

Data File : VL037610.D

Acq On : 16 Sep 2021 8:47

Operator : SY/AP

Sample : VSTDIC001

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Quant Time: Sep 16 10:46:20 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 10:46:26 2021

QLast Update : Thu Sep 16 10:46:26 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1677289	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4810758	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4393910	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3171844	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.18	85	274663	1.021	ppbv	94
3) Chlorodifluoromethane	2.98	51	325570	1.014	ppbv	98
4) Chloromethane	3.13	50	116107	1.012	ppbv	88
5) Vinyl Chloride	3.25	62	109659	0.933	ppbv #	78
6) Bromomethane	3.47	94	30594	0.475	ppbv	98
7) Chloroethane	3.55	64	35496	0.884	ppbv #	89
8) Dichlorotetrafluoroethane	3.18	85	274663	0.989	ppbv	99
9) Propene	3.00	41	61352	0.534	ppbv #	38
10) Heptane	8.11	43	114294	0.432	ppbv #	1
11) Trichlorofluoromethane	3.94	101	249879	0.989	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	184556	0.996	ppbv	99
13) Ethanol	3.61	45	7777	0.695	ppbv #	37
14) Bromoethene	3.74	108	34467	0.410	ppbv #	1
15) Acetone	3.85	43	170600	0.999	ppbv #	54
16) 1,3-Butadiene	3.32	39	101715	0.929	ppbv	92
17) tert-Butyl alcohol	4.29	59	66214	0.425	ppbv #	67
18) 1,1-Dichloroethene	4.28	96	42973	0.510	ppbv	90
19) Isopropyl Alcohol	3.97	45	39635	0.405	ppbv #	70
20) Methylene Chloride	4.33	84	79507	0.930	ppbv	96
21) Allyl Chloride	4.40	41	107943	0.779	ppbv	88
22) trans-1,2-Dichloroethene	4.87	96	75155	0.895	ppbv	94
23) Vinyl Acetate	5.07	43	203920	0.810	ppbv #	93
24) 1,1-Dichloroethane	5.00	63	80528	0.441	ppbv	96
25) Ethyl Acetate	5.67	43	415128	0.958	ppbv #	97
26) Hexane	5.68	57	197824	0.934	ppbv	91
27) Carbon Disulfide	4.54	76	80106	0.424	ppbv #	52
28) Methyl tert-Butyl Ether	5.03	73	140361	0.690	ppbv #	87
29) Chloroform	5.74	83	289204	0.963	ppbv	96
30) Cyclohexane	7.12	84	155604	0.881	ppbv #	70
31) cis-1,2-Dichloroethene	5.54	61	171013	0.892	ppbv	91
32) 1,1,1-Trichloroethane	6.50	97	265850	0.901	ppbv	97
34) 2-Butanone	5.24	43	150355	0.765	ppbv #	79
35) Carbon Tetrachloride	7.01	117	267958	0.942	ppbv	96
36) Benzene	6.88	78	401127	0.992	ppbv	96
37) 1,2-Dichloroethane	6.29	62	194540	0.971	ppbv	100
38) Trichloroethene	7.82	130	152001	0.916	ppbv	92
39) 1,2-Dichloropropane	7.59	63	74419	0.479	ppbv	96
40) 1,4-Dioxane	7.85	88	26293	0.691	ppbv #	1
41) Tetrahydrofuran	6.05	42	25719	0.272	ppbv #	1
42) Bromodichloromethane	7.77	83	267608	0.914	ppbv #	95
43) Methyl Methacrylate	8.00	69	70419	0.500	ppbv #	19

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Sample : VSTDIC001
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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Sep 16 10:46:20 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 10:46:26 2021
QLast Update : Thu Sep 16 10:46:26 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	690676	1.015	ppbv	98
45) t-1,3-Dichloropropene	9.27	75	39988	0.377	ppbv	92
46) cis-1,3-Dichloropropene	8.69	75	106833	0.722	ppbv	93
47) 1,1,2-Trichloroethane	9.46	97	163348	0.973	ppbv	91
48) Dibromochloromethane	10.29	129	216660	0.897	ppbv	95
49) Bromoform	13.02	173	169132	0.888	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	233877	0.913	ppbv	98
51) 2-Hexanone	10.13	43	24669	0.209	ppbv #	29
52) Tetrachloroethene	11.21	164	73690	0.445	ppbv	93
53) Toluene	9.79	91	432348	0.936	ppbv	98
54) 1,2-Dibromoethane	10.59	107	220747	0.942	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.11	131	87007	0.475	ppbv #	2
57) Chlorobenzene	12.12	112	379859	1.042	ppbv #	89
58) Ethyl Benzene	12.69	91	247646	0.406	ppbv	96
59) m/p-Xylene	12.98	91	431331	0.816	ppbv #	6
60) o-Xylene	13.67	91	495724	1.005	ppbv	98
61) Styrene	13.51	104	206887	0.807	ppbv	96
62) Isopropylbenzene	14.64	105	701354	1.007	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.65	83	178394	0.486	ppbv #	16
64) n-propylbenzene	15.55	120	78419	0.443	ppbv #	1
65) tert-Butylbenzene	16.72	119	654855	1.033	ppbv	99
66) Benzyl Chloride	16.98	91	9489	0.331	ppbv #	28
67) sec-Butylbenzene	17.27	105	871717	0.984	ppbv	97
69) p-Isopropyltoluene	17.63	119	695050	0.963	ppbv	98
70) n-Butylbenzene	18.53	91	636348	0.922	ppbv	99
71) 2-Chlorotoluene	15.43	91	480107	0.940	ppbv	100
72) 4-Ethyltoluene	15.82	105	546471	0.931	ppbv	98
73) 1,3,5-Trimethylbenzene	15.97	105	245443	0.449	ppbv	93
74) 1,2,4-Trimethylbenzene	16.74	105	561461	0.967	ppbv	93
75) 1,3-Dichlorobenzene	16.97	146	334342	0.957	ppbv	95
76) 1,4-Dichlorobenzene	17.11	146	158248	0.450	ppbv #	20
77) 1,2-Dichlorobenzene	17.79	146	315738	0.918	ppbv	97
78) Hexachloro-1,3-Butadiene	23.35	225	135588	0.474	ppbv #	10
79) Naphthalene	22.17	128	158135	0.407	ppbv	96
80) Naphthalene,2-methyl-	24.95	142	68758	0.635	ppbv	88
81) 1,2,4-Trichlorobenzene	21.90	180	118977	0.488	ppbv #	11

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

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Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

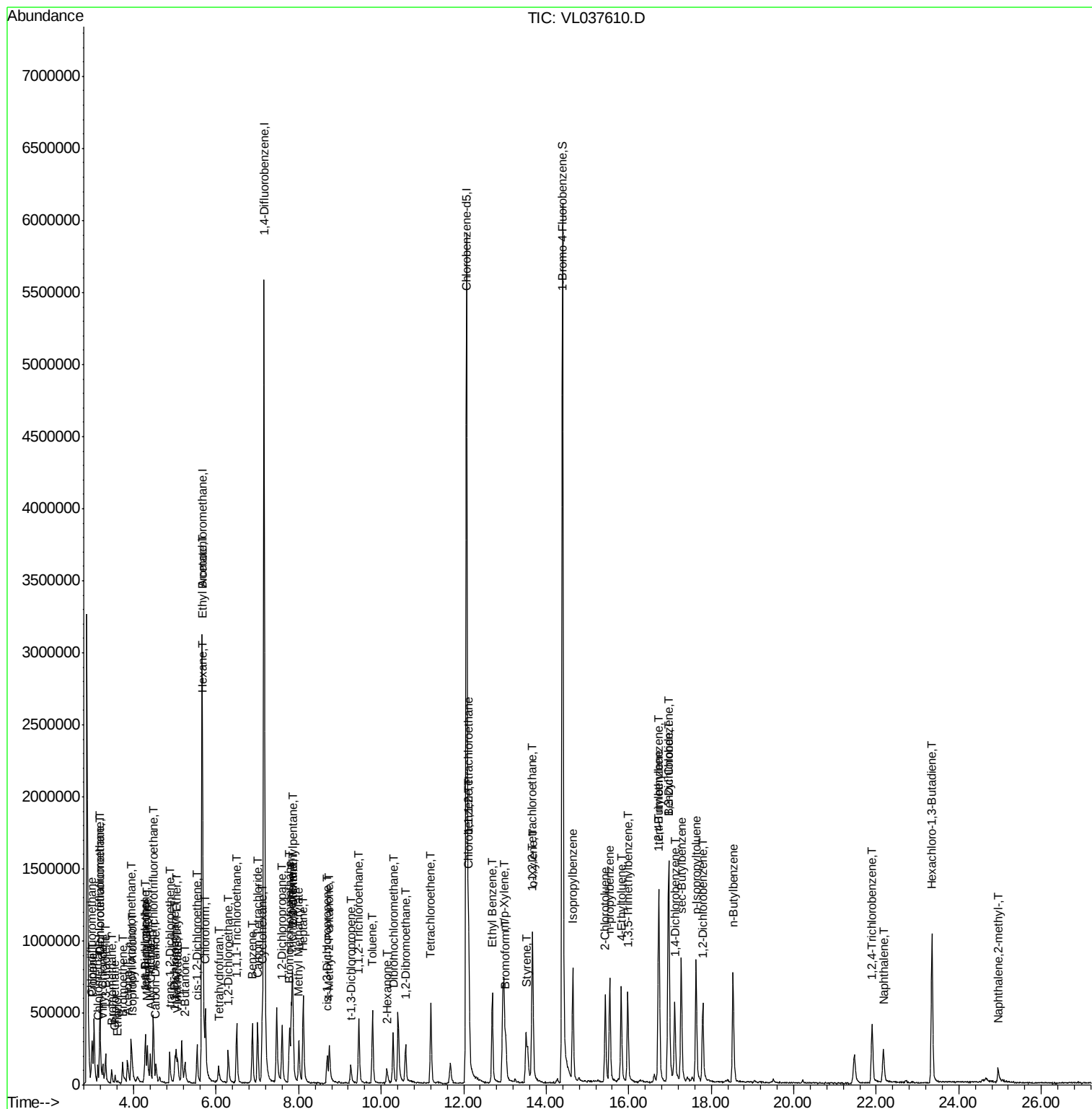
Quant Time: Sep 16 10:46:20 2021

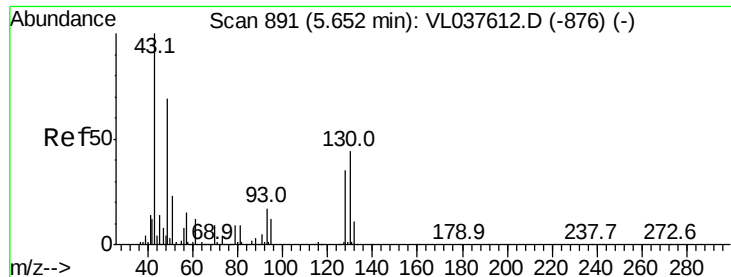
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL091621AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Sep 16 10:46:26 2021

QLast Update : Thu Sep 16 10:46:26 2021

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

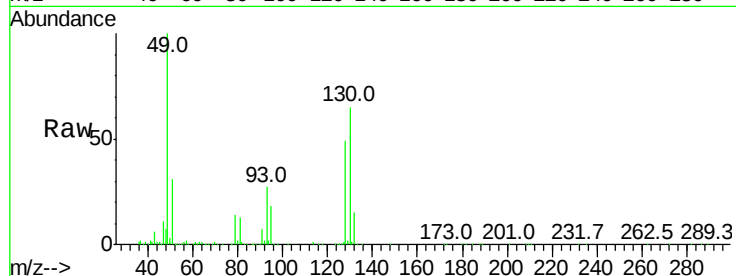
Tgt Ion: 49 Resp: 1677289

Ion Ratio Lower Upper

49 100

128 54.4 27.9 83.6

130 67.4 33.9 101.7



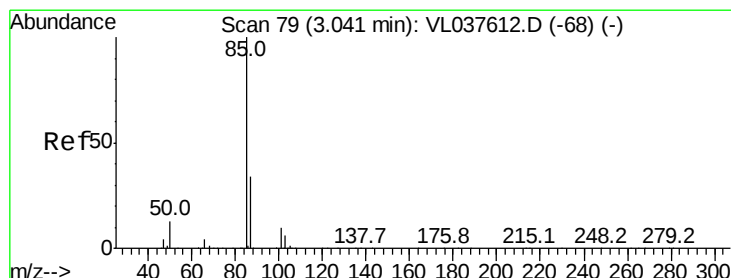
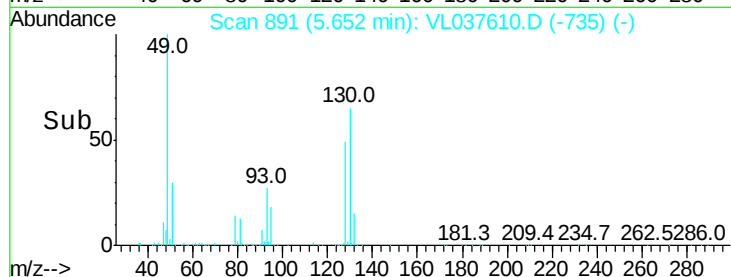
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 1.021 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.14 min

Lab File: VL037610.D

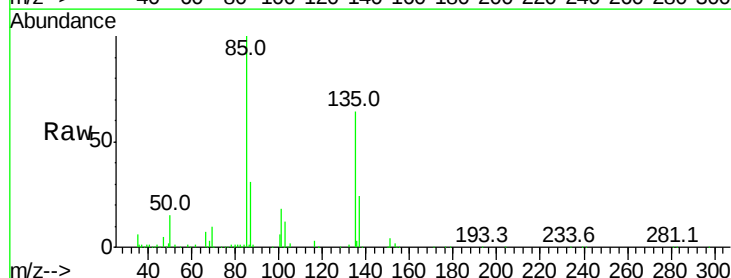
Acq: 16 Sep 2021 8:47

Tgt Ion: 85 Resp: 274663

Ion Ratio Lower Upper

85 100

87 30.2 26.8 40.2

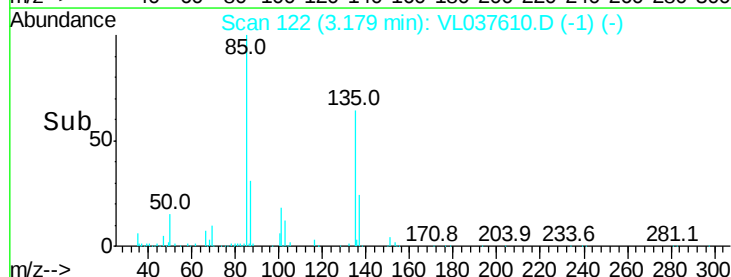


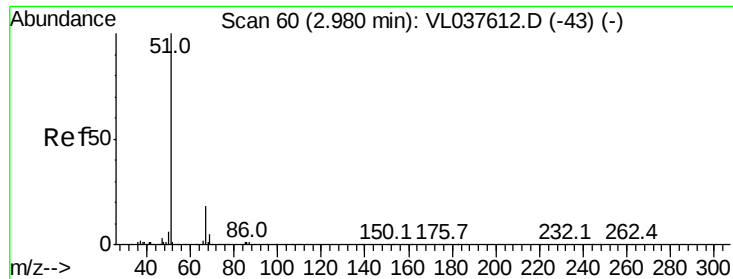
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.18

Time-->

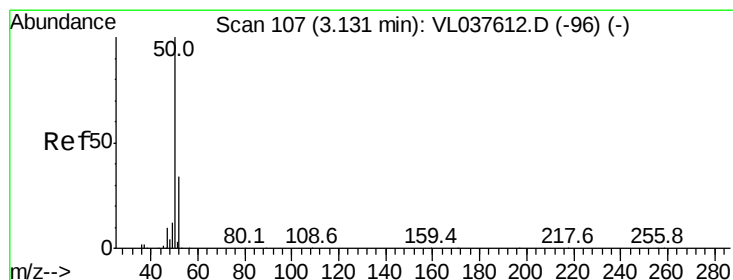
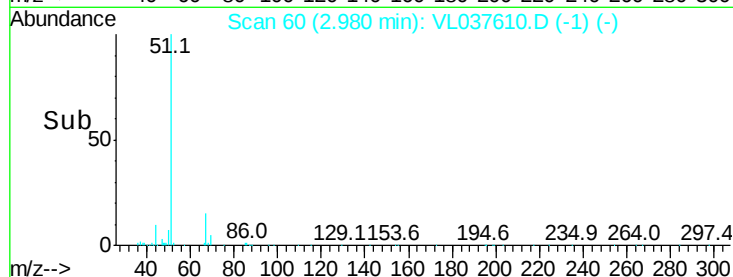
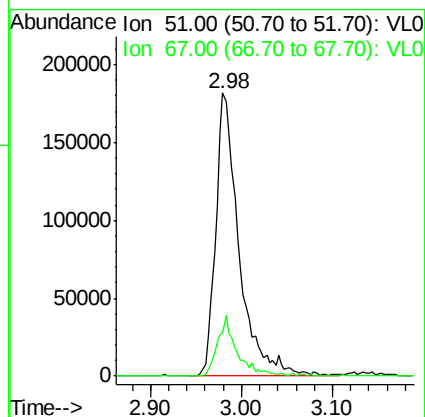
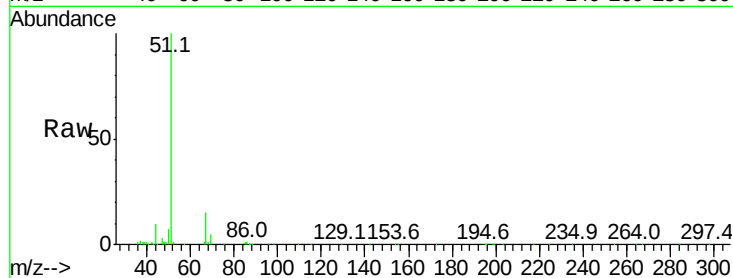




#3
Chlorodifluoromethane
Concen: 1.014 ppbv
RT: 2.98 min Scan# 60
Delta R.T. 0.00 min
Lab File: VL037610.D
Acq: 16 Sep 2021 8:47

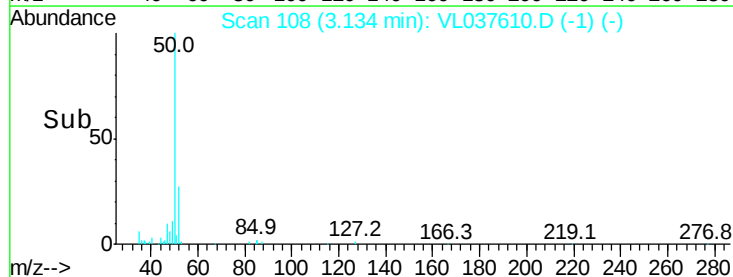
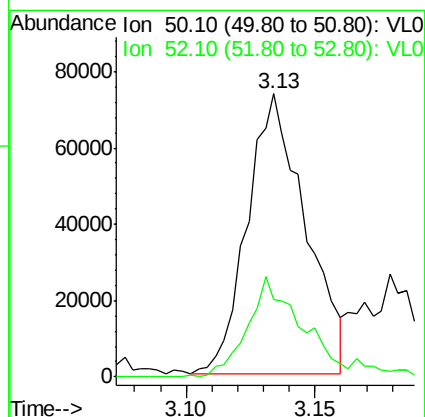
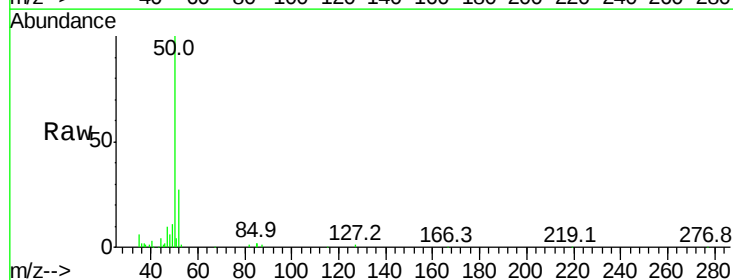
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

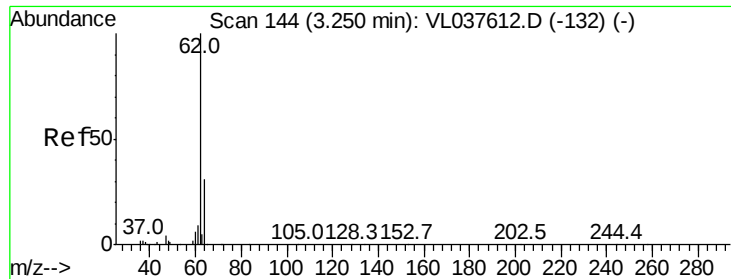
Tgt Ion: 51 Resp: 325570
Ion Ratio Lower Upper
51 100
67 18.3 14.0 21.0



#4
Chloromethane
Concen: 1.012 ppbv
RT: 3.13 min Scan# 108
Delta R.T. 0.00 min
Lab File: VL037610.D
Acq: 16 Sep 2021 8:47

Tgt Ion: 50 Resp: 116107
Ion Ratio Lower Upper
50 100
52 27.3 27.1 40.7





#5

Vinyl Chloride

Concen: 0.933 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

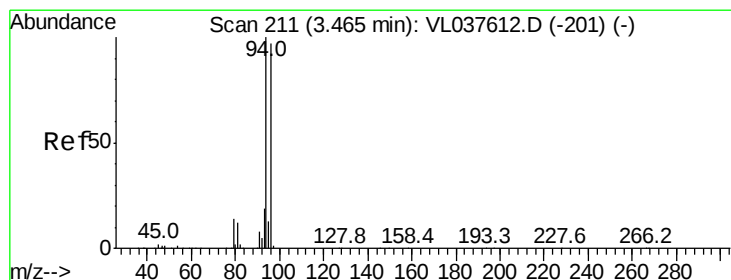
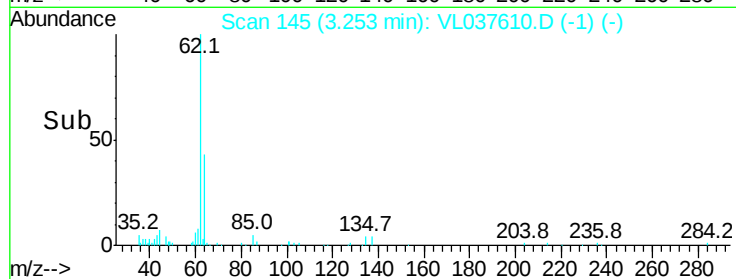
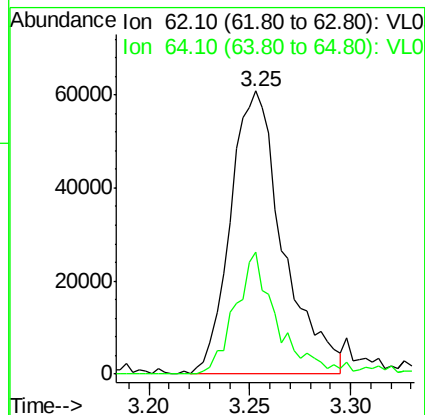
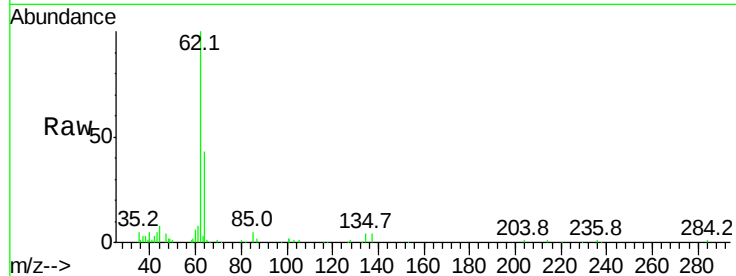
VSTDIC001

Tgt Ion: 62 Resp: 109659

Ion Ratio Lower Upper

62 100

64 43.5 24.9 37.3#



#6

Bromomethane

Concen: 0.475 ppbv

RT: 3.47 min Scan# 211

Delta R.T. 0.00 min

Lab File: VL037610.D

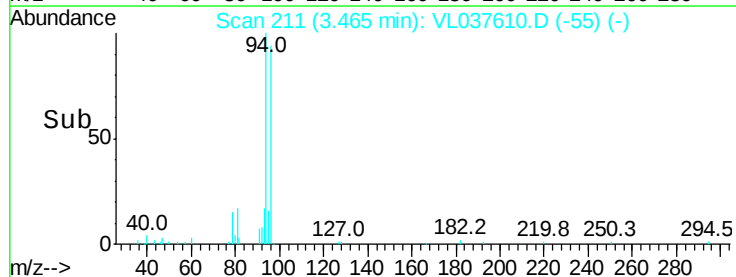
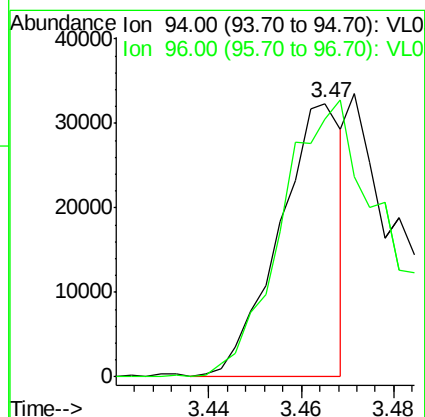
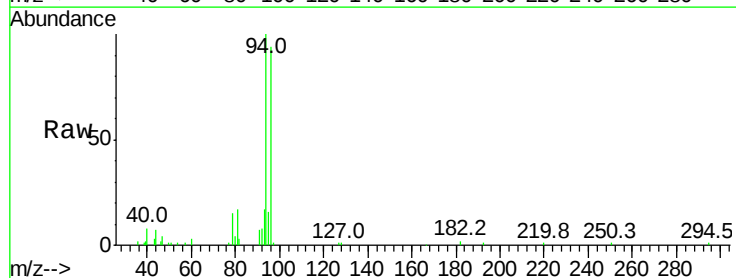
Acq: 16 Sep 2021 8:47

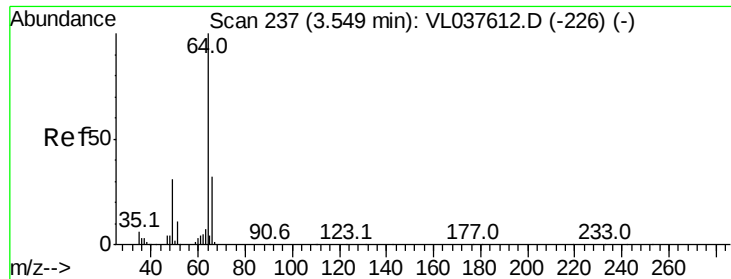
Tgt Ion: 94 Resp: 30594

Ion Ratio Lower Upper

94 100

96 94.4 77.3 115.9





#7

Chloroethane

Concen: 0.884 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

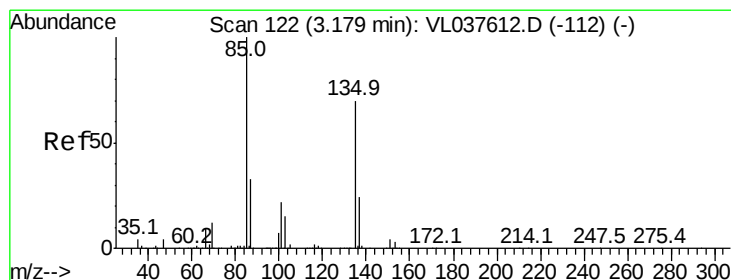
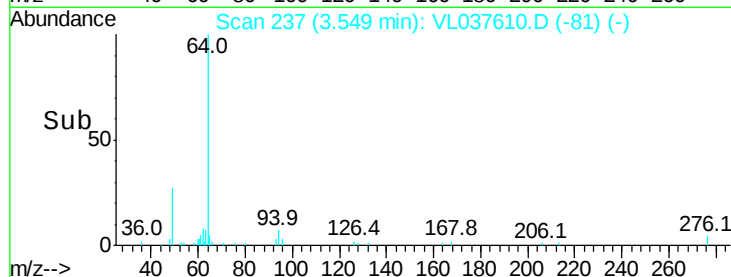
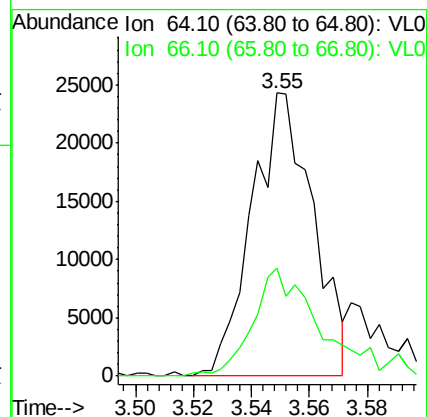
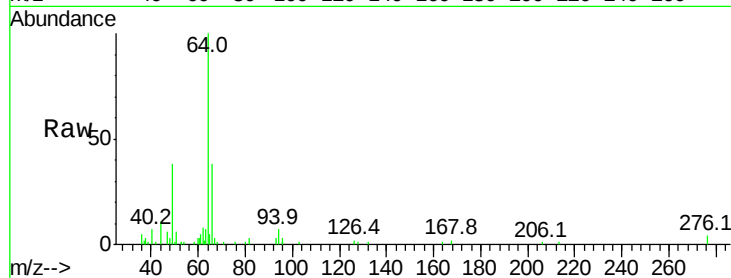
VSTDIC001

Tgt Ion: 64 Resp: 35496

Ion Ratio Lower Upper

64 100

66 38.0 25.3 37.9#



#8

Dichlorotetrafluoroethane

Concen: 0.989 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL037610.D

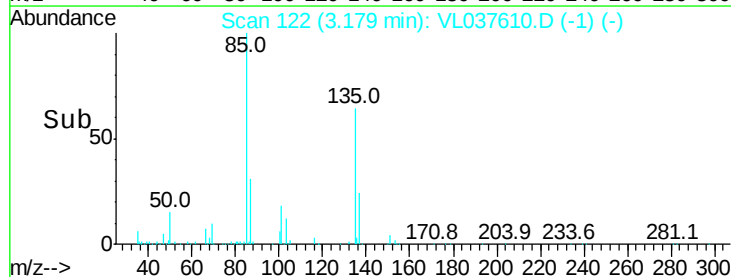
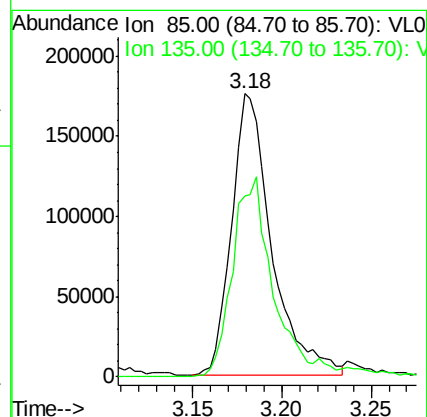
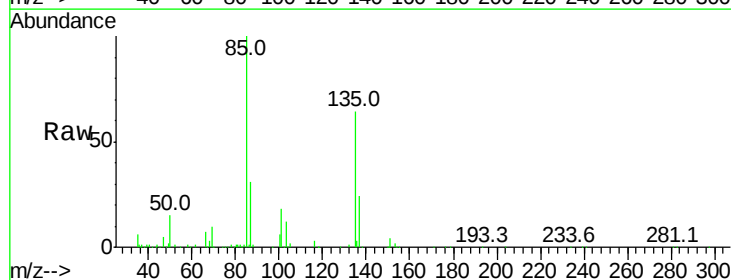
Acq: 16 Sep 2021 8:47

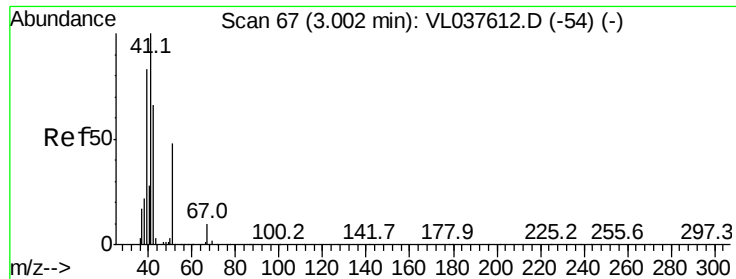
Tgt Ion: 85 Resp: 274663

Ion Ratio Lower Upper

85 100

135 75.2 59.3 88.9





#9

Propene

Concen: 0.534 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

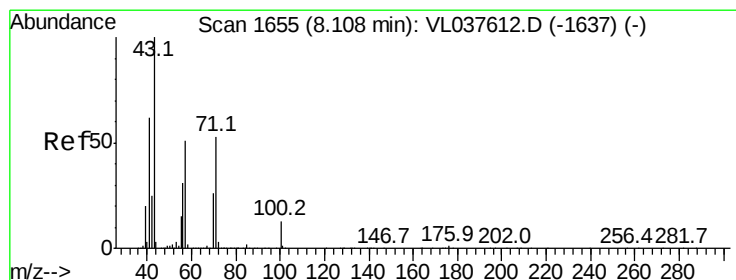
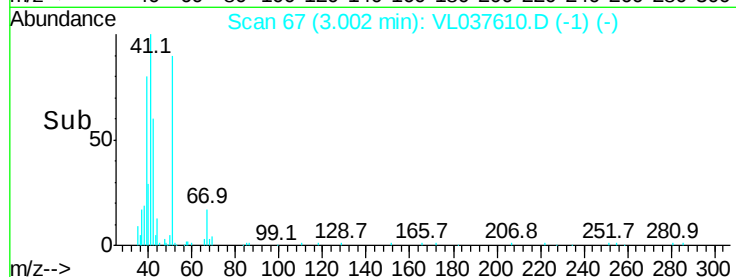
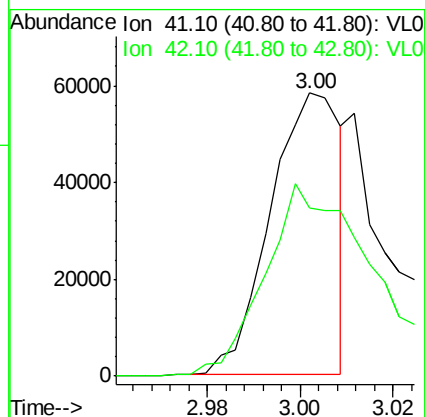
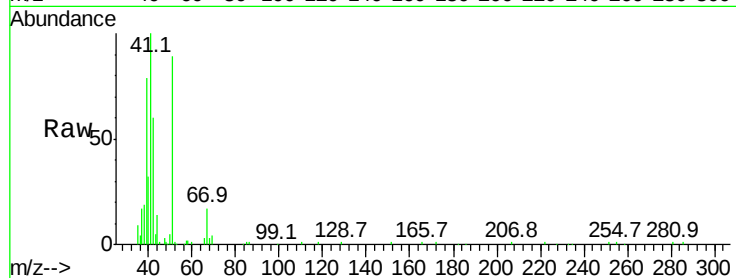
VSTDIC001

Tgt Ion: 41 Resp: 61352

Ion Ratio Lower Upper

41 100

42 123.1 57.2 85.8#



#10

Heptane

Concen: 0.432 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VL037610.D

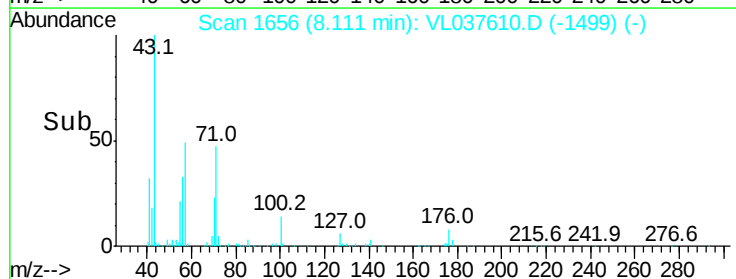
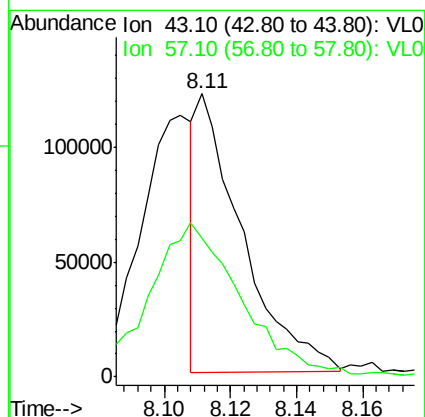
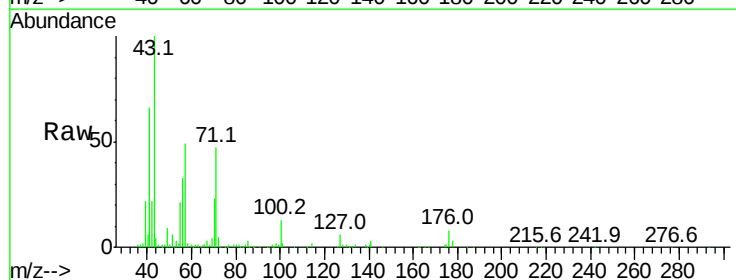
Acq: 16 Sep 2021 8:47

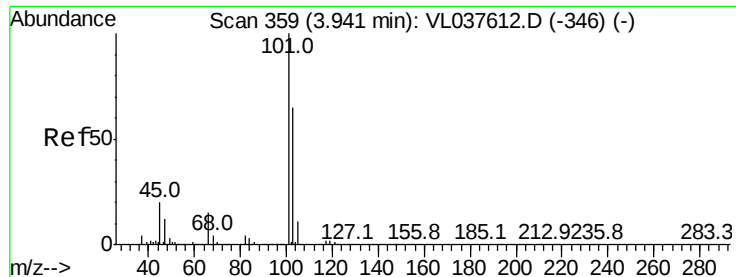
Tgt Ion: 43 Resp: 114294

Ion Ratio Lower Upper

43 100

57 118.2 40.1 60.1#

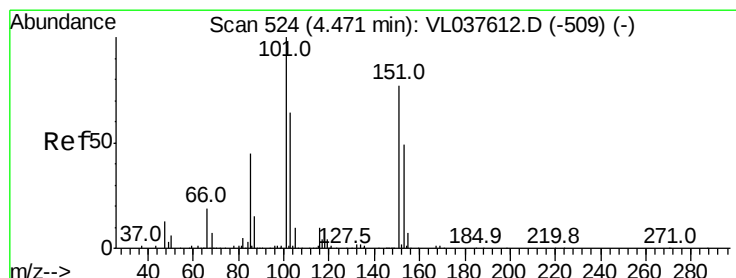
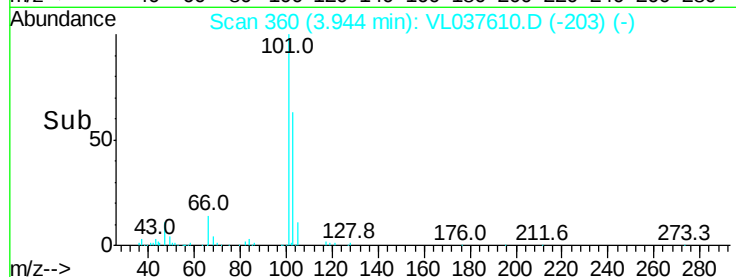
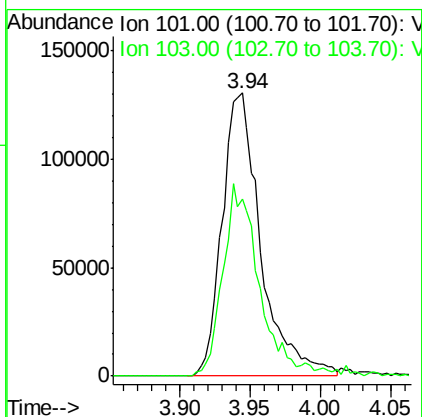
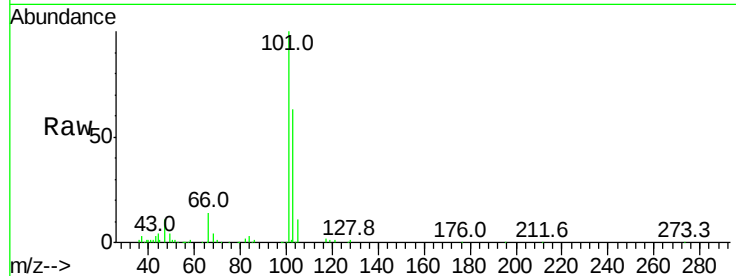




#11
 Trichlorofluoromethane
 Concen: 0.989 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

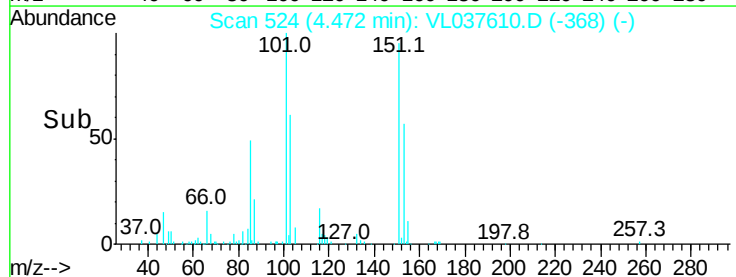
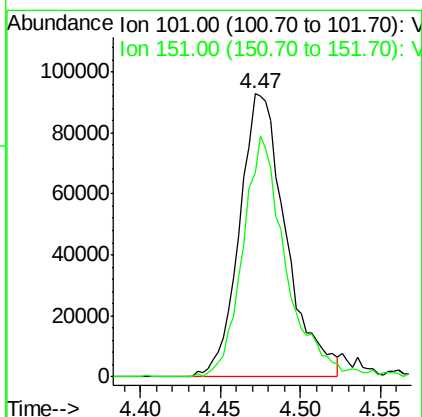
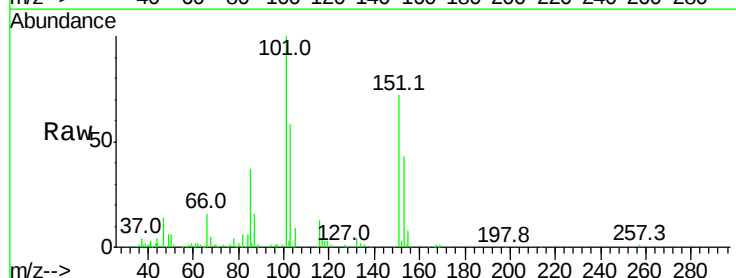
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

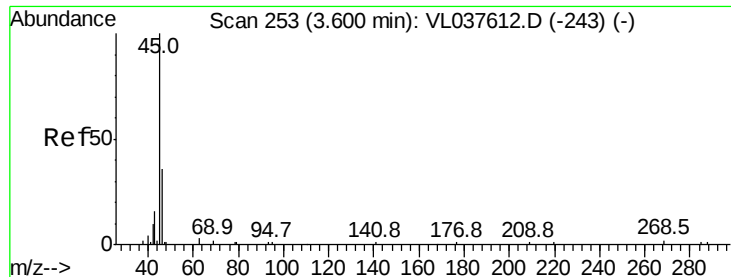
Tgt Ion:101 Resp: 249879
 Ion Ratio Lower Upper
 101 100
 103 62.4 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.996 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. 0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

Tgt Ion:101 Resp: 184556
 Ion Ratio Lower Upper
 101 100
 151 78.9 63.5 95.3





#13

Ethanol

Concen: 0.695 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

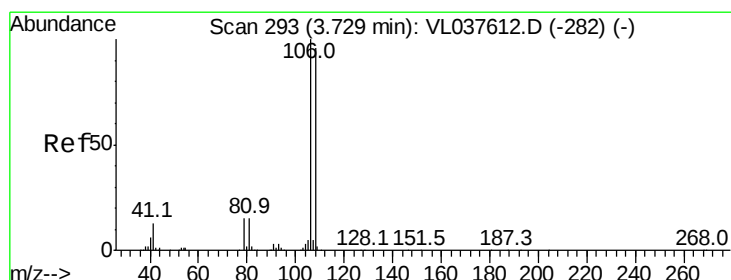
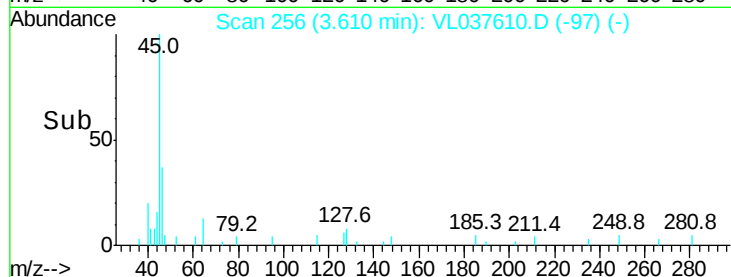
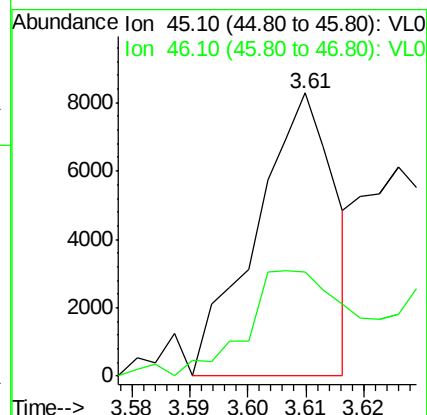
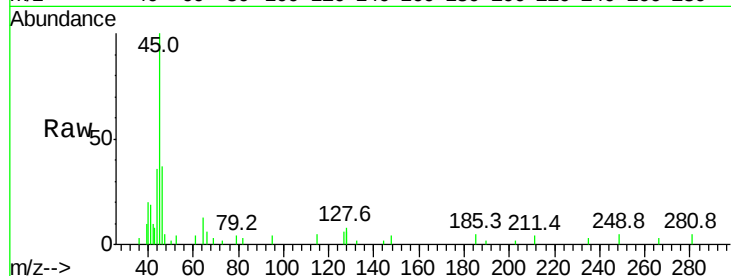
VSTDIC001

Tgt Ion: 45 Resp: 7777

Ion Ratio Lower Upper

45 100

46 83.0 17.2 68.8#



#14

Bromoethene

Concen: 0.410 ppbv

RT: 3.74 min Scan# 295

Delta R.T. 0.01 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

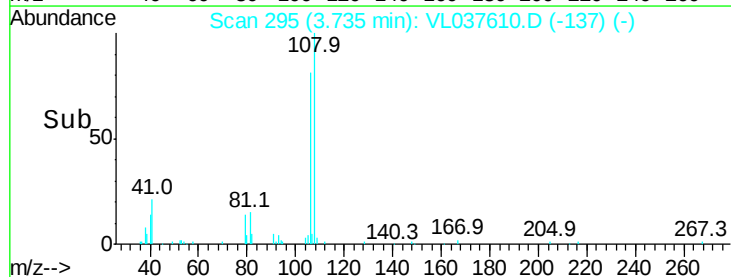
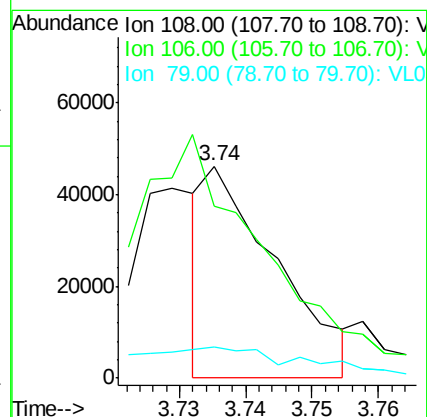
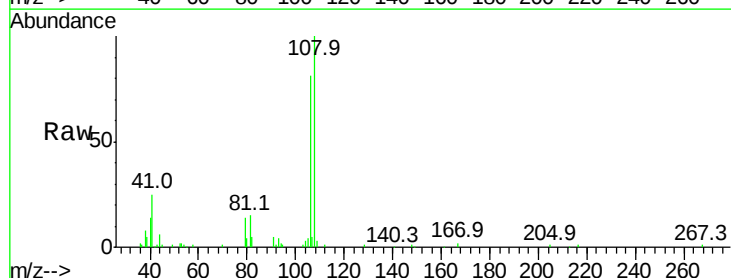
Tgt Ion: 108 Resp: 34467

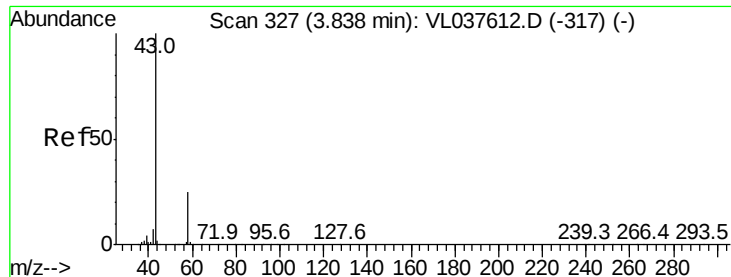
Ion Ratio Lower Upper

108 100

106 255.1 88.2 132.4#

79 42.2 12.8 19.2#





#15

Acetone

Concen: 0.999 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

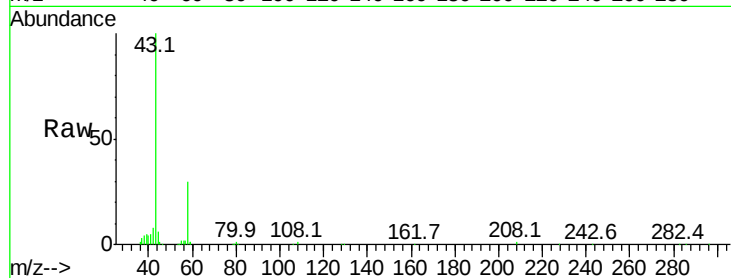
VSTDIC001

Tgt Ion: 43 Resp: 170600

Ion Ratio Lower Upper

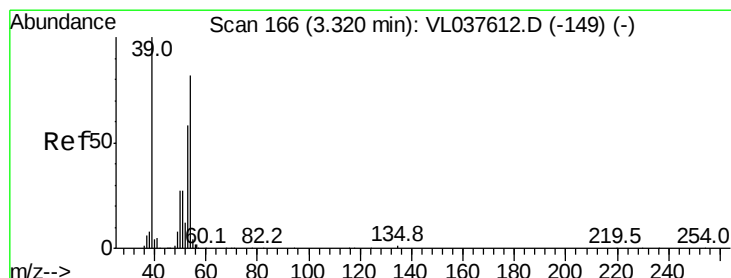
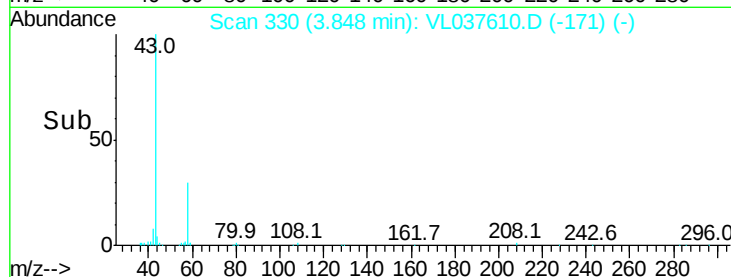
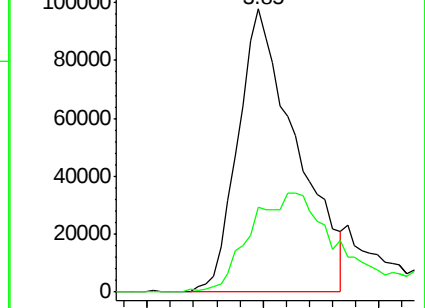
43 100

58 56.2 24.9 37.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.929 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.00 min

Lab File: VL037610.D

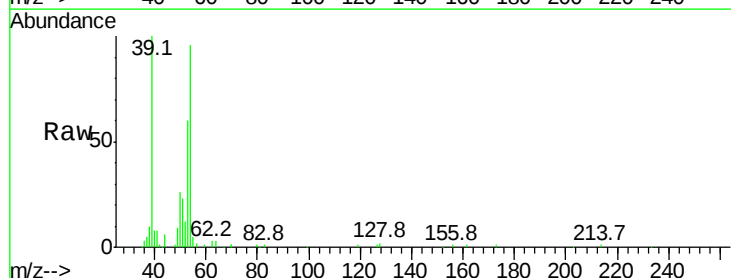
Acq: 16 Sep 2021 8:47

Tgt Ion: 39 Resp: 101715

Ion Ratio Lower Upper

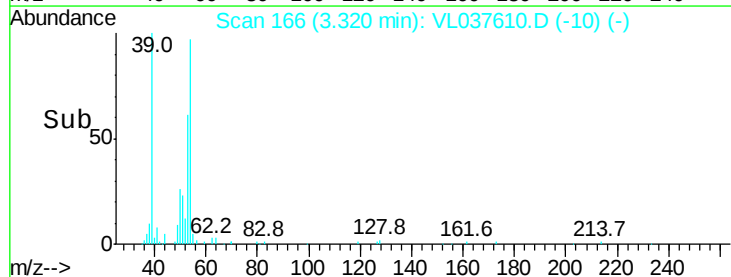
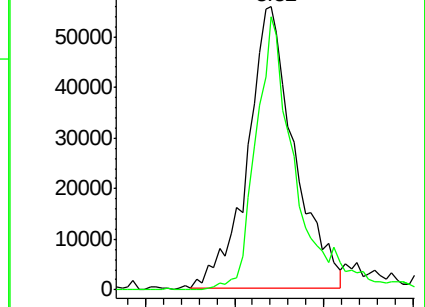
39 100

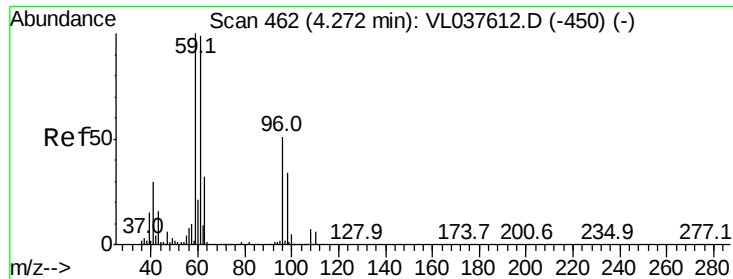
54 84.9 62.6 93.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.425 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.02 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

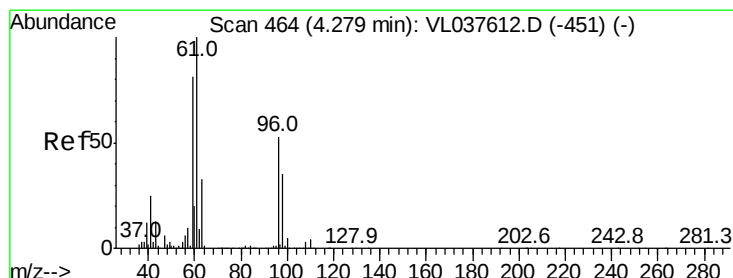
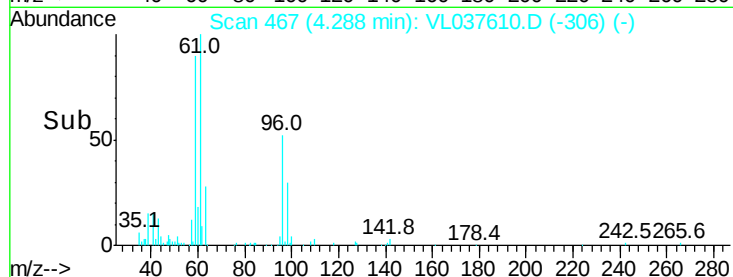
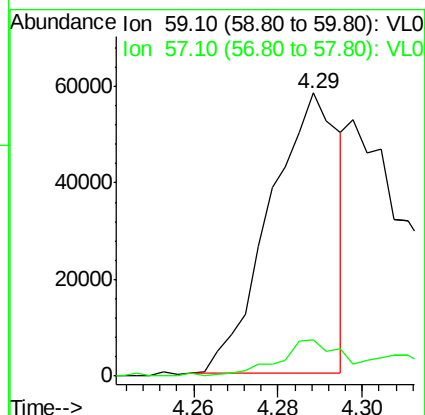
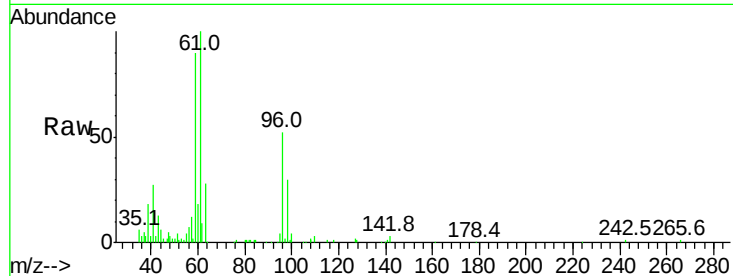
VSTDIC001

Tgt Ion: 59 Resp: 66214

Ion Ratio Lower Upper

59 100

57 23.0 8.4 12.6#



#18

1,1-Dichloroethene

Concen: 0.510 ppbv

RT: 4.28 min Scan# 464

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

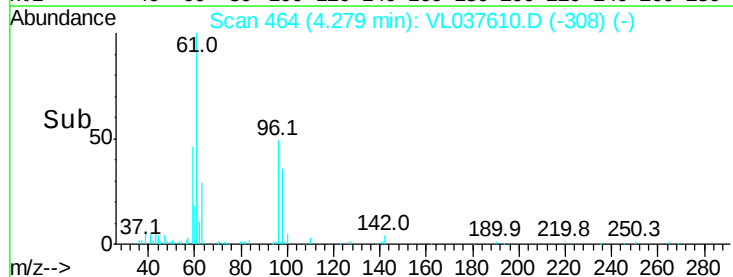
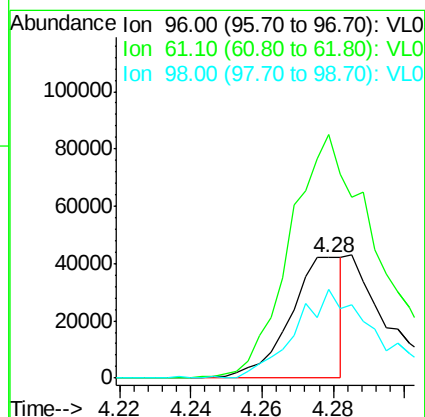
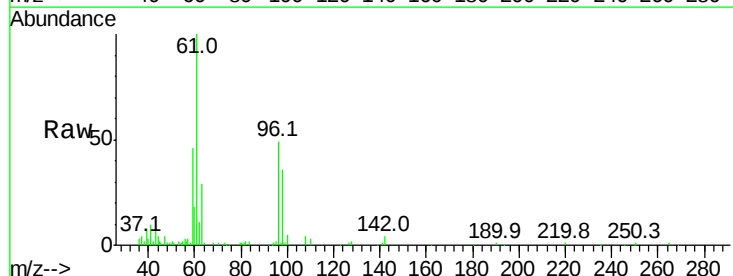
Tgt Ion: 96 Resp: 42973

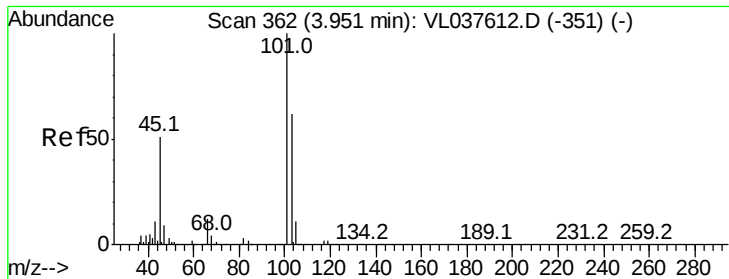
Ion Ratio Lower Upper

96 100

61 202.3 150.4 225.6

98 72.6 52.1 78.1





#19

Isopropyl Alcohol

Concen: 0.405 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

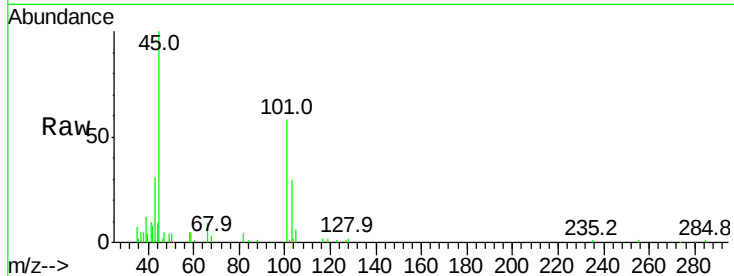
VSTDIC001

Tgt Ion: 45 Resp: 39635

Ion Ratio Lower Upper

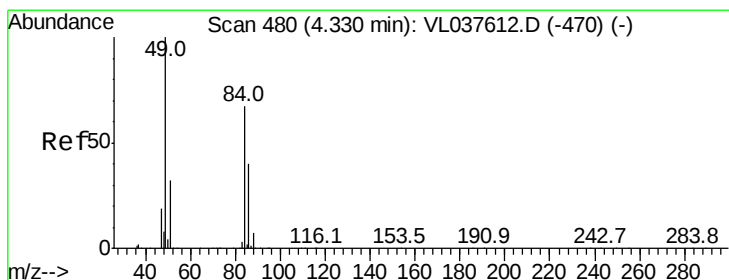
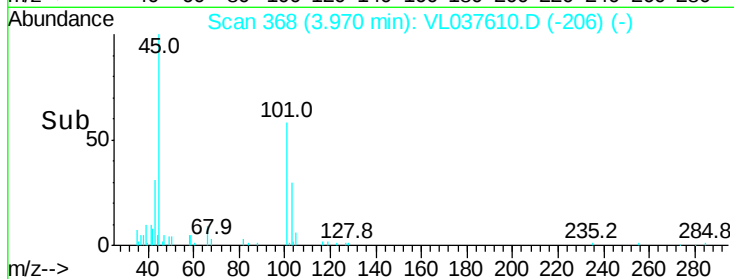
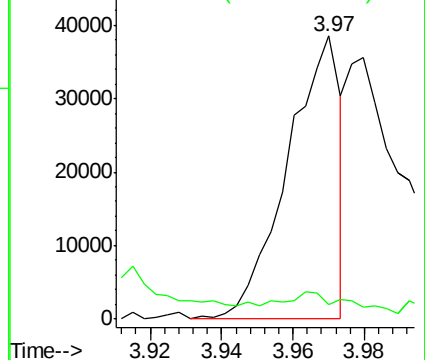
45 100

58 13.4 2.9 4.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.930 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Tgt Ion: 84 Resp: 79507

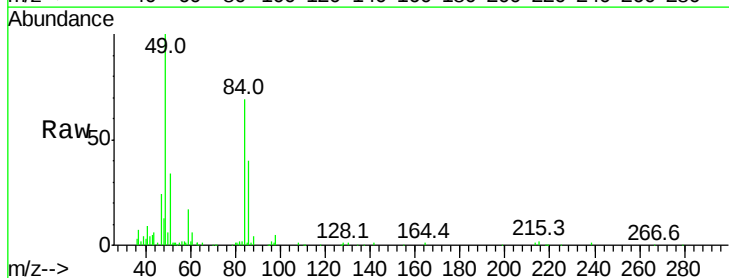
Ion Ratio Lower Upper

84 100

49 142.7 120.0 180.0

51 48.3 38.0 57.0

86 57.7 48.2 72.2

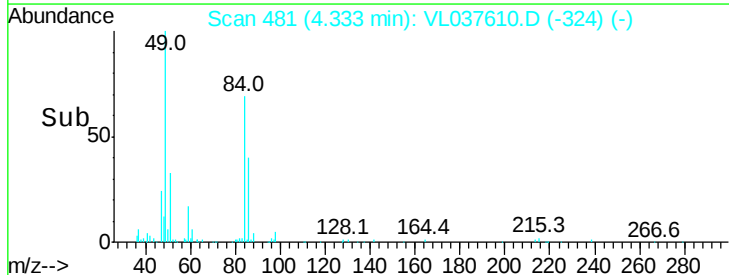
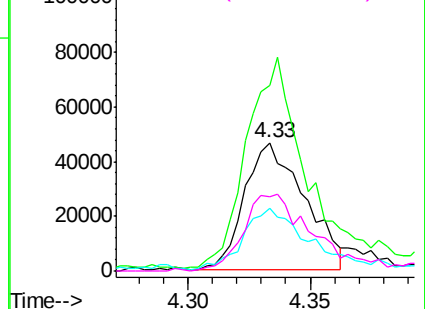


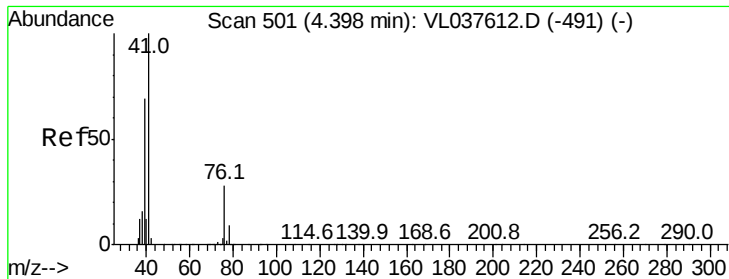
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

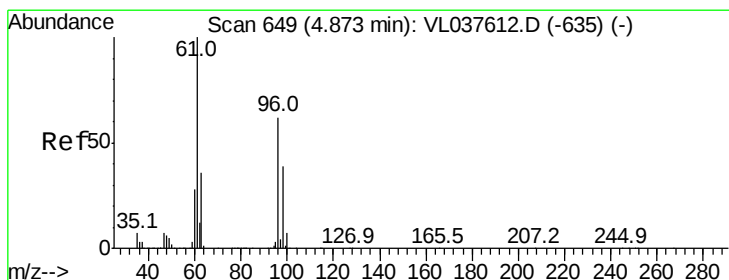
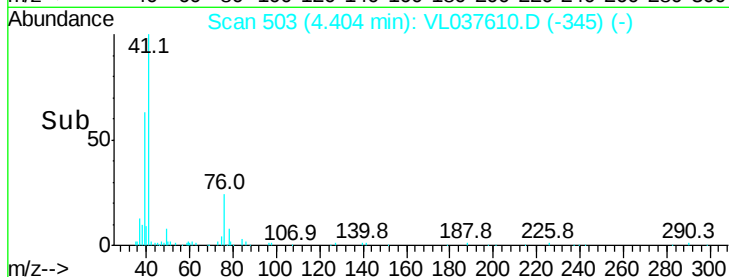
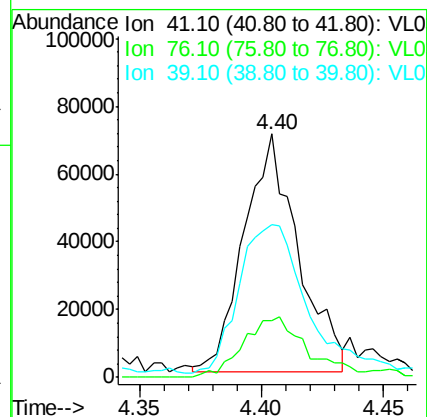
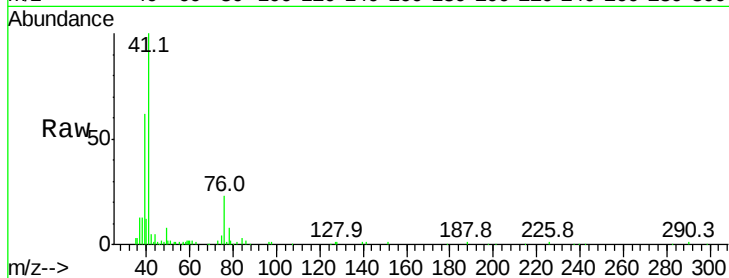




#21
 Allyl Chloride
 Concen: 0.779 ppbv
 RT: 4.40 min Scan# 503
 Delta R.T. 0.01 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

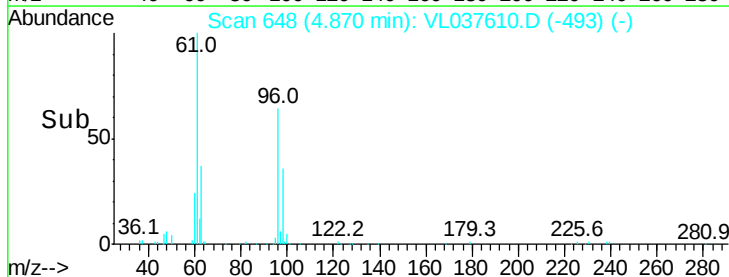
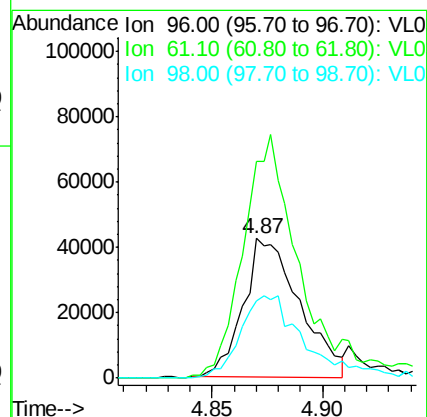
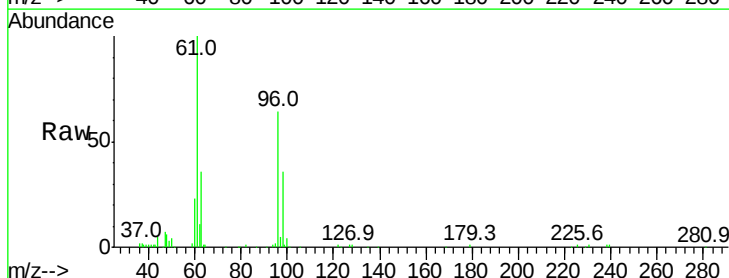
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

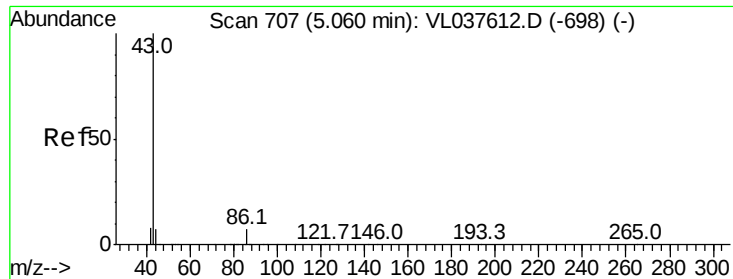
Tgt Ion: 41 Resp: 107943
 Ion Ratio Lower Upper
 41 100
 76 32.7 23.1 34.7
 39 87.7 61.0 91.6



#22
 trans-1,2-Dichloroethene
 Concen: 0.895 ppbv
 RT: 4.87 min Scan# 648
 Delta R.T. -0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

Tgt Ion: 96 Resp: 75155
 Ion Ratio Lower Upper
 96 100
 61 154.8 129.2 193.8
 98 55.7 50.4 75.6

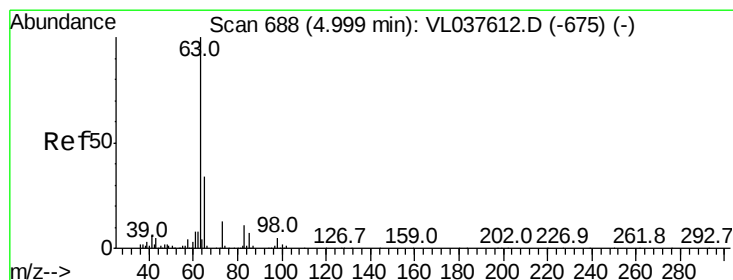
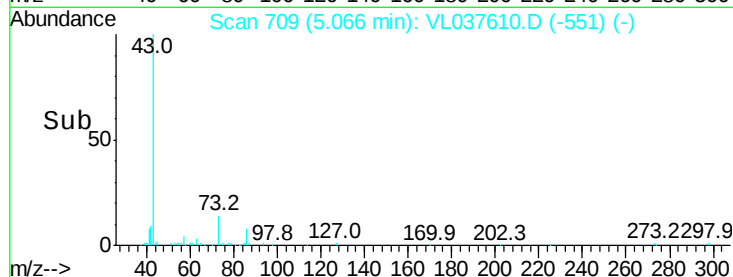
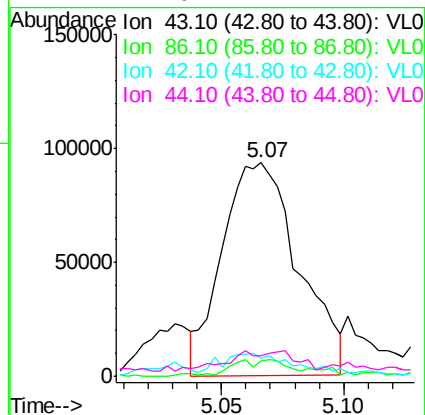
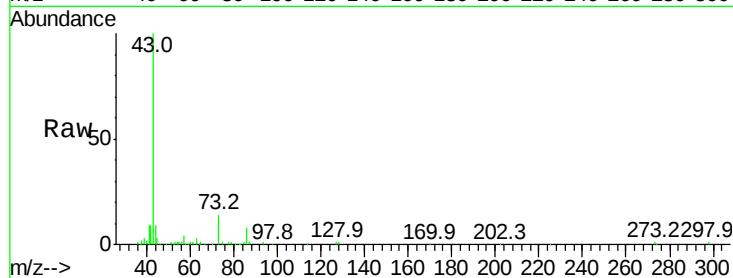




#23
 Vinyl Acetate
 Concen: 0.810 ppbv
 RT: 5.07 min Scan# 709
 Delta R.T. 0.01 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

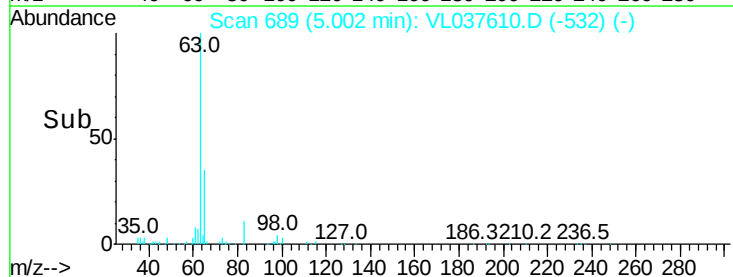
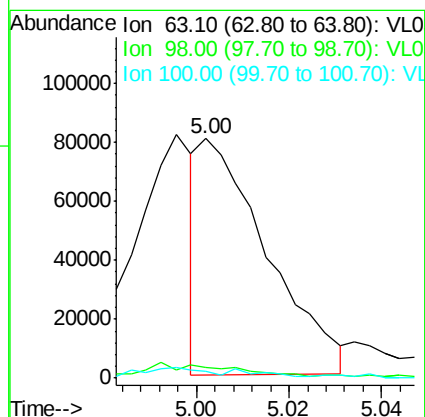
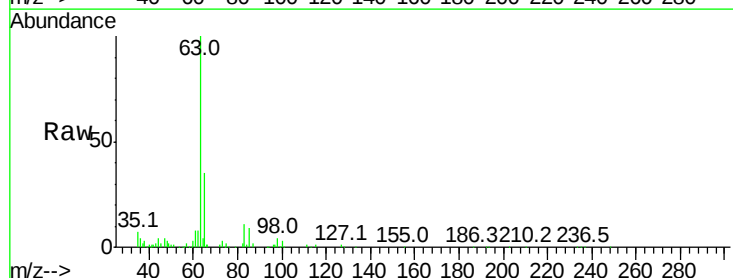
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

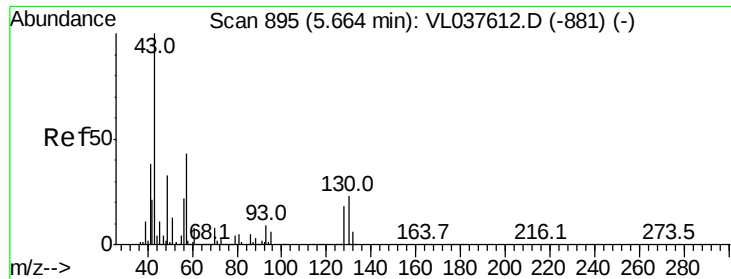
Tgt Ion:	43	Resp:	203920
Ion	Ratio	Lower	Upper
43	100		
86	9.4	5.0	7.6#
42	6.7	7.5	11.3#
44	7.0	4.7	7.1



#24
 1,1-Dichloroethane
 Concen: 0.441 ppbv
 RT: 5.00 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

Tgt Ion:	63	Resp:	80528
Ion	Ratio	Lower	Upper
63	100		
98	3.2	2.4	7.2
100	1.8	1.1	3.5





#25

Ethyl Acetate

Concen: 0.958 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 415128

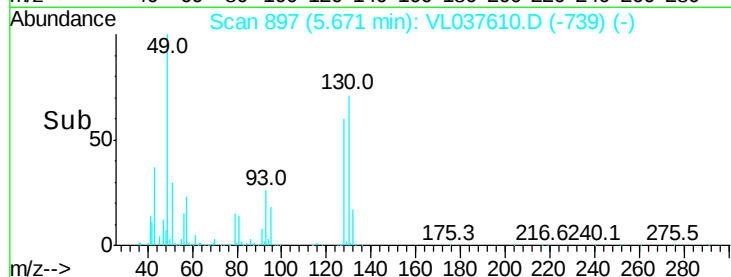
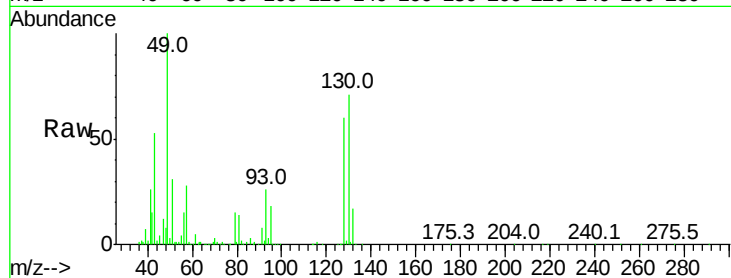
Ion Ratio Lower Upper

43 100

45 9.8 8.0 12.0

61 10.6 7.5 11.3

70 8.9 5.6 8.4#



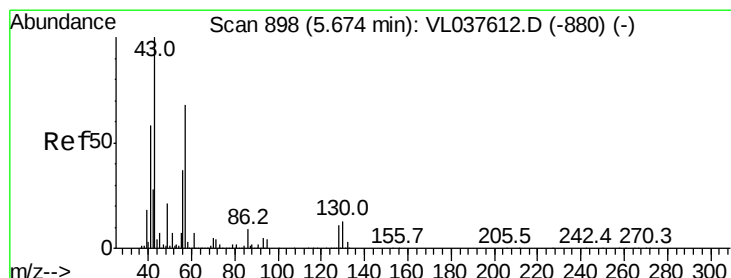
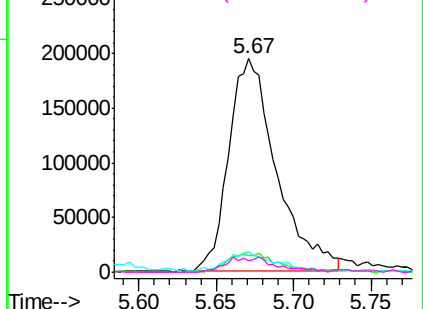
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.934 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Tgt Ion: 57 Resp: 197824

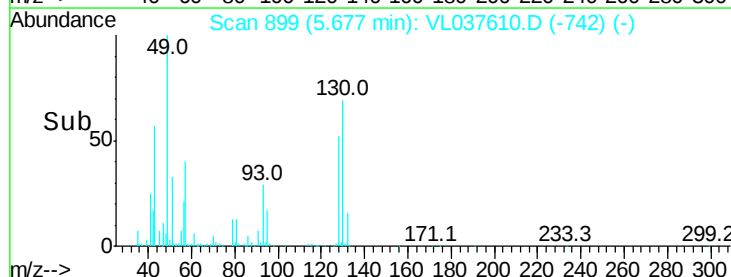
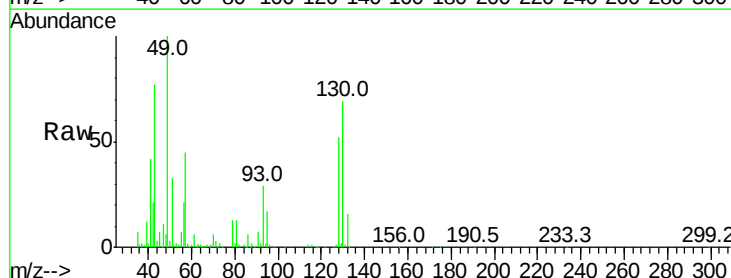
Ion Ratio Lower Upper

57 100

41 99.9 70.9 106.3

43 226.3 170.4 255.6

56 59.9 42.6 64.0



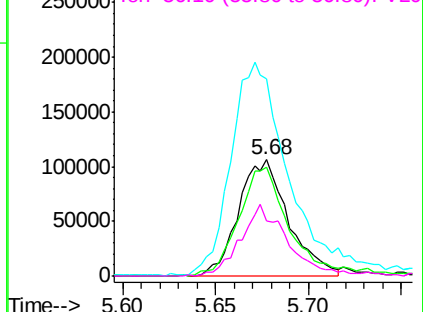
Abundance

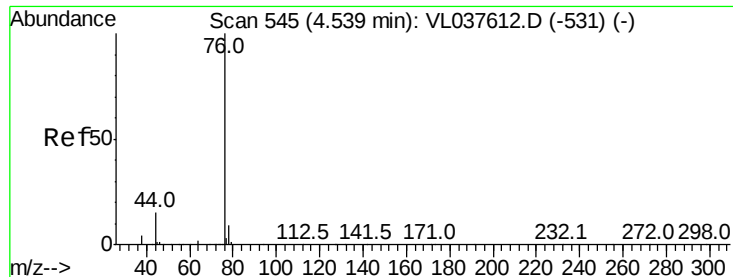
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.424 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

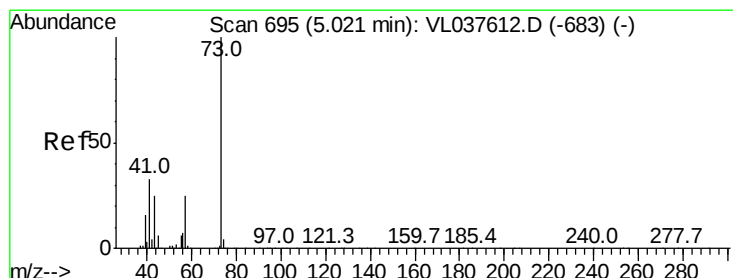
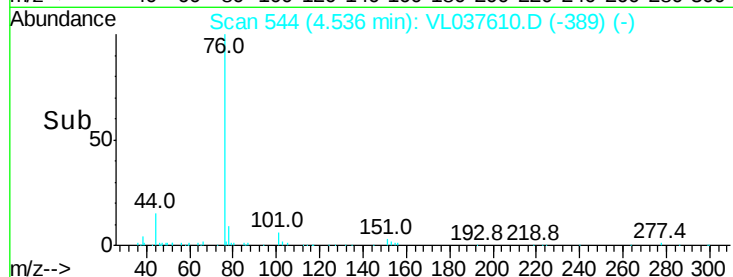
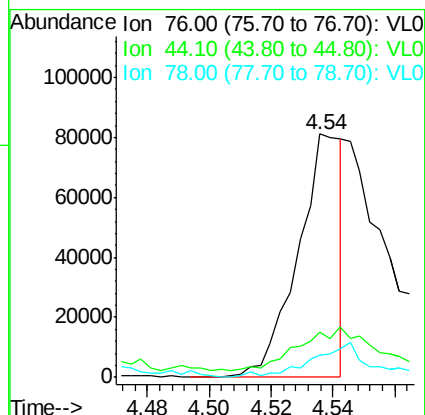
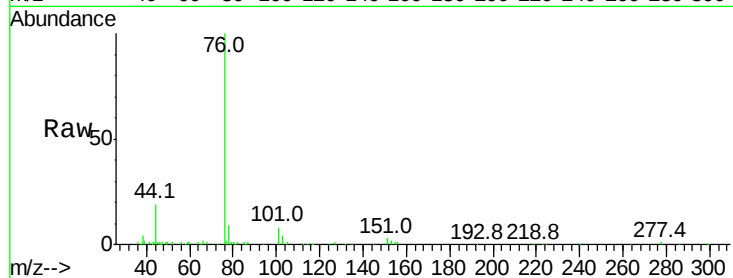
Tgt Ion: 76 Resp: 80106

Ion Ratio Lower Upper

76 100

44 42.1 14.2 21.2#

78 21.6 7.4 11.0#



#28

Methyl tert-Butyl Ether

Concen: 0.690 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.01 min

Lab File: VL037610.D

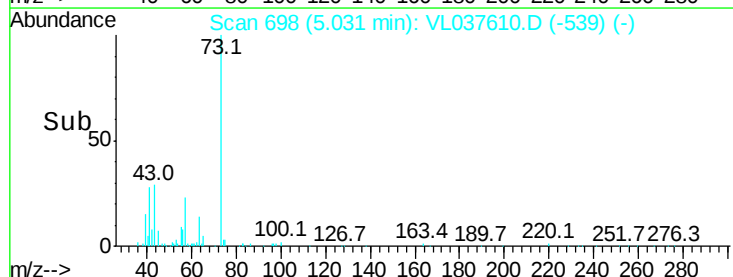
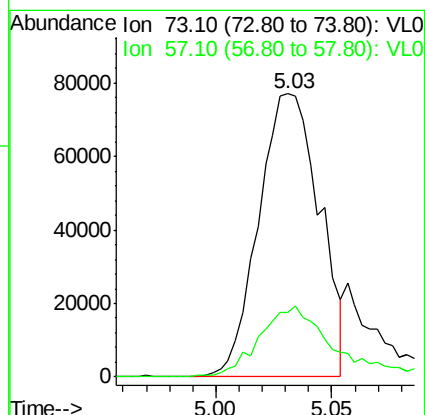
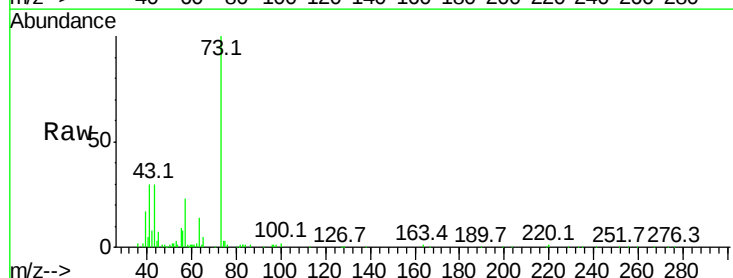
Acq: 16 Sep 2021 8:47

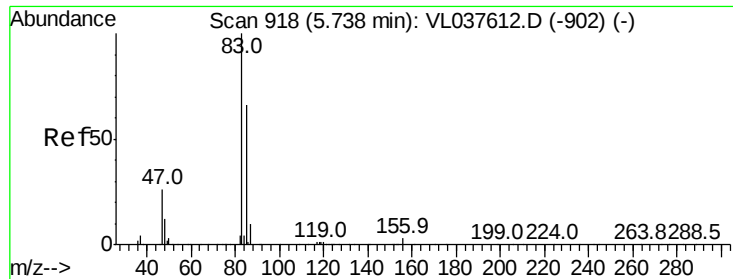
Tgt Ion: 73 Resp: 140361

Ion Ratio Lower Upper

73 100

57 31.5 20.1 30.1#

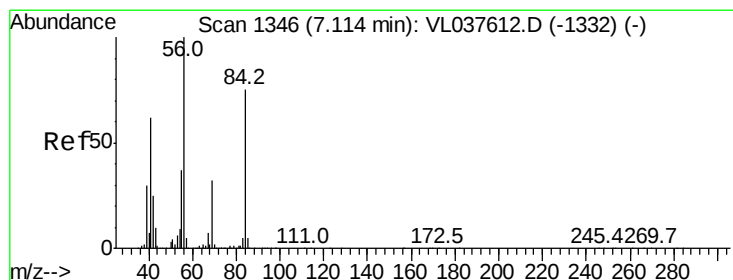
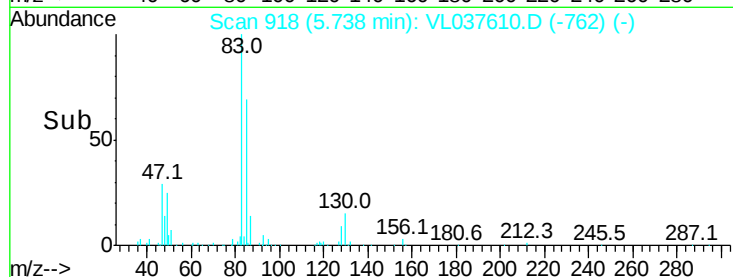
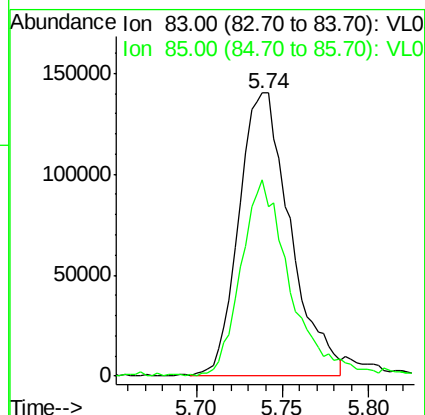
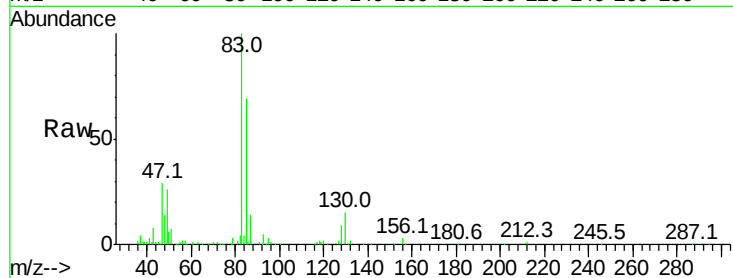




#29
Chloroform
Concen: 0.963 ppbv
RT: 5.74 min Scan# 918
Delta R.T. 0.00 min
Lab File: VL037610.D
Acq: 16 Sep 2021 8:47

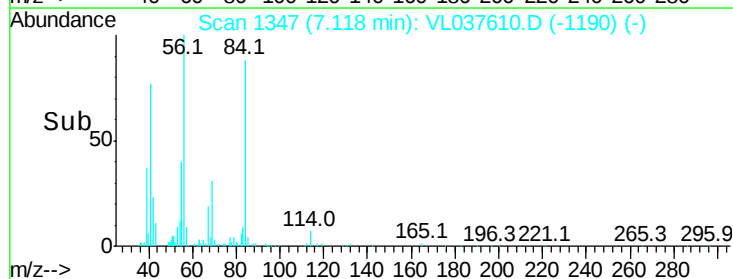
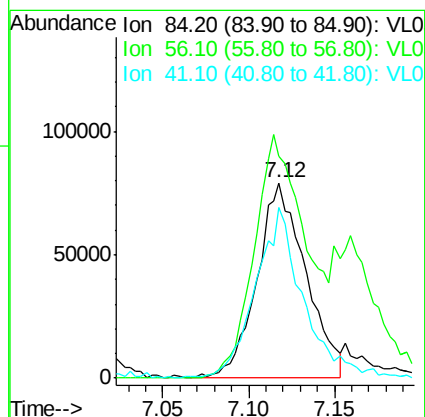
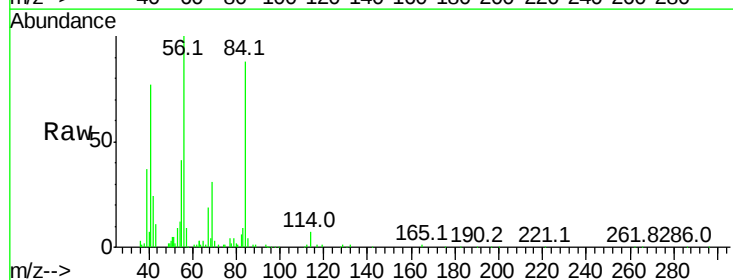
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

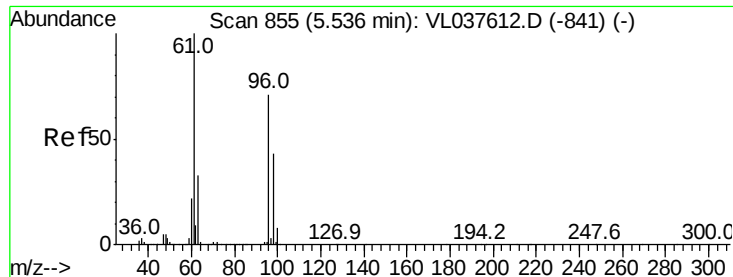
Tgt Ion: 83 Resp: 289204
Ion Ratio Lower Upper
83 100
85 68.9 52.6 79.0



#30
Cyclohexane
Concen: 0.881 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VL037610.D
Acq: 16 Sep 2021 8:47

Tgt Ion: 84 Resp: 155604
Ion Ratio Lower Upper
84 100
56 199.1 113.6 170.4#
41 87.0 67.9 101.9



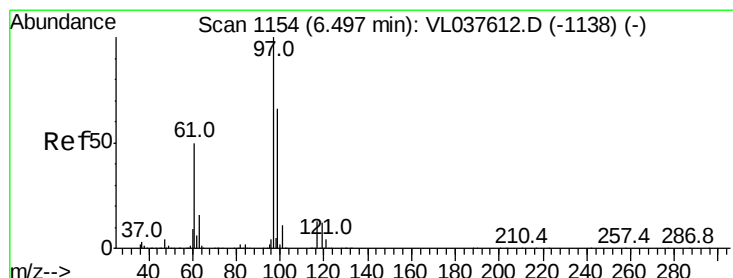
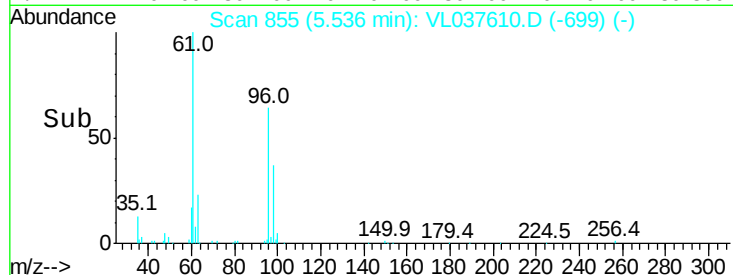
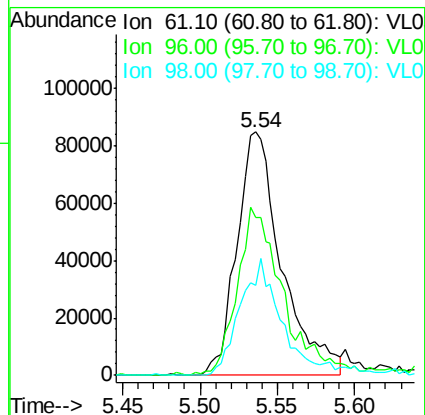
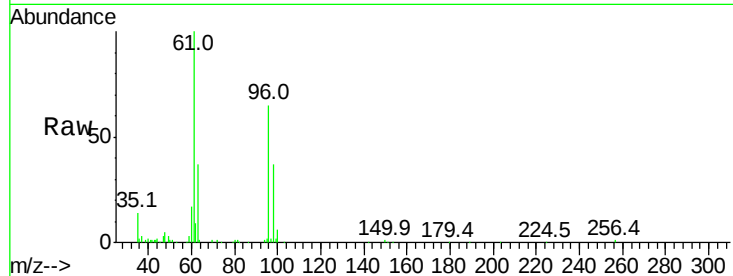


#31

cis-1,2-Dichloroethene
 Concen: 0.892 ppbv
 RT: 5.54 min Scan# 855
 Delta R.T. 0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

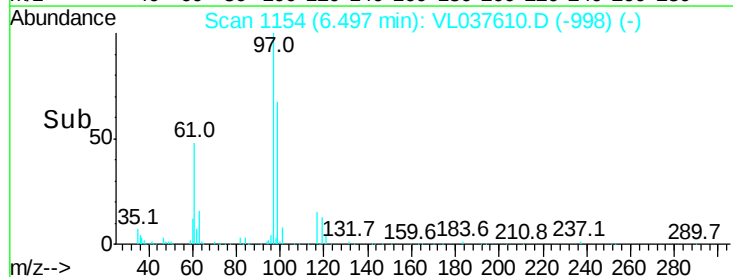
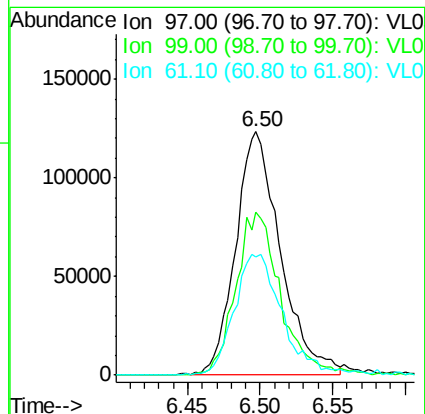
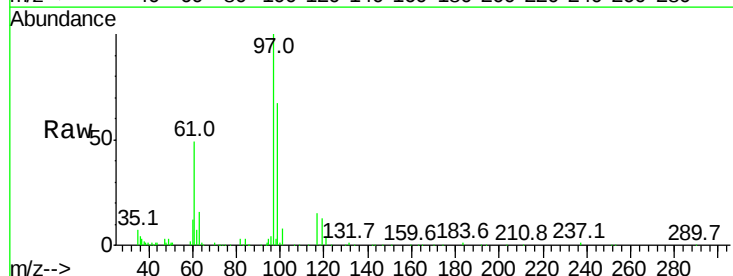
Tgt Ion	Ratio	Lower	Upper
61	100		
96	64.5	56.7	85.1
98	36.9	34.6	52.0

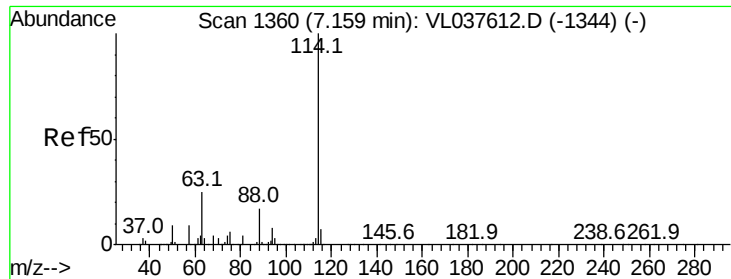


#32

1,1,1-Trichloroethane
 Concen: 0.901 ppbv
 RT: 6.50 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.8	52.3	78.5
61	53.3	39.5	59.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.00 min

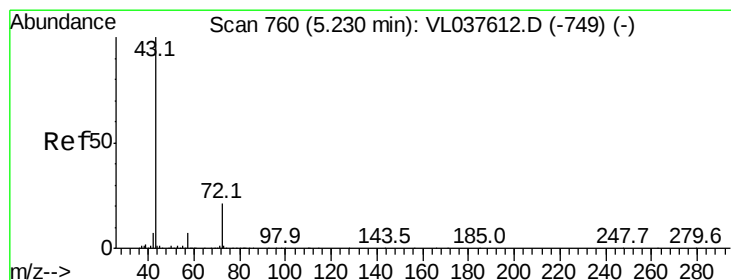
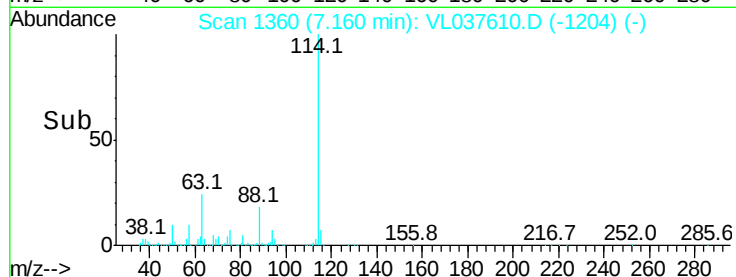
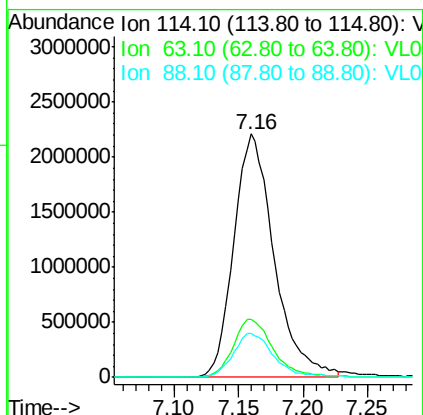
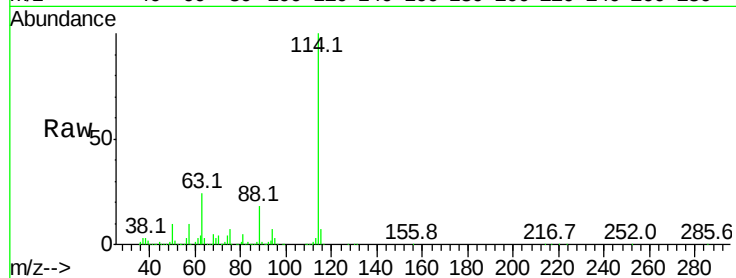
Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:114 Resp: 4810758

Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.6	29.4
88	18.3	14.2	21.4



#34

2-Butanone

Concen: 0.765 ppbv

RT: 5.24 min Scan# 764

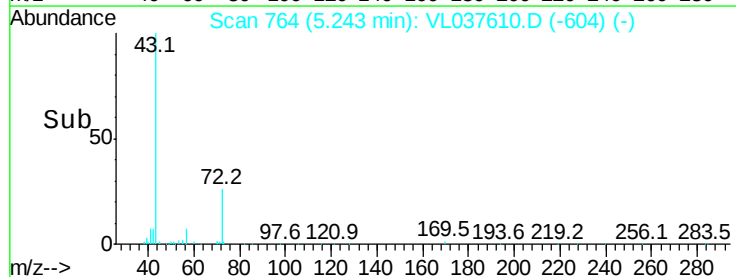
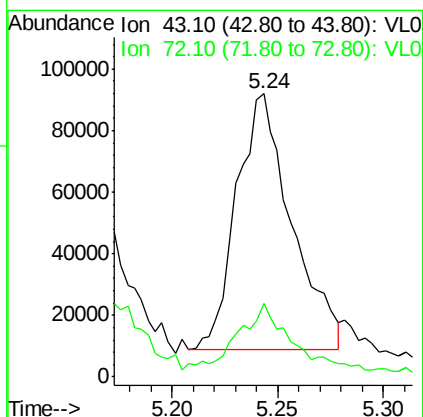
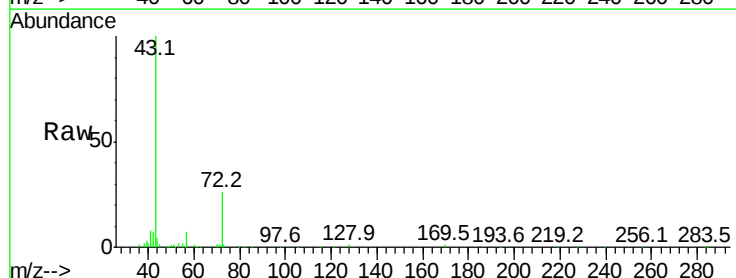
Delta R.T. 0.01 min

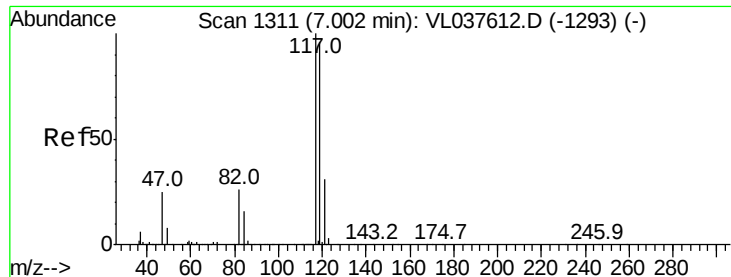
Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Tgt Ion: 43 Resp: 150355

Ion	Ratio	Lower	Upper
43	100		
72	33.4	18.4	27.6#





#35

Carbon Tetrachloride

Concen: 0.942 ppbv

RT: 7.01 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

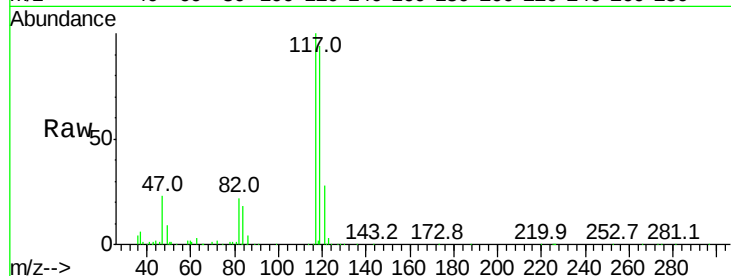
Tgt Ion:117 Resp: 267958

Ion Ratio Lower Upper

117 100

119 93.3 77.0 115.6

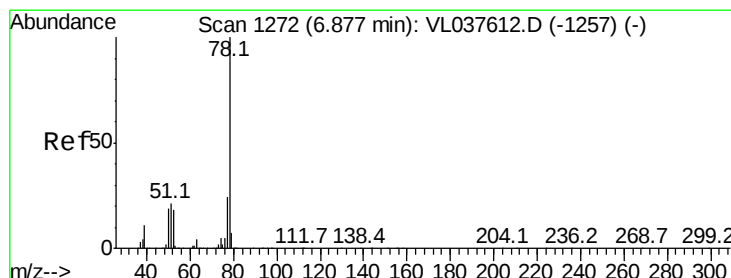
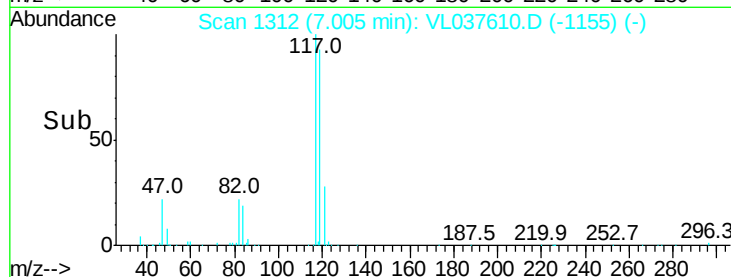
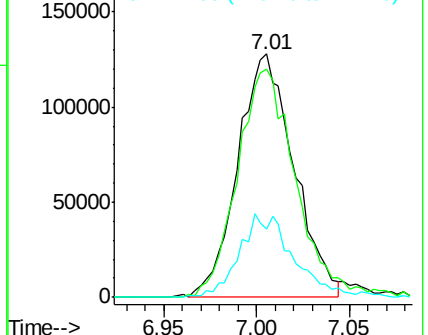
121 27.5 24.5 36.7



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: 0.992 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

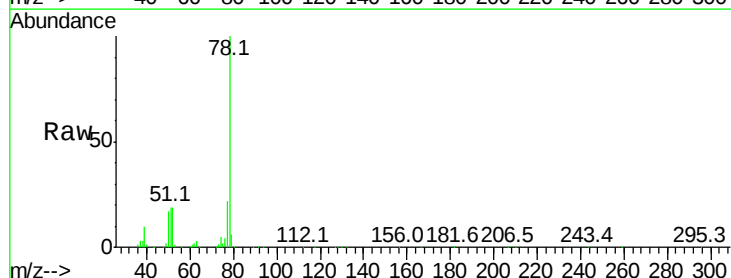
Tgt Ion: 78 Resp: 401127

Ion Ratio Lower Upper

78 100

77 22.1 19.0 28.4

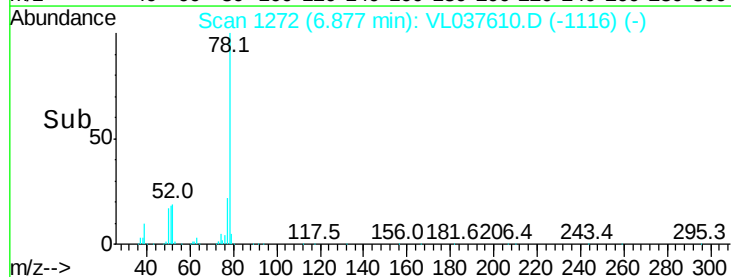
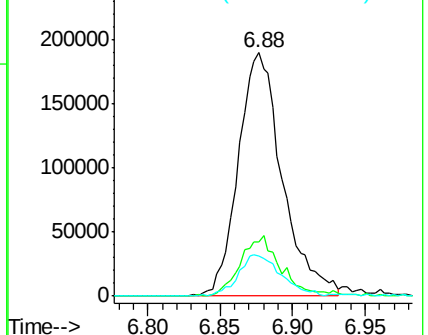
50 15.9 14.8 22.2

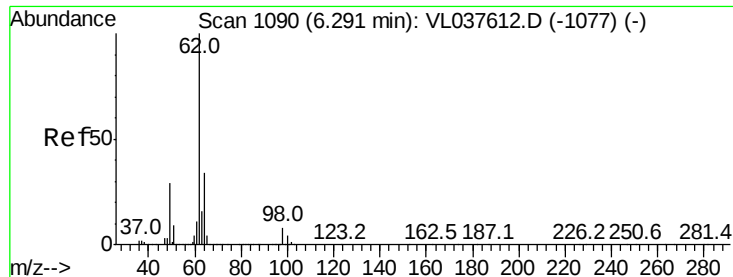


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

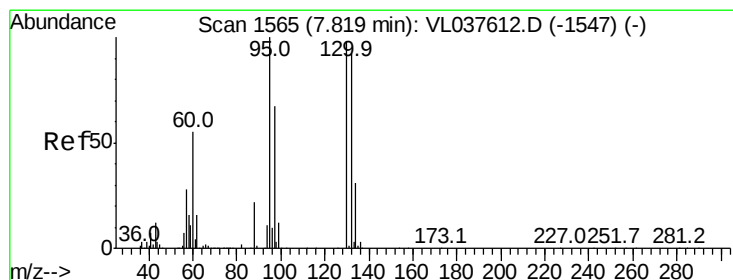
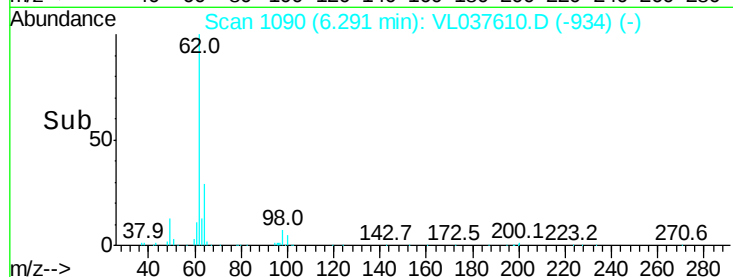
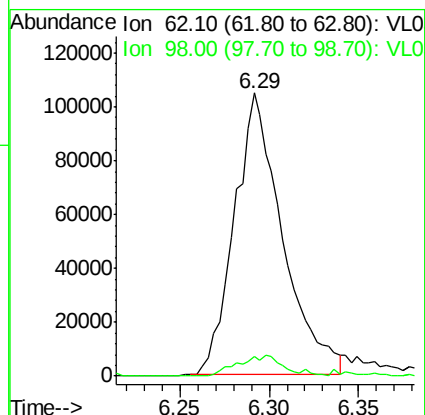
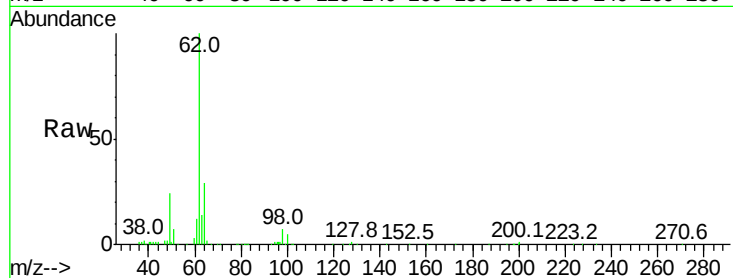




#37
 1,2-Dichloroethane
 Concen: 0.971 ppbv
 RT: 6.29 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

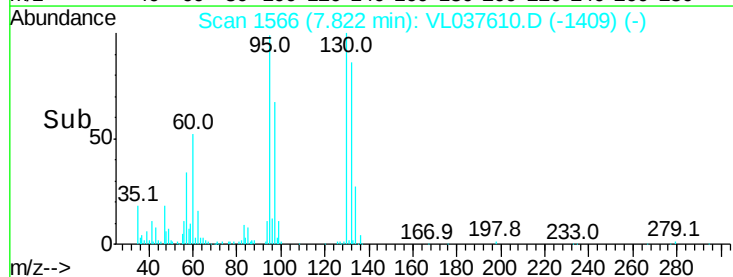
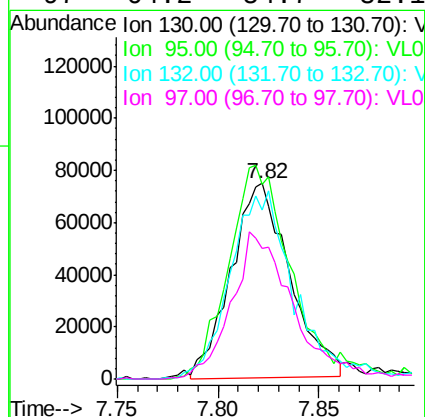
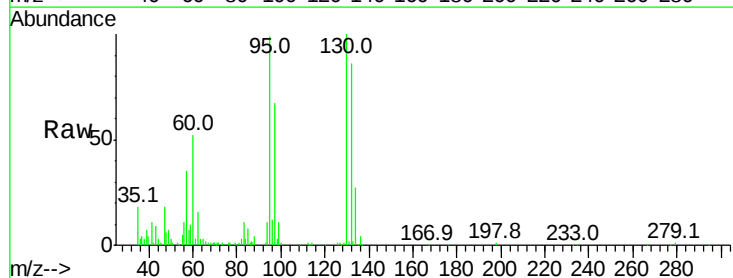
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

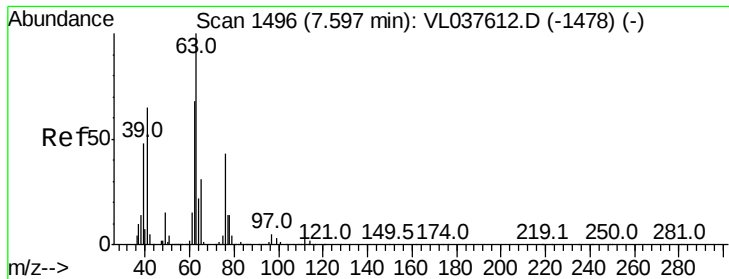
Tgt Ion: 62 Resp: 194540
 Ion Ratio Lower Upper
 62 100
 98 7.5 6.1 9.1



#38
 Trichloroethene
 Concen: 0.916 ppbv
 RT: 7.82 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

Tgt Ion: 130 Resp: 152001
 Ion Ratio Lower Upper
 130 100
 95 95.7 81.8 122.6
 132 83.2 75.3 112.9
 97 64.2 54.7 82.1

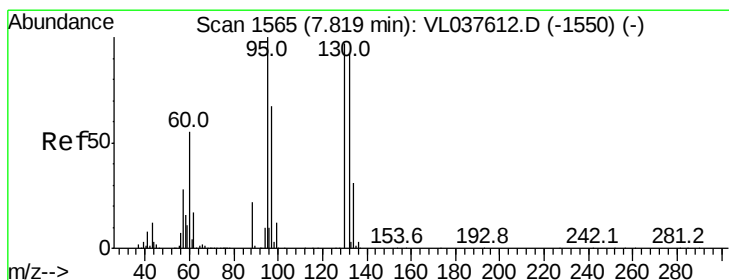
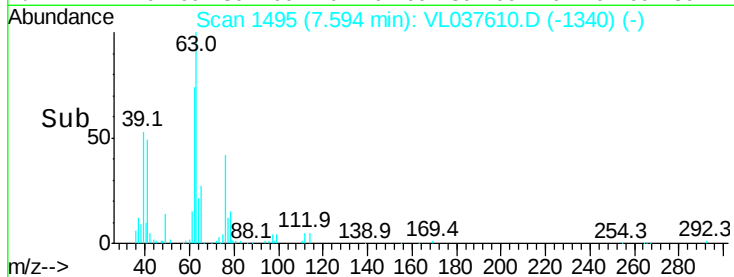
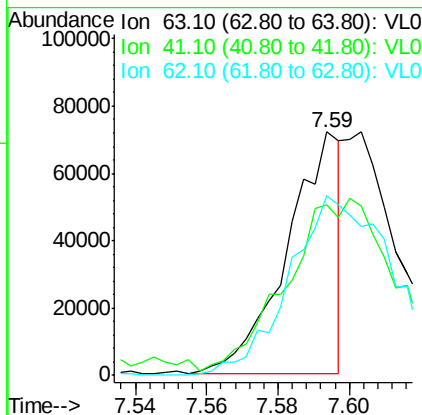
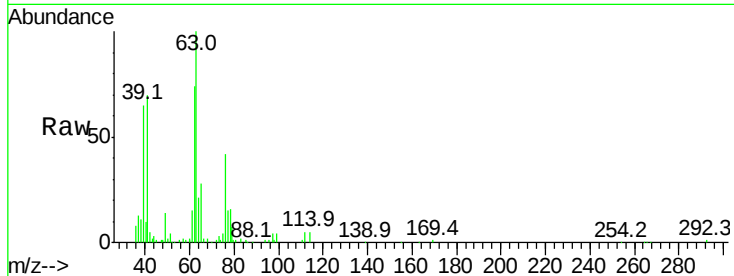




#39
 1,2-Dichloropropane
 Concen: 0.479 ppbv
 RT: 7.59 min Scan# 1495
 Delta R.T. -0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

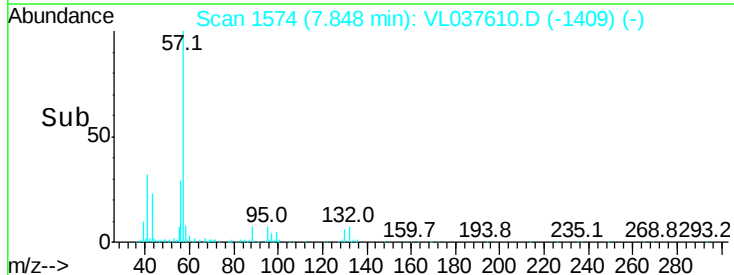
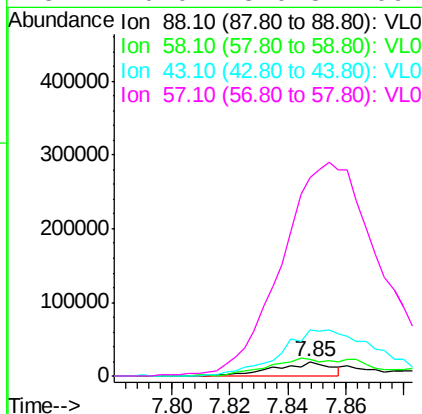
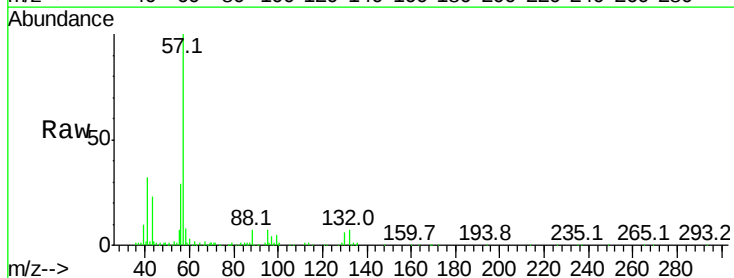
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

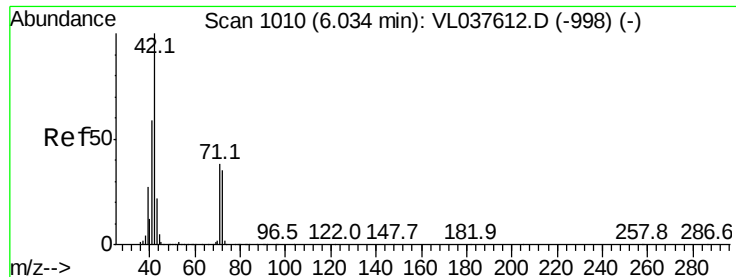
Tgt Ion: 63 Resp: 74419
 Ion Ratio Lower Upper
 63 100
 41 64.6 51.6 77.4
 62 74.4 54.6 81.8



#40
 1,4-Dioxane
 Concen: 0.691 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.03 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

Tgt Ion: 88 Resp: 26293
 Ion Ratio Lower Upper
 88 100
 58 243.7 122.4 183.6#
 43 0.0 297.4 446.0#
 57 0.0 1329.8 1994.8#





#41

Tetrahydrofuran

Concen: 0.272 ppbv

RT: 6.05 min Scan# 1015

Delta R.T. 0.02 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

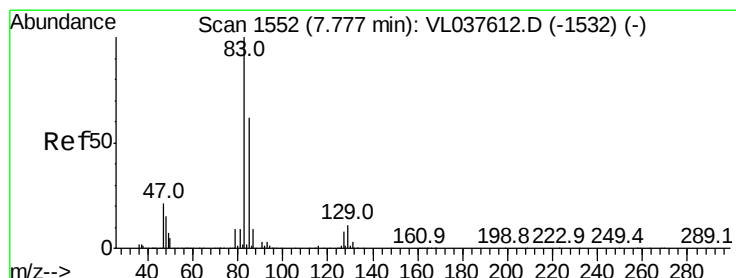
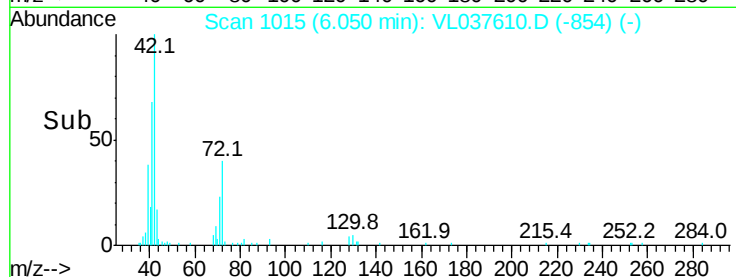
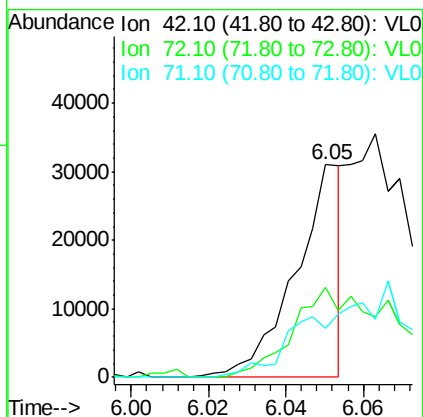
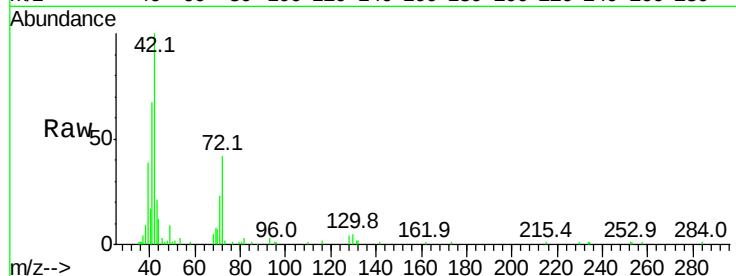
Tgt Ion: 42 Resp: 25719

Ion Ratio Lower Upper

42 100

72 123.4 31.4 47.2#

71 0.0 30.6 46.0#



#42

Bromodichloromethane

Concen: 0.914 ppbv

RT: 7.77 min Scan# 1551

Delta R.T. -0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

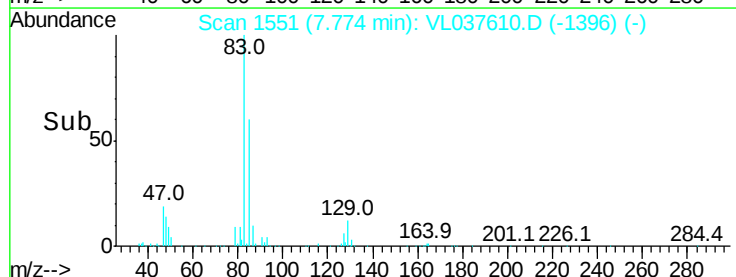
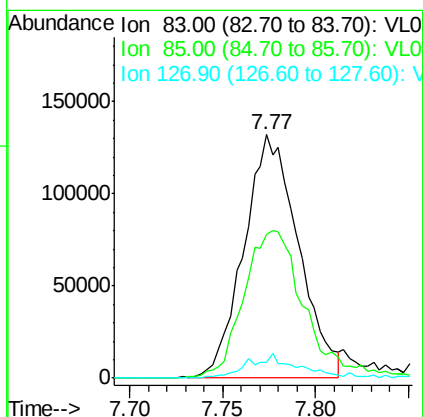
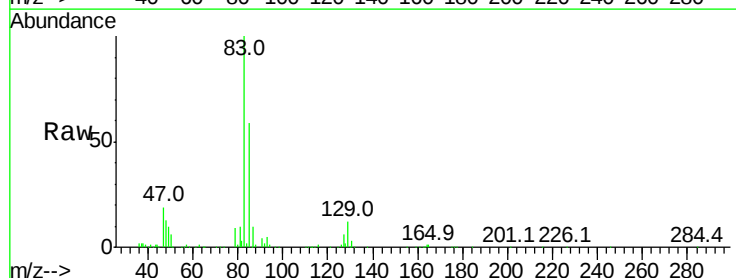
Tgt Ion: 83 Resp: 267608

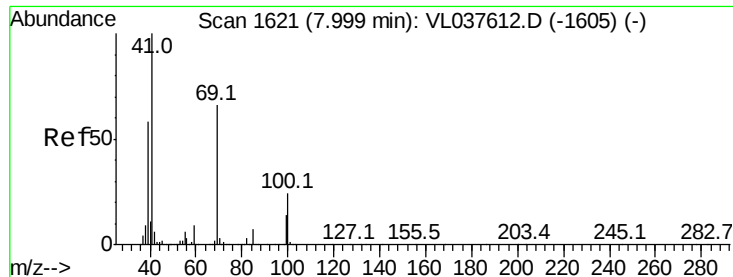
Ion Ratio Lower Upper

83 100

85 58.5 49.8 74.6

127 6.4 6.4 9.6#





#43

Methyl Methacrylate

Concen: 0.500 ppbv

RT: 8.00 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

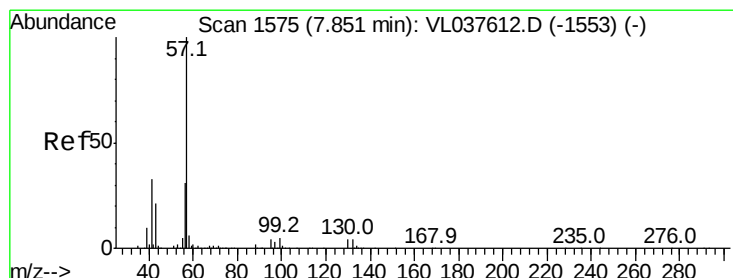
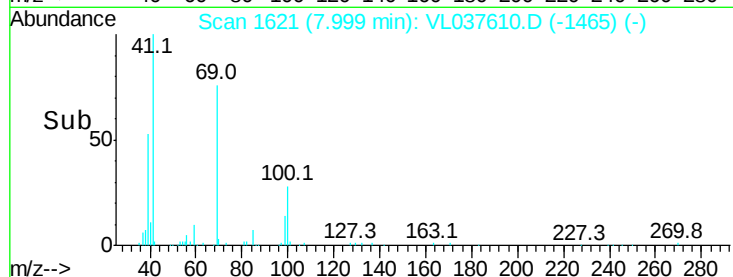
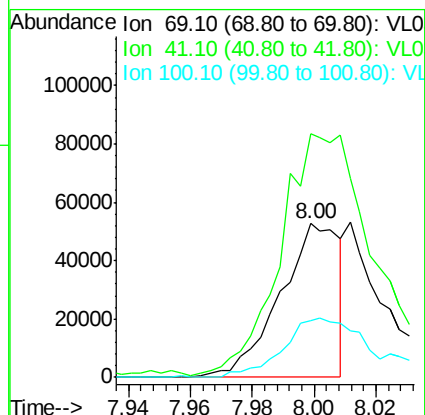
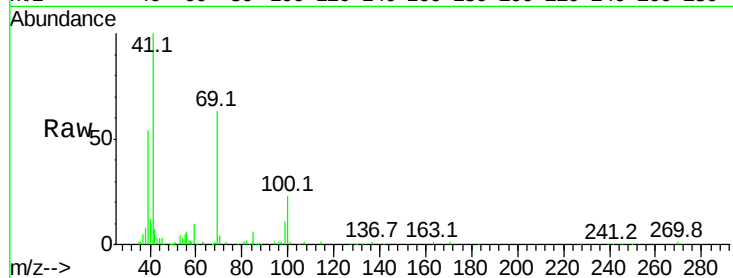
Tgt Ion: 69 Resp: 70419

Ion Ratio Lower Upper

69 100

41 260.8 119.0 178.4#

100 61.0 27.6 41.4#



#44

2,2,4-Trimethylpentane

Concen: 1.015 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

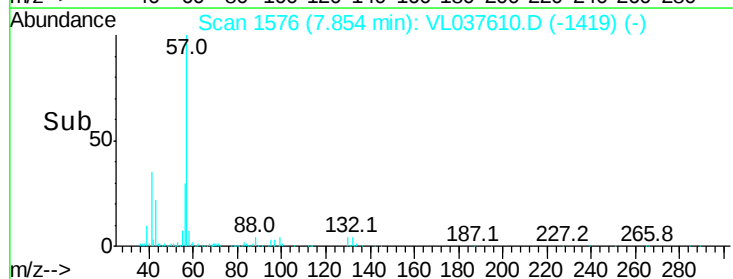
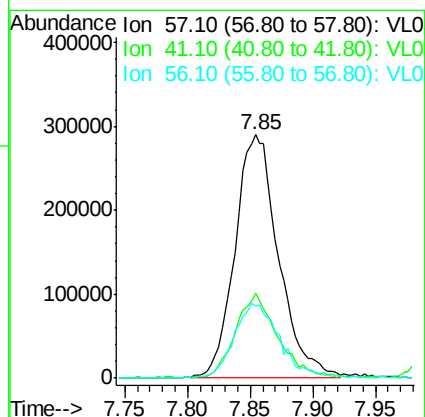
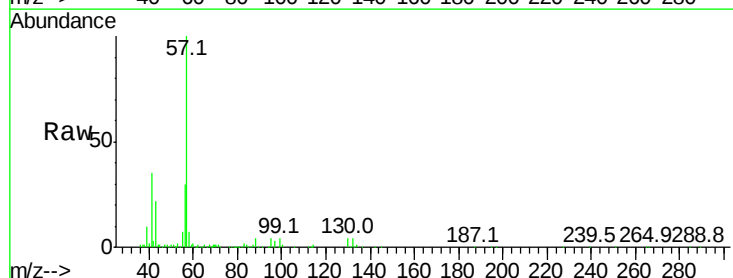
Tgt Ion: 57 Resp: 690676

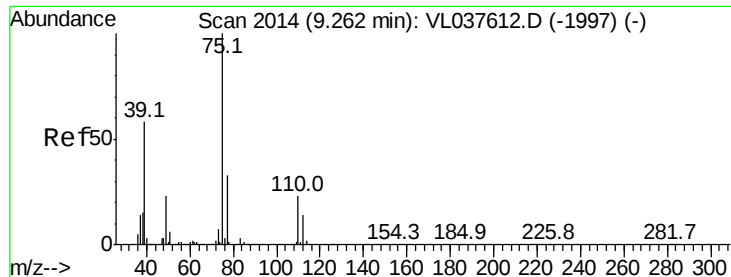
Ion Ratio Lower Upper

57 100

41 34.2 26.1 39.1

56 32.8 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 0.377 ppbv

RT: 9.27 min Scan# 2015

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

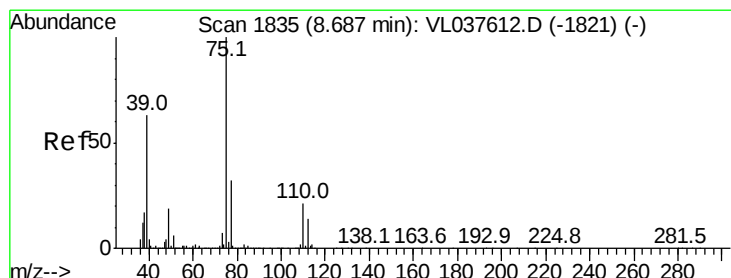
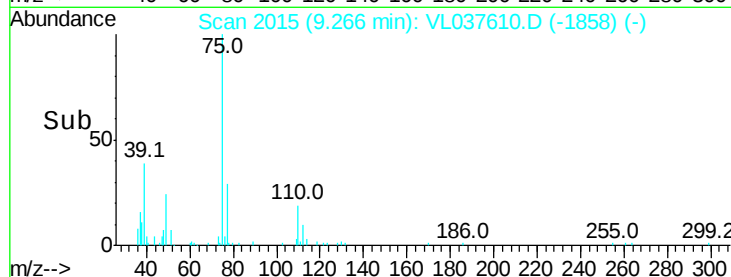
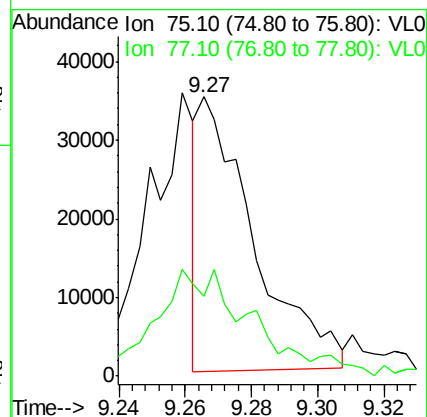
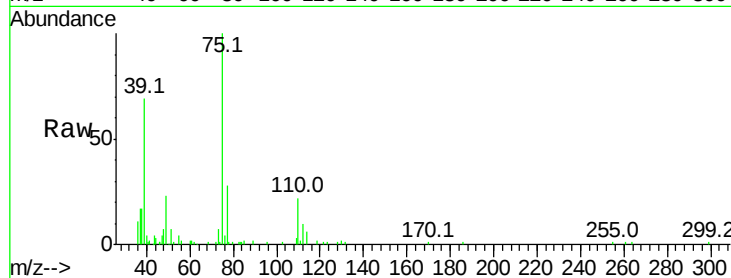
VSTDIC001

Tgt Ion: 75 Resp: 39988

Ion Ratio Lower Upper

75 100

77 28.5 26.3 39.5



#46

cis-1,3-Dichloropropene

Concen: 0.722 ppbv

RT: 8.69 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

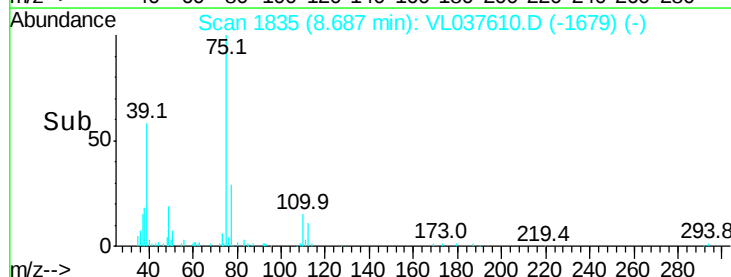
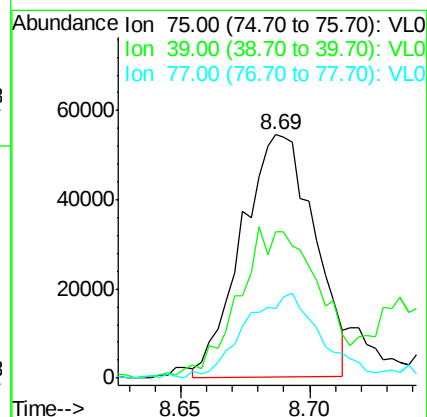
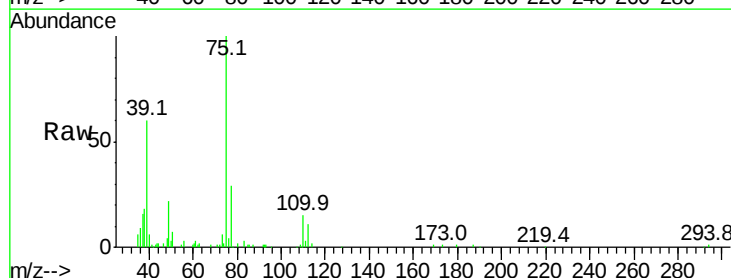
Tgt Ion: 75 Resp: 106833

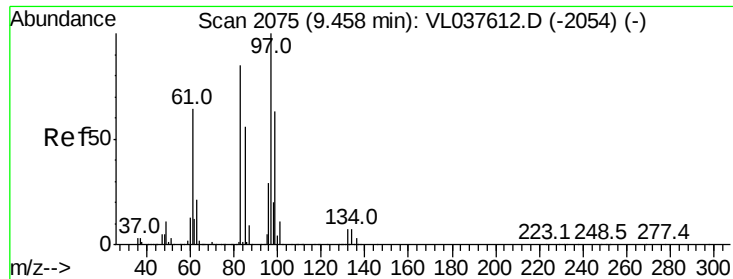
Ion Ratio Lower Upper

75 100

39 57.2 50.2 75.4

77 27.2 25.2 37.8

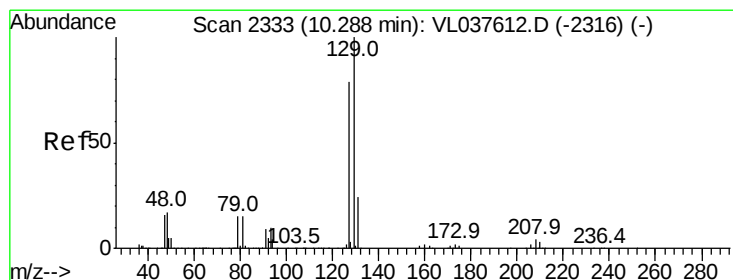
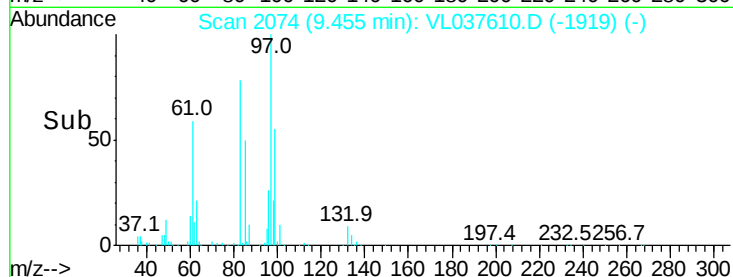
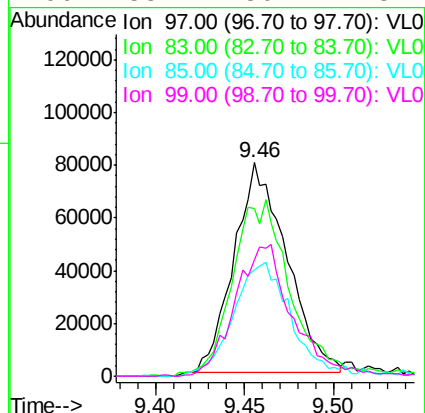
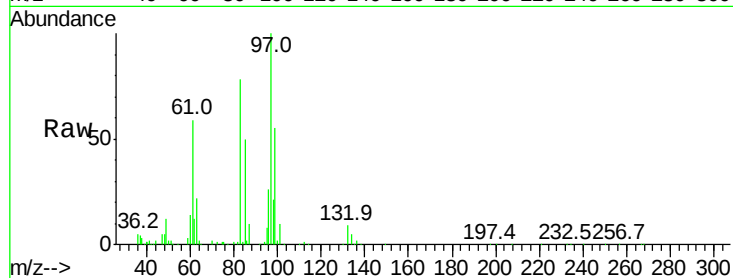




#47
 1,1,2-Trichloroethane
 Concen: 0.973 ppbv
 RT: 9.46 min Scan# 2074
 Delta R.T. -0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

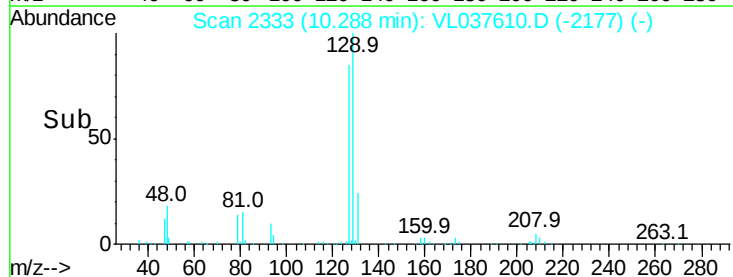
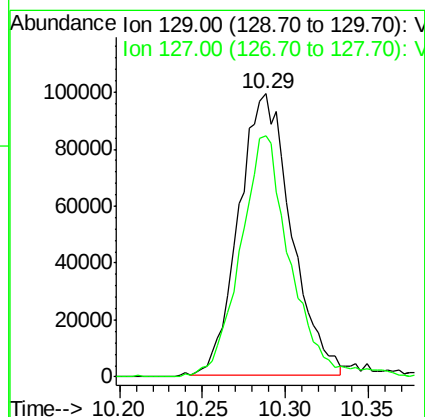
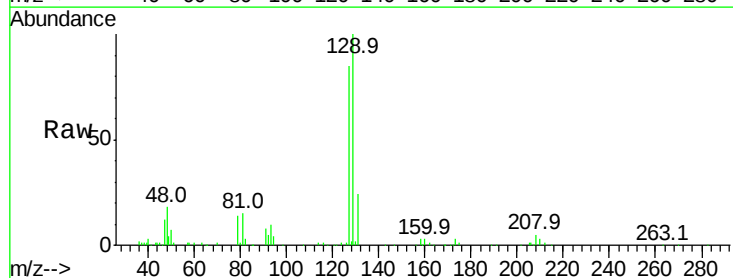
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

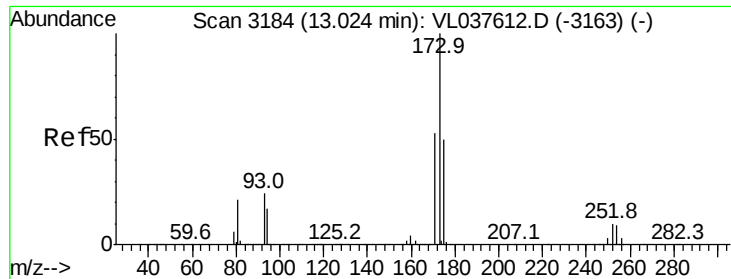
Tgt Ion:	97	Resp:	163348
Ion	Ratio	Lower	Upper
97	100		
83	77.8	67.9	101.9
85	48.9	44.8	67.2
99	55.1	50.1	75.1



#48
 Dibromochloromethane
 Concen: 0.897 ppbv
 RT: 10.29 min Scan# 2333
 Delta R.T. 0.00 min
 Lab File: VL037610.D
 Acq: 16 Sep 2021 8:47

Tgt Ion:	129	Resp:	216660
Ion	Ratio	Lower	Upper
129	100		
127	82.7	39.3	117.8





#49

Bromoform

Concen: 0.888 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.01 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

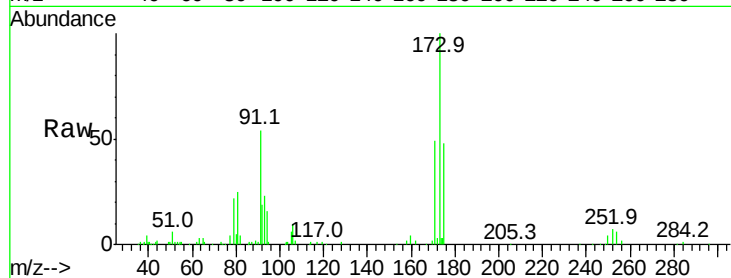
Tgt Ion:173 Resp: 169132

Ion Ratio Lower Upper

173 100

175 51.6 39.8 59.8

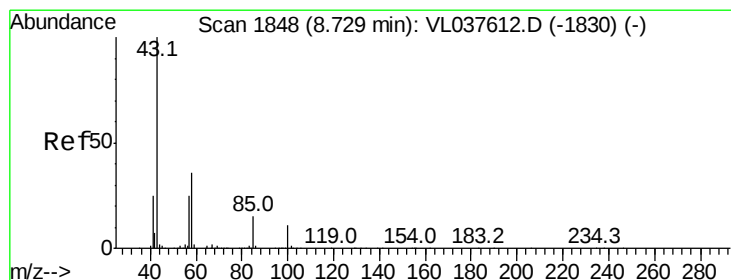
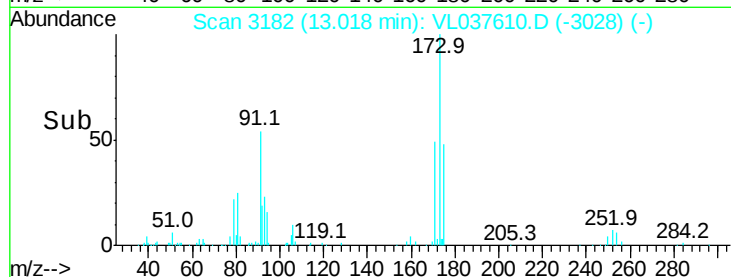
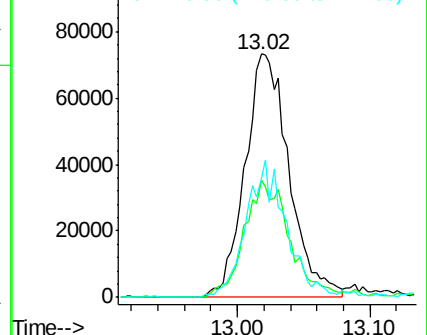
171 52.3 42.2 63.4



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.913 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. 0.01 min

Lab File: VL037610.D

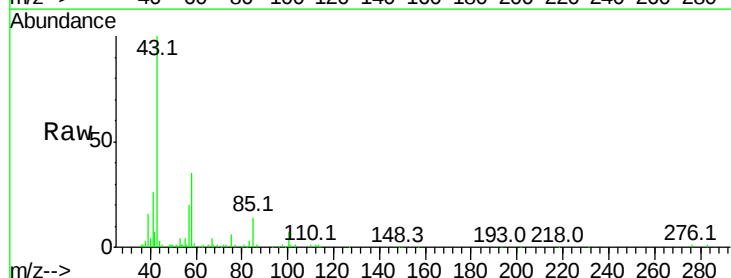
Acq: 16 Sep 2021 8:47

Tgt Ion: 43 Resp: 233877

Ion Ratio Lower Upper

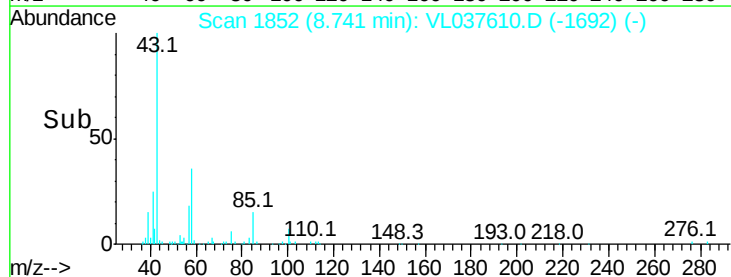
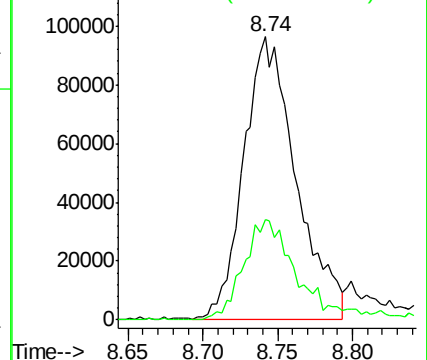
43 100

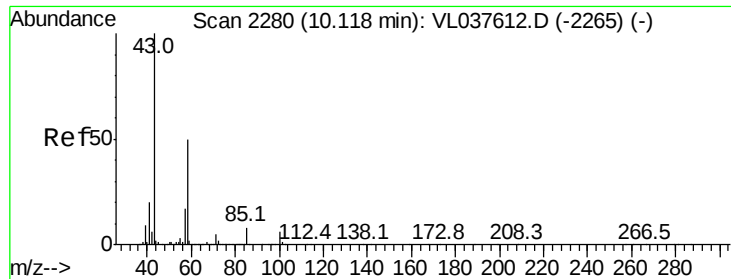
58 38.2 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

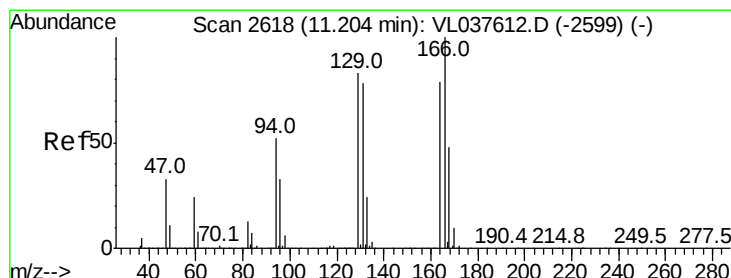
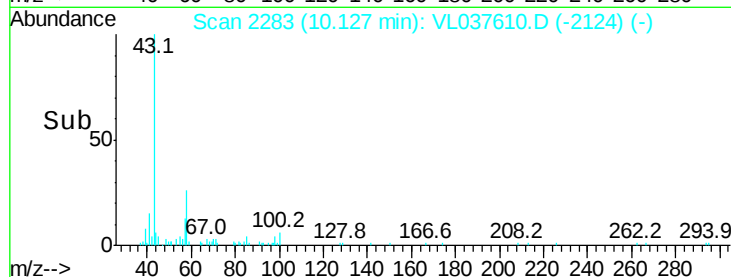
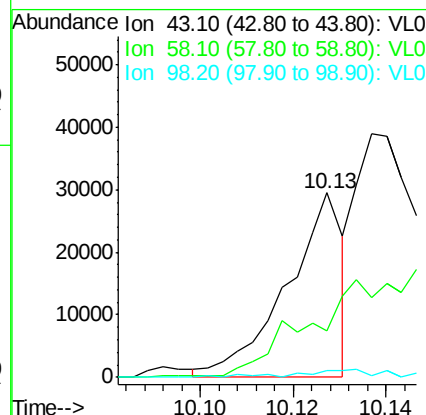
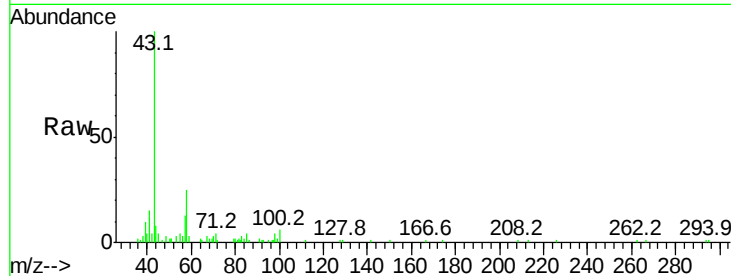




#51
2-Hexanone
Concen: 0.209 ppbv
RT: 10.13 min Scan# 2283
Delta R.T. 0.01 min
Lab File: VL037610.D
Acq: 16 Sep 2021 8:47

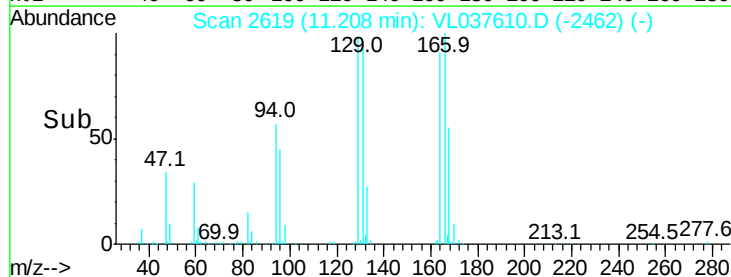
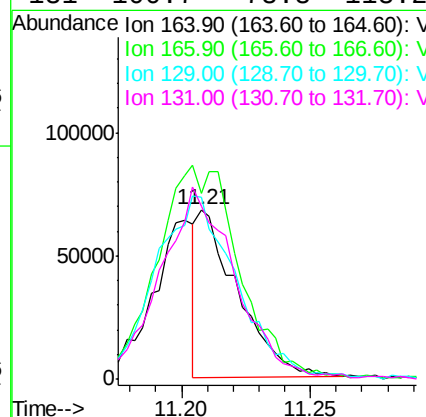
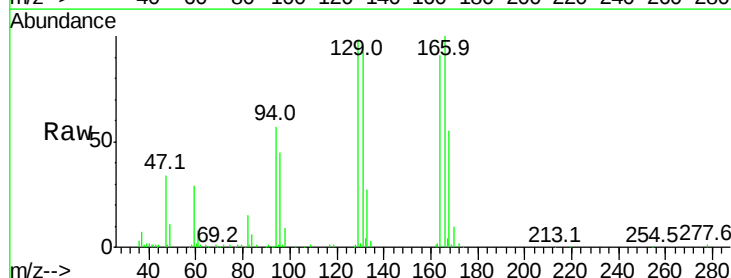
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

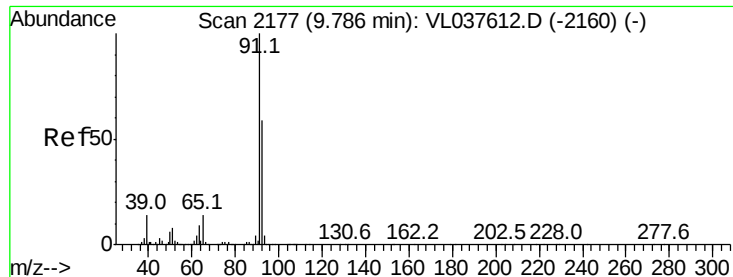
Tgt Ion: 43 Resp: 24669
Ion Ratio Lower Upper
43 100
58 0.0 39.3 58.9#
98 0.0 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.445 ppbv
RT: 11.21 min Scan# 2619
Delta R.T. 0.00 min
Lab File: VL037610.D
Acq: 16 Sep 2021 8:47

Tgt Ion: 164 Resp: 73690
Ion Ratio Lower Upper
164 100
166 109.2 101.2 151.8
129 106.2 84.0 126.0
131 100.7 78.8 118.2





#53

Toluene

Concen: 0.936 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Instrument :

MSVOA_L

ClientSampleId :

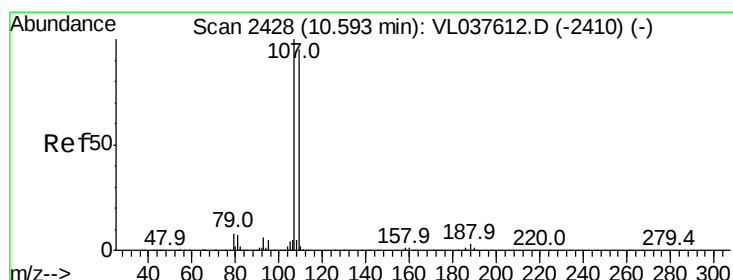
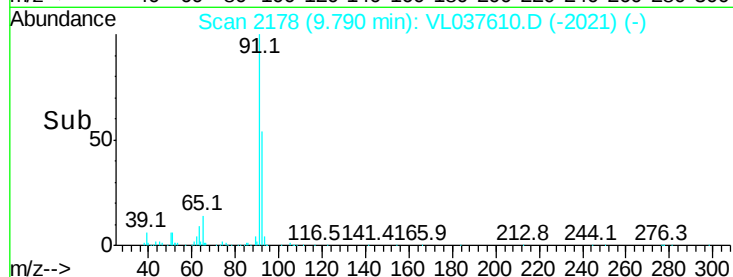
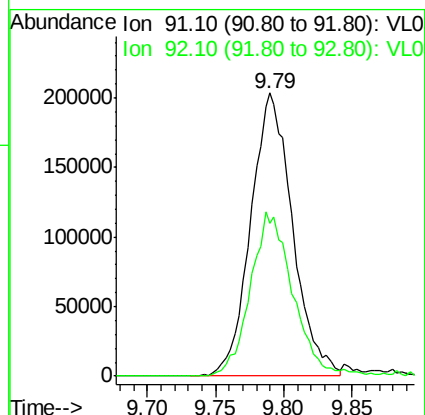
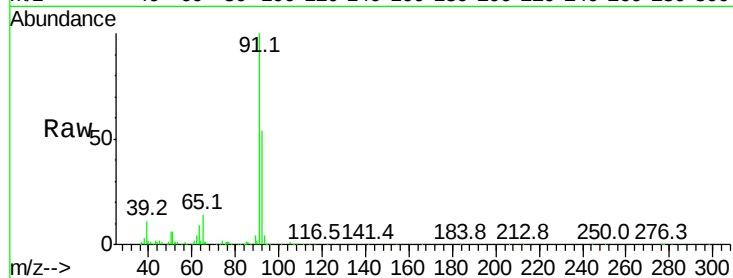
VSTDIC001

Tgt Ion: 91 Resp: 432348

Ion Ratio Lower Upper

91 100

92 59.2 48.9 73.3



#54

1,2-Dibromoethane

Concen: 0.942 ppbv

RT: 10.59 min Scan# 2428

Delta R.T. 0.00 min

Lab File: VL037610.D

Acq: 16 Sep 2021 8:47

Tgt Ion: 107 Resp: 220747

Ion Ratio Lower Upper

107 100

109 89.4 76.0 114.0

