

Data File : VL037440.D

Acq On : 13 Aug 2021 8:48

Operator : SY/AP

Sample : VSTDCCC010

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Aug 13 09:19:02 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081221AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 12 15:26:13 2021

QLast Update : Thu Aug 12 15:26:13 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1259289	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3841776	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	4261234	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2510867	8.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	1987523	10.330	ppbv	99
3) Chlorodifluoromethane	2.98	51	2339641	9.461	ppbv	100
4) Chloromethane	3.14	50	839020	9.439	ppbv	99
5) Vinyl Chloride	3.26	62	896175	9.869	ppbv	96
6) Bromomethane	3.47	94	434121	8.547	ppbv	95
7) Chloroethane	3.56	64	309888	9.583	ppbv	91
8) Dichlorotetrafluoroethane	3.19	85	2099146	9.776	ppbv	99
9) Propene	3.01	41	802721	9.667	ppbv	99
10) Heptane	8.12	43	2030616	10.056	ppbv	100
11) Trichlorofluoromethane	3.95	101	1992846	9.573	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1465607	10.049	ppbv	97
13) Ethanol	3.61	45	44444	5.015	ppbv #	31
14) Bromoethene	3.74	108	656909	10.127	ppbv	99
15) Acetone	3.85	43	1151919	8.625	ppbv	97
16) 1,3-Butadiene	3.32	39	853745	9.525	ppbv	99
17) tert-Butyl alcohol	4.29	59	1182374	9.275	ppbv	97
18) 1,1-Dichloroethene	4.29	96	644143	9.513	ppbv	97
19) Isopropyl Alcohol	3.97	45	678273	8.727	ppbv	98
20) Methylene Chloride	4.34	84	616960	8.737	ppbv	97
21) Allyl Chloride	4.41	41	970936	9.278	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	643685	10.135	ppbv	96
23) Vinyl Acetate	5.07	43	2093485	10.216	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1666287	10.469	ppbv	100
25) Ethyl Acetate	5.67	43	3228995	10.145	ppbv	99
26) Hexane	5.68	57	1532461	9.330	ppbv	99
27) Carbon Disulfide	4.55	76	1583713	11.436	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1805703	10.273	ppbv	100
29) Chloroform	5.75	83	2253287	9.744	ppbv	100
30) Cyclohexane	7.12	84	1306726	9.660	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1465595	10.323	ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	2197650	9.416	ppbv	99
34) 2-Butanone	5.24	43	1370688	8.642	ppbv	96
35) Carbon Tetrachloride	7.01	117	2277638	9.614	ppbv	97
36) Benzene	6.89	78	3170045	9.786	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1604589	9.706	ppbv	99
38) Trichloroethene	7.83	130	1242564	8.690	ppbv	96
39) 1,2-Dichloropropane	7.61	63	1198779	9.714	ppbv	98
40) 1,4-Dioxane	7.83	88	151872	5.057	ppbv #	100
41) Tetrahydrofuran	6.05	42	733644	10.072	ppbv	98
42) Bromodichloromethane	7.79	83	2354446	10.171	ppbv	97
43) Methyl Methacrylate	8.01	69	1144592	10.425	ppbv	99

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VSTDCCC010EC

Quant Time: Aug 13 09:19:02 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081221AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 12 15:26:13 2021

QLast Update : Thu Aug 12 15:26:13 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5254112	9.701	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	320252	3.925	ppbv	95
46) cis-1,3-Dichloropropene	8.70	75	978620	8.592	ppbv	99
47) 1,1,2-Trichloroethane	9.47	97	1250149	9.371	ppbv	95
48) Dibromochloromethane	10.30	129	2019994	10.495	ppbv	98
49) Bromoform	13.03	173	1566450	10.741	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	2059160	10.320	ppbv	99
51) 2-Hexanone	10.13	43	973724	10.372	ppbv #	98
52) Tetrachloroethene	11.22	164	1144934	8.390	ppbv	97
53) Toluene	9.80	91	3668647	9.920	ppbv	98
54) 1,2-Dibromoethane	10.61	107	1776509	9.785	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.12	131	1388590	8.186	ppbv	97
57) Chlorobenzene	12.14	112	2589467	7.498	ppbv	99
58) Ethyl Benzene	12.70	91	4577729	7.919	ppbv	99
59) m/p-Xylene	12.99	91	3950169	7.779	ppbv #	30
60) o-Xylene	13.68	91	3532712	7.489	ppbv	98
61) Styrene	13.52	104	2038171	8.552	ppbv	99
62) Isopropylbenzene	14.66	105	5108865	7.573	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	2600605	7.310	ppbv	99
64) n-propylbenzene	15.55	120	1340805	7.898	ppbv	99
65) tert-Butylbenzene	16.74	119	4589997	7.545	ppbv	99
66) Benzyl Chloride	16.98	91	193161	6.939	ppbv #	97
67) sec-Butylbenzene	17.28	105	6359902	7.683	ppbv	100
69) p-Isopropyltoluene	17.64	119	5332070	7.848	ppbv	100
70) n-Butylbenzene	18.54	91	5184549	8.210	ppbv	99
71) 2-Chlorotoluene	15.44	91	3733099	7.824	ppbv	100
72) 4-Ethyltoluene	15.83	105	4368193	7.978	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	4098626	7.917	ppbv	100
74) 1,2,4-Trimethylbenzene	16.76	105	4153113	7.836	ppbv	95
75) 1,3-Dichlorobenzene	16.99	146	2492535	7.685	ppbv	100
76) 1,4-Dichlorobenzene	17.13	146	2457386	7.642	ppbv	97
77) 1,2-Dichlorobenzene	17.81	146	2375715	7.612	ppbv	100
78) Hexachloro-1,3-Butadiene	23.36	225	1811073	7.164	ppbv	99
79) Naphthalene	22.18	128	2966035	10.297	ppbv	98
80) Naphthalene,2-methyl-	24.96	142	709367	11.660	ppbv	95
81) 1,2,4-Trichlorobenzene	21.91	180	1833339	9.367	ppbv	99

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

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Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

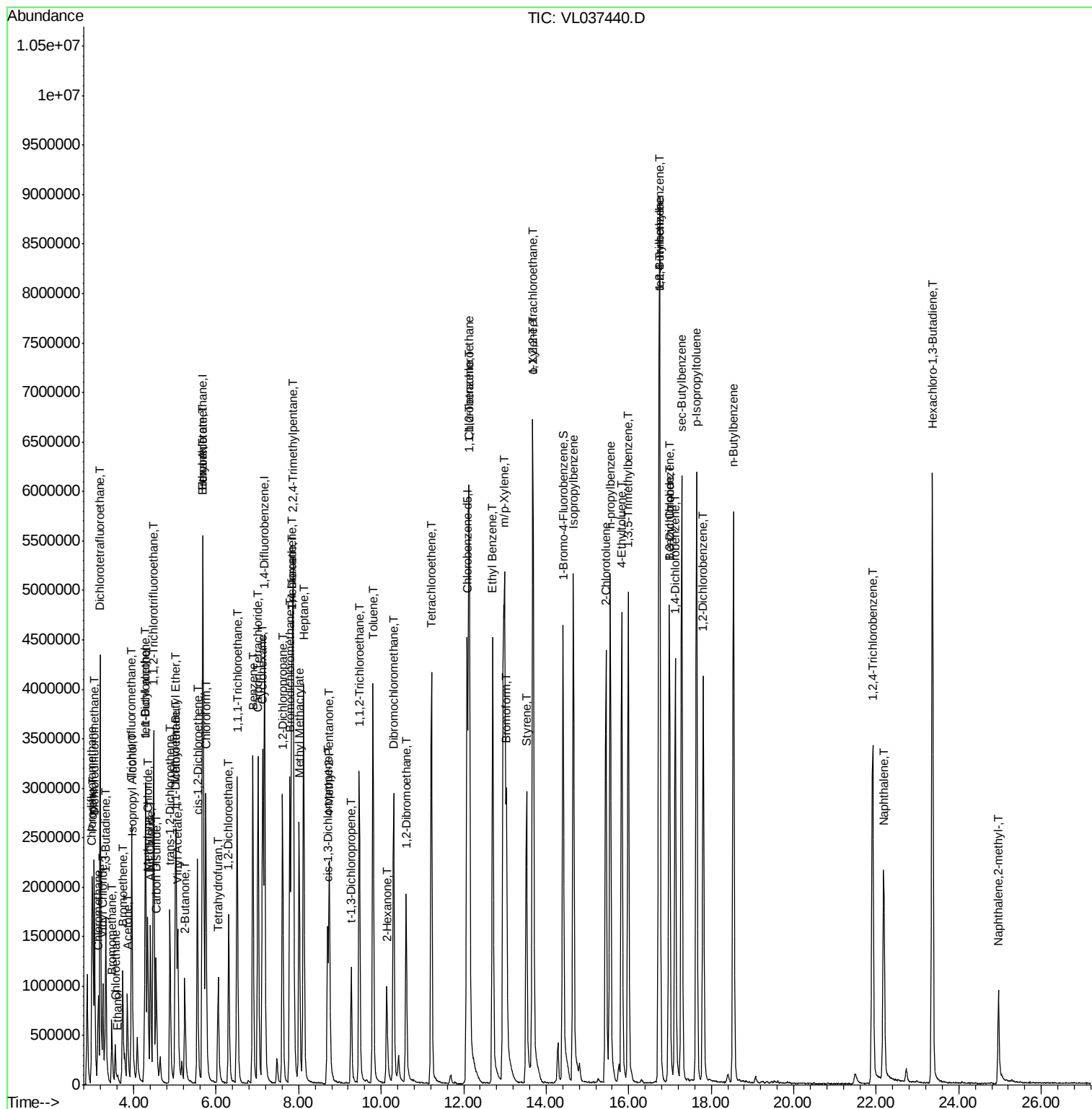
Quant Time: Aug 13 09:19:02 2021

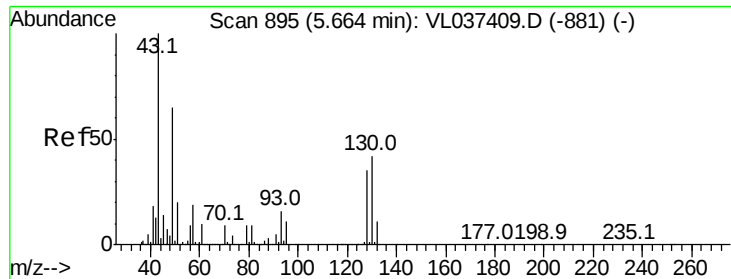
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL081221AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Aug 12 15:26:13 2021

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

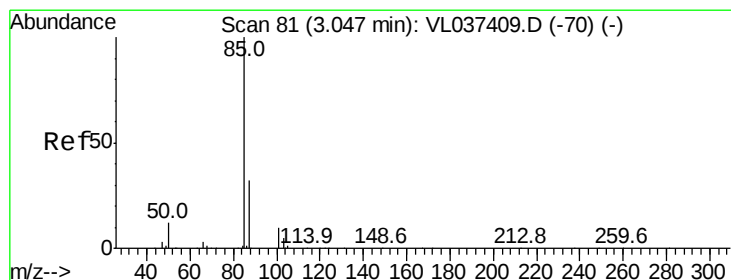
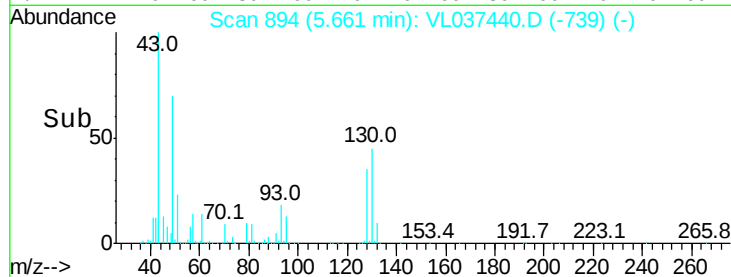
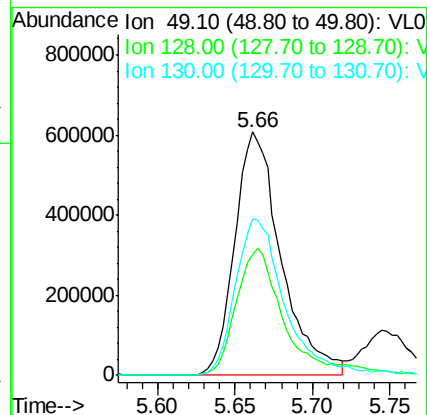
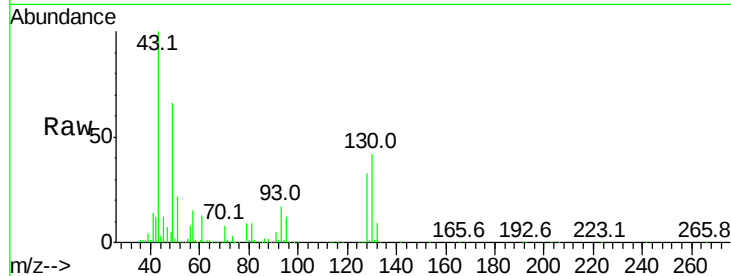
Tgt Ion: 49 Resp: 1259289

Ion Ratio Lower Upper

49 100

128 55.6 27.9 83.6

130 70.3 34.6 103.8



#2

Dichlorodifluoromethane

Concen: 10.330 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL037440.D

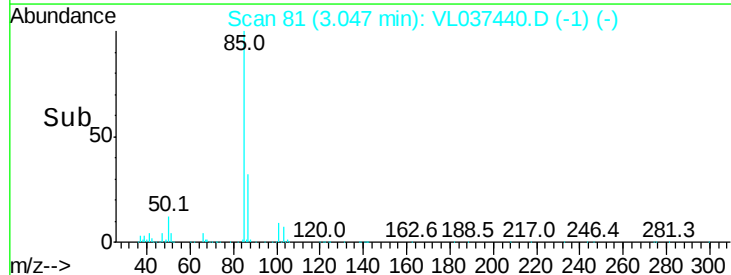
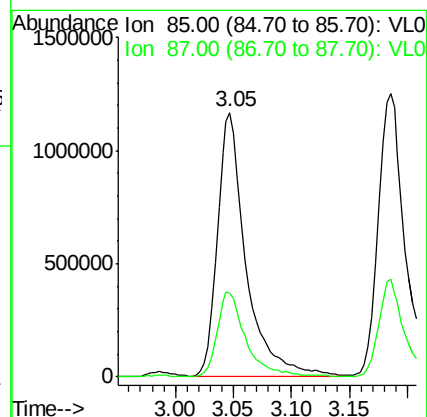
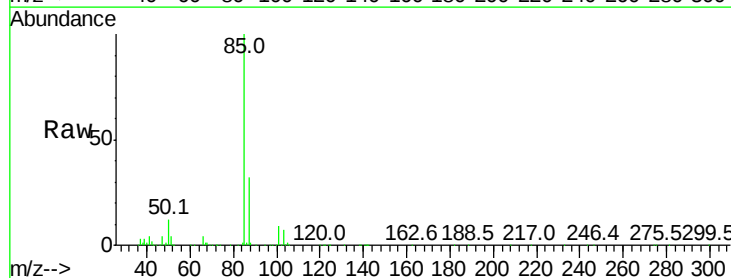
Acq: 13 Aug 2021 8:48

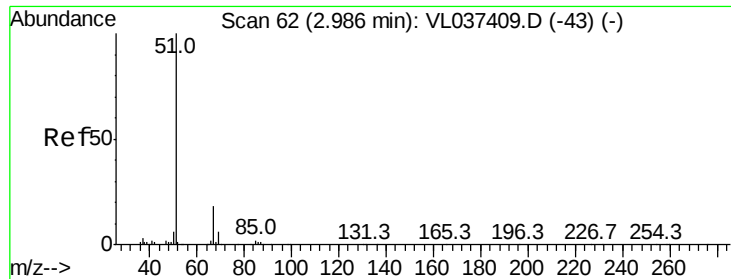
Tgt Ion: 85 Resp: 1987523

Ion Ratio Lower Upper

85 100

87 31.8 25.7 38.5





#3

Chlorodifluoromethane

Concen: 9.461 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

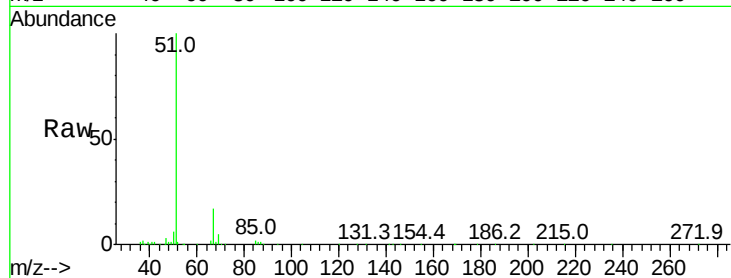
VSTDCCC010EC

Tgt Ion: 51 Resp: 2339641

Ion Ratio Lower Upper

51 100

67 18.2 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

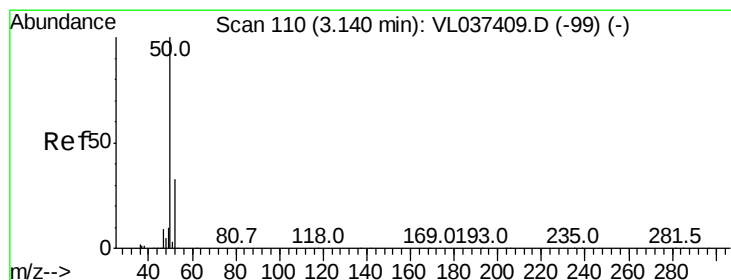
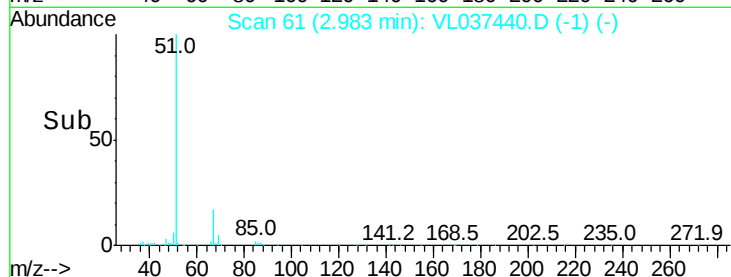
1500000

1000000

500000

0

Time--> 2.80 2.90 3.00 3.10



#4

Chloromethane

Concen: 9.439 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL037440.D

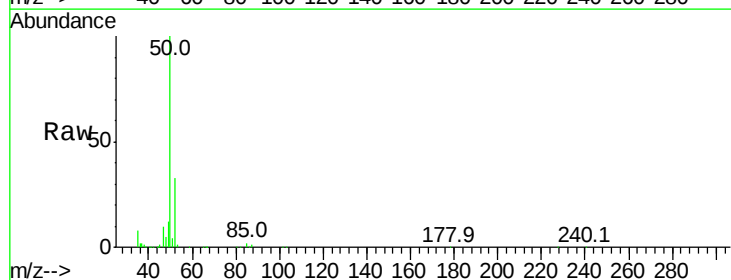
Acq: 13 Aug 2021 8:48

Tgt Ion: 50 Resp: 839020

Ion Ratio Lower Upper

50 100

52 33.4 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

500000

400000

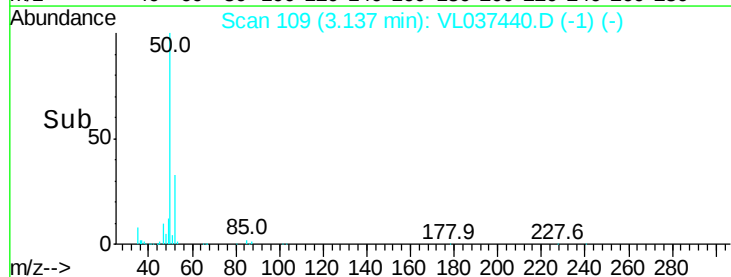
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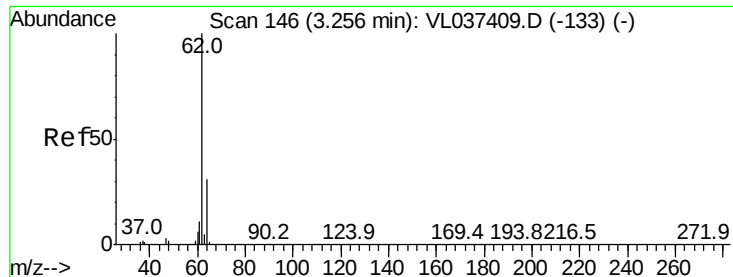
200000

100000

0

Time--> 3.10 3.15





#5

Vinyl Chloride

Concen: 9.869 ppbv

RT: 3.26 min Scan# 146

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

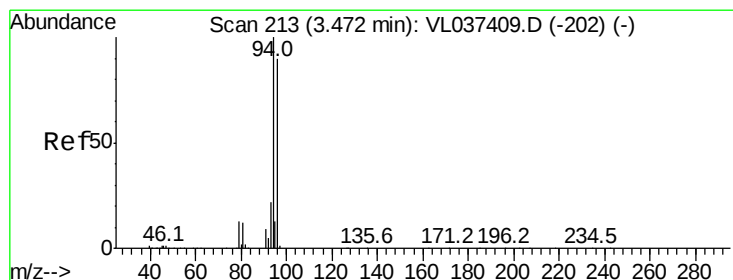
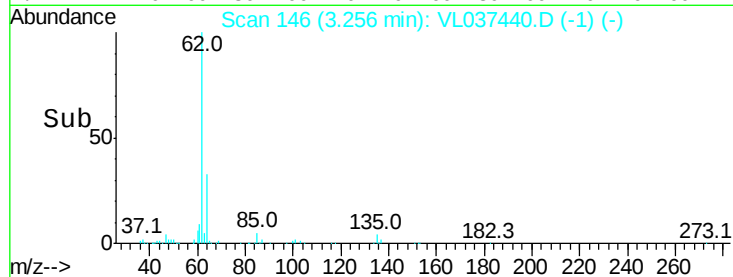
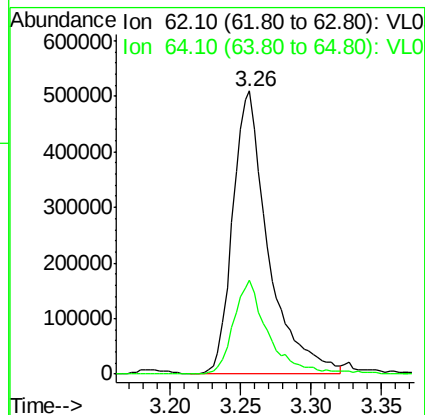
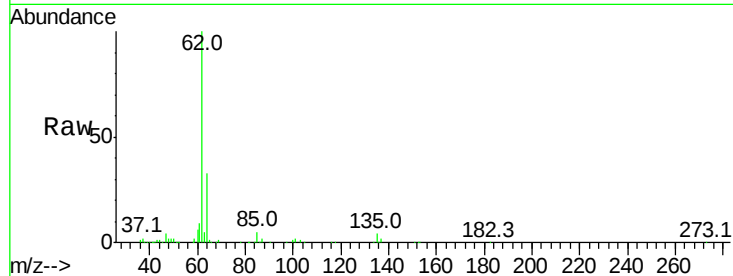
VSTDCCC010EC

Tgt Ion: 62 Resp: 896175

Ion Ratio Lower Upper

62 100

64 33.4 25.0 37.6



#6

Bromomethane

Concen: 8.547 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL037440.D

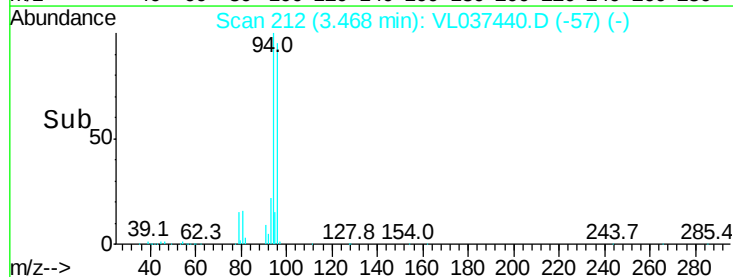
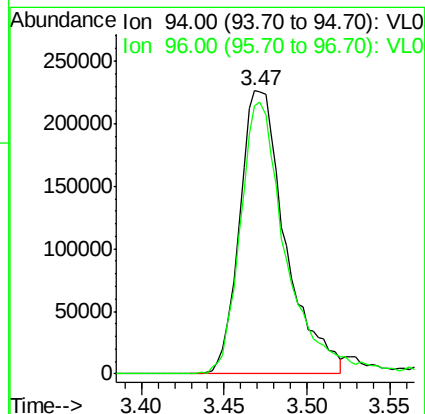
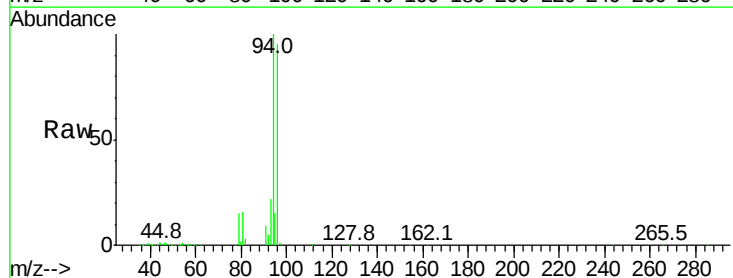
Acq: 13 Aug 2021 8:48

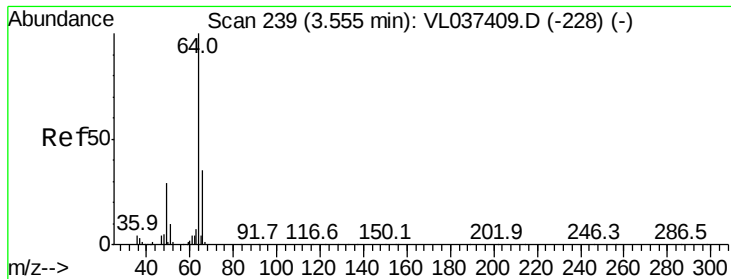
Tgt Ion: 94 Resp: 434121

Ion Ratio Lower Upper

94 100

96 94.6 72.2 108.4





#7

Chloroethane

Concen: 9.583 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

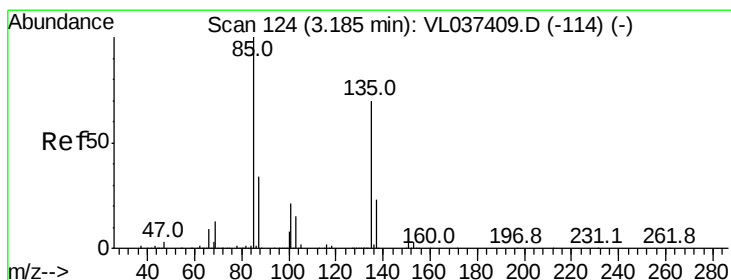
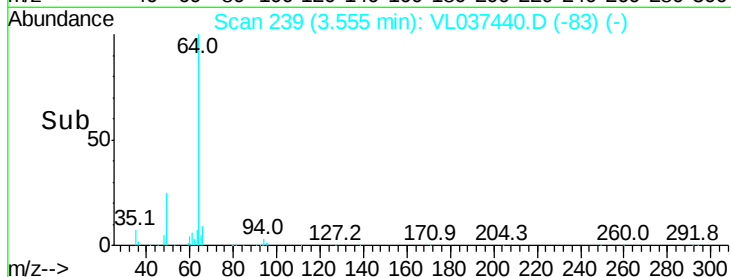
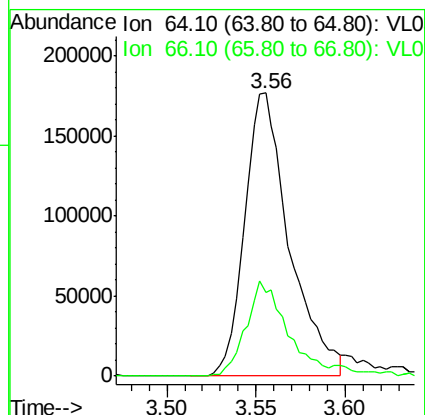
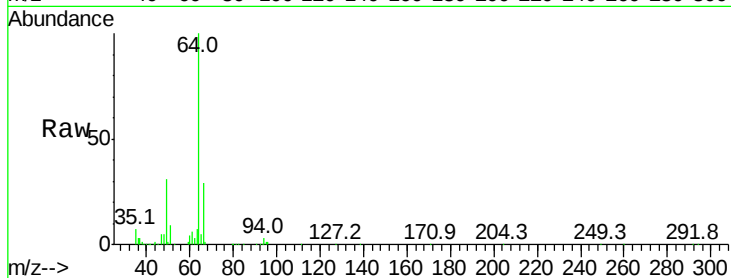
VSTDCCC010EC

Tgt Ion: 64 Resp: 309888

Ion Ratio Lower Upper

64 100

66 29.5 27.8 41.8



#8

Dichlorotetrafluoroethane

Concen: 9.776 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL037440.D

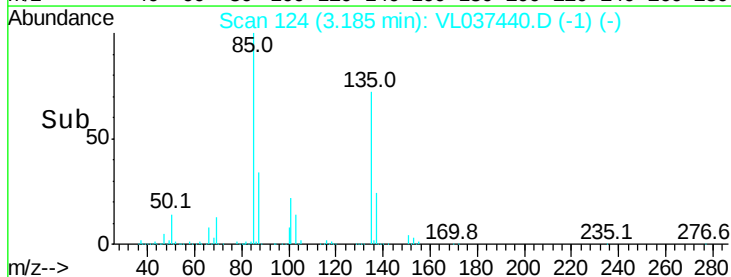
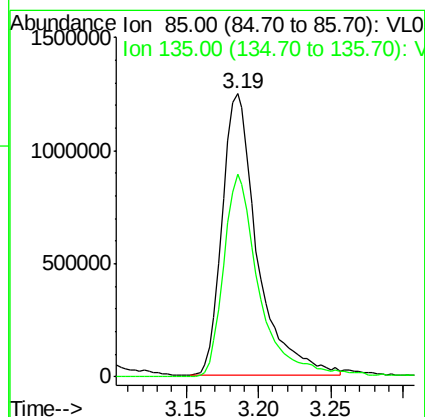
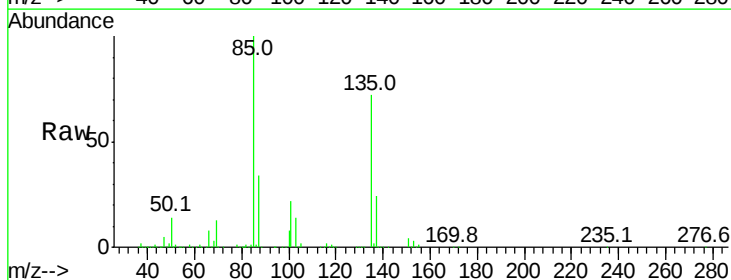
Acq: 13 Aug 2021 8:48

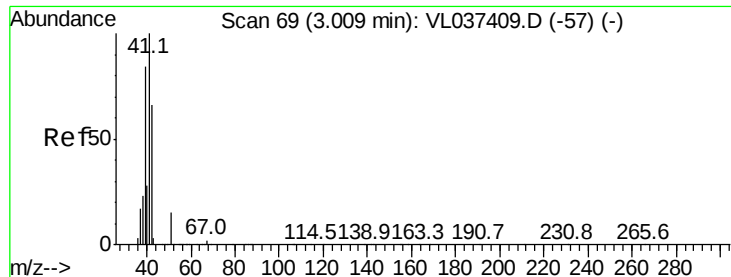
Tgt Ion: 85 Resp: 2099146

Ion Ratio Lower Upper

85 100

135 74.0 58.6 88.0





#9

Propene

Concen: 9.667 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

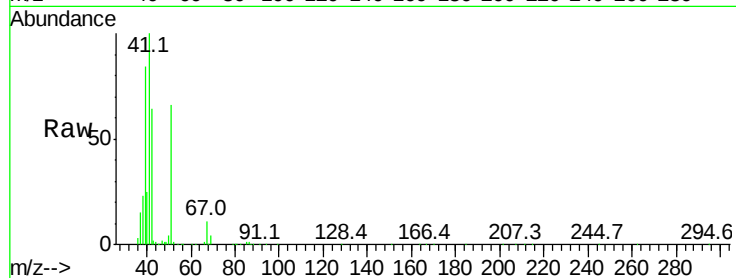
VSTDCCC010EC

Tgt Ion: 41 Resp: 802721

Ion Ratio Lower Upper

41 100

42 66.3 53.8 80.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.01

500000

400000

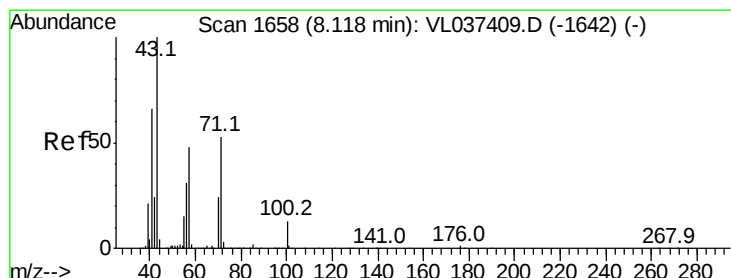
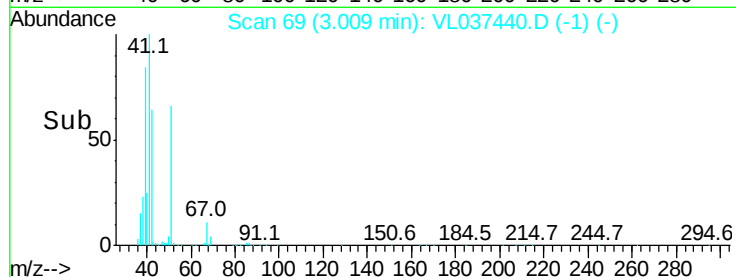
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200000

100000

0

Time-->



#10

Heptane

Concen: 10.056 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL037440.D

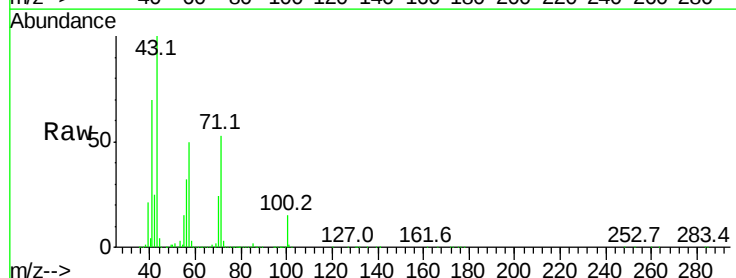
Acq: 13 Aug 2021 8:48

Tgt Ion: 43 Resp: 2030616

Ion Ratio Lower Upper

43 100

57 50.7 40.3 60.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.12

1000000

800000

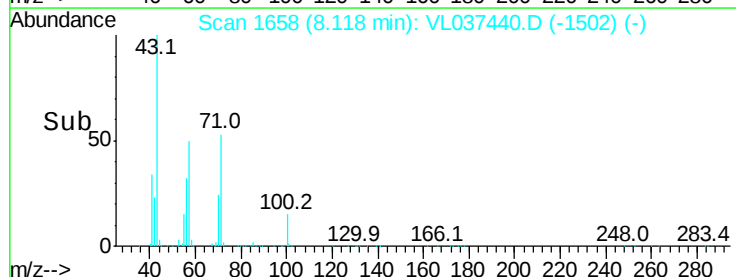
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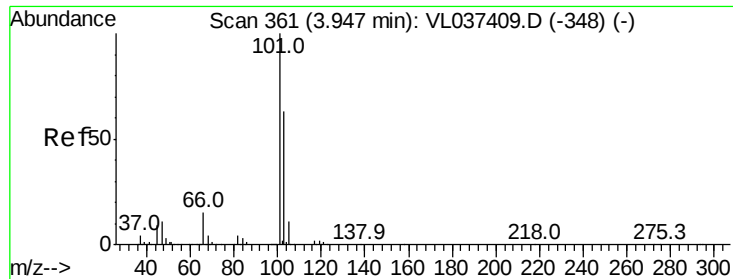
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200000

0

Time-->

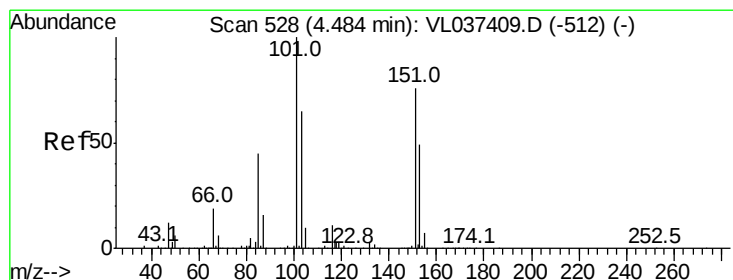
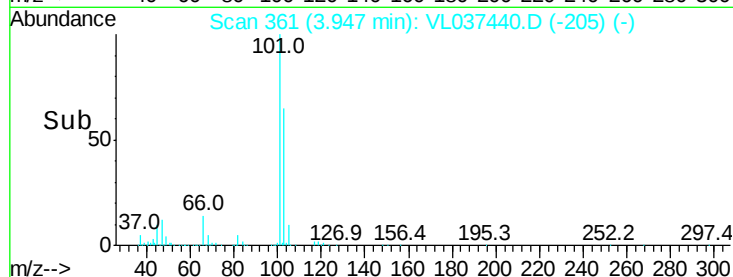
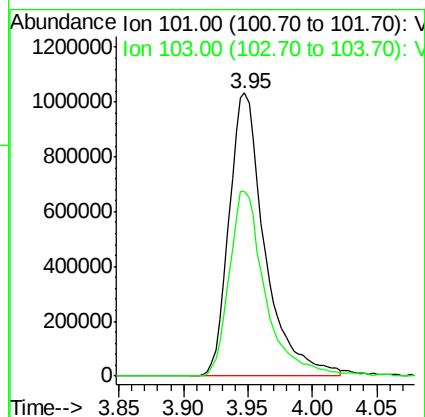
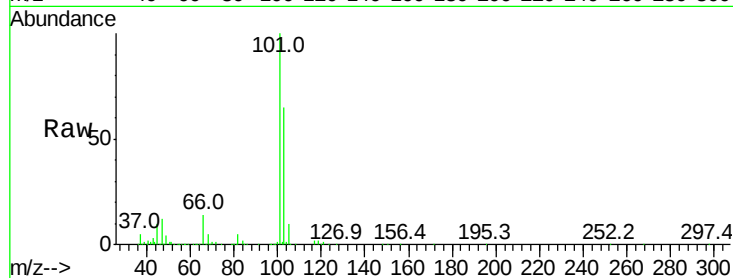




#11
 Trichlorofluoromethane
 Concen: 9.573 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

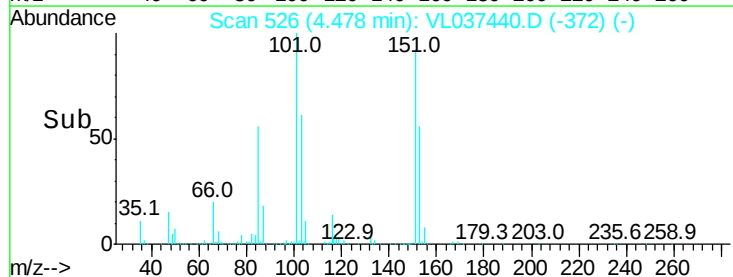
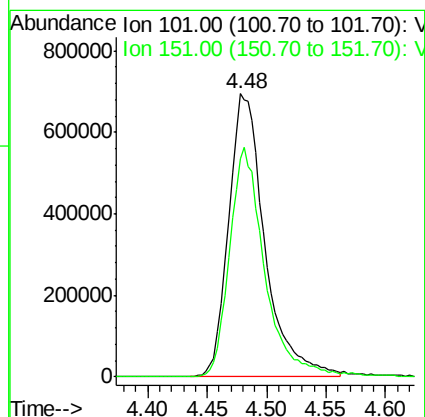
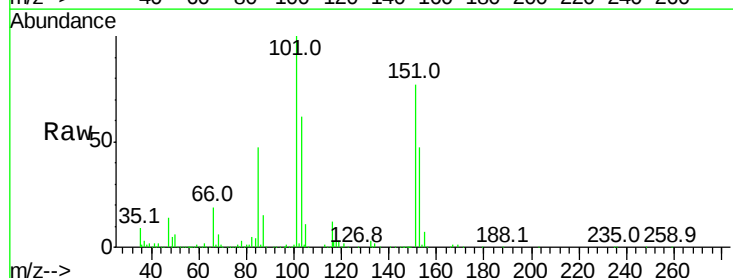
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

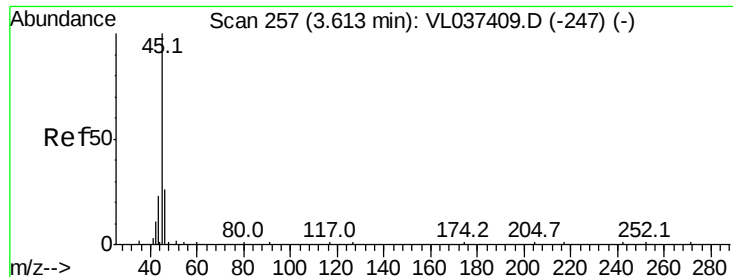
Tgt Ion:101 Resp: 1992846
 Ion Ratio Lower Upper
 101 100
 103 65.2 50.2 75.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.049 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.01 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

Tgt Ion:101 Resp: 1465607
 Ion Ratio Lower Upper
 101 100
 151 79.3 61.2 91.8





#13

Ethanol

Concen: 5.015 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

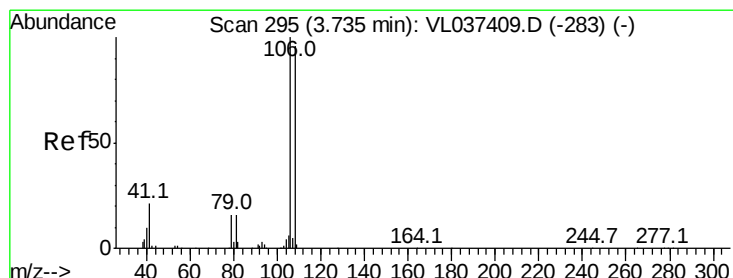
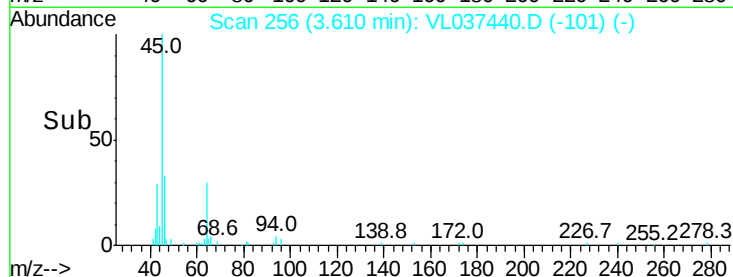
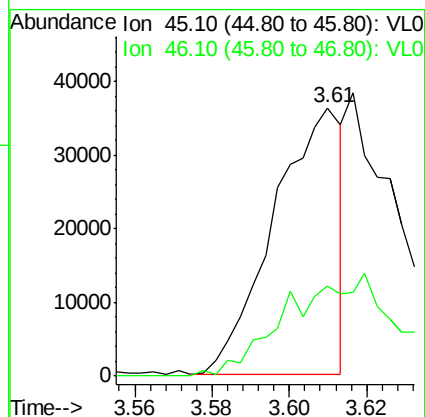
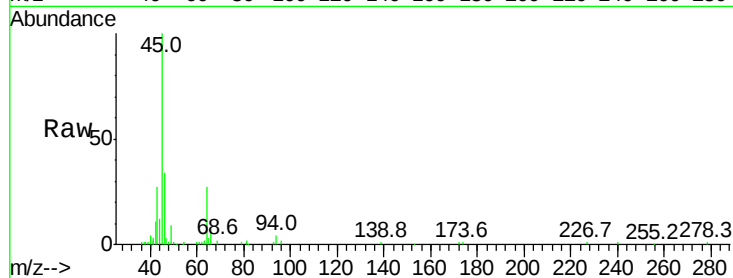
VSTDCCC010EC

Tgt Ion: 45 Resp: 44444

Ion Ratio Lower Upper

45 100

46 0.0 18.0 72.2#



#14

Bromoethene

Concen: 10.127 ppbv

RT: 3.74 min Scan# 296

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

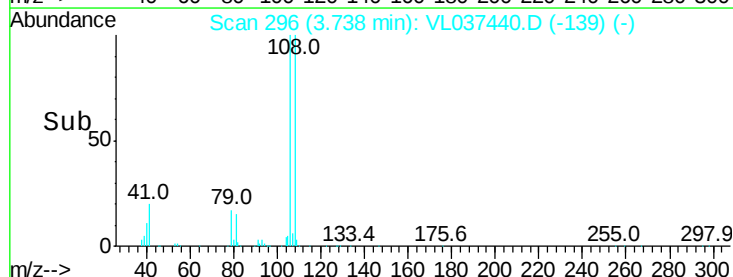
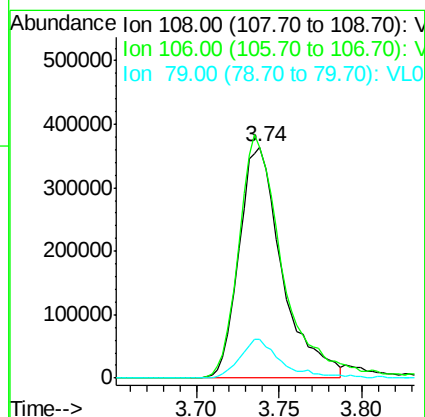
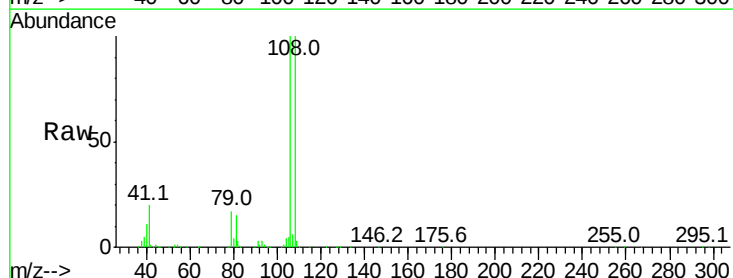
Tgt Ion: 108 Resp: 656909

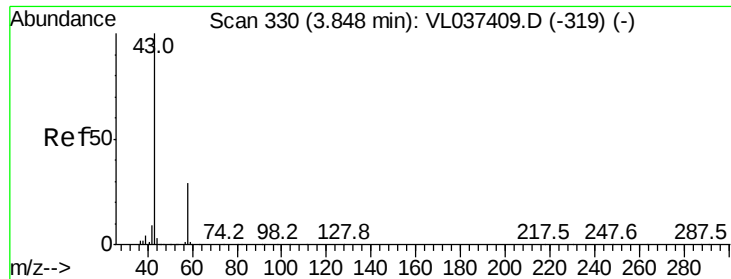
Ion Ratio Lower Upper

108 100

106 110.6 87.5 131.3

79 16.9 13.5 20.3

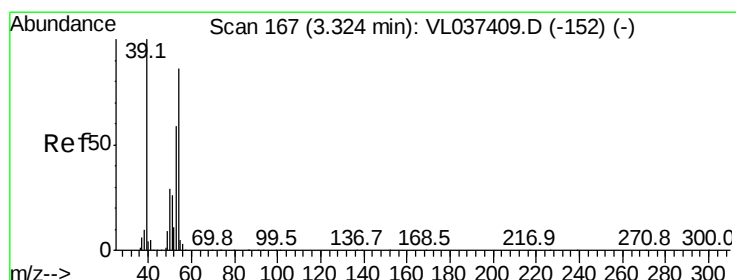
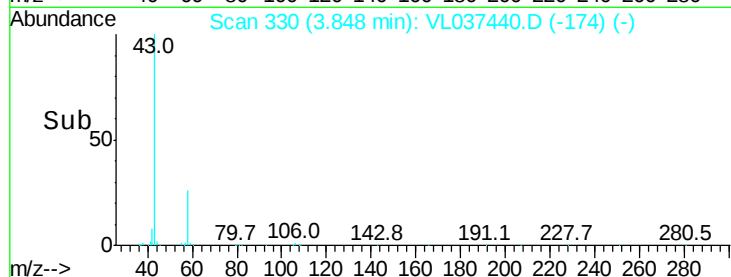
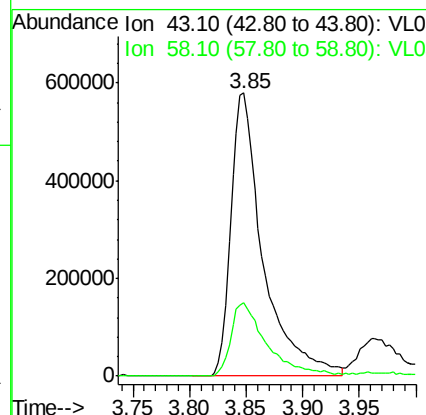
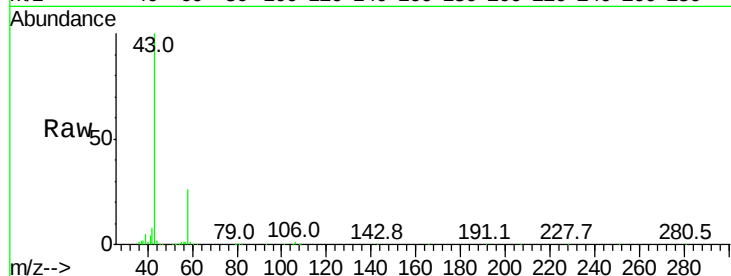




#15
Acetone
Concen: 8.625 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

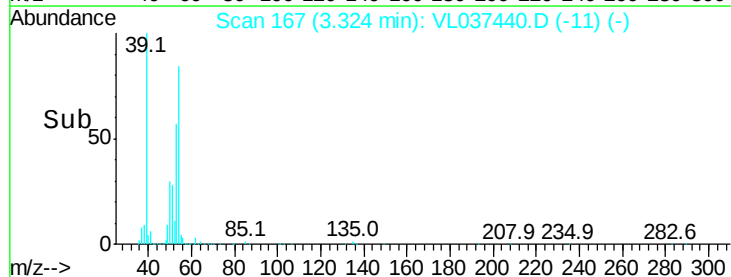
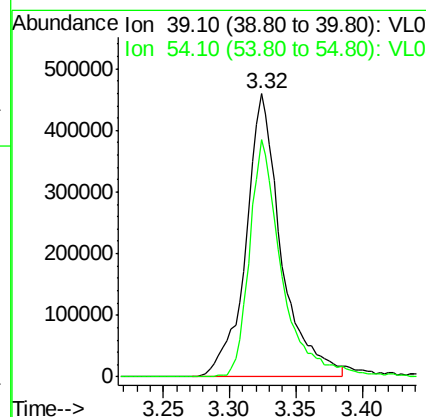
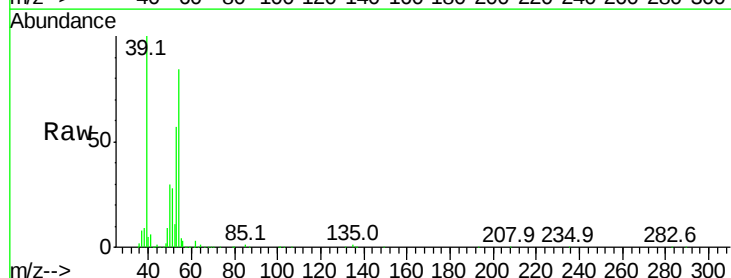
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

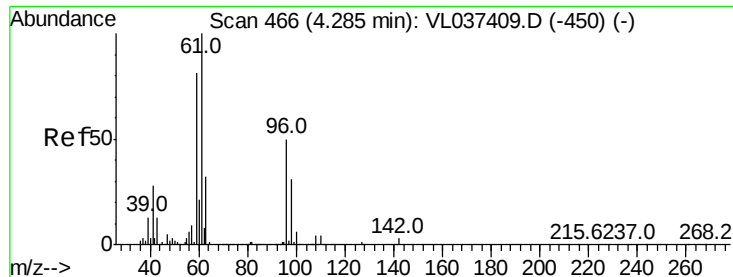
Tgt Ion: 43 Resp: 1151919
Ion Ratio Lower Upper
43 100
58 29.0 24.4 36.6



#16
1,3-Butadiene
Concen: 9.525 ppbv
RT: 3.32 min Scan# 167
Delta R.T. 0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

Tgt Ion: 39 Resp: 853745
Ion Ratio Lower Upper
39 100
54 77.4 61.4 92.0





#17

tert-Butyl alcohol

Concen: 9.275 ppbv

RT: 4.29 min Scan# 466

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

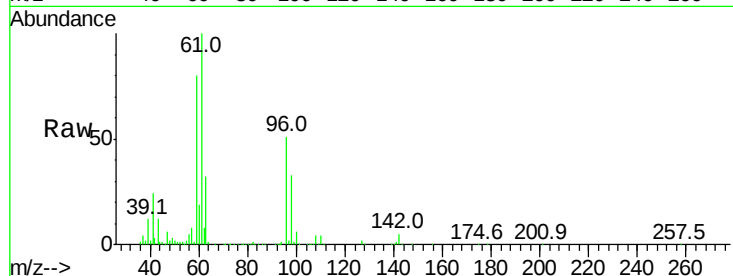
VSTDCCC010EC

Tgt Ion: 59 Resp: 1182374

Ion Ratio Lower Upper

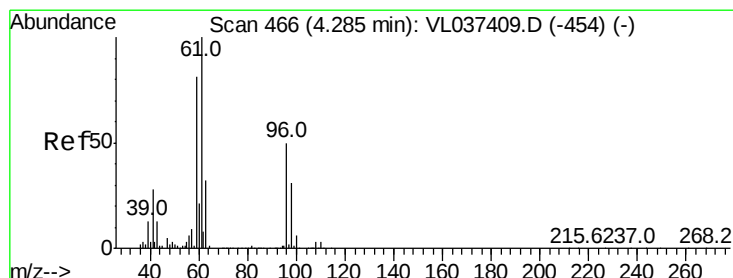
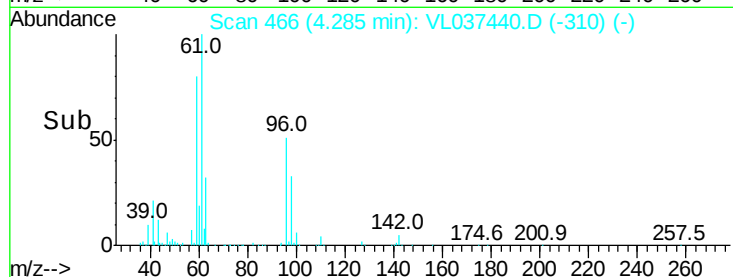
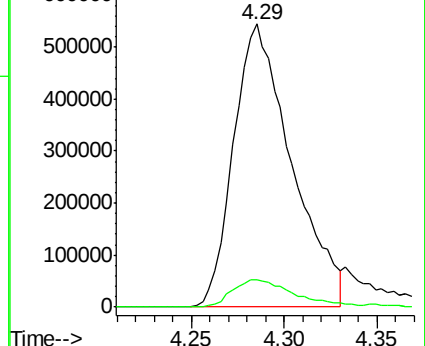
59 100

57 11.6 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.513 ppbv

RT: 4.29 min Scan# 466

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

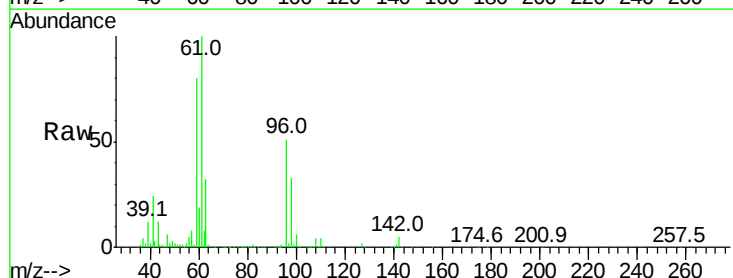
Tgt Ion: 96 Resp: 644143

Ion Ratio Lower Upper

96 100

61 195.0 159.0 238.4

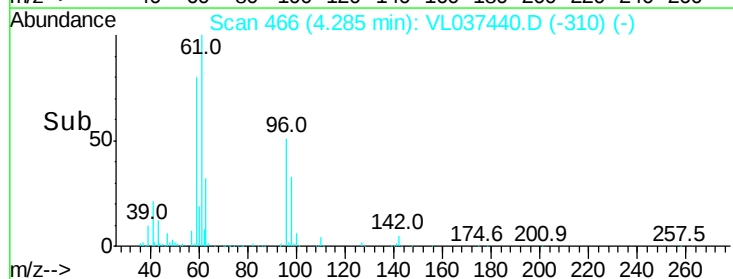
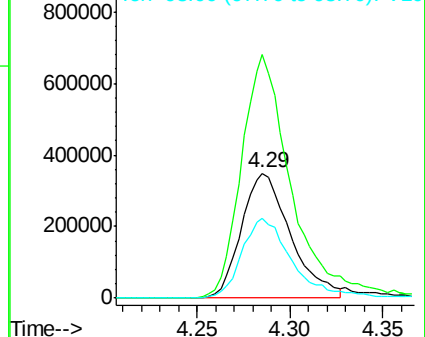
98 64.1 49.4 74.2

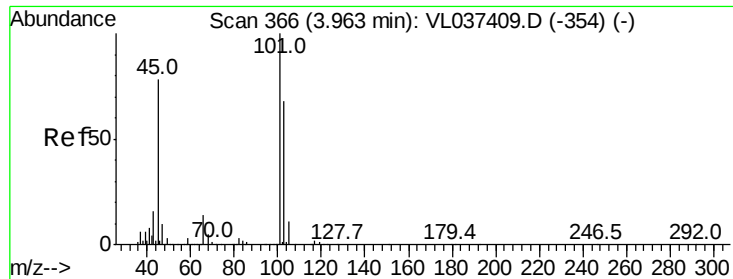


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 8.727 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

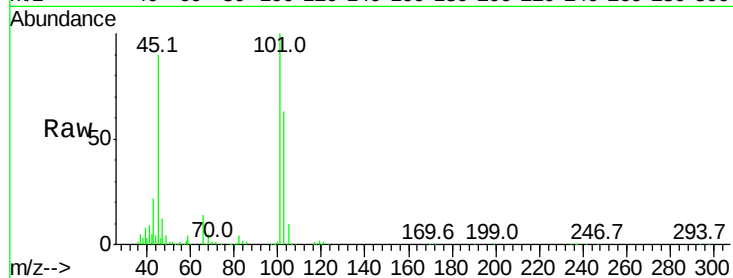
VSTDCCC010EC

Tgt Ion: 45 Resp: 678273

Ion Ratio Lower Upper

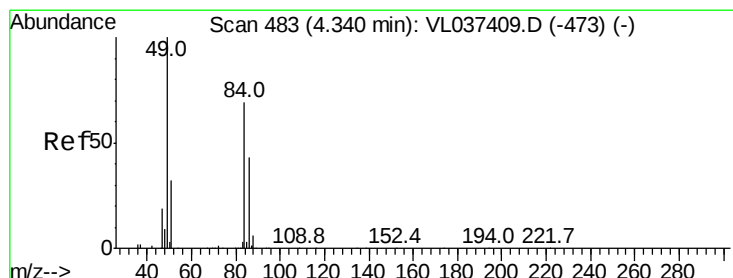
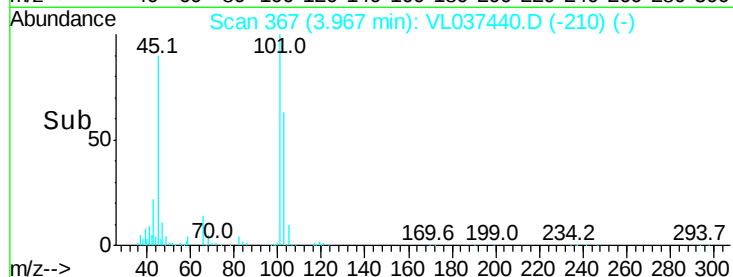
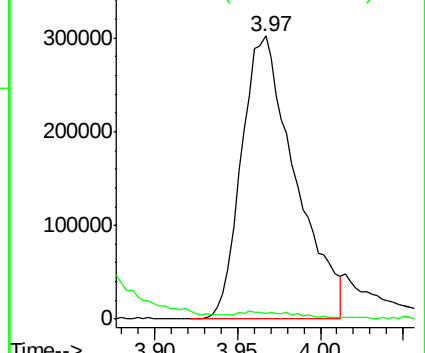
45 100

58 3.3 2.2 3.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.737 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Tgt Ion: 84 Resp: 616960

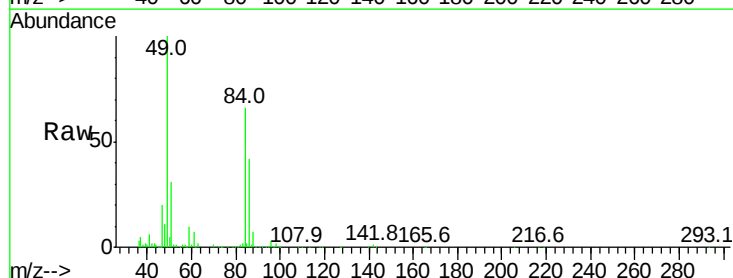
Ion Ratio Lower Upper

84 100

49 149.7 116.0 174.0

51 44.8 37.1 55.7

86 63.5 49.4 74.0

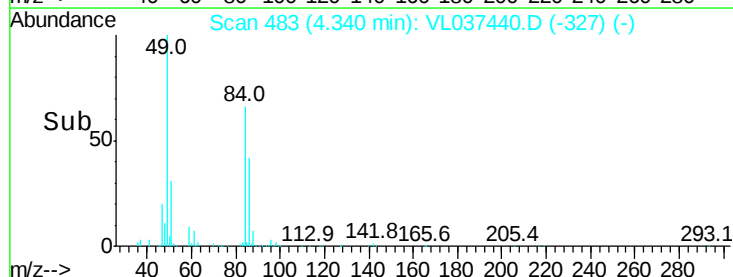
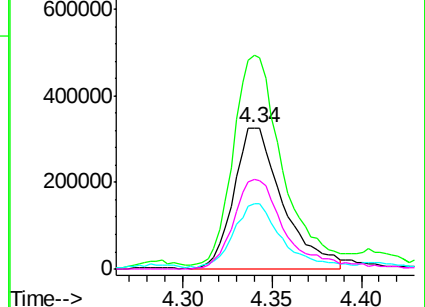


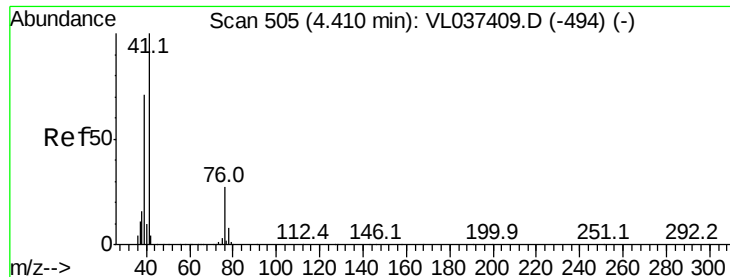
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

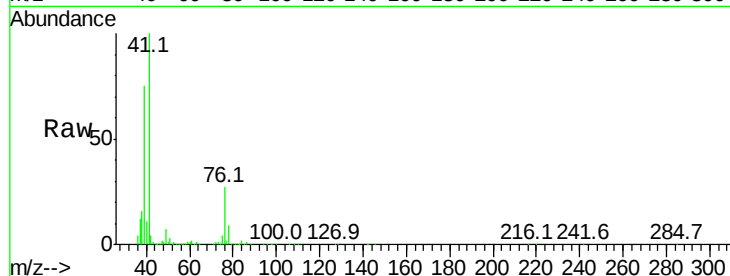




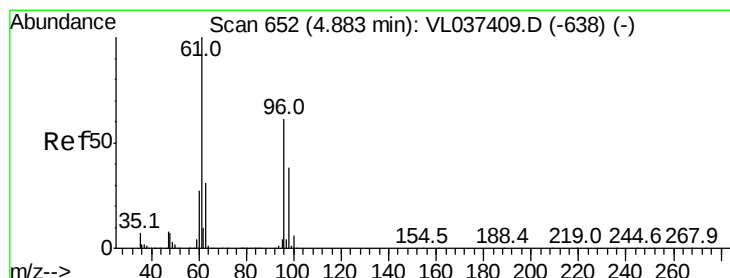
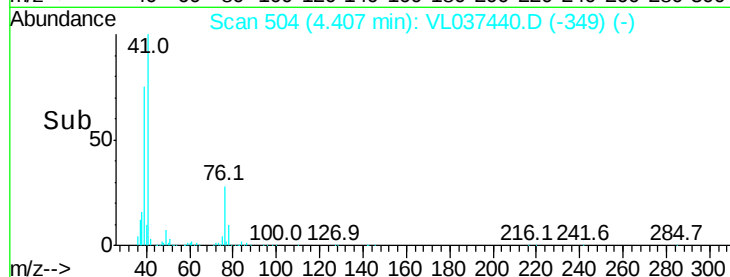
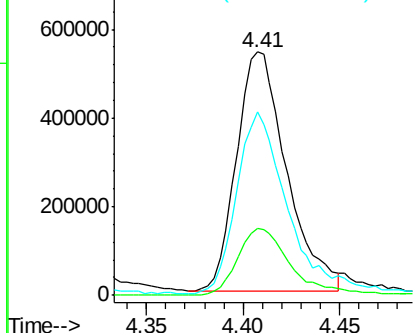
#21
 Allyl Chloride
 Concen: 9.278 ppbv
 RT: 4.41 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 41 Resp: 970936
 Ion Ratio Lower Upper
 41 100
 76 30.2 23.7 35.5
 39 80.0 62.3 93.5

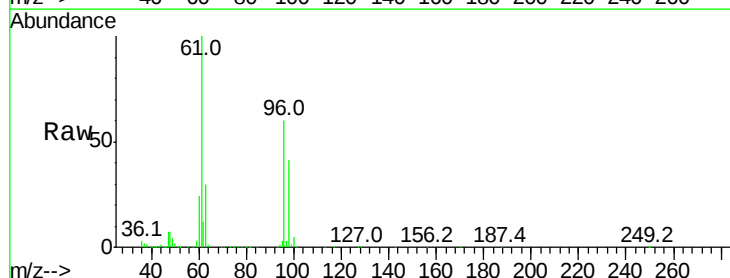


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

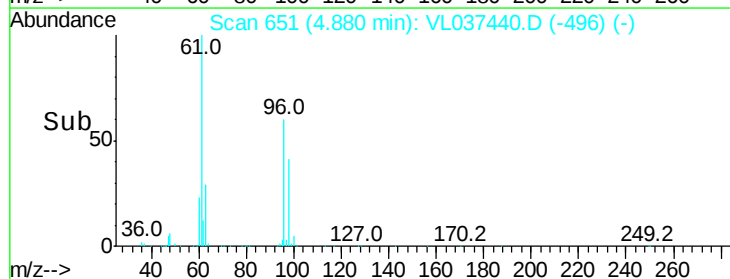
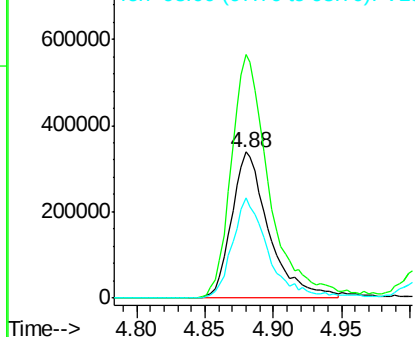


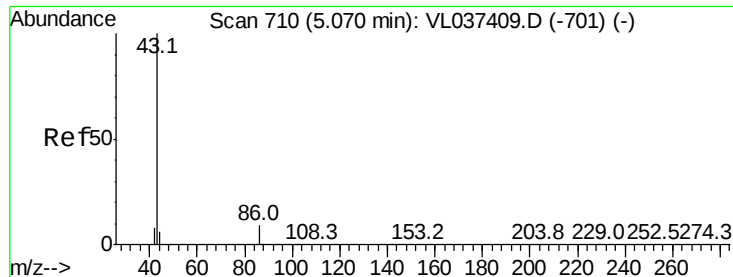
#22
 trans-1,2-Dichloroethene
 Concen: 10.135 ppbv
 RT: 4.88 min Scan# 651
 Delta R.T. -0.00 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

Tgt Ion: 96 Resp: 643685
 Ion Ratio Lower Upper
 96 100
 61 167.0 131.0 196.4
 98 68.9 50.2 75.4



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





#23

Vinyl Acetate

Concen: 10.216 ppbv

RT: 5.07 min Scan# 710

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2093485

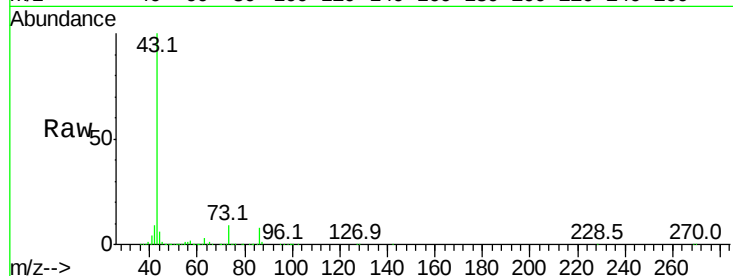
Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.8	8.8
42	9.1	7.7	11.5
44	5.5	4.0	6.0

43 100

86 7.9 5.8 8.8

42 9.1 7.7 11.5

44 5.5 4.0 6.0

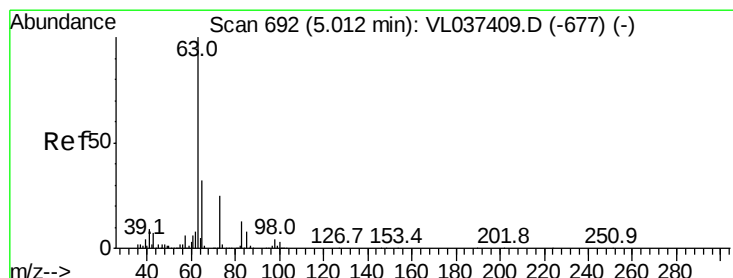
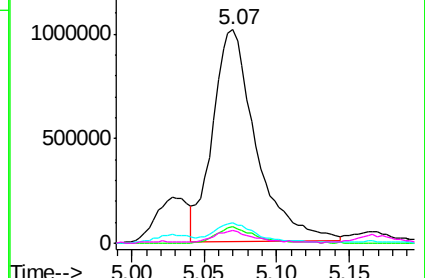
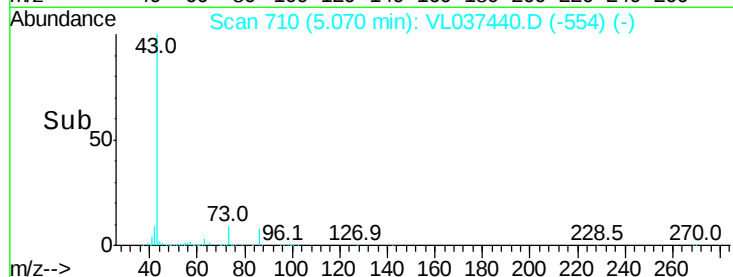


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.469 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

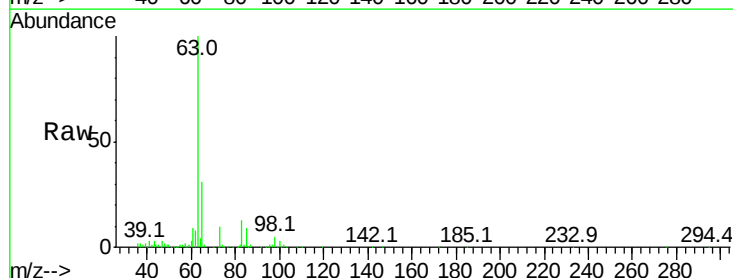
Tgt Ion: 63 Resp: 1666287

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.3
100	3.0	1.6	4.7

63 100

98 4.3 2.1 6.3

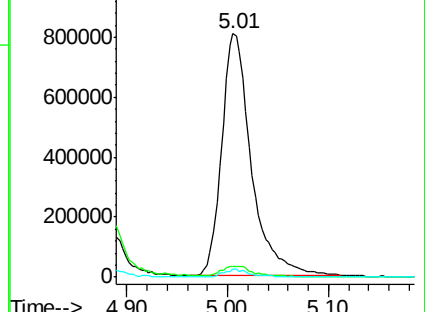
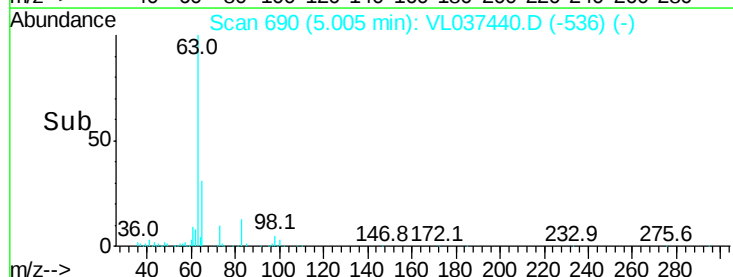
100 3.0 1.6 4.7

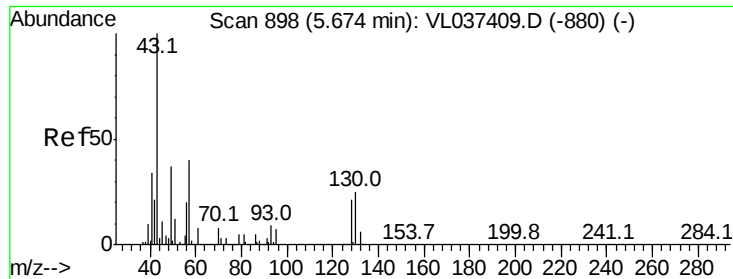


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

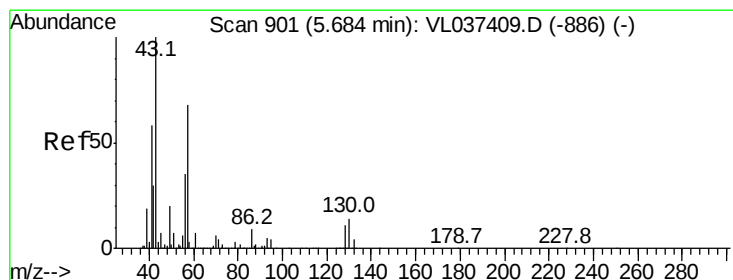
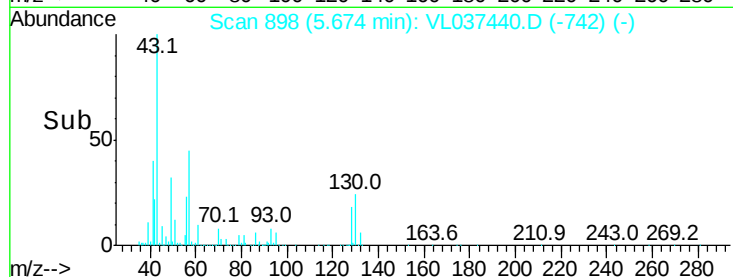
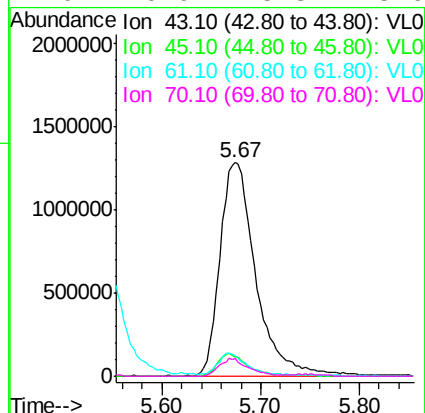
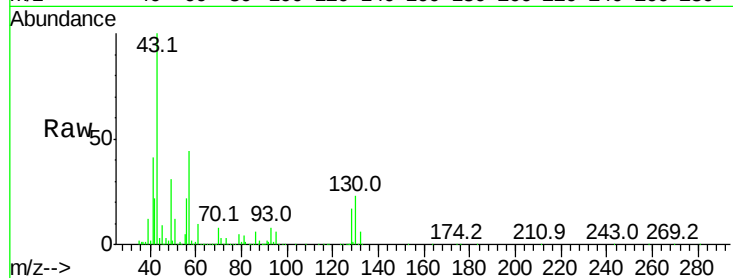




#25
Ethyl Acetate
Concen: 10.145 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

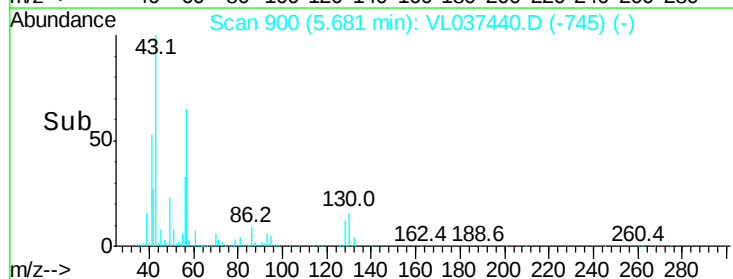
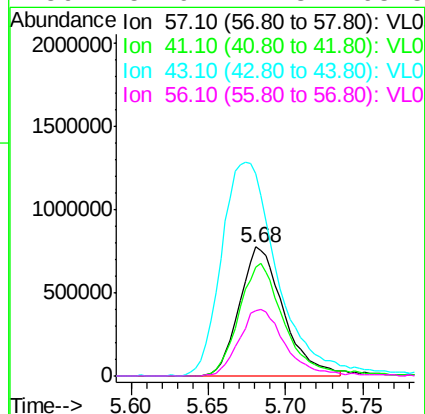
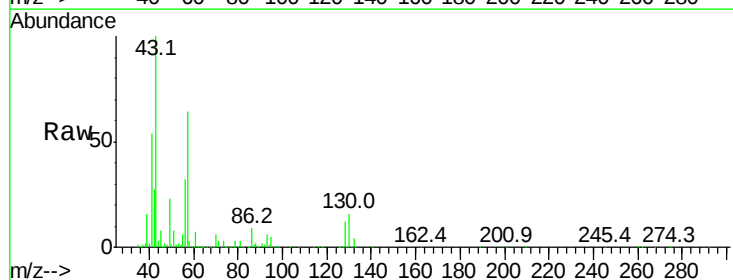
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

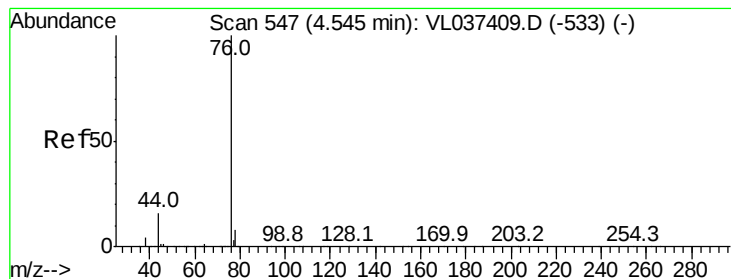
Tgt Ion:	43	Resp:	3228995
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.9	11.9
61	9.1	7.7	11.5
70	6.9	5.8	8.6



#26
Hexane
Concen: 9.330 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

Tgt Ion:	57	Resp:	1532461
Ion	Ratio	Lower	Upper
57	100		
41	92.0	72.5	108.7
43	213.0	169.3	253.9
56	54.9	42.3	63.5





#27

Carbon Disulfide

Concen: 11.436 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

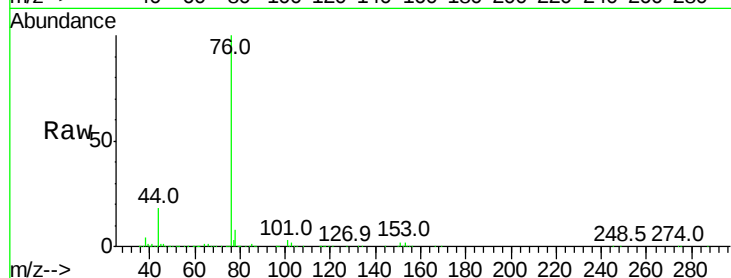
Tgt Ion: 76 Resp: 1583713

Ion Ratio Lower Upper

76 100

44 17.1 14.4 21.6

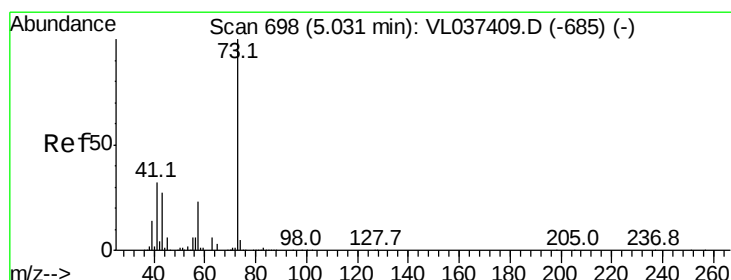
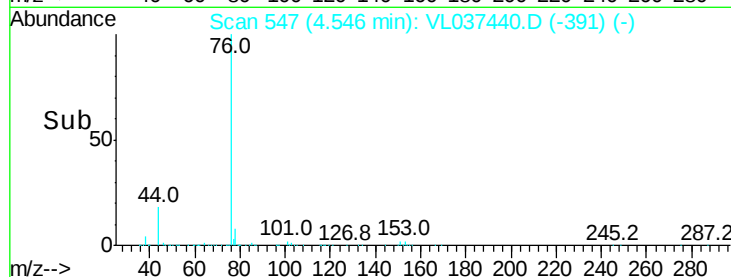
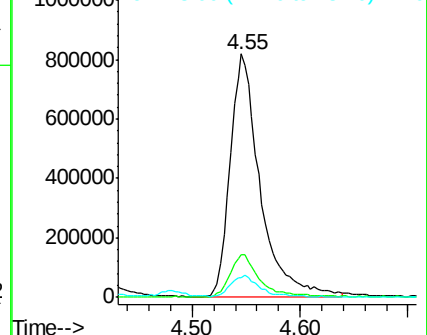
78 9.2 8.0 12.0



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.273 ppbv

RT: 5.03 min Scan# 697

Delta R.T. -0.00 min

Lab File: VL037440.D

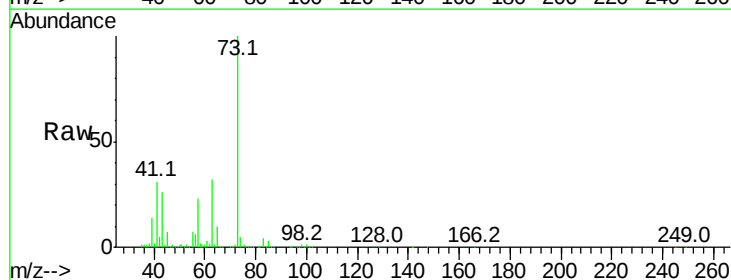
Acq: 13 Aug 2021 8:48

Tgt Ion: 73 Resp: 1805703

Ion Ratio Lower Upper

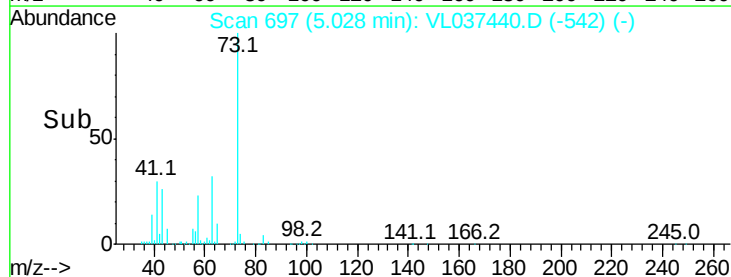
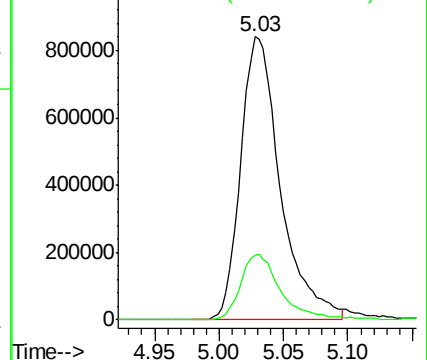
73 100

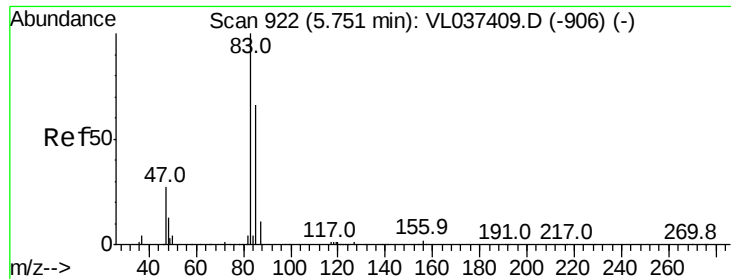
57 23.7 19.0 28.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.744 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

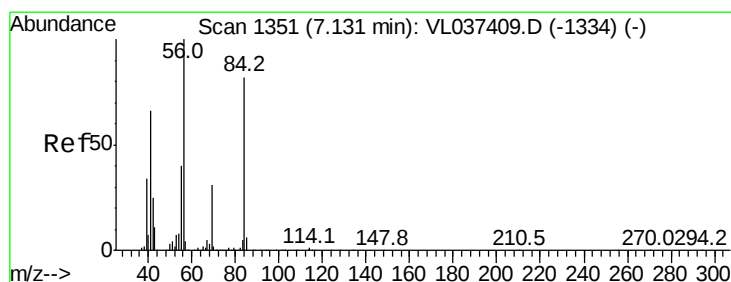
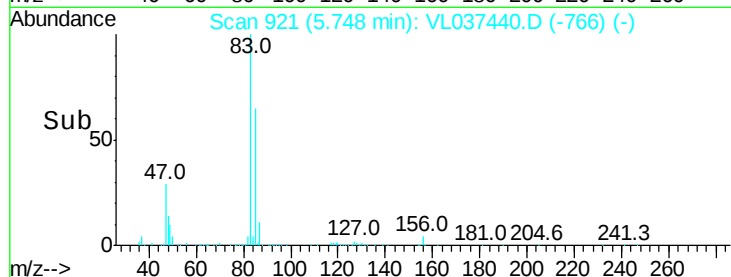
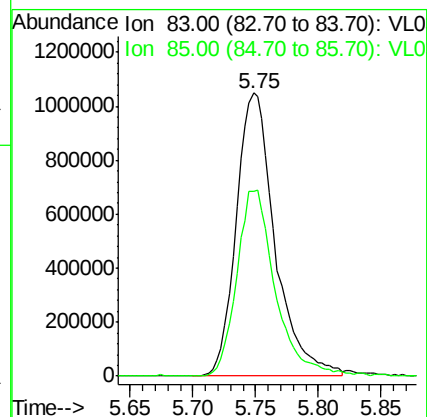
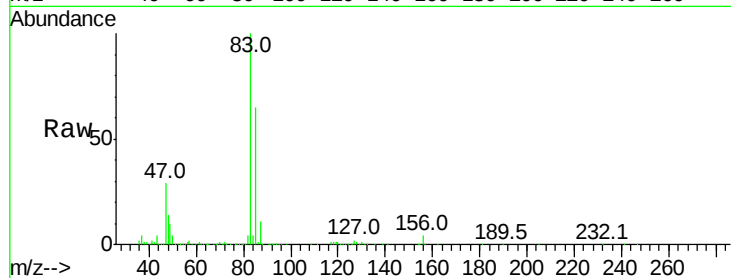
VSTDCCC010EC

Tgt Ion: 83 Resp: 2253287

Ion Ratio Lower Upper

83 100

85 65.2 52.4 78.6



#30

Cyclohexane

Concen: 9.660 ppbv

RT: 7.12 min Scan# 1349

Delta R.T. -0.01 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

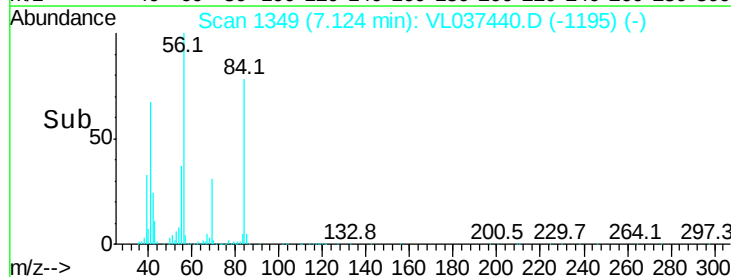
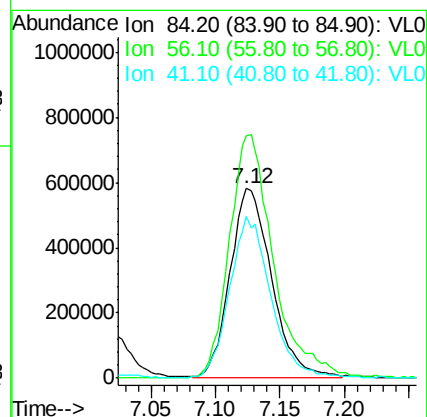
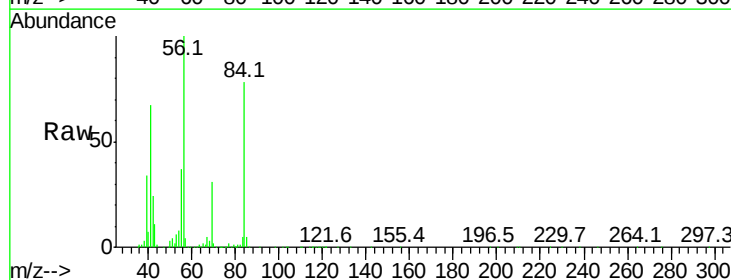
Tgt Ion: 84 Resp: 1306726

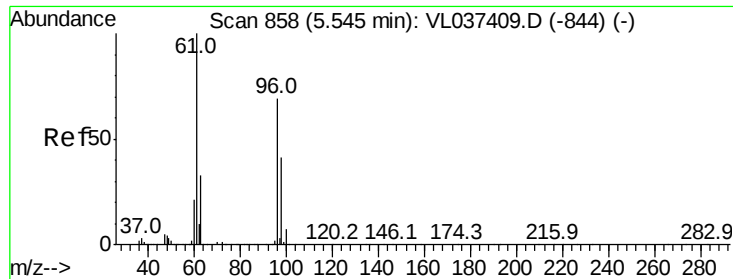
Ion Ratio Lower Upper

84 100

56 137.5 109.6 164.4

41 84.7 66.6 99.8



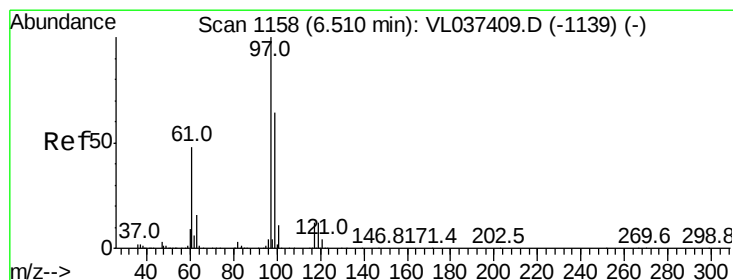
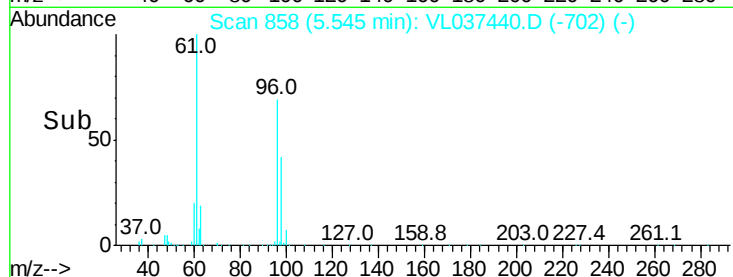
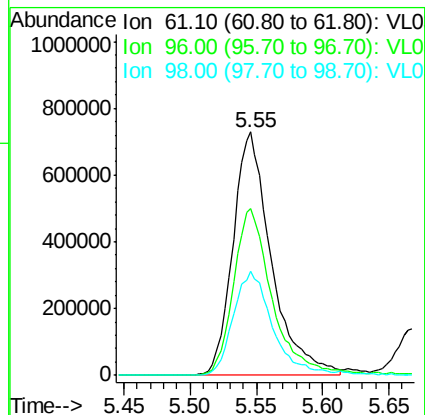
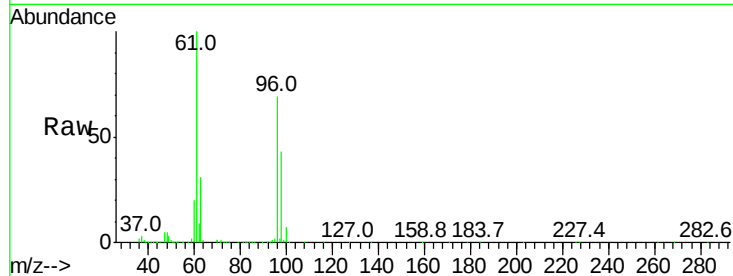


#31

cis-1,2-Dichloroethene
 Concen: 10.323 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. 0.00 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

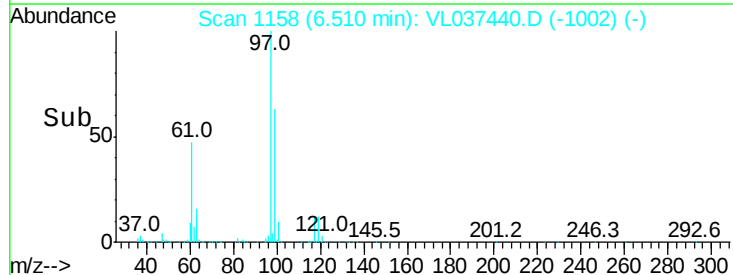
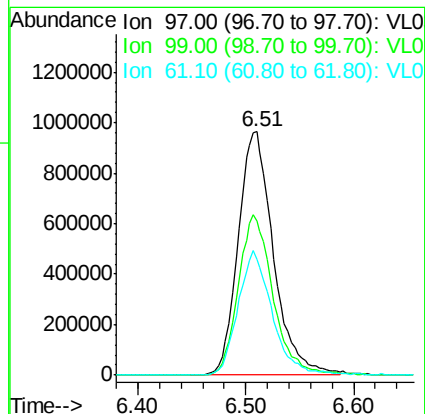
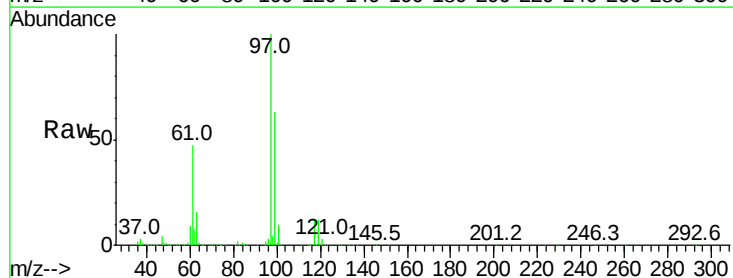
Tgt Ion: 61 Resp: 1465595
 Ion Ratio Lower Upper
 61 100
 96 68.4 55.5 83.3
 98 42.6 33.1 49.7

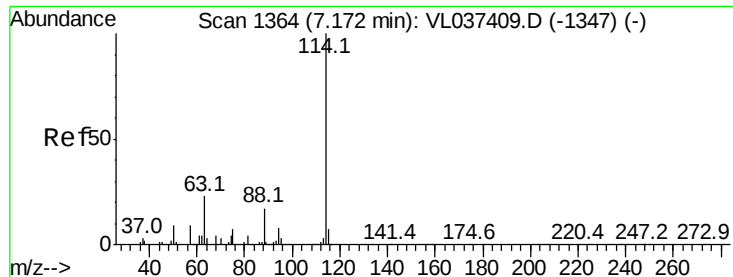


#32

1,1,1-Trichloroethane
 Concen: 9.416 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. 0.00 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

Tgt Ion: 97 Resp: 2197650
 Ion Ratio Lower Upper
 97 100
 99 65.0 52.3 78.5
 61 49.5 40.1 60.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. 0.00 min

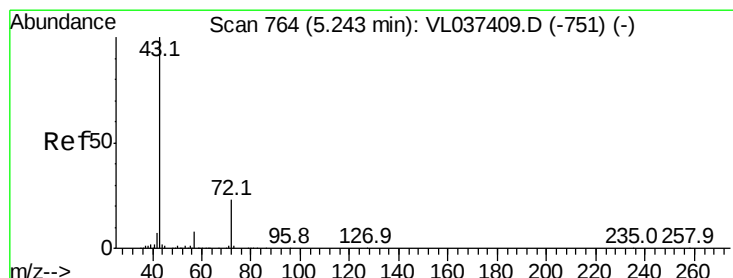
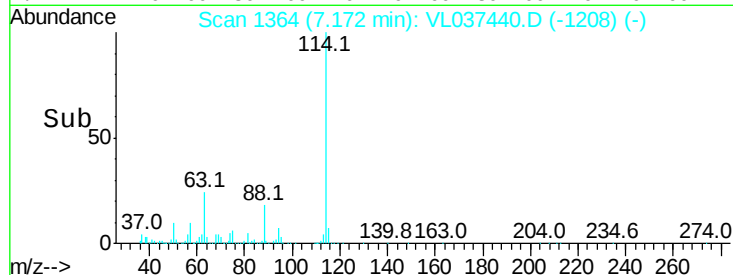
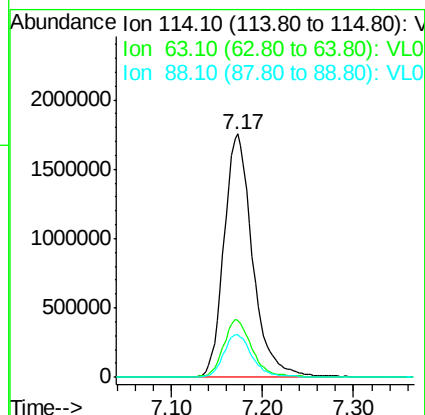
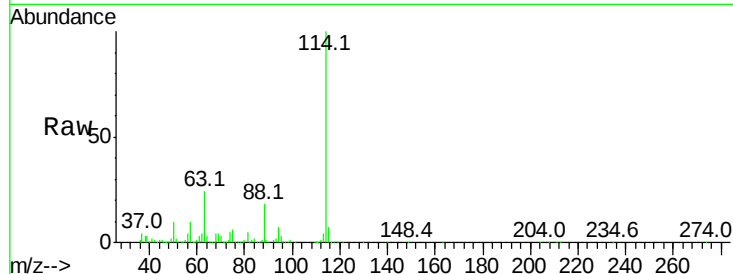
Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion:114 Resp: 3841776

Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.4	29.2
88	17.8	14.2	21.4



#34

2-Butanone

Concen: 8.642 ppbv

RT: 5.24 min Scan# 763

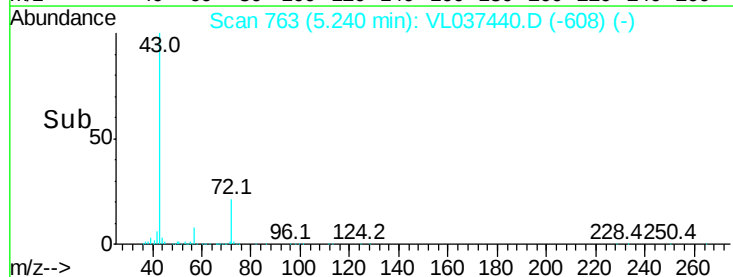
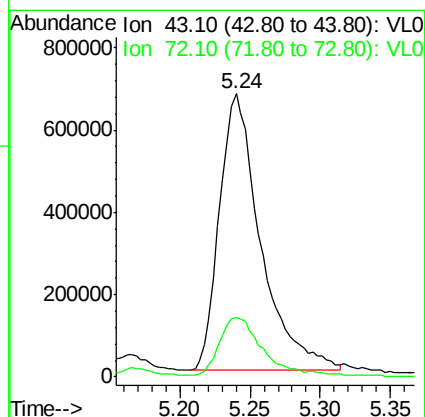
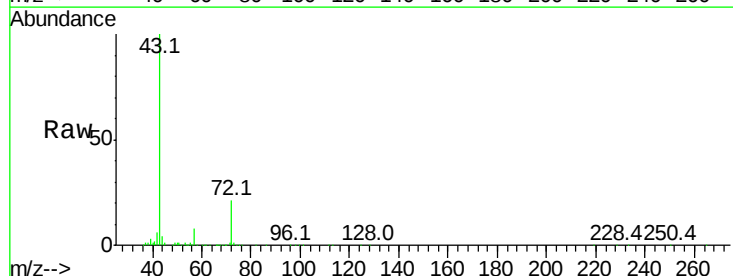
Delta R.T. -0.00 min

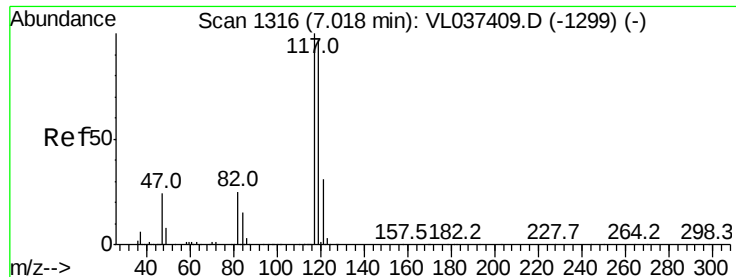
Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Tgt Ion: 43 Resp: 1370688

Ion	Ratio	Lower	Upper
43	100		
72	23.8	17.7	26.5





#35

Carbon Tetrachloride

Concen: 9.614 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

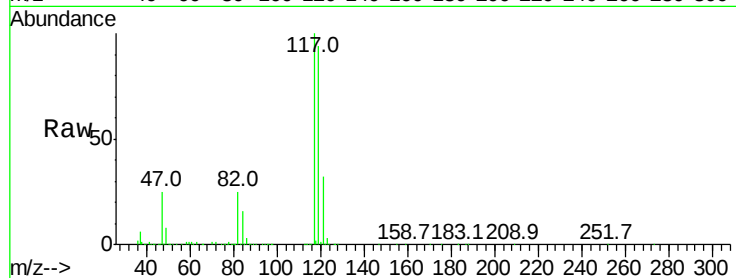
Tgt Ion: 117 Resp: 2277638

Ion Ratio Lower Upper

117 100

119 94.0 77.5 116.3

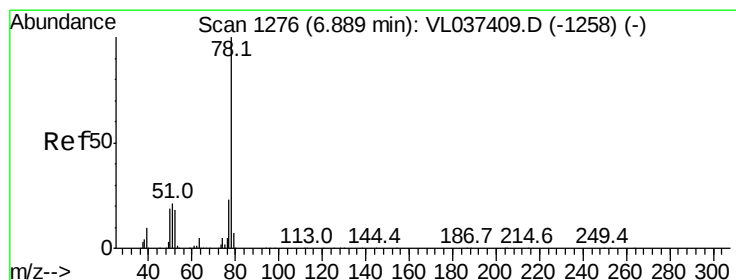
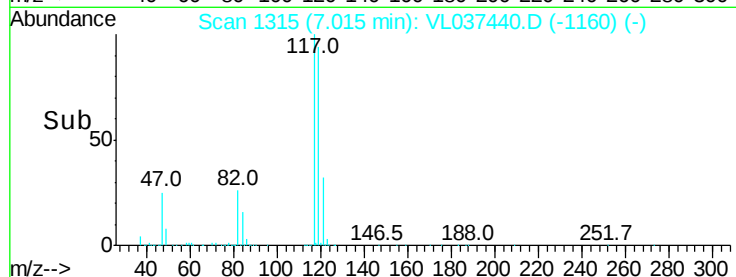
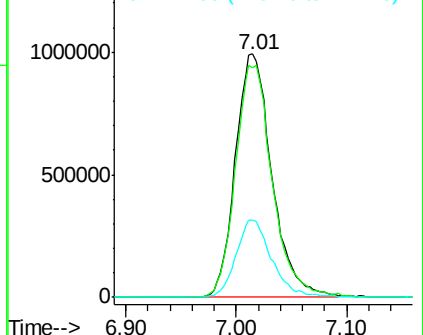
121 31.8 24.7 37.1



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: 9.786 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

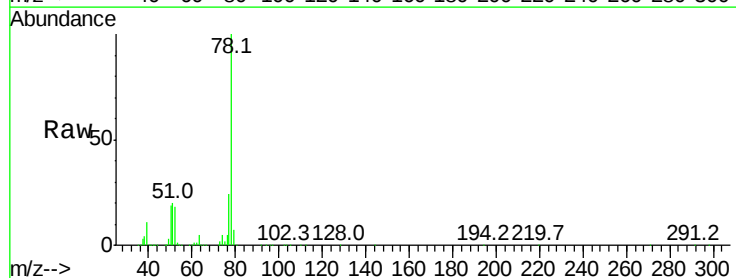
Tgt Ion: 78 Resp: 3170045

Ion Ratio Lower Upper

78 100

77 23.9 18.6 27.8

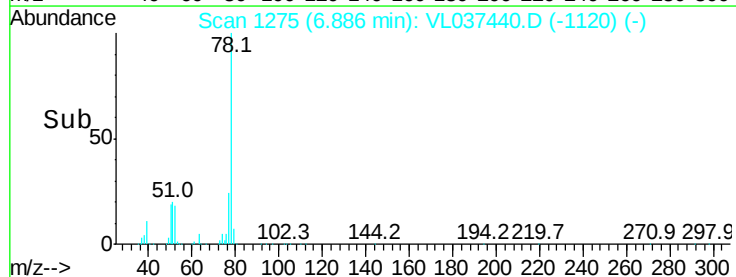
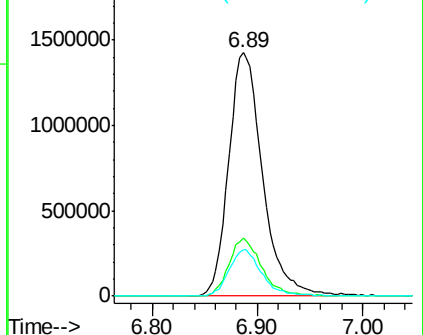
50 19.1 14.9 22.3

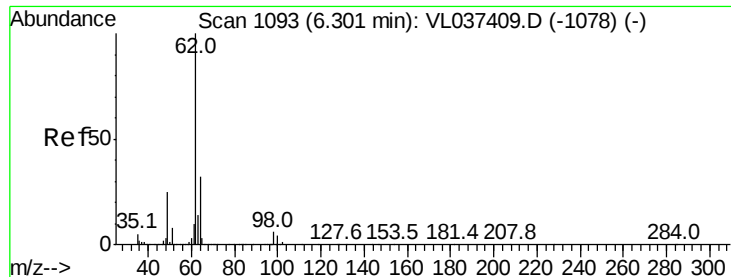


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

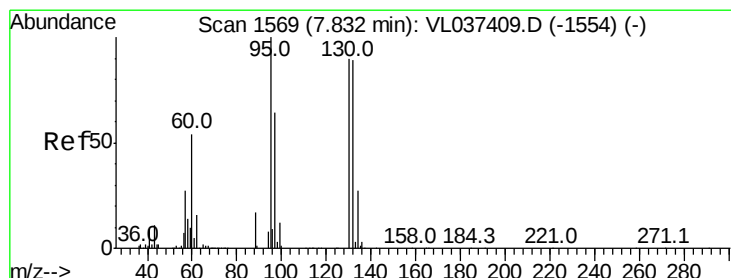
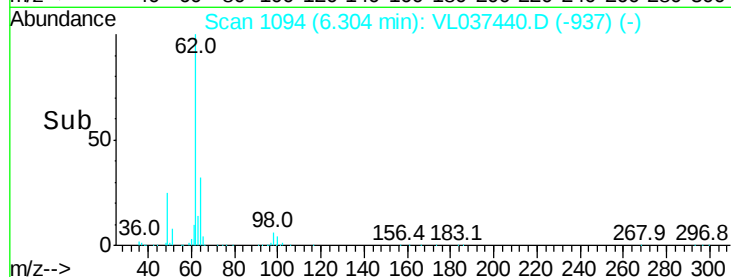
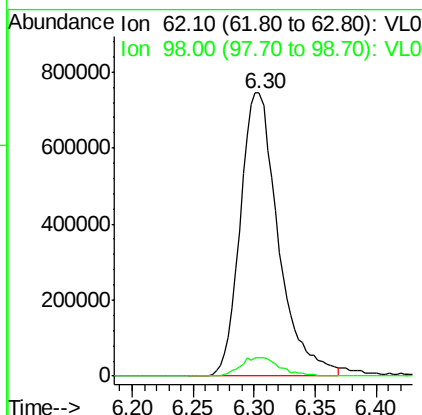
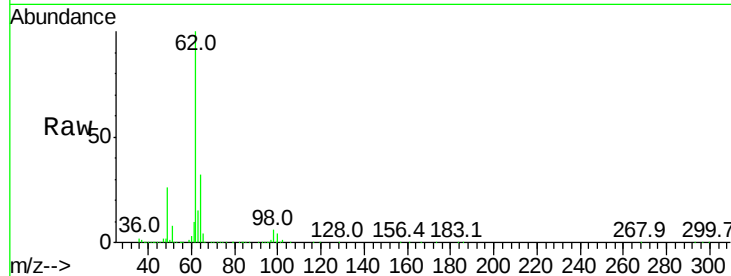




#37
 1,2-Dichloroethane
 Concen: 9.706 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. 0.00 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

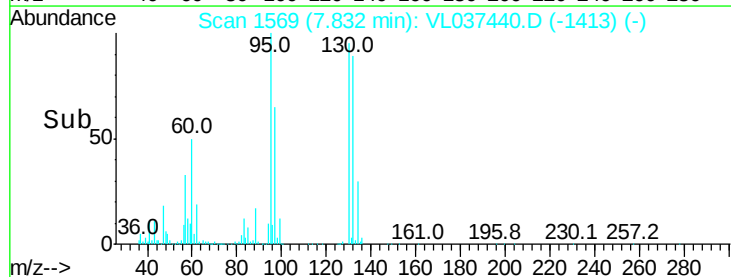
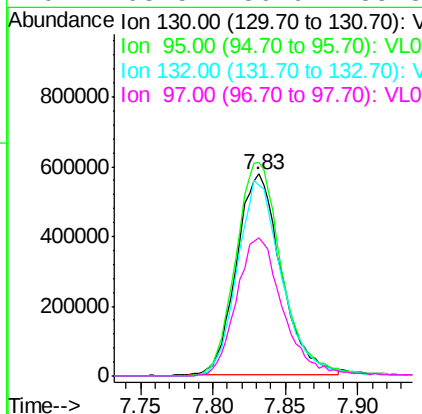
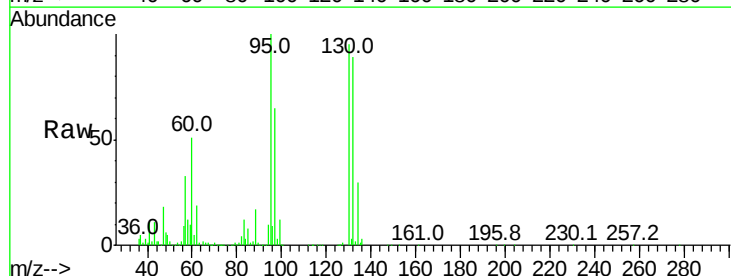
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

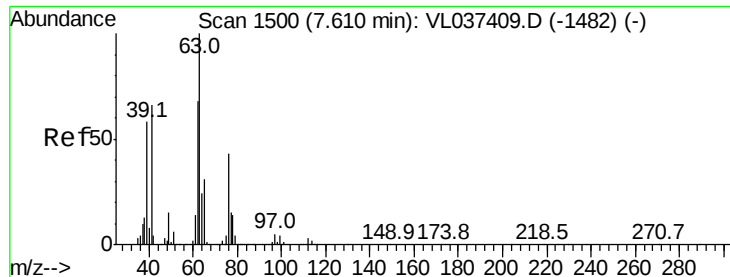
Tgt Ion: 62 Resp: 1604589
 Ion Ratio Lower Upper
 62 100
 98 7.1 5.4 8.2



#38
 Trichloroethene
 Concen: 8.690 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

Tgt Ion: 130 Resp: 1242564
 Ion Ratio Lower Upper
 130 100
 95 105.9 88.6 132.8
 132 94.8 79.2 118.8
 97 68.5 56.9 85.3





#39

1,2-Dichloropropane

Concen: 9.714 ppbv

RT: 7.61 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

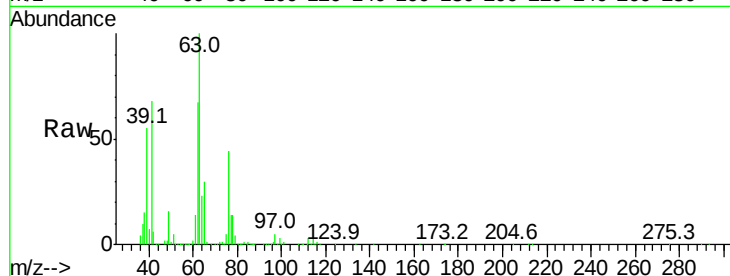
Tgt Ion: 63 Resp: 1198779

Ion Ratio Lower Upper

63 100

41 68.1 53.0 79.6

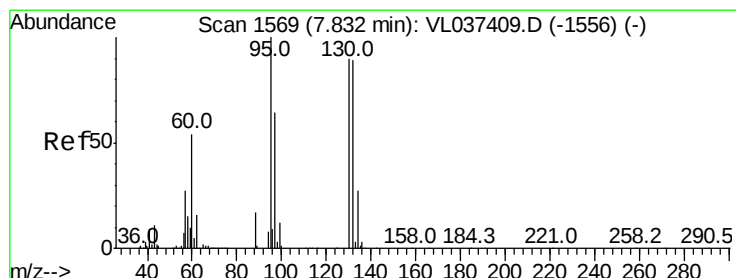
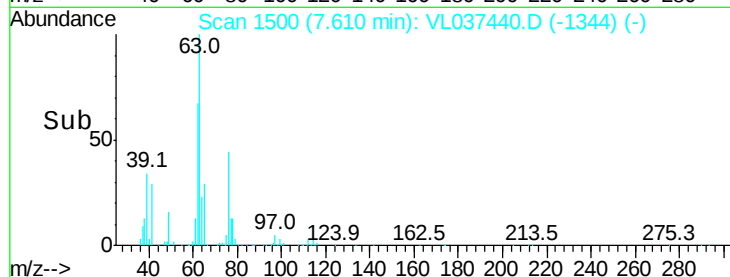
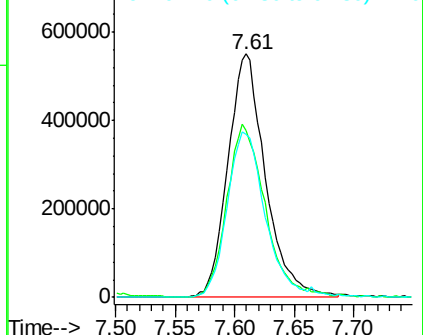
62 66.9 54.5 81.7



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



#40

1,4-Dioxane

Concen: 5.057 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Tgt Ion: 88 Resp: 151872

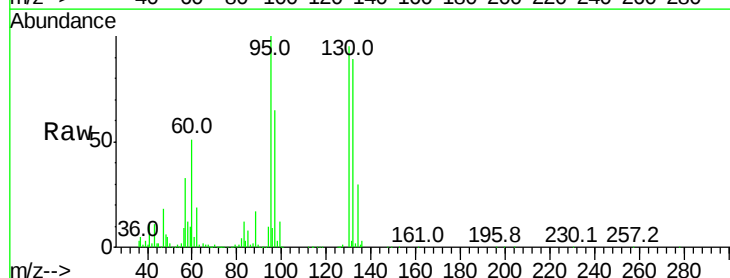
Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

43 0.0 0.0 0.0

57 0.0 0.0 0.0

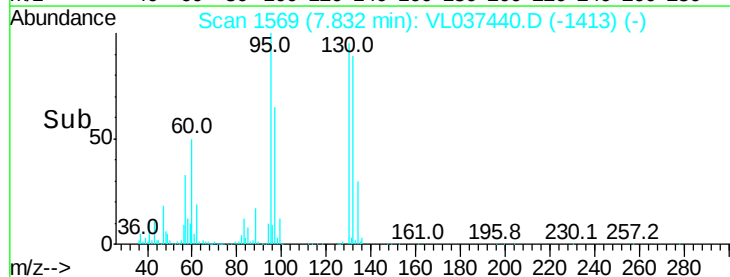
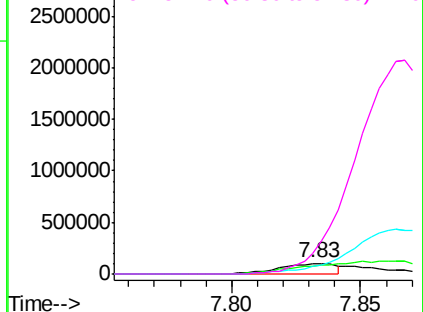


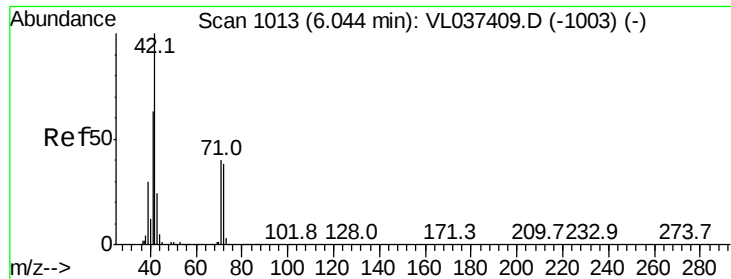
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.072 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

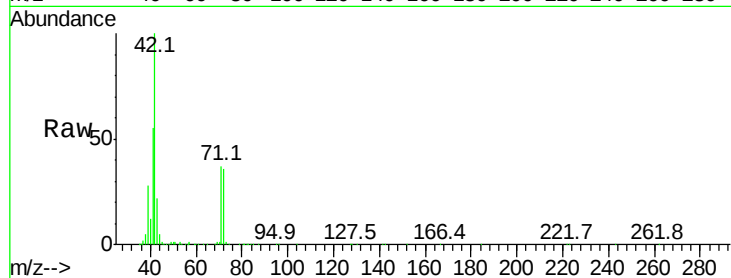
Tgt Ion: 42 Resp: 733644

Ion Ratio Lower Upper

42 100

72 40.1 33.5 50.3

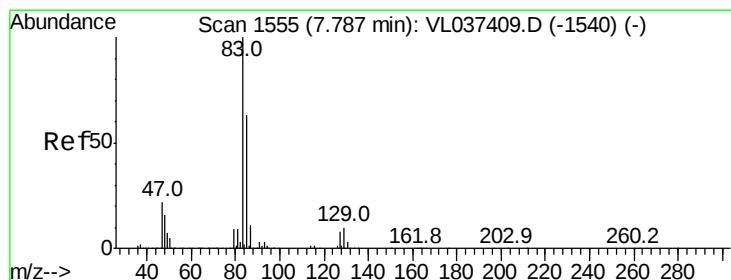
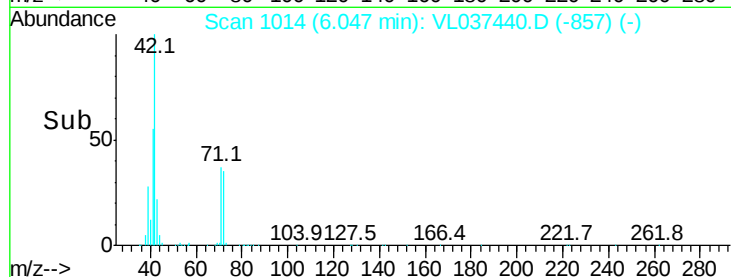
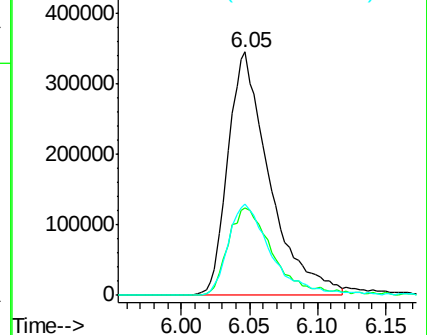
71 39.7 32.6 48.8



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.171 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

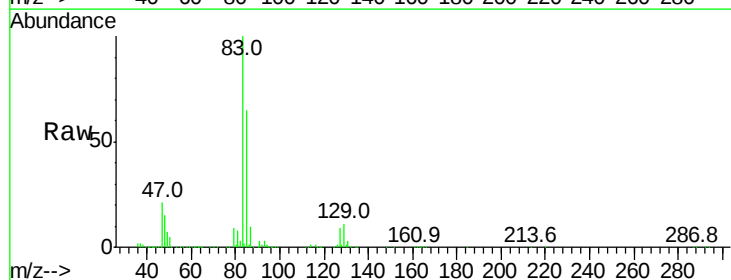
Tgt Ion: 83 Resp: 2354446

Ion Ratio Lower Upper

83 100

85 65.5 50.2 75.2

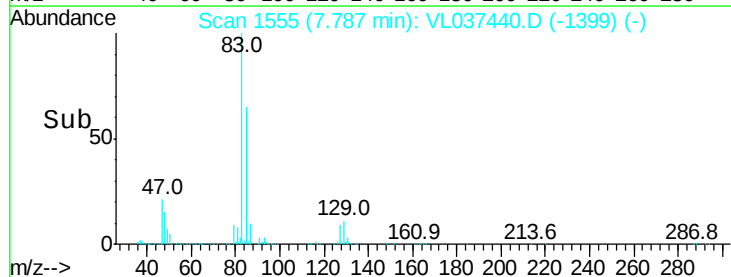
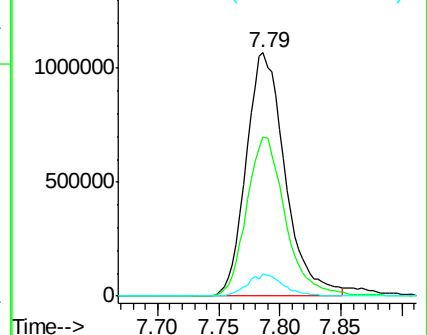
127 9.0 6.6 9.8

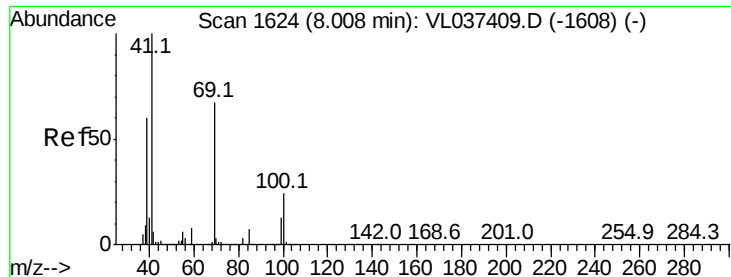


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

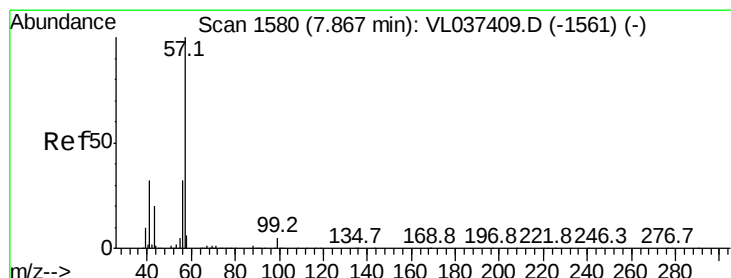
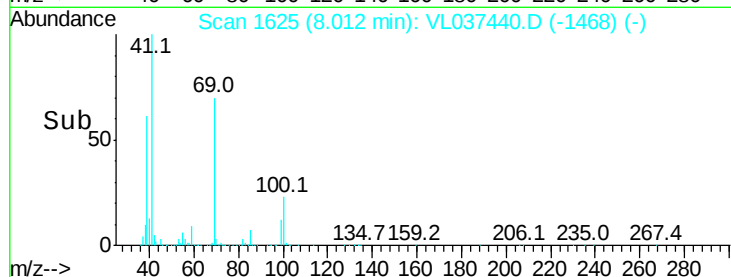
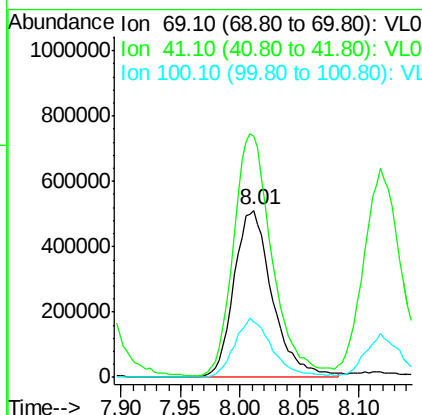
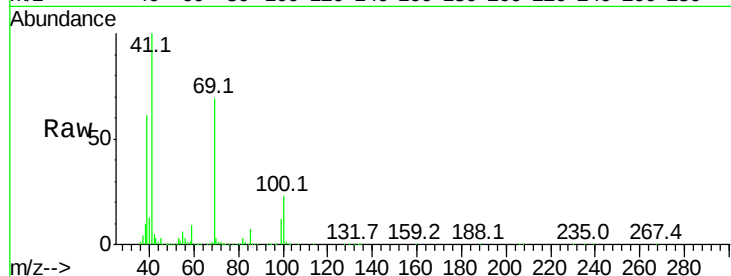




#43
Methyl Methacrylate
Concen: 10.425 ppbv
RT: 8.01 min Scan# 1625
Delta R.T. 0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

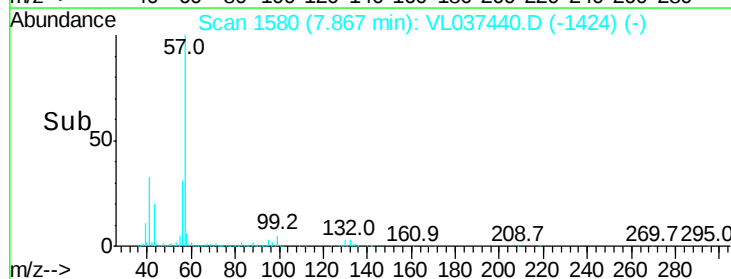
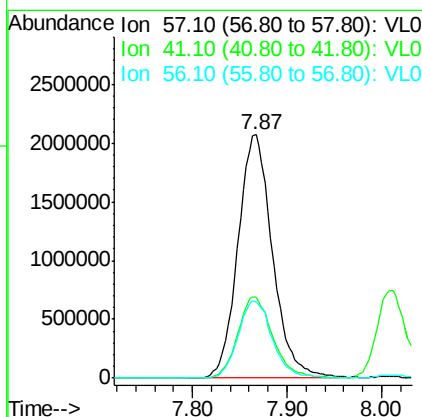
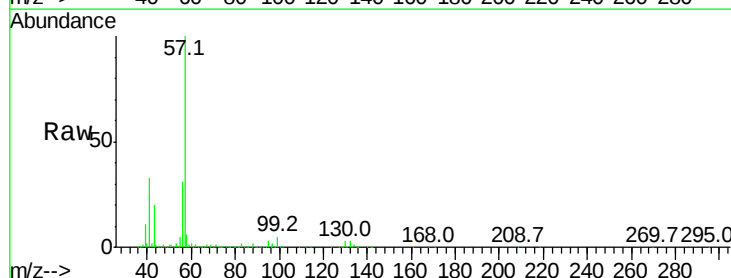
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

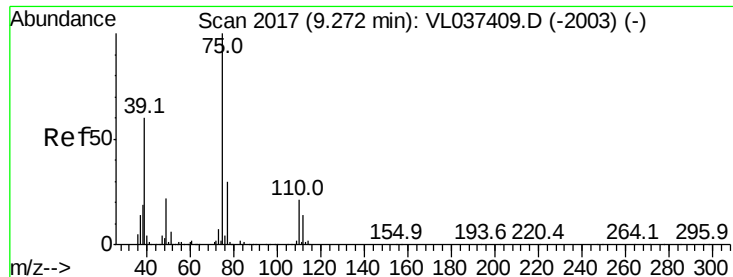
Tgt Ion: 69 Resp: 1144592
Ion Ratio Lower Upper
69 100
41 145.8 118.1 177.1
100 34.7 27.6 41.4



#44
2,2,4-Trimethylpentane
Concen: 9.701 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. 0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

Tgt Ion: 57 Resp: 5254112
Ion Ratio Lower Upper
57 100
41 33.7 26.4 39.6
56 31.6 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 3.925 ppbv

RT: 9.28 min Scan# 2019

Delta R.T. 0.01 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

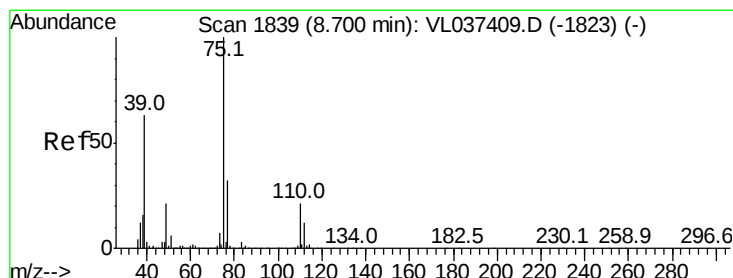
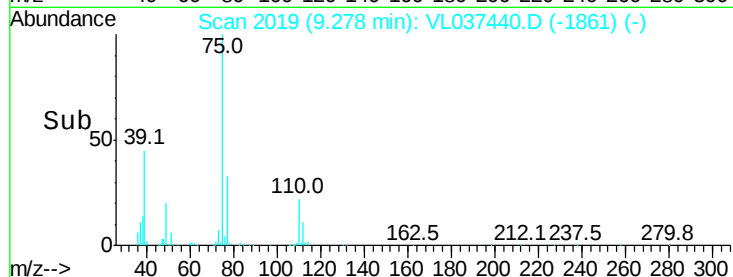
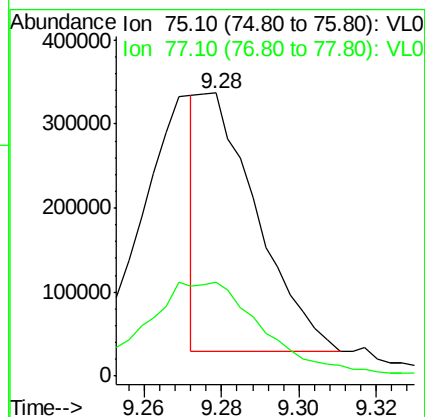
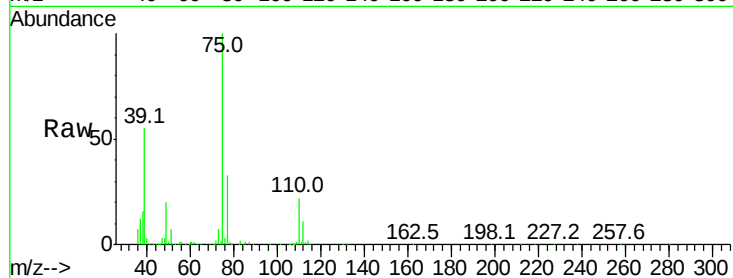
VSTDCCC010EC

Tgt Ion: 75 Resp: 320252

Ion Ratio Lower Upper

75 100

77 33.1 24.2 36.2



#46

cis-1,3-Dichloropropene

Concen: 8.592 ppbv

RT: 8.70 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

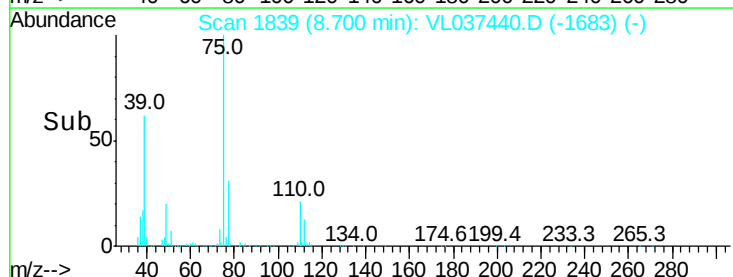
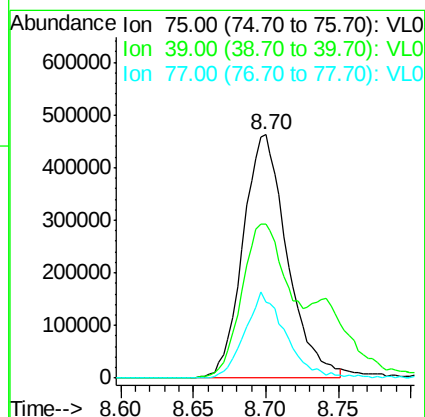
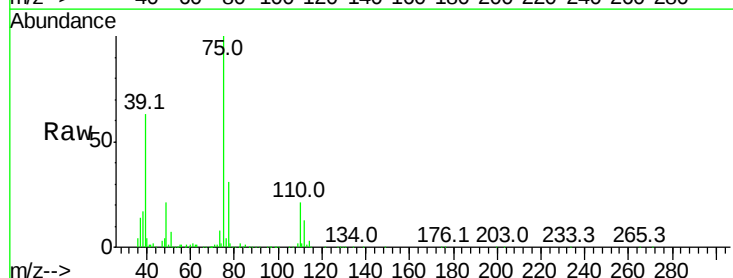
Tgt Ion: 75 Resp: 978620

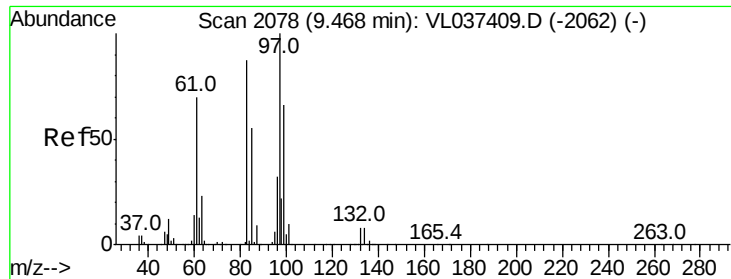
Ion Ratio Lower Upper

75 100

39 63.0 50.1 75.1

77 31.4 25.8 38.8



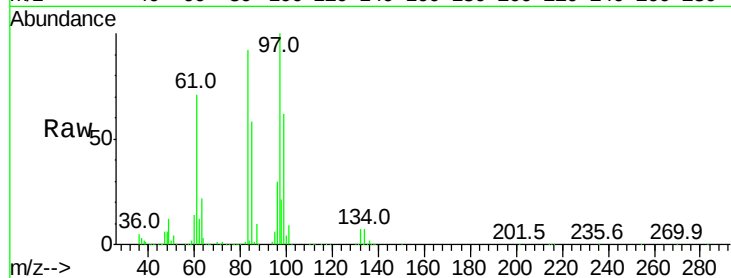


#47
 1,1,2-Trichloroethane
 Concen: 9.371 ppbv
 RT: 9.47 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 97 Resp: 1250149

Ion	Ratio	Lower	Upper
97	100		
83	91.3	69.5	104.3
85	57.5	43.8	65.8
99	61.9	53.0	79.4



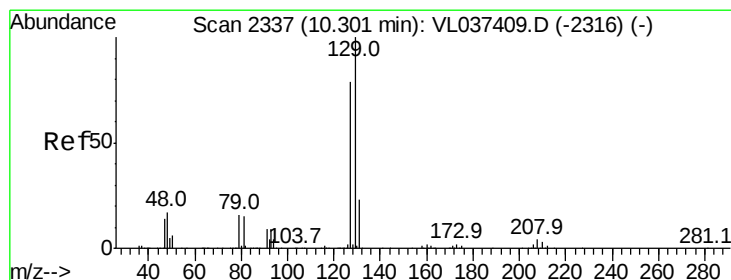
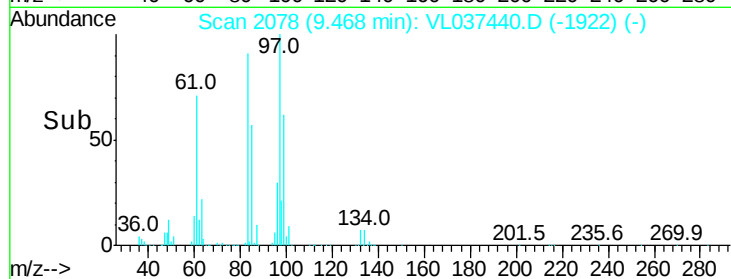
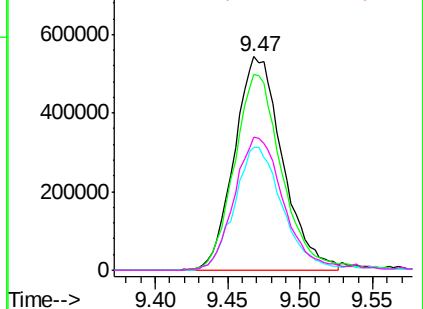
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

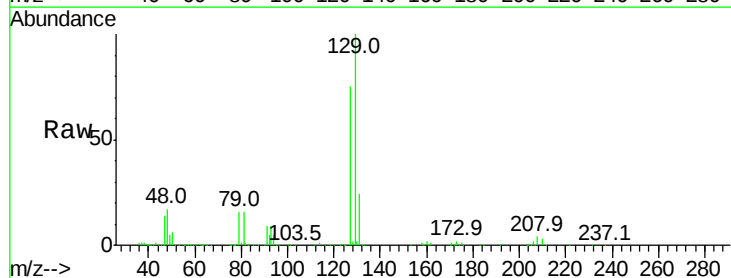
Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 10.495 ppbv
 RT: 10.30 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL037440.D
 Acq: 13 Aug 2021 8:48

Tgt Ion: 129 Resp: 2019994

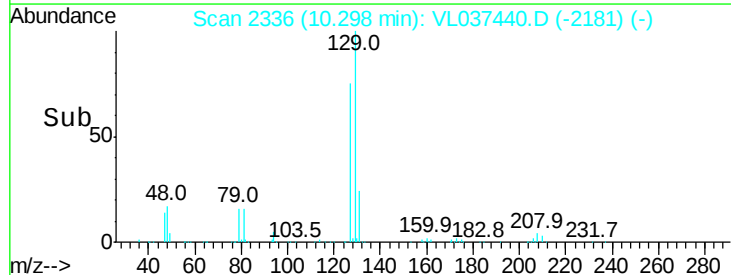
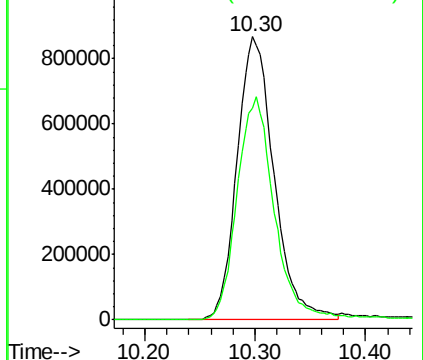
Ion	Ratio	Lower	Upper
129	100		
127	81.0	39.6	118.8

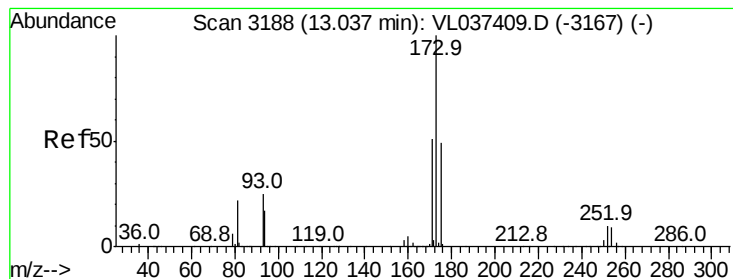


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.741 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. -0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

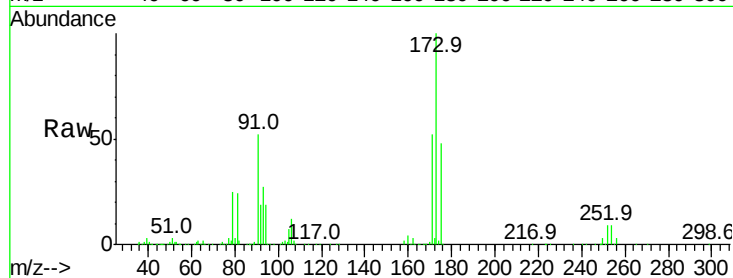
Tgt Ion:173 Resp: 1566450

Ion Ratio Lower Upper

173 100

175 51.3 39.9 59.9

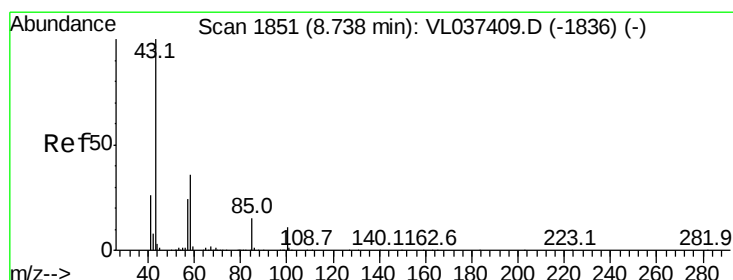
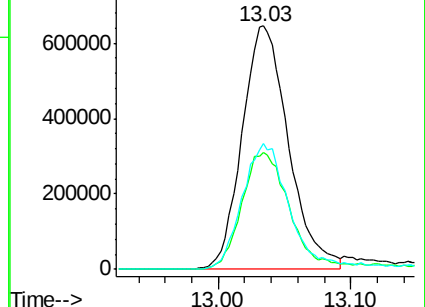
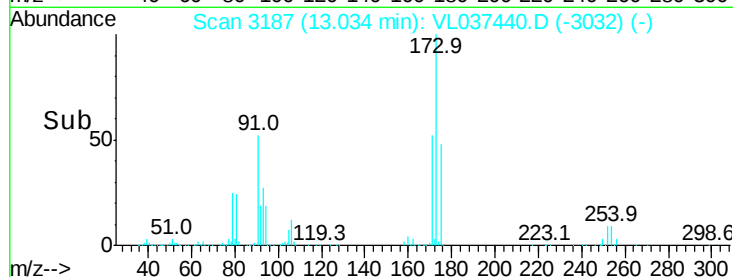
171 53.7 41.4 62.2



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: 10.320 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VL037440.D

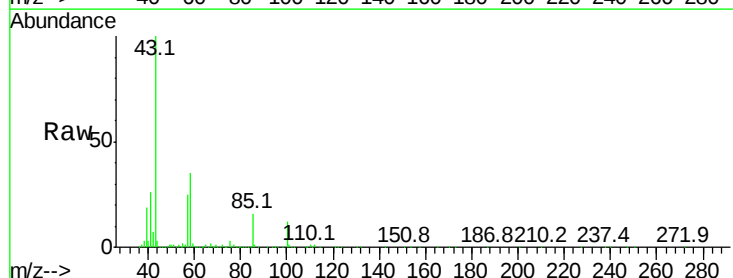
Acq: 13 Aug 2021 8:48

Tgt Ion: 43 Resp: 2059160

Ion Ratio Lower Upper

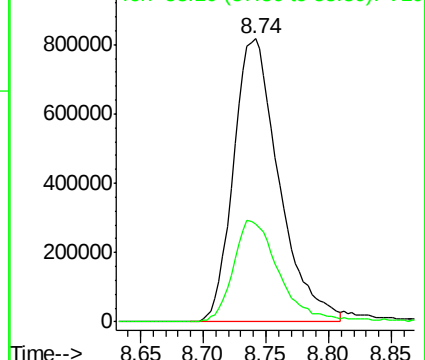
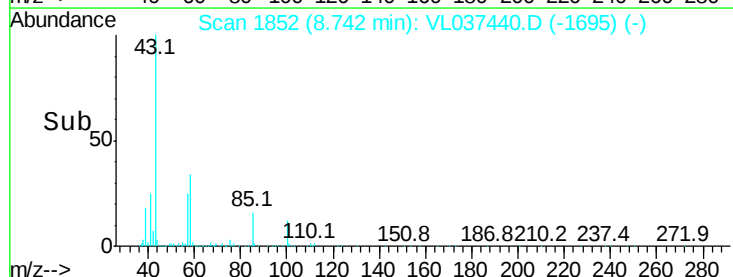
43 100

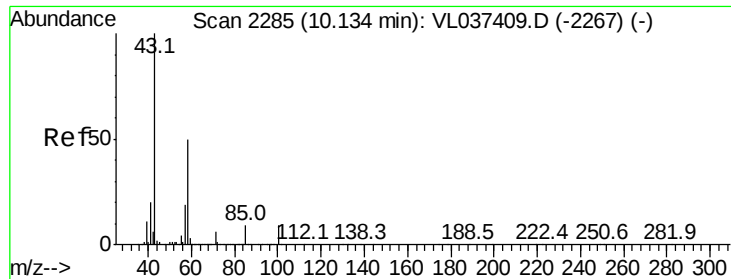
58 36.9 29.9 44.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

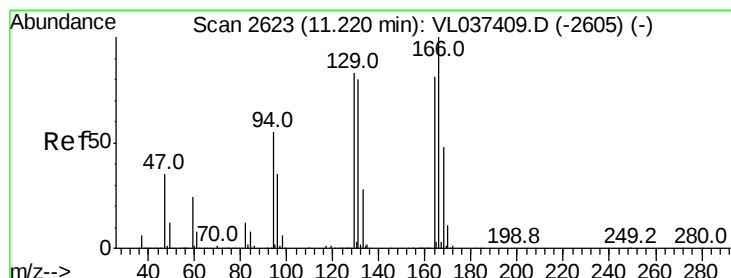
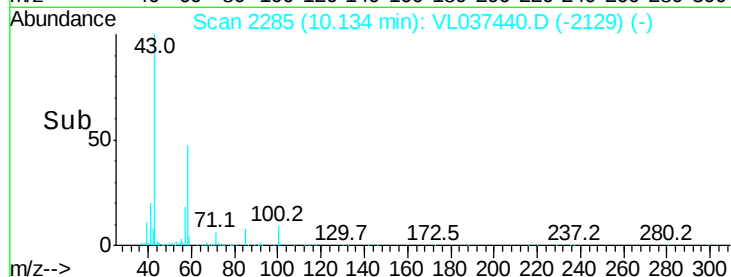
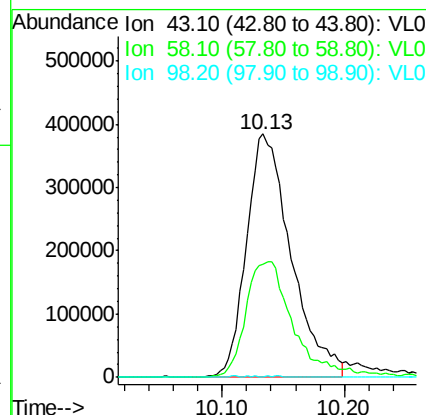
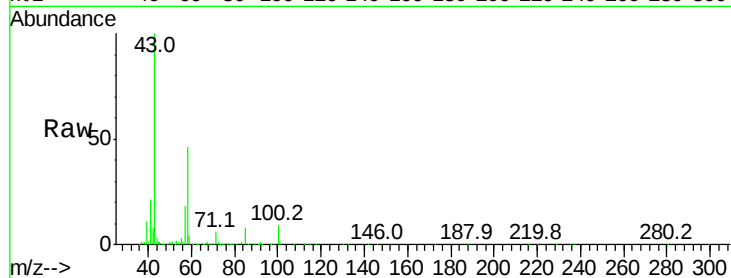




#51
2-Hexanone
Concen: 10.372 ppbv
RT: 10.13 min Scan# 2285
Delta R.T. 0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

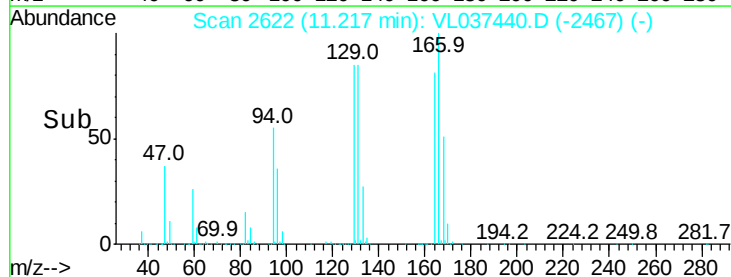
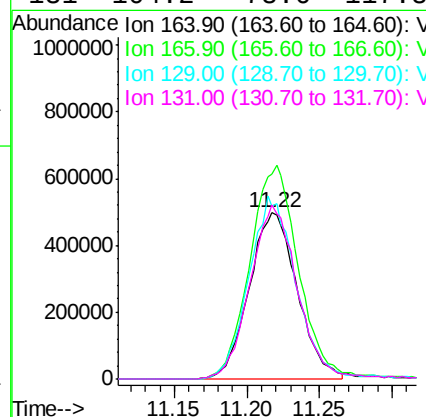
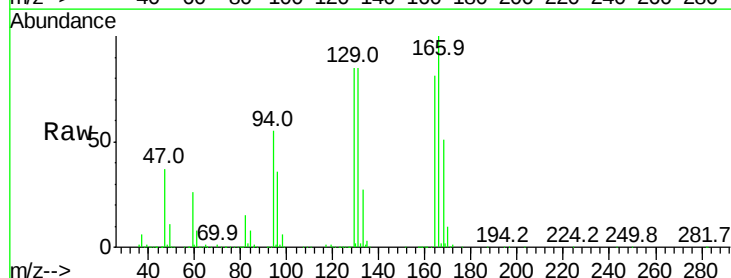
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

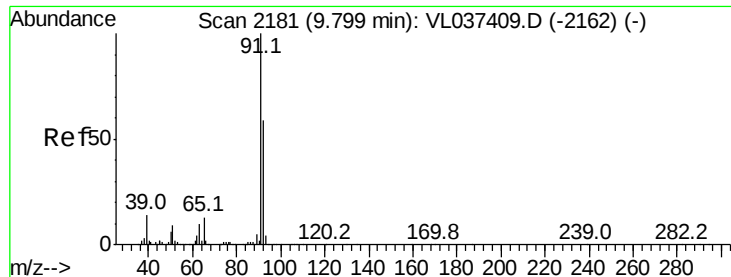
Tgt Ion: 43 Resp: 973724
Ion Ratio Lower Upper
43 100
58 51.5 39.9 59.9
98 0.5 0.2 0.2#



#52
Tetrachloroethene
Concen: 8.390 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

Tgt Ion: 164 Resp: 1144934
Ion Ratio Lower Upper
164 100
166 122.8 98.6 147.8
129 104.2 82.0 123.0
131 104.2 78.6 117.8





#53

Toluene

Concen: 9.920 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL037440.D

Acq: 13 Aug 2021 8:48

Instrument :

MSVOA_L

ClientSampleId :

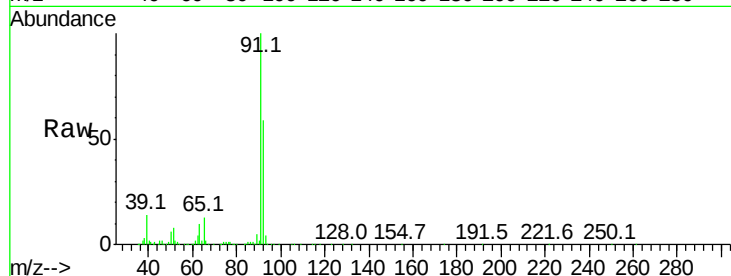
VSTDCCC010EC

Tgt Ion: 91 Resp: 3668647

Ion Ratio Lower Upper

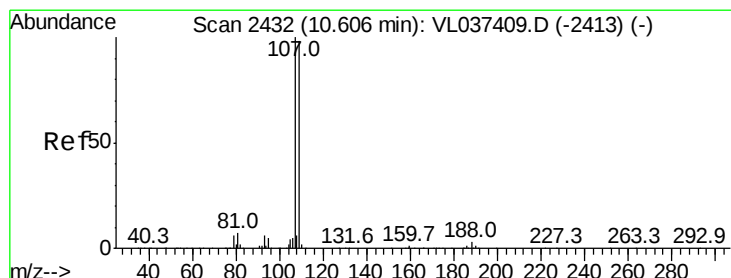
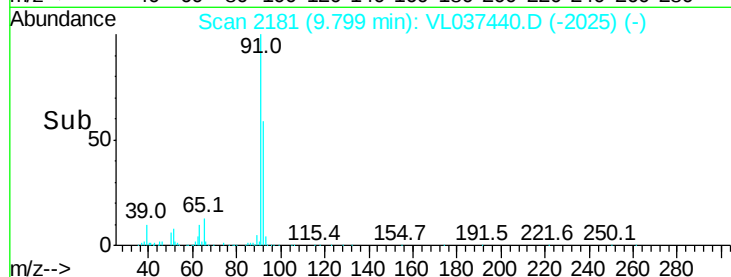
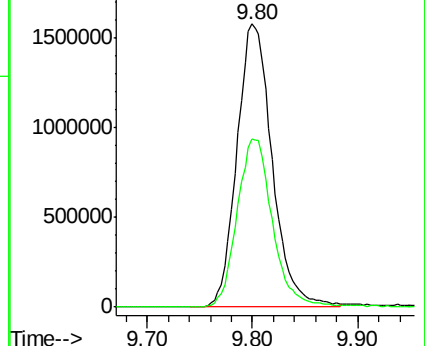
91 100

92 59.7 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.785 ppbv

RT: 10.61 min Scan# 2432

Delta R.T. 0.00 min

Lab File: VL037440.D

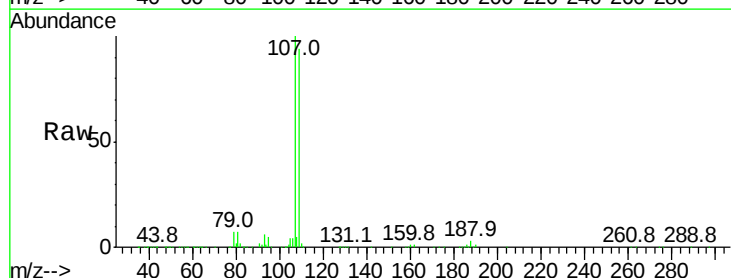
Acq: 13 Aug 2021 8:48

Tgt Ion: 107 Resp: 1776509

Ion Ratio Lower Upper

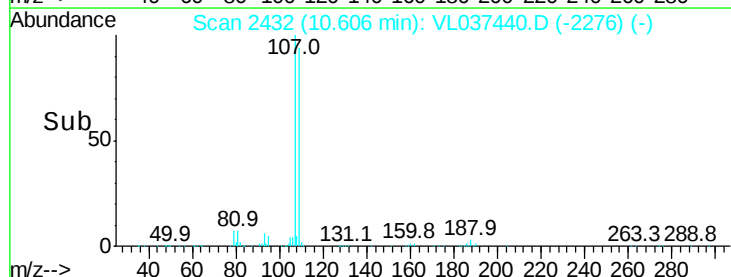
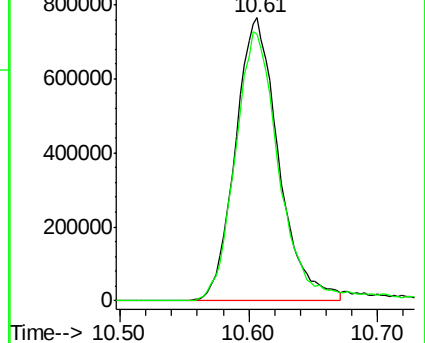
107 100

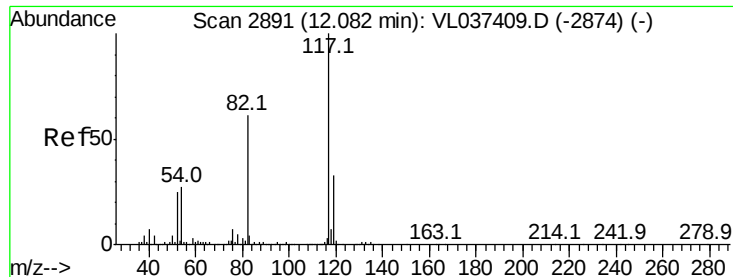
109 94.0 78.4 117.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

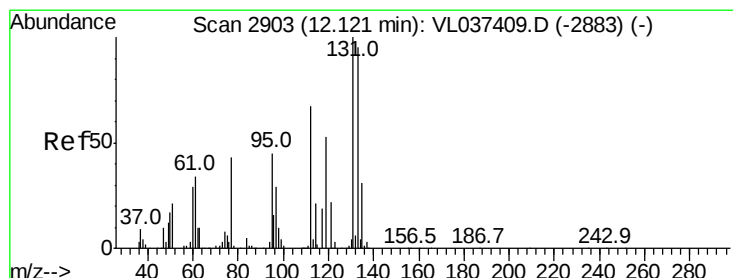
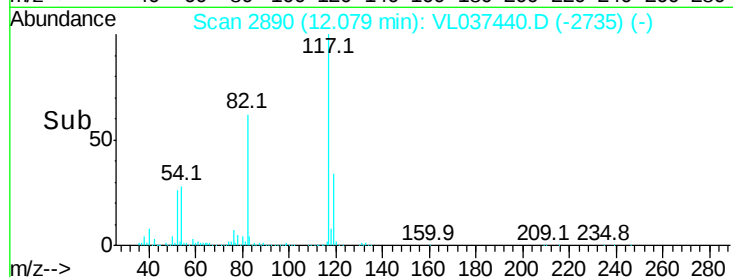
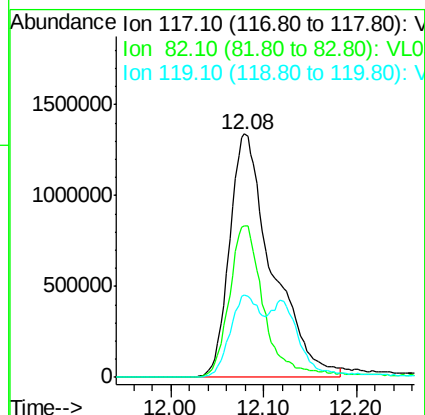
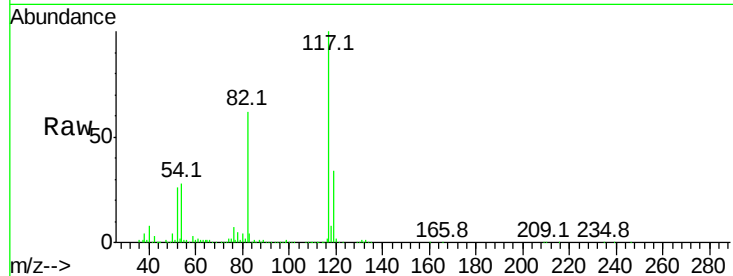




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

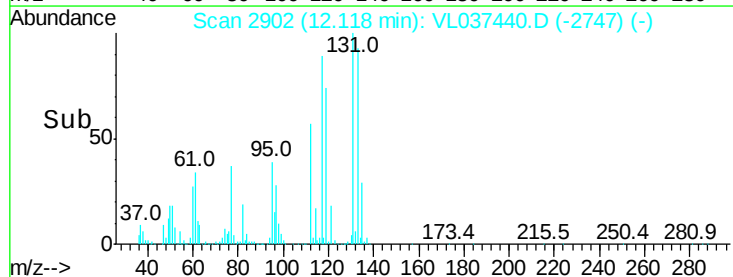
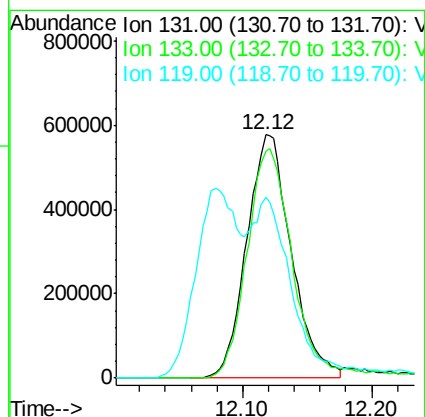
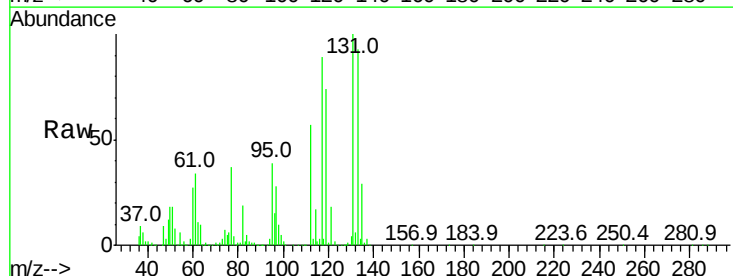
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

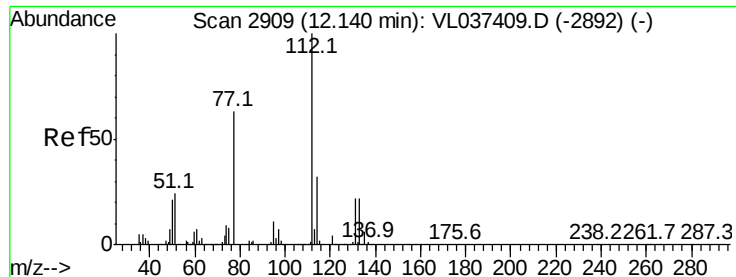
Tgt Ion:117 Resp: 4261234
Ion Ratio Lower Upper
117 100
82 52.0 53.1 79.7#
119 26.3 28.0 42.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 8.186 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

Tgt Ion:131 Resp: 1388590
Ion Ratio Lower Upper
131 100
133 100.3 77.1 115.7
119 75.9 59.7 89.5

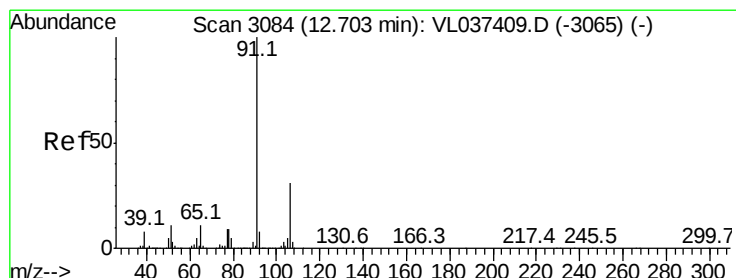
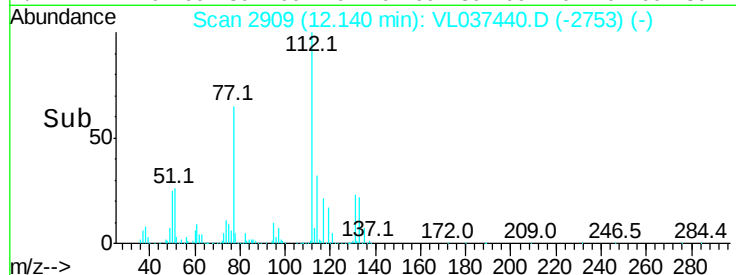
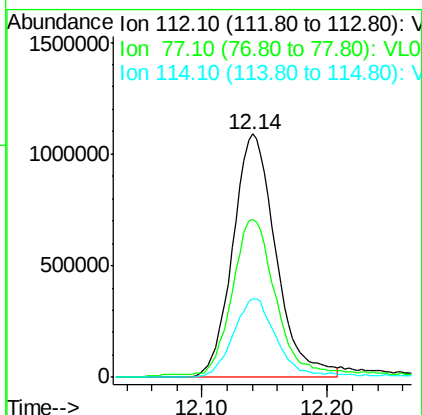
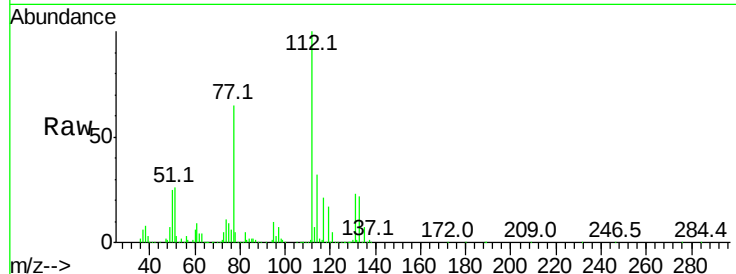




#57
Chlorobenzene
Concen: 7.498 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 112 Resp: 2589467
Ion Ratio Lower Upper
112 100
77 63.7 50.0 75.0
114 31.9 28.5 34.9



#58
Ethyl Benzene
Concen: 7.919 ppbv
RT: 12.70 min Scan# 3084
Delta R.T. 0.00 min
Lab File: VL037440.D
Acq: 13 Aug 2021 8:48

Tgt Ion: 91 Resp: 4577729
Ion Ratio Lower Upper
91 100
106 30.3 24.7 37.1

