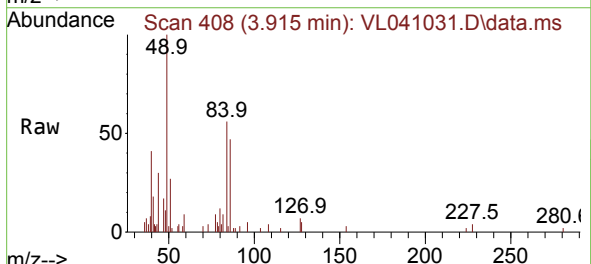
Instrument :
MSVOA_L
ClientSampleId :

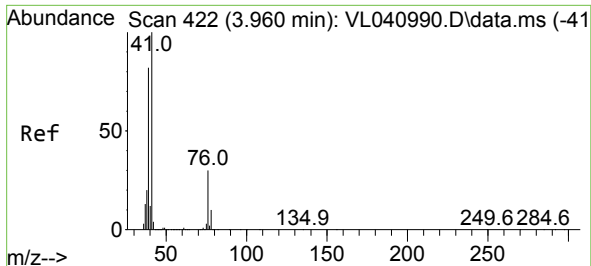
Tgt Ion: 96 Resp: 1646
Ion Ratio Lower Upper
96 100
61 148.2 153.8 230.8#
98 46.7 53.7 80.5#



#20
Methylene Chloride
Concen: 0.072 ppbv
RT: 3.915 min Scan# 408
Delta R.T. -0.003 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Tgt Ion: 84 Resp: 3489
Ion Ratio Lower Upper
84 100
49 168.9 128.1 192.1
51 45.0 36.5 54.7
86 78.9 54.1 81.1





#21

Allyl Chloride

Concen: 0.032 ppbv

RT: 3.983 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041031.D

Acq: 25 Jan 2024 15:56

Instrument :

MSVOA_L

ClientSampleId :

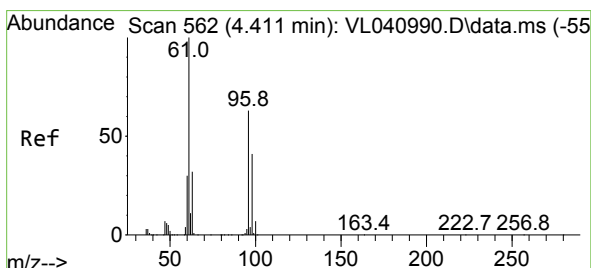
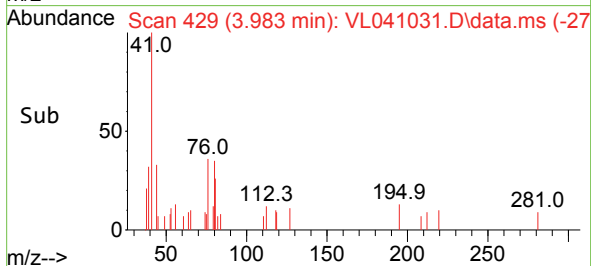
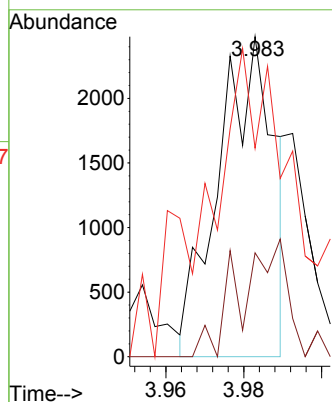
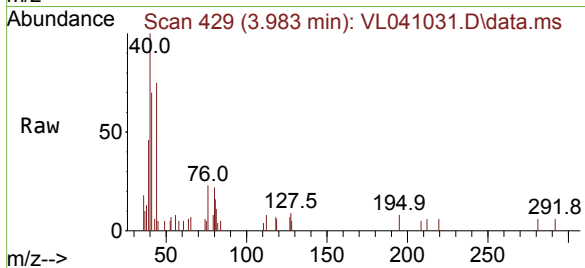
Tgt Ion: 41 Resp: 2446

Ion Ratio Lower Upper

41 100

76 0.0 25.0 37.4#

39 209.3 67.0 100.6#



#22

trans-1,2-Dichloroethene

Concen: 0.028 ppbv

RT: 4.433 min Scan# 569

Delta R.T. 0.000 min

Lab File: VL041031.D

Acq: 25 Jan 2024 15:56

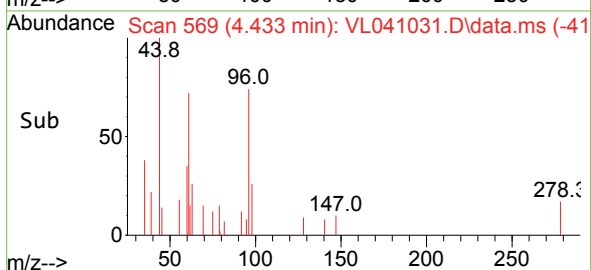
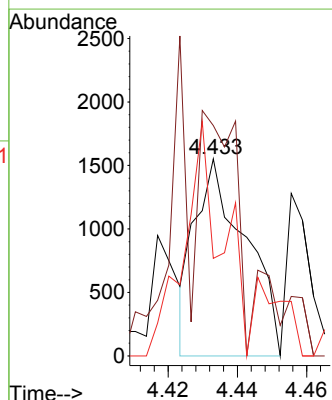
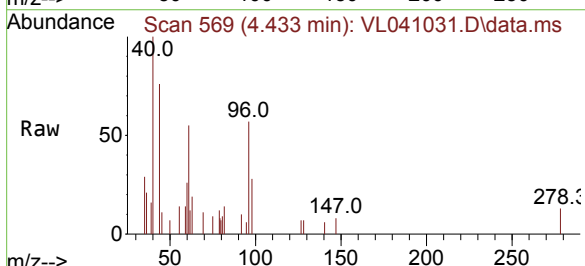
Tgt Ion: 96 Resp: 1579

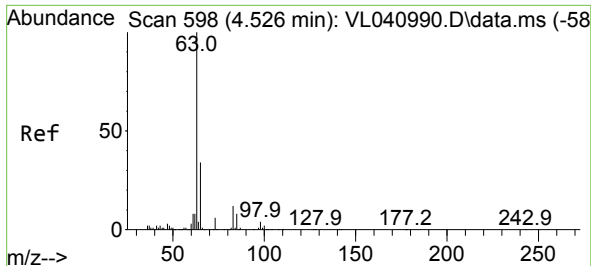
Ion Ratio Lower Upper

96 100

61 101.4 126.0 189.0#

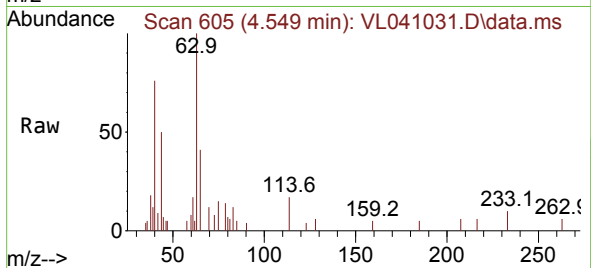
98 21.7 51.2 76.8#



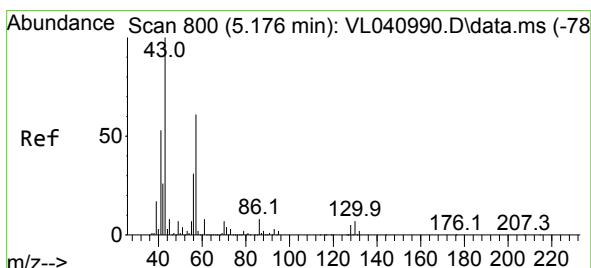
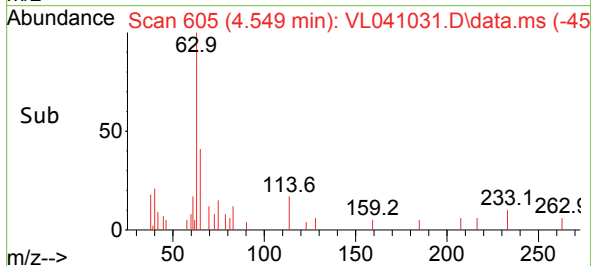
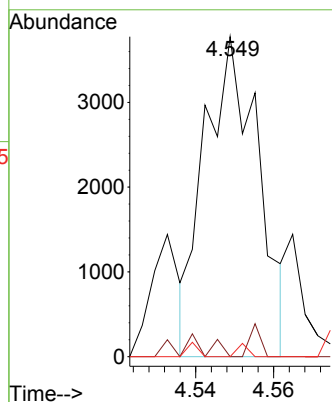


#24
1,1-Dichloroethane
Concen: 0.031 ppbv
RT: 4.549 min Scan# 605
Delta R.T. -0.003 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Instrument :
MSVOA_L
ClientSampleId :

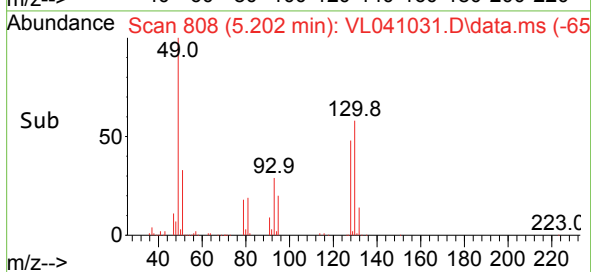
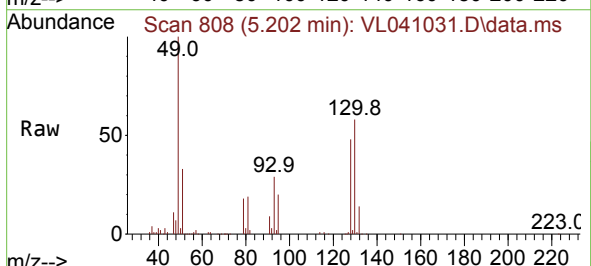
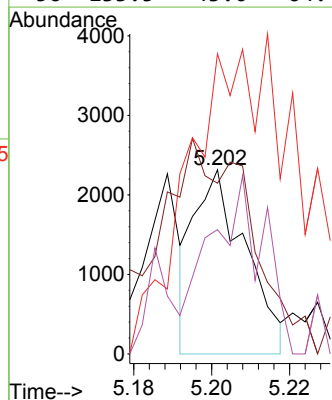


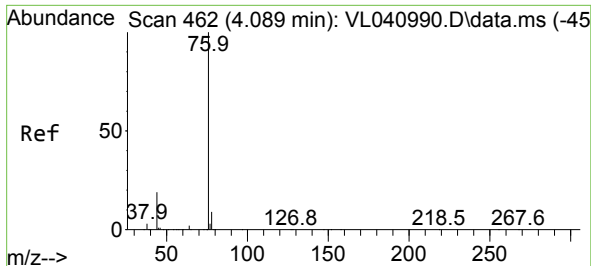
Tgt Ion: 63 Resp: 3593
Ion Ratio Lower Upper
63 100
98 0.0 2.1 6.3#
100 0.0 1.3 3.9#



#26
Hexane
Concen: 0.022 ppbv
RT: 5.202 min Scan# 808
Delta R.T. 0.000 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Tgt Ion: 57 Resp: 2126
Ion Ratio Lower Upper
57 100
41 237.7 74.4 111.6#
43 413.3 190.6 285.8#
56 133.5 43.0 64.4#

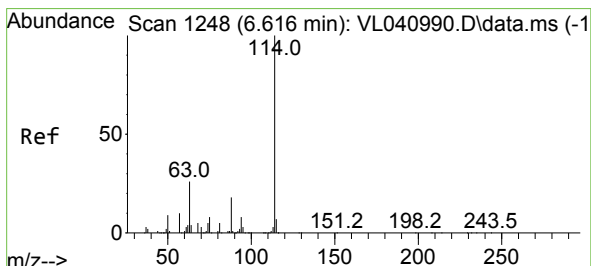
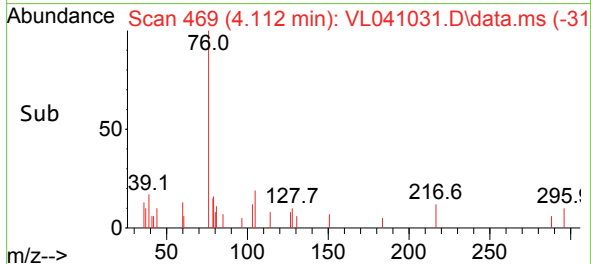
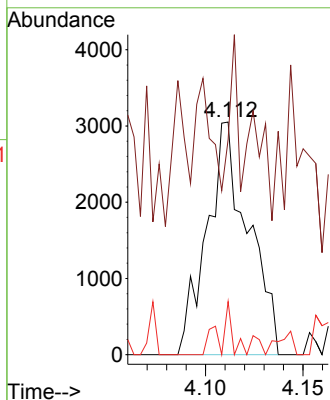
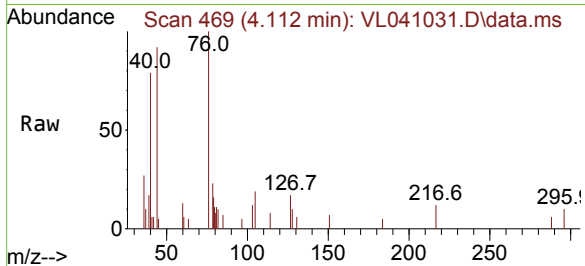




#27
Carbon Disulfide
Concen: 0.035 ppbv
RT: 4.112 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

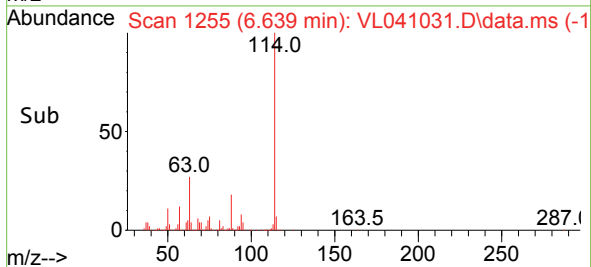
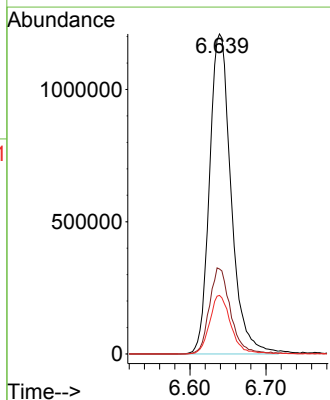
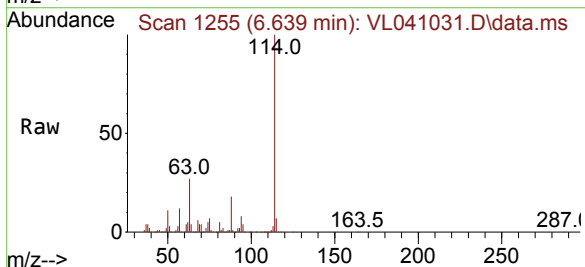
Instrument :
MSVOA_L
ClientSampleId :

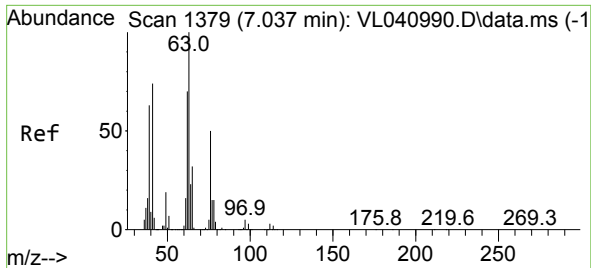
Tgt Ion: 76 Resp: 4488
Ion Ratio Lower Upper
76 100
44 157.9 16.0 24.0#
78 8.8 7.8 11.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.003 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Tgt Ion: 114 Resp: 2383915
Ion Ratio Lower Upper
114 100
63 26.5 20.8 31.2
88 18.1 14.3 21.5





#39

1,2-Dichloropropane

Concen: 8.046 ppbv

RT: 6.636 min Scan# 11

Delta R.T. -0.428 min

Lab File: VL041031.D

Acq: 25 Jan 2024 15:56

Instrument :

MSVOA_L

ClientSampleId :

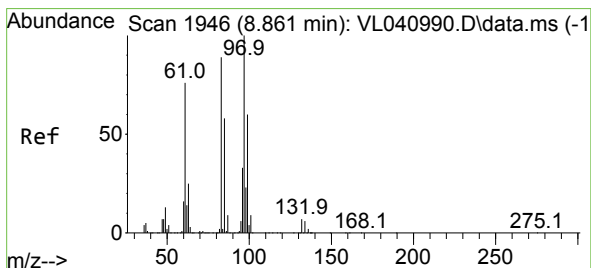
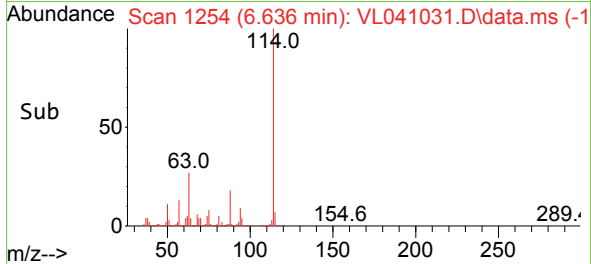
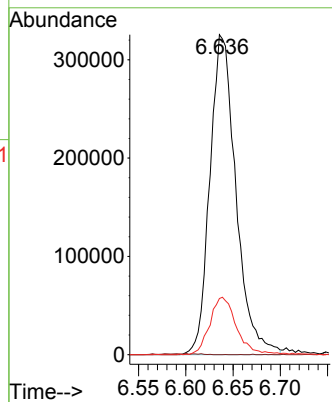
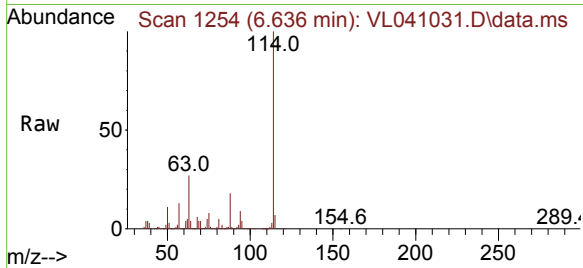
Tgt Ion: 63 Resp: 624072

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.3 55.6 83.4#



#47

1,1,2-Trichloroethane

Concen: 0.022 ppbv

RT: 8.889 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VL041031.D

Acq: 25 Jan 2024 15:56

Tgt Ion: 97 Resp: 1857

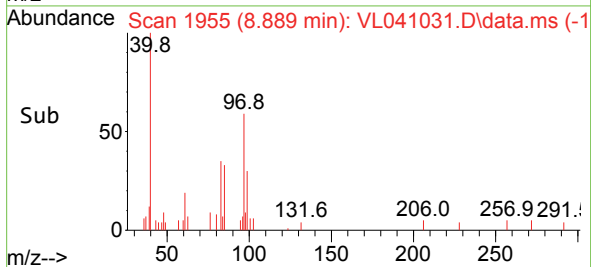
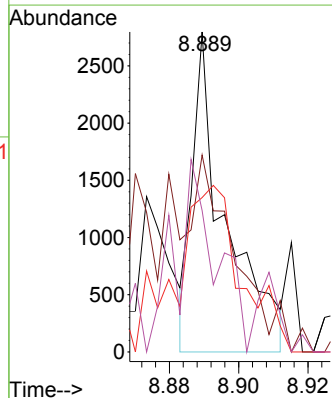
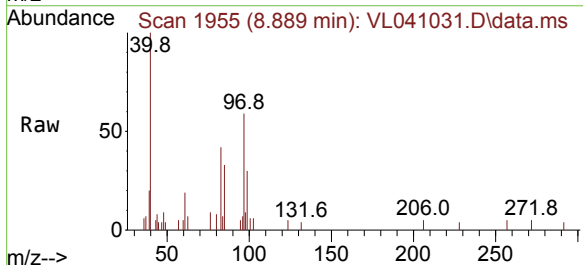
Ion Ratio Lower Upper

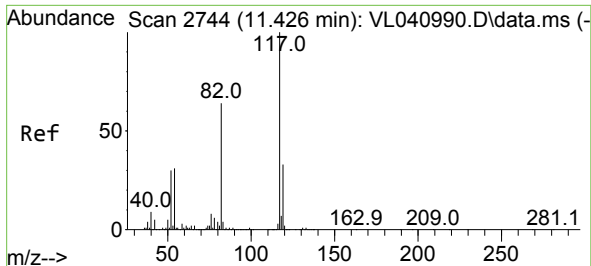
97 100

83 52.5 71.5 107.3#

85 46.1 46.1 69.1

99 37.6 47.8 71.8#

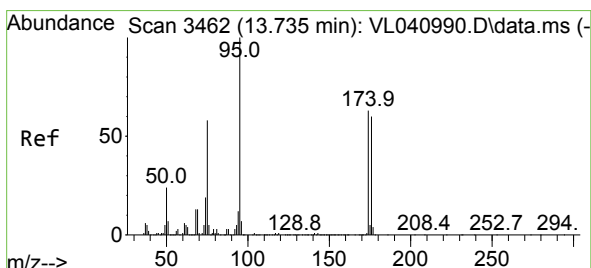
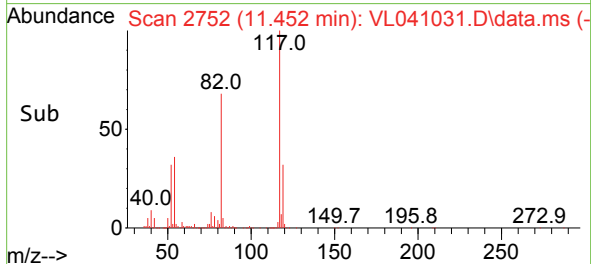
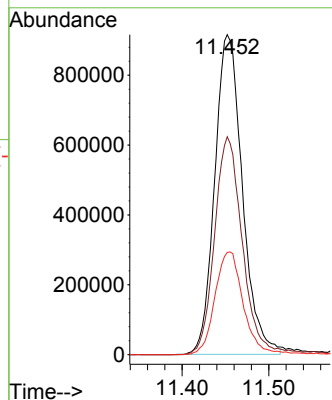
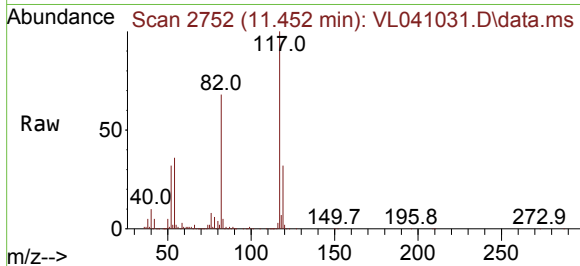




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 2026529
Ion Ratio Lower Upper
117 100
82 70.1 51.7 77.5
119 33.6 23.8 35.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.193 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. 0.000 min
Lab File: VL041031.D
Acq: 25 Jan 2024 15:56

Tgt Ion: 95 Resp: 1560156
Ion Ratio Lower Upper
95 100
174 59.6 49.1 73.7
175 4.2 3.7 5.5

