

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036966.D
 Acq On : 18 May 2021 13:14
 Operator : SY/AP
 Sample : M2262-13 0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

Quant Time: May 19 03:12:54 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1259797	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3657578	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3382120	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2573893	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	31440	0.147 ppbv	98
3) Chlorodifluoromethane	2.97	51	28742	0.125 ppbv	97
4) Chloromethane	3.12	50	9701	0.124 ppbv #	77
5) Vinyl Chloride	3.24	62	5994	0.070 ppbv #	77
6) Bromomethane	3.46	94	2069	0.046 ppbv	89
7) Chloroethane	3.54	64	1232	0.044 ppbv #	80
8) Dichlorotetrafluoroethane	3.17	85	25393	0.127 ppbv	99
9) Propene	3.00	41	13768	0.167 ppbv	91
10) Heptane	8.10	43	15559	0.076 ppbv #	39
11) Trichlorofluoromethane	3.93	101	10536	0.053 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	16385	0.116 ppbv	88
14) Bromoethene	3.72	108	2601	0.042 ppbv #	1
15) Acetone	3.86	43	26073	0.202 ppbv #	45
16) 1,3-Butadiene	3.31	39	6364	0.079 ppbv #	56
18) 1,1-Dichloroethene	4.26	96	2775	0.043 ppbv	89
20) Methylene Chloride	4.33	84	12552	0.181 ppbv	92
21) Allyl Chloride	4.39	41	5924	0.061 ppbv #	27
22) trans-1,2-Dichloroethene	4.87	96	3480	0.056 ppbv #	40
24) 1,1-Dichloroethane	4.99	63	7759	0.053 ppbv #	90
25) Ethyl Acetate	5.67	43	20559	0.066 ppbv #	75
26) Hexane	5.66	57	13167	0.083 ppbv #	39
27) Carbon Disulfide	4.53	76	8637	0.054 ppbv #	38
28) Methyl tert-Butyl Ether	5.04	73	19652	0.104 ppbv	100
29) Chloroform	5.73	83	25770	0.115 ppbv	90
30) Cyclohexane	7.10	84	5202	0.039 ppbv #	1
31) cis-1,2-Dichloroethene	5.52	61	5345	0.038 ppbv	97
32) 1,1,1-Trichloroethane	6.49	97	15507	0.065 ppbv #	42
35) Carbon Tetrachloride	7.00	117	7325	0.030 ppbv	90
36) Benzene	6.87	78	24257	0.077 ppbv	96
37) 1,2-Dichloroethane	6.29	62	12309	0.079 ppbv #	88
38) Trichloroethene	7.81	130	8701	0.065 ppbv	91
39) 1,2-Dichloropropane	7.59	63	11814	0.097 ppbv #	77
42) Bromodichloromethane	7.76	83	9999	0.042 ppbv	97
43) Methyl Methacrylate	8.00	69	3939	0.036 ppbv #	1
44) 2,2,4-Trimethylpentane	7.84	57	61706	0.114 ppbv	95
46) cis-1,3-Dichloropropene	8.68	75	7253	0.065 ppbv #	74
47) 1,1,2-Trichloroethane	9.45	97	5507	0.043 ppbv #	43
48) Dibromochloromethane	10.28	129	10707	0.052 ppbv #	53
52) Tetrachloroethene	11.19	164	8544	0.068 ppbv	93
53) Toluene	9.78	91	19224	0.051 ppbv #	19
54) 1,2-Dibromoethane	10.58	107	8459	0.047 ppbv	82

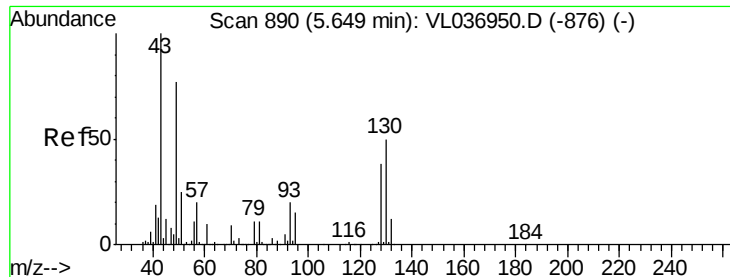
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036966.D
 Acq On : 18 May 2021 13:14
 Operator : SY/AP
 Sample : M2262-13 0.1
 Misc : 400mL/MSVOA L
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Instrument :
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Quant Time: May 19 03:12:54 2021
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Chlorobenzene	12.12	112	30339	0.116	ppbv #	87
58) Ethyl Benzene	12.67	91	19164	0.040	ppbv	89
59) m/p-Xylene	12.97	91	24773	0.063	ppbv #	30
60) o-Xylene	13.66	91	45730	0.122	ppbv	98
61) Styrene	13.50	104	10823	0.051	ppbv #	17
62) Isopropylbenzene	14.63	105	22051	0.041	ppbv #	48
63) 1,1,2,2-Tetrachloroethane	13.66	83	17973	0.064	ppbv #	48
65) tert-Butylbenzene	16.72	119	30150	0.062	ppbv #	20
67) sec-Butylbenzene	17.28	105	67879	0.102	ppbv #	90
69) p-Isopropyltoluene	17.63	119	35848	0.063	ppbv #	54
70) n-Butylbenzene	18.54	91	33983	0.062	ppbv #	57
71) 2-Chlorotoluene	15.43	91	40515	0.104	ppbv	93
72) 4-Ethyltoluene	15.81	105	22699	0.051	ppbv #	38
73) 1,3,5-Trimethylbenzene	15.98	105	43959	0.105	ppbv	88
74) 1,2,4-Trimethylbenzene	16.74	105	20766	0.048	ppbv	94
75) 1,3-Dichlorobenzene	16.97	146	12365	0.047	ppbv #	1
76) 1,4-Dichlorobenzene	17.11	146	8742	0.033	ppbv #	1
77) 1,2-Dichlorobenzene	17.79	146	10074	0.038	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.36	225	18510	0.087	ppbv #	33
80) Naphthalene,2-methyl-	25.05	142	3304	0.045	ppbv #	60
81) 1,2,4-Trichlorobenzene	21.91	180	9792	0.047	ppbv #	9

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL036966.D

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Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

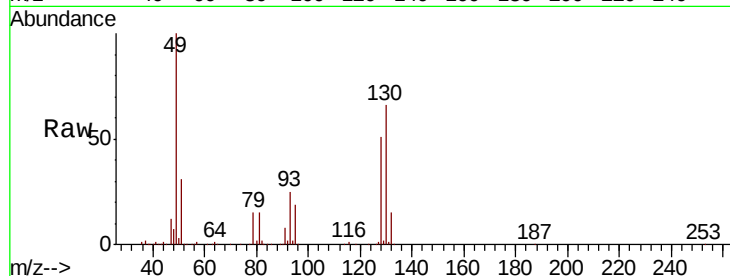
Tot Ion: 49 Resp: 1259797

Ion Ratio Lower Upper

49 100

128 54.6 26.9 80.7

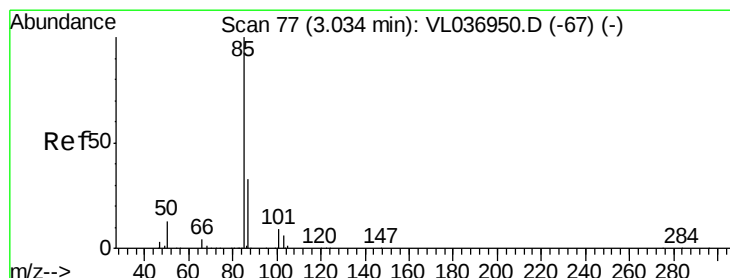
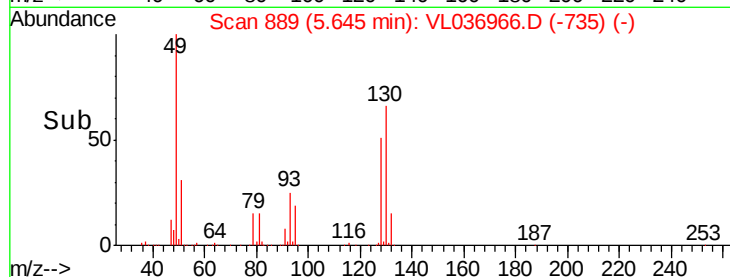
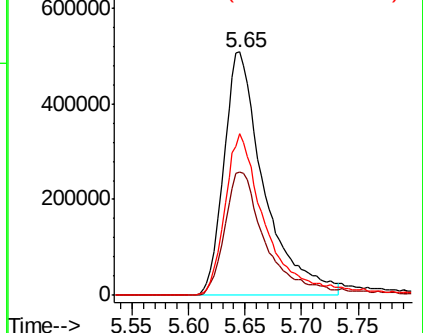
130 70.1 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.147 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL036966.D

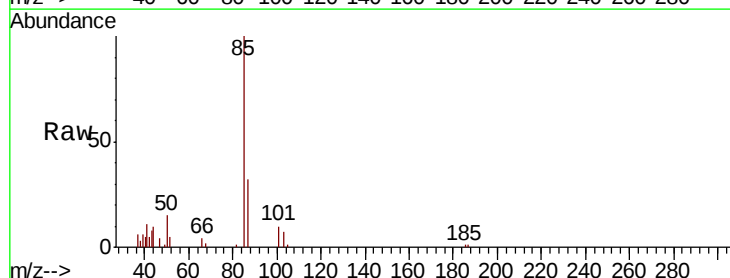
Acq: 18 May 2021 13:14

Tgt Ion: 85 Resp: 31440

Ion Ratio Lower Upper

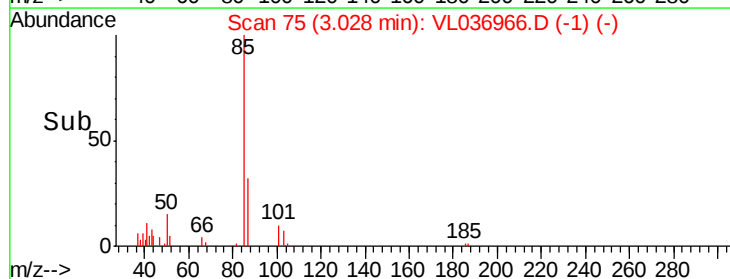
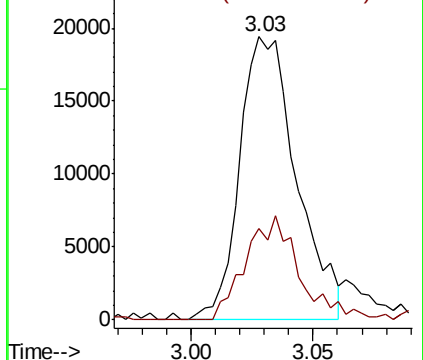
85 100

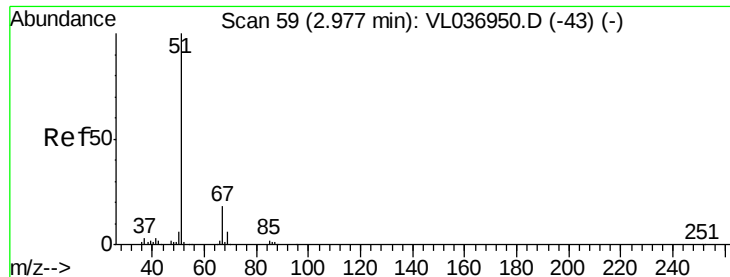
87 32.3 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.125 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

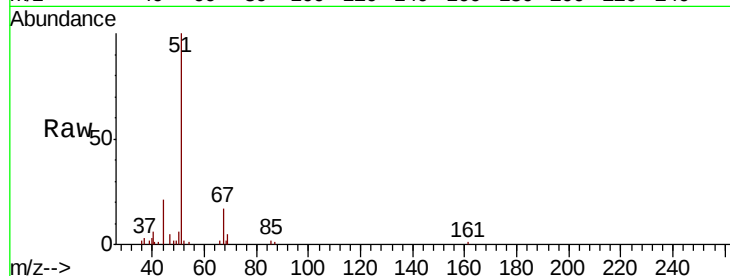
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 51 Resp: 28742

Ion Ratio Lower Upper

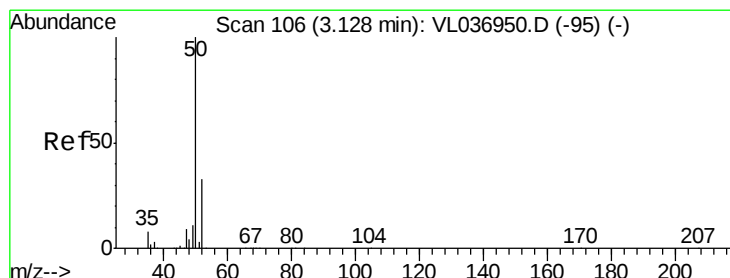
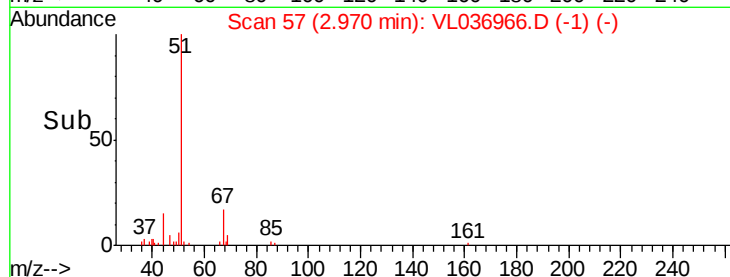
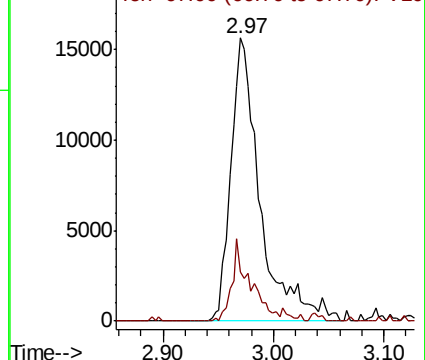
51 100

67 19.5 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.124 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL036966.D

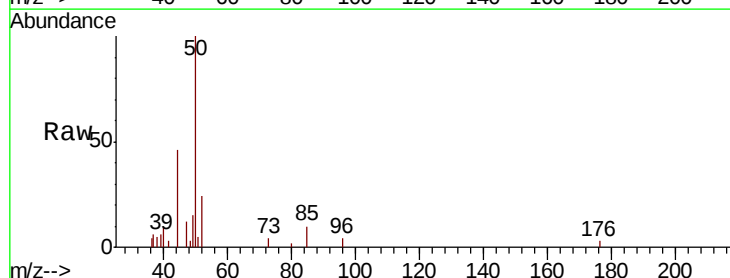
Acq: 18 May 2021 13:14

Tgt Ion: 50 Resp: 9701

Ion Ratio Lower Upper

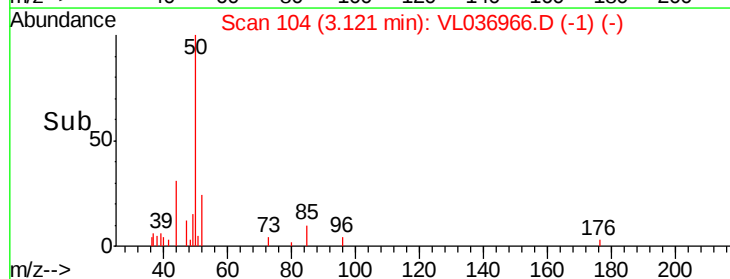
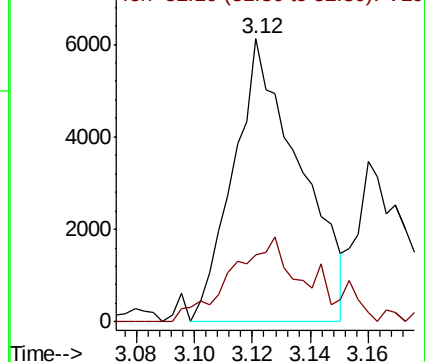
50 100

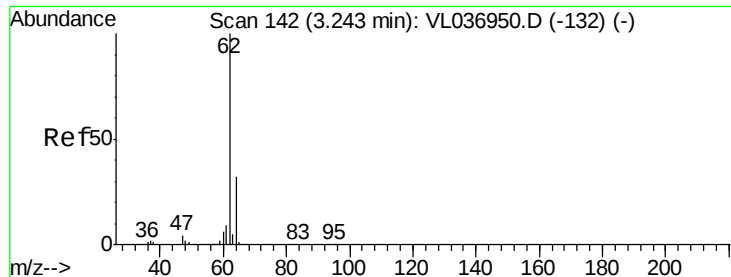
52 19.5 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.070 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

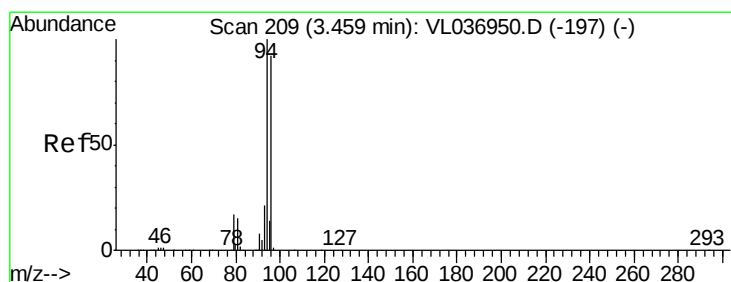
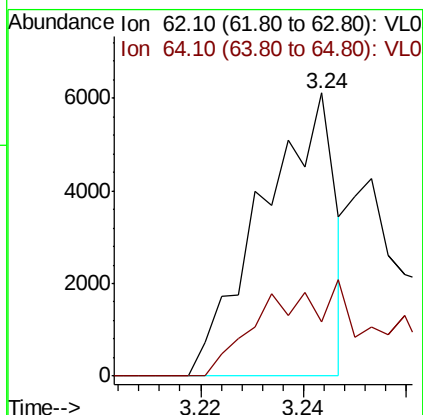
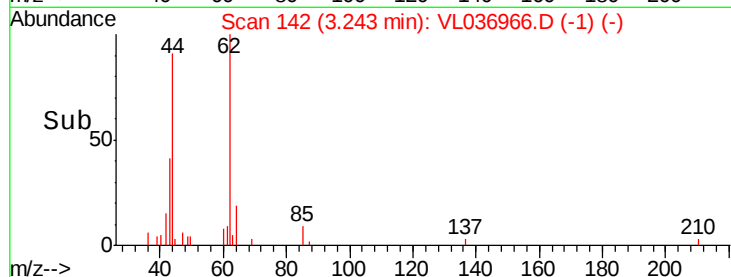
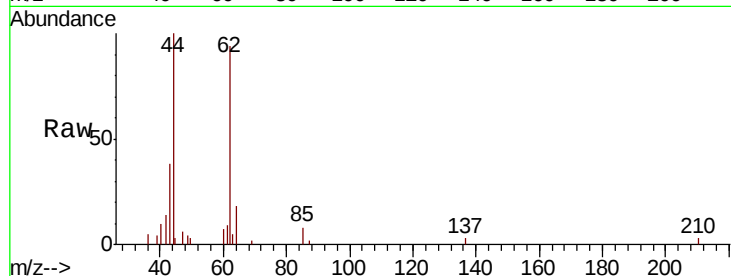
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 62 Resp: 5994

Ion Ratio Lower Upper

62 100

64 19.4 25.9 38.9#



#6

Bromomethane

Concen: 0.046 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL036966.D

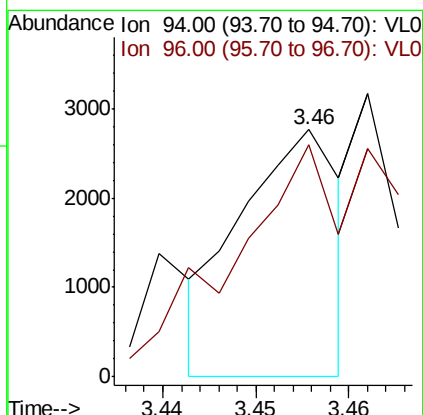
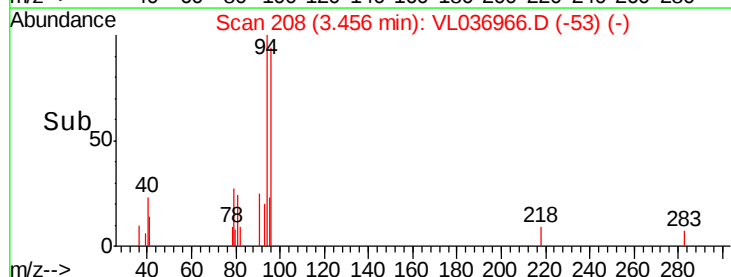
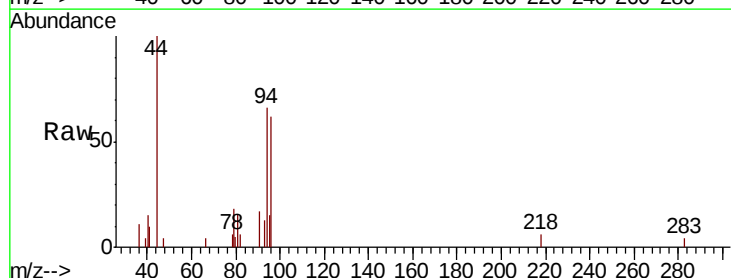
Acq: 18 May 2021 13:14

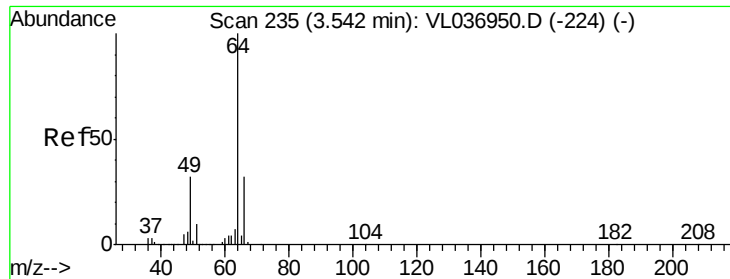
Tgt Ion: 94 Resp: 2069

Ion Ratio Lower Upper

94 100

96 82.4 74.0 111.0





#7

Chloroethane

Concen: 0.044 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

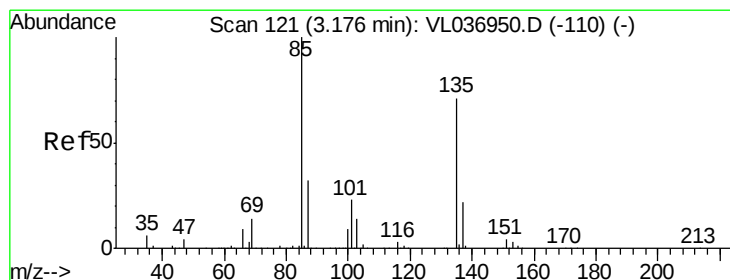
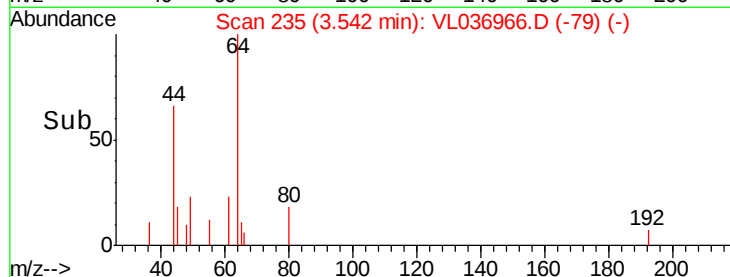
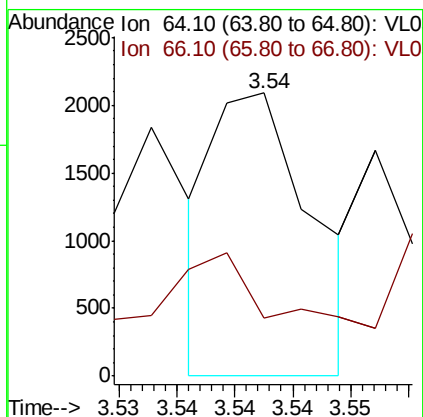
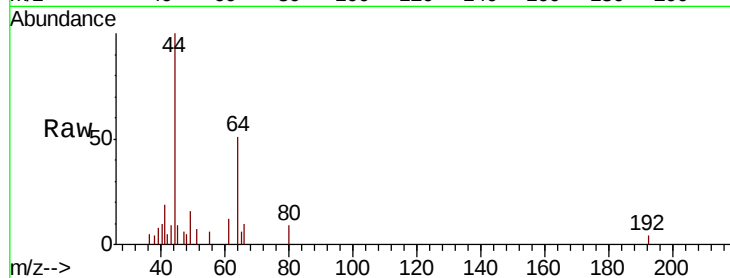
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 64 Resp: 1232

Ion Ratio Lower Upper

64 100

66 20.4 25.4 38.2#



#8

Dichlorotetrafluoroethane

Concen: 0.127 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL036966.D

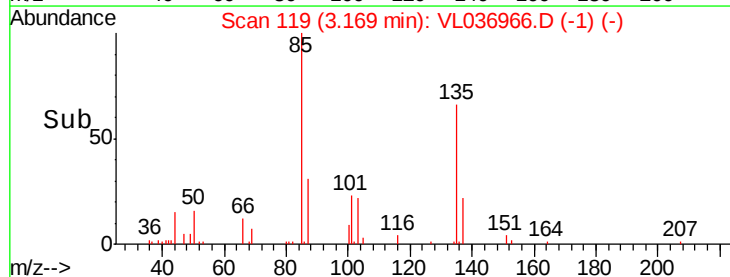
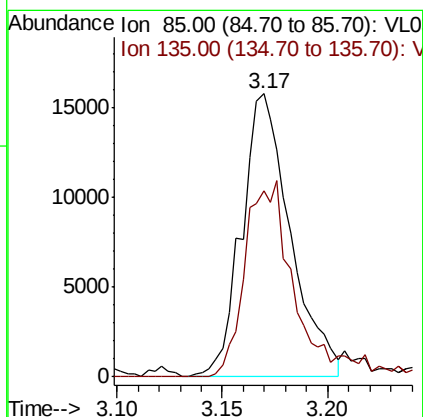
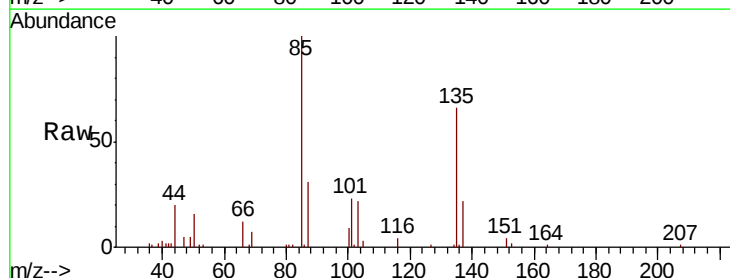
Acq: 18 May 2021 13:14

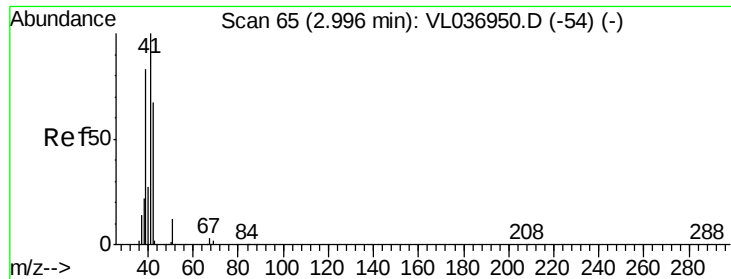
Tgt Ion: 85 Resp: 25393

Ion Ratio Lower Upper

85 100

135 72.7 57.7 86.5





#9

Propene

Concen: 0.167 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

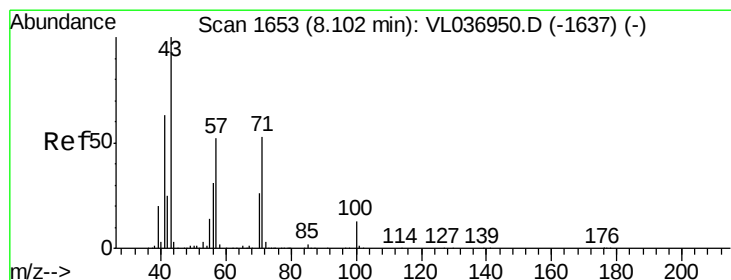
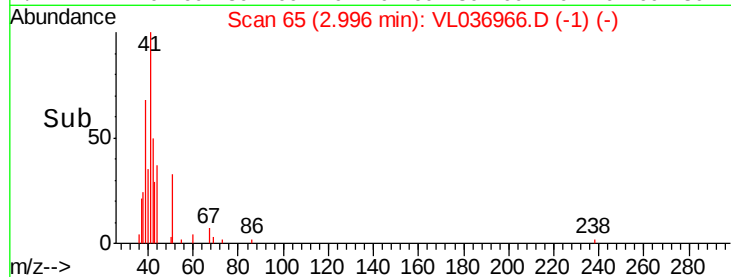
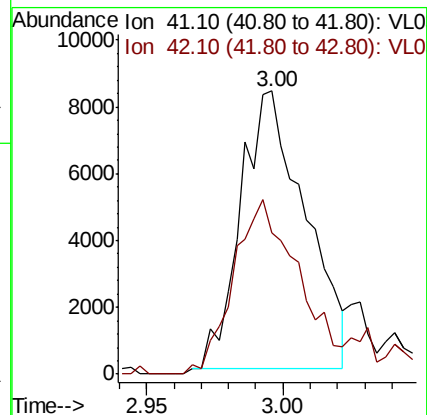
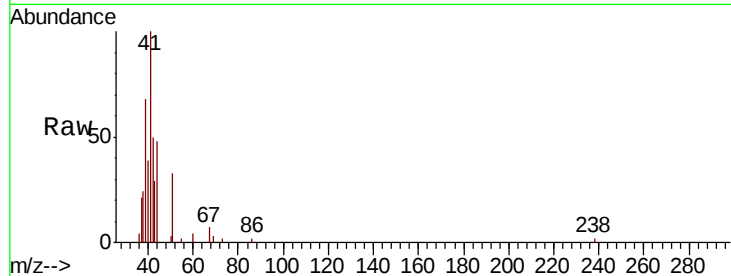
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 41 Resp: 13768

Ion Ratio Lower Upper

41 100

42 74.4 53.9 80.9



#10

Heptane

Concen: 0.076 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL036966.D

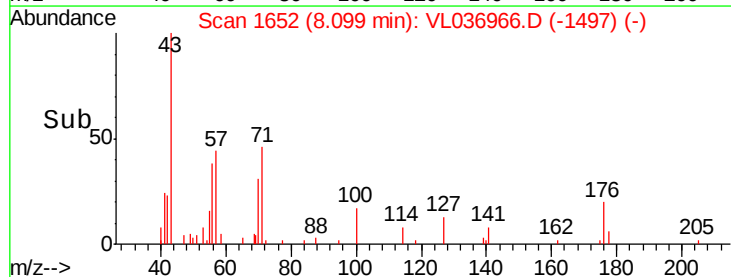
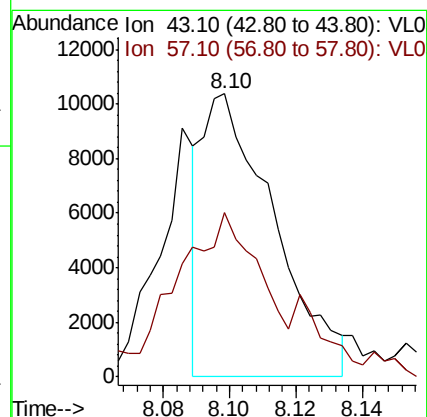
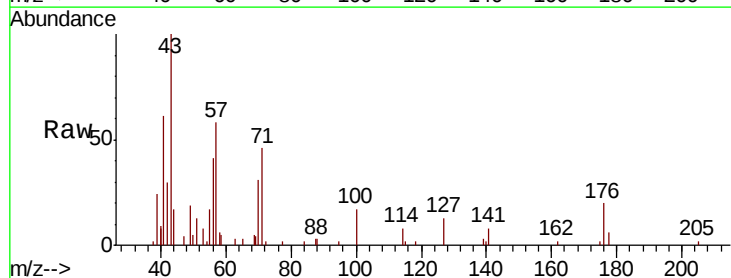
Acq: 18 May 2021 13:14

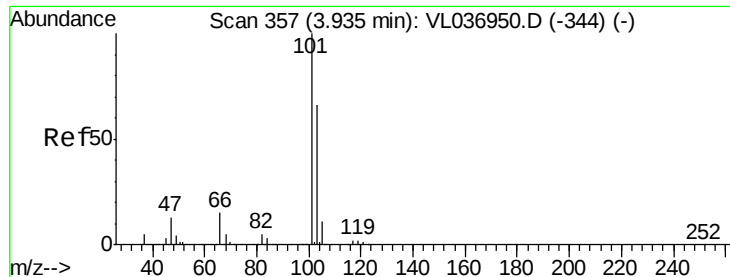
Tgt Ion: 43 Resp: 15559

Ion Ratio Lower Upper

43 100

57 94.0 41.0 61.6#

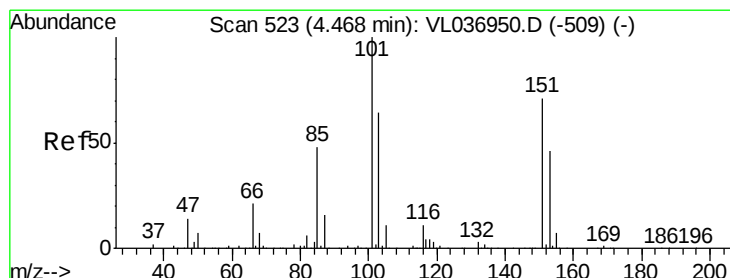
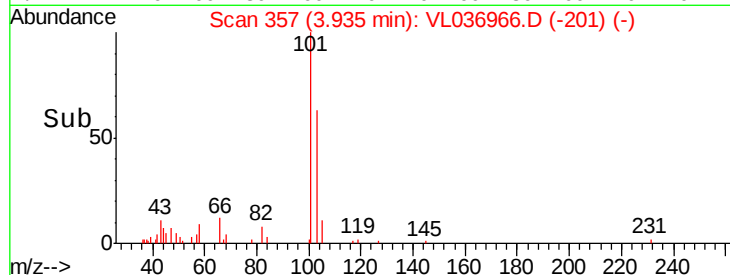
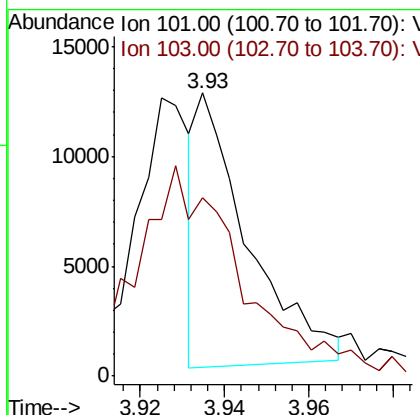
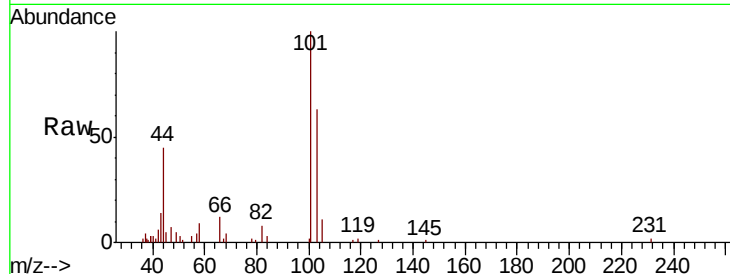




#11
 Trichlorofluoromethane
 Concen: 0.053 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

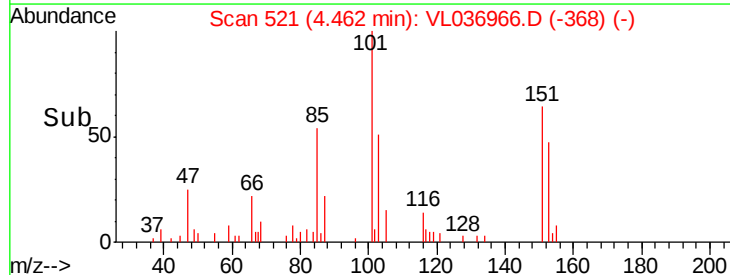
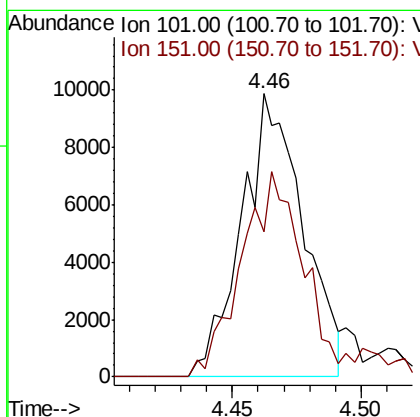
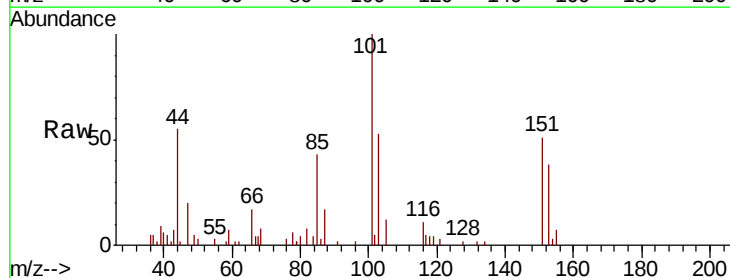
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

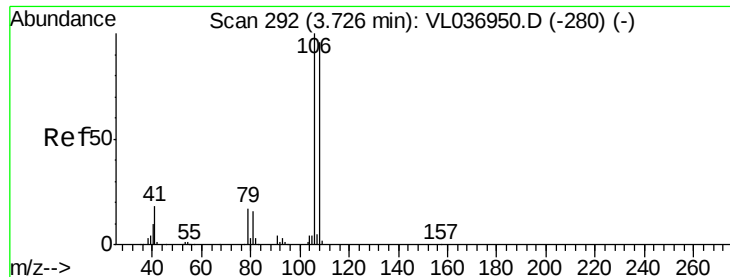
Tot Ion:101 Resp: 10536
 Ion Ratio Lower Upper
 101 100
 103 63.5 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.116 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.01 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

Tgt Ion:101 Resp: 16385
 Ion Ratio Lower Upper
 101 100
 151 82.0 57.7 86.5





#14

Bromoethene

Concen: 0.042 ppbv

RT: 3.72 min Scan# 290

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

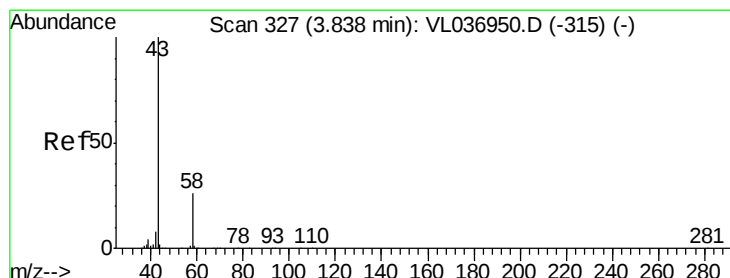
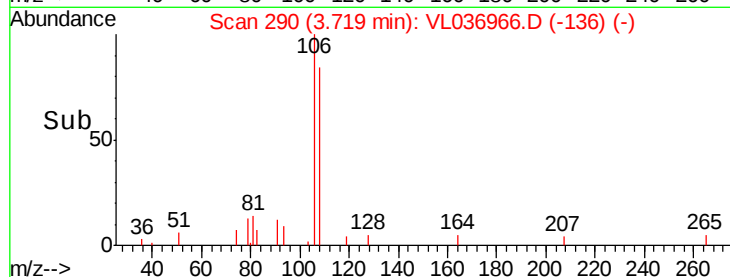
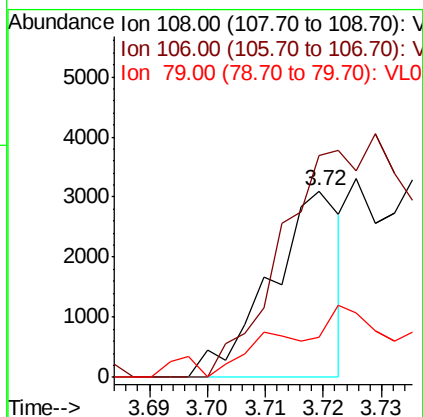
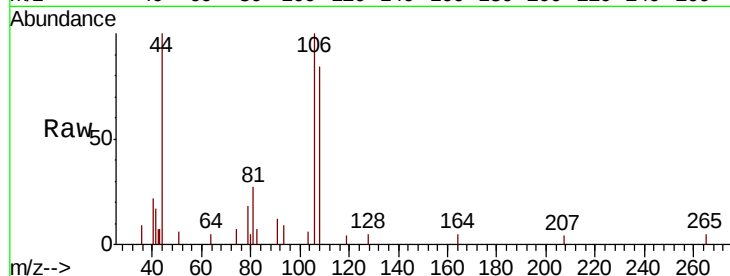
Tot Ion:108 Resp: 2601

Ion Ratio Lower Upper

108 100

106 0.0 86.5 129.7#

79 94.5 15.0 22.4#



#15

Acetone

Concen: 0.202 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.03 min

Lab File: VL036966.D

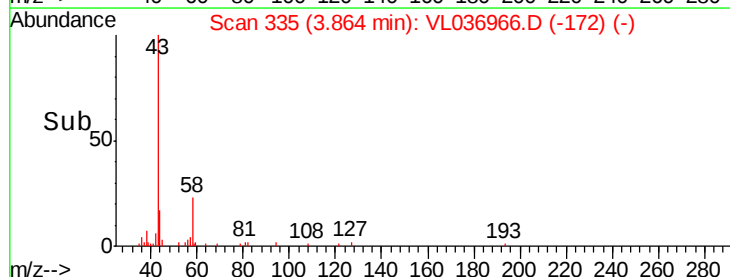
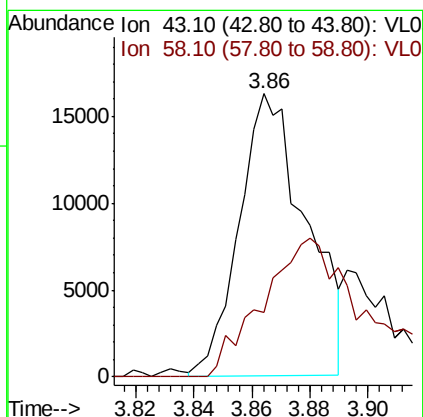
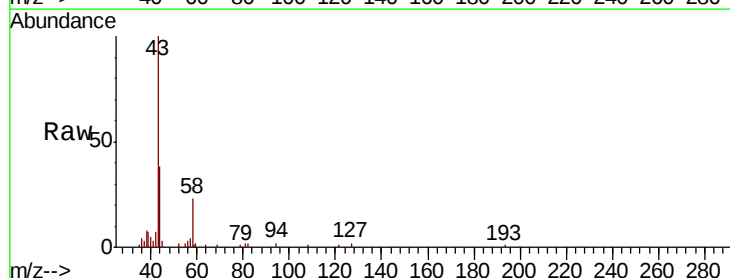
Acq: 18 May 2021 13:14

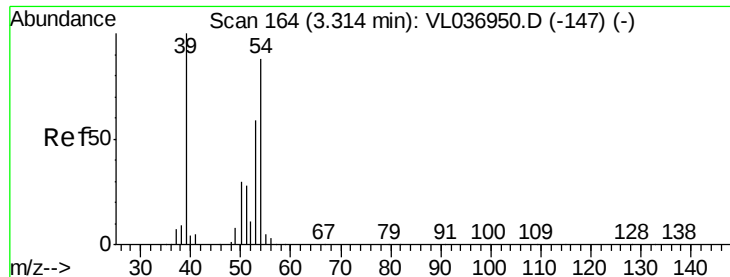
Tgt Ion: 43 Resp: 26073

Ion Ratio Lower Upper

43 100

58 0.0 24.0 36.0#





#16

1,3-Butadiene

Concen: 0.079 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

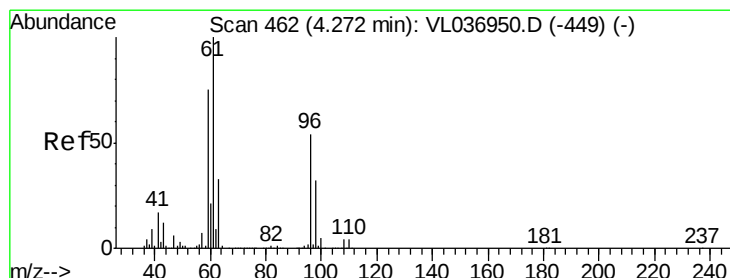
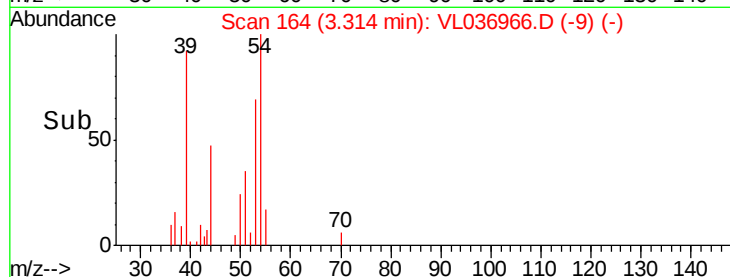
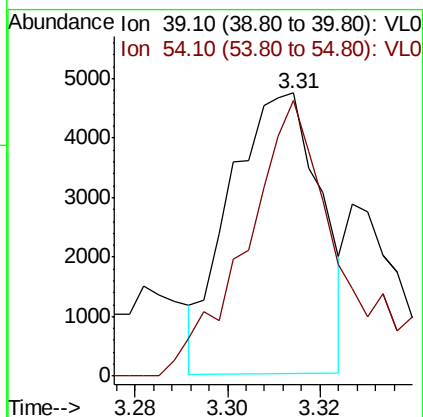
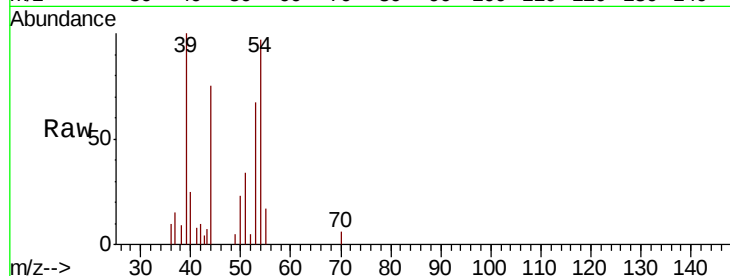
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 39 Resp: 6364

Ion Ratio Lower Upper

39 100

54 117.8 63.2 94.8#



#18

1,1-Dichloroethene

Concen: 0.043 ppbv

RT: 4.26 min Scan# 459

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

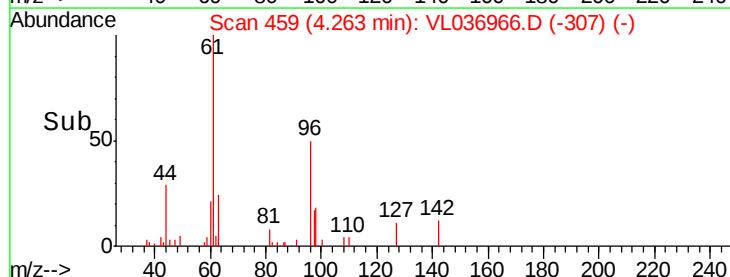
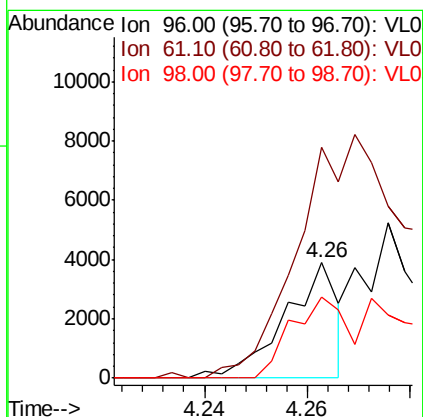
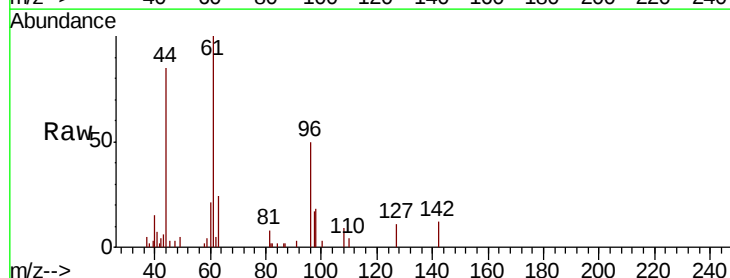
Tgt Ion: 96 Resp: 2775

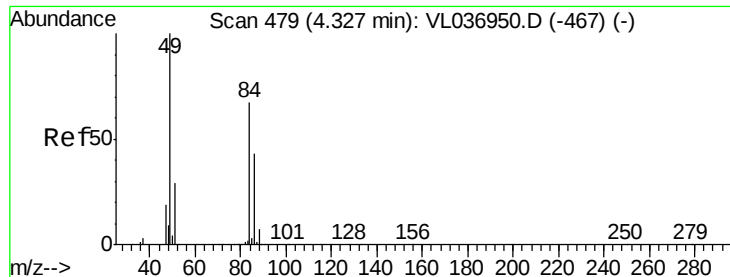
Ion Ratio Lower Upper

96 100

61 200.7 148.2 222.4

98 69.9 47.8 71.6





#20

Methylene Chloride

Concen: 0.181 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

Tot Ion: 84 Resp: 12552

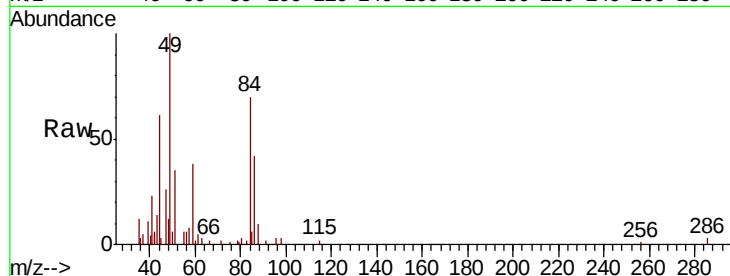
Ion Ratio Lower Upper

84 100

49 139.3 119.8 179.6

51 50.2 35.1 52.7

86 59.8 50.9 76.3

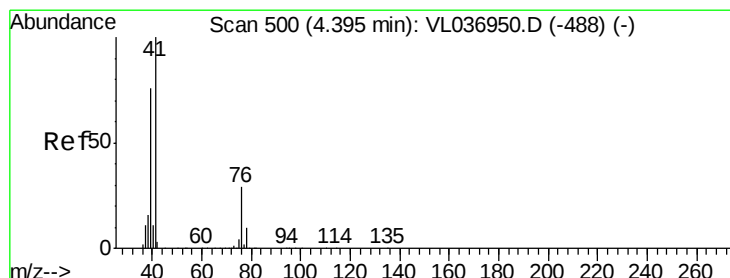
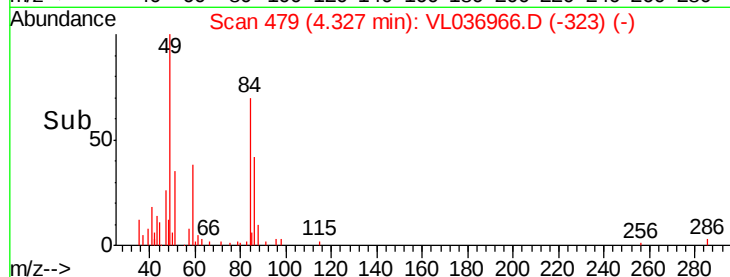
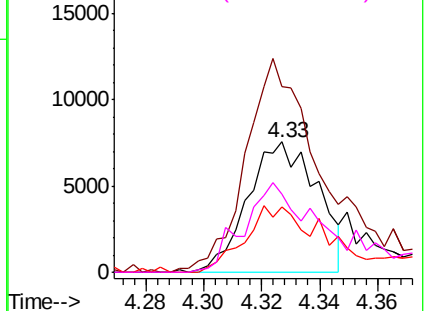


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 0.061 ppbv

RT: 4.39 min Scan# 500

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

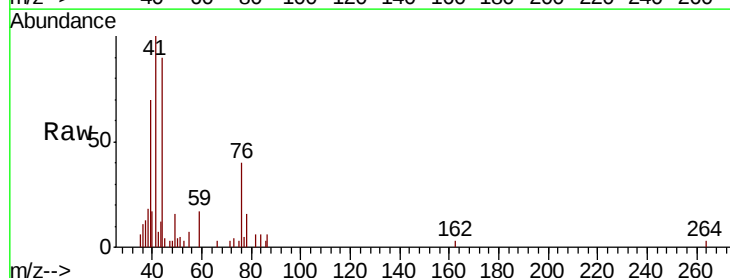
Tgt Ion: 41 Resp: 5924

Ion Ratio Lower Upper

41 100

76 70.2 24.9 37.3#

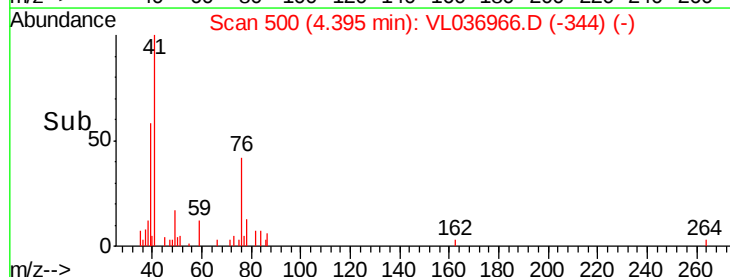
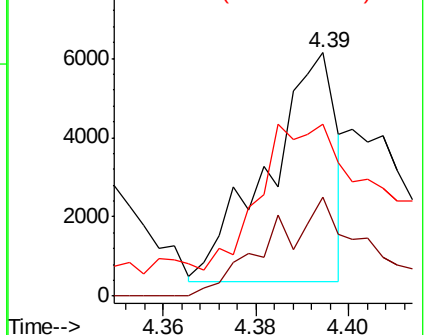
39 144.6 63.7 95.5#

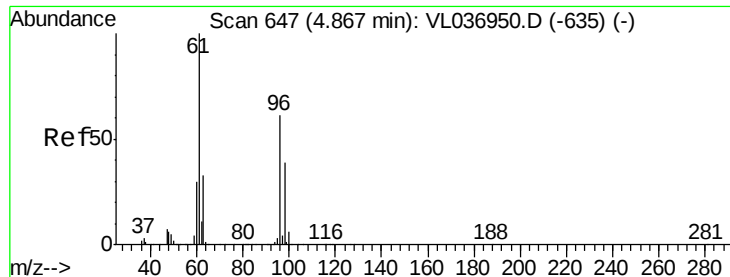


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.056 ppbv

RT: 4.87 min Scan# 647

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

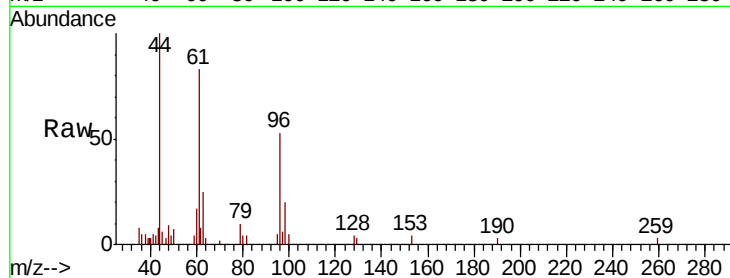
Tot Ion: 96 Resp: 3480

Ion Ratio Lower Upper

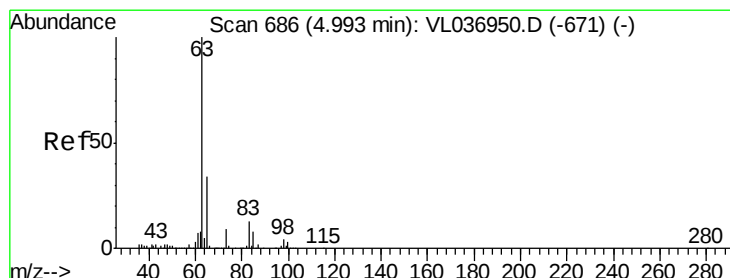
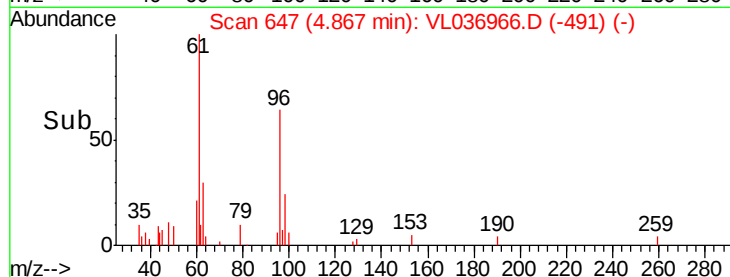
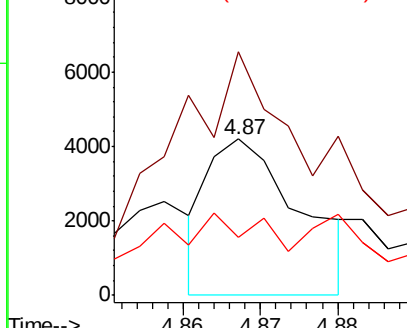
96 100

61 87.2 130.6 196.0#

98 9.6 50.8 76.2#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#24

1,1-Dichloroethane

Concen: 0.053 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

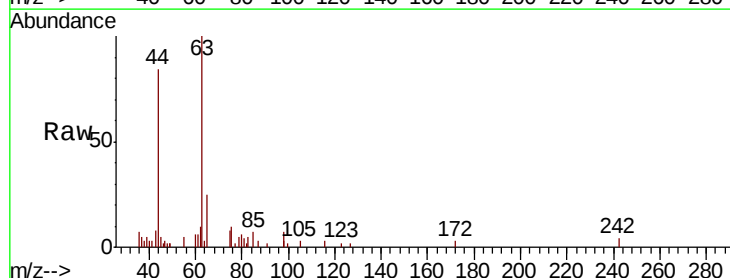
Tgt Ion: 63 Resp: 7759

Ion Ratio Lower Upper

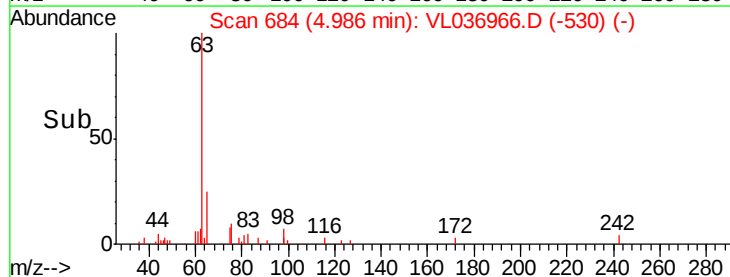
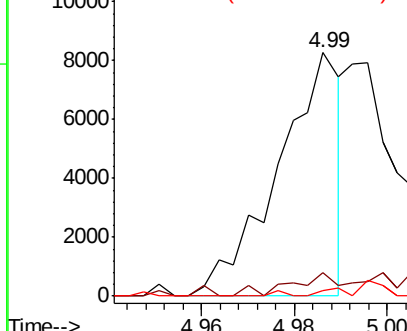
63 100

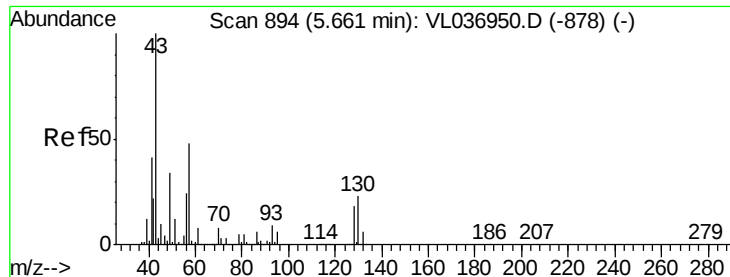
98 9.8 2.3 6.9#

100 2.4 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0

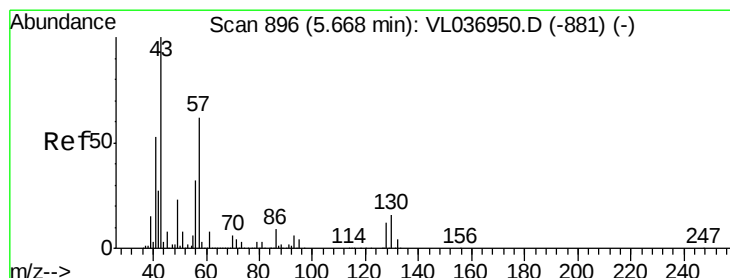
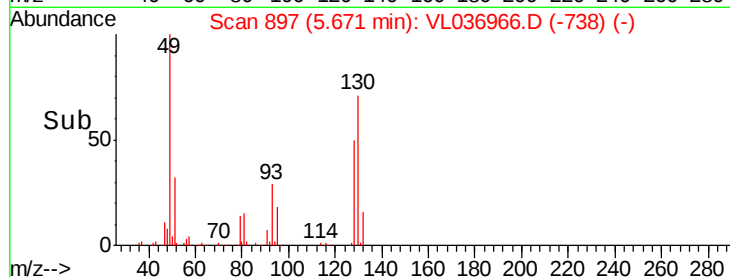
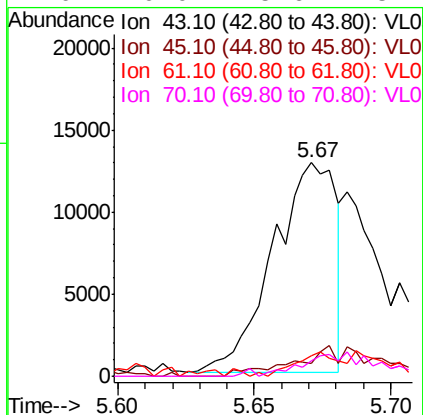
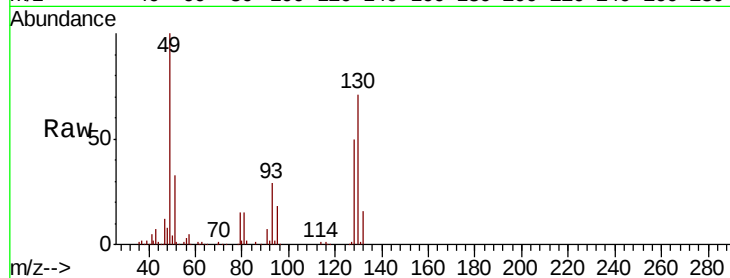




#25
Ethyl Acetate
Concen: 0.066 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL036966.D
Acq: 18 May 2021 13:14

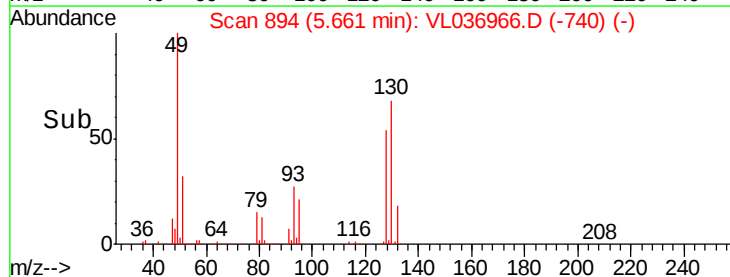
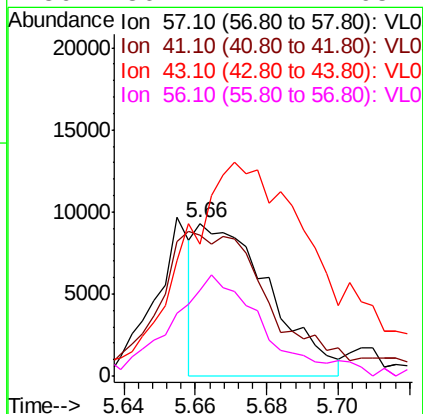
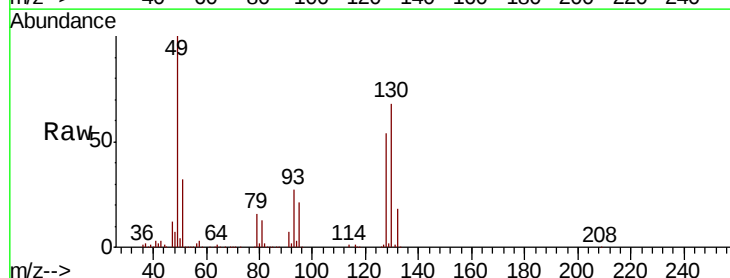
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2021

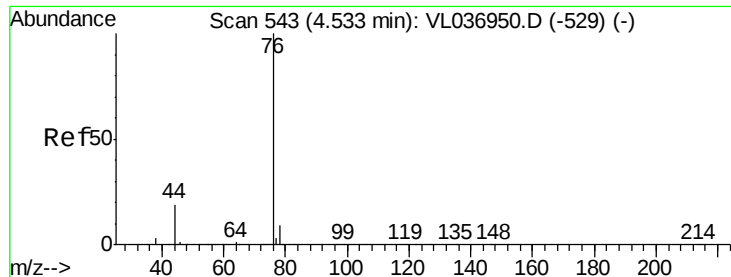
Tot Ion:	43	Resp:	20559
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	0.0	7.8	11.8#
70	0.0	5.6	8.4#



#26
Hexane
Concen: 0.083 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL036966.D
Acq: 18 May 2021 13:14

Tgt Ion:	57	Resp:	13167
Ion	Ratio	Lower	Upper
57	100		
41	163.5	70.5	105.7#
43	292.7	165.8	248.8#
56	86.7	42.2	63.4#





#27

Carbon Disulfide

Concen: 0.054 ppbv

RT: 4.53 min Scan# 543

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

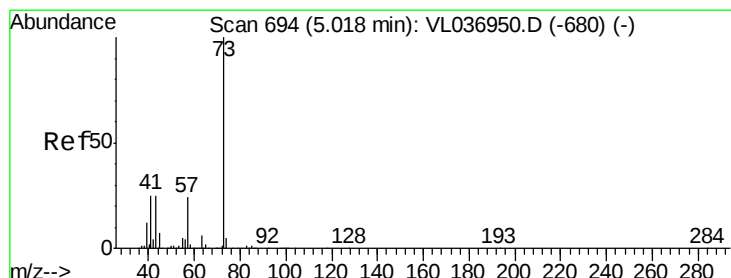
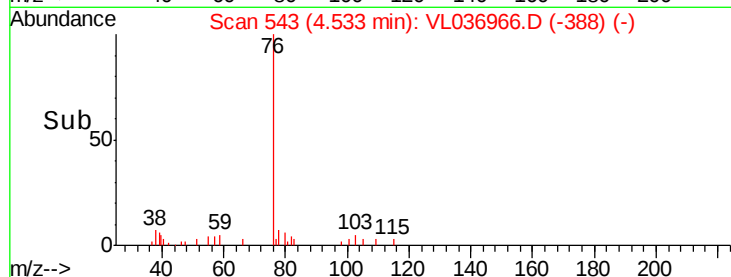
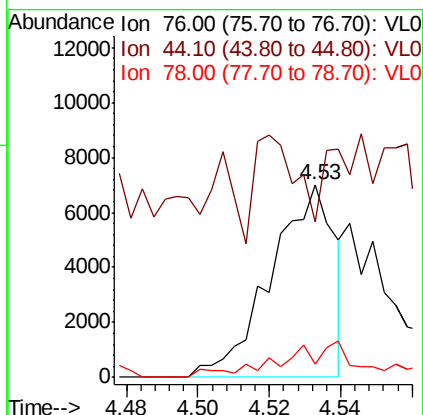
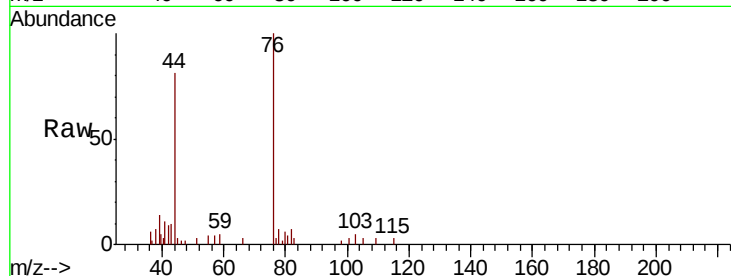
Tot Ion: 76 Resp: 8637

Ion Ratio Lower Upper

76 100

44 55.9 15.5 23.3#

78 0.0 7.8 11.6#



#28

Methyl tert-Butyl Ether

Concen: 0.104 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.02 min

Lab File: VL036966.D

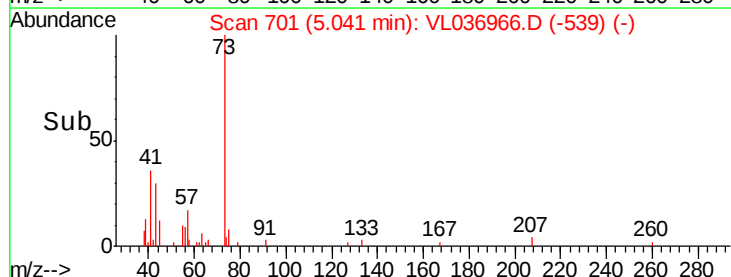
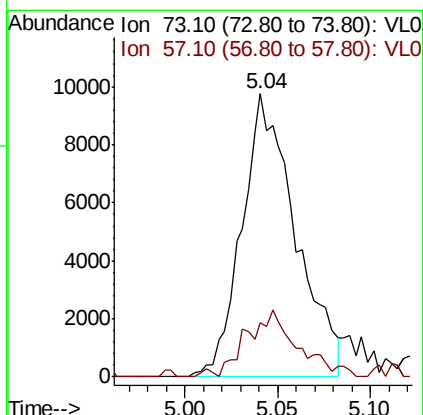
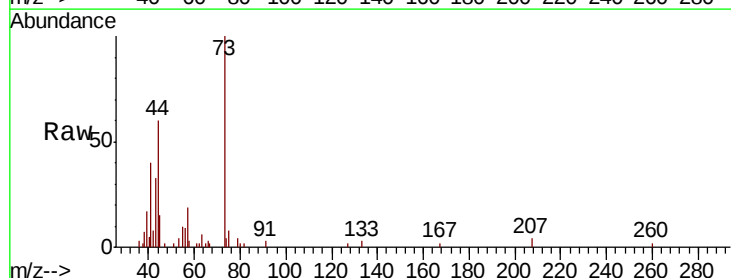
Acq: 18 May 2021 13:14

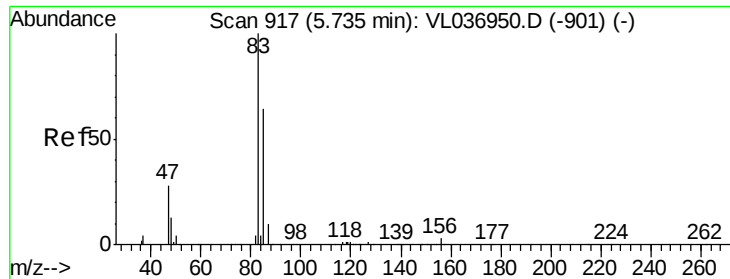
Tgt Ion: 73 Resp: 19652

Ion Ratio Lower Upper

73 100

57 22.7 18.3 27.5





#29

Chloroform

Concen: 0.115 ppbv

RT: 5.73 min Scan# 915

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

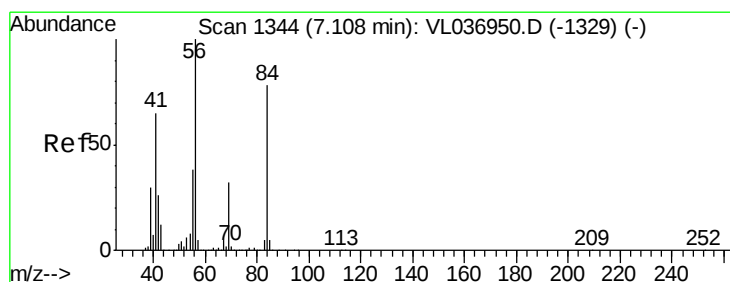
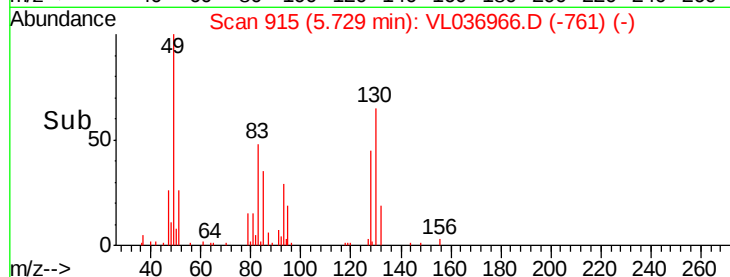
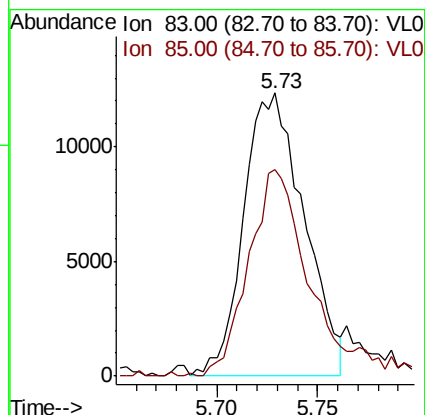
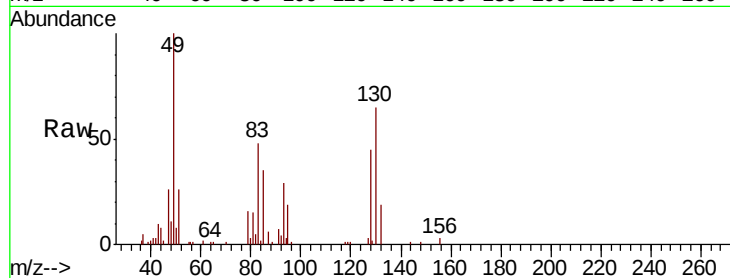
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 83 Resp: 25770

Ion Ratio Lower Upper

83 100

85 71.9 51.1 76.7



#30

Cyclohexane

Concen: 0.039 ppbv

RT: 7.10 min Scan# 1342

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

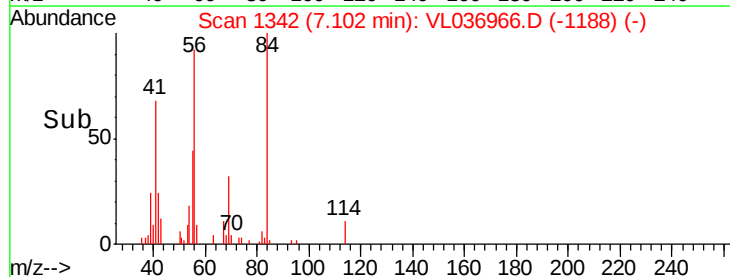
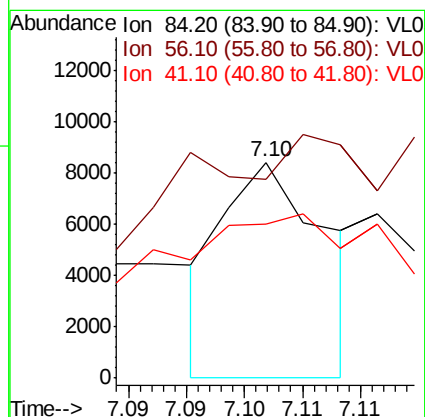
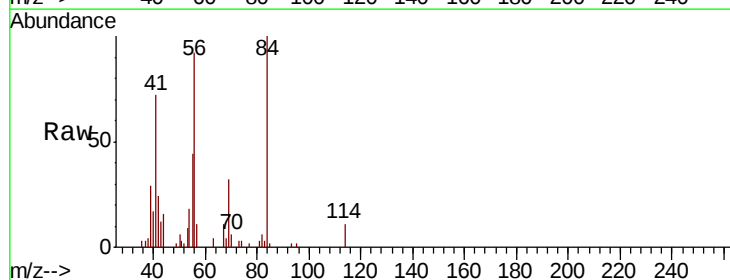
Tgt Ion: 84 Resp: 5202

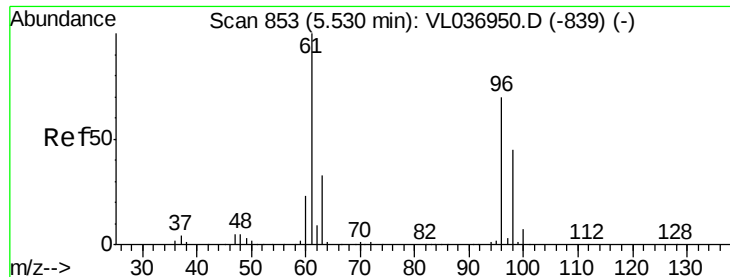
Ion Ratio Lower Upper

84 100

56 0.0 107.9 161.9#

41 304.8 65.5 98.3#



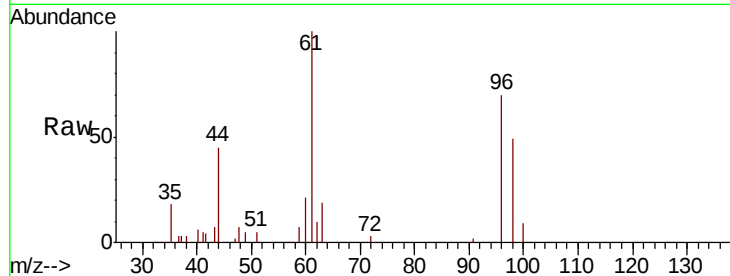


#31

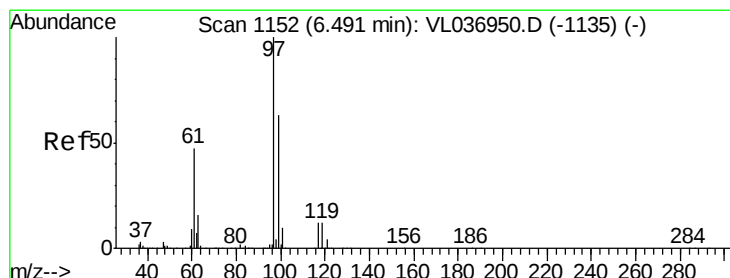
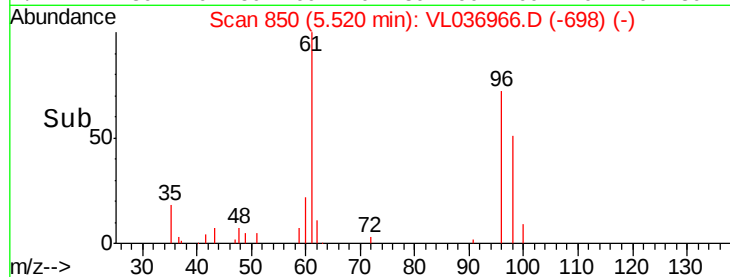
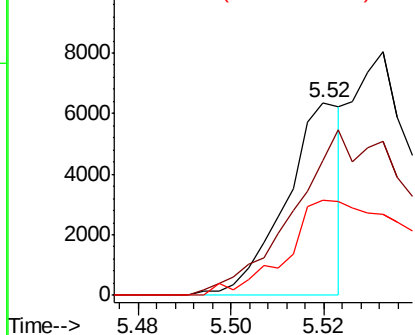
cis-1,2-Dichloroethene
 Concen: 0.038 ppbv
 RT: 5.52 min Scan# 850
 Delta R.T. -0.01 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

Tot Ion:	61.10	Resp:	5345
Ion	Ratio	Lower	Upper
61	100		
96	70.0	55.9	83.9
98	49.4	35.6	53.4



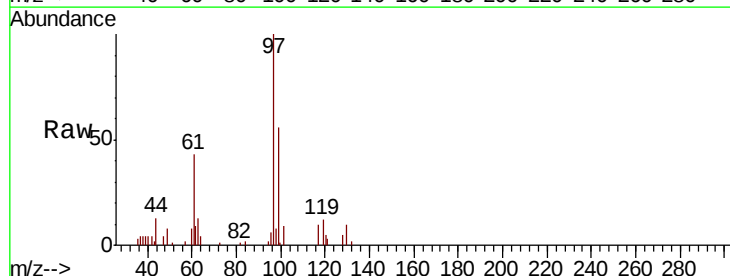
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



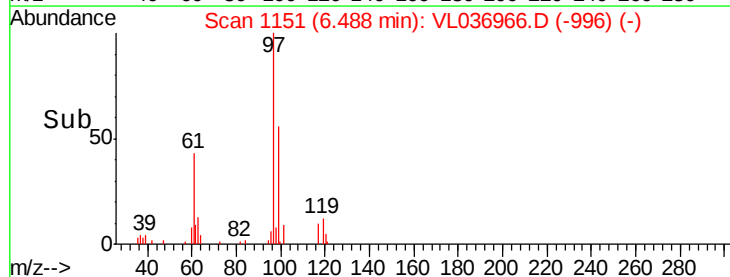
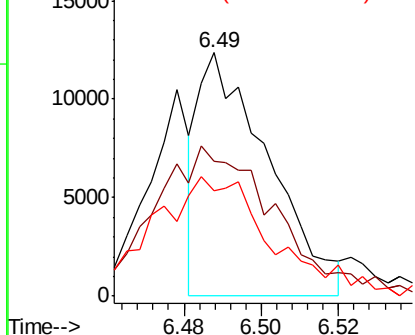
#32

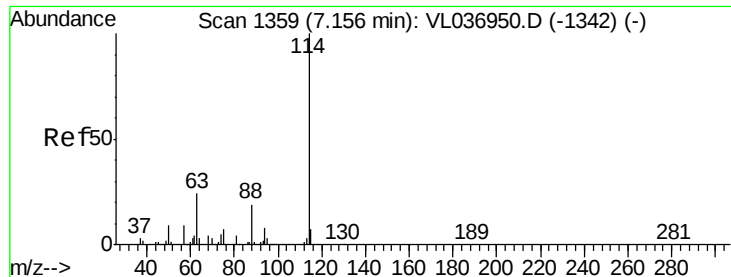
1,1,1-Trichloroethane
 Concen: 0.065 ppbv
 RT: 6.49 min Scan# 1151
 Delta R.T. -0.00 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

Tgt Ion:	97.00	Resp:	15507
Ion	Ratio	Lower	Upper
97	100		
99	110.4	51.9	77.9#
61	86.8	37.6	56.4#



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

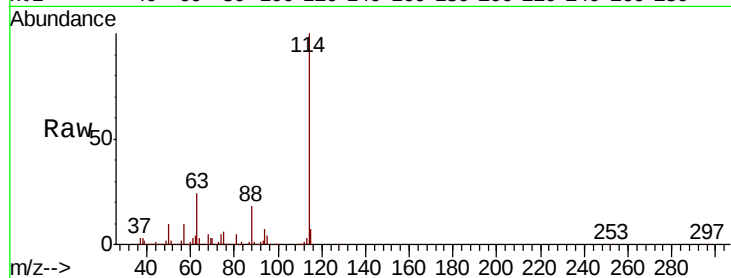




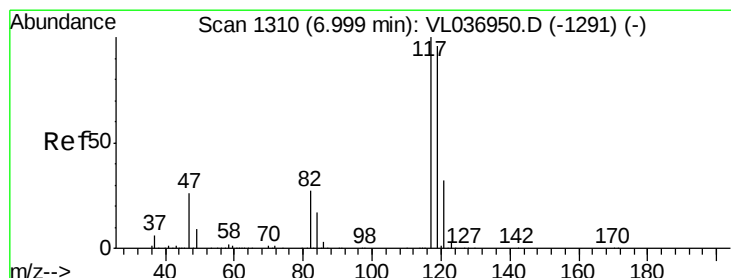
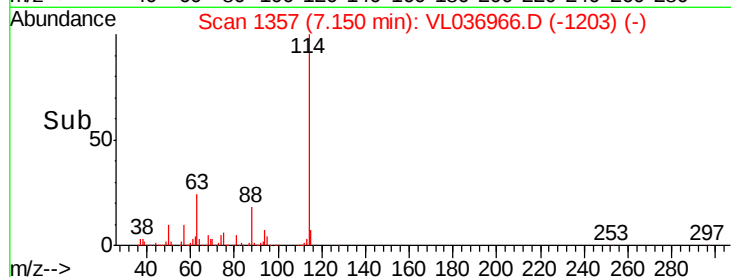
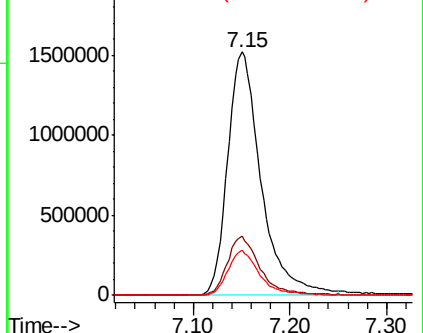
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

Tot Ion:114 Resp: 3657578
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.6 29.4
 88 17.9 14.6 21.8

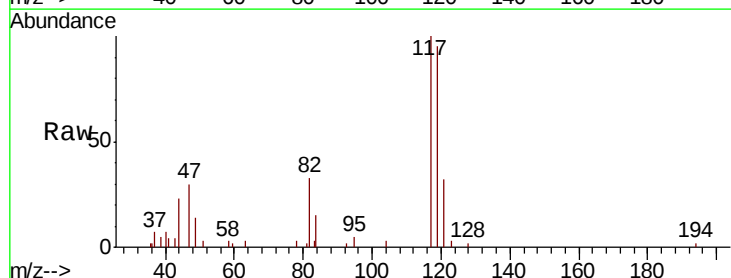


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

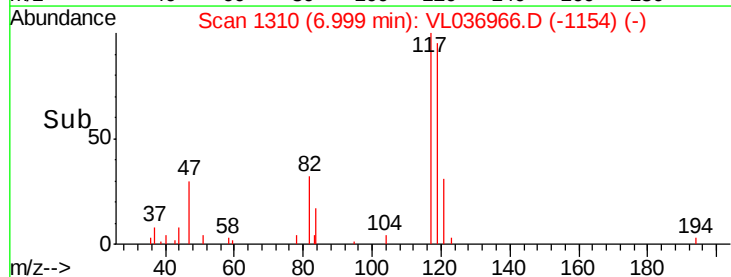
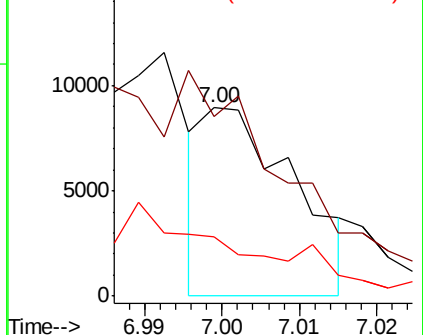


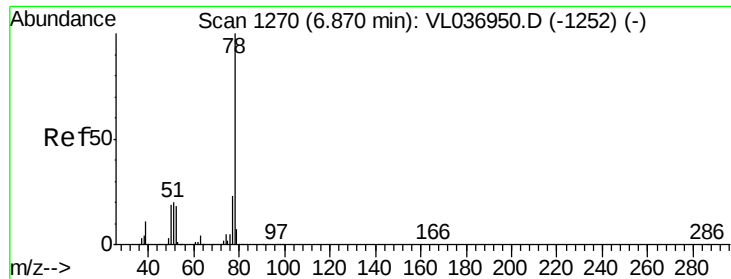
#35
 Carbon Tetrachloride
 Concen: 0.030 ppbv
 RT: 7.00 min Scan# 1310
 Delta R.T. -0.00 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

Tgt Ion:117 Resp: 7325
 Ion Ratio Lower Upper
 117 100
 119 106.6 76.6 114.8
 121 34.9 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V
 Ion 121.00 (120.70 to 121.70): V

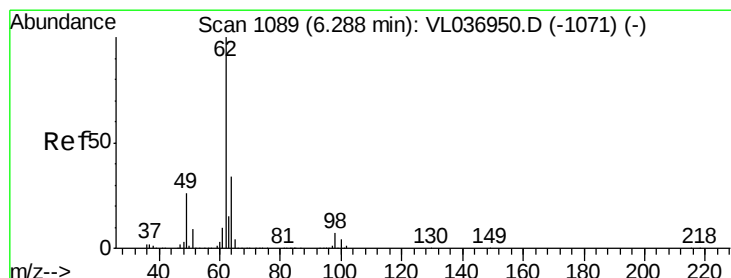
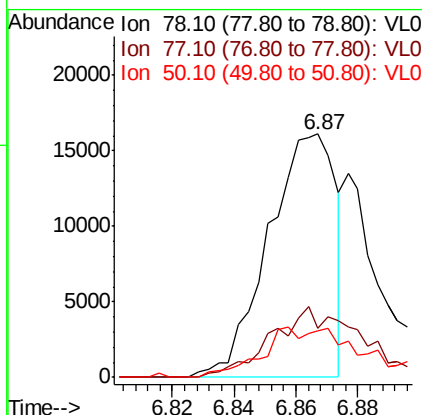
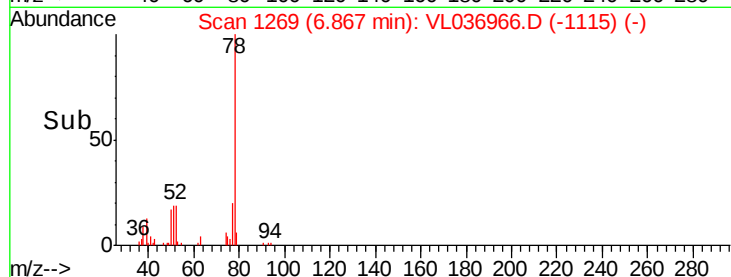
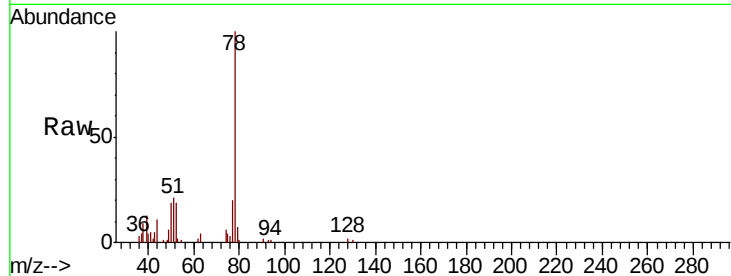




#36
Benzene
Concen: 0.077 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VL036966.D
Acq: 18 May 2021 13:14

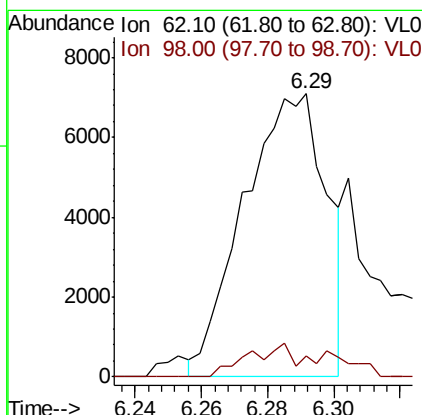
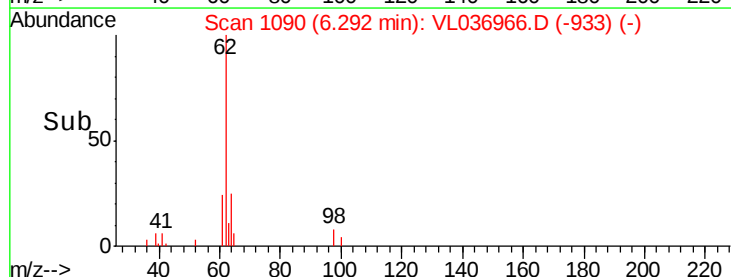
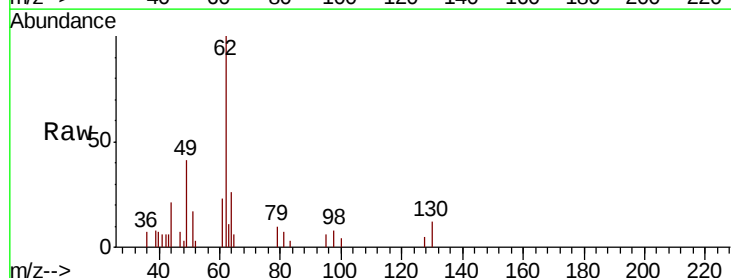
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2021

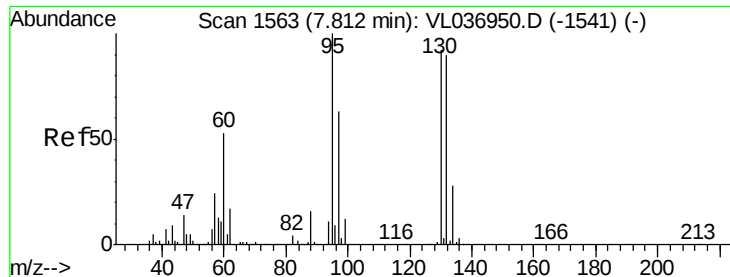
Tot Ion: 78 Resp: 24257
Ion Ratio Lower Upper
78 100
77 20.0 18.6 28.0
50 18.8 15.0 22.4



#37
1,2-Dichloroethane
Concen: 0.079 ppbv
RT: 6.29 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VL036966.D
Acq: 18 May 2021 13:14

Tgt Ion: 62 Resp: 12309
Ion Ratio Lower Upper
62 100
98 10.9 5.5 8.3#





#38

Trichloroethene

Concen: 0.065 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

Tot Ion:130 Resp: 8701

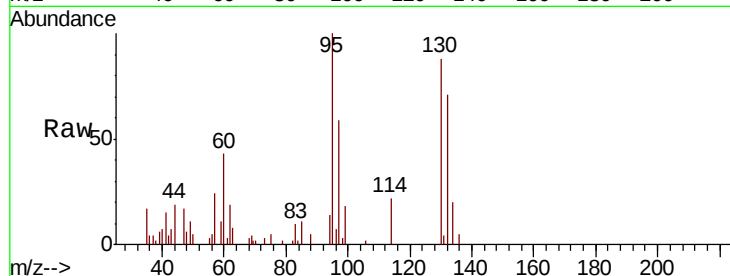
Ion Ratio Lower Upper

130 100

95 115.6 86.9 130.3

132 81.6 78.4 117.6

97 67.9 55.0 82.6

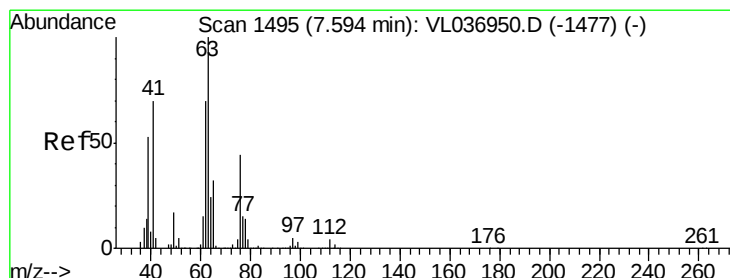
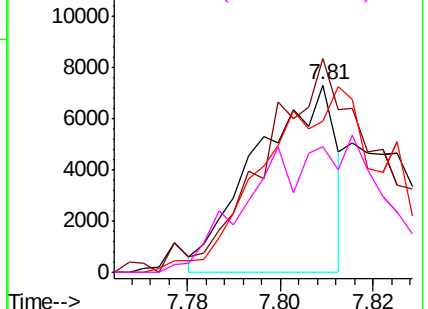
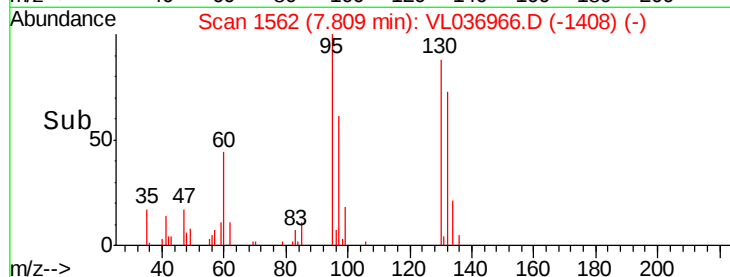


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.097 ppbv

RT: 7.59 min Scan# 1495

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

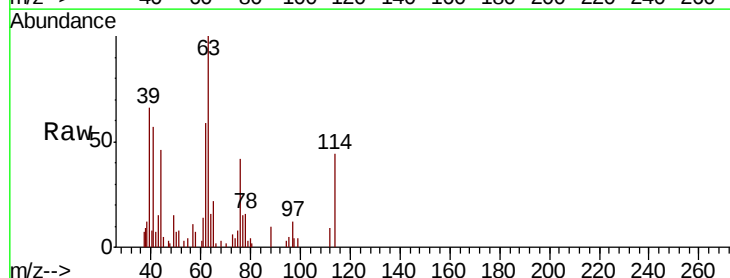
Tgt Ion: 63 Resp: 11814

Ion Ratio Lower Upper

63 100

41 43.8 55.7 83.5#

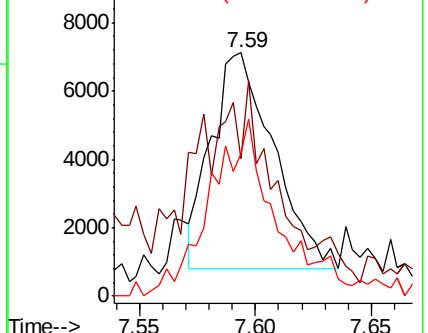
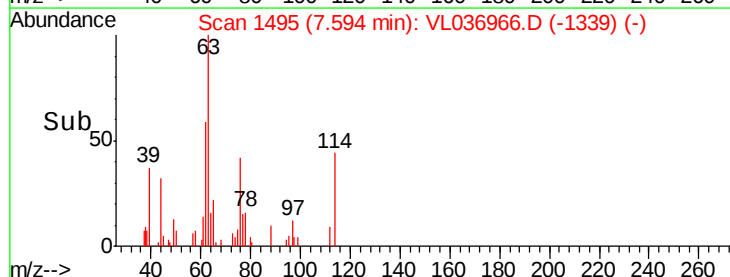
62 58.4 56.2 84.4

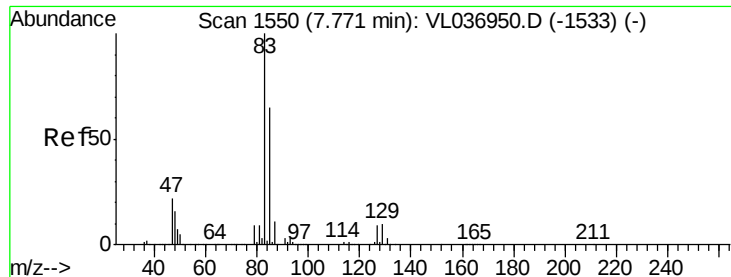


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.042 ppbv

RT: 7.76 min Scan# 1547

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

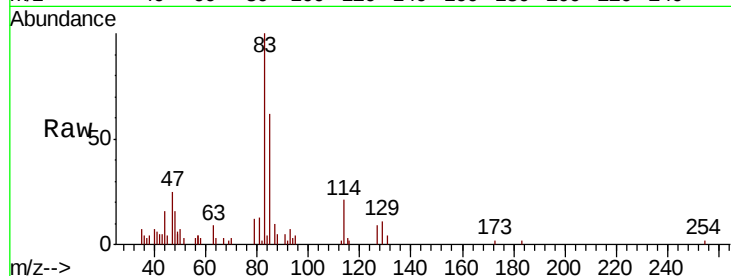
Tot Ion: 83 Resp: 9999

Ion Ratio Lower Upper

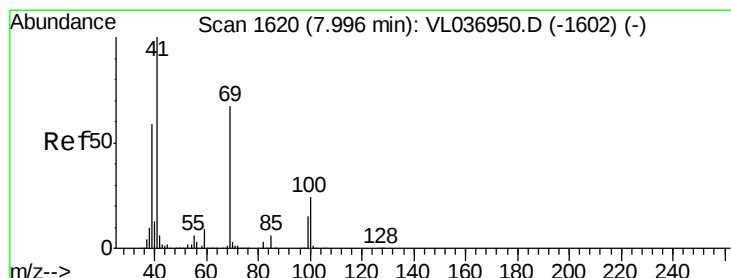
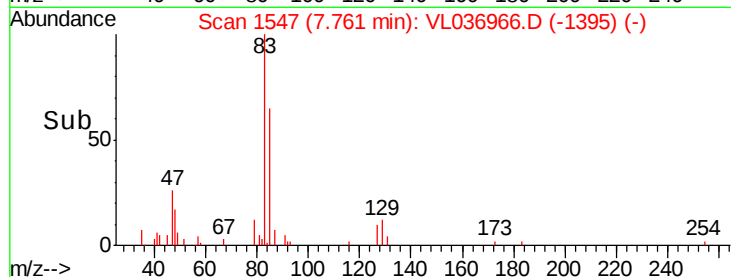
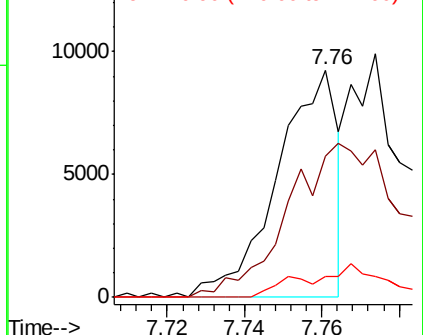
83 100

85 62.3 51.7 77.5

127 9.2 6.9 10.3



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.036 ppbv

RT: 8.00 min Scan# 1620

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

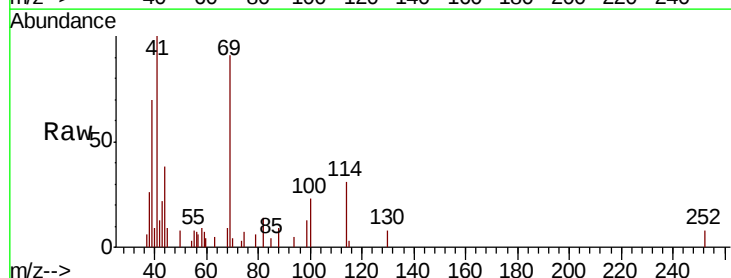
Tgt Ion: 69 Resp: 3939

Ion Ratio Lower Upper

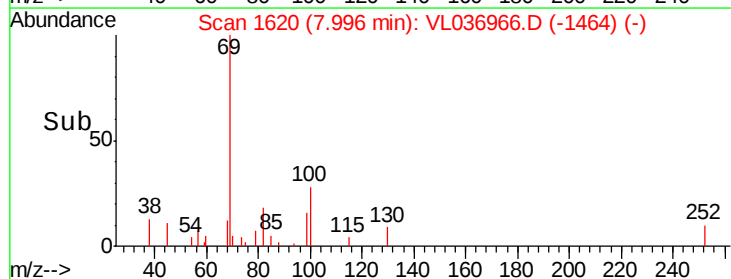
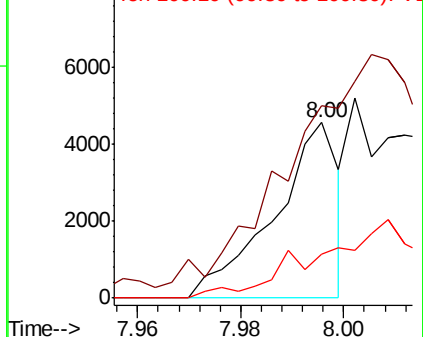
69 100

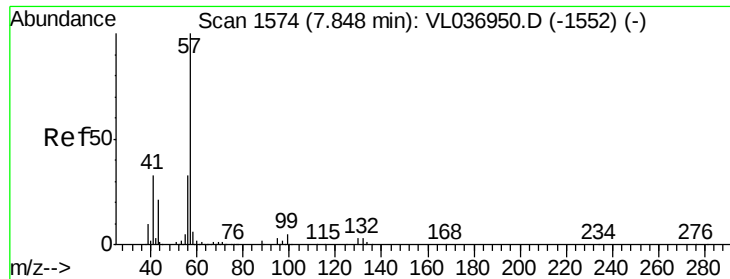
41 0.0 118.6 178.0#

100 0.0 28.2 42.4#



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

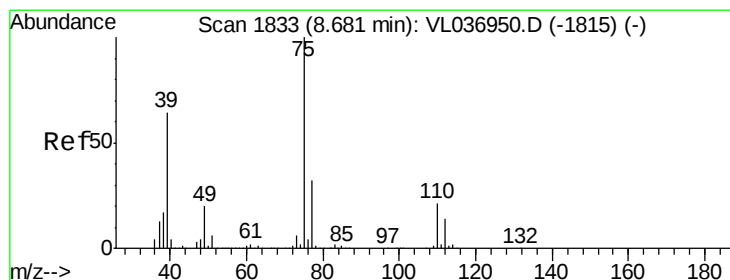
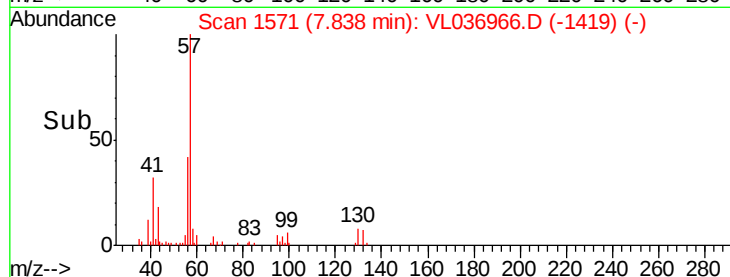
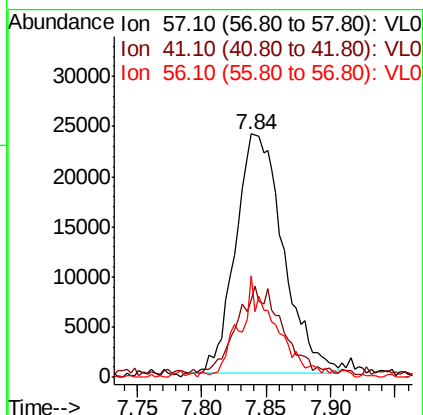
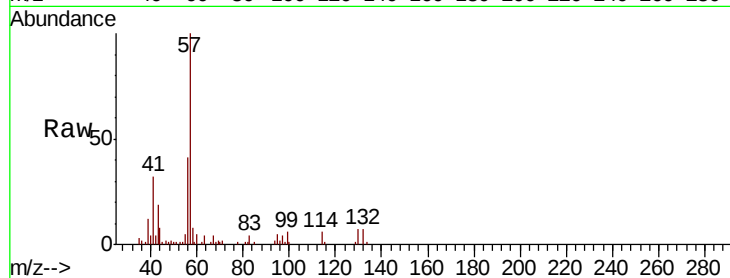




#44
 2,2,4-Trimethylpentane
 Concen: 0.114 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

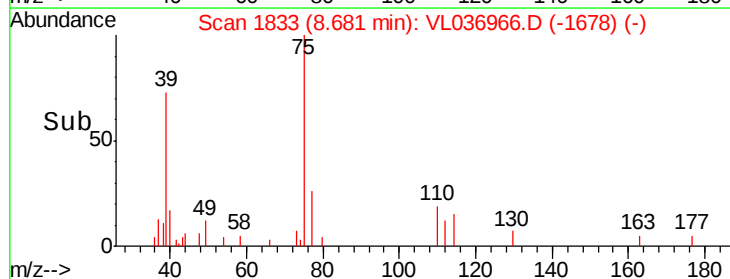
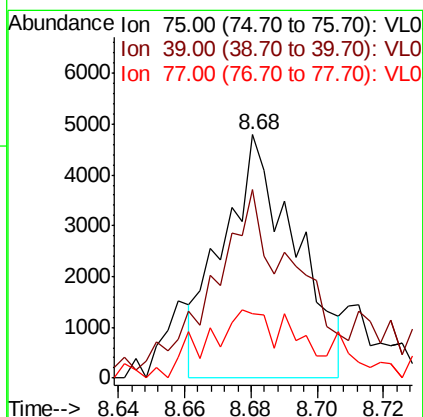
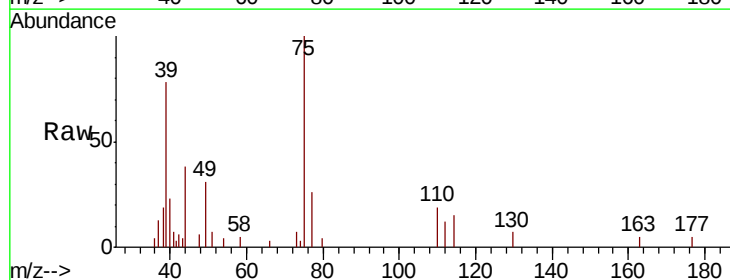
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

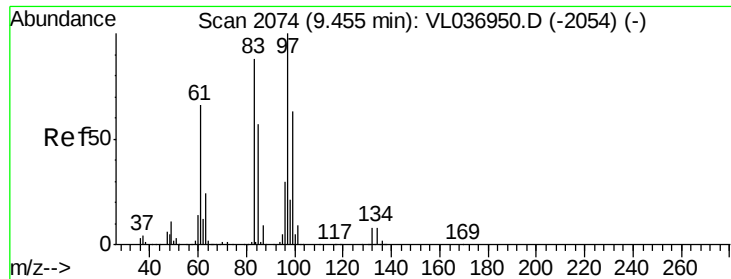
Tot Ion	57	Resp	61706
Ion	Ratio	Lower	Upper
57	100		
41	37.3	27.0	40.4
56	34.2	25.4	38.2



#46
 cis-1,3-Dichloropropene
 Concen: 0.065 ppbv
 RT: 8.68 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

Tgt Ion	75	Resp	7253
Ion	Ratio	Lower	Upper
75	100		
39	79.6	51.5	77.3#
77	10.0	25.9	38.9#





#47

1,1,2-Trichloroethane

Concen: 0.043 ppbv

RT: 9.45 min Scan# 2072

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

Tot Ion: 97 Resp: 5507

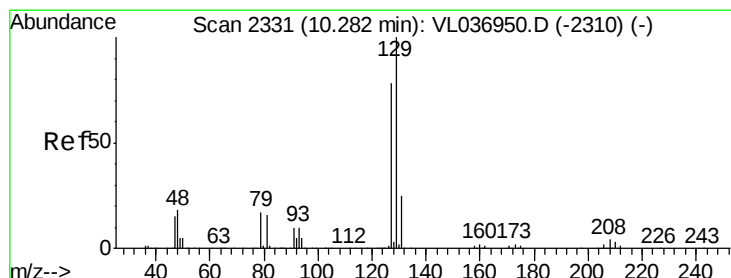
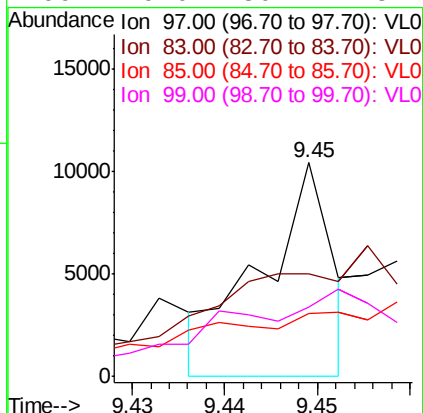
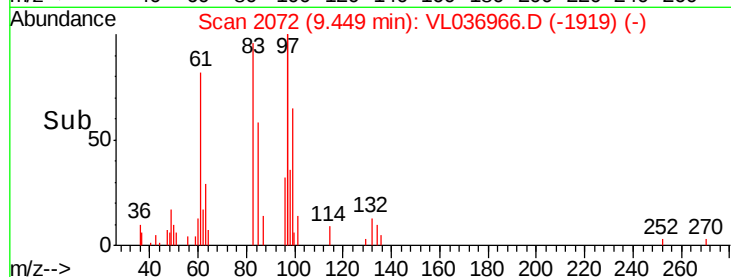
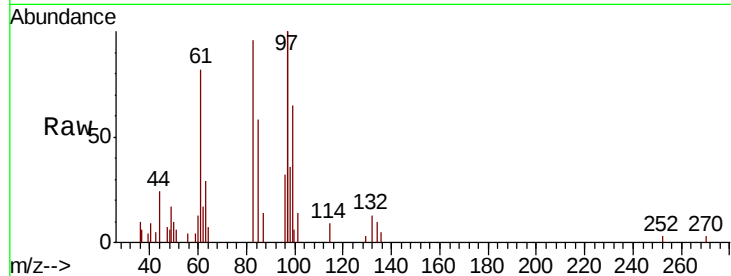
Ion Ratio Lower Upper

97 100

83 28.4 70.4 105.6#

85 11.1 45.5 68.3#

99 29.0 50.2 75.2#



#48

Dibromochloromethane

Concen: 0.052 ppbv

RT: 10.28 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VL036966.D

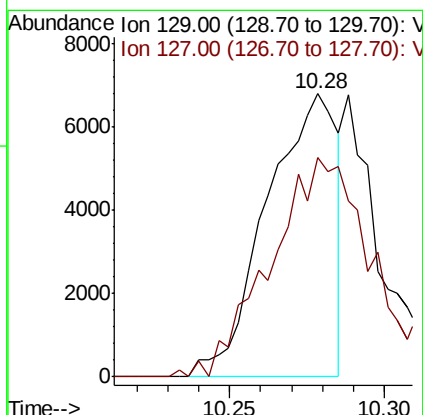
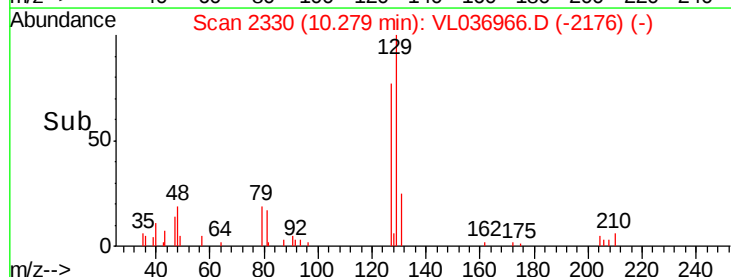
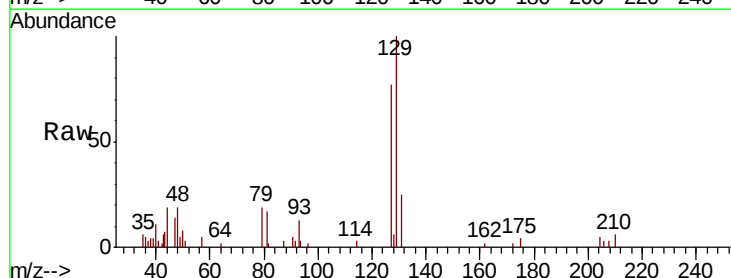
Acq: 18 May 2021 13:14

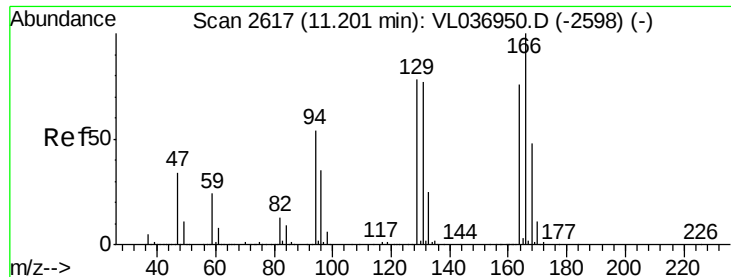
Tgt Ion: 129 Resp: 10707

Ion Ratio Lower Upper

129 100

127 119.5 39.3 117.8#





#52

Tetrachloroethene

Concen: 0.068 ppbv

RT: 11.19 min Scan# 2615

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

Tot Ion:164 Resp: 8544

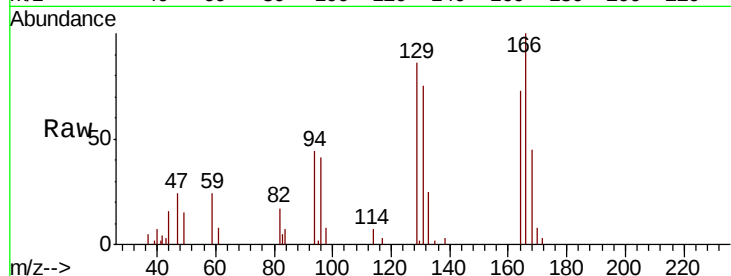
Ion Ratio Lower Upper

164 100

166 137.5 105.5 158.3

129 118.1 81.8 122.8

131 102.5 81.2 121.8

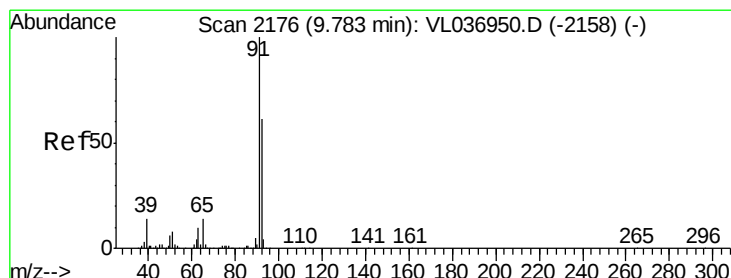
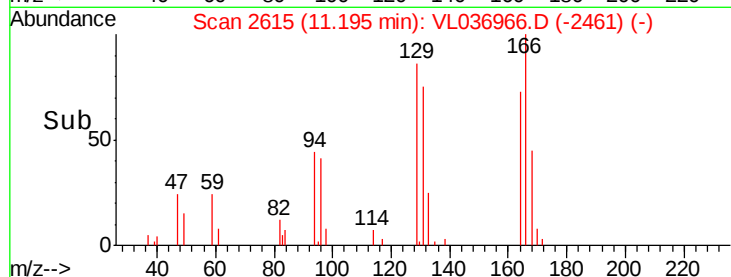
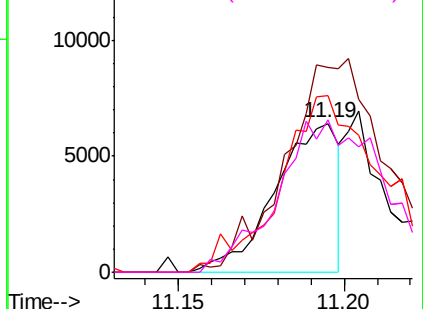


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.051 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL036966.D

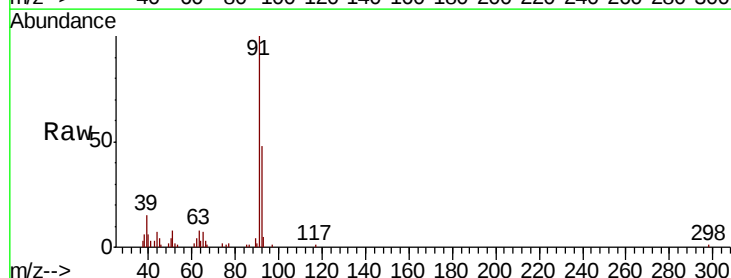
Acq: 18 May 2021 13:14

Tgt Ion: 91 Resp: 19224

Ion Ratio Lower Upper

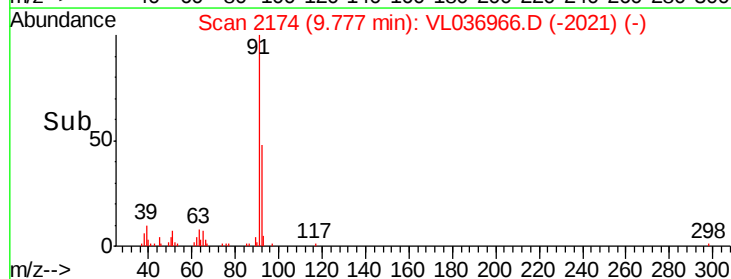
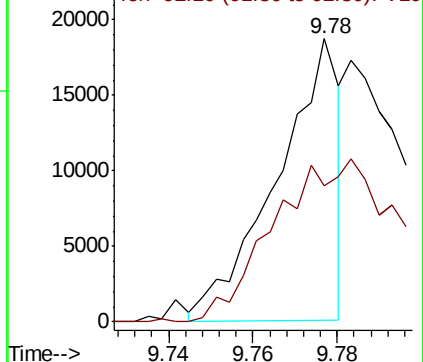
91 100

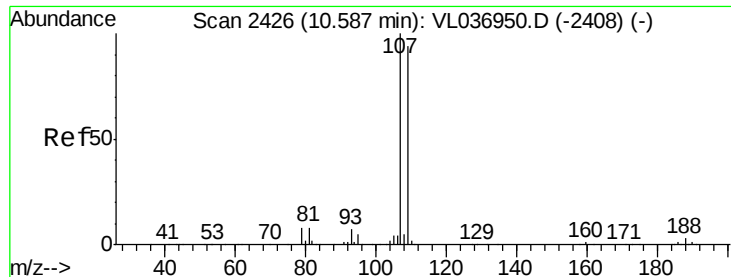
92 0.0 49.5 74.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.047 ppbv

RT: 10.58 min Scan# 2424

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

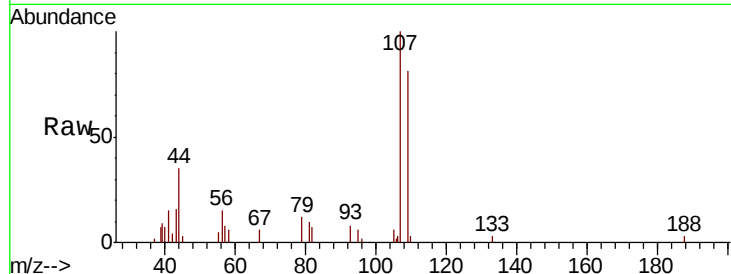
LOD-MDL-AIR-01-QT2-2021

Tot Ion:107 Resp: 8459

Ion Ratio Lower Upper

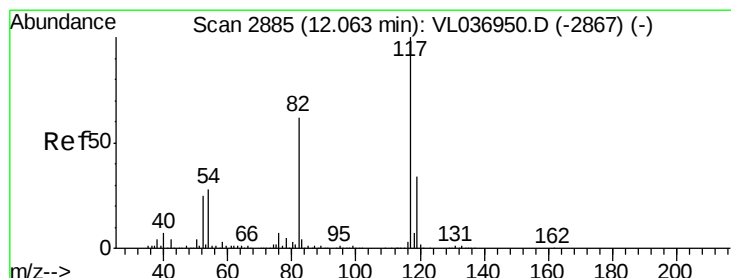
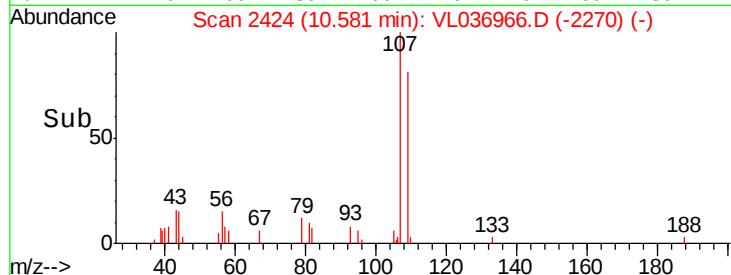
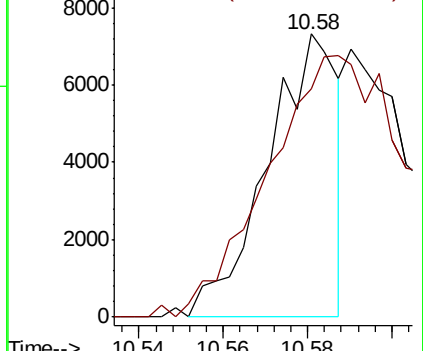
107 100

109 76.0 75.0 112.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

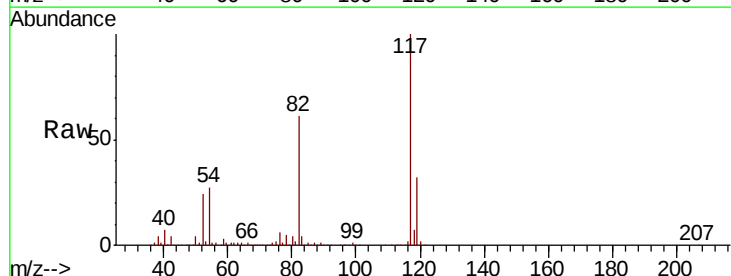
Tgt Ion:117 Resp: 3382120

Ion Ratio Lower Upper

117 100

82 62.6 52.6 79.0

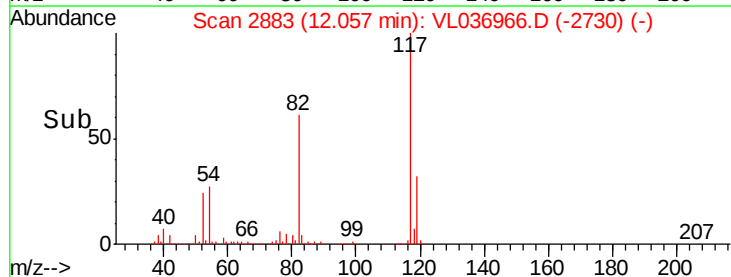
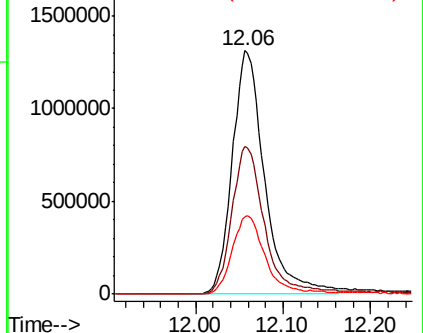
119 33.6 46.6 70.0#

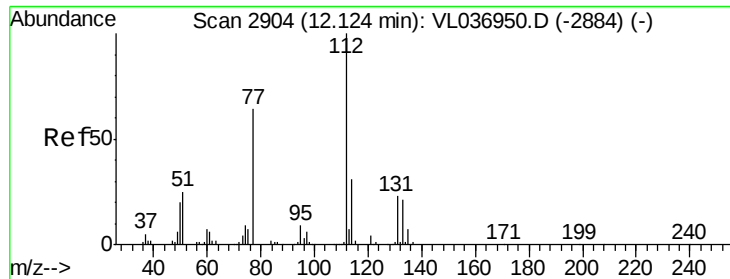


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

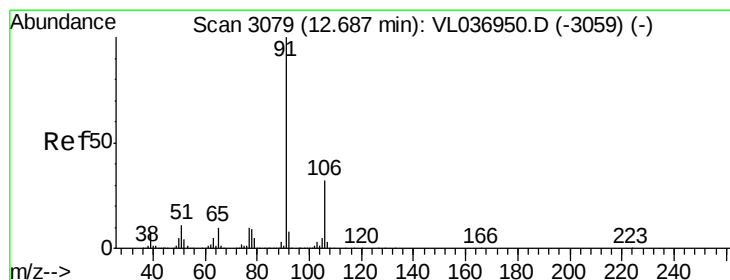
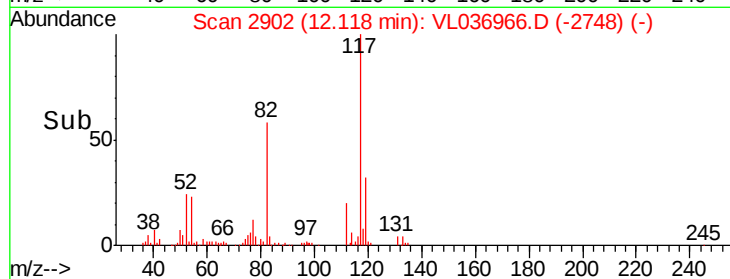
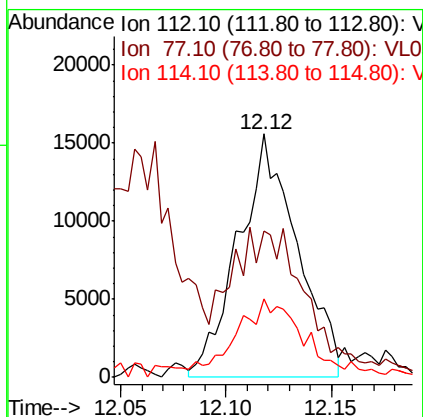
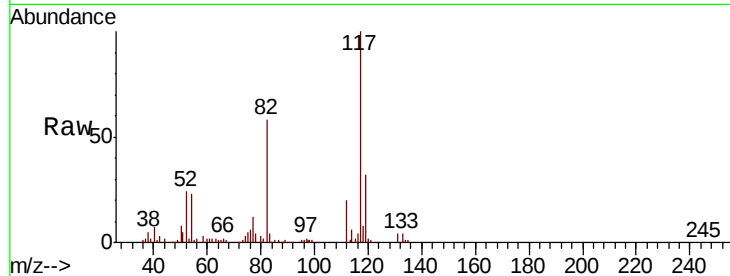




#57
Chlorobenzene
Concen: 0.116 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.01 min
Lab File: VL036966.D
Acq: 18 May 2021 13:14

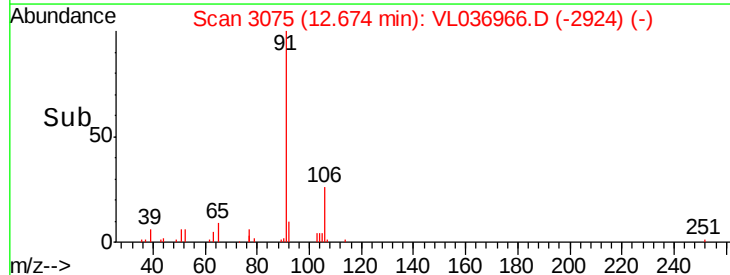
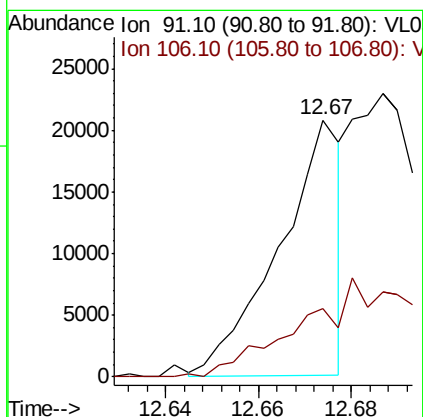
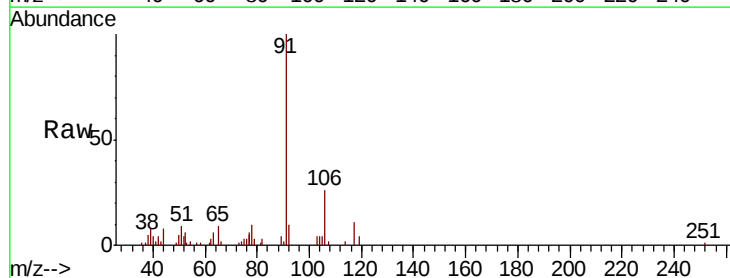
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2021

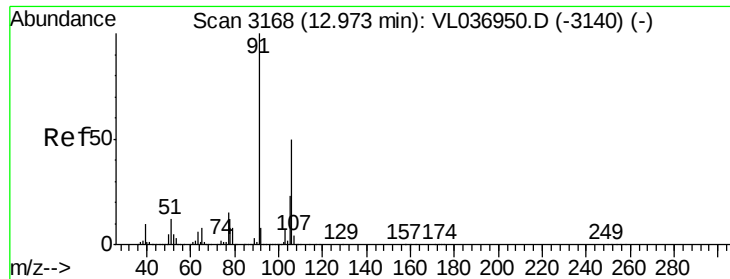
Tot Ion:112 Resp: 30339
Ion Ratio Lower Upper
112 100
77 49.5 51.0 76.6#
114 29.6 28.3 34.5



#58
Ethyl Benzene
Concen: 0.040 ppbv
RT: 12.67 min Scan# 3075
Delta R.T. -0.01 min
Lab File: VL036966.D
Acq: 18 May 2021 13:14

Tgt Ion: 91 Resp: 19164
Ion Ratio Lower Upper
91 100
106 25.6 25.6 38.4





#59

m/p-Xylene

Concen: 0.063 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

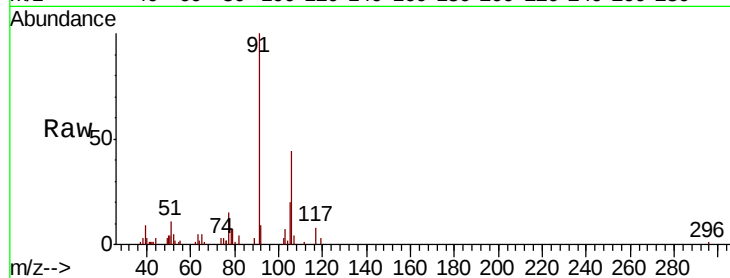
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 91 Resp: 24773

Ion Ratio Lower Upper

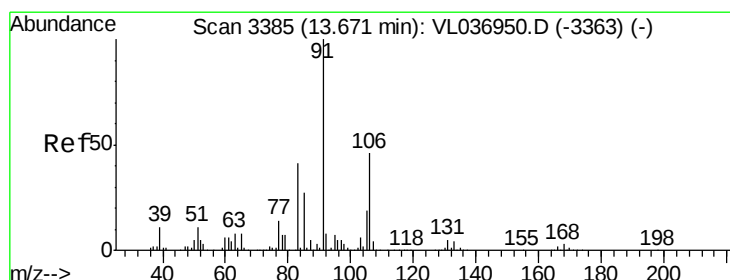
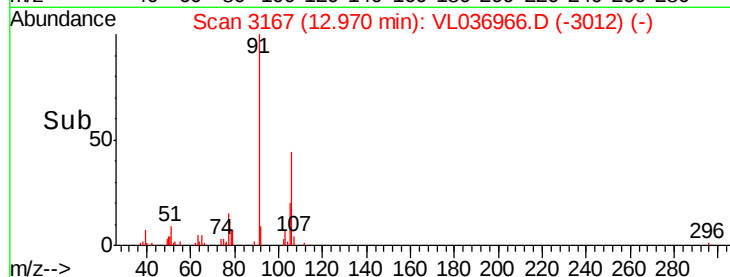
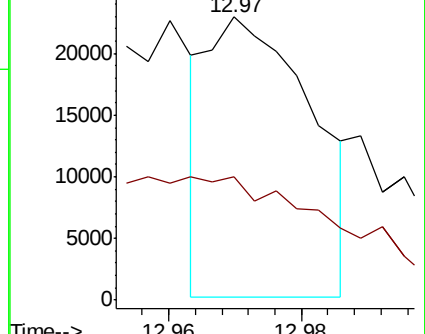
91 100

106 0.0 37.4 56.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.122 ppbv

RT: 13.66 min Scan# 3383

Delta R.T. -0.01 min

Lab File: VL036966.D

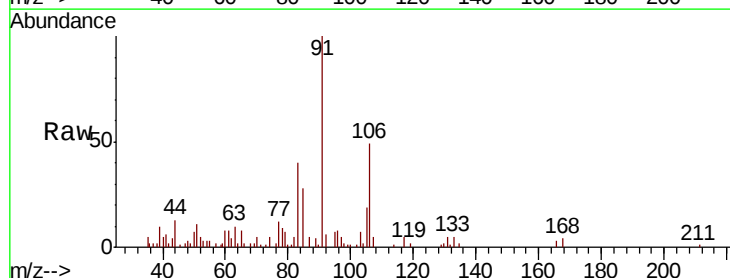
Acq: 18 May 2021 13:14

Tgt Ion: 91 Resp: 45730

Ion Ratio Lower Upper

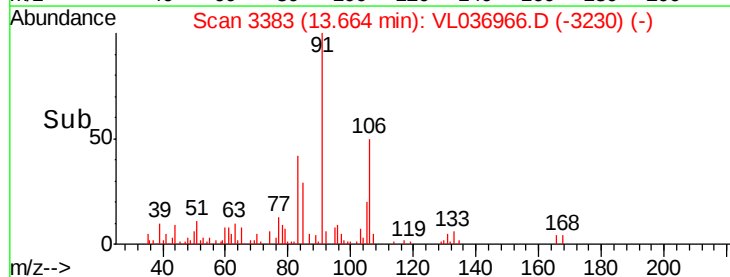
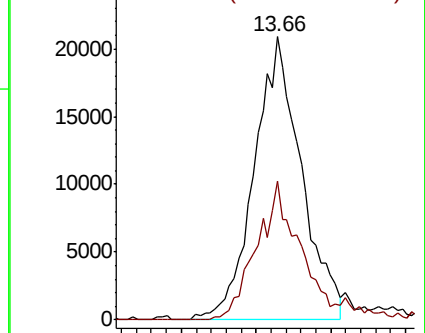
91 100

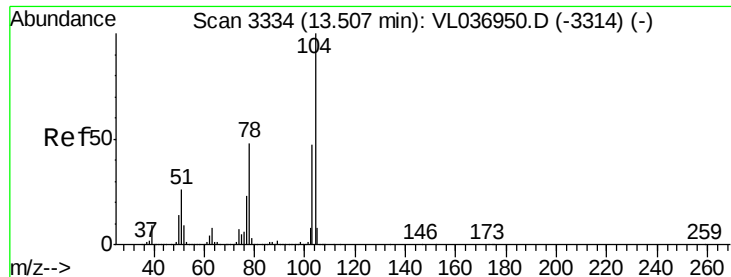
106 48.3 23.4 70.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.051 ppbv

RT: 13.50 min Scan# 3332

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

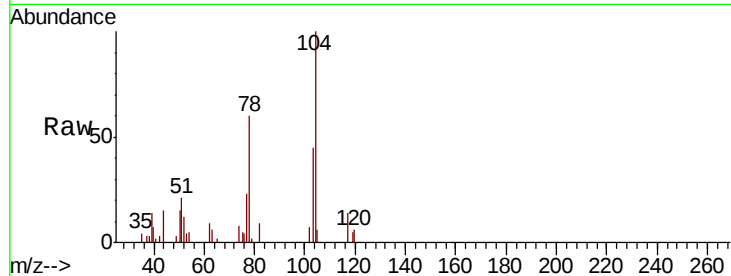
Tot Ion:104 Resp: 10823

Ion Ratio Lower Upper

104 100

78 115.9 39.0 58.6#

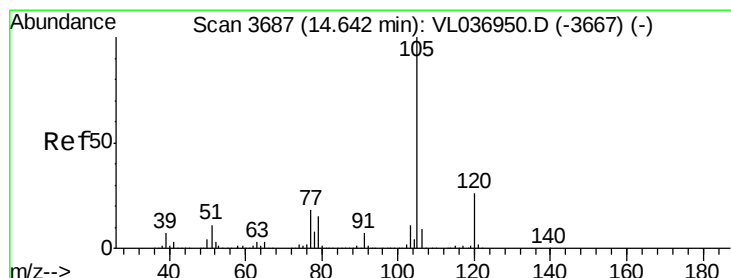
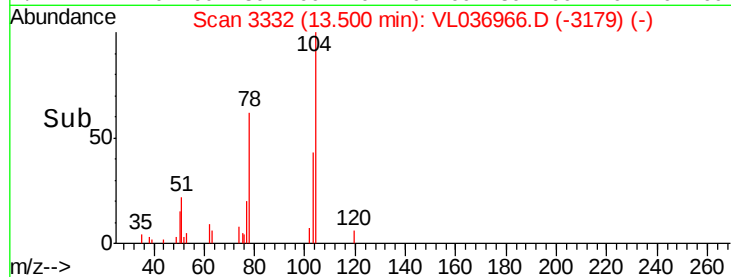
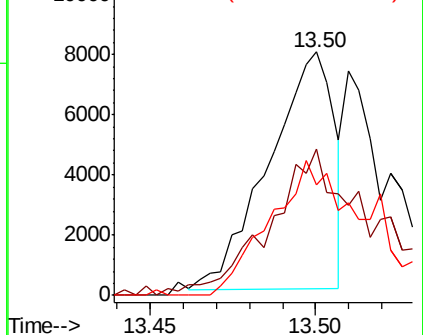
103 92.9 38.0 57.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.041 ppbv

RT: 14.63 min Scan# 3684

Delta R.T. -0.01 min

Lab File: VL036966.D

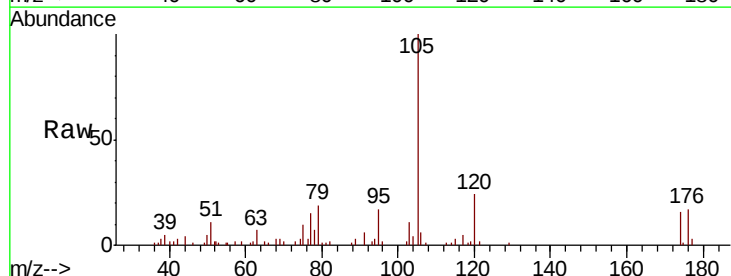
Acq: 18 May 2021 13:14

Tgt Ion:105 Resp: 22051

Ion Ratio Lower Upper

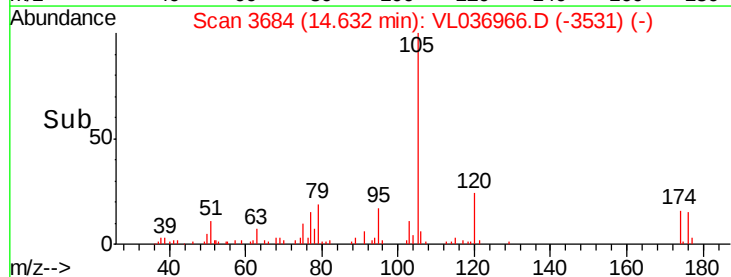
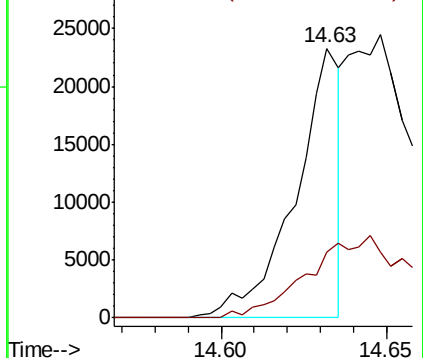
105 100

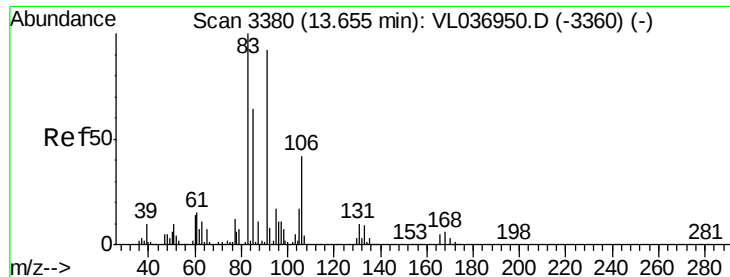
120 0.0 21.7 32.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.064 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. 0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

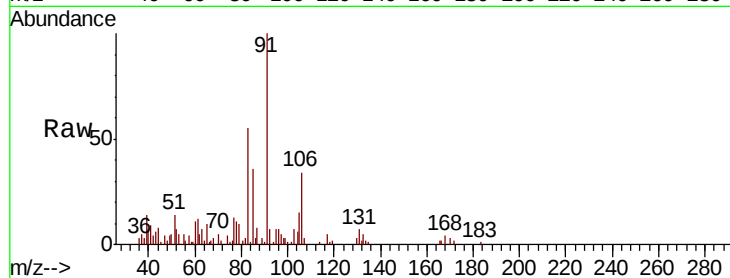
Tot Ion: 83 Resp: 17973

Ion Ratio Lower Upper

83 100

131 17.9 5.0 15.0#

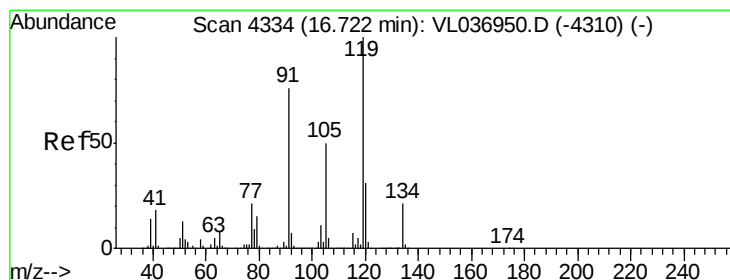
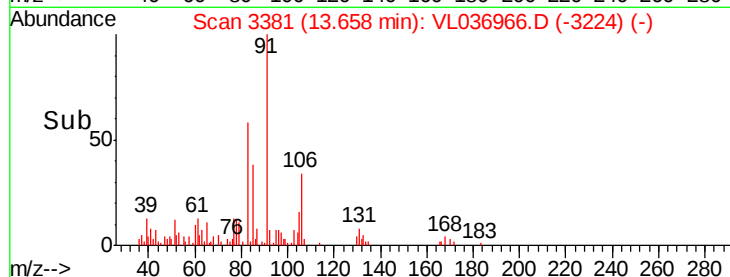
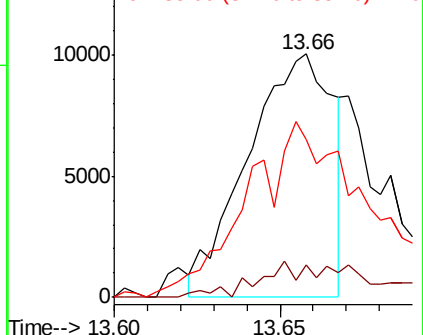
85 110.2 32.9 98.6#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#65

tert-Butylbenzene

Concen: 0.062 ppbv

RT: 16.72 min Scan# 4334

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

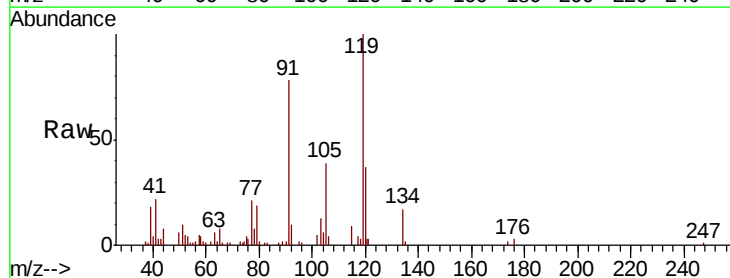
Tgt Ion: 119 Resp: 30150

Ion Ratio Lower Upper

119 100

91 0.0 61.9 92.9#

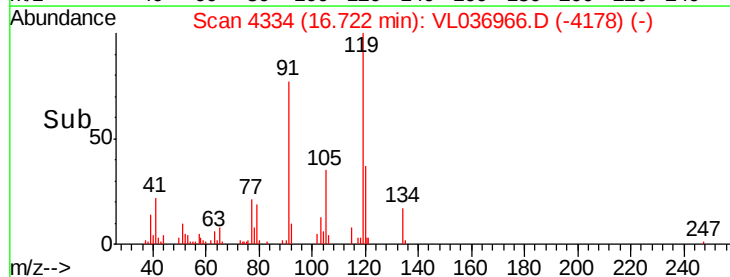
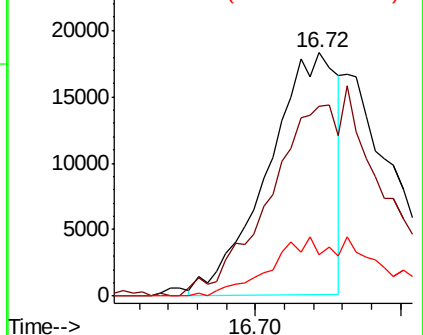
134 0.0 16.2 24.4#

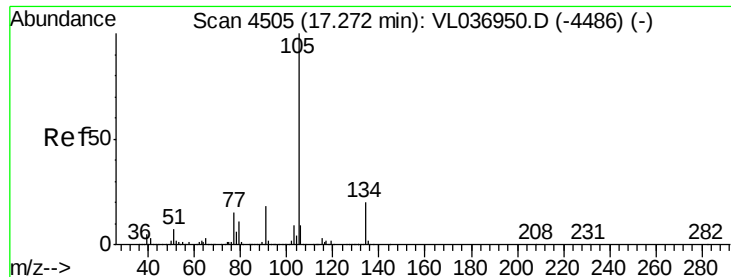


Abundance Ion 119.20 (118.90 to 119.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): VL0





#67

sec-Butylbenzene

Concen: 0.102 ppbv

RT: 17.28 min Scan# 4506

Delta R.T. 0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

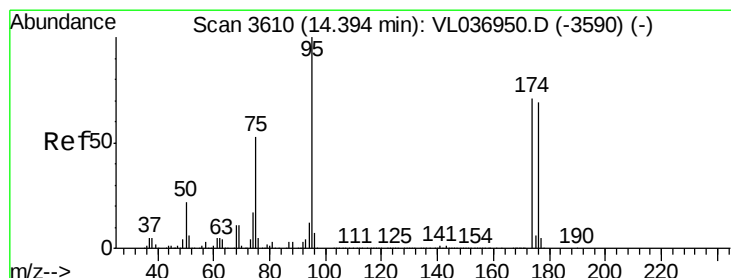
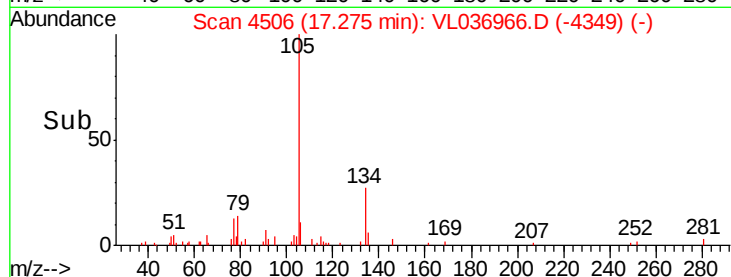
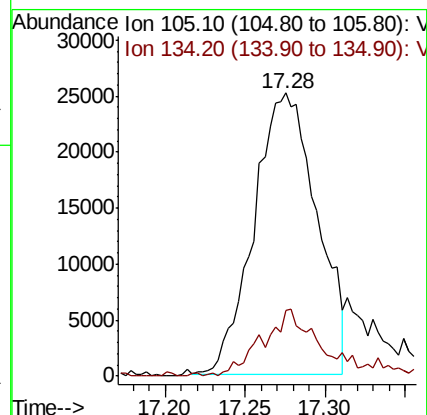
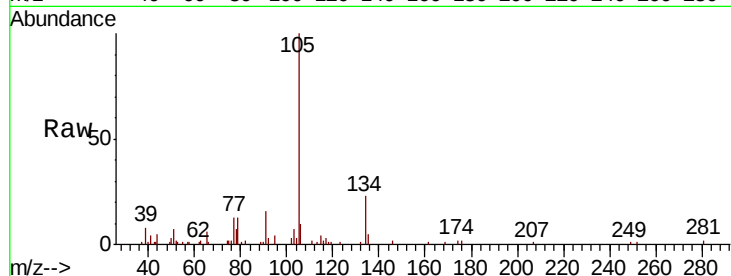
LOD-MDL-AIR-01-QT2-2021

Tot Ion:105 Resp: 67879

Ion Ratio Lower Upper

105 100

134 24.0 15.6 23.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.131 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

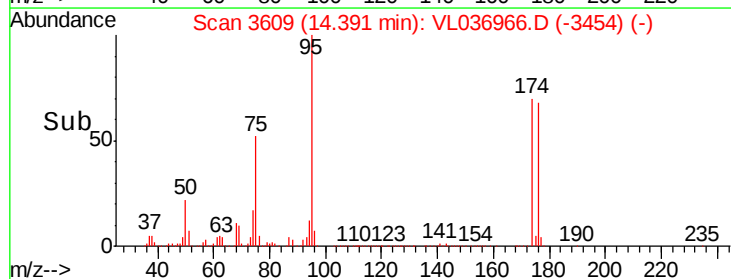
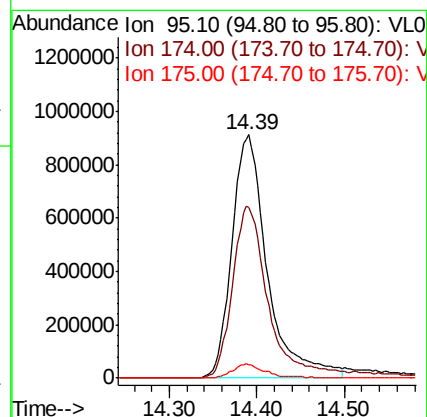
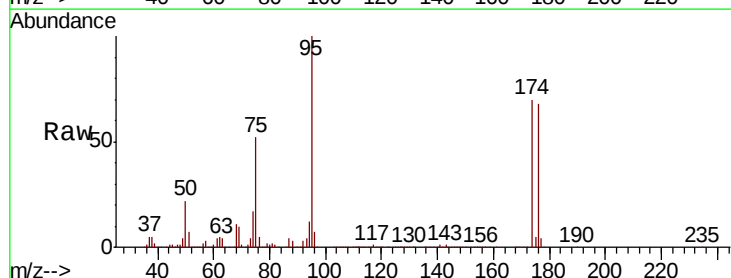
Tgt Ion: 95 Resp: 2573893

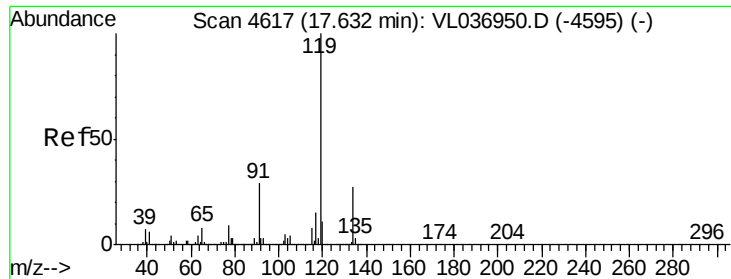
Ion Ratio Lower Upper

95 100

174 75.1 58.4 87.6

175 5.8 4.4 6.6

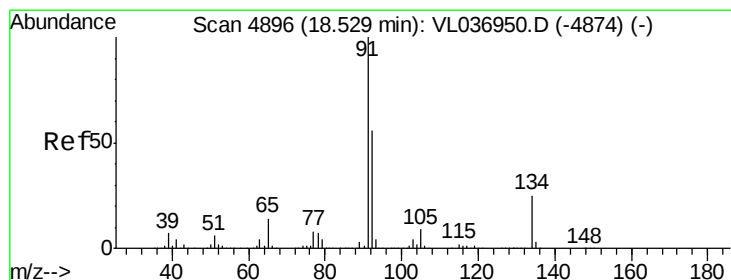
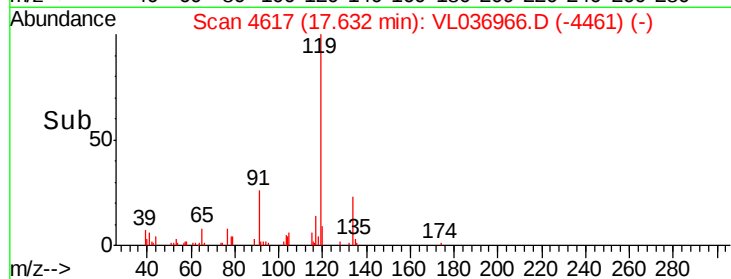
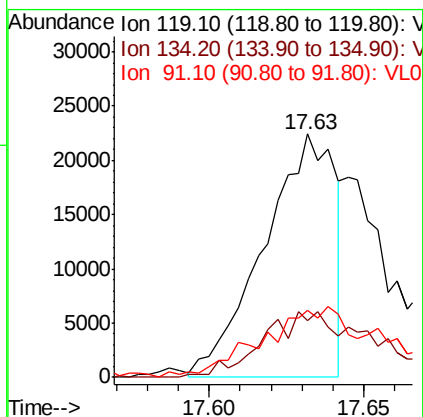
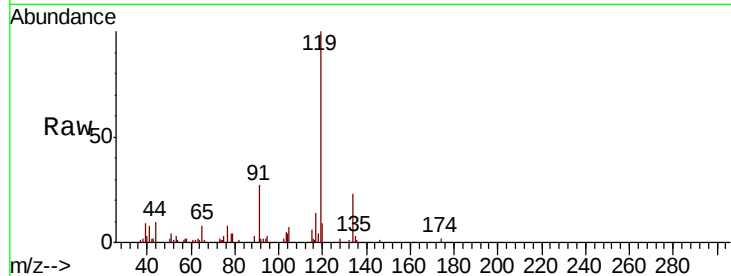




#69
 p-Isopropyltoluene
 Concen: 0.063 ppbv
 RT: 17.63 min Scan# 4617
 Delta R.T. -0.00 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

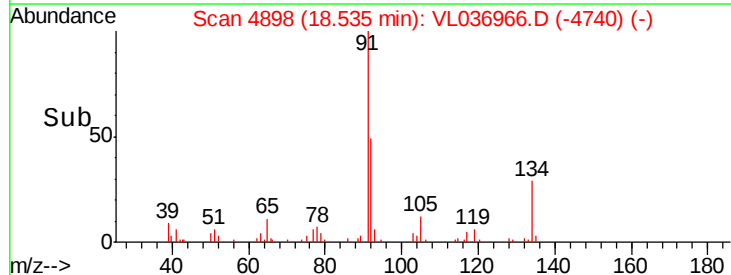
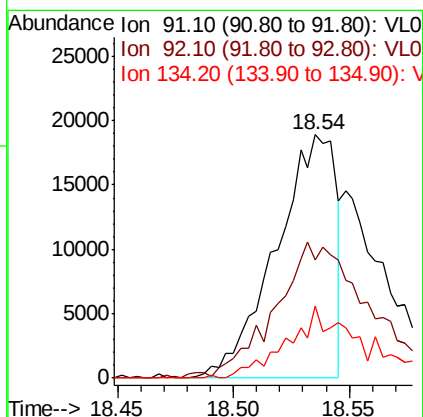
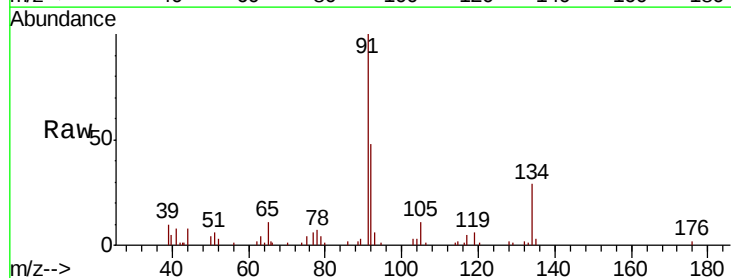
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

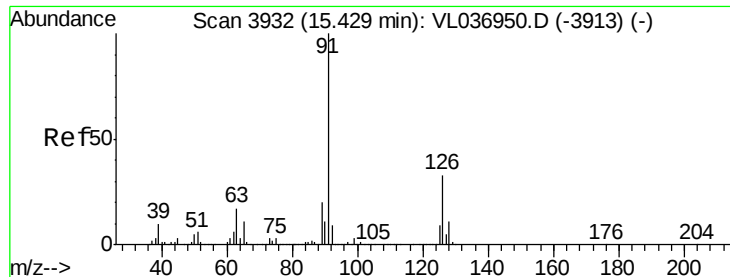
Tot Ion	Ratio	Lower	Upper
119	100		
134	46.1	21.2	31.8#
91	0.0	22.2	33.4#



#70
 n-Butylbenzene
 Concen: 0.062 ppbv
 RT: 18.54 min Scan# 4898
 Delta R.T. 0.01 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	93.0	44.6	66.8#
134	38.3	20.2	30.2#





#71

2-Chlorotoluene

Concen: 0.104 ppbv

RT: 15.43 min Scan# 3932

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

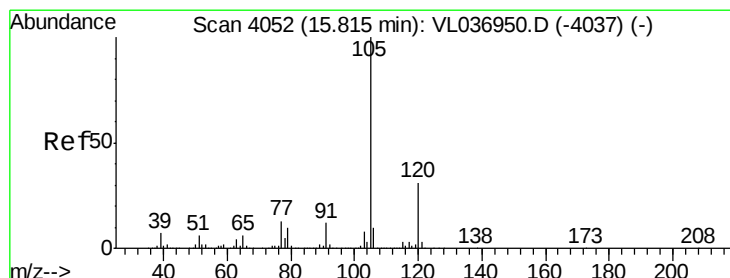
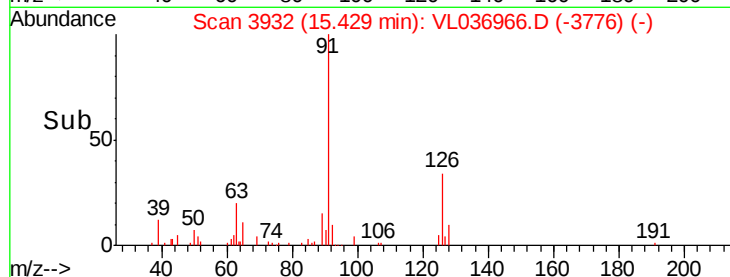
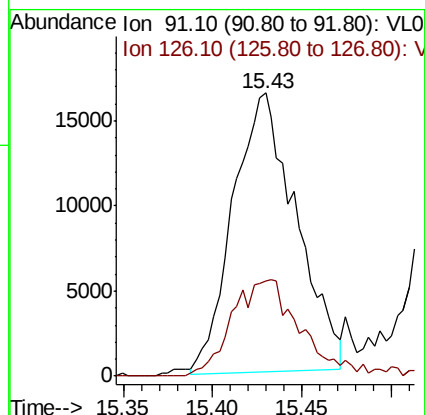
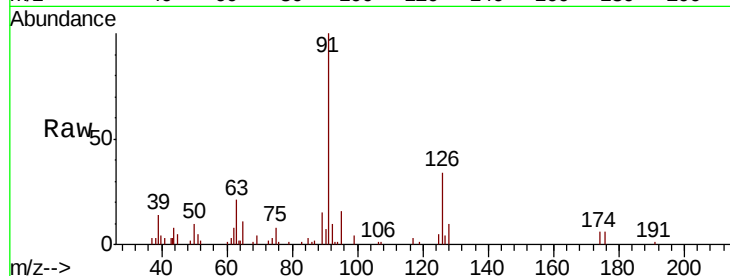
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 91 Resp: 40515

Ion Ratio Lower Upper

91 100

126 36.6 13.1 52.5



#72

4-Ethyltoluene

Concen: 0.051 ppbv

RT: 15.81 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Tgt Ion:105 Resp: 22699

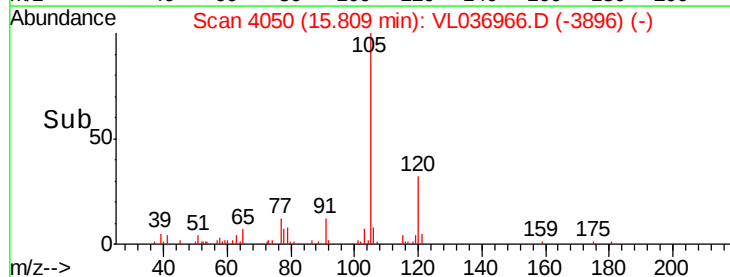
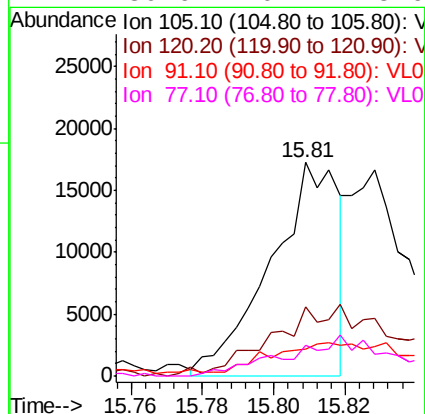
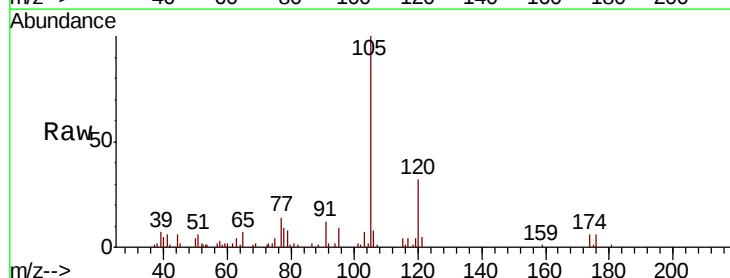
Ion Ratio Lower Upper

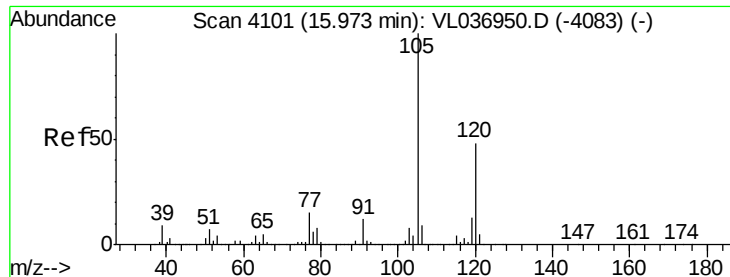
105 100

120 67.0 24.6 37.0#

91 40.6 9.8 14.6#

77 30.6 10.4 15.6#

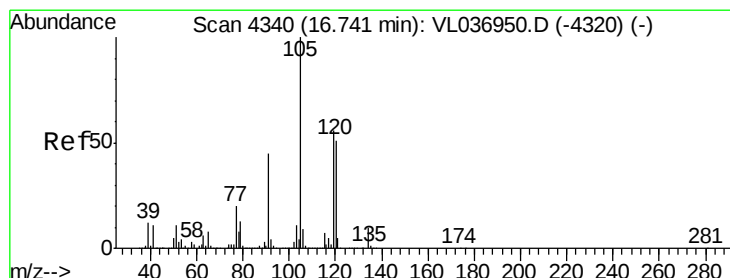
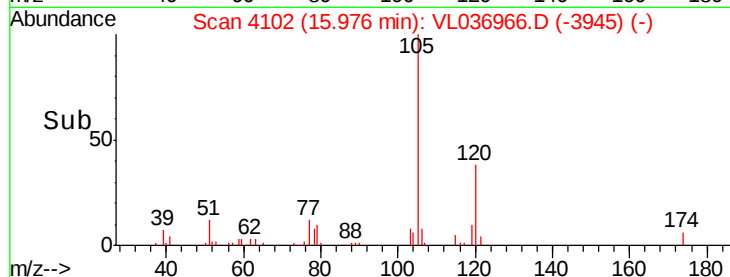
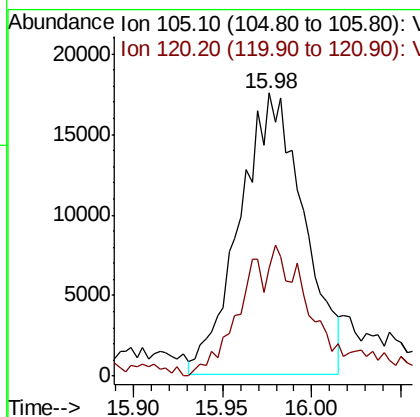
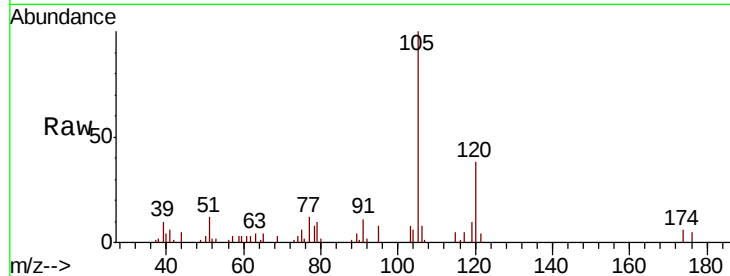




#73
 1,3,5-Trimethylbenzene
 Concen: 0.105 ppbv
 RT: 15.98 min Scan# 4102
 Delta R.T. 0.00 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

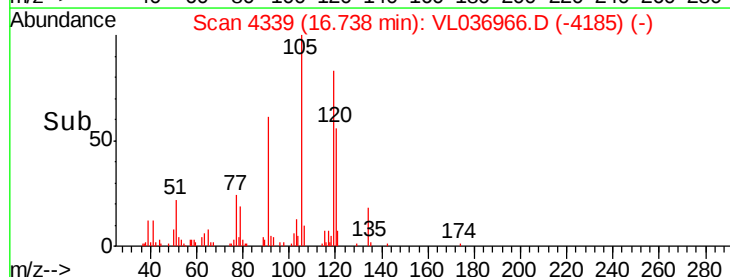
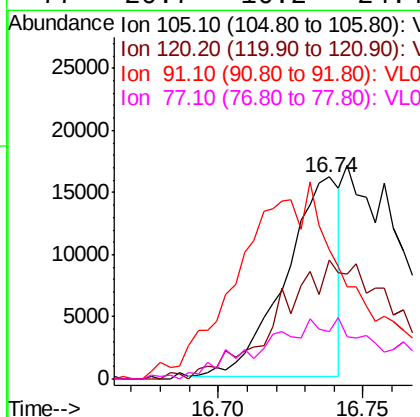
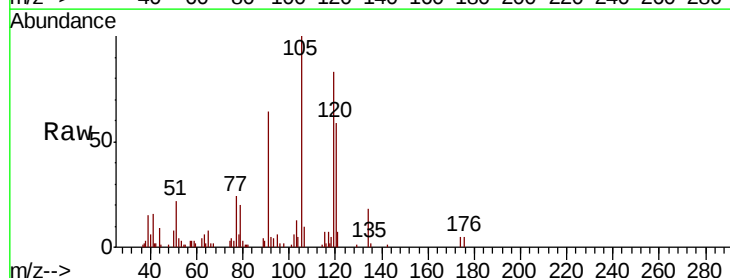
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

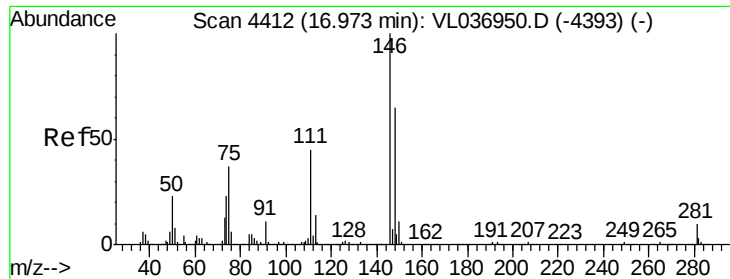
Tot Ion:105 Resp: 43959
 Ion Ratio Lower Upper
 105 100
 120 40.4 38.6 58.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.048 ppbv
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.00 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

Tgt Ion:105 Resp: 20766
 Ion Ratio Lower Upper
 105 100
 120 59.3 40.6 61.0
 91 47.7 37.4 56.0
 77 20.7 16.2 24.4





#75

1,3-Dichlorobenzene

Concen: 0.047 ppbv

RT: 16.97 min Scan# 4411

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

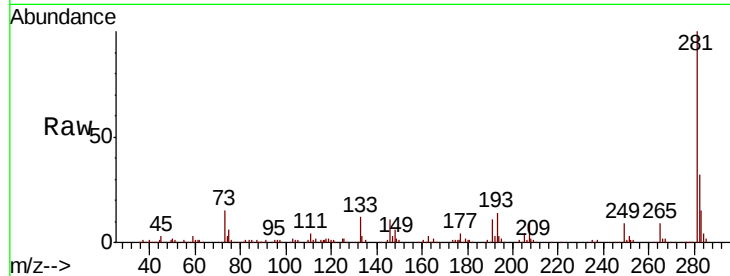
Tot Ion:146 Resp: 12365

Ion Ratio Lower Upper

146 100

111 129.2 22.2 66.6#

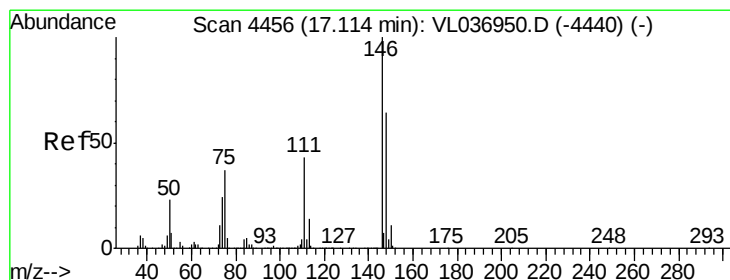
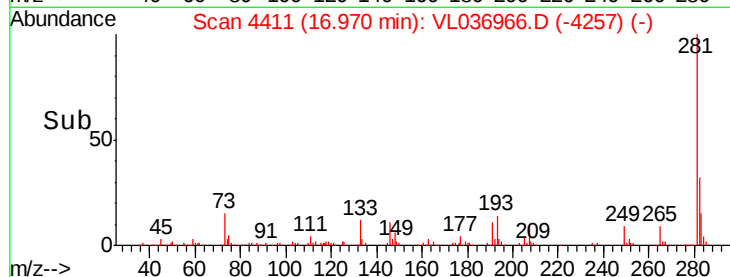
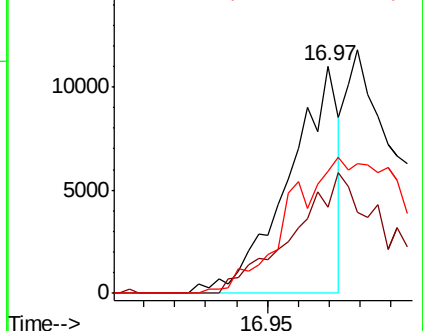
148 175.3 32.3 96.8#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.033 ppbv

RT: 17.11 min Scan# 4455

Delta R.T. -0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

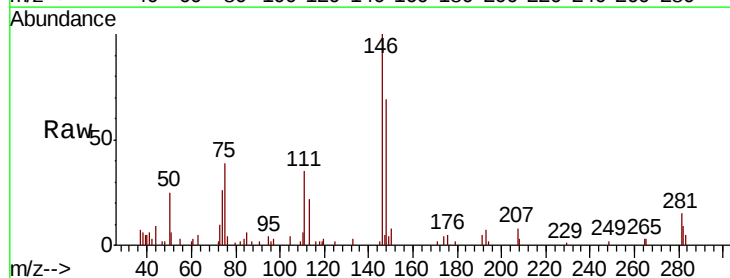
Tgt Ion:146 Resp: 8742

Ion Ratio Lower Upper

146 100

111 0.0 22.6 67.7#

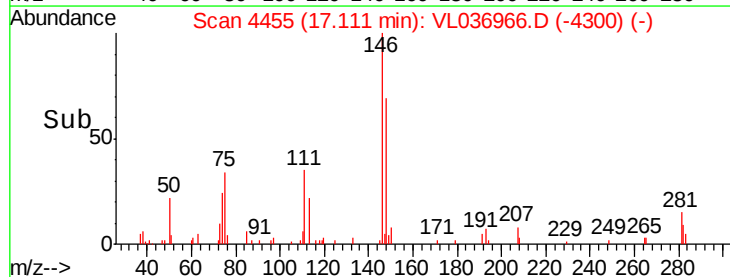
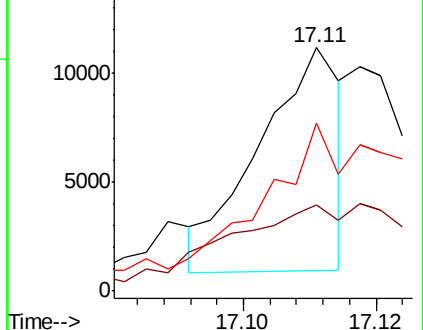
148 254.9 33.5 100.5#

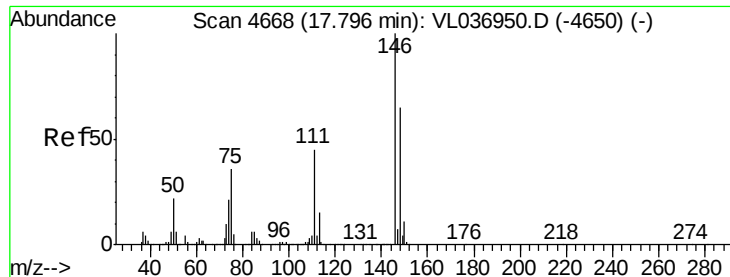


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

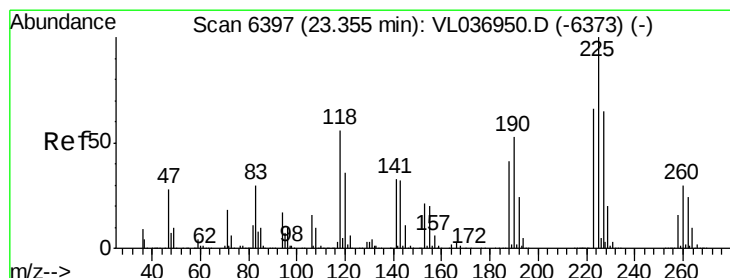
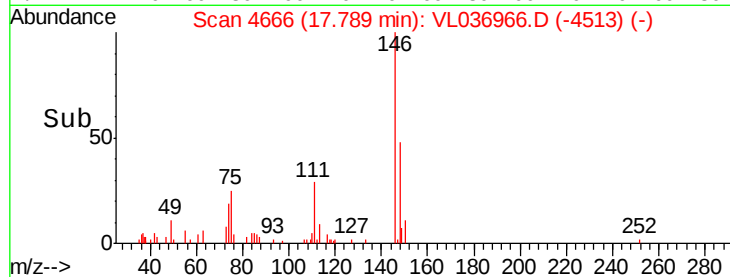
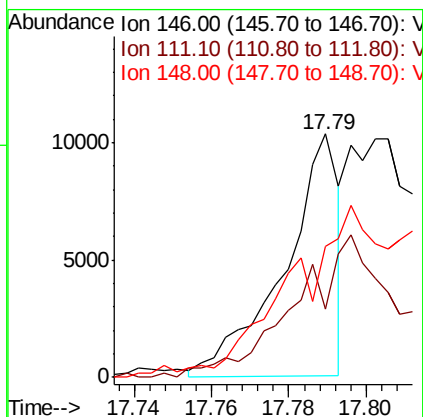
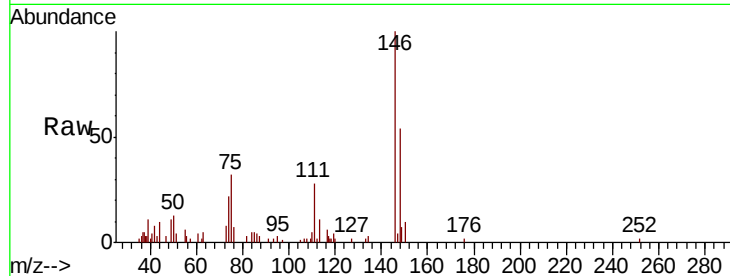




#77
 1,2-Dichlorobenzene
 Concen: 0.038 ppbv
 RT: 17.79 min Scan# 4666
 Delta R.T. -0.01 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

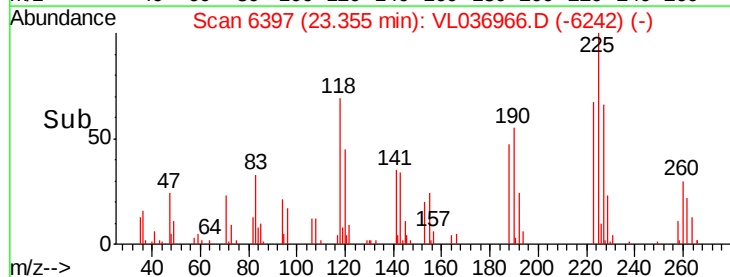
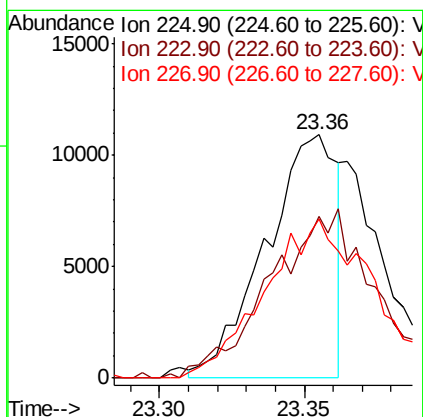
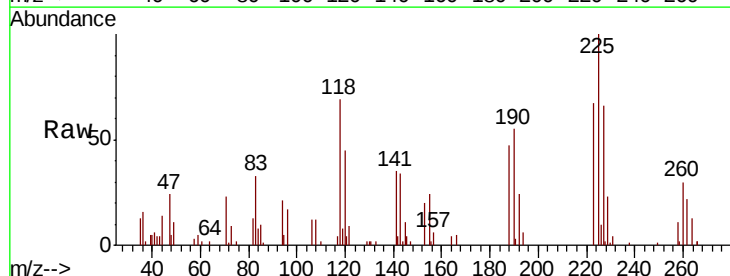
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

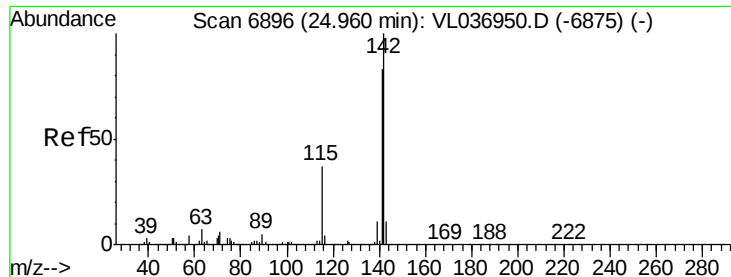
Tot Ion:146 Resp: 10074
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.1 69.2#
 148 0.0 32.5 97.4#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.087 ppbv
 RT: 23.36 min Scan# 6397
 Delta R.T. -0.00 min
 Lab File: VL036966.D
 Acq: 18 May 2021 13:14

Tgt Ion:225 Resp: 18510
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.9 77.9#
 227 104.9 51.8 77.6#





#80

Naphthalene, 2-methyl-

Concen: 0.045 ppbv

RT: 25.05 min Scan# 6923

Delta R.T. 0.09 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

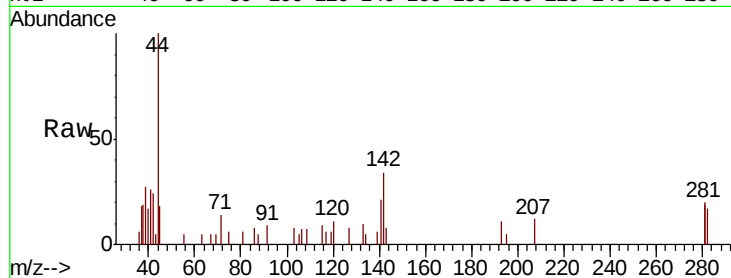
Tot Ion:142 Resp: 3304

Ion Ratio Lower Upper

142 100

141 57.9 69.3 103.9#

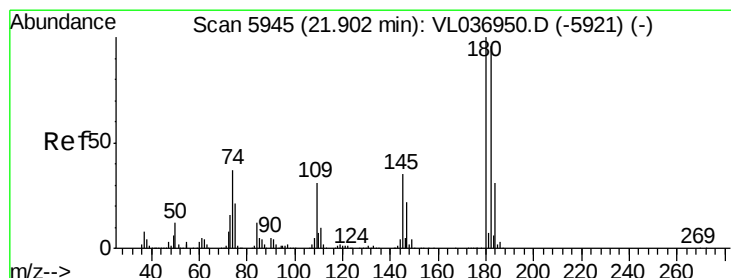
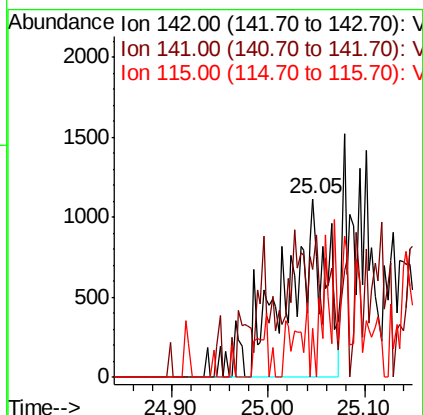
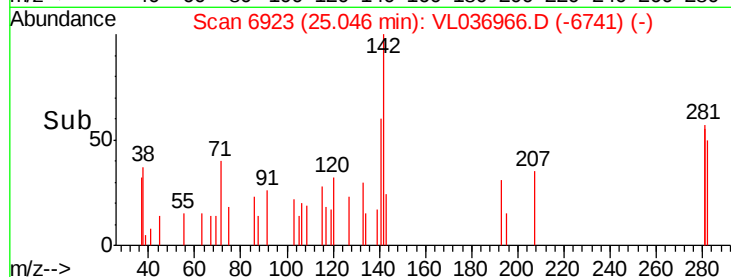
115 0.0 29.1 43.7#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.047 ppbv

RT: 21.91 min Scan# 5946

Delta R.T. 0.00 min

Lab File: VL036966.D

Acq: 18 May 2021 13:14

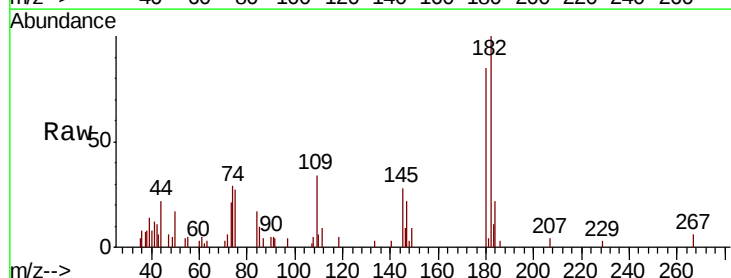
Tgt Ion:180 Resp: 9792

Ion Ratio Lower Upper

180 100

182 0.0 81.7 122.5#

184 63.5 24.9 37.3#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

