

Data File : VL037513.D

Acq On : 20 Aug 2021 8:43

Operator : SY/AP

Sample : VSTDCCC010

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Aug 20 10:43:34 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 16 14:55:18 2021

QLast Update : Mon Aug 16 14:55:18 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1420198	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4236077	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	4780552	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2709512	7.98	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	79.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	1783899	7.828	ppbv	97
3) Chlorodifluoromethane	2.99	51	2607097	9.587	ppbv	99
4) Chloromethane	3.14	50	983634	10.122	ppbv	94
5) Vinyl Chloride	3.26	62	956052	9.603	ppbv	95
6) Bromomethane	3.48	94	530157	9.721	ppbv	99
7) Chloroethane	3.56	64	342570	10.081	ppbv #	87
8) Dichlorotetrafluoroethane	3.19	85	2213634	9.410	ppbv	100
9) Propene	3.01	41	975916	10.030	ppbv	99
10) Heptane	8.12	43	2393673	10.688	ppbv	98
11) Trichlorofluoromethane	3.95	101	2050453	9.586	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1499449	9.553	ppbv	99
13) Ethanol	3.61	45	101755	10.747	ppbv	88
14) Bromoethene	3.74	108	695455	9.760	ppbv	97
15) Acetone	3.85	43	1229372	8.506	ppbv	100
16) 1,3-Butadiene	3.33	39	960155	10.356	ppbv	98
17) tert-Butyl alcohol	4.29	59	1362067	10.316	ppbv	99
18) 1,1-Dichloroethene	4.29	96	694792	9.745	ppbv	94
19) Isopropyl Alcohol	3.97	45	820736	9.912	ppbv #	95
20) Methylene Chloride	4.35	84	582309	8.047	ppbv	96
21) Allyl Chloride	4.41	41	1144683	9.751	ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	701630	9.864	ppbv	97
23) Vinyl Acetate	5.08	43	2453498	11.516	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1528803	9.894	ppbv	100
25) Ethyl Acetate	5.68	43	3636847	9.912	ppbv	100
26) Hexane	5.69	57	1755065	9.783	ppbv	99
27) Carbon Disulfide	4.56	76	1660314	10.385	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1837915	10.667	ppbv	100
29) Chloroform	5.75	83	2482729	9.765	ppbv	99
30) Cyclohexane	7.13	84	1487961	9.954	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1647488	10.147	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	2344252	9.384	ppbv	98
34) 2-Butanone	5.25	43	1638251	10.087	ppbv	98
35) Carbon Tetrachloride	7.02	117	2453766	9.801	ppbv	99
36) Benzene	6.89	78	3637921	10.216	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1751742	9.931	ppbv	100
38) Trichloroethene	7.84	130	1433312	9.810	ppbv	96
39) 1,2-Dichloropropane	7.62	63	1390051	10.159	ppbv	97
40) 1,4-Dioxane	7.84	88	344025	10.262	ppbv #	100
41) Tetrahydrofuran	6.05	42	875118	10.502	ppbv	99
42) Bromodichloromethane	7.80	83	2634278	10.213	ppbv	98
43) Methyl Methacrylate	8.02	69	1326861	10.691	ppbv	100

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Quant Time: Aug 20 10:43:34 2021
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Aug 16 14:55:18 2021
QLast Update : Mon Aug 16 14:55:18 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	6053766	10.101	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1161580	12.432	ppbv	100
46) cis-1,3-Dichloropropene	8.71	75	1498839	11.500	ppbv	99
47) 1,1,2-Trichloroethane	9.48	97	1470722	9.947	ppbv	98
48) Dibromochloromethane	10.30	129	2296105	10.791	ppbv	99
49) Bromoform	13.04	173	1904878	11.358	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2456849	10.887	ppbv	99
51) 2-Hexanone	10.14	43	1159528	11.171	ppbv #	100
52) Tetrachloroethene	11.23	164	1348909	9.244	ppbv	97
53) Toluene	9.81	91	4236489	10.419	ppbv	100
54) 1,2-Dibromoethane	10.61	107	2107681	10.211	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.13	131	1584028	7.952	ppbv	99
57) Chlorobenzene	12.15	112	3019357	7.611	ppbv	100
58) Ethyl Benzene	12.71	91	5381669	8.112	ppbv	99
59) m/p-Xylene	13.00	91	5479894	9.528	ppbv #	53
60) o-Xylene	13.70	91	4094322	7.627	ppbv	98
61) Styrene	13.53	104	2451490	8.791	ppbv	99
62) Isopropylbenzene	14.67	105	5871406	7.750	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	3041123	7.623	ppbv	99
64) n-propylbenzene	15.56	120	1574150	8.165	ppbv	99
65) tert-Butylbenzene	16.75	119	5306598	7.691	ppbv	99
66) Benzyl Chloride	16.99	91	181044	5.801	ppbv #	58
67) sec-Butylbenzene	17.29	105	7414504	7.691	ppbv	99
69) p-Isopropyltoluene	17.65	119	6256104	7.963	ppbv	99
70) n-Butylbenzene	18.55	91	6164169	8.210	ppbv	99
71) 2-Chlorotoluene	15.45	91	4320689	7.777	ppbv	99
72) 4-Ethyltoluene	15.84	105	5191943	8.132	ppbv	100
73) 1,3,5-Trimethylbenzene	16.00	105	4603072	7.745	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	4895050	7.751	ppbv #	90
75) 1,3-Dichlorobenzene	17.00	146	3036013	7.986	ppbv	98
76) 1,4-Dichlorobenzene	17.14	146	2926342	7.641	ppbv	97
77) 1,2-Dichlorobenzene	17.82	146	2970433	7.935	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	2245685	7.215	ppbv	99
79) Naphthalene	22.19	128	3971186	9.396	ppbv	99
80) Naphthalene,2-methyl-	24.97	142	1273411	10.815	ppbv	98
81) 1,2,4-Trichlorobenzene	21.92	180	2365650	8.920	ppbv	98

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

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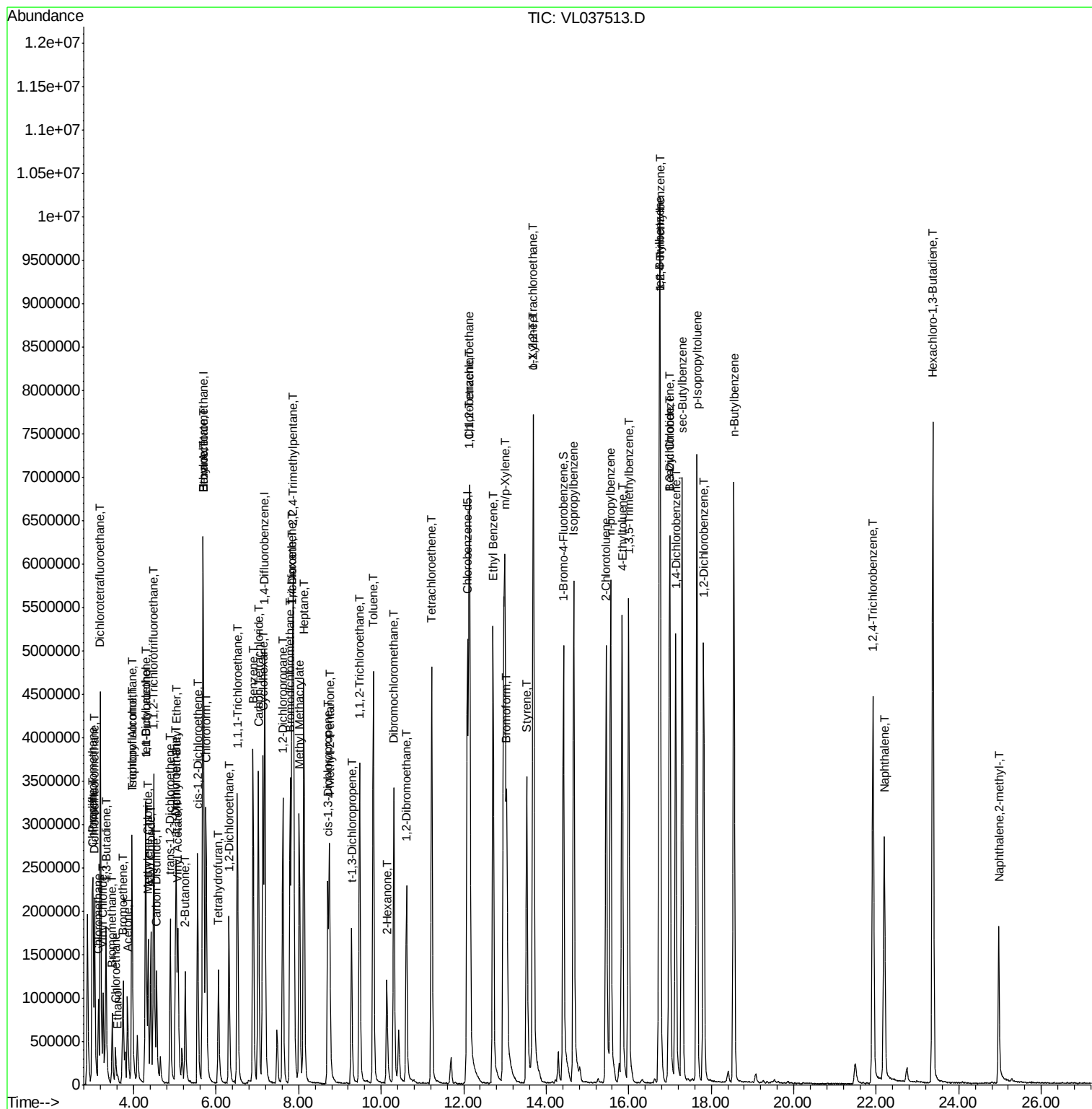
Quant Time: Aug 20 10:43:34 2021

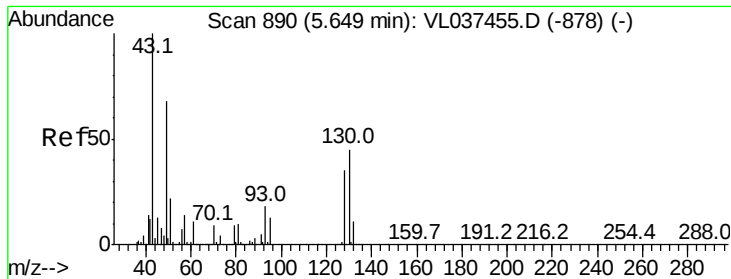
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL081621AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

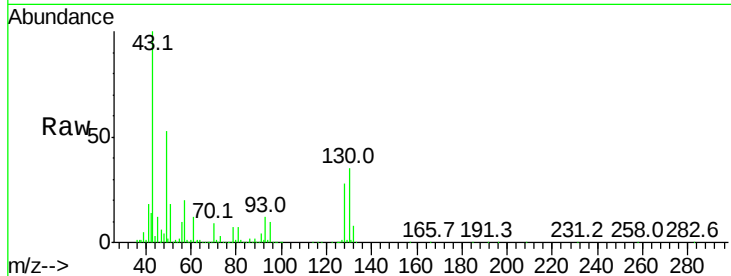
Tgt Ion: 49 Resp: 1420198

Ion Ratio Lower Upper

49 100

128 54.8 27.5 82.4

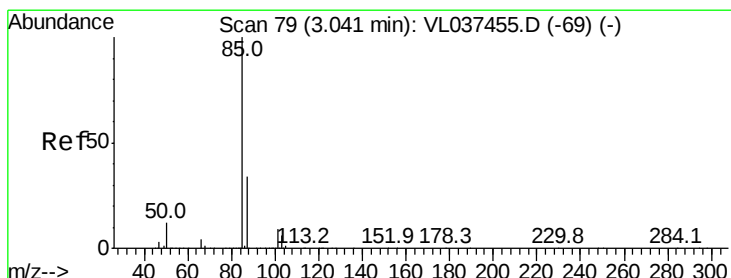
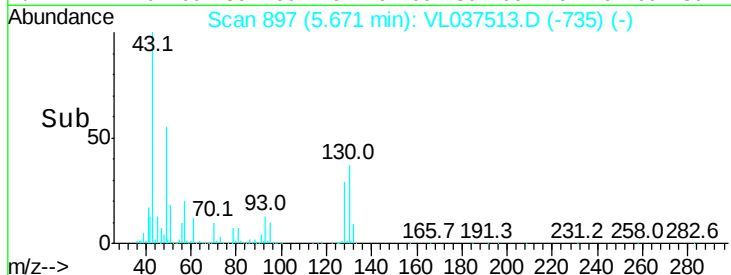
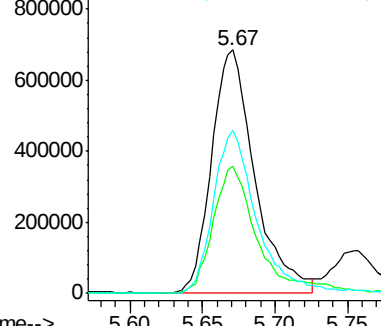
130 68.7 34.0 101.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.828 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL037513.D

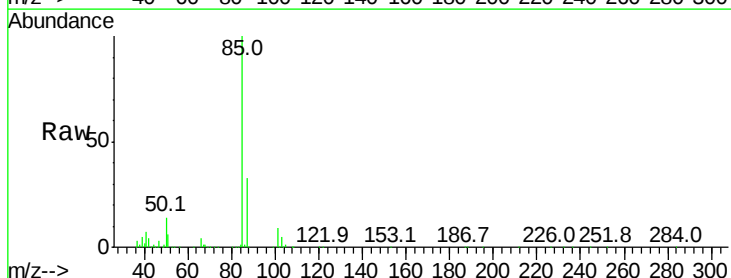
Acq: 20 Aug 2021 8:43

Tgt Ion: 85 Resp: 1783899

Ion Ratio Lower Upper

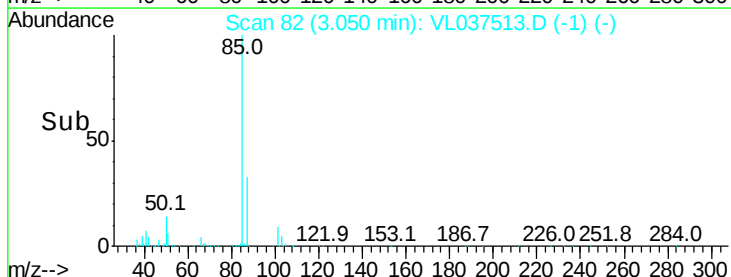
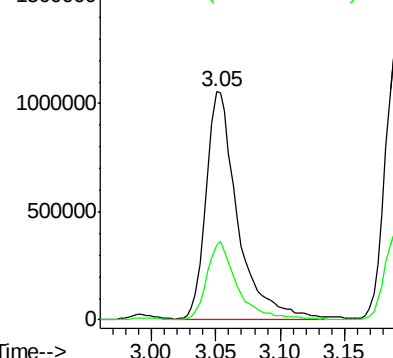
85 100

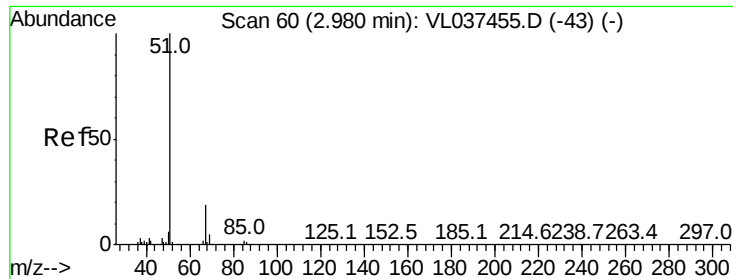
87 32.7 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

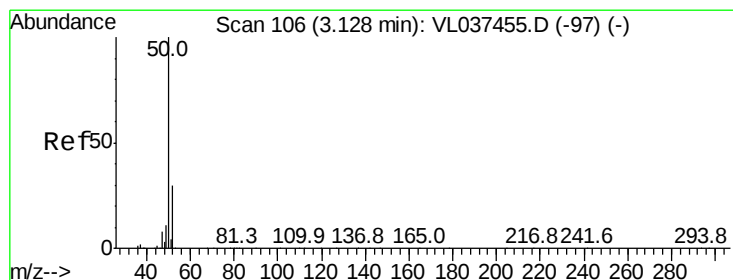
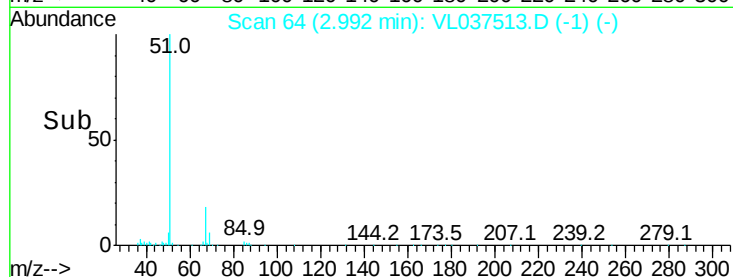
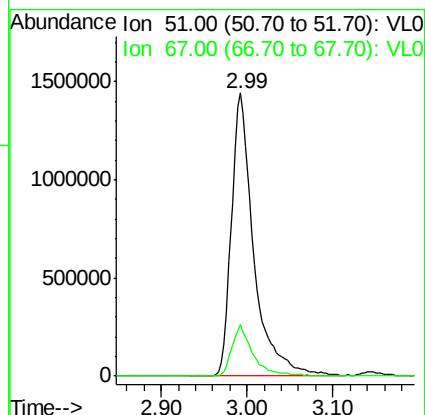
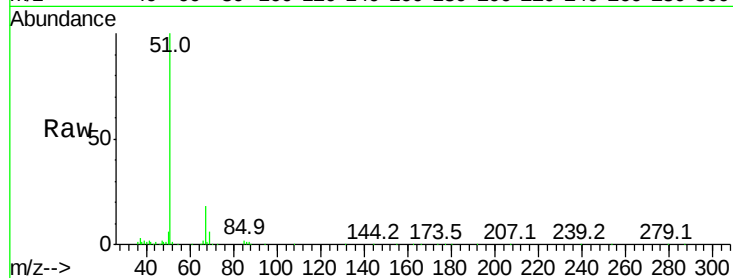




#3
Chlorodifluoromethane
Concen: 9.587 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.01 min
Lab File: VL037513.D
Acq: 20 Aug 2021 8:43

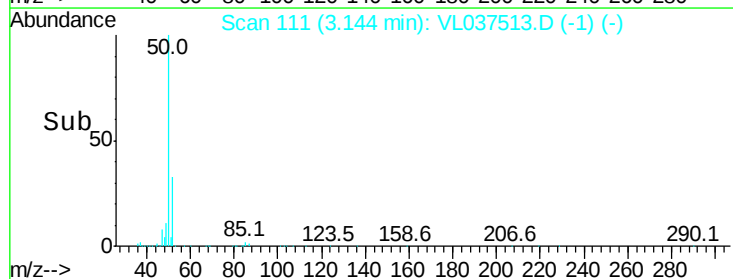
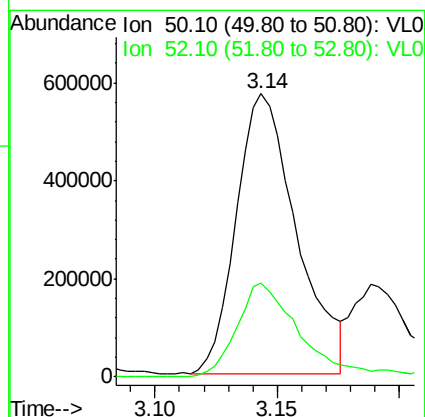
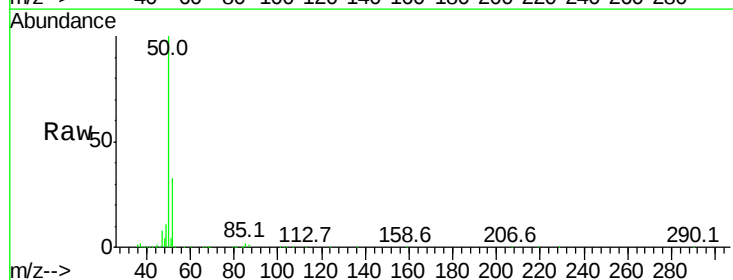
Instrument :
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VSTDCCC010EC

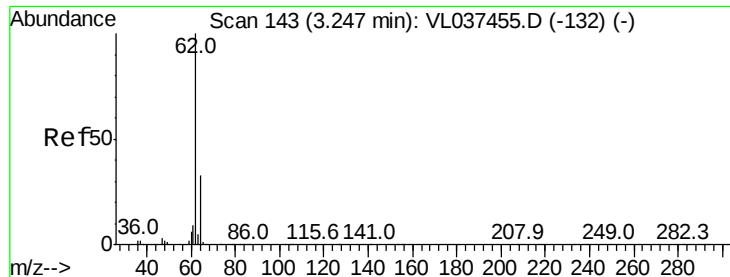
Tgt Ion: 51 Resp: 2607097
Ion Ratio Lower Upper
51 100
67 17.2 14.2 21.2



#4
Chloromethane
Concen: 10.122 ppbv
RT: 3.14 min Scan# 111
Delta R.T. 0.02 min
Lab File: VL037513.D
Acq: 20 Aug 2021 8:43

Tgt Ion: 50 Resp: 983634
Ion Ratio Lower Upper
50 100
52 33.5 24.0 36.0





#5

Vinyl Chloride

Concen: 9.603 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA_L

ClientSampleId :

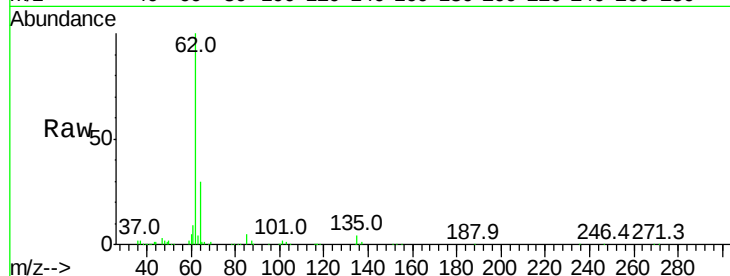
VSTDCCC010EC

Tgt Ion: 62 Resp: 956052

Ion Ratio Lower Upper

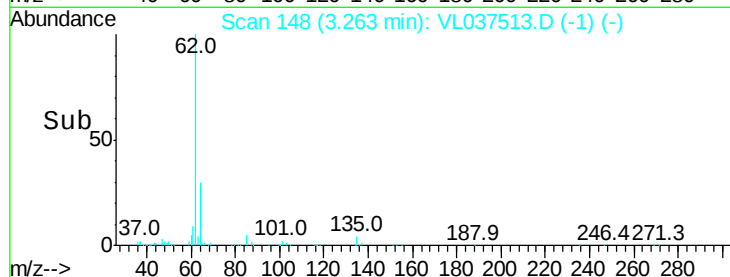
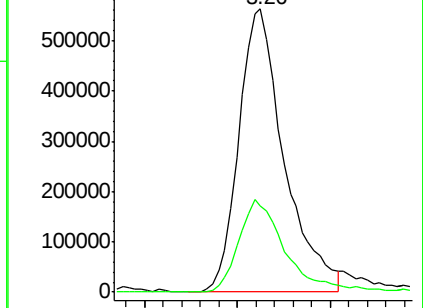
62 100

64 30.4 26.5 39.7

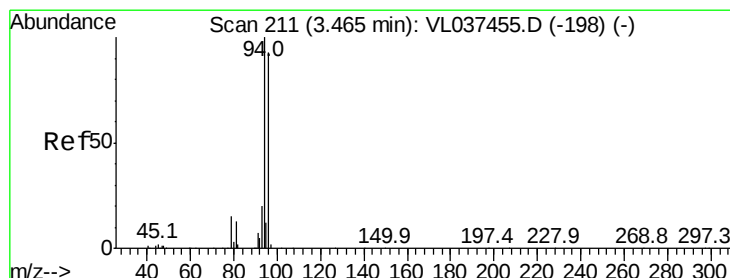


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.721 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.01 min

Lab File: VL037513.D

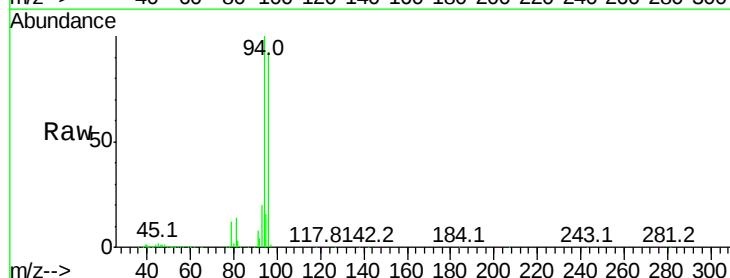
Acq: 20 Aug 2021 8:43

Tgt Ion: 94 Resp: 530157

Ion Ratio Lower Upper

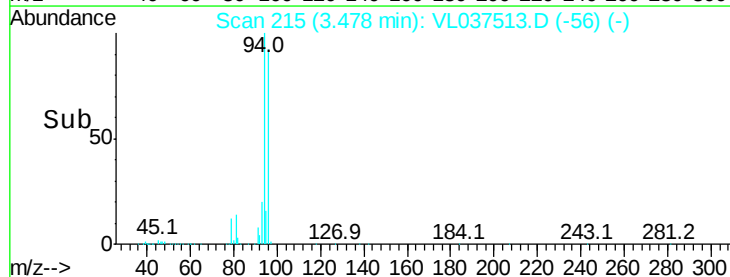
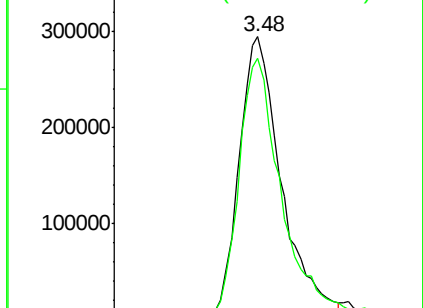
94 100

96 92.5 74.5 111.7

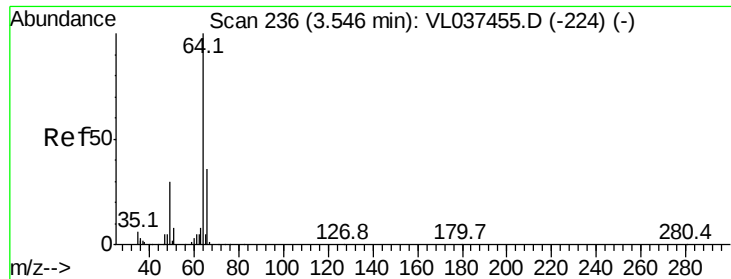


Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->



#7

Chloroethane

Concen: 10.081 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

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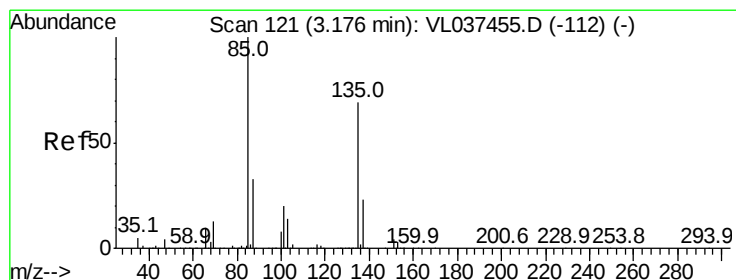
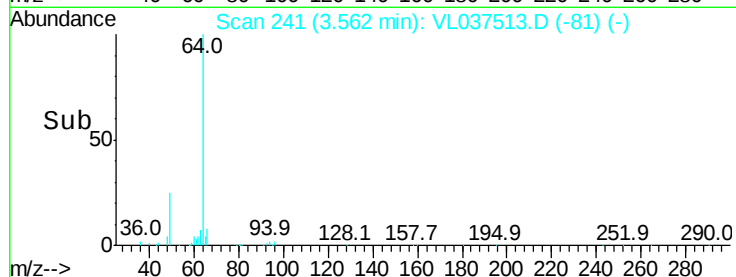
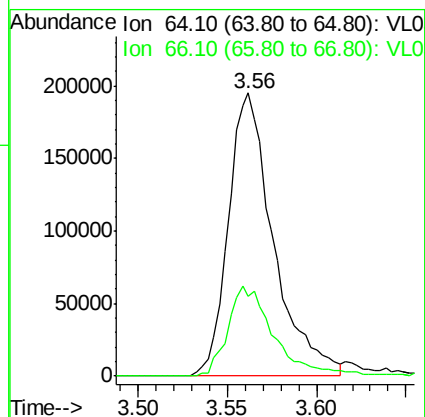
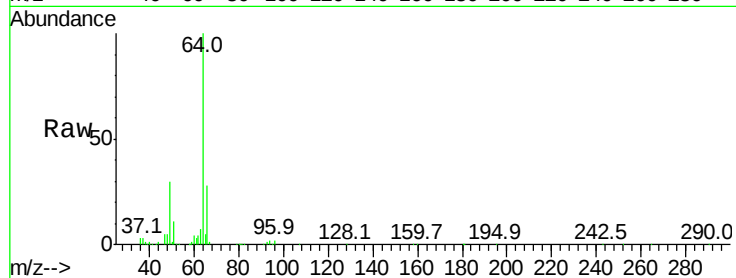
VSTDCCC010EC

Tgt Ion: 64 Resp: 342570

Ion Ratio Lower Upper

64 100

66 28.1 28.6 43.0#



#8

Dichlorotetrafluoroethane

Concen: 9.410 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.02 min

Lab File: VL037513.D

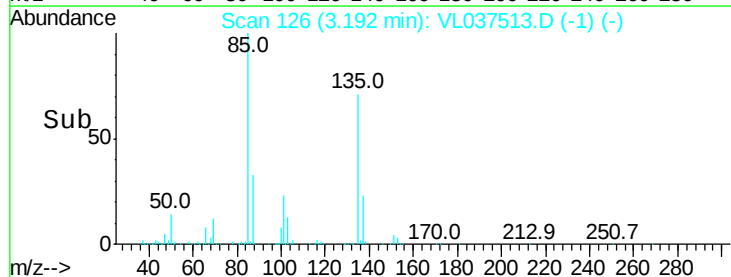
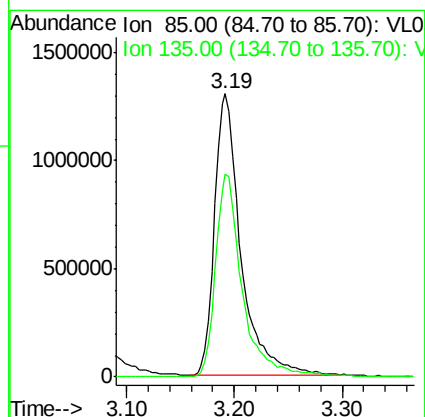
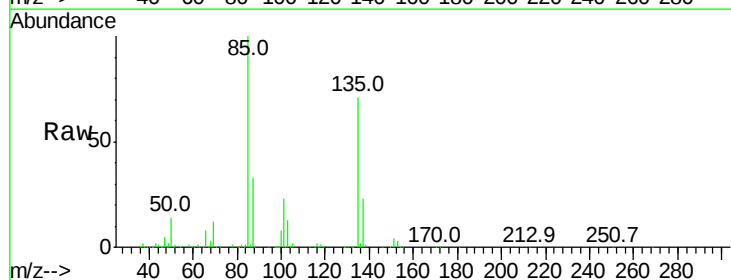
Acq: 20 Aug 2021 8:43

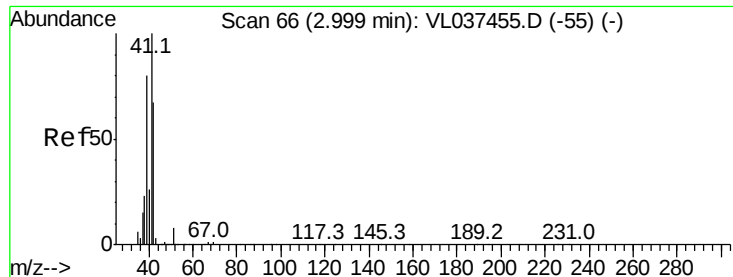
Tgt Ion: 85 Resp: 2213634

Ion Ratio Lower Upper

85 100

135 73.7 58.8 88.2





#9

Propene

Concen: 10.030 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

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ClientSampleId :

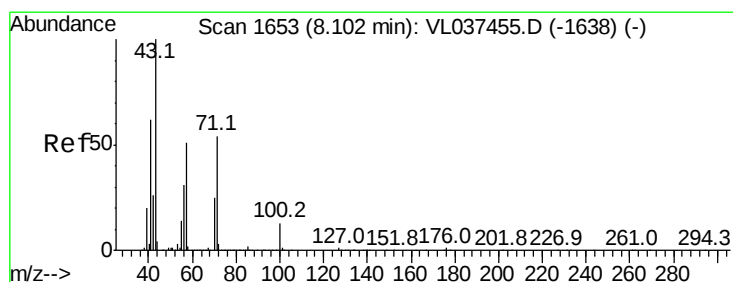
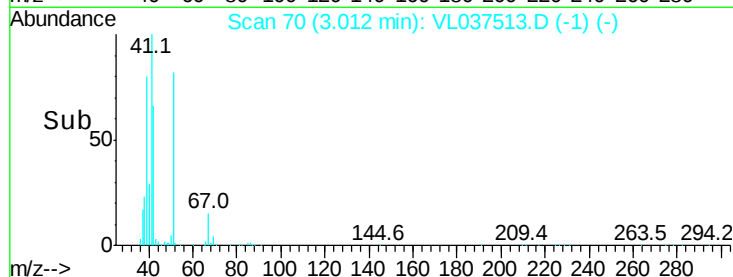
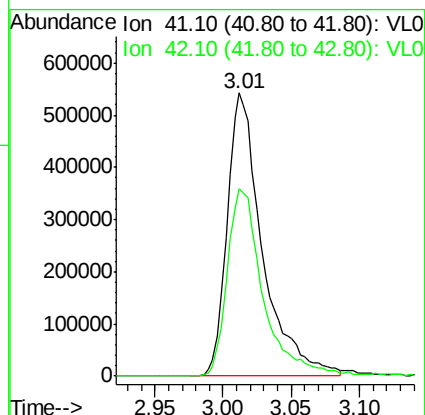
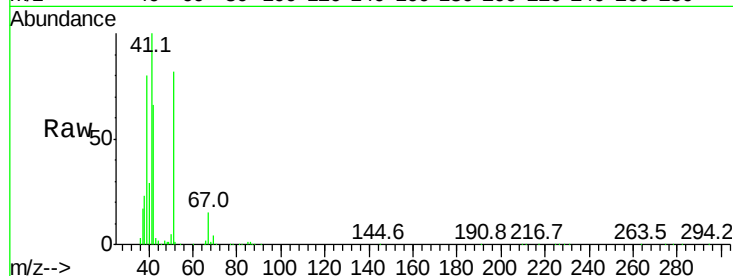
VSTDCCC010EC

Tgt Ion: 41 Resp: 975916

Ion Ratio Lower Upper

41 100

42 67.9 53.7 80.5



#10

Heptane

Concen: 10.688 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Tgt Ion: 43 Resp: 2393673

Ion Ratio Lower Upper

43 100

57 49.6 41.0 61.6

