

Data File : VL037411.D
Acq On : 12 Aug 2021 12:18
Operator : SY/AP
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Aug 12 12:48:48 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081221AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Aug 12 11:34:23 2021
QLast Update : Thu Aug 12 11:34:23 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1299684	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4078497	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3612321	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2487881	9.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.40%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.05	85	236224	1.006	ppbv	98
3) Chlorodifluoromethane	2.99	51	278409	1.152	ppbv	98
4) Chloromethane	3.13	50	102316	1.150	ppbv	99
5) Vinyl Chloride	3.26	62	56574	0.622	ppbv	99
6) Bromomethane	3.47	94	49845	1.000	ppbv	85
7) Chloroethane	3.55	64	33630	1.080	ppbv	95
8) Dichlorotetrafluoroethane	3.19	85	247303	1.207	ppbv	95
9) Propene	3.01	41	91969	1.118	ppbv	94
10) Heptane	8.12	43	209214	1.075	ppbv	94
11) Trichlorofluoromethane	3.95	101	237392	1.202	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.48	101	158965	1.131	ppbv	91
13) Ethanol	3.63	45	7197	0.725	ppbv #	46
14) Bromoethene	3.74	108	67545	1.051	ppbv #	90
15) Acetone	3.86	43	148693	1.201	ppbv #	62
16) 1,3-Butadiene	3.32	39	91769	1.055	ppbv	88
17) tert-Butyl alcohol	4.28	59	1590	0.014	ppbv #	72
18) 1,1-Dichloroethene	4.29	96	71755	1.127	ppbv	90
19) Isopropyl Alcohol	3.99	45	64759	0.908	ppbv #	85
20) Methylene Chloride	4.34	84	78917	1.174	ppbv #	95
21) Allyl Chloride	4.41	41	115109	1.185	ppbv	95
22) trans-1,2-Dichloroethene	4.88	96	64206	1.067	ppbv	94
23) Vinyl Acetate	5.07	43	99295	0.499	ppbv #	96
24) 1,1-Dichloroethane	5.01	63	181309	1.158	ppbv	97
25) Ethyl Acetate	5.68	43	352388	1.112	ppbv	98
26) Hexane	5.68	57	175682	1.094	ppbv	95
27) Carbon Disulfide	4.55	76	137050	1.019	ppbv	96
28) Methyl tert-Butyl Ether	5.04	73	201708	1.176	ppbv	100
29) Chloroform	5.74	83	244856	1.064	ppbv	97
30) Cyclohexane	7.13	84	151537	1.140	ppbv #	73
31) cis-1,2-Dichloroethene	5.55	61	147597	1.026	ppbv	95
32) 1,1,1-Trichloroethane	6.51	97	236024	1.057	ppbv	96
34) 2-Butanone	5.25	43	76719	0.495	ppbv #	54
35) Carbon Tetrachloride	7.02	117	128647	0.566	ppbv	91
36) Benzene	6.89	78	357811	1.106	ppbv	99
37) 1,2-Dichloroethane	6.30	62	171815	1.038	ppbv	96
38) Trichloroethene	7.83	130	132894	0.964	ppbv	96
39) 1,2-Dichloropropane	7.61	63	133297	1.127	ppbv	97
40) 1,4-Dioxane	7.83	88	356	0.011	ppbv #	100
41) Tetrahydrofuran	6.07	42	31165	0.428	ppbv #	34
42) Bromodichloromethane	7.79	83	243425	1.040	ppbv	98
43) Methyl Methacrylate	8.01	69	49988	0.444	ppbv #	1

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Quant Time: Aug 12 12:48:48 2021
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 12 11:34:23 2021
QLast Update : Thu Aug 12 11:34:23 2021
Response via : Initial Calibration

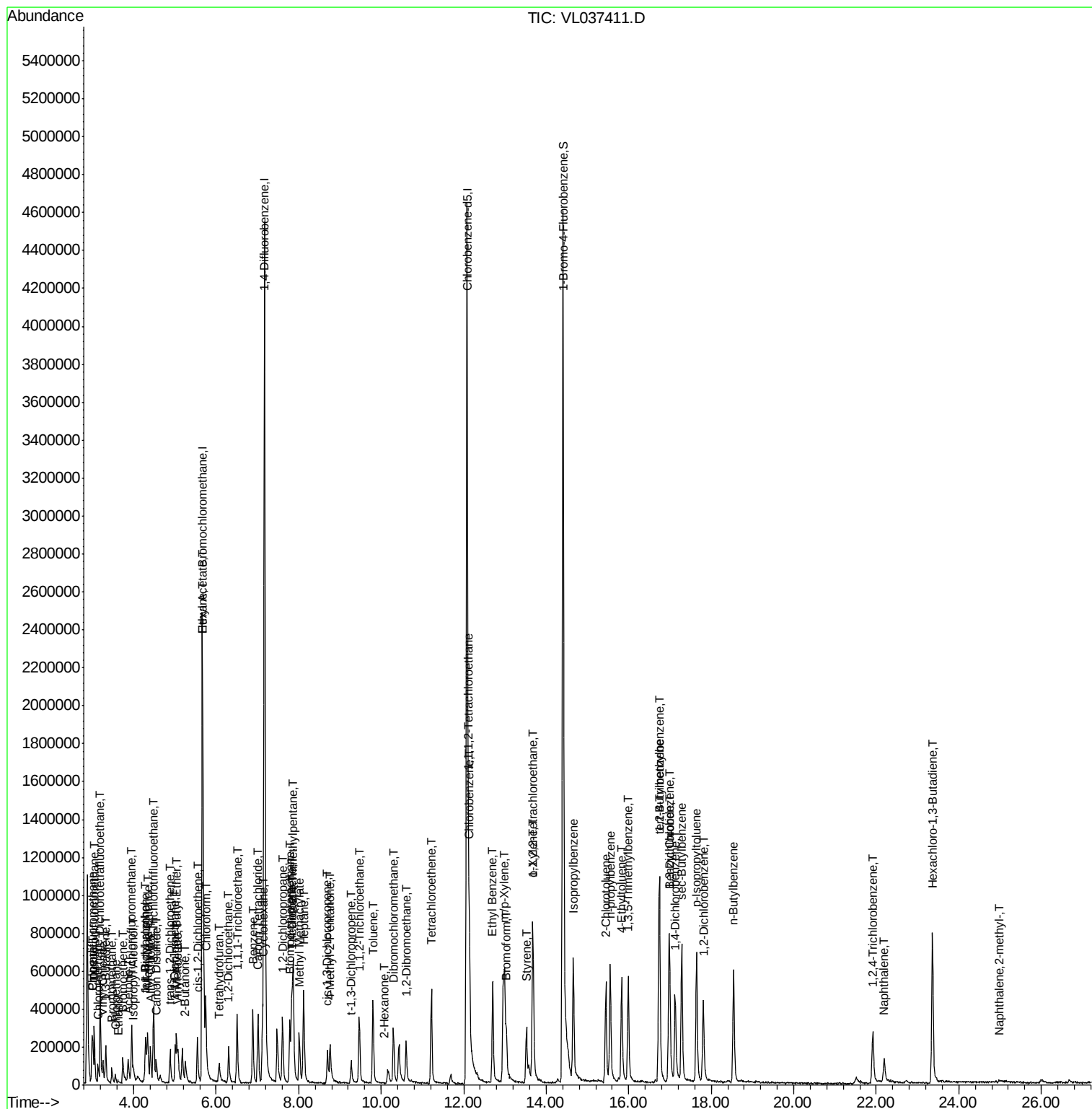
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	614627	1.138	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	71516	0.846	ppbv	93
46) cis-1,3-Dichloropropene	8.70	75	107950	0.944	ppbv #	84
47) 1,1,2-Trichloroethane	9.47	97	130339	0.977	ppbv	96
48) Dibromochloromethane	10.30	129	190018	0.966	ppbv	95
49) Bromoform	13.04	173	110965	0.718	ppbv #	75
50) 4-Methyl-2-Pentanone	8.75	43	99454	0.491	ppbv #	34
51) 2-Hexanone	10.09	43	637	0.007	ppbv #	28
52) Tetrachloroethene	11.22	164	134269	1.018	ppbv	93
53) Toluene	9.80	91	215430	0.574	ppbv #	31
54) 1,2-Dibromoethane	10.60	107	187458	0.993	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.12	131	152613	1.093	ppbv #	1
57) Chlorobenzene	12.14	112	182025	0.653	ppbv	95
58) Ethyl Benzene	12.70	91	510595	1.059	ppbv	100
59) m/p-Xylene	12.98	91	230816	0.556	ppbv #	31
60) o-Xylene	13.68	91	420618	1.093	ppbv	99
61) Styrene	13.52	104	193035	0.968	ppbv	98
62) Isopropylbenzene	14.66	105	608232	1.122	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	309083	1.062	ppbv	98
64) n-propylbenzene	15.55	120	86937	0.632	ppbv #	1
65) tert-Butylbenzene	16.73	119	563173	1.152	ppbv	97
66) Benzyl Chloride	16.98	91	7027	0.339	ppbv #	1
67) sec-Butylbenzene	17.28	105	747810	1.113	ppbv	99
69) p-Isopropyltoluene	17.64	119	325699	0.600	ppbv #	56
70) n-Butylbenzene	18.55	91	552359	1.083	ppbv	97
71) 2-Chlorotoluene	15.44	91	426178	1.077	ppbv	98
72) 4-Ethyltoluene	15.83	105	481773	1.070	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	439036	1.052	ppbv	96
74) 1,2,4-Trimethylbenzene	16.75	105	456070	1.076	ppbv	95
75) 1,3-Dichlorobenzene	16.99	146	267393	1.038	ppbv	94
76) 1,4-Dichlorobenzene	17.12	146	96143	0.380	ppbv #	1
77) 1,2-Dichlorobenzene	17.81	146	247943	0.999	ppbv	92
78) Hexachloro-1,3-Butadiene	23.36	225	121457	0.610	ppbv #	20
79) Naphthalene	22.18	128	48360	0.209	ppbv	97
80) Naphthalene,2-methyl-	24.98	142	5027	0.111	ppbv #	47
81) 1,2,4-Trichlorobenzene	21.91	180	55496	0.350	ppbv #	11

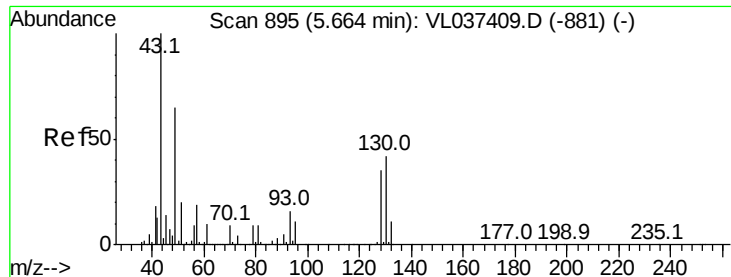
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC001

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

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VSTDIC001

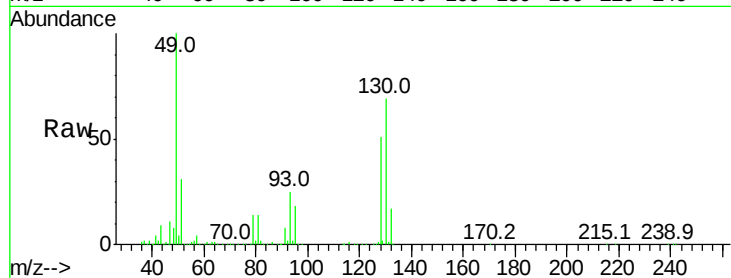
Tgt Ion: 49 Resp: 1299684

Ion Ratio Lower Upper

49 100

128 56.0 27.9 83.6

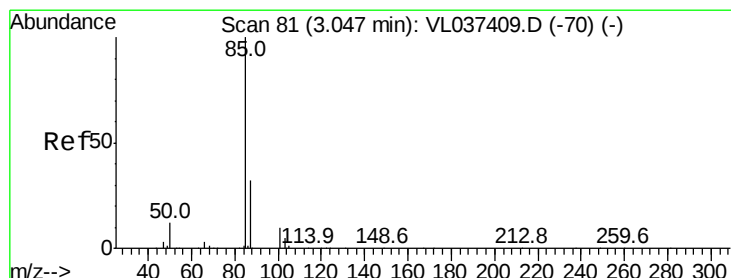
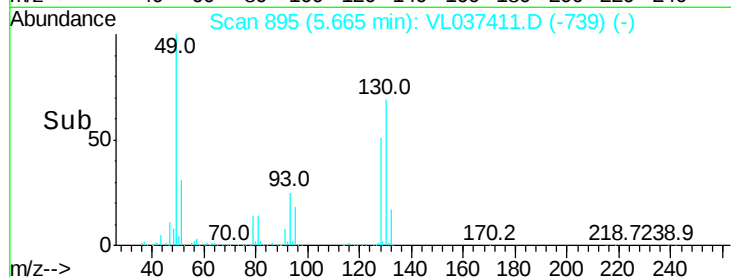
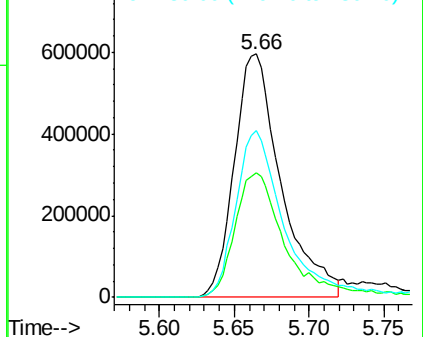
130 73.8 34.6 103.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.006 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL037411.D

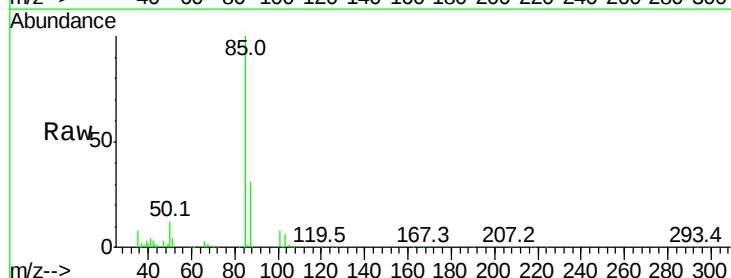
Acq: 12 Aug 2021 12:18

Tgt Ion: 85 Resp: 236224

Ion Ratio Lower Upper

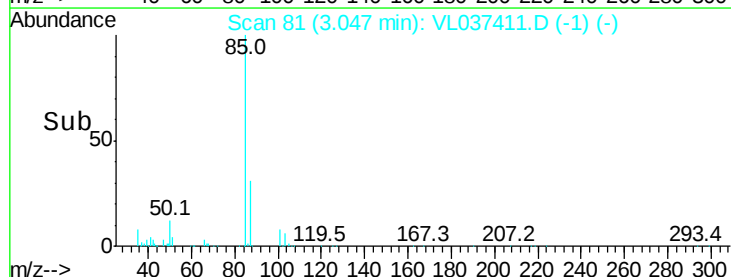
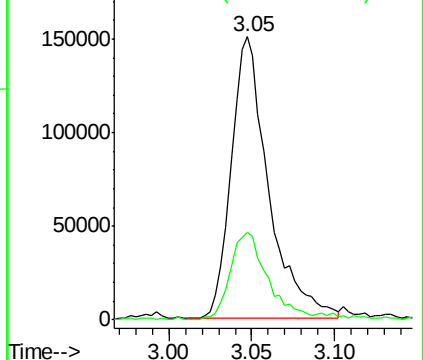
85 100

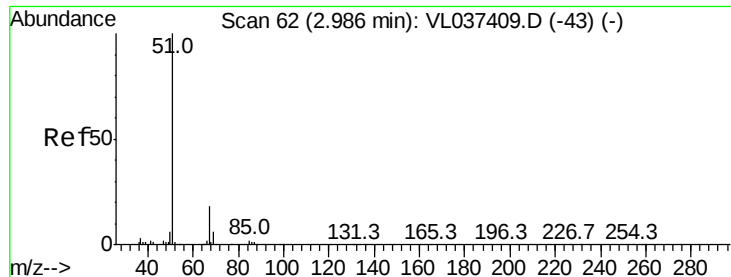
87 30.9 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.152 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

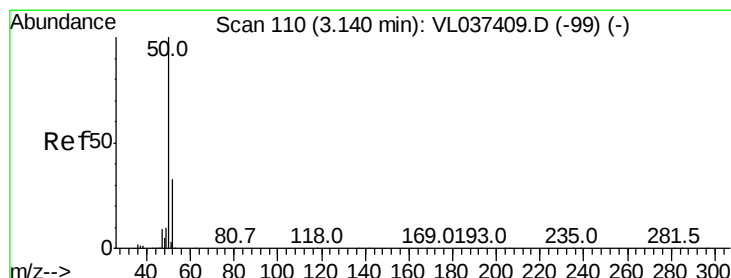
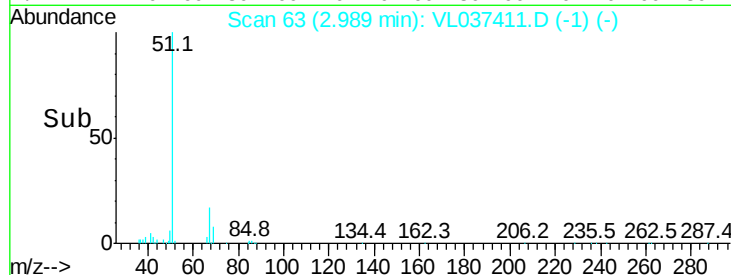
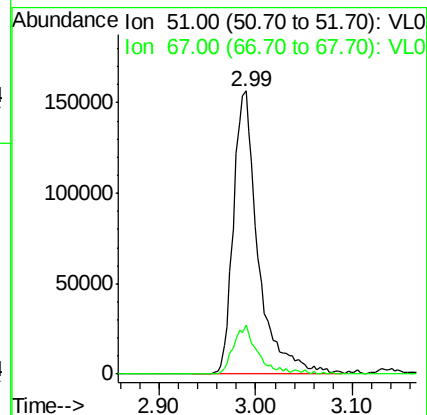
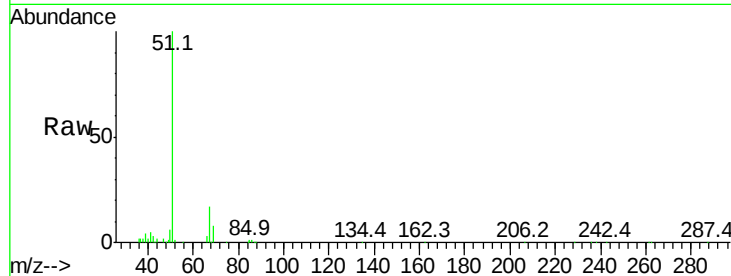
VSTDIC001

Tgt Ion: 51 Resp: 278409

Ion Ratio Lower Upper

51 100

67 17.6 14.7 22.1



#4

Chloromethane

Concen: 1.150 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037411.D

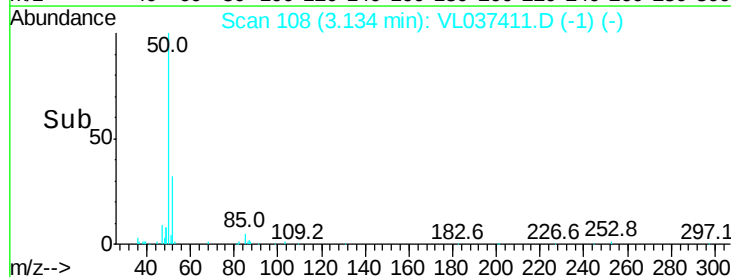
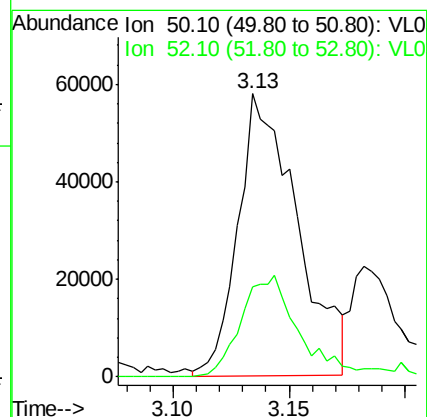
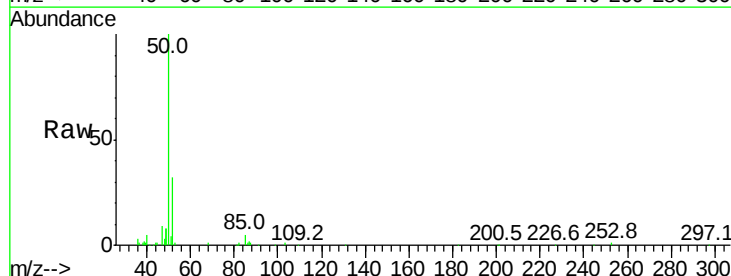
Acq: 12 Aug 2021 12:18

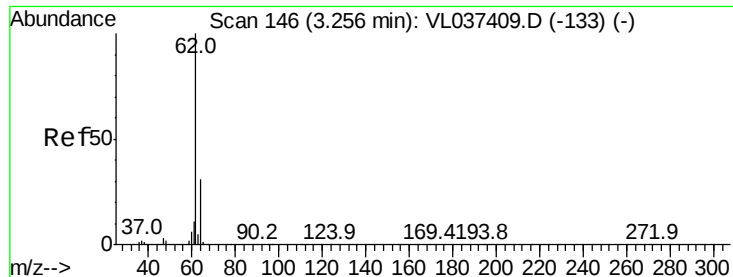
Tgt Ion: 50 Resp: 102316

Ion Ratio Lower Upper

50 100

52 32.4 26.2 39.4





#5

Vinyl Chloride

Concen: 0.622 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

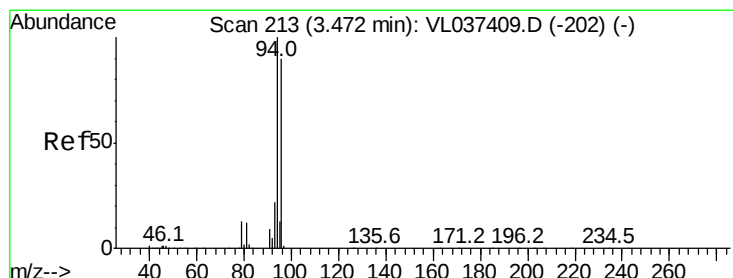
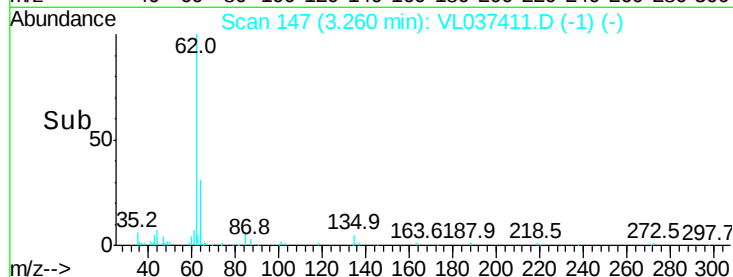
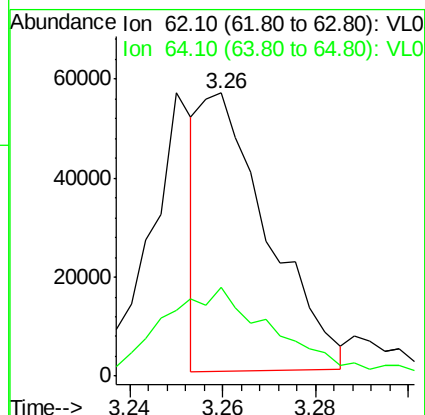
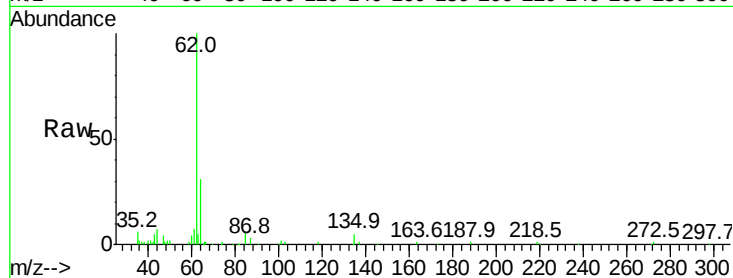
VSTDIC001

Tgt Ion: 62 Resp: 56574

Ion Ratio Lower Upper

62 100

64 31.0 25.0 37.6



#6

Bromomethane

Concen: 1.000 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.00 min

Lab File: VL037411.D

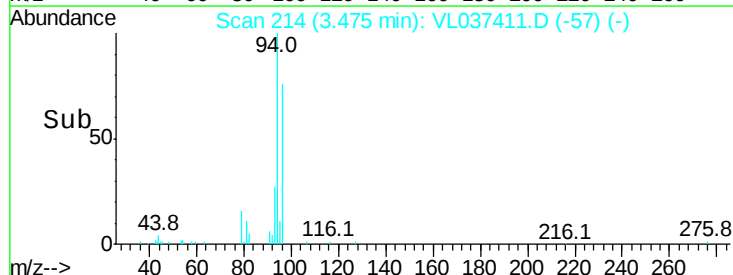
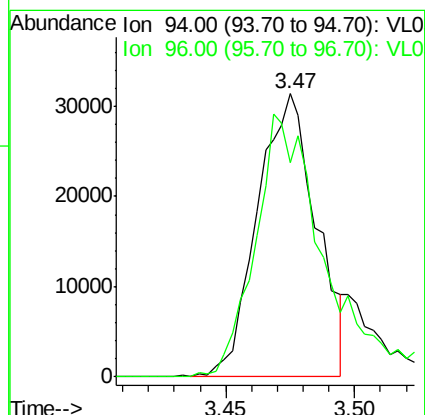
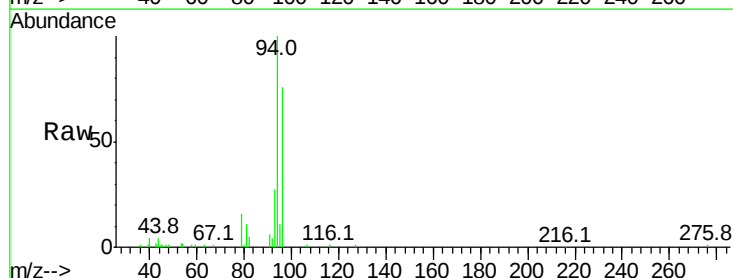
Acq: 12 Aug 2021 12:18

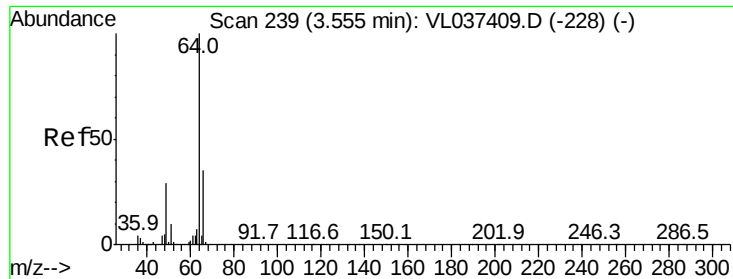
Tgt Ion: 94 Resp: 49845

Ion Ratio Lower Upper

94 100

96 75.8 72.2 108.4





#7

Chloroethane

Concen: 1.080 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

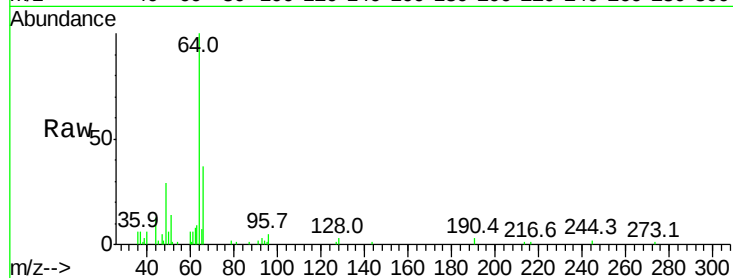
VSTDIC001

Tgt Ion: 64 Resp: 33630

Ion Ratio Lower Upper

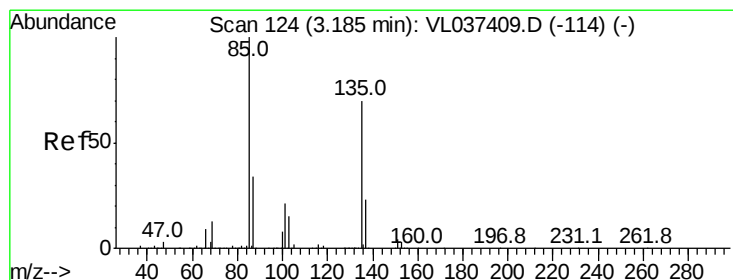
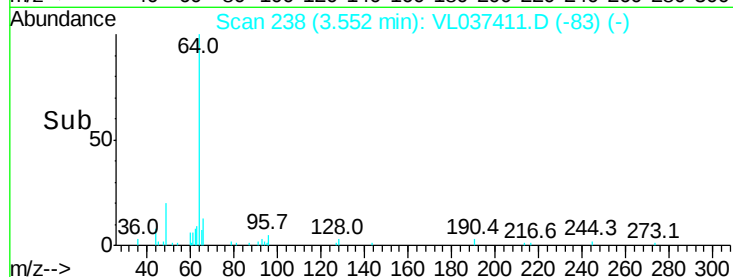
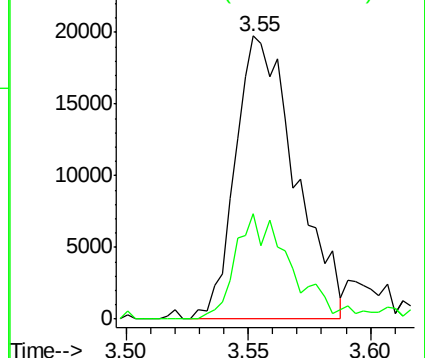
64 100

66 37.4 27.8 41.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.207 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL037411.D

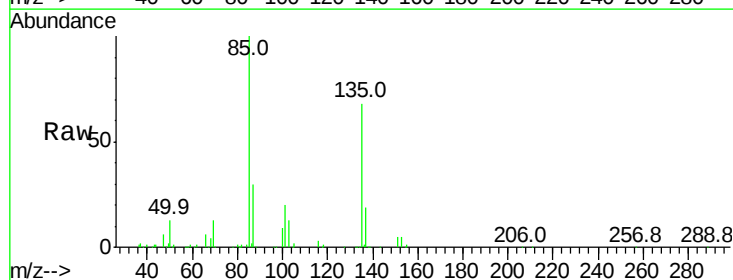
Acq: 12 Aug 2021 12:18

Tgt Ion: 85 Resp: 247303

Ion Ratio Lower Upper

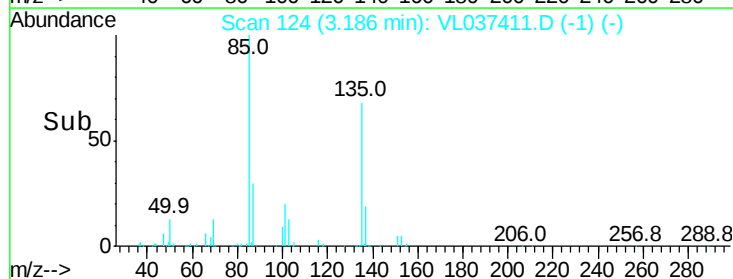
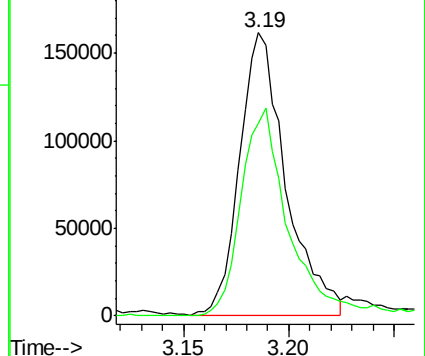
85 100

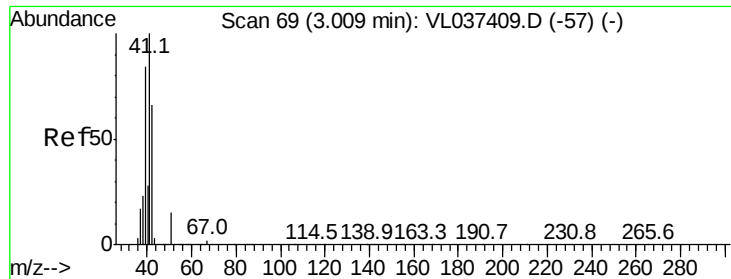
135 77.8 58.6 88.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.118 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

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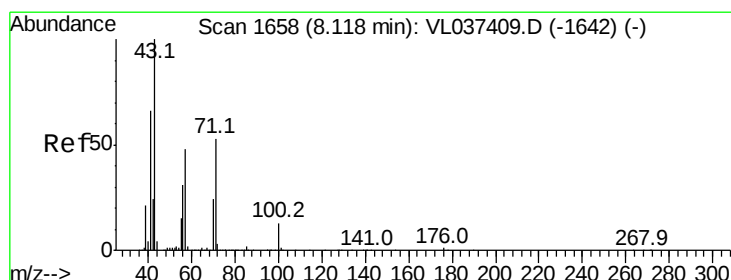
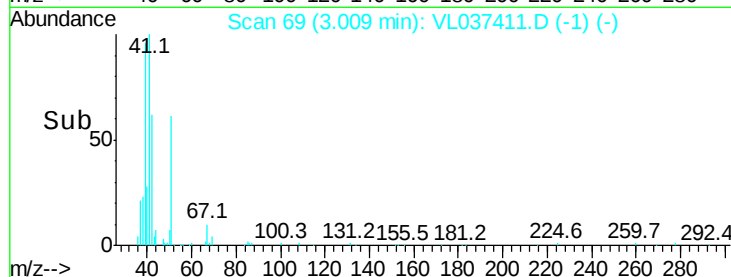
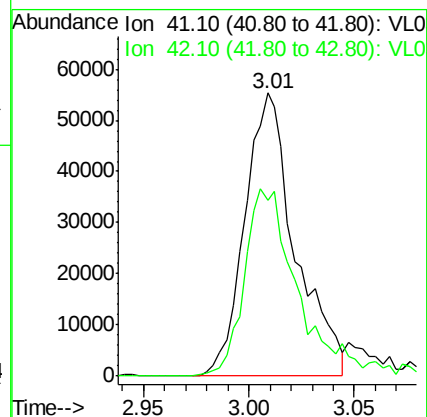
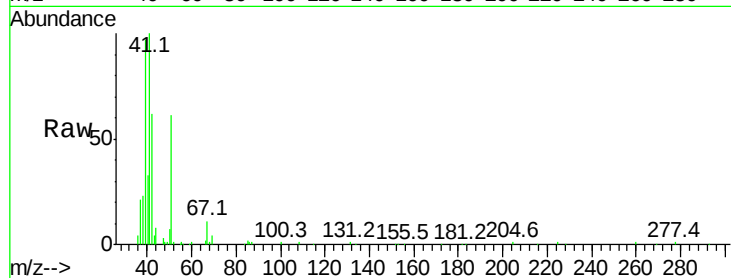
VSTDIC001

Tgt Ion: 41 Resp: 91969

Ion Ratio Lower Upper

41 100

42 72.4 53.8 80.8



#10

Heptane

Concen: 1.075 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL037411.D

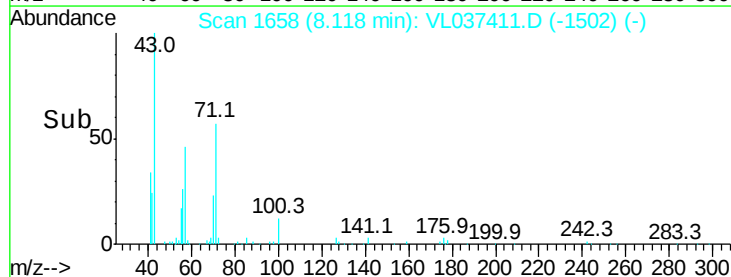
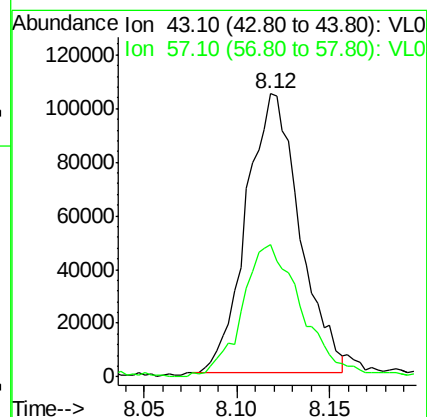
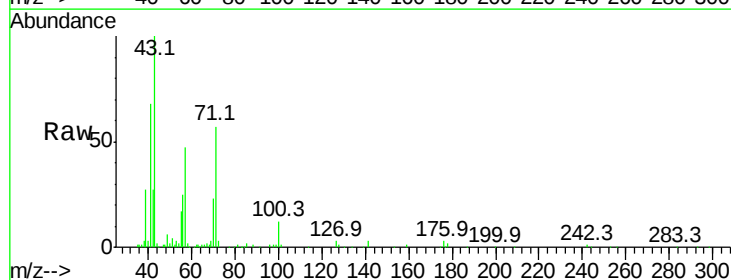
Acq: 12 Aug 2021 12:18

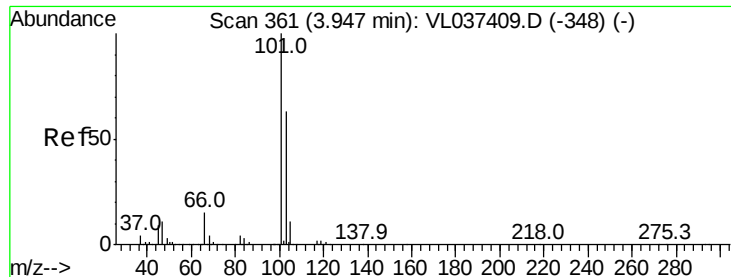
Tgt Ion: 43 Resp: 209214

Ion Ratio Lower Upper

43 100

57 54.2 40.3 60.5





#11

Trichlorofluoromethane

Concen: 1.202 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

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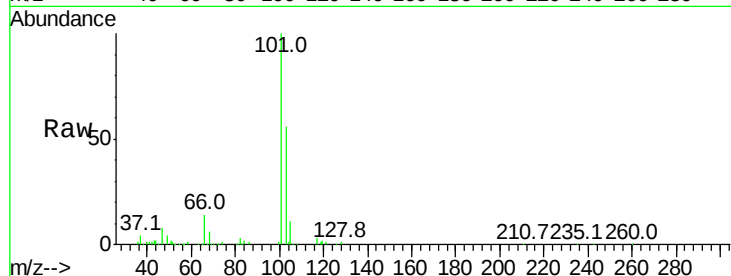
VSTDIC001

Tgt Ion:101 Resp: 237392

Ion Ratio Lower Upper

101 100

103 56.0 50.2 75.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.95

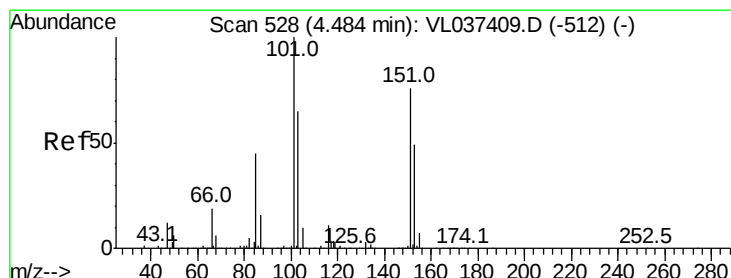
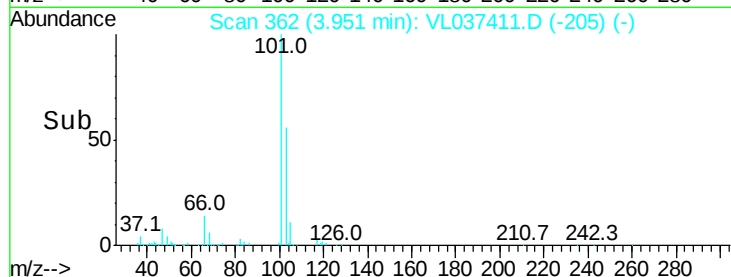
150000

100000

50000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.131 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL037411.D

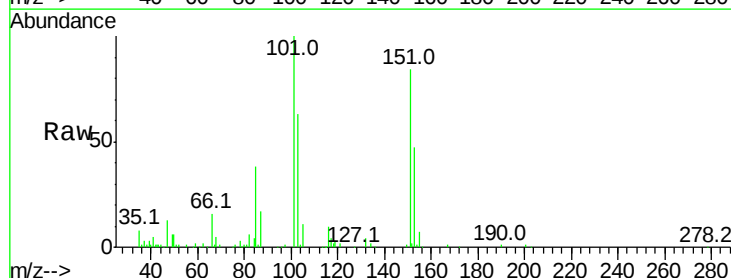
Acq: 12 Aug 2021 12:18

Tgt Ion:101 Resp: 158965

Ion Ratio Lower Upper

101 100

151 84.4 61.2 91.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.48

100000

80000

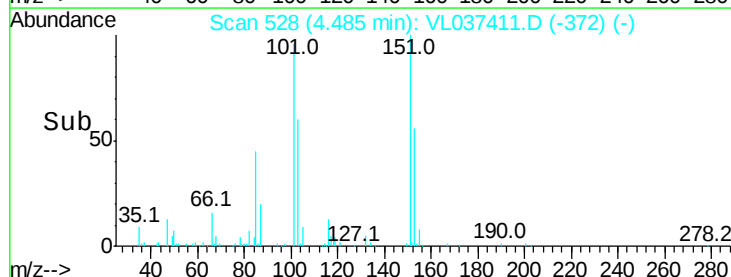
60000

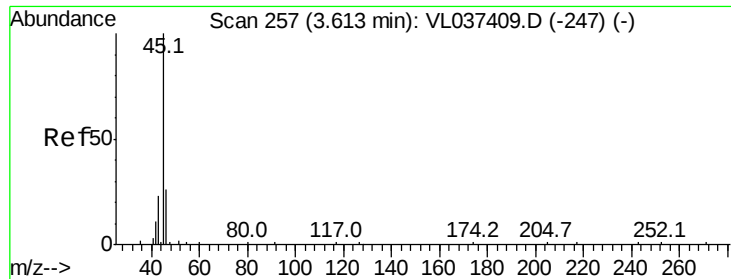
40000

20000

0

Time-->

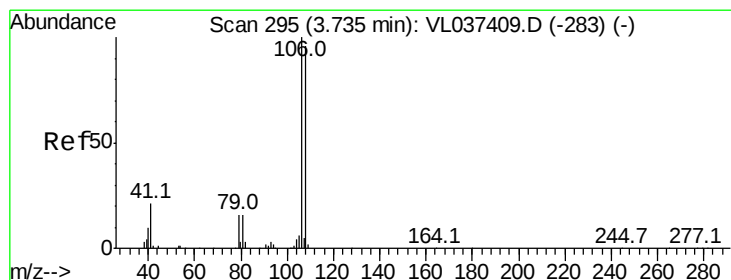
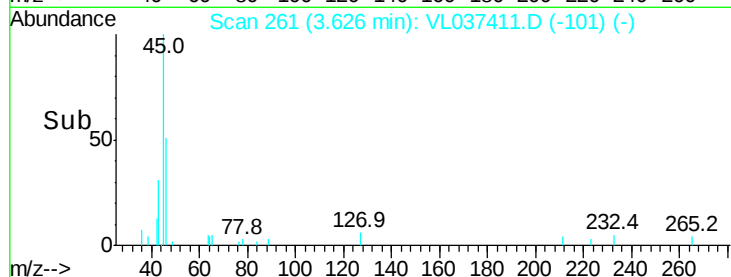
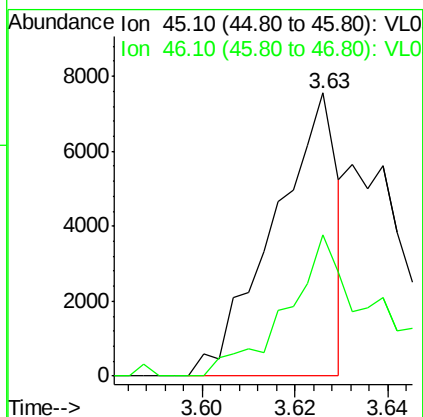
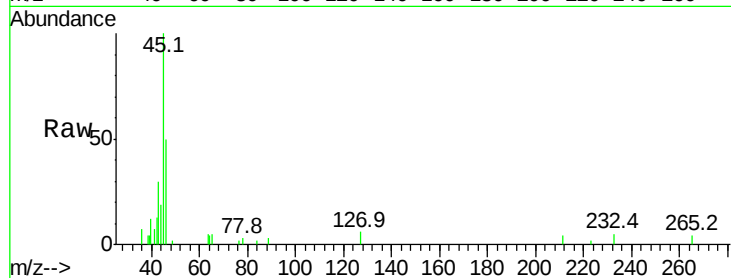




#13
Ethanol
Concen: 0.725 ppbv
RT: 3.63 min Scan# 261
Delta R.T. 0.01 min
Lab File: VL037411.D
Acq: 12 Aug 2021 12:18

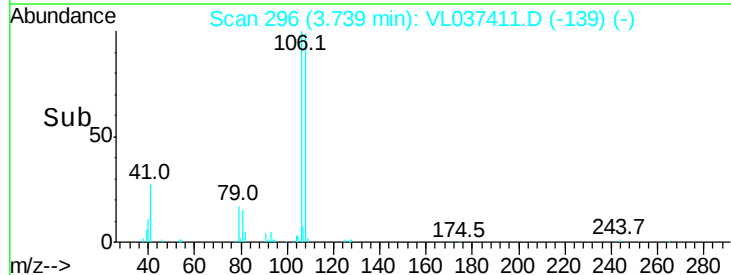
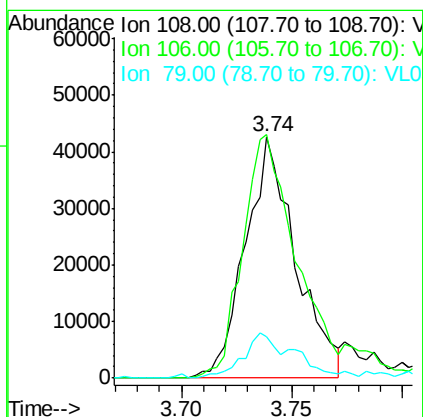
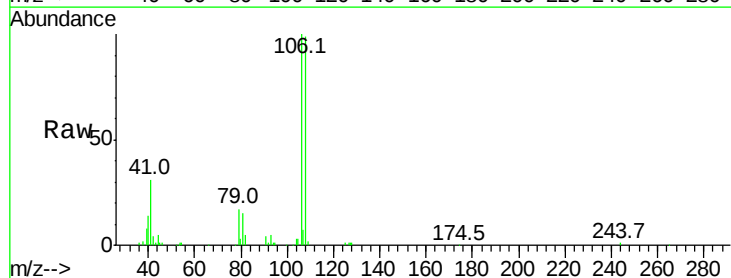
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

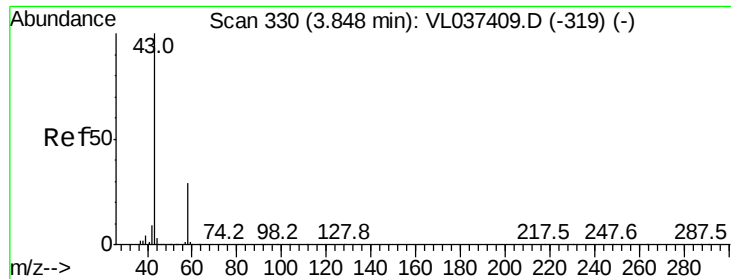
Tgt Ion: 45 Resp: 7197
Ion Ratio Lower Upper
45 100
46 80.2 18.0 72.2#



#14
Bromoethene
Concen: 1.051 ppbv
RT: 3.74 min Scan# 296
Delta R.T. 0.00 min
Lab File: VL037411.D
Acq: 12 Aug 2021 12:18

Tgt Ion: 108 Resp: 67545
Ion Ratio Lower Upper
108 100
106 119.5 87.5 131.3
79 21.8 13.5 20.3#





#15

Acetone

Concen: 1.201 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

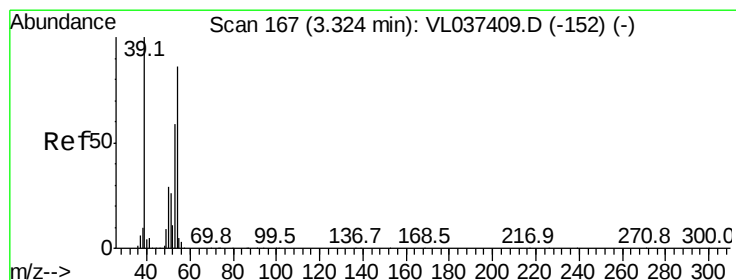
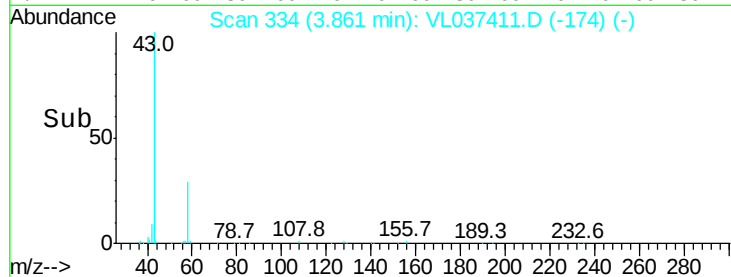
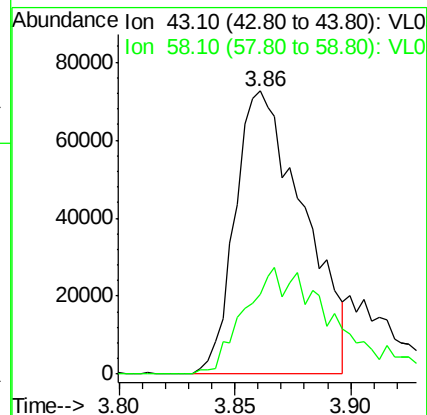
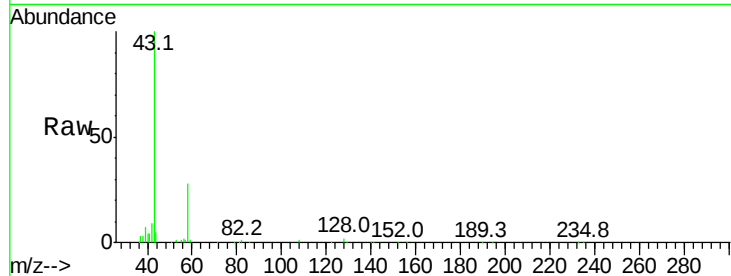
VSTDIC001

Tgt Ion: 43 Resp: 148693

Ion Ratio Lower Upper

43 100

58 51.4 24.4 36.6#



#16

1,3-Butadiene

Concen: 1.055 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL037411.D

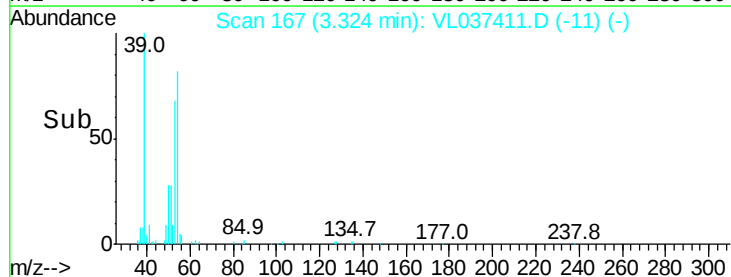
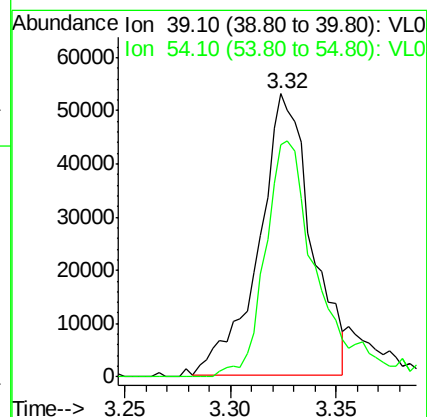
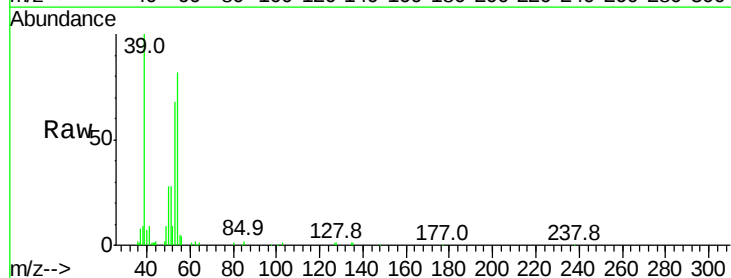
Acq: 12 Aug 2021 12:18

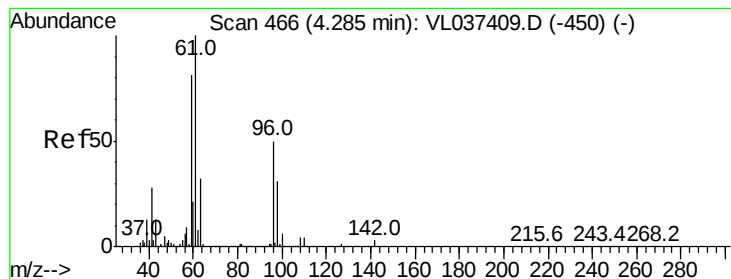
Tgt Ion: 39 Resp: 91769

Ion Ratio Lower Upper

39 100

54 87.3 61.4 92.0





#17

tert-Butyl alcohol

Concen: 0.014 ppbv

RT: 4.28 min Scan# 463

Delta R.T. -0.01 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

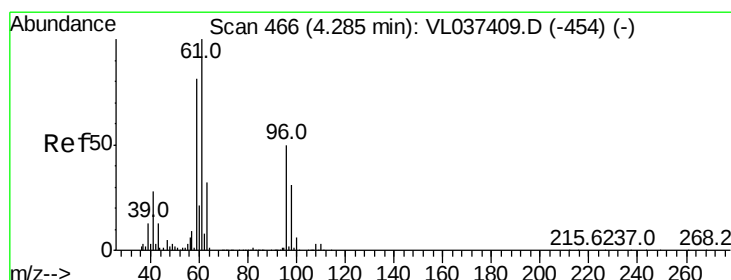
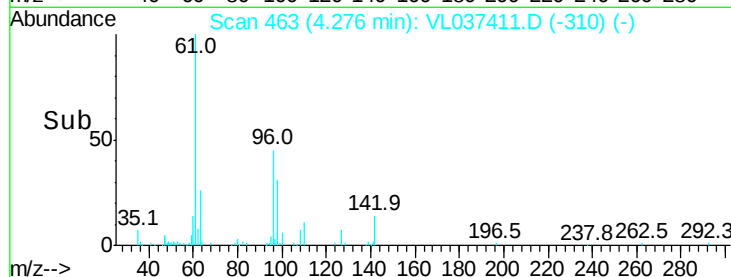
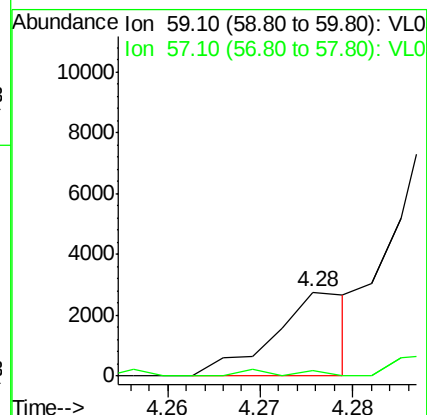
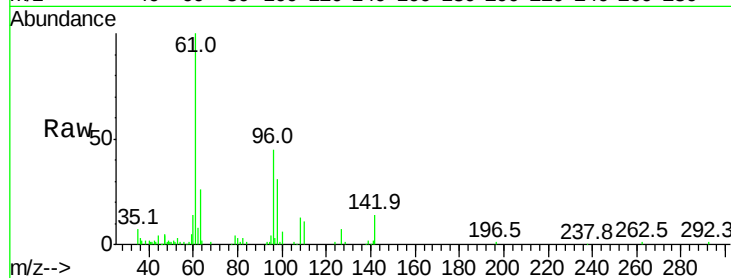
VSTDIC001

Tgt Ion: 59 Resp: 1590

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#18

1,1-Dichloroethene

Concen: 1.127 ppbv

RT: 4.29 min Scan# 466

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

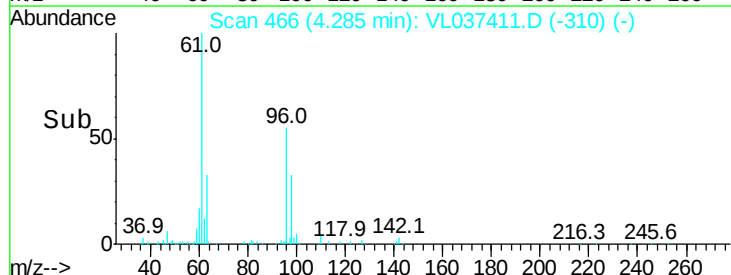
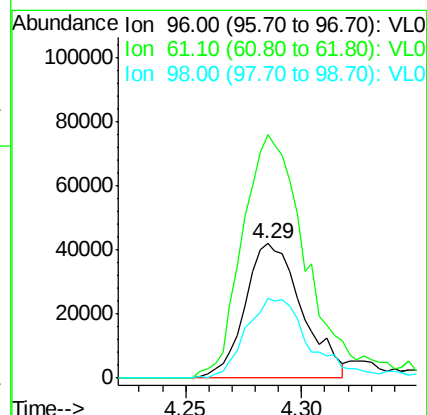
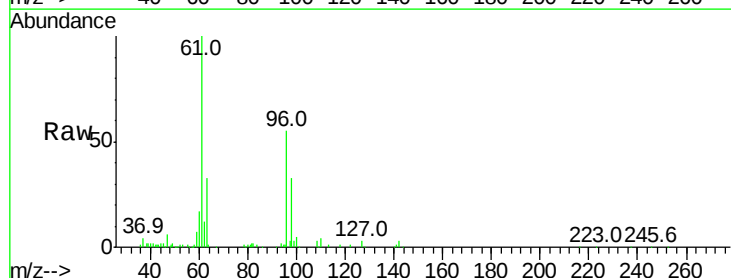
Tgt Ion: 96 Resp: 71755

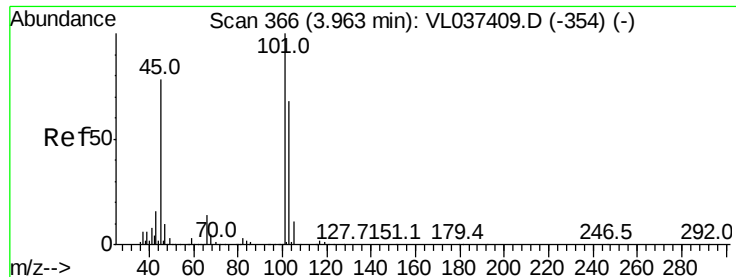
Ion Ratio Lower Upper

96 100

61 181.1 159.0 238.4

98 59.8 49.4 74.2





#19

Isopropyl Alcohol

Concen: 0.908 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.03 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

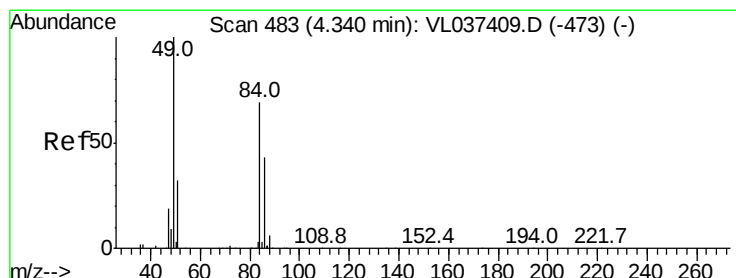
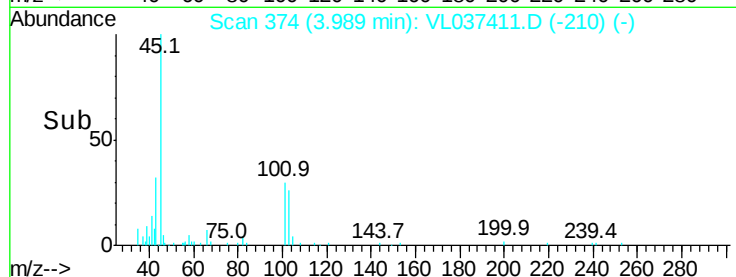
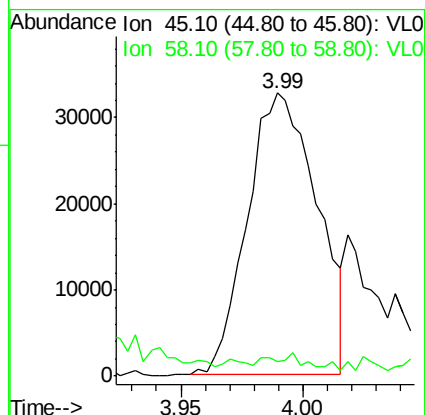
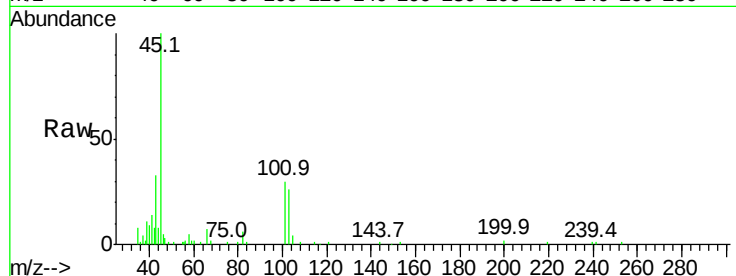
VSTDIC001

Tgt Ion: 45 Resp: 64759

Ion Ratio Lower Upper

45 100

58 7.7 2.2 3.4#



#20

Methylene Chloride

Concen: 1.174 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Tgt Ion: 84 Resp: 78917

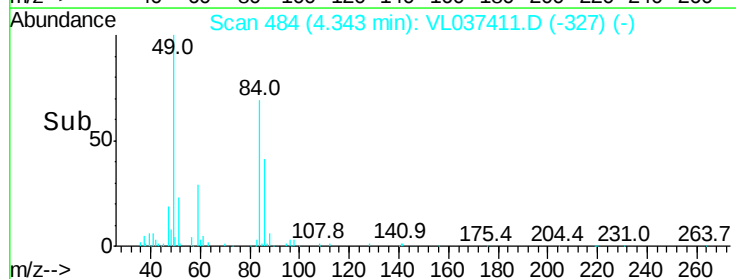
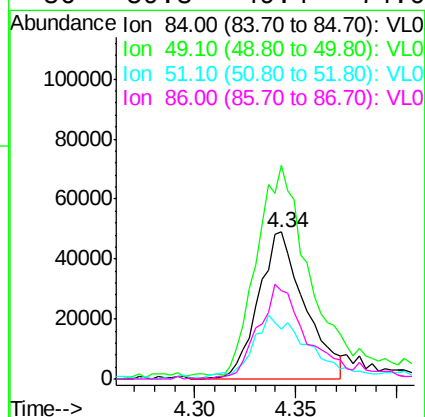
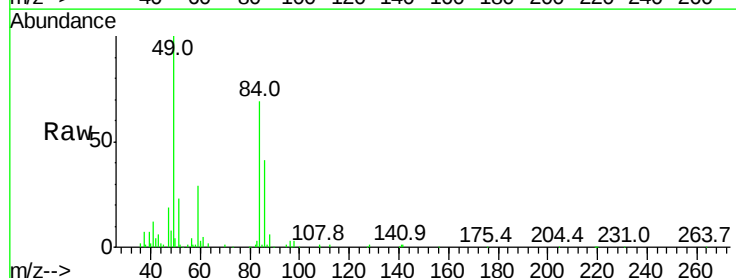
Ion Ratio Lower Upper

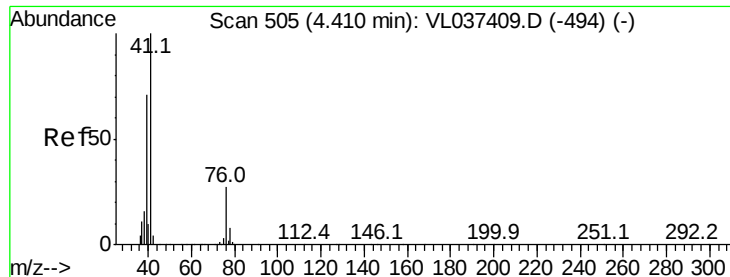
84 100

49 143.1 116.0 174.0

51 32.5 37.1 55.7#

86 59.3 49.4 74.0





#21

Allyl Chloride

Concen: 1.185 ppbv

RT: 4.41 min Scan# 505

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

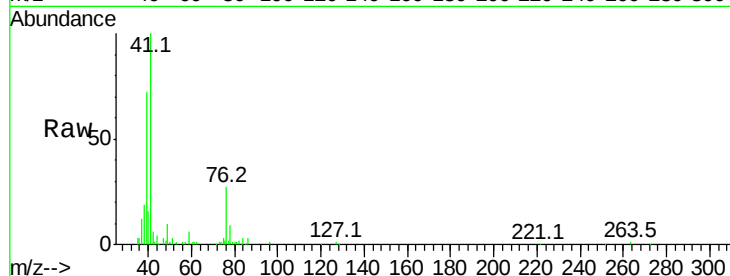
Tgt Ion: 41 Resp: 115109

Ion Ratio Lower Upper

41 100

76 29.7 23.7 35.5

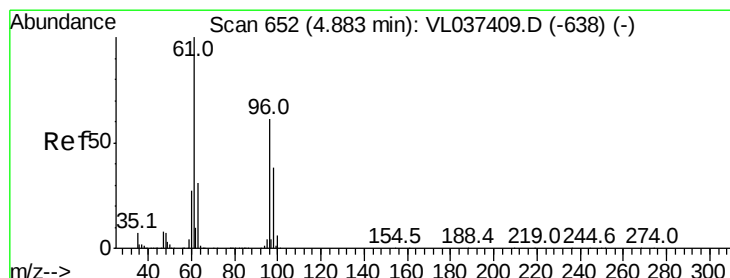
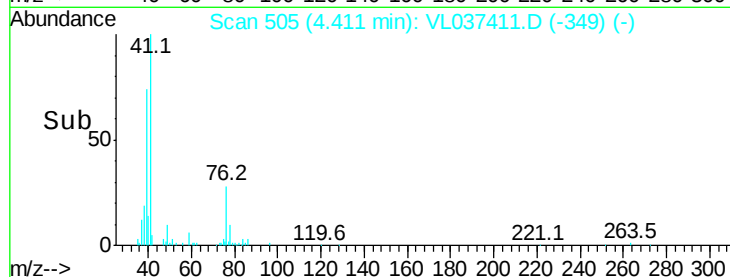
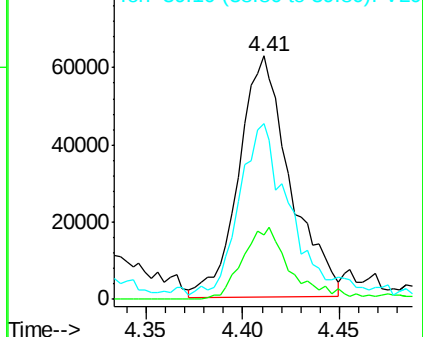
39 71.5 62.3 93.5



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: 1.067 ppbv

RT: 4.88 min Scan# 651

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

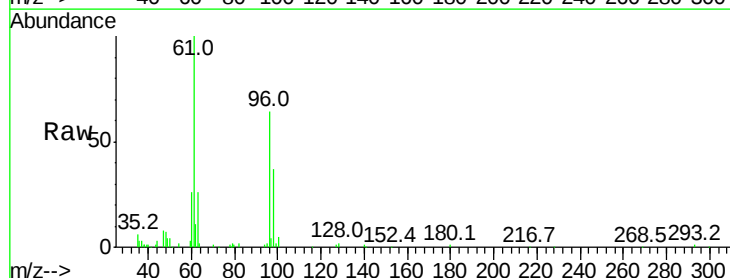
Tgt Ion: 96 Resp: 64206

Ion Ratio Lower Upper

96 100

61 155.8 131.0 196.4

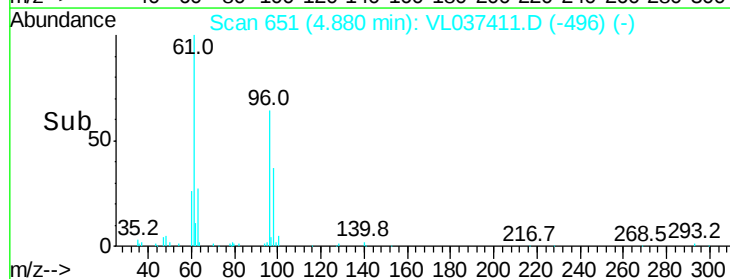
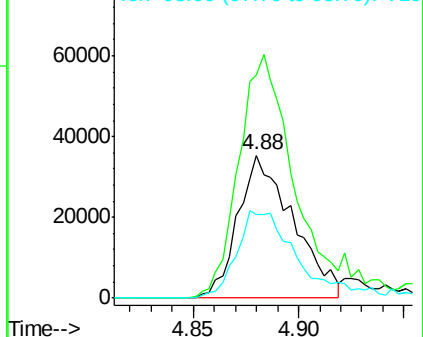
98 58.1 50.2 75.4

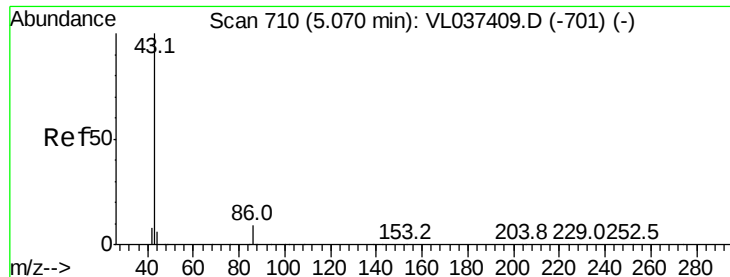


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.499 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 99295

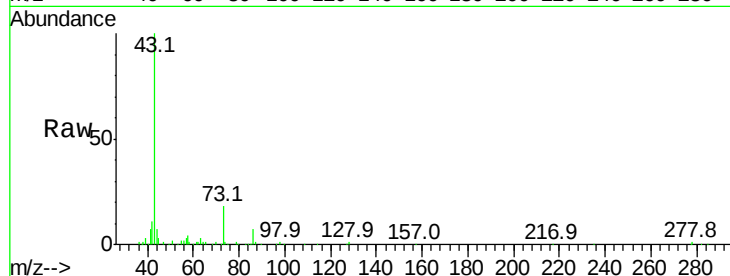
Ion Ratio Lower Upper

43 100

86 7.2 5.8 8.8

42 7.3 7.7 11.5#

44 6.6 4.0 6.0#

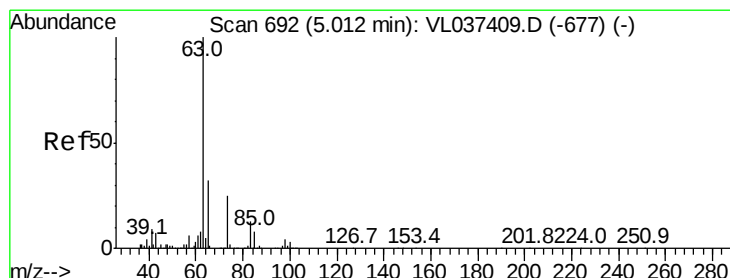
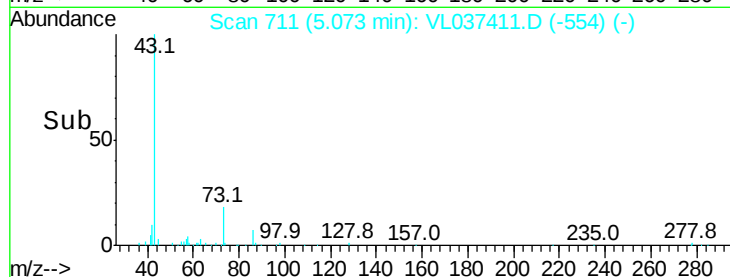
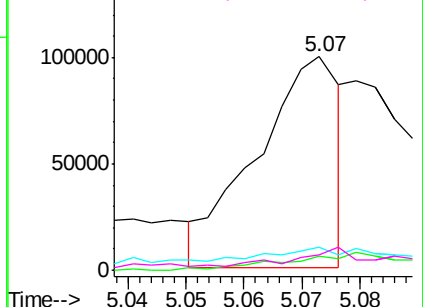


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.158 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

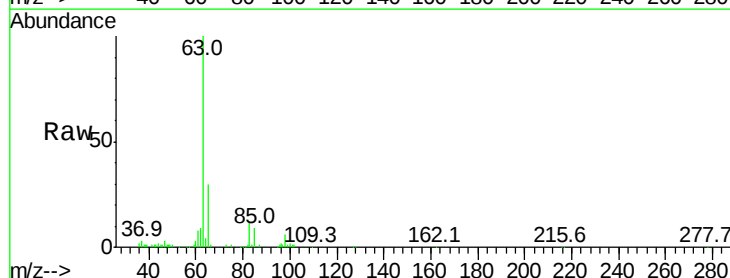
Tgt Ion: 63 Resp: 181309

Ion Ratio Lower Upper

63 100

98 5.1 2.1 6.3

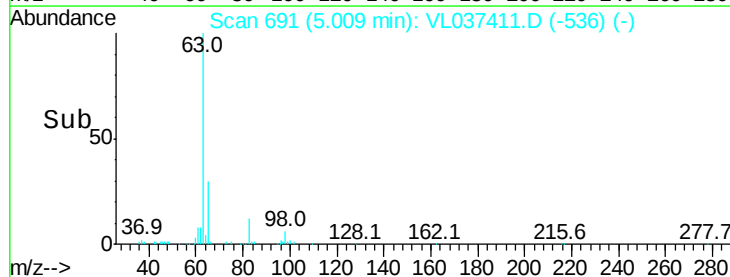
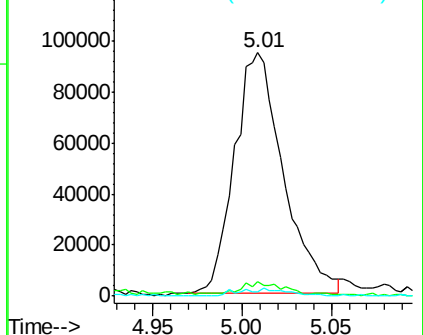
100 1.8 1.6 4.7

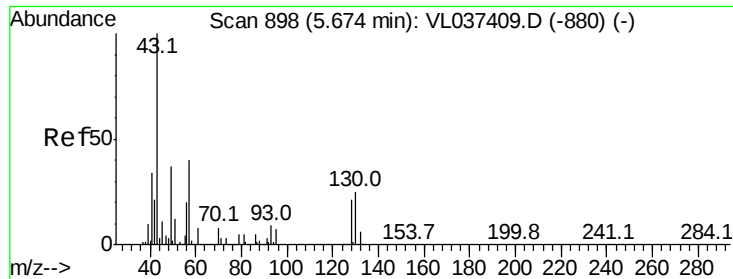


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 1.112 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 352388

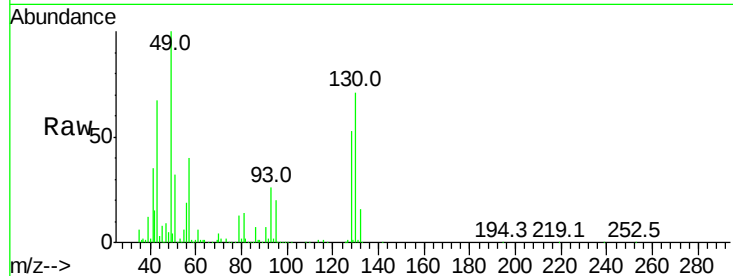
Ion Ratio Lower Upper

43 100

45 10.1 7.9 11.9

61 11.2 7.7 11.5

70 6.8 5.8 8.6



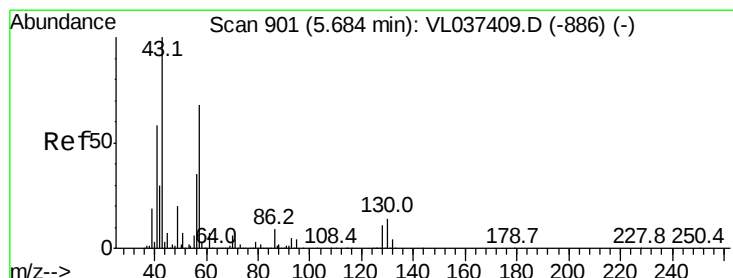
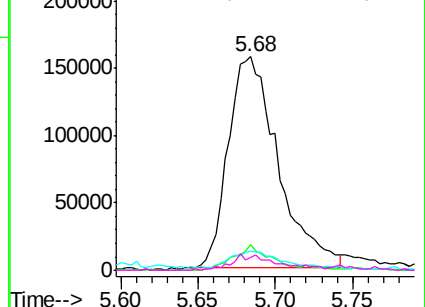
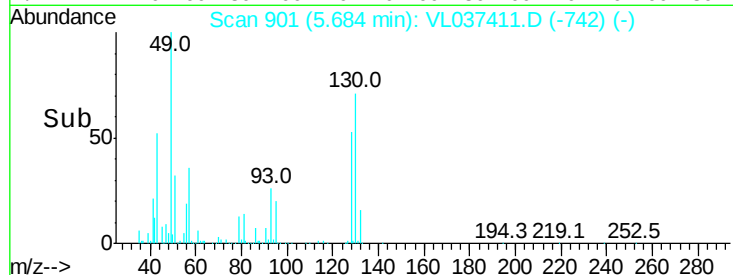
Abundance

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: 1.094 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Tgt Ion: 57 Resp: 175682

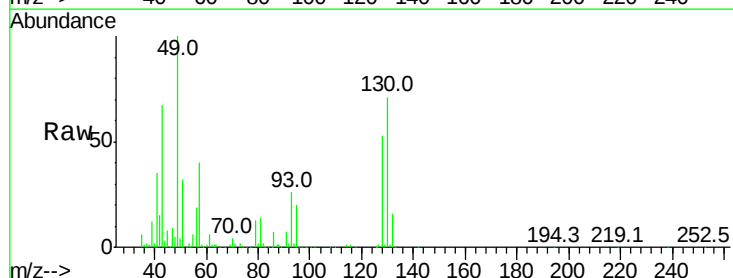
Ion Ratio Lower Upper

57 100

41 99.0 72.5 108.7

43 215.5 169.3 253.9

56 59.1 42.3 63.5



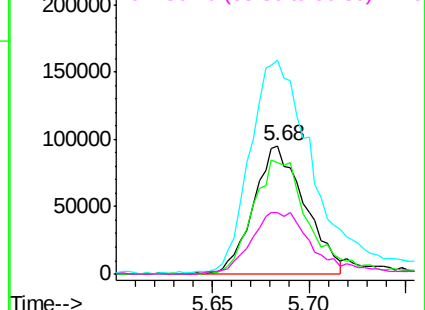
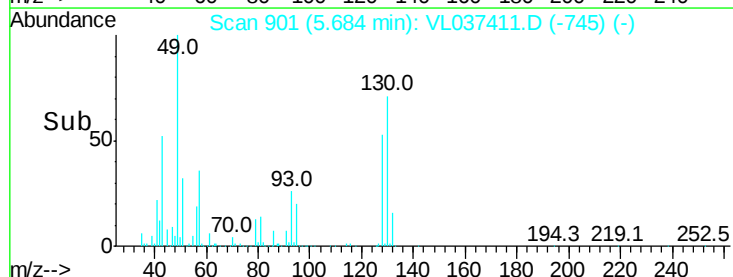
Abundance

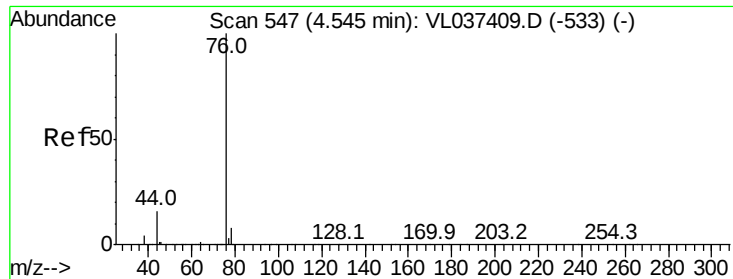
Ion 57.10 (56.80 to 57.80): VL0

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: 1.019 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

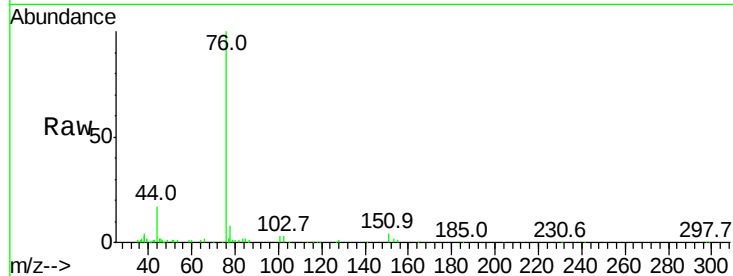
Tgt Ion: 76 Resp: 137050

Ion Ratio Lower Upper

76 100

44 19.8 14.4 21.6

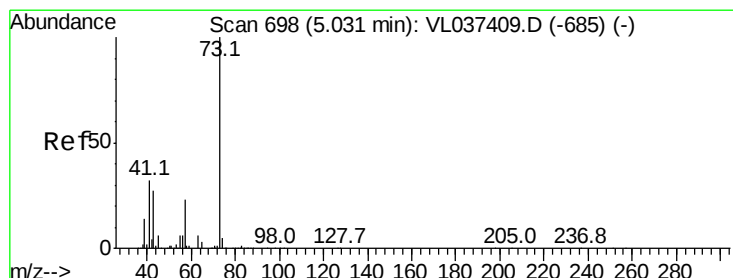
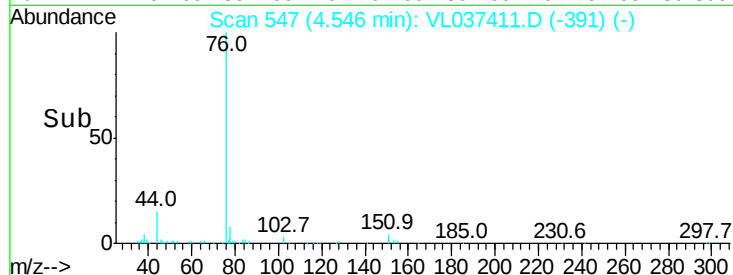
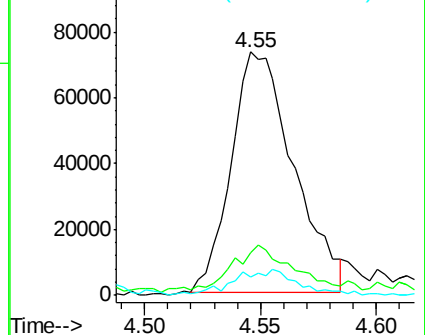
78 11.2 8.0 12.0



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: 1.176 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.01 min

Lab File: VL037411.D

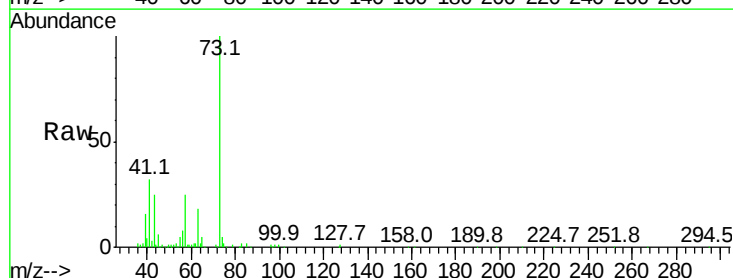
Acq: 12 Aug 2021 12:18

Tgt Ion: 73 Resp: 201708

Ion Ratio Lower Upper

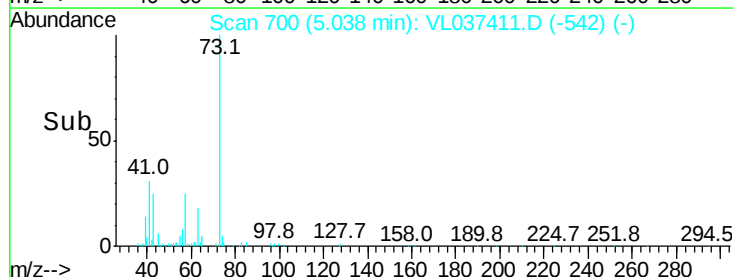
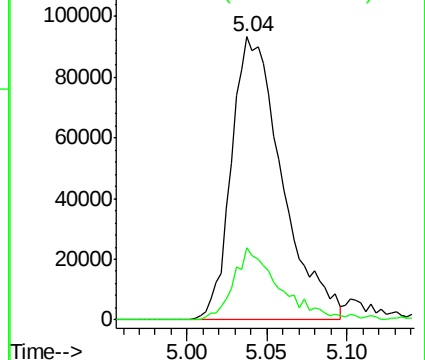
73 100

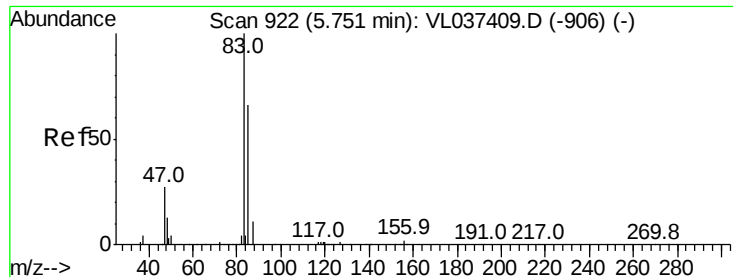
57 23.9 19.0 28.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 1.064 ppbv

RT: 5.74 min Scan# 920

Delta R.T. -0.01 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

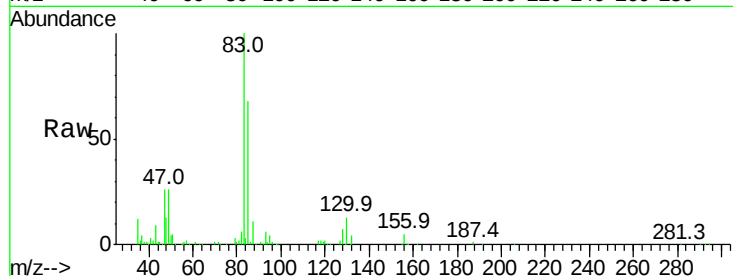
VSTDIC001

Tgt Ion: 83 Resp: 244856

Ion Ratio Lower Upper

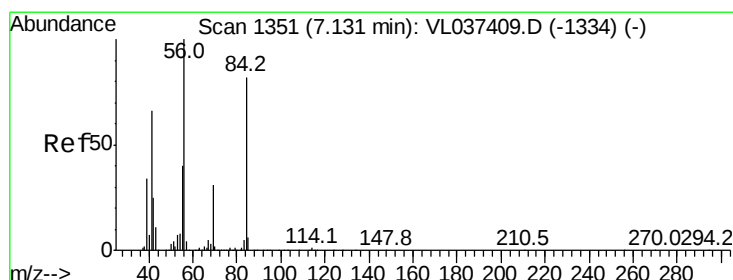
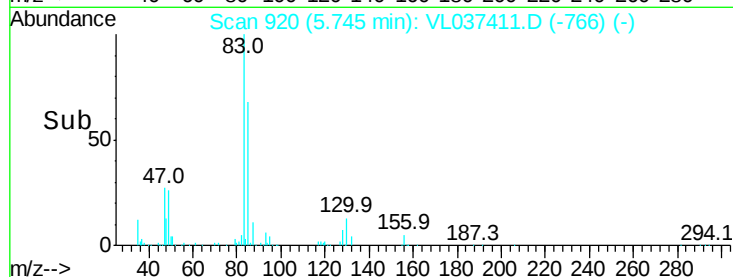
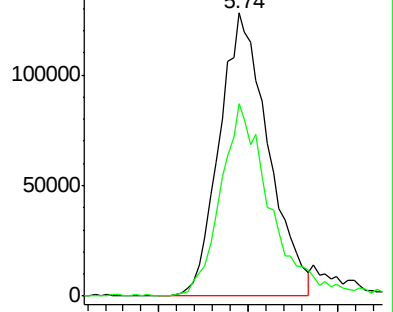
83 100

85 68.1 52.4 78.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 1.140 ppbv

RT: 7.13 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

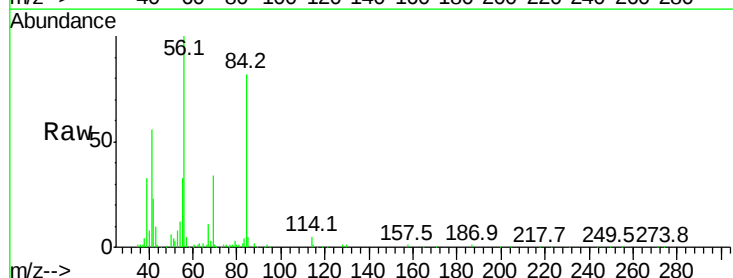
Tgt Ion: 84 Resp: 151537

Ion Ratio Lower Upper

84 100

56 188.9 109.6 164.4#

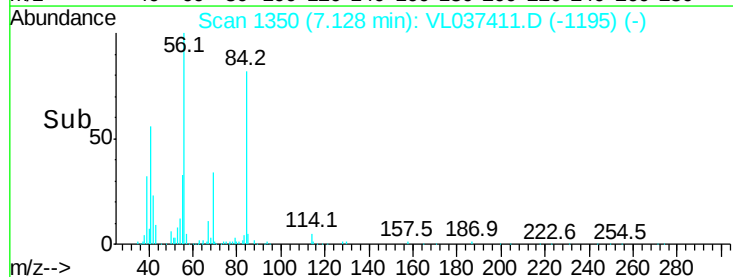
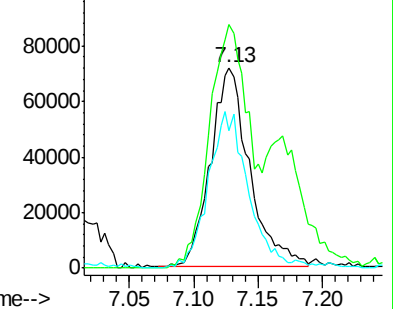
41 81.7 66.6 99.8

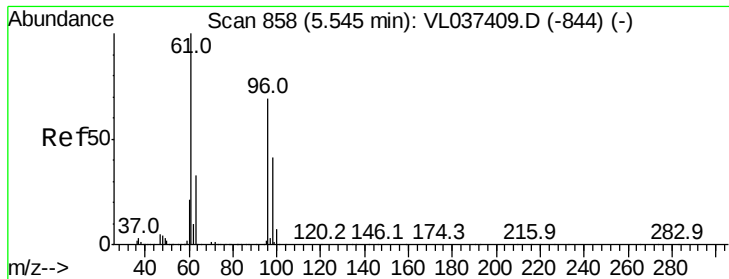


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 1.026 ppbv

RT: 5.55 min Scan# 858

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

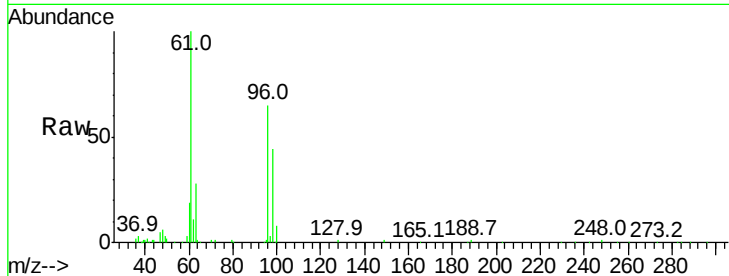
Tgt Ion: 61 Resp: 147597

Ion Ratio Lower Upper

61 100

96 64.9 55.5 83.3

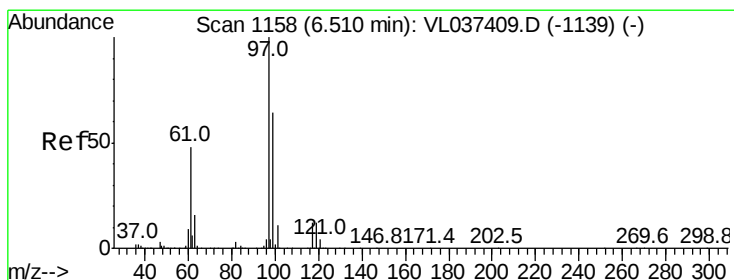
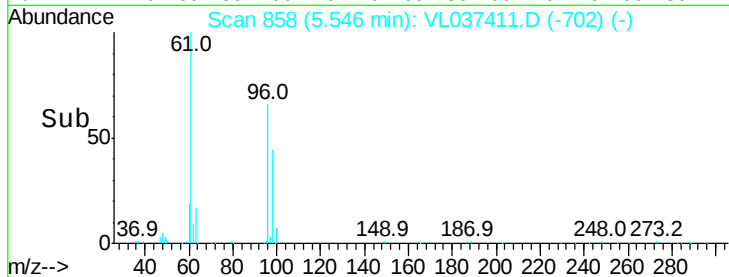
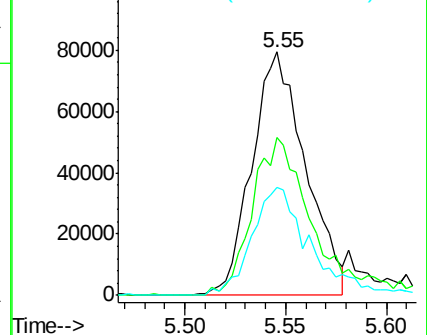
98 44.4 33.1 49.7



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 1.057 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

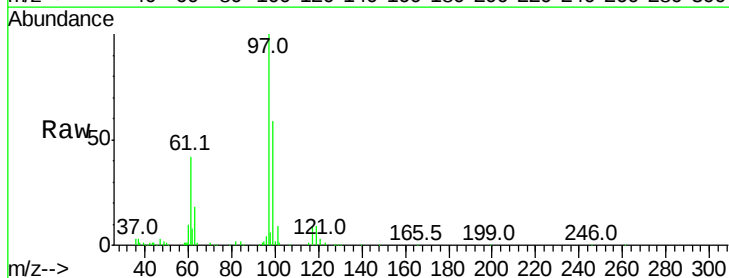
Tgt Ion: 97 Resp: 236024

Ion Ratio Lower Upper

97 100

99 69.2 52.3 78.5

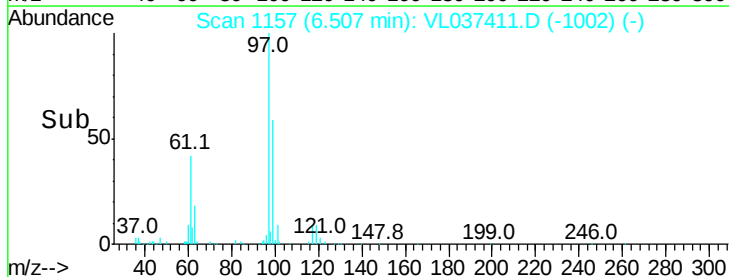
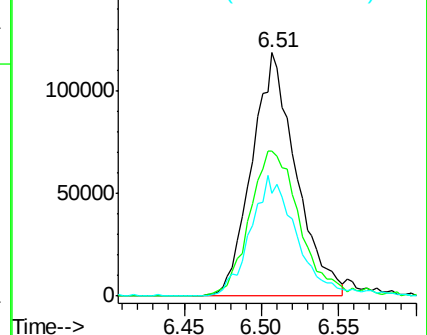
61 52.3 40.1 60.1

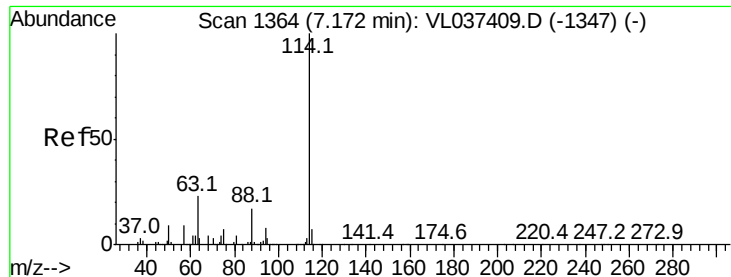


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.00 min

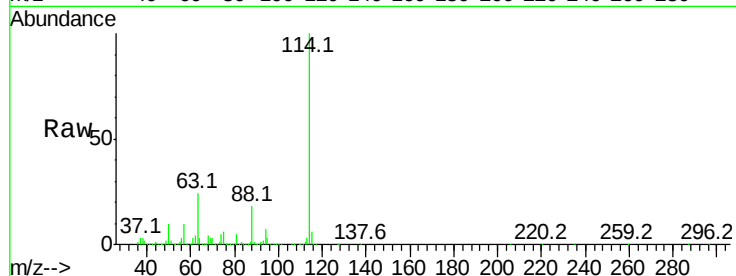
Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 114 Resp: 4078497

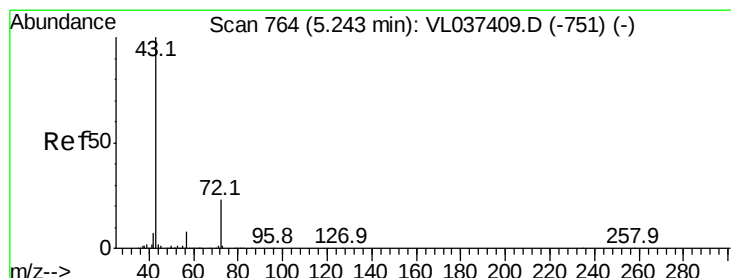
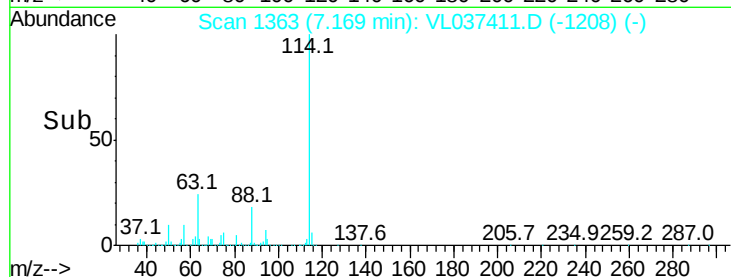
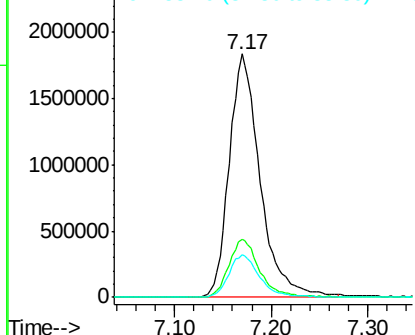
Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.4	29.2
88	17.7	14.2	21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.495 ppbv

RT: 5.25 min Scan# 766

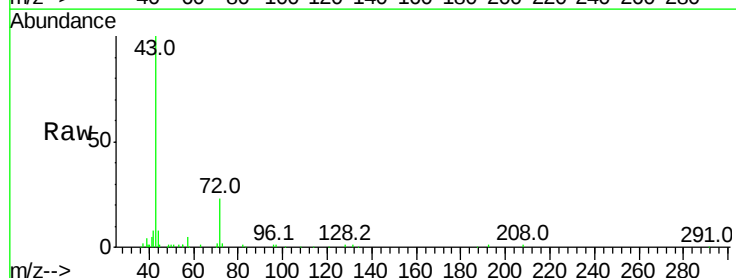
Delta R.T. 0.01 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

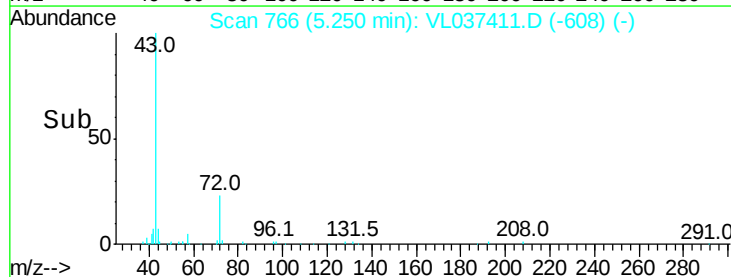
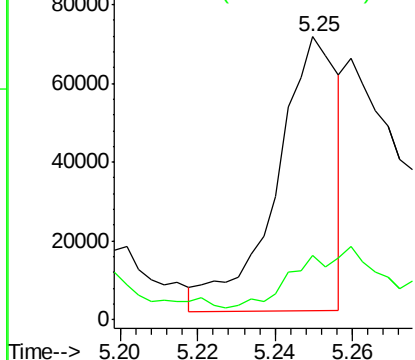
Tgt Ion: 43 Resp: 76719

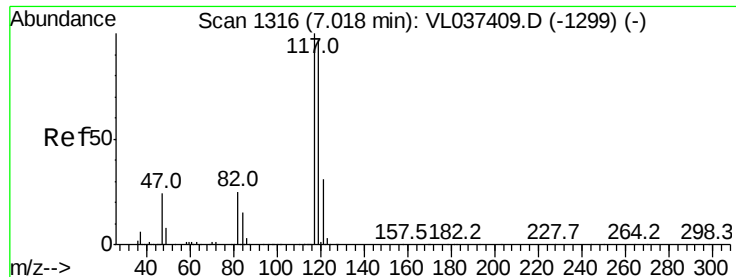
Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.7	26.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.566 ppbv

RT: 7.02 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

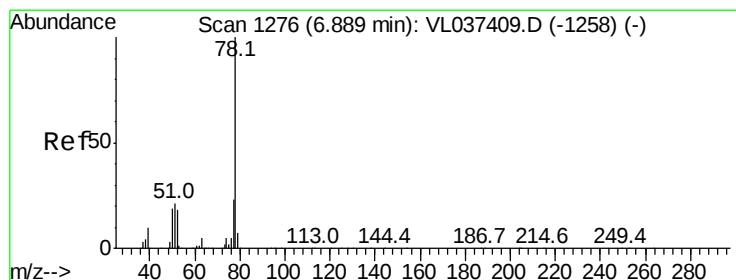
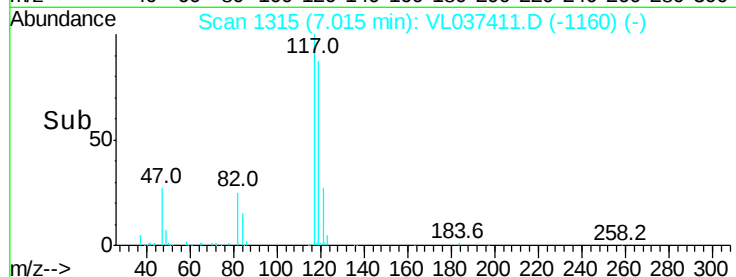
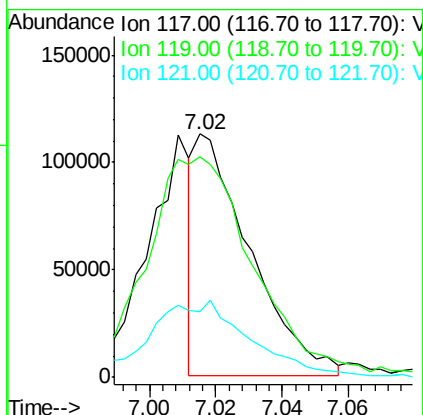
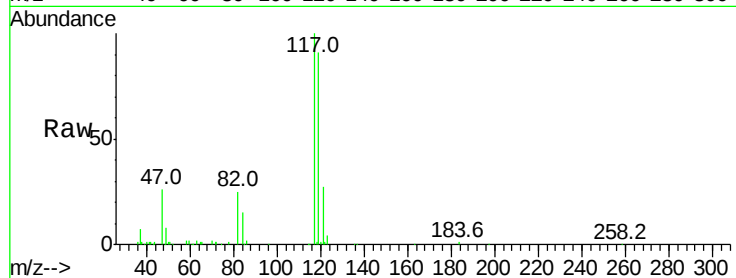
Tgt Ion: 117 Resp: 128647

Ion Ratio Lower Upper

117 100

119 88.4 77.5 116.3

121 25.9 24.7 37.1



#36

Benzene

Concen: 1.106 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

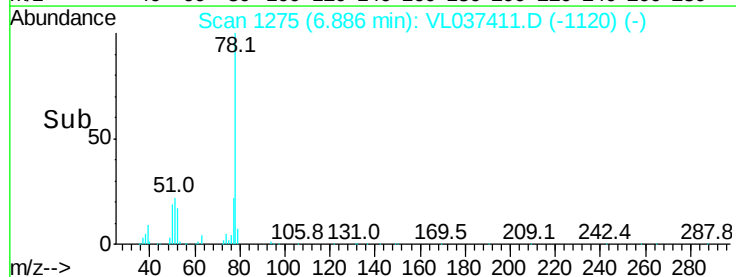
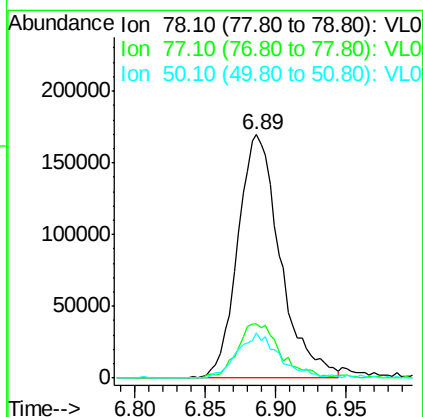
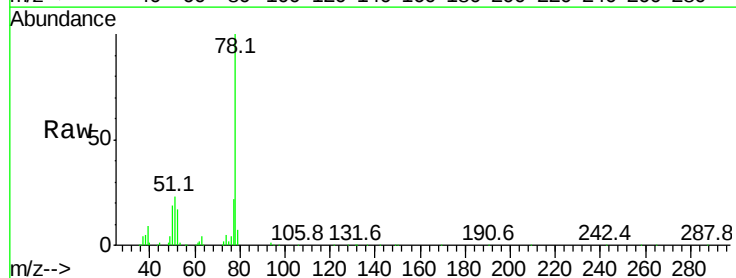
Tgt Ion: 78 Resp: 357811

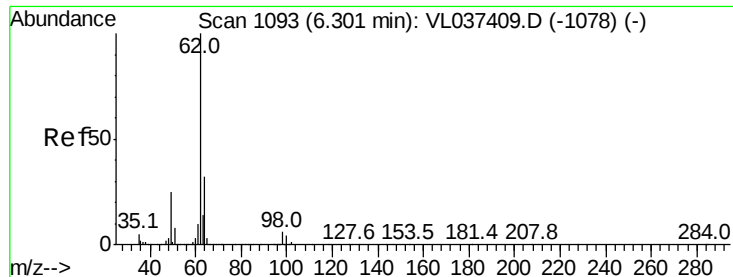
Ion Ratio Lower Upper

78 100

77 22.2 18.6 27.8

50 18.8 14.9 22.3





#37

1,2-Dichloroethane

Concen: 1.038 ppbv

RT: 6.30 min Scan# 1093

Delta R.T. 0.00 min

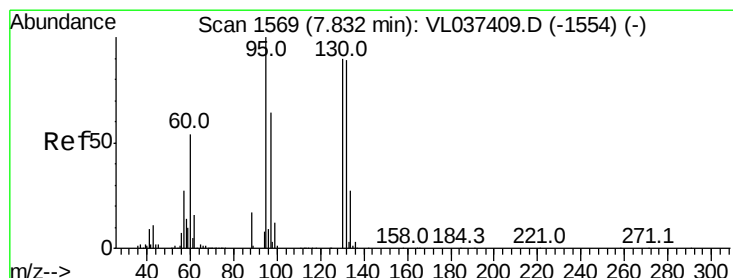
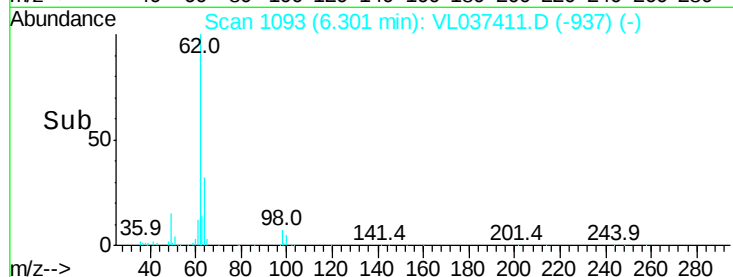
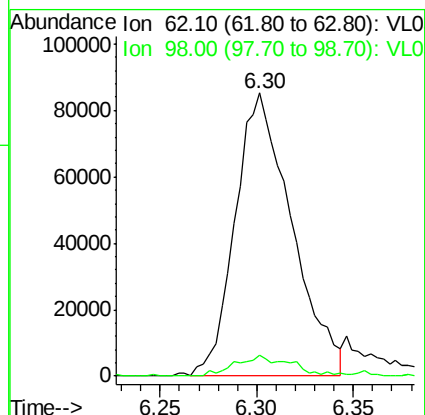
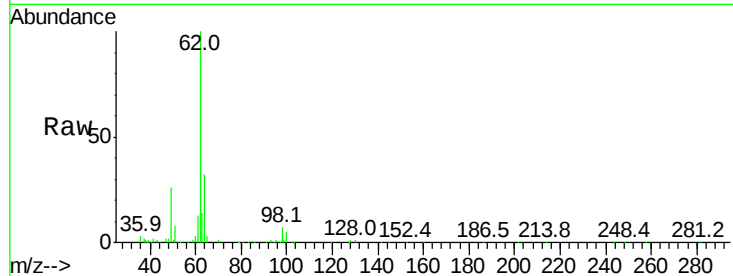
Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 62 Resp: 171815

Ion	Ratio	Lower	Upper
62	100		
98	8.1	5.4	8.2



#38

Trichloroethene

Concen: 0.964 ppbv

RT: 7.83 min Scan# 1568

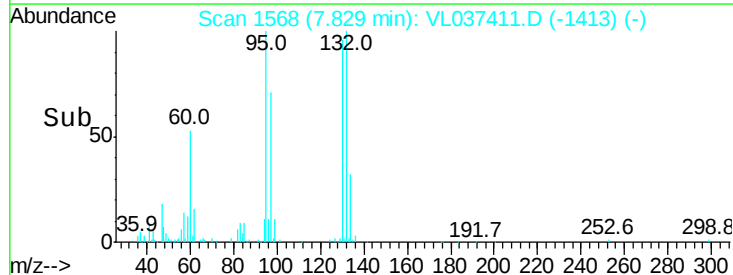
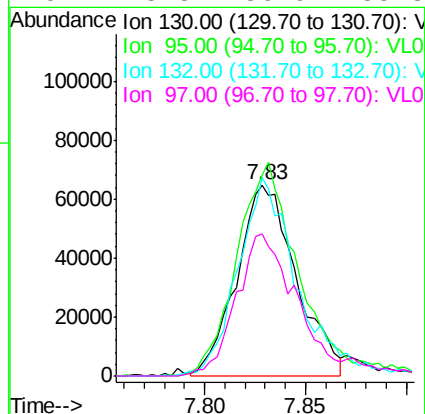
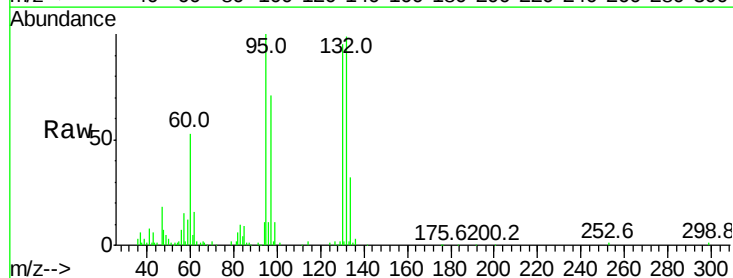
Delta R.T. -0.00 min

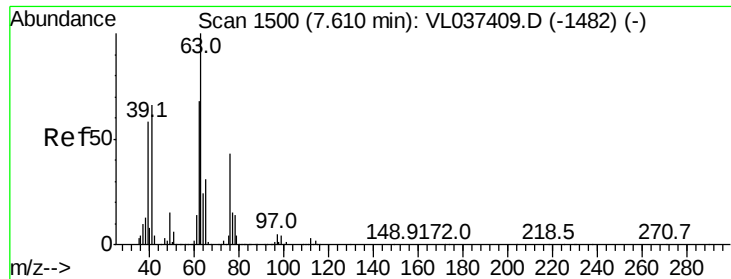
Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Tgt Ion: 130 Resp: 132894

Ion	Ratio	Lower	Upper
130	100		
95	104.1	88.6	132.8
132	102.2	79.2	118.8
97	73.8	56.9	85.3





#39

1,2-Dichloropropane

Concen: 1.127 ppbv

RT: 7.61 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

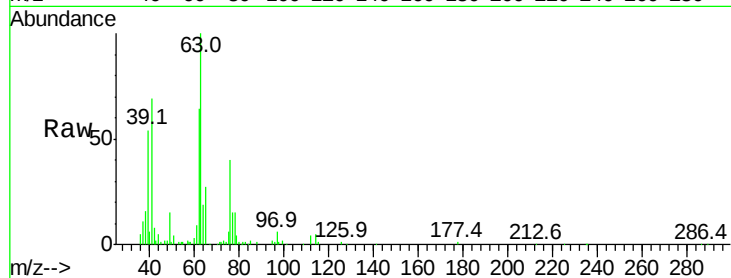
Tgt Ion: 63 Resp: 133297

Ion Ratio Lower Upper

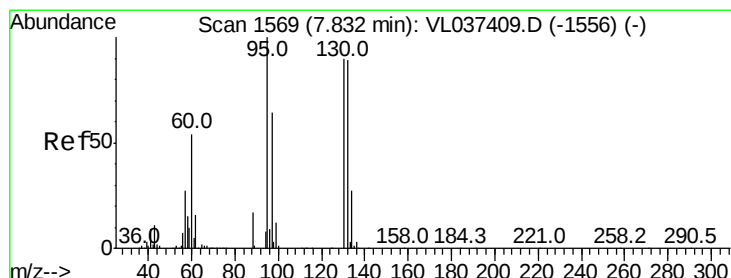
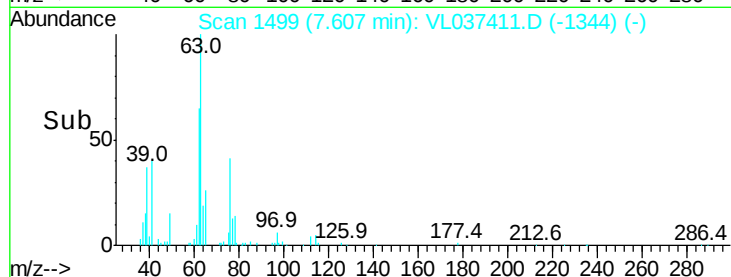
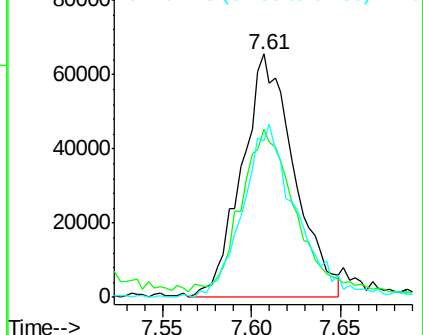
63 100

41 67.2 53.0 79.6

62 64.0 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: 0.011 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Tgt Ion: 88 Resp: 356

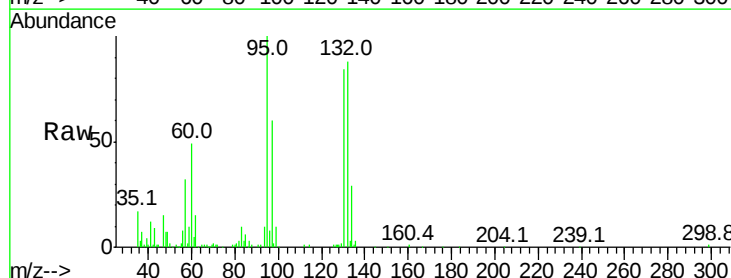
Ion Ratio Lower Upper

88 100

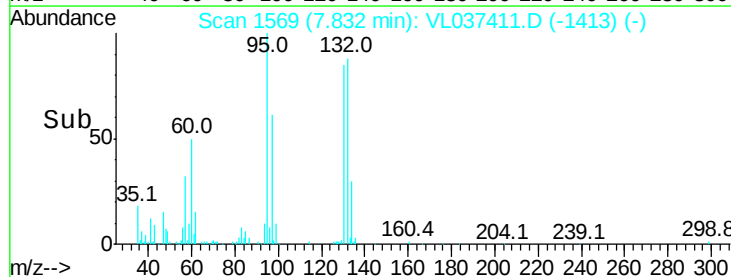
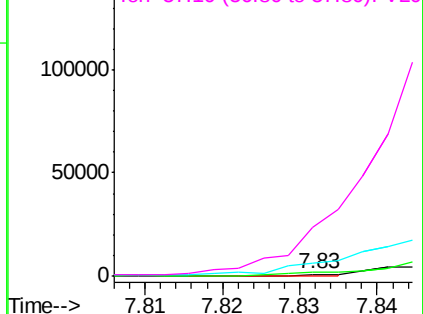
58 0.0 0.0 0.0

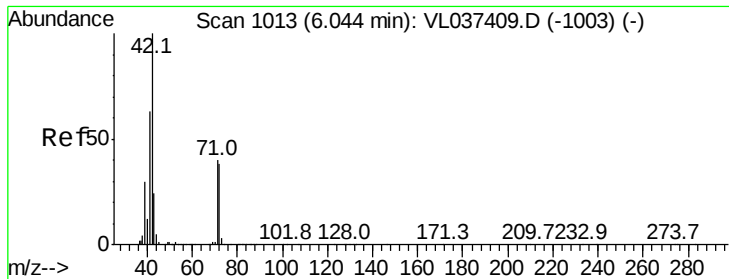
43 0.0 0.0 0.0

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: 0.428 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. 0.02 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

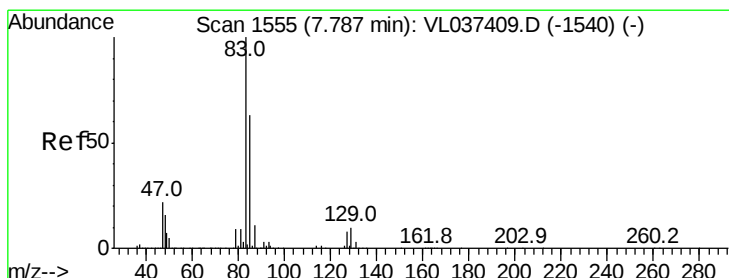
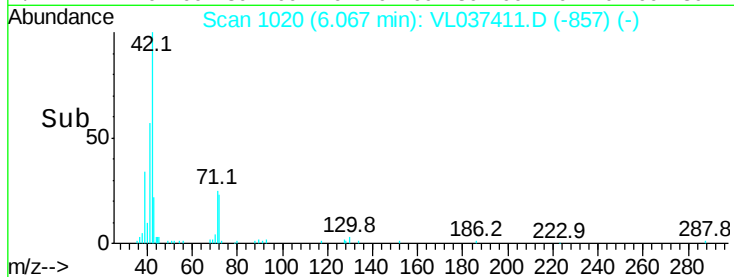
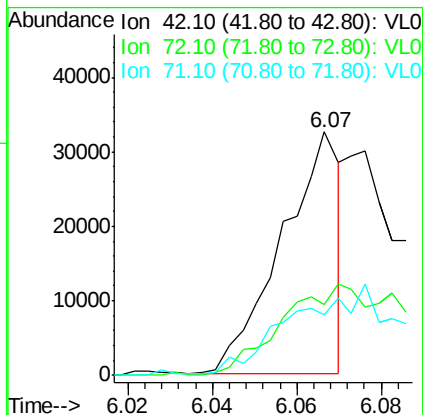
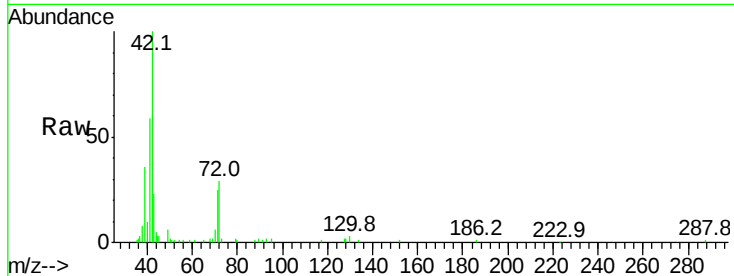
Tgt Ion: 42 Resp: 31165

Ion Ratio Lower Upper

42 100

72 84.0 33.5 50.3#

71 0.0 32.6 48.8#



#42

Bromodichloromethane

Concen: 1.040 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

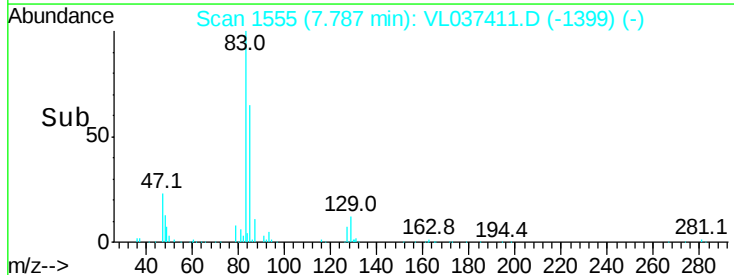
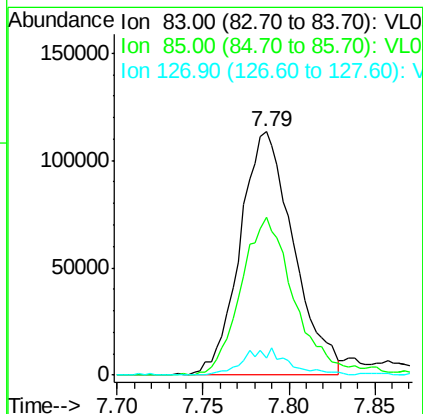
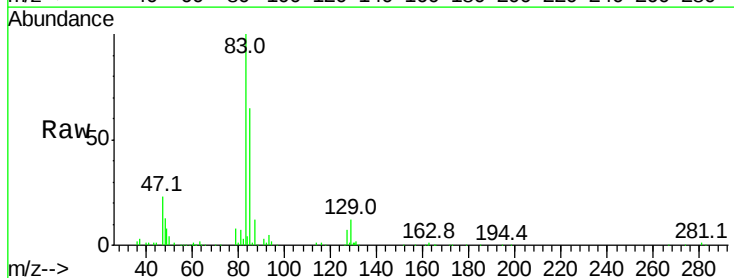
Tgt Ion: 83 Resp: 243425

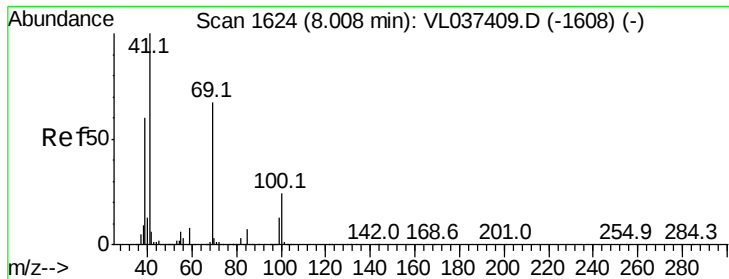
Ion Ratio Lower Upper

83 100

85 64.5 50.2 75.2

127 7.3 6.6 9.8





#43

Methyl Methacrylate

Concen: 0.444 ppbv

RT: 8.01 min Scan# 1625

Delta R.T. 0.00 min

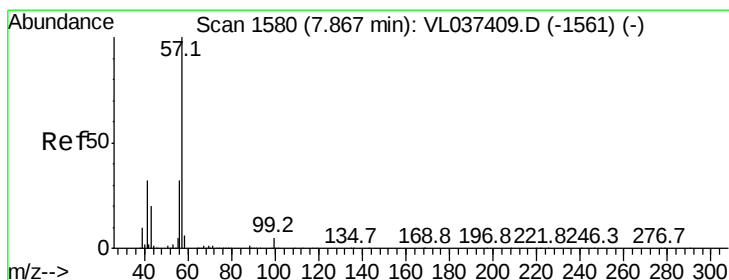
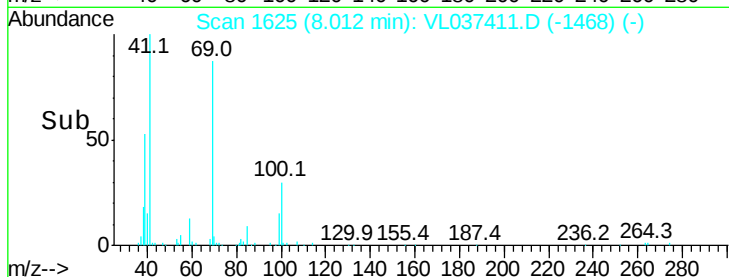
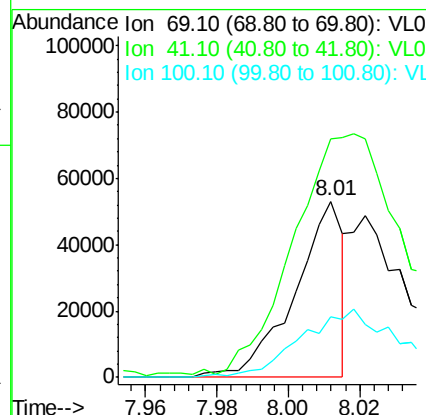
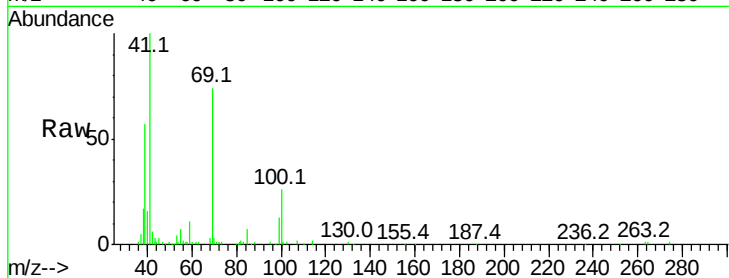
Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 69 Resp: 49988

Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.1	177.1#
100	0.0	27.6	41.4#



#44

2,2,4-Trimethylpentane

Concen: 1.138 ppbv

RT: 7.87 min Scan# 1580

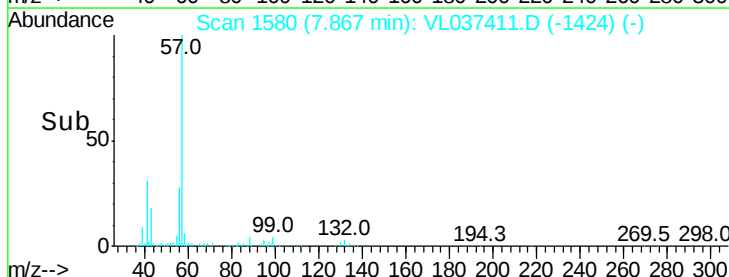
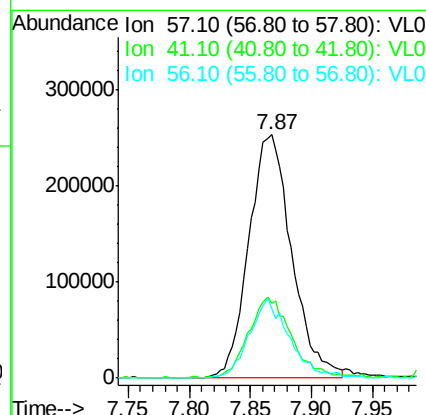
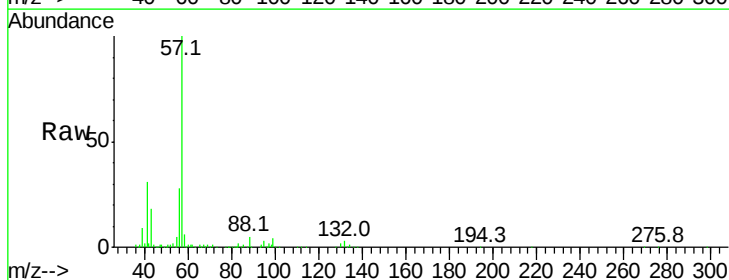
Delta R.T. 0.00 min

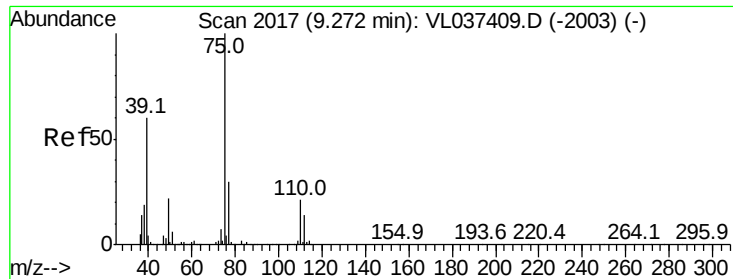
Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Tgt Ion: 57 Resp: 614627

Ion	Ratio	Lower	Upper
57	100		
41	33.9	26.4	39.6
56	30.7	25.0	37.4





#45

t-1,3-Dichloropropene

Concen: 0.846 ppbv

RT: 9.28 min Scan# 2018

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

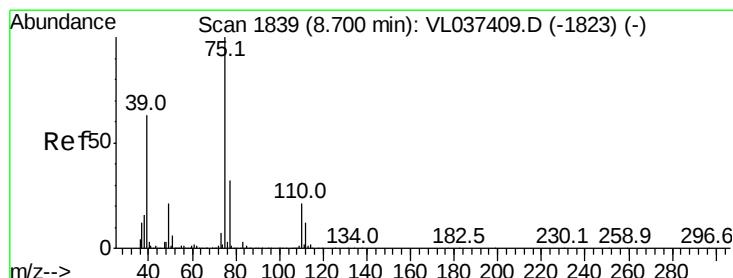
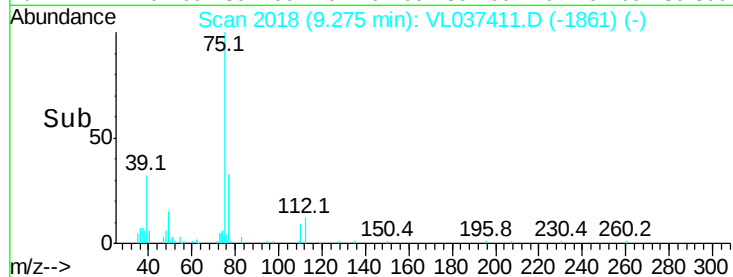
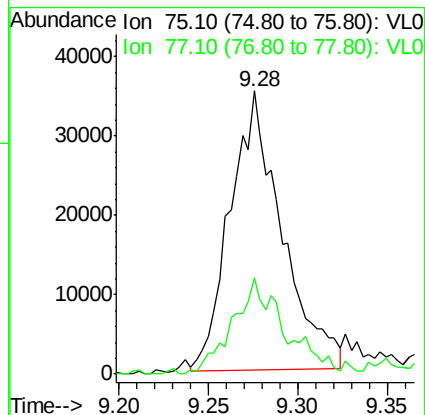
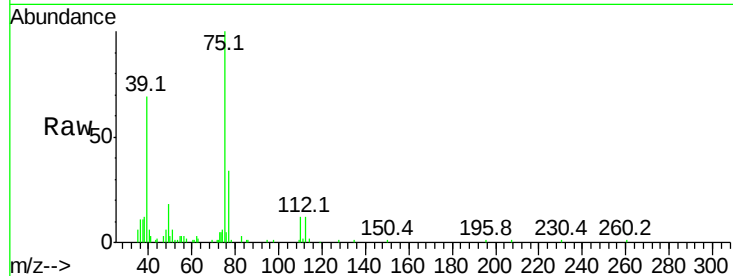
VSTDIC001

Tgt Ion: 75 Resp: 71516

Ion Ratio Lower Upper

75 100

77 34.2 24.2 36.2



#46

cis-1,3-Dichloropropene

Concen: 0.944 ppbv

RT: 8.70 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

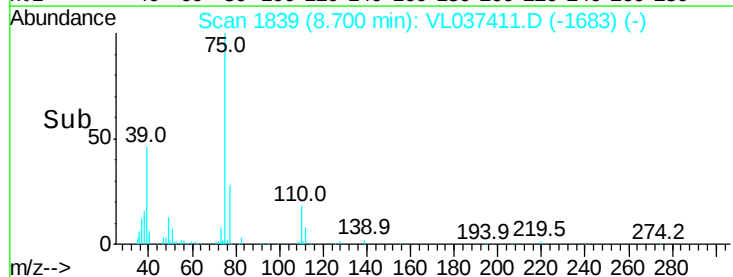
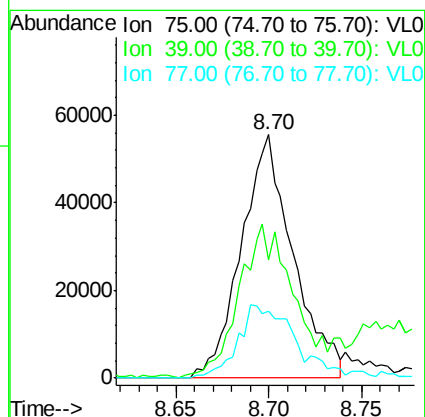
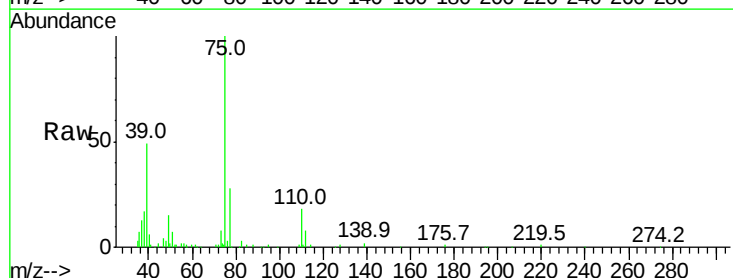
Tgt Ion: 75 Resp: 107950

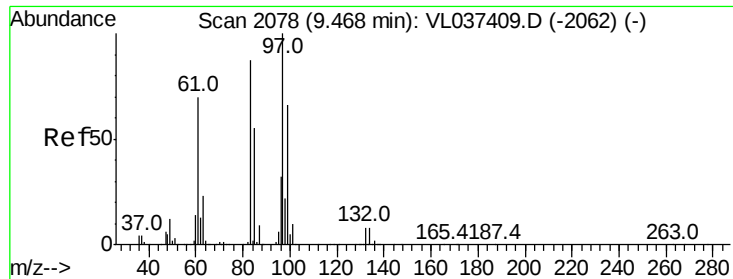
Ion Ratio Lower Upper

75 100

39 47.0 50.1 75.1#

77 27.7 25.8 38.8





#47

1,1,2-Trichloroethane

Concen: 0.977 ppbv

RT: 9.47 min Scan# 2078

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 130339

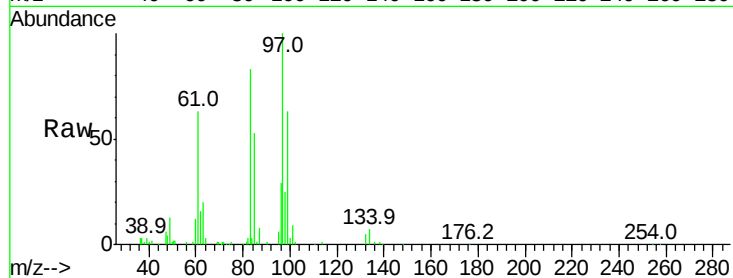
Ion Ratio Lower Upper

97 100

83 82.9 69.5 104.3

85 54.1 43.8 65.8

99 62.6 53.0 79.4

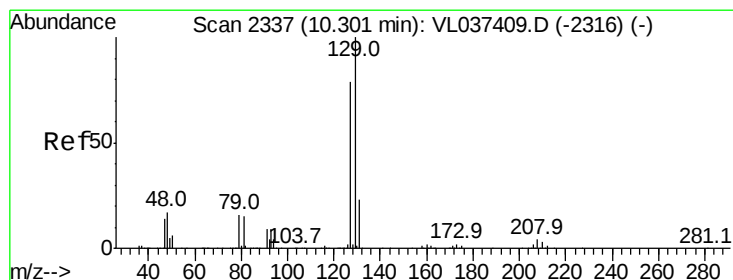
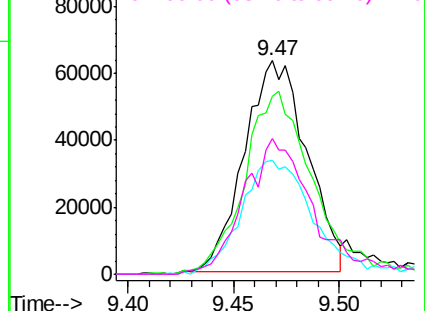
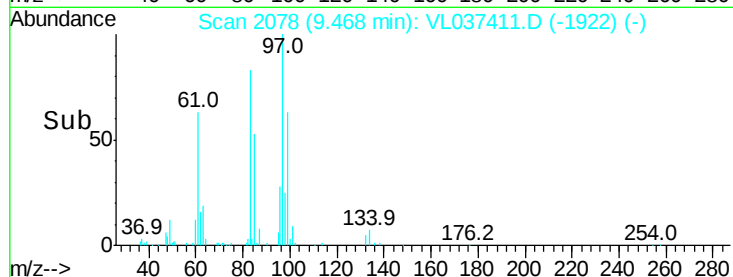


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.966 ppbv

RT: 10.30 min Scan# 2336

Delta R.T. -0.00 min

Lab File: VL037411.D

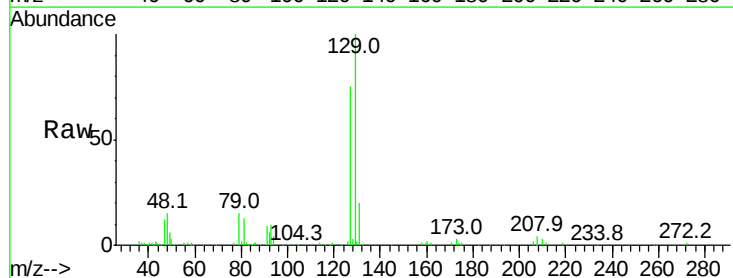
Acq: 12 Aug 2021 12:18

Tgt Ion: 129 Resp: 190018

Ion Ratio Lower Upper

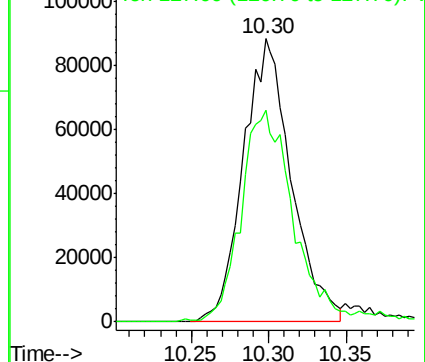
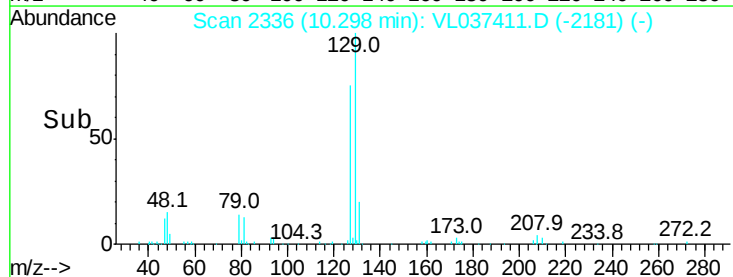
129 100

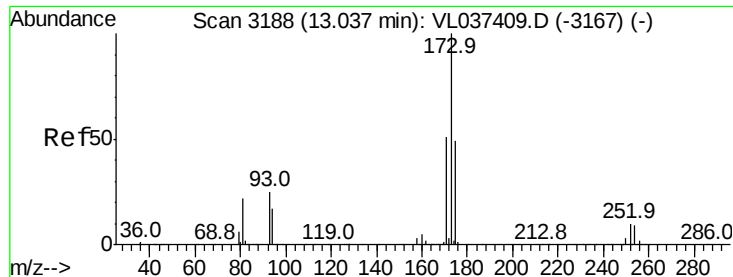
127 83.4 39.6 118.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.718 ppbv

RT: 13.04 min Scan# 3188

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

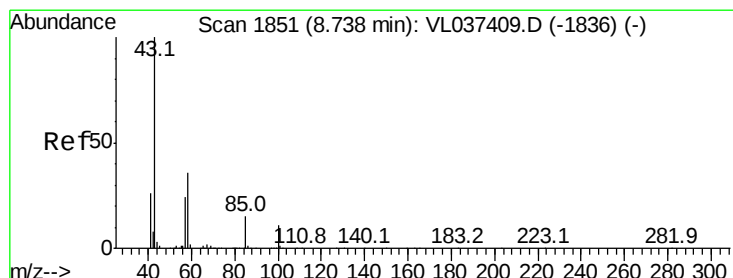
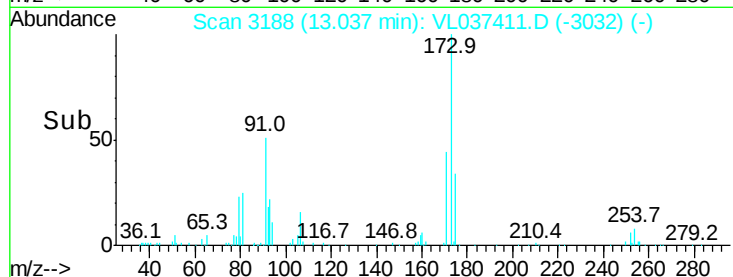
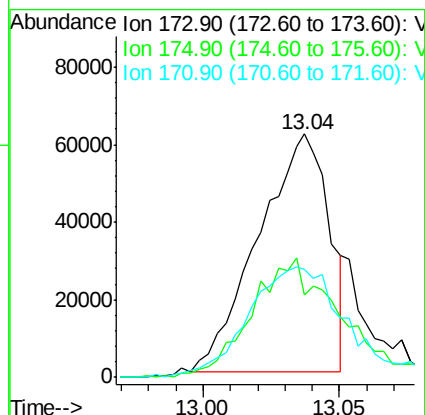
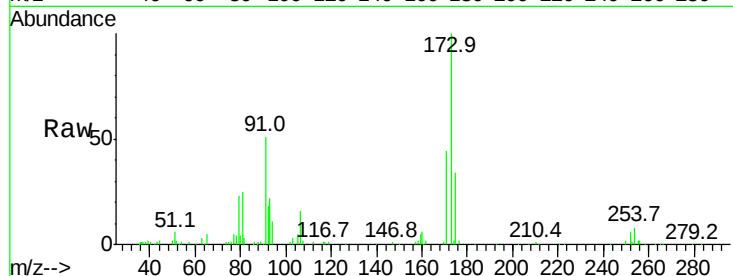
Tgt Ion:173 Resp: 110965

Ion Ratio Lower Upper

173 100

175 66.1 39.9 59.9#

171 70.4 41.4 62.2#



#50

4-Methyl-2-Pentanone

Concen: 0.491 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. 0.02 min

Lab File: VL037411.D

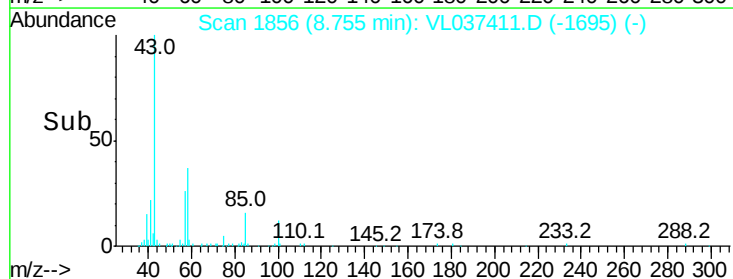
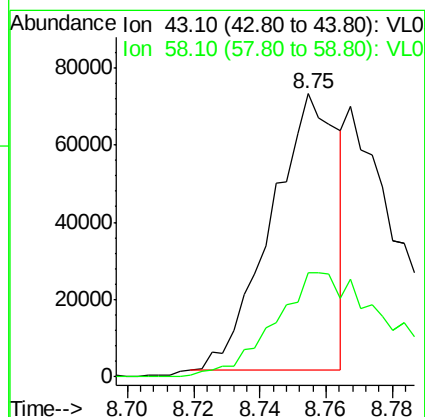
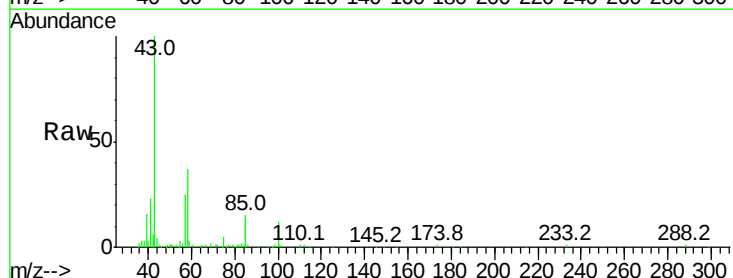
Acq: 12 Aug 2021 12:18

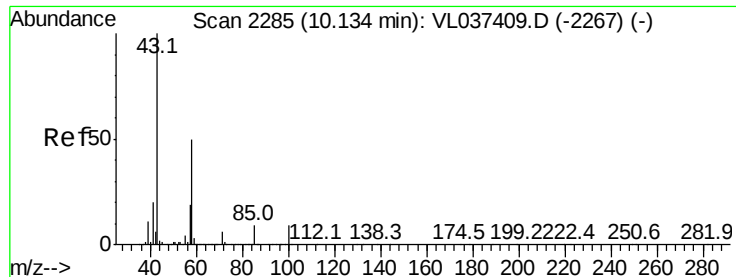
Tgt Ion: 43 Resp: 99454

Ion Ratio Lower Upper

43 100

58 77.1 29.9 44.9#

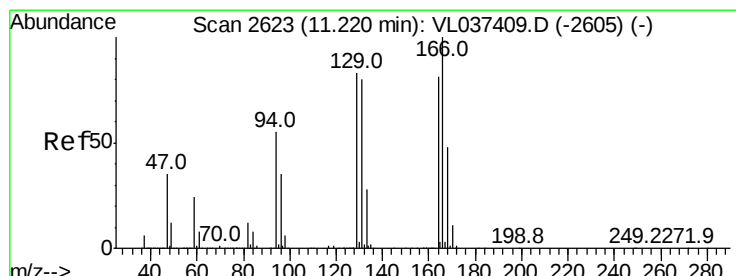
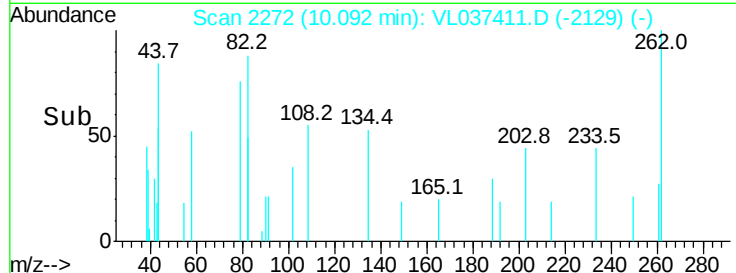
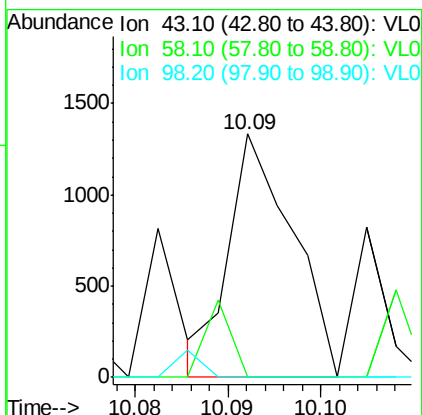
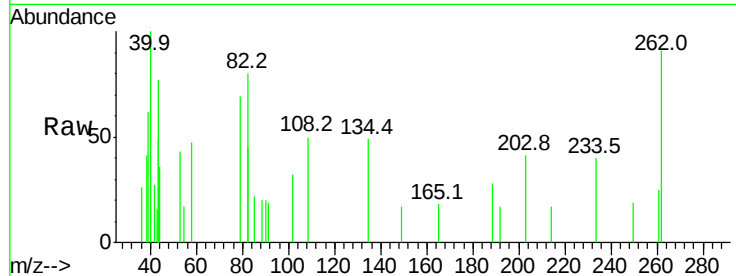




#51
2-Hexanone
Concen: 0.007 ppbv
RT: 10.09 min Scan# 2272
Delta R.T. -0.04 min
Lab File: VL037411.D
Acq: 12 Aug 2021 12:18

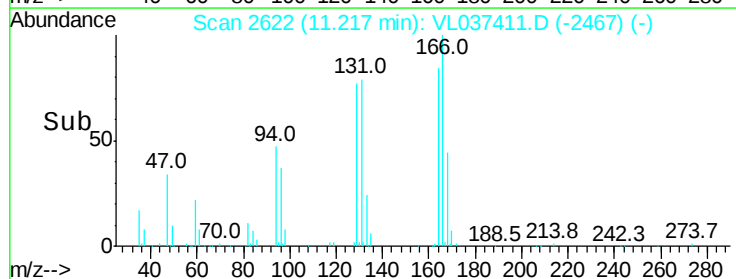
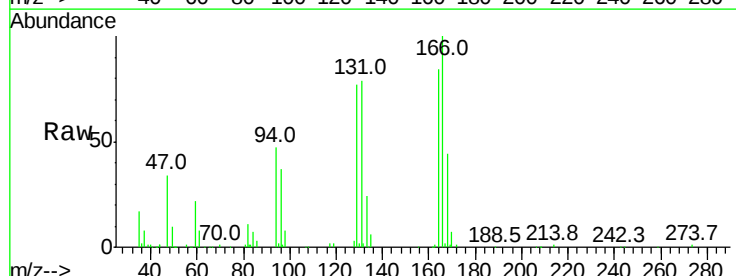
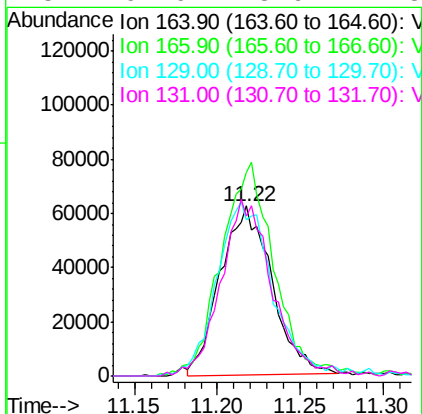
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

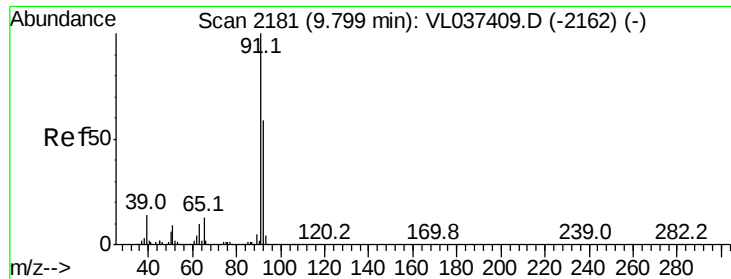
Tgt Ion: 43 Resp: 637
Ion Ratio Lower Upper
43 100
58 0.0 39.9 59.9#
98 85.4 0.2 0.2#



#52
Tetrachloroethene
Concen: 1.018 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL037411.D
Acq: 12 Aug 2021 12:18

Tgt Ion: 164 Resp: 134269
Ion Ratio Lower Upper
164 100
166 118.4 98.6 147.8
129 89.3 82.0 123.0
131 92.9 78.6 117.8





#53

Toluene

Concen: 0.574 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

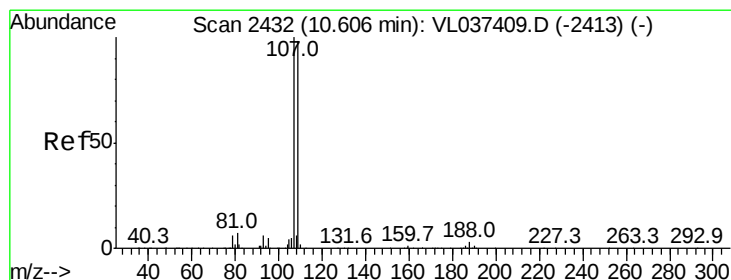
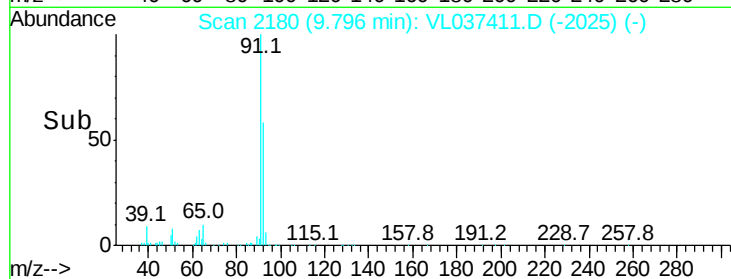
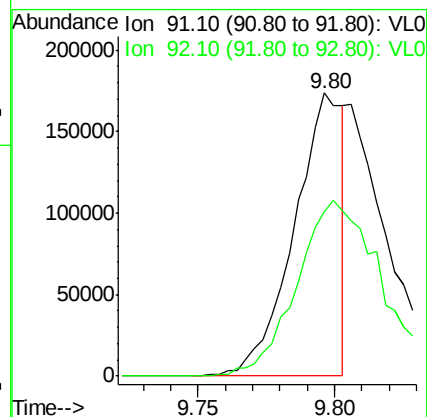
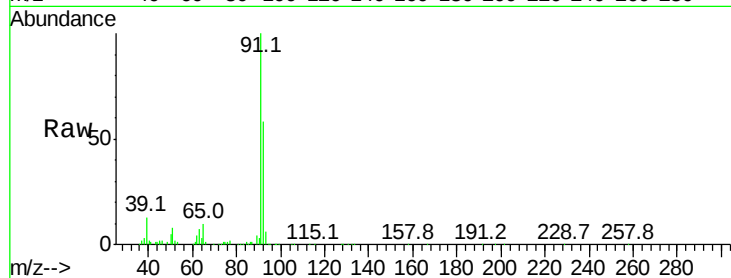
VSTDIC001

Tgt Ion: 91 Resp: 215430

Ion Ratio Lower Upper

91 100

92 113.9 49.0 73.6#



#54

1,2-Dibromoethane

Concen: 0.993 ppbv

RT: 10.60 min Scan# 2430

Delta R.T. -0.01 min

Lab File: VL037411.D

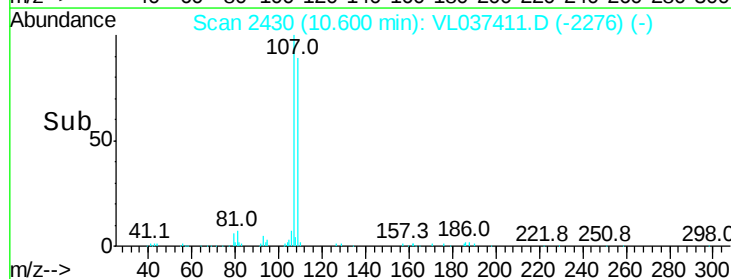
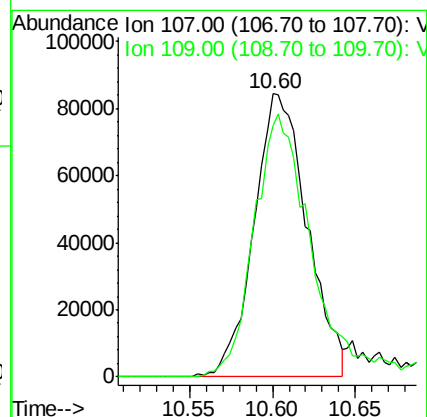
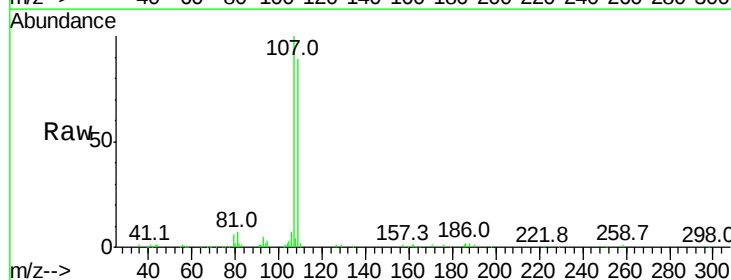
Acq: 12 Aug 2021 12:18

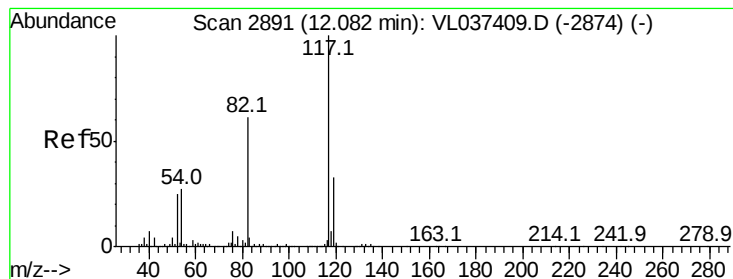
Tgt Ion: 107 Resp: 187458

Ion Ratio Lower Upper

107 100

109 88.7 78.4 117.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

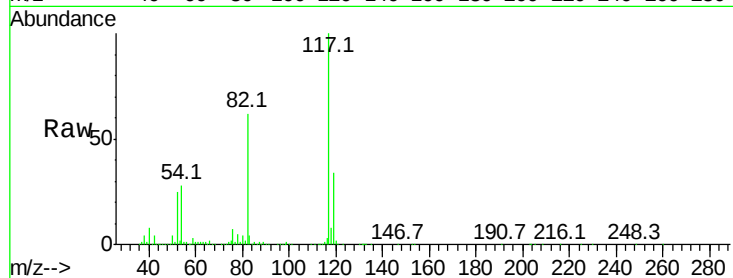
Tgt Ion:117 Resp: 3612321

Ion Ratio Lower Upper

117 100

82 61.7 53.1 79.7

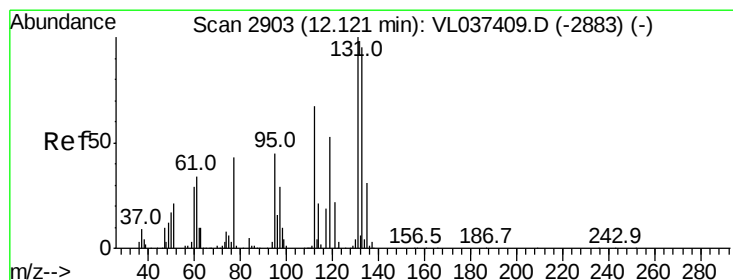
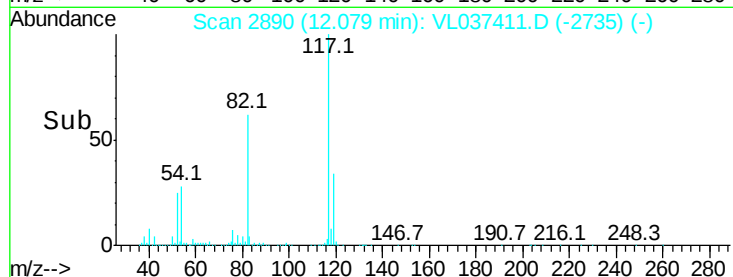
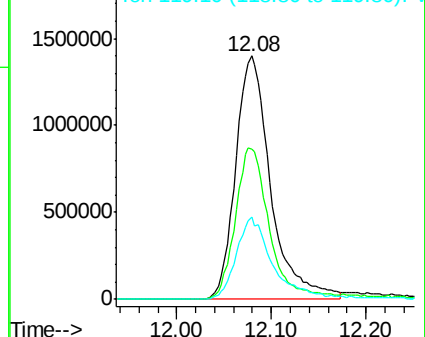
119 36.2 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 1.093 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

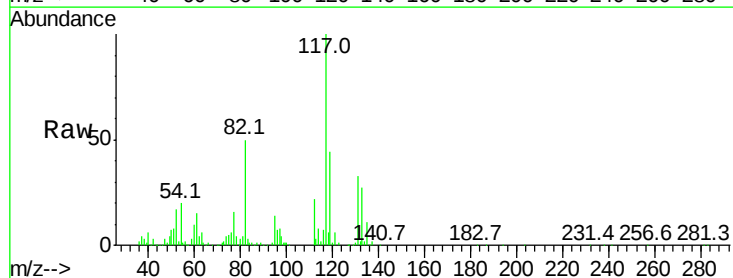
Tgt Ion:131 Resp: 152613

Ion Ratio Lower Upper

131 100

133 98.1 77.1 115.7

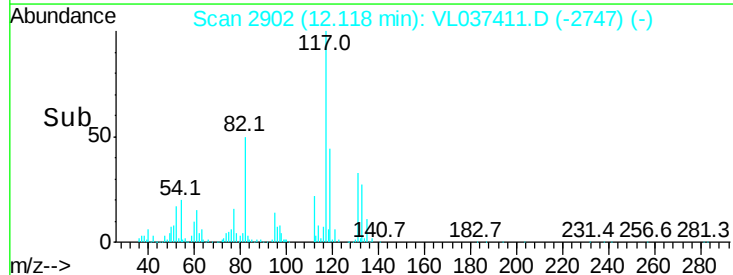
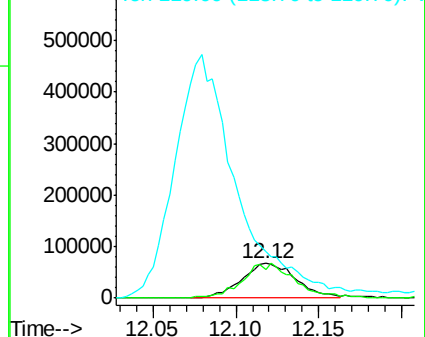
119 825.1 59.7 89.5#

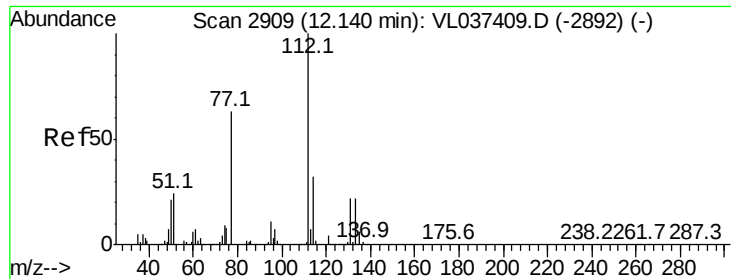


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.653 ppbv

RT: 12.14 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

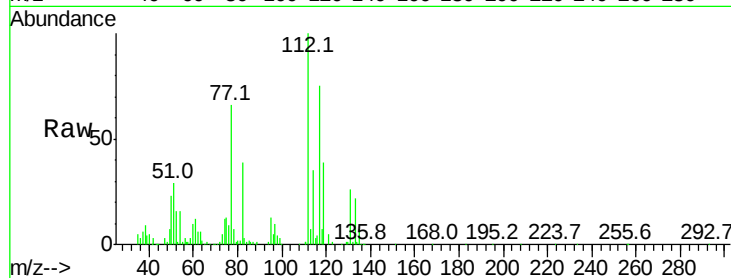
Tgt Ion: 112 Resp: 182025

Ion Ratio Lower Upper

112 100

77 57.4 50.0 75.0

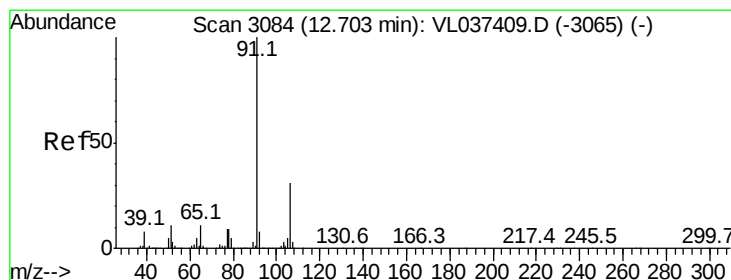
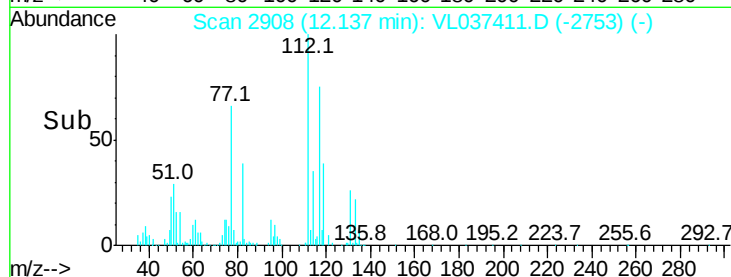
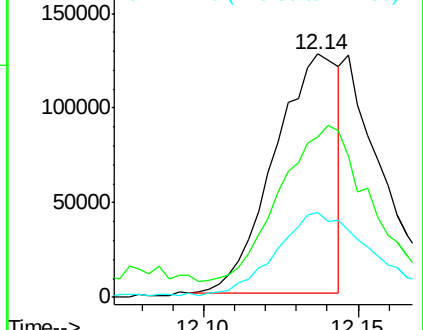
114 33.5 28.5 34.9



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.059 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. 0.00 min

Lab File: VL037411.D

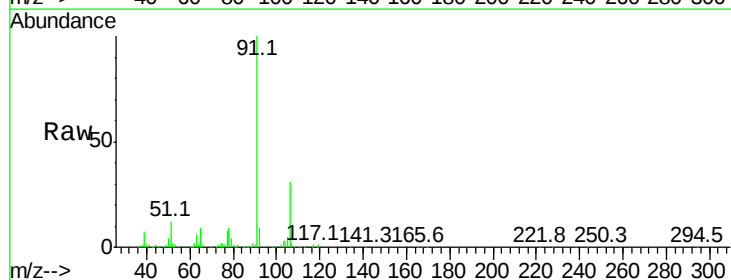
Acq: 12 Aug 2021 12:18

Tgt Ion: 91 Resp: 510595

Ion Ratio Lower Upper

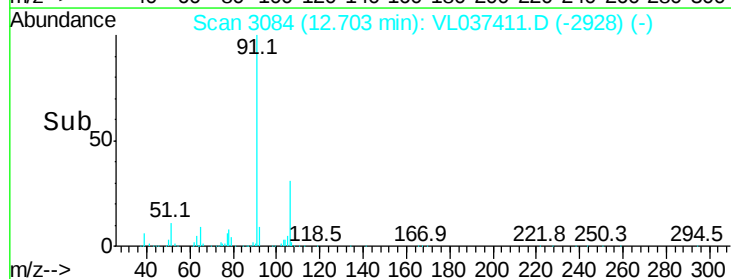
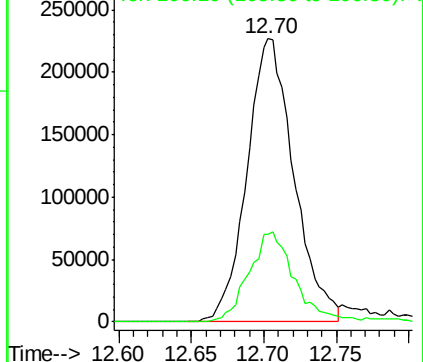
91 100

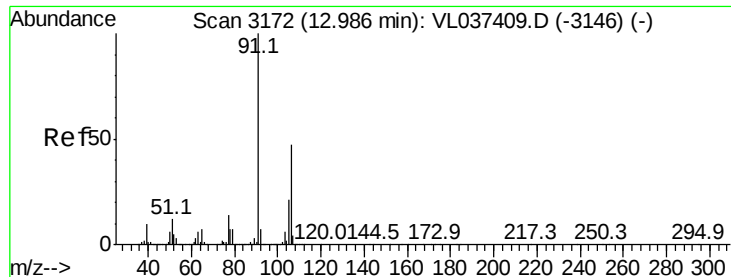
106 30.9 24.7 37.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

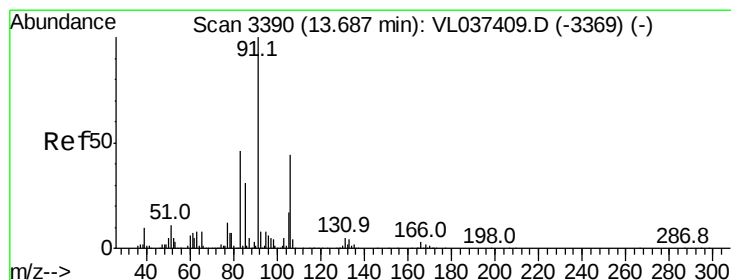
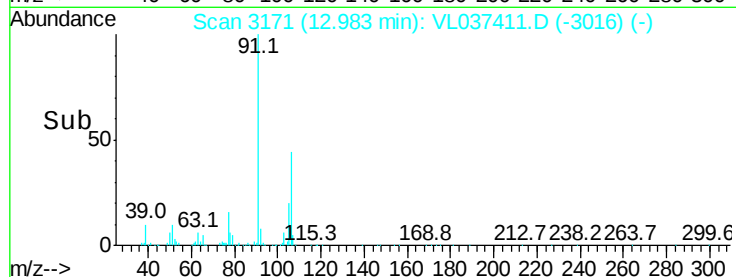
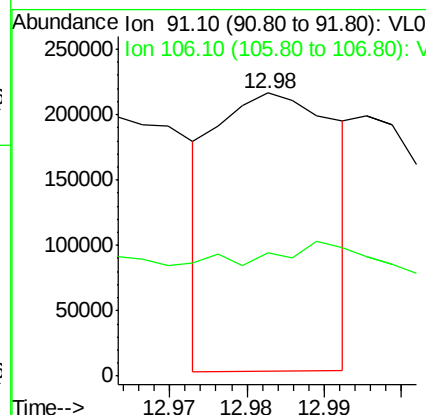
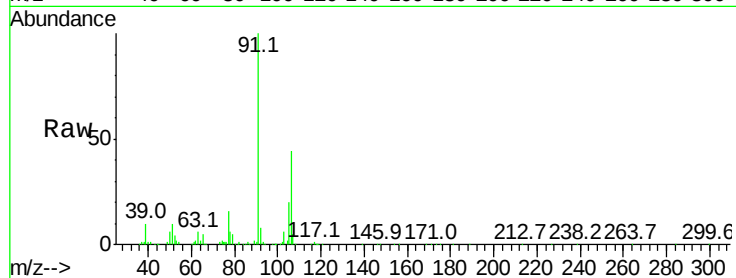




#59
m/p-Xylene
Concen: 0.556 ppbv
RT: 12.98 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL037411.D
Acq: 12 Aug 2021 12:18

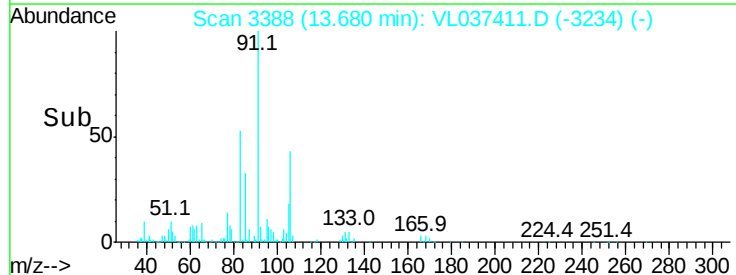
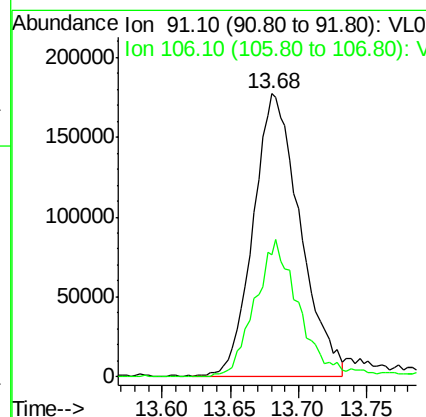
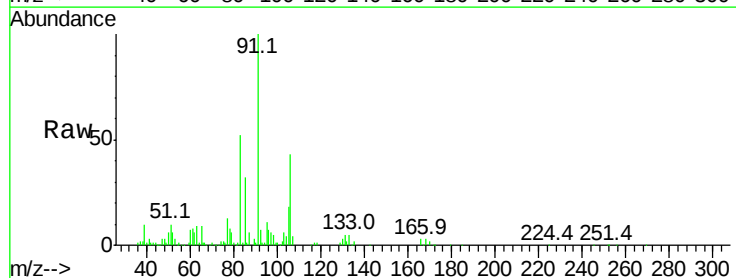
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

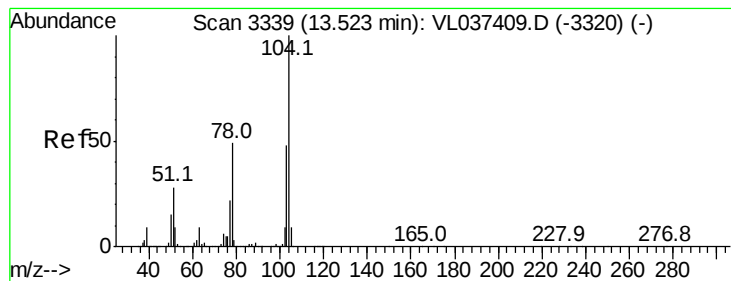
Tgt Ion: 91 Resp: 230816
Ion Ratio Lower Upper
91 100
106 0.0 36.6 54.8#



#60
o-Xylene
Concen: 1.093 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL037411.D
Acq: 12 Aug 2021 12:18

Tgt Ion: 91 Resp: 420618
Ion Ratio Lower Upper
91 100
106 47.7 24.1 72.2





#61

Styrene

Concen: 0.968 ppbv

RT: 13.52 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

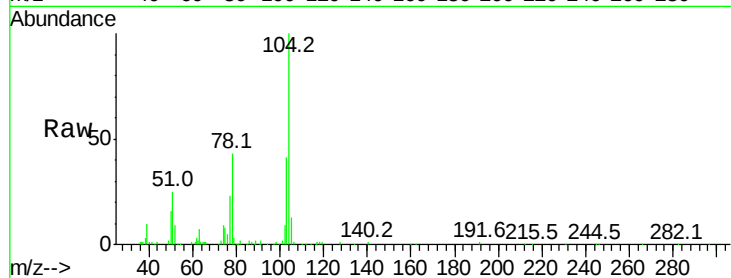
Tgt Ion:104 Resp: 193035

Ion Ratio Lower Upper

104 100

78 53.4 41.5 62.3

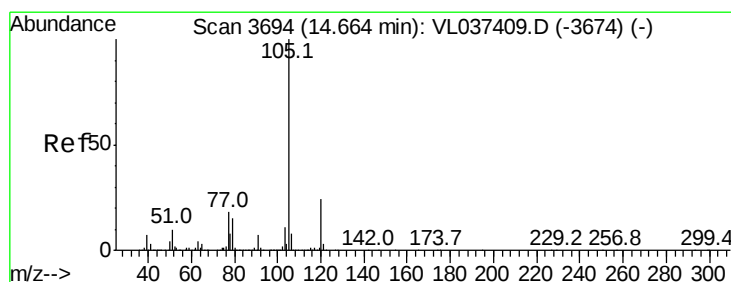
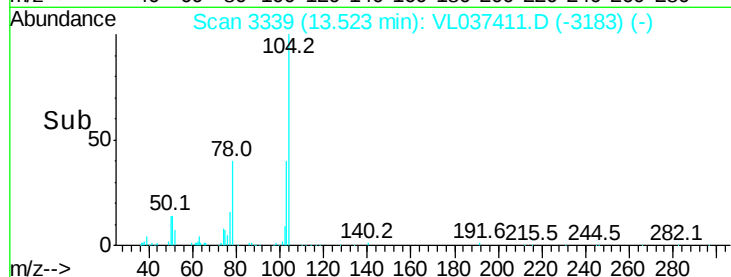
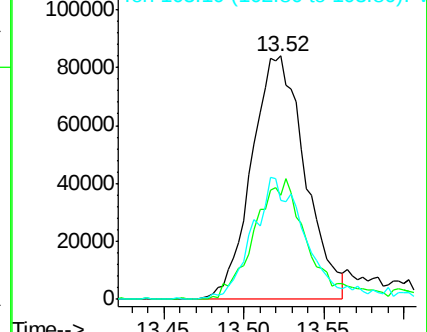
103 52.0 40.2 60.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 1.122 ppbv

RT: 14.66 min Scan# 3693

Delta R.T. -0.00 min

Lab File: VL037411.D

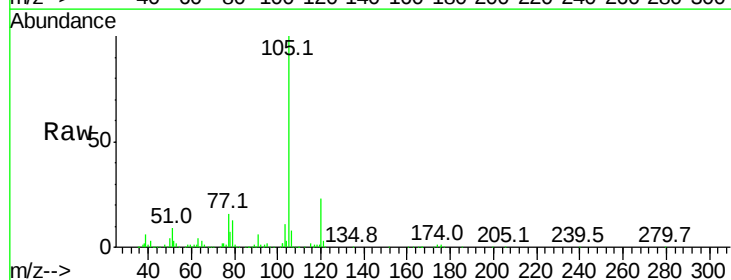
Acq: 12 Aug 2021 12:18

Tgt Ion:105 Resp: 608232

Ion Ratio Lower Upper

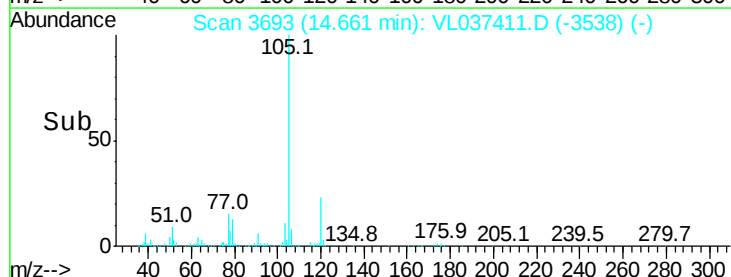
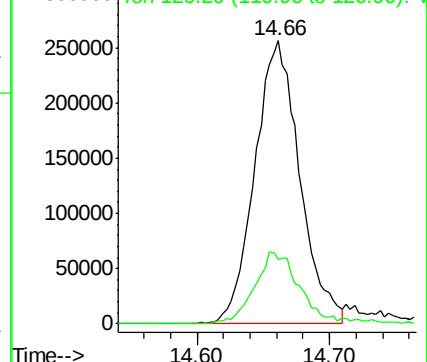
105 100

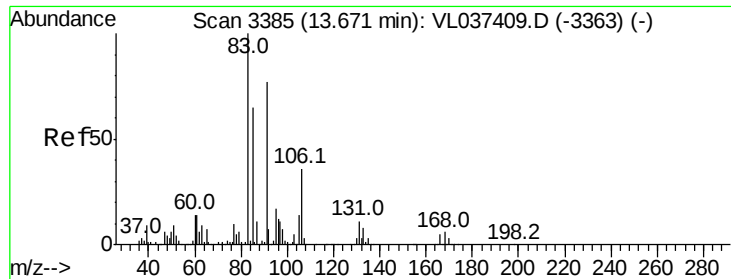
120 26.6 21.6 32.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 1.062 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

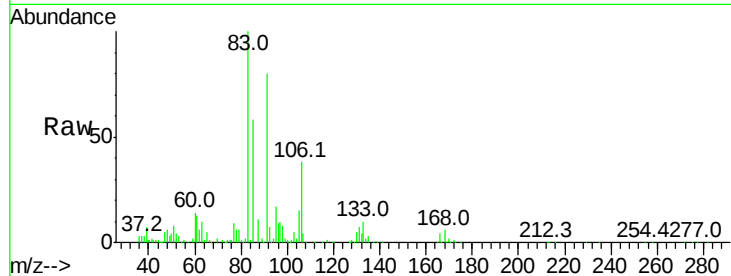
Tgt Ion: 83 Resp: 309083

Ion Ratio Lower Upper

83 100

131 10.5 5.1 15.4

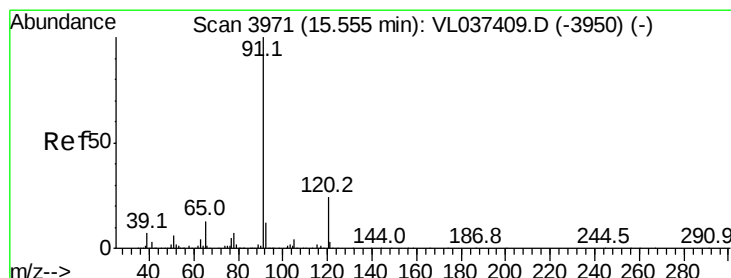
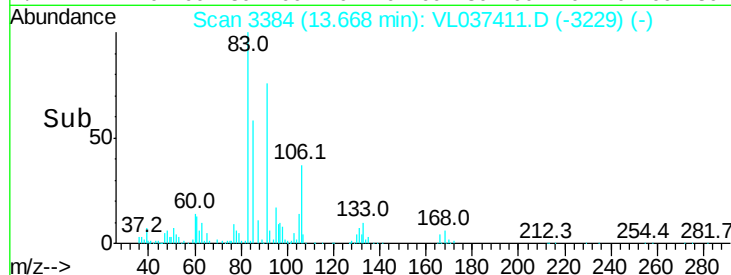
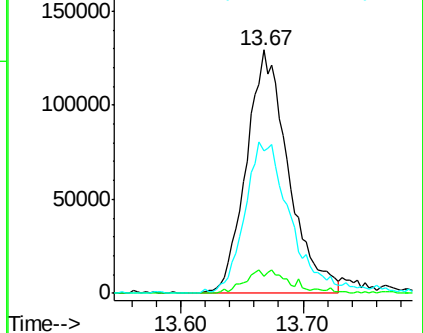
85 69.0 33.4 100.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.632 ppbv

RT: 15.55 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VL037411.D

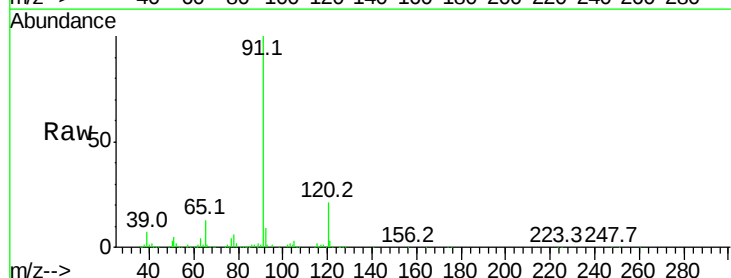
Acq: 12 Aug 2021 12:18

Tgt Ion: 120 Resp: 86937

Ion Ratio Lower Upper

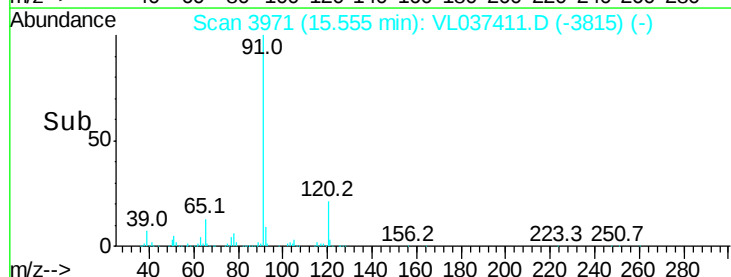
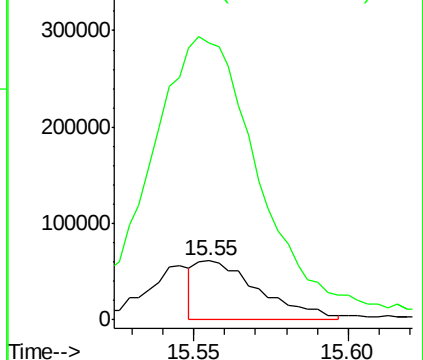
120 100

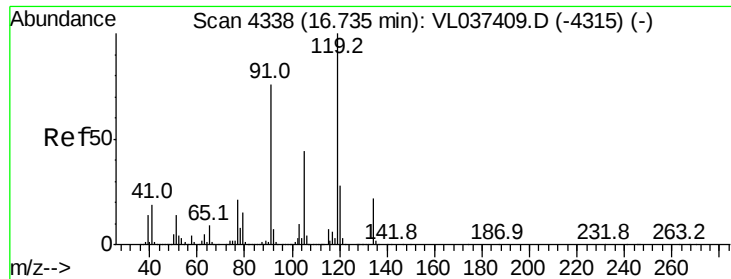
91 876.8 388.4 582.6#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

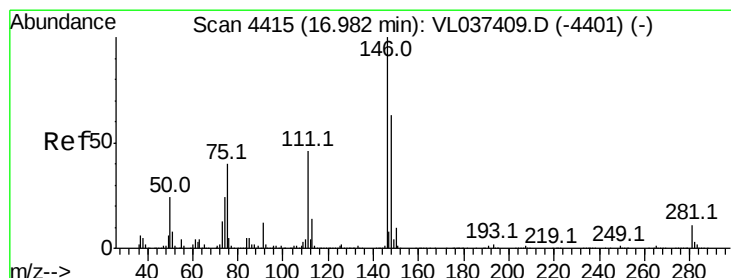
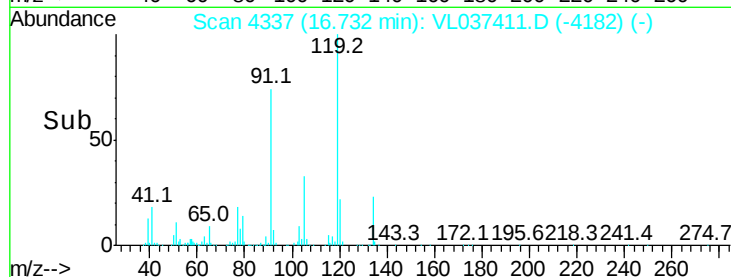
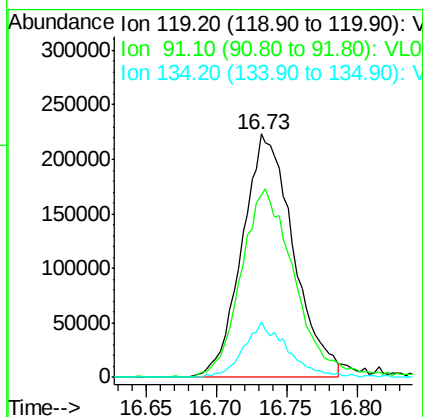
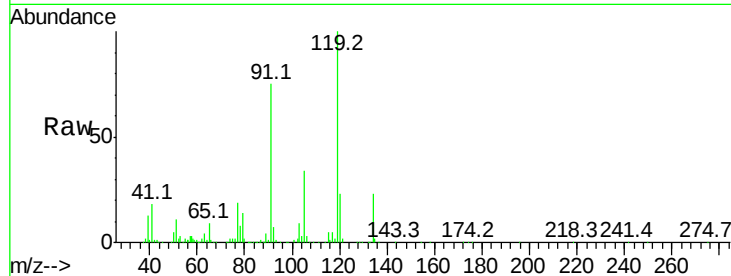




#65
 tert-Butylbenzene
 Concen: 1.152 ppbv
 RT: 16.73 min Scan# 4337
 Delta R.T. -0.00 min
 Lab File: VL037411.D
 Acq: 12 Aug 2021 12:18

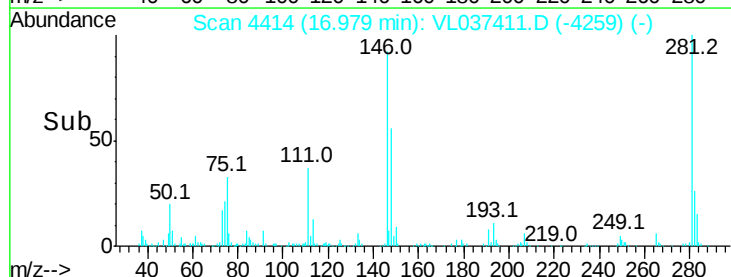
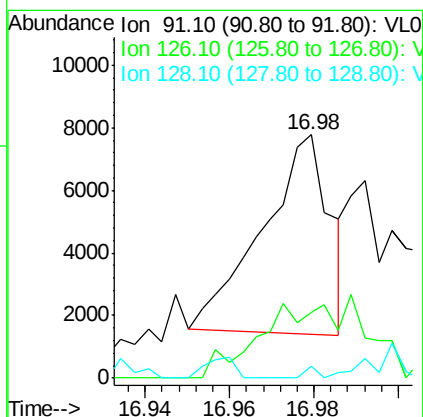
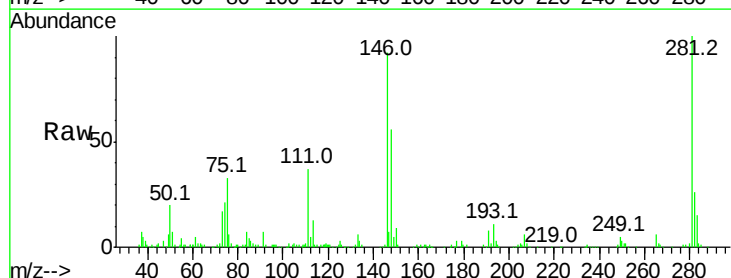
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

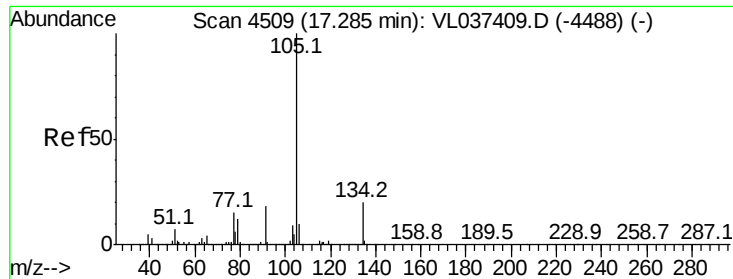
Tgt Ion: 119 Resp: 563173
 Ion Ratio Lower Upper
 119 100
 91 81.5 62.2 93.4
 134 20.0 16.1 24.1



#66
 Benzyl Chloride
 Concen: 0.339 ppbv
 RT: 16.98 min Scan# 4414
 Delta R.T. -0.00 min
 Lab File: VL037411.D
 Acq: 12 Aug 2021 12:18

Tgt Ion: 91 Resp: 7027
 Ion Ratio Lower Upper
 91 100
 126 75.9 14.3 21.5#
 128 14.6 4.6 7.0#

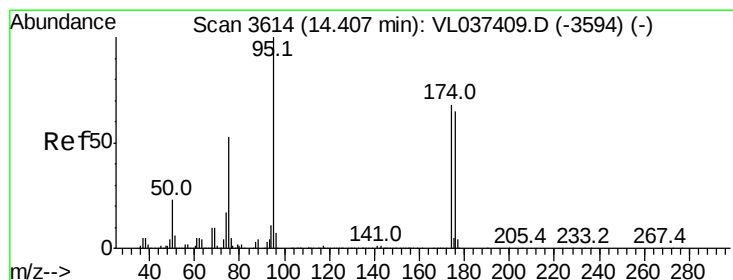
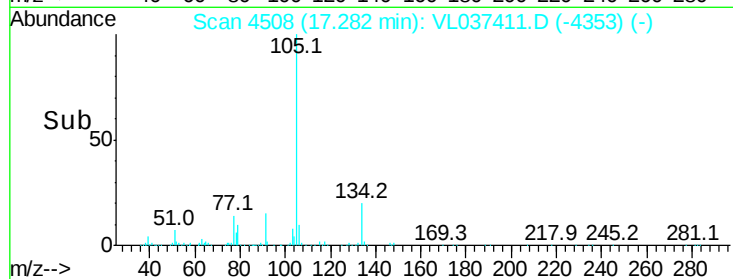
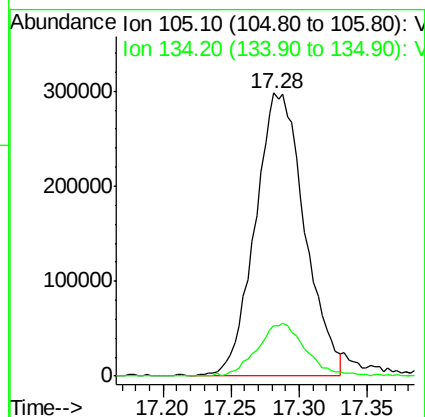
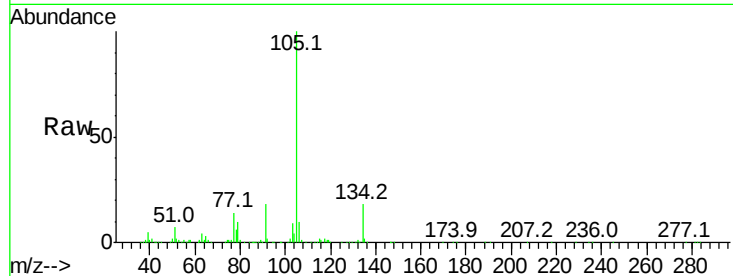




#67
 sec-Butylbenzene
 Concen: 1.113 ppbv
 RT: 17.28 min Scan# 4508
 Delta R.T. -0.00 min
 Lab File: VL037411.D
 Acq: 12 Aug 2021 12:18

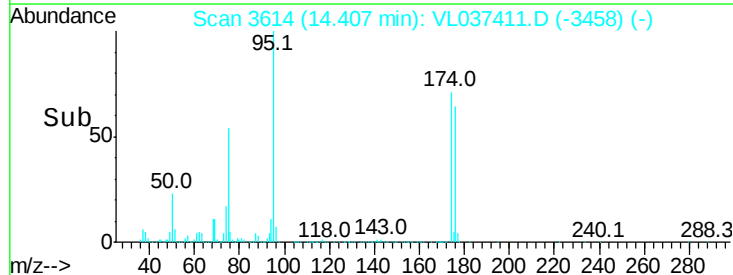
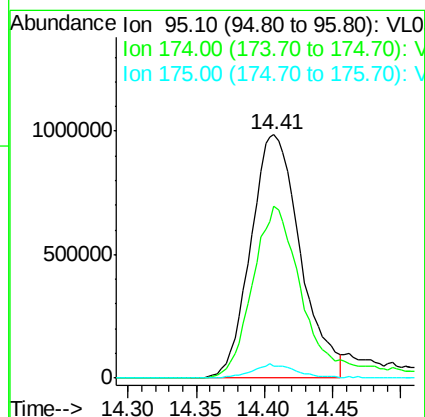
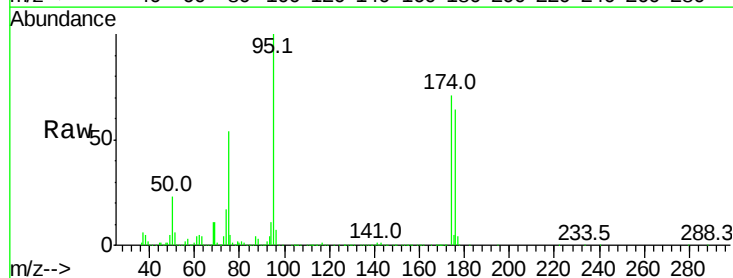
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

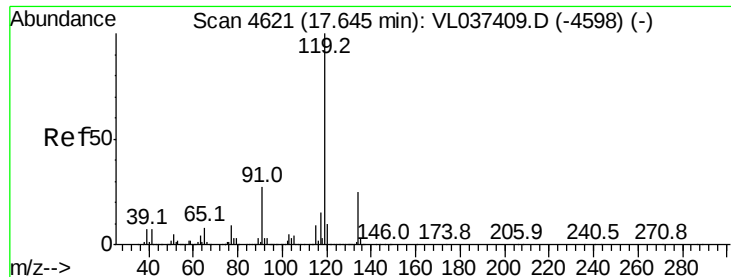
Tgt Ion: 105 Resp: 747810
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.4 23.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.235 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. 0.00 min
 Lab File: VL037411.D
 Acq: 12 Aug 2021 12:18

Tgt Ion: 95 Resp: 2487881
 Ion Ratio Lower Upper
 95 100
 174 77.3 59.6 89.4
 175 5.4 4.3 6.5

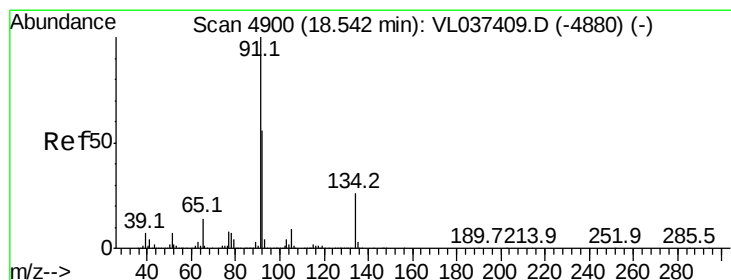
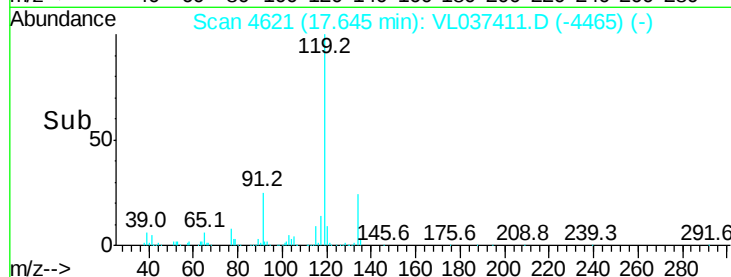
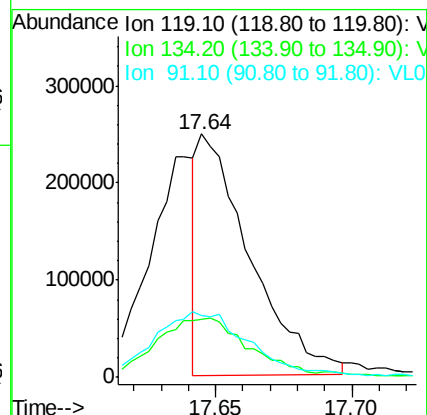
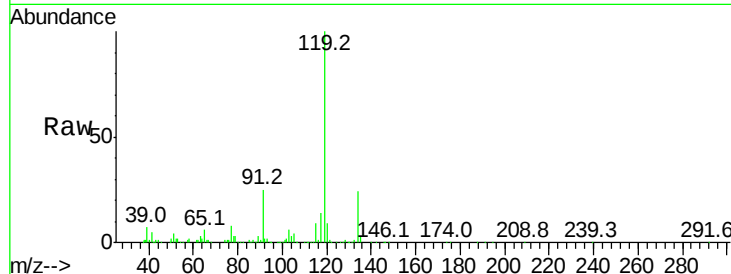




#69
p-Isopropyltoluene
Concen: 0.600 ppbv
RT: 17.64 min Scan# 4621
Delta R.T. 0.00 min
Lab File: VL037411.D
Acq: 12 Aug 2021 12:18

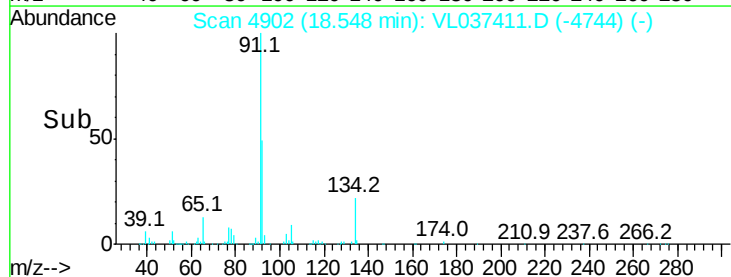
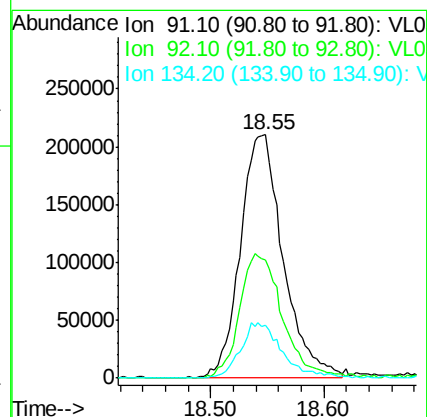
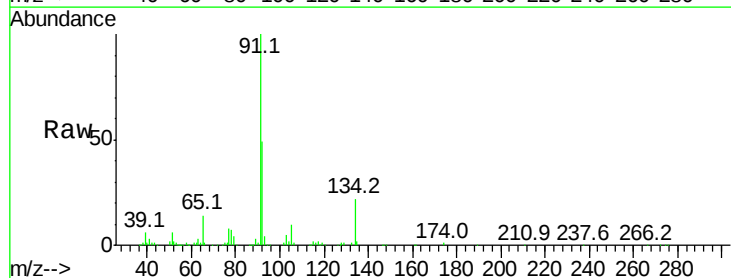
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

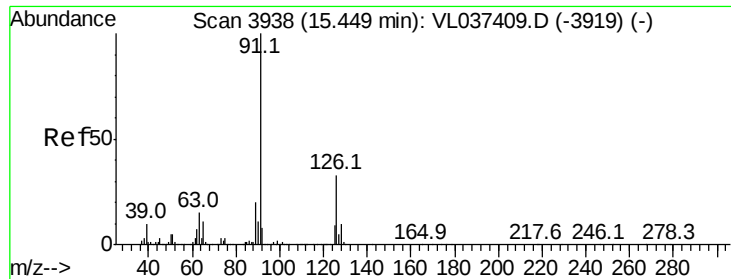
Tgt Ion	Ratio	Lower	Upper
119	100		
134	47.8	20.6	31.0
91	51.9	22.4	33.6



#70
n-Butylbenzene
Concen: 1.083 ppbv
RT: 18.55 min Scan# 4902
Delta R.T. 0.01 min
Lab File: VL037411.D
Acq: 12 Aug 2021 12:18

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	44.2	66.2
134	22.3	19.5	29.3





#71

2-Chlorotoluene

Concen: 1.077 ppbv

RT: 15.44 min Scan# 3936

Delta R.T. -0.01 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

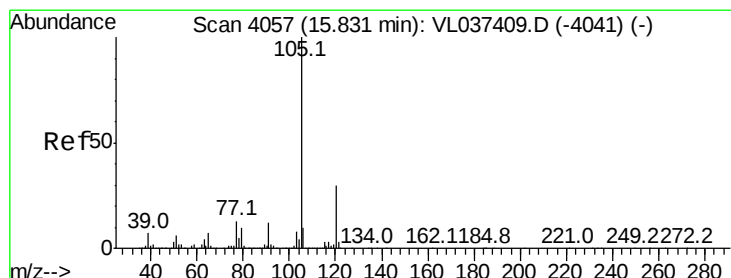
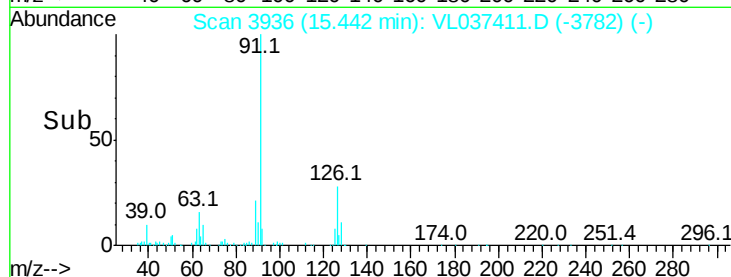
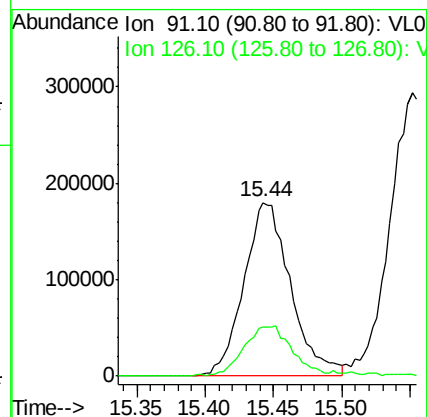
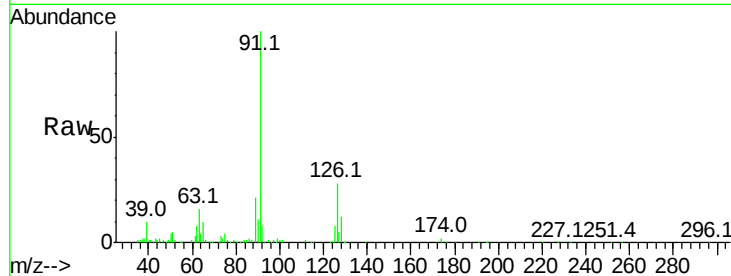
VSTDIC001

Tgt Ion: 91 Resp: 426178

Ion Ratio Lower Upper

91 100

126 32.7 13.5 53.9



#72

4-Ethyltoluene

Concen: 1.070 ppbv

RT: 15.83 min Scan# 4057

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Tgt Ion: 105 Resp: 481773

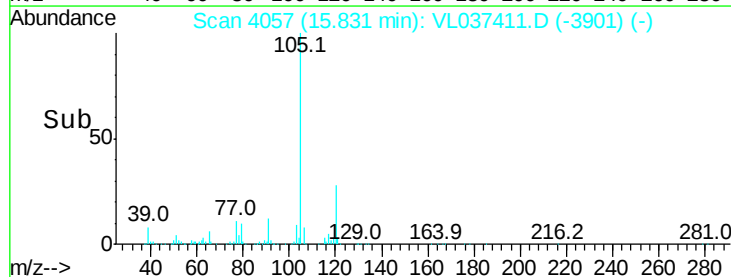
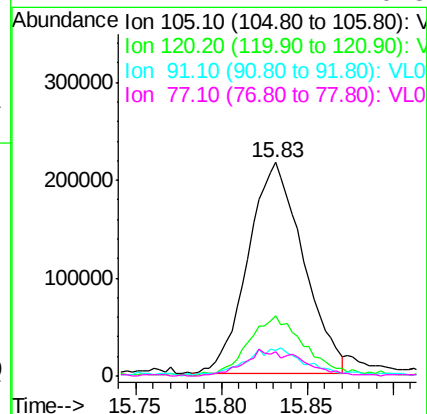
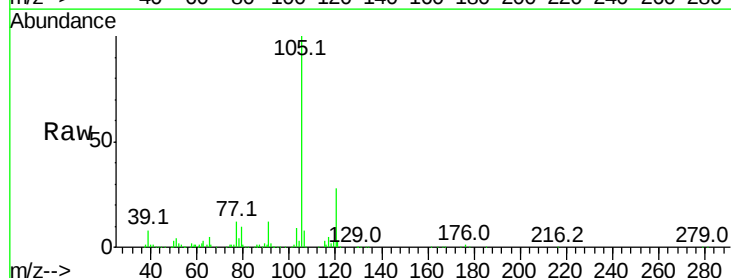
Ion Ratio Lower Upper

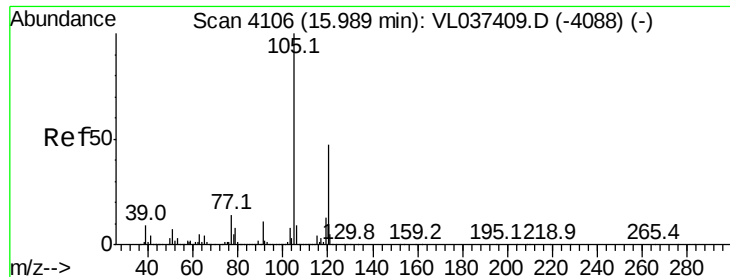
105 100

120 30.4 25.0 37.4

91 14.8 11.2 16.8

77 14.1 11.2 16.8





#73

1,3,5-Trimethylbenzene

Concen: 1.052 ppbv

RT: 15.99 min Scan# 4106

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

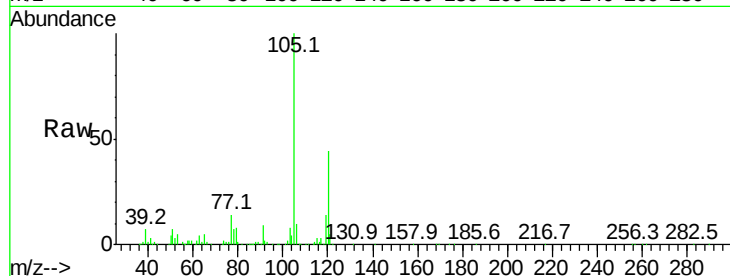
VSTDIC001

Tgt Ion:105 Resp: 439036

Ion Ratio Lower Upper

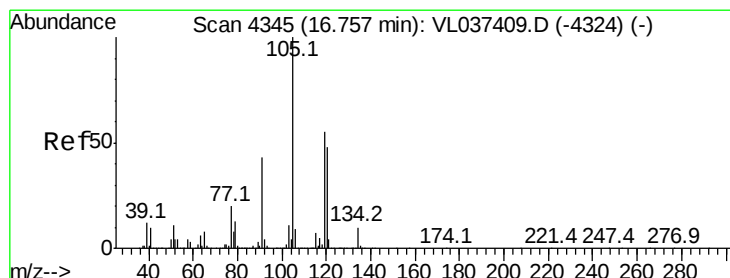
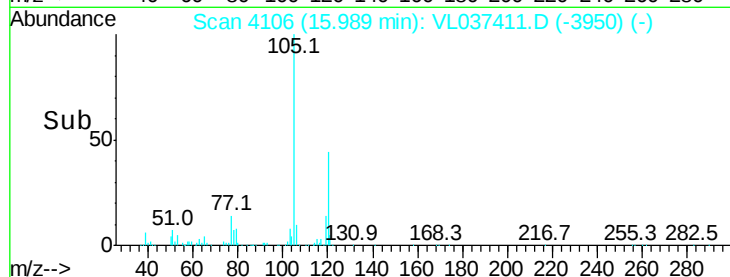
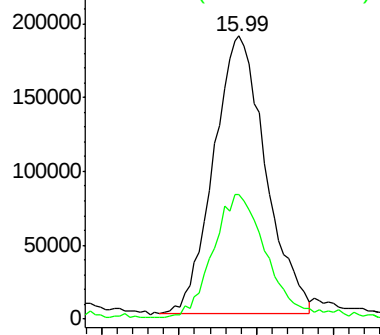
105 100

120 44.1 37.4 56.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.076 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Tgt Ion:105 Resp: 456070

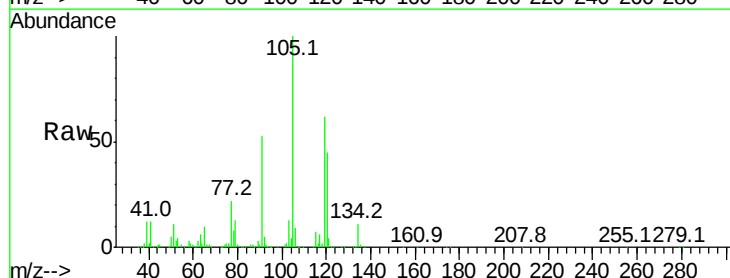
Ion Ratio Lower Upper

105 100

120 43.9 38.2 57.2

91 48.0 35.4 53.2

77 20.4 16.2 24.2

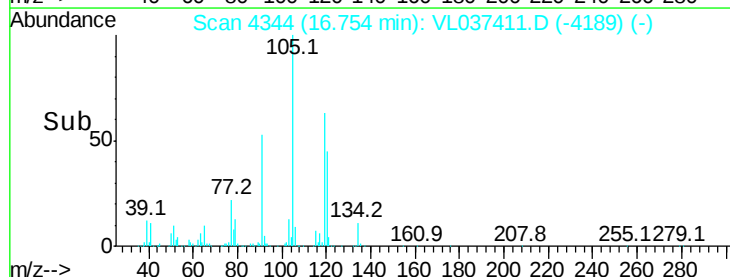
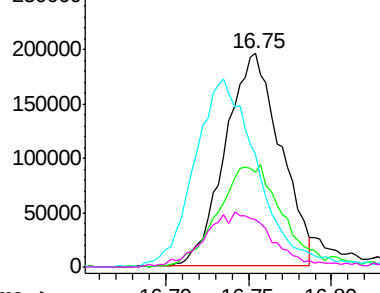


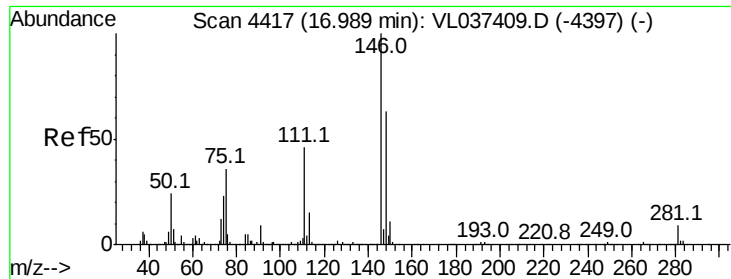
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 1.038 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC001

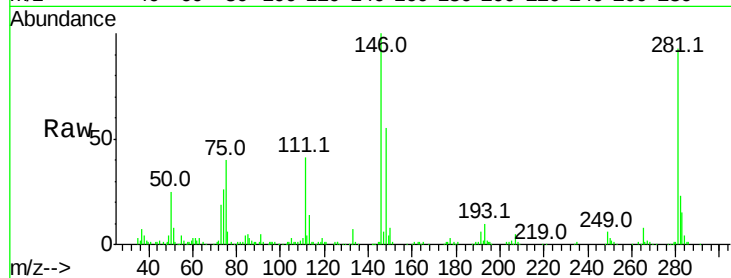
Tgt Ion:146 Resp: 267393

Ion Ratio Lower Upper

146 100

111 49.4 22.9 68.7

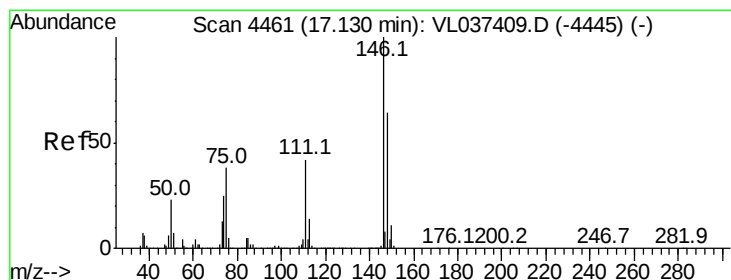
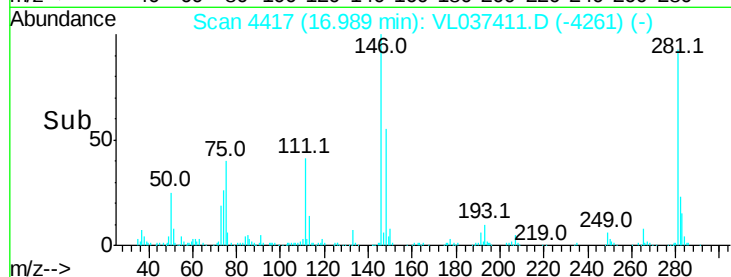
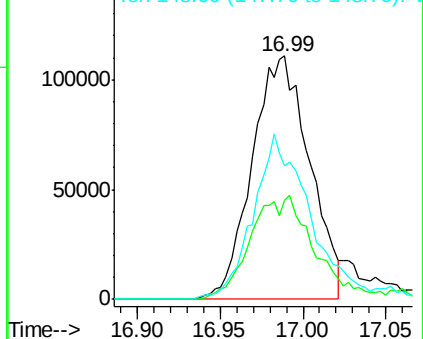
148 69.4 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.380 ppbv

RT: 17.12 min Scan# 4458

Delta R.T. -0.01 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

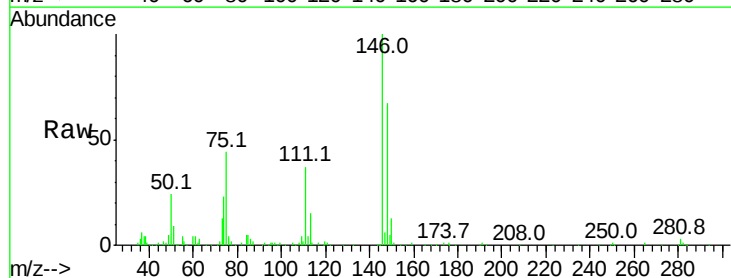
Tgt Ion:146 Resp: 96143

Ion Ratio Lower Upper

146 100

111 0.0 22.8 68.4#

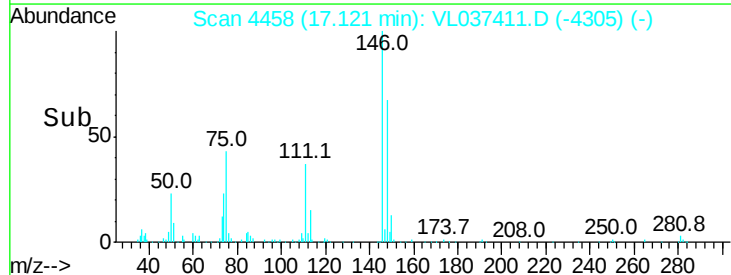
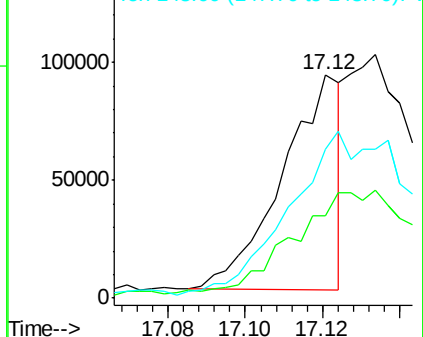
148 182.9 34.0 102.0#

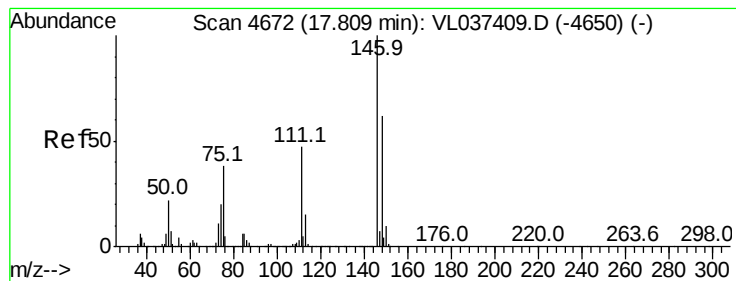


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.999 ppbv

RT: 17.81 min Scan# 4672

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

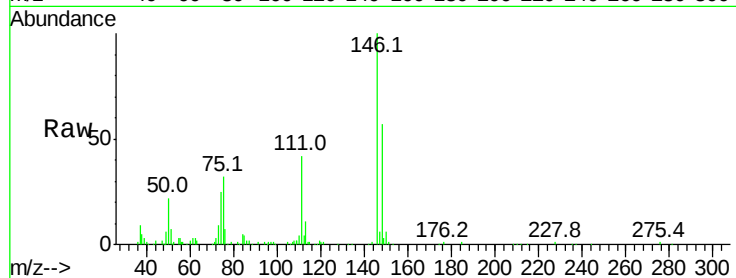
Tgt Ion:146 Resp: 247943

Ion Ratio Lower Upper

146 100

111 53.1 23.8 71.5

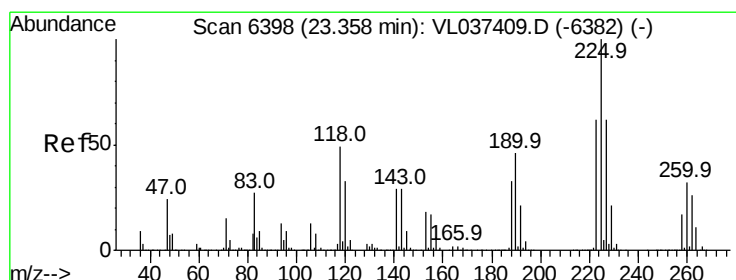
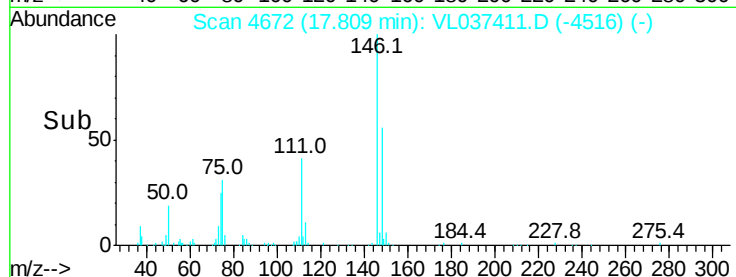
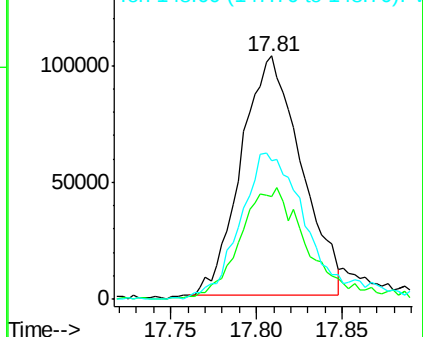
148 71.1 32.5 97.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.610 ppbv

RT: 23.36 min Scan# 6399

Delta R.T. 0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

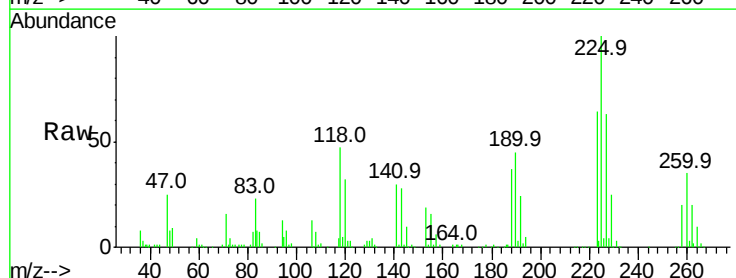
Tgt Ion:225 Resp: 121457

Ion Ratio Lower Upper

225 100

223 125.2 51.2 76.8#

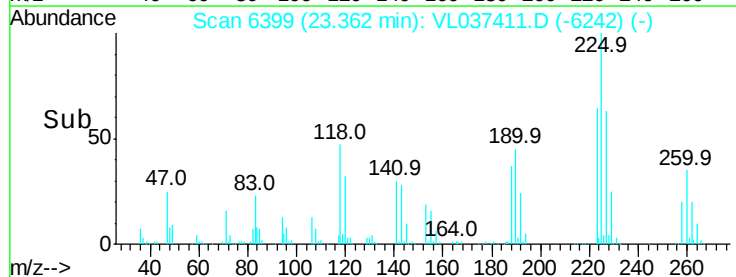
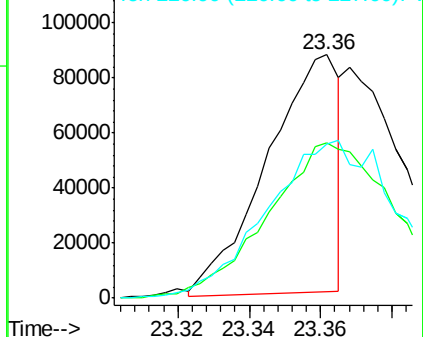
227 0.0 52.2 78.4#

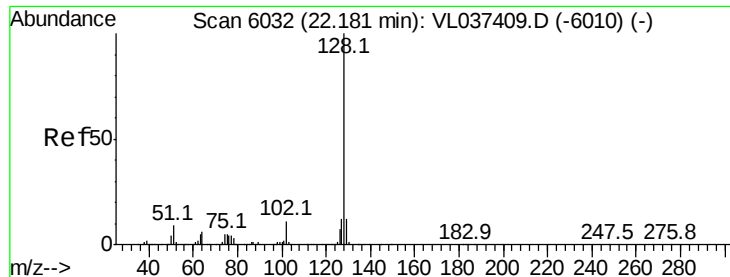


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.209 ppbv

RT: 22.18 min Scan# 6031

Delta R.T. -0.00 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

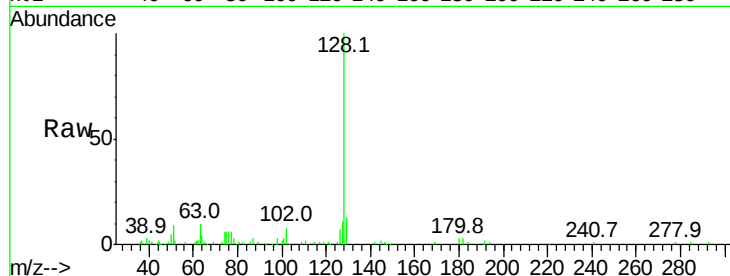
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

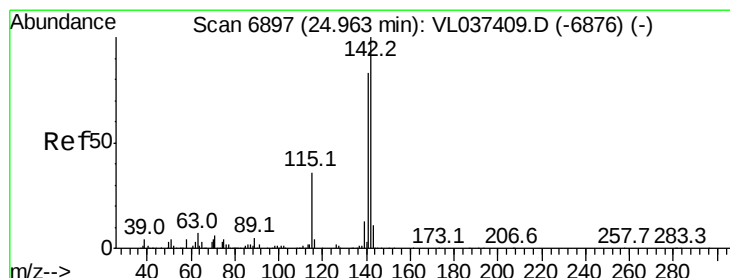
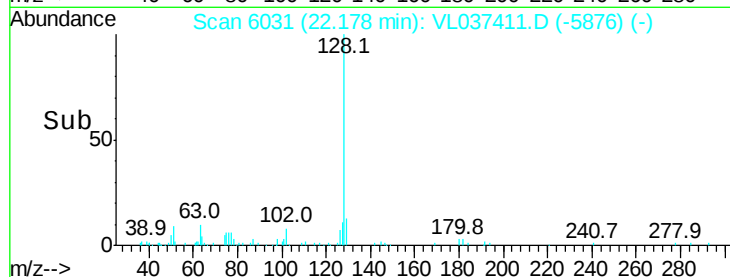
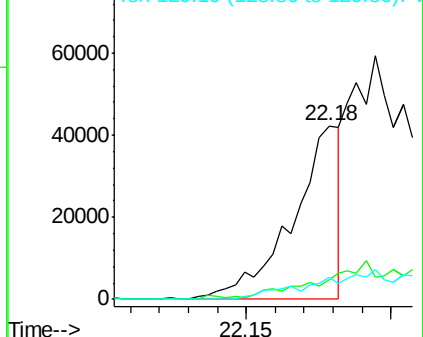
Tgt Ion:	128	Resp:	48360
Ion	Ratio	Lower	Upper
128	100		
127	11.1	9.9	14.9
129	12.5	9.4	14.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.111 ppbv

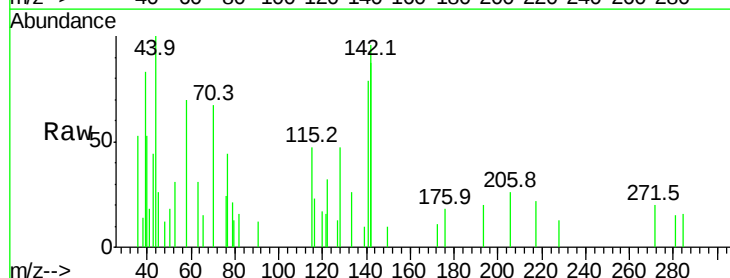
RT: 24.98 min Scan# 6902

Delta R.T. 0.02 min

Lab File: VL037411.D

Acq: 12 Aug 2021 12:18

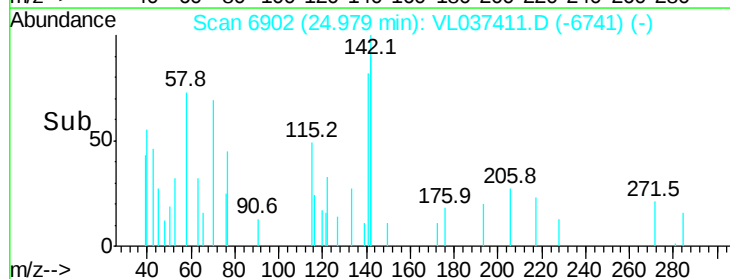
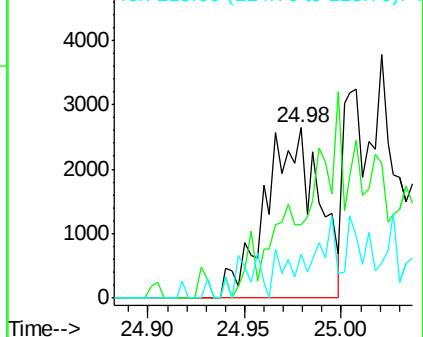
Tgt Ion:	142	Resp:	5027
Ion	Ratio	Lower	Upper
142	100		
141	147.4	68.7	103.1#
115	26.4	32.7	49.1#

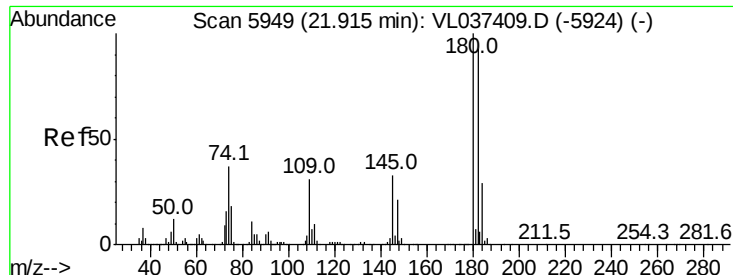


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.350 ppbv
 RT: 21.91 min Scan# 5948
 Delta R.T. -0.00 min
 Lab File: VL037411.D
 Acq: 12 Aug 2021 12:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.6	118.0#
184	0.0	24.6	36.8#

