

Data File : VL037269.D
Acq On : 2 Jul 2021 11:16
Operator : SY/AP
Sample : VL0702ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Quant Time: Jul 02 14:56:01 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:06:32 2021
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1329267	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3912317	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4557625	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2931366	8.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.06	85	2157260	9.332	ppbv	99
3) Chlorodifluoromethane	3.00	51	2288459	8.854	ppbv	99
4) Chloromethane	3.15	50	760045	8.823	ppbv	99
5) Vinyl Chloride	3.27	62	857239	9.055	ppbv	97
6) Bromomethane	3.48	94	485129	8.589	ppbv	97
7) Chloroethane	3.57	64	320345	9.466	ppbv	92
8) Dichlorotetrafluoroethane	3.20	85	2181725	9.200	ppbv	98
9) Propene	3.02	41	711602	8.610	ppbv	99
10) Heptane	8.14	43	1860519	9.295	ppbv	99
11) Trichlorofluoromethane	3.96	101	2345558	9.509	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1716787	9.873	ppbv	99
13) Ethanol	3.62	45	63878	4.997	ppbv	59
14) Bromoethene	3.75	108	668984	9.218	ppbv	98
15) Acetone	3.86	43	1156517	7.715	ppbv	97
16) 1,3-Butadiene	3.34	39	841287	9.494	ppbv	98
17) tert-Butyl alcohol	4.30	59	1452562	10.485	ppbv	100
18) 1,1-Dichloroethene	4.30	96	745120	9.670	ppbv	96
19) Isopropyl Alcohol	3.98	45	829478	9.136	ppbv	98
20) Methylene Chloride	4.36	84	636502	7.093	ppbv	99
21) Allyl Chloride	4.43	41	1058236	9.366	ppbv	97
22) trans-1,2-Dichloroethene	4.90	96	788318	10.339	ppbv	97
23) Vinyl Acetate	5.09	43	1848419	8.600	ppbv	100
24) 1,1-Dichloroethane	5.02	63	1549599	8.955	ppbv	100
25) Ethyl Acetate	5.70	43	2941370	9.064	ppbv	99
26) Hexane	5.70	57	1391875	8.486	ppbv	98
27) Carbon Disulfide	4.56	76	1751445	10.899	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1626106	8.247	ppbv	99
29) Chloroform	5.77	83	2347458	9.265	ppbv	99
30) Cyclohexane	7.15	84	1226349	8.974	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	1415887	9.395	ppbv	98
32) 1,1,1-Trichloroethane	6.53	97	2441741	9.006	ppbv	99
34) 2-Butanone	5.26	43	1258192	8.269	ppbv	98
35) Carbon Tetrachloride	7.04	117	2629336	10.020	ppbv	97
36) Benzene	6.91	78	2910868	9.201	ppbv	99
37) 1,2-Dichloroethane	6.33	62	1786871	9.723	ppbv	99
38) Trichloroethene	7.86	130	1266142	8.420	ppbv	98
39) 1,2-Dichloropropane	7.64	63	1113973	9.476	ppbv	99
40) 1,4-Dioxane	7.85	88	121123	3.757	ppbv #	1
41) Tetrahydrofuran	6.07	42	683350	9.669	ppbv	98
42) Bromodichloromethane	7.81	83	2496065	9.845	ppbv	99
43) Methyl Methacrylate	8.03	69	1063955	9.738	ppbv	98

Data File : VL037269.D
Acq On : 2 Jul 2021 11:16
Operator : SY/AP
Sample : VL0702ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Quant Time: Jul 02 14:56:01 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:06:32 2021
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	4837253	9.080	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	927853	9.626	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	1162284	8.814	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	1260724	9.400	ppbv	97
48) Dibromochloromethane	10.33	129	2278745	10.764	ppbv	99
49) Bromoform	13.06	173	1880681	11.923	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	2072300	9.916	ppbv	99
51) 2-Hexanone	10.16	43	1033719	10.166	ppbv #	98
52) Tetrachloroethene	11.25	164	1215537	8.269	ppbv	96
53) Toluene	9.83	91	3521377	9.318	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1885048	9.780	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.15	131	1552249	7.790	ppbv	99
57) Chlorobenzene	12.17	112	2709233	7.330	ppbv	97
58) Ethyl Benzene	12.73	91	4732712	7.543	ppbv	97
59) m/p-Xylene	13.02	91	4176169	7.854	ppbv #	39
60) o-Xylene	13.72	91	3849237	7.603	ppbv	99
61) Styrene	13.55	104	2136961	8.178	ppbv	97
62) Isopropylbenzene	14.69	105	5332575	7.407	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.70	83	2626202	7.790	ppbv	100
64) n-propylbenzene	15.58	120	1411392	7.828	ppbv	94
65) tert-Butylbenzene	16.77	119	4922953	7.710	ppbv	99
66) Benzyl Chloride	17.01	91	214955	7.944	ppbv	98
67) sec-Butylbenzene	17.32	105	6549460	7.692	ppbv	99
69) p-Isopropyltoluene	17.67	119	5614965	7.807	ppbv	99
70) n-Butylbenzene	18.57	91	5241263	7.874	ppbv	99
71) 2-Chlorotoluene	15.47	91	3928245	7.805	ppbv	98
72) 4-Ethyltoluene	15.86	105	4594057	7.988	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	4219340	7.589	ppbv	97
74) 1,2,4-Trimethylbenzene	16.78	105	4392234	7.667	ppbv	94
75) 1,3-Dichlorobenzene	17.02	146	2623486	7.532	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	2568893	7.384	ppbv	99
77) 1,2-Dichlorobenzene	17.84	146	2527899	7.503	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	1569003	5.416	ppbv	100
79) Naphthalene	22.22	128	2905401	6.083	ppbv	98
80) Naphthalene,2-methyl-	24.99	142	581056	4.639	ppbv	97
81) 1,2,4-Trichlorobenzene	21.95	180	1698255	6.162	ppbv	98

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

Data File : VL037269.D

Acq On : 2 Jul 2021 11:16

Operator : SY/AP

Sample : VL0702ABS01

Misc : 400mL/MSV0A_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

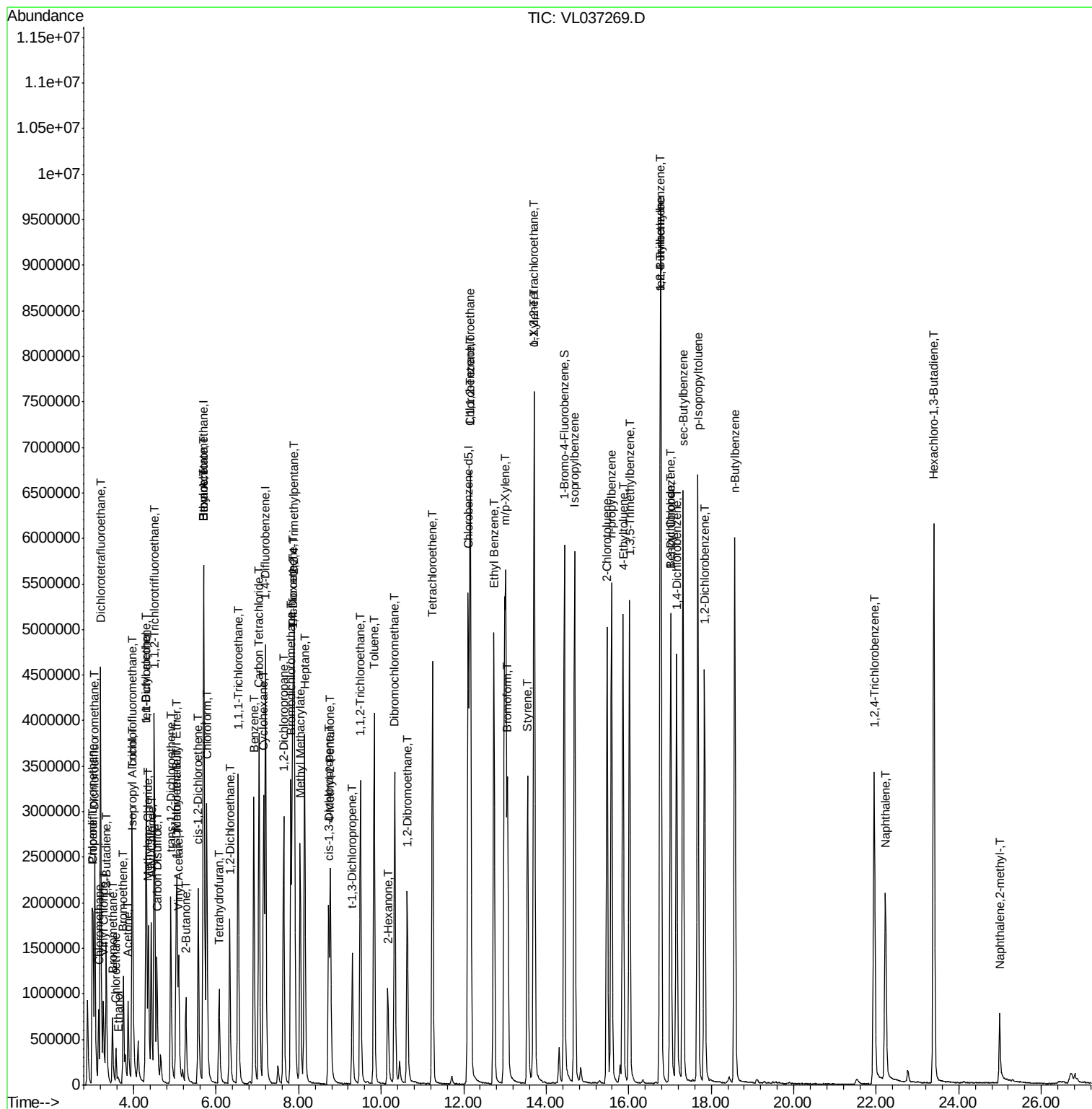
Quant Time: Jul 02 14:56:01 2021

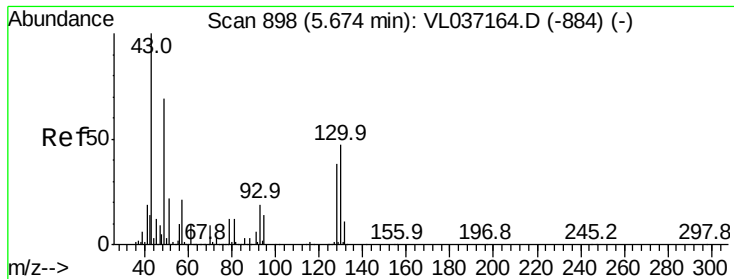
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL061621AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Jun 16 14:06:32 2021

QLast Update : Wed Jun 16 14:06:32 2021

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

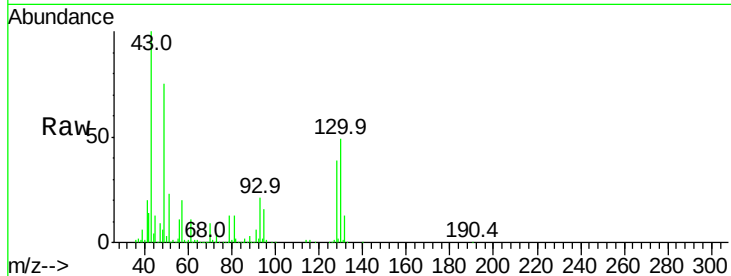
Tgt Ion: 49 Resp: 1329267

Ion Ratio Lower Upper

49 100

128 57.4 29.3 88.0

130 71.3 35.9 107.8



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

5.68

800000

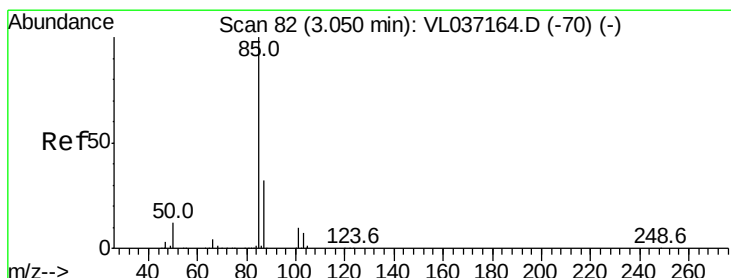
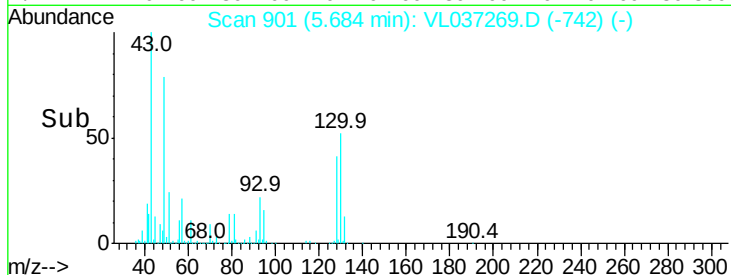
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 9.332 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL037269.D

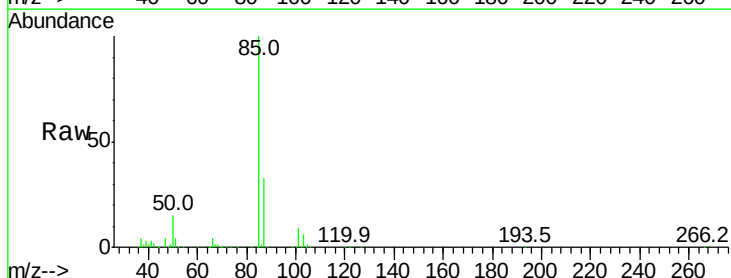
Acq: 2 Jul 2021 11:16

Tgt Ion: 85 Resp: 2157260

Ion Ratio Lower Upper

85 100

87 32.8 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

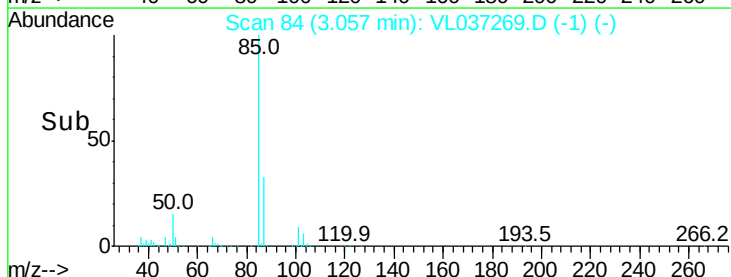
1500000

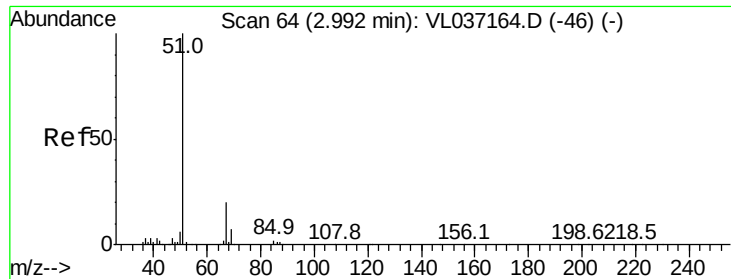
1000000

500000

0

Time-->





#3

Chlorodifluoromethane

Concen: 8.854 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

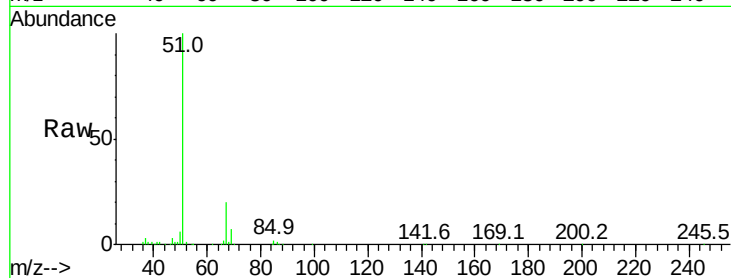
VL0702ABS01

Tgt Ion: 51 Resp: 2288459

Ion Ratio Lower Upper

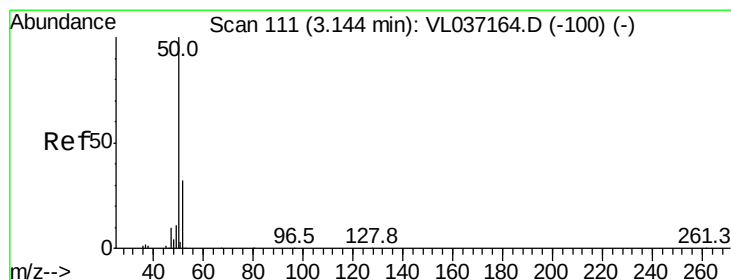
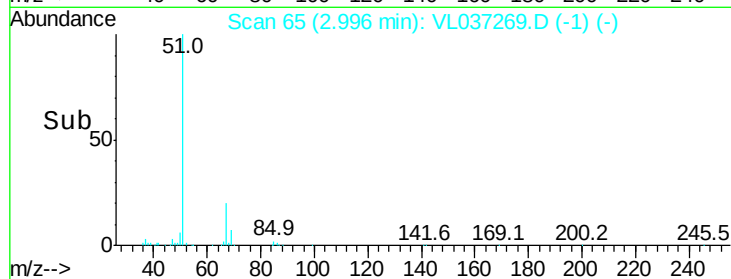
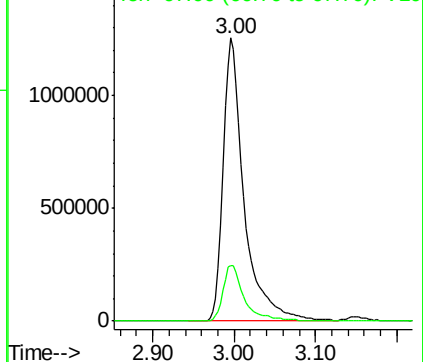
51 100

67 20.1 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.823 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL037269.D

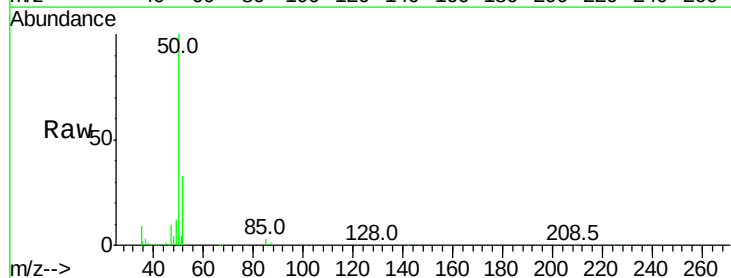
Acq: 2 Jul 2021 11:16

Tgt Ion: 50 Resp: 760045

Ion Ratio Lower Upper

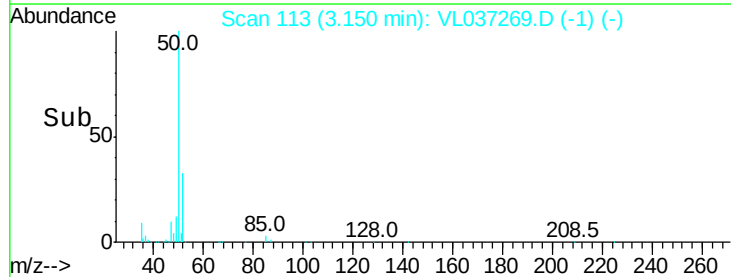
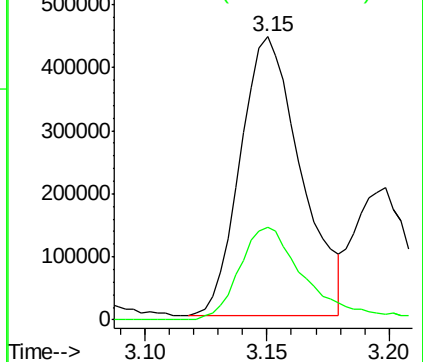
50 100

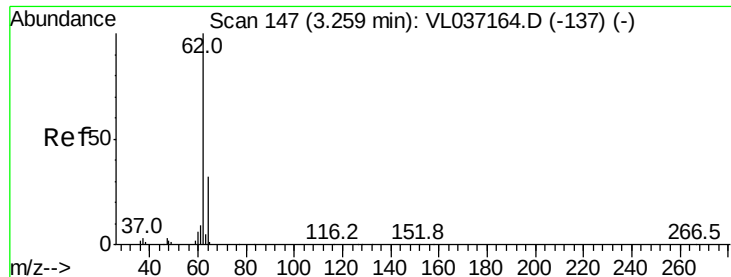
52 33.1 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.055 ppbv

RT: 3.27 min Scan# 149

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

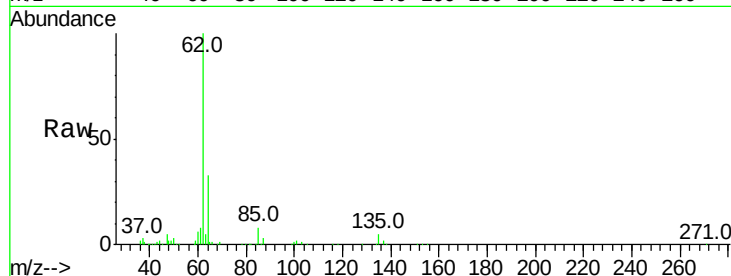
VL0702ABS01

Tgt Ion: 62 Resp: 857239

Ion Ratio Lower Upper

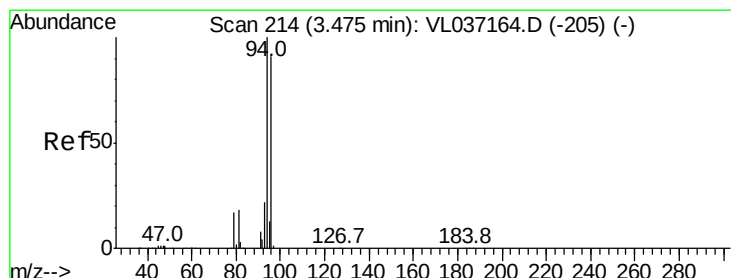
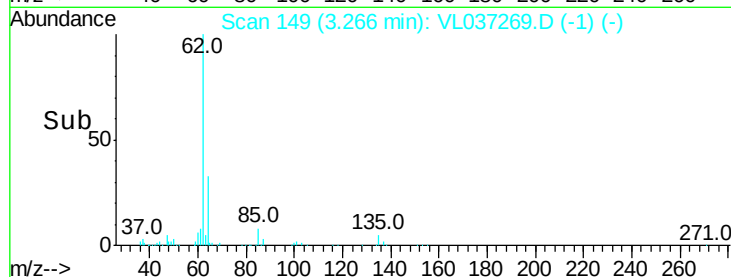
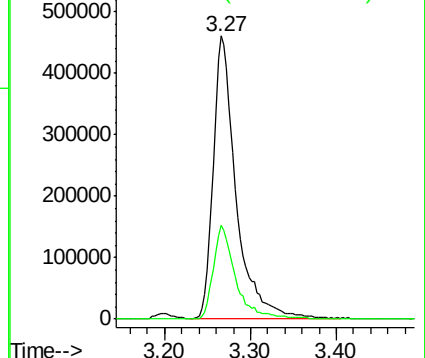
62 100

64 33.4 25.6 38.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.589 ppbv

RT: 3.48 min Scan# 217

Delta R.T. 0.01 min

Lab File: VL037269.D

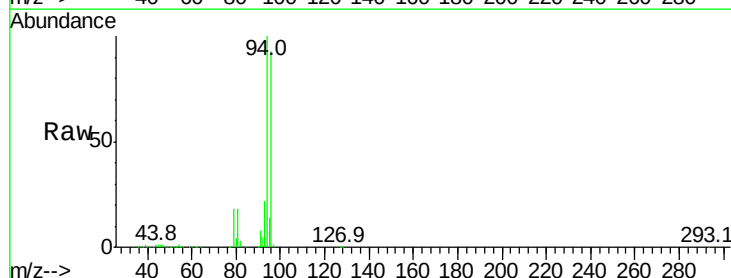
Acq: 2 Jul 2021 11:16

Tgt Ion: 94 Resp: 485129

Ion Ratio Lower Upper

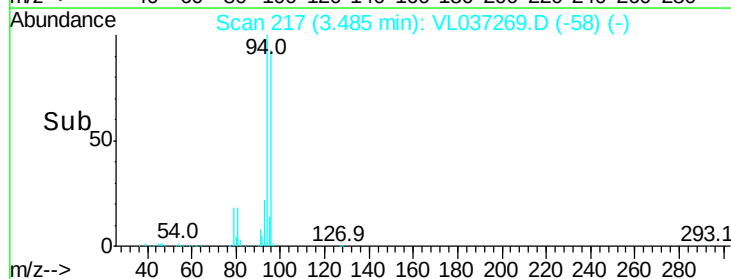
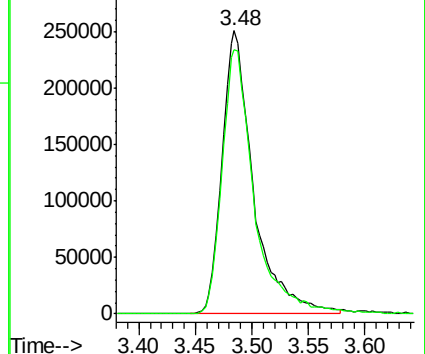
94 100

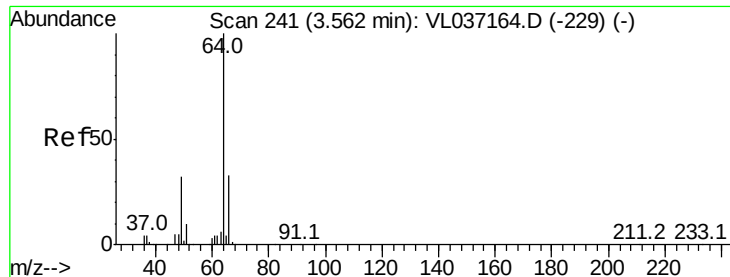
96 93.2 72.6 108.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.466 ppbv

RT: 3.57 min Scan# 243

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

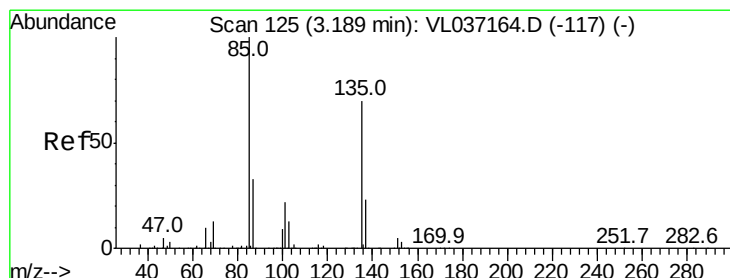
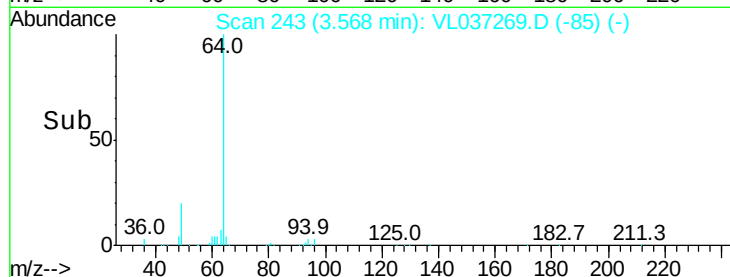
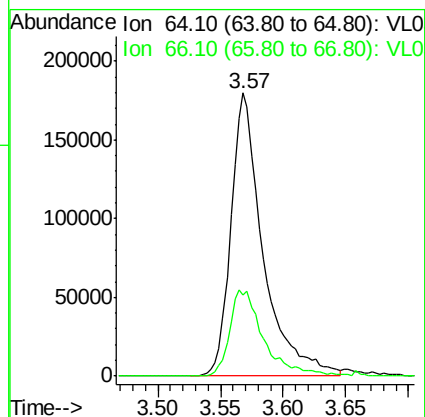
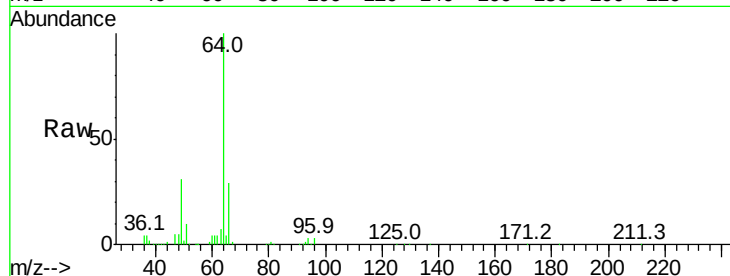
VL0702ABS01

Tgt Ion: 64 Resp: 320345

Ion Ratio Lower Upper

64 100

66 28.5 26.2 39.4



#8

Dichlorotetrafluoroethane

Concen: 9.200 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.01 min

Lab File: VL037269.D

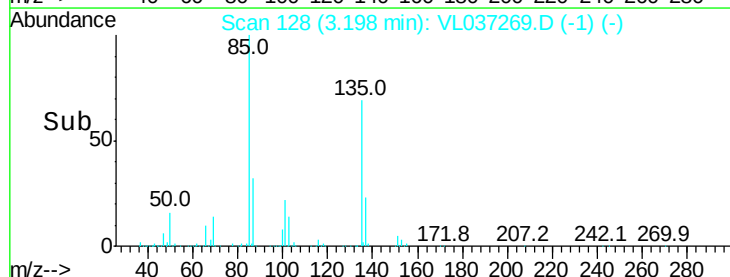
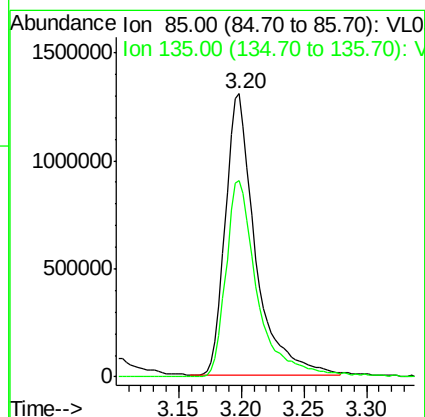
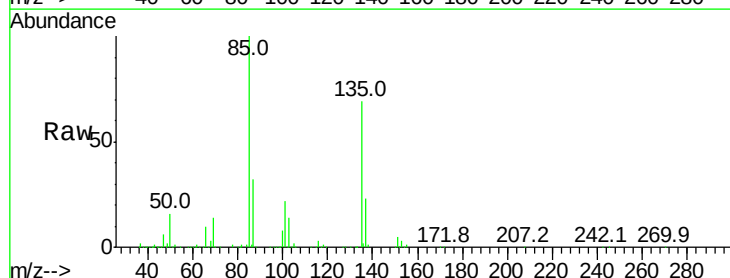
Acq: 2 Jul 2021 11:16

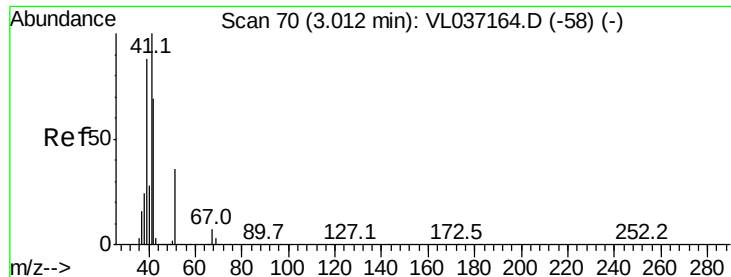
Tgt Ion: 85 Resp: 2181725

Ion Ratio Lower Upper

85 100

135 73.6 60.4 90.6





#9

Propene

Concen: 8.610 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

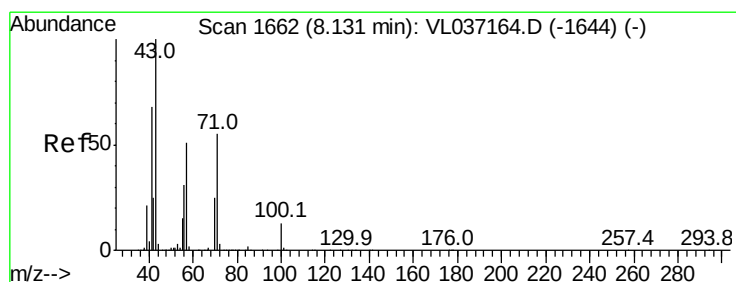
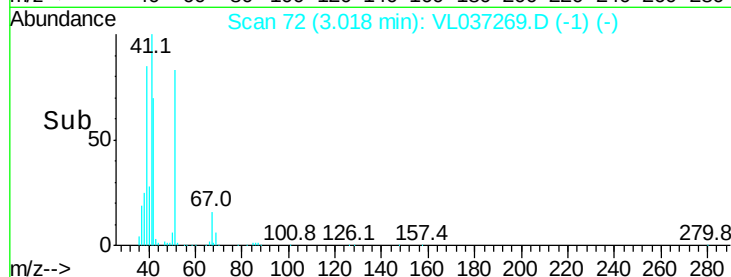
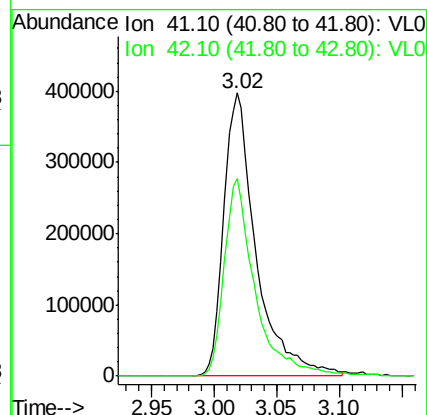
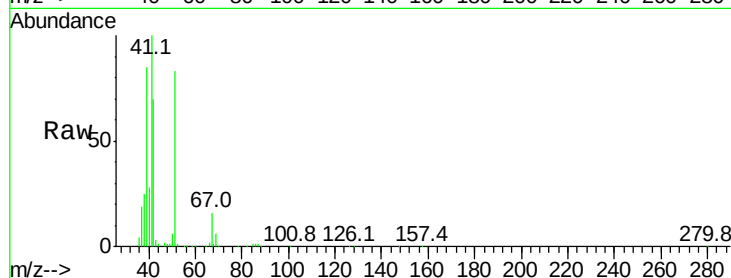
VL0702ABS01

Tgt Ion: 41 Resp: 711602

Ion Ratio Lower Upper

41 100

42 67.3 54.5 81.7



#10

Heptane

Concen: 9.295 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.01 min

Lab File: VL037269.D

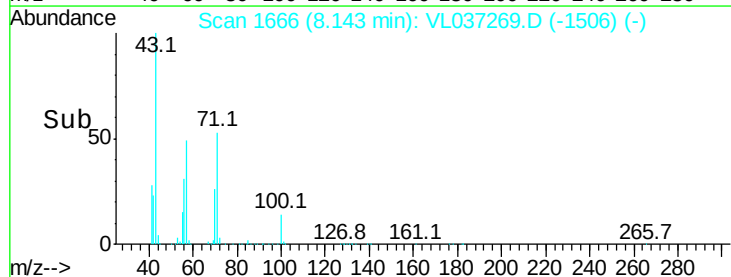
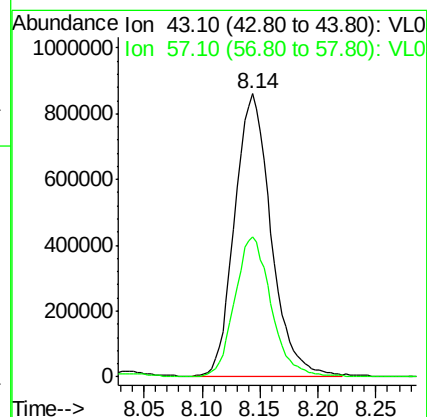
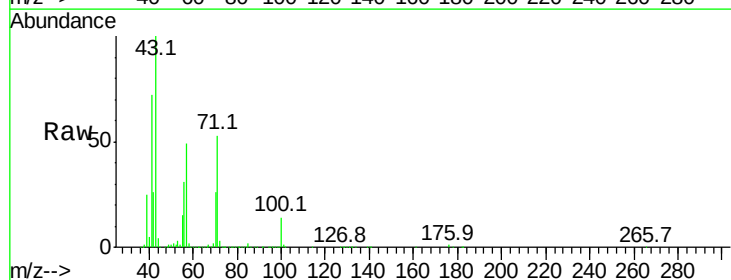
Acq: 2 Jul 2021 11:16

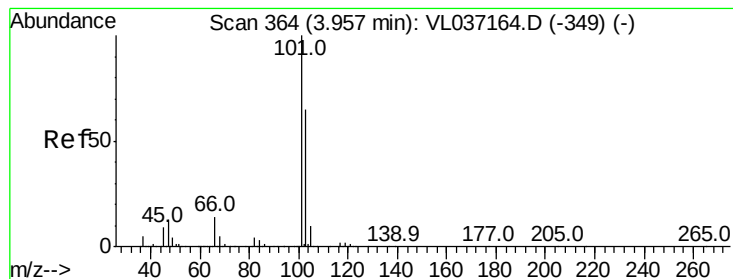
Tgt Ion: 43 Resp: 1860519

Ion Ratio Lower Upper

43 100

57 50.4 40.6 61.0





#11

Trichlorofluoromethane

Concen: 9.509 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

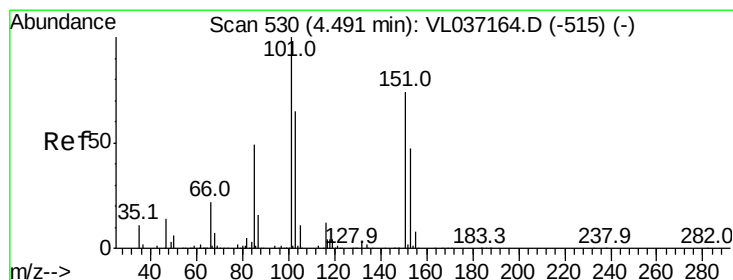
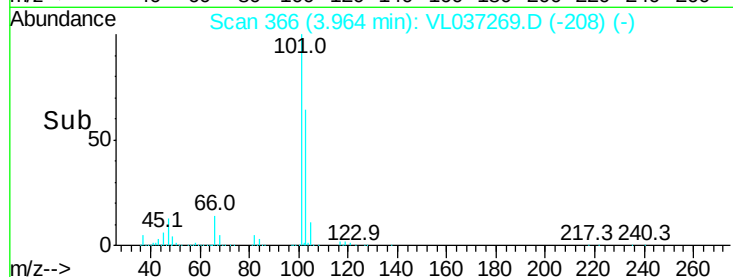
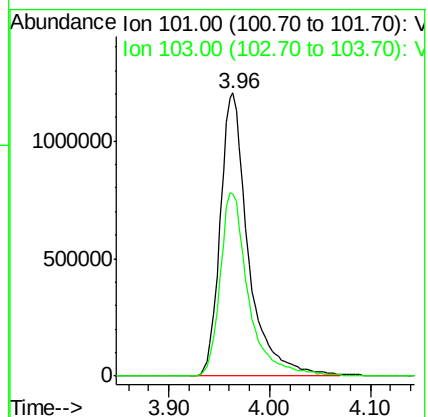
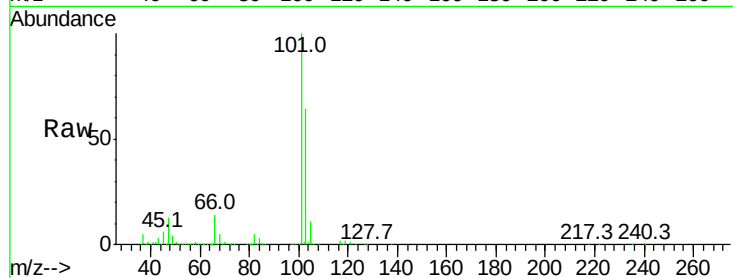
VL0702ABS01

Tgt Ion:101 Resp: 2345558

Ion Ratio Lower Upper

101 100

103 64.4 52.2 78.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.873 ppbv

RT: 4.50 min Scan# 533

Delta R.T. 0.01 min

Lab File: VL037269.D

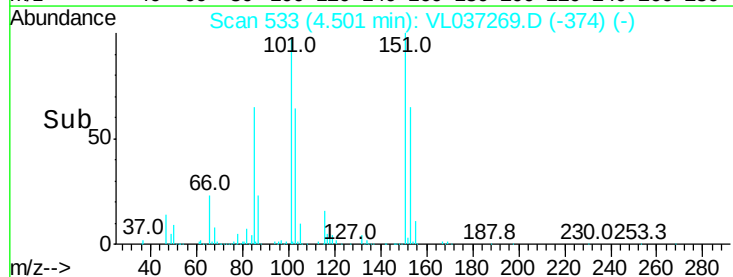
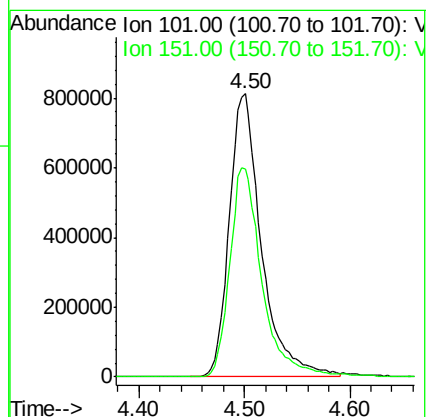
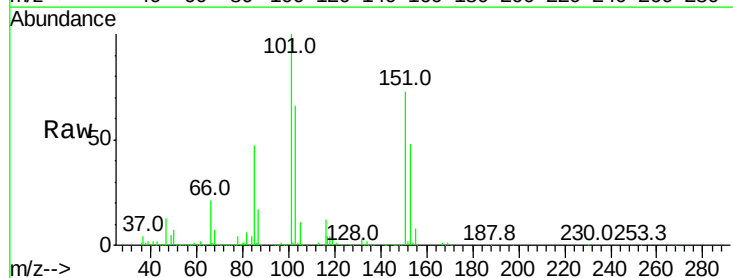
Acq: 2 Jul 2021 11:16

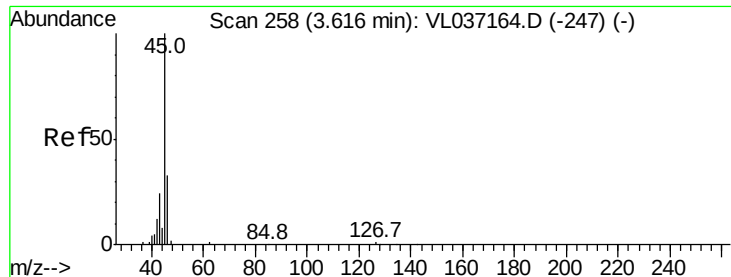
Tgt Ion:101 Resp: 1716787

Ion Ratio Lower Upper

101 100

151 74.4 59.1 88.7





#13

Ethanol

Concen: 4.997 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

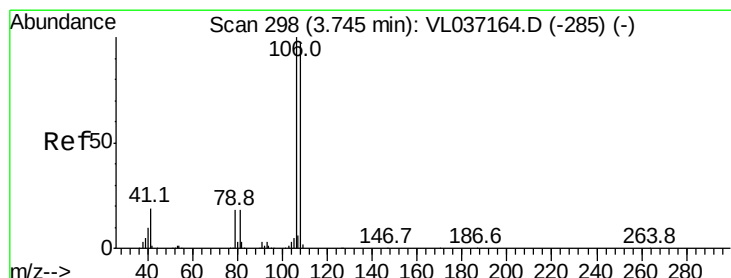
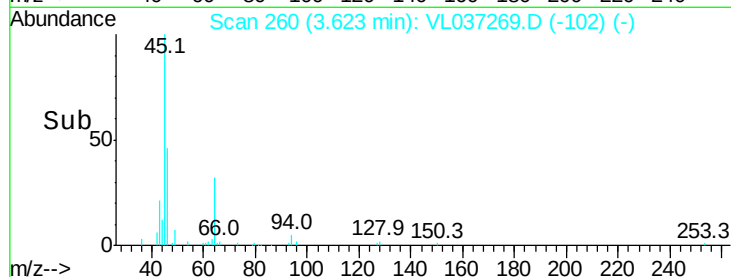
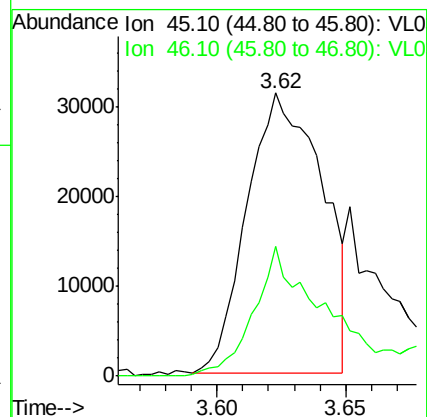
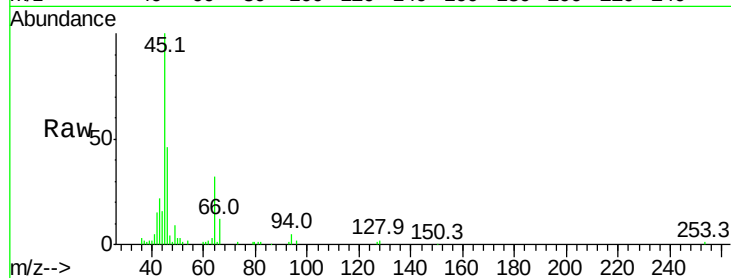
VL0702ABS01

Tgt Ion: 45 Resp: 63878

Ion Ratio Lower Upper

45 100

46 48.2 34.2 137.0



#14

Bromoethene

Concen: 9.218 ppbv

RT: 3.75 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

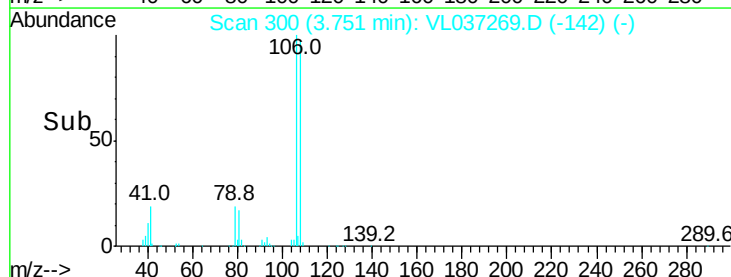
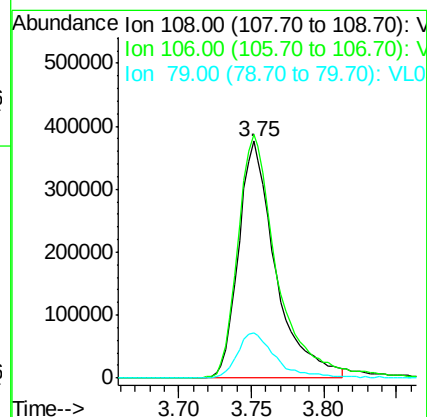
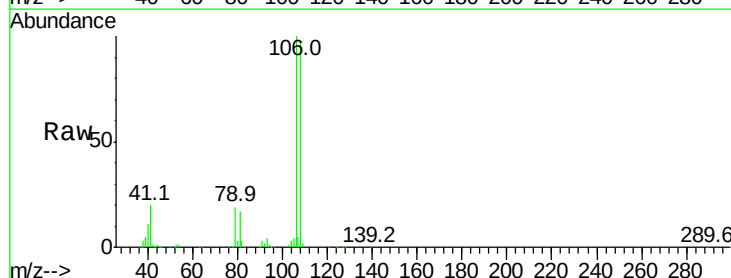
Tgt Ion: 108 Resp: 668984

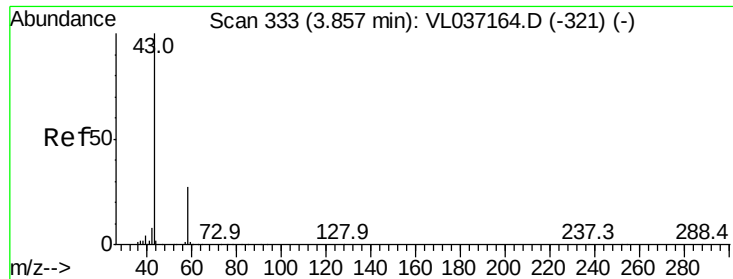
Ion Ratio Lower Upper

108 100

106 110.7 86.8 130.2

79 20.7 15.6 23.4





#15

Acetone

Concen: 7.715 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

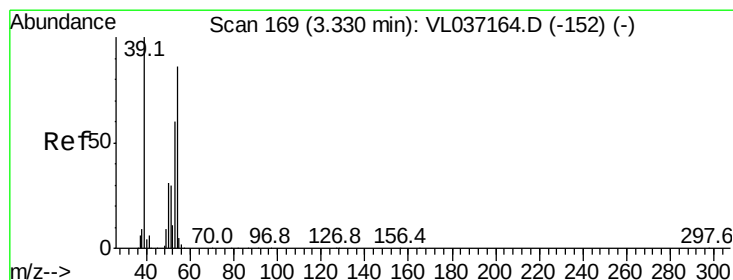
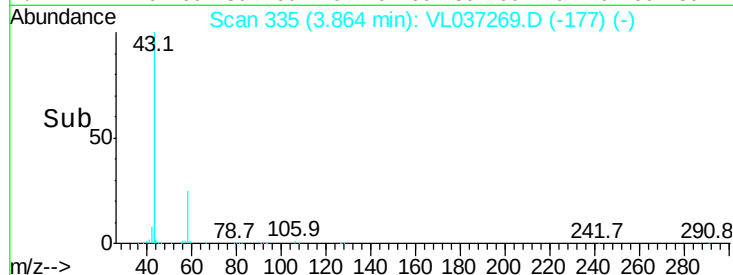
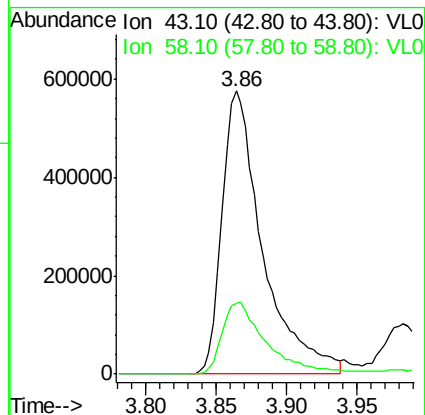
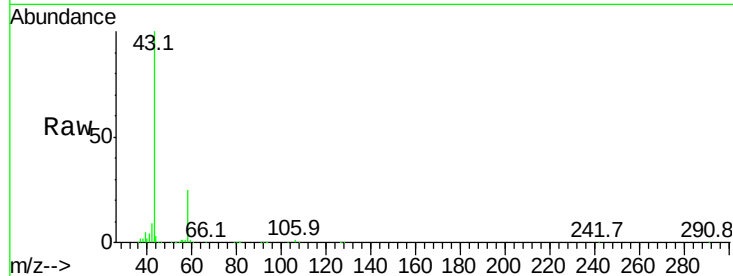
VL0702ABS01

Tgt Ion: 43 Resp: 1156517

Ion Ratio Lower Upper

43 100

58 28.1 23.7 35.5



#16

1,3-Butadiene

Concen: 9.494 ppbv

RT: 3.34 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL037269.D

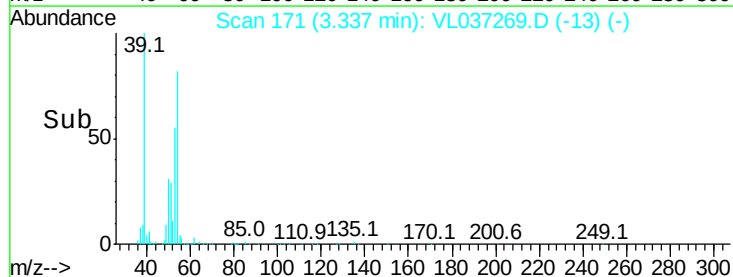
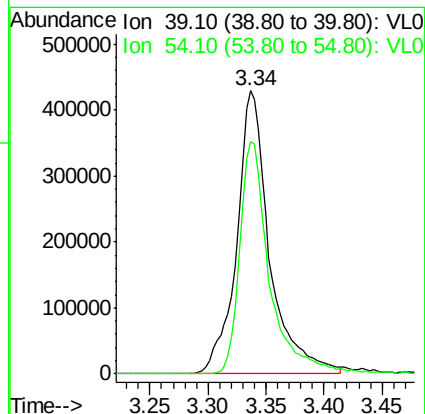
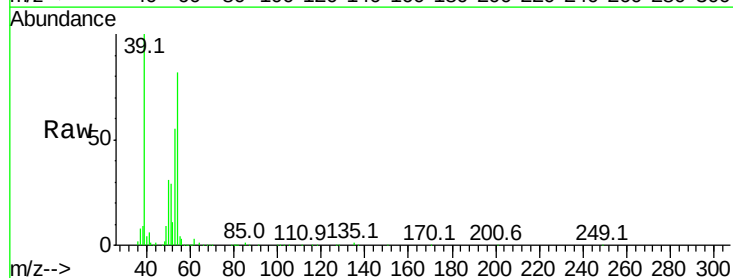
Acq: 2 Jul 2021 11:16

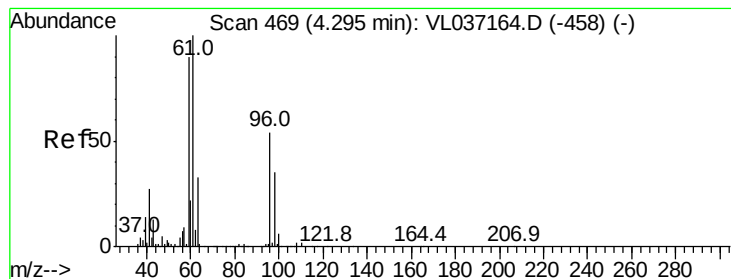
Tgt Ion: 39 Resp: 841287

Ion Ratio Lower Upper

39 100

54 75.2 61.2 91.8





#17

tert-Butyl alcohol

Concen: 10.485 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

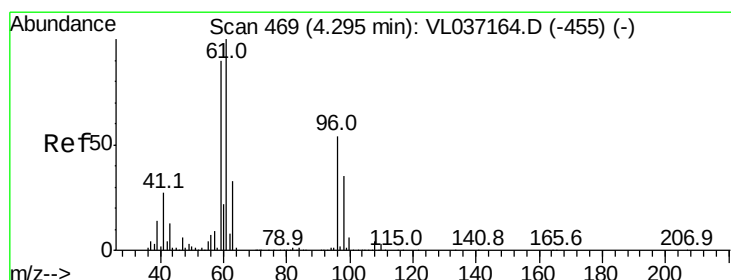
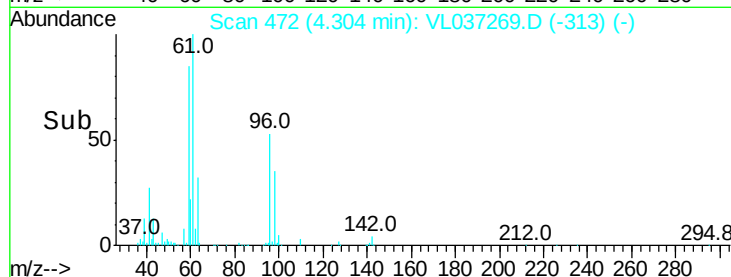
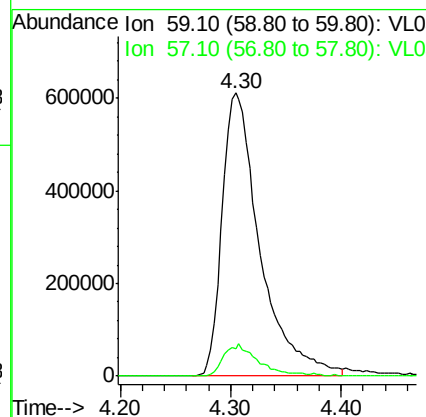
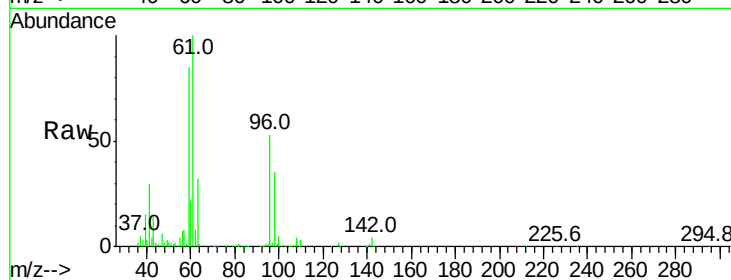
VL0702ABS01

Tgt Ion: 59 Resp: 1452562

Ion Ratio Lower Upper

59 100

57 11.1 8.8 13.2



#18

1,1-Dichloroethene

Concen: 9.670 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

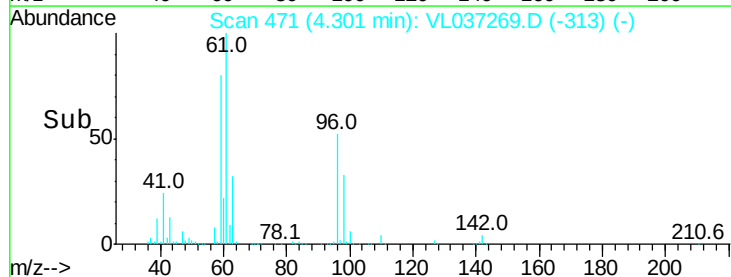
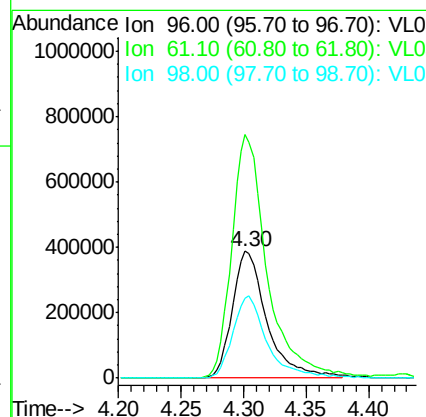
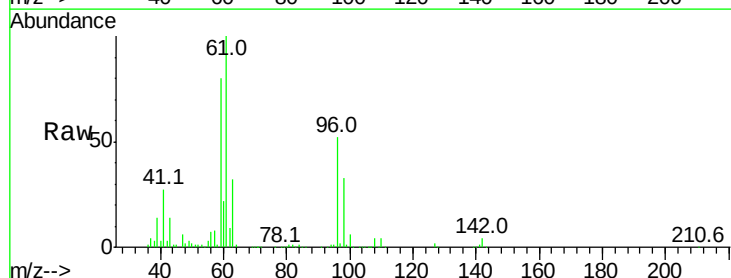
Tgt Ion: 96 Resp: 745120

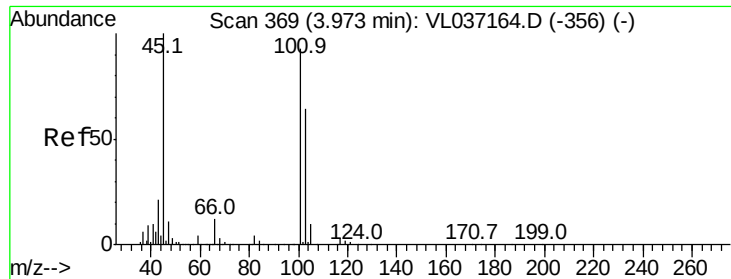
Ion Ratio Lower Upper

96 100

61 192.3 148.6 222.8

98 62.9 51.9 77.9





#19

Isopropyl Alcohol

Concen: 9.136 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

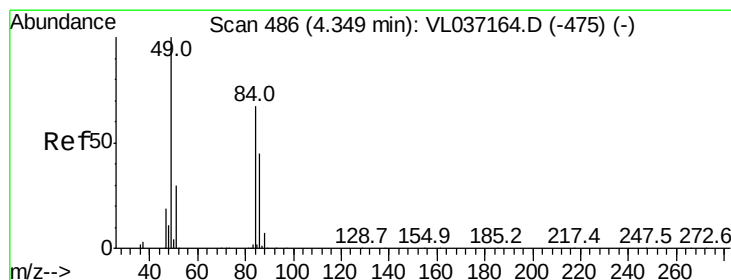
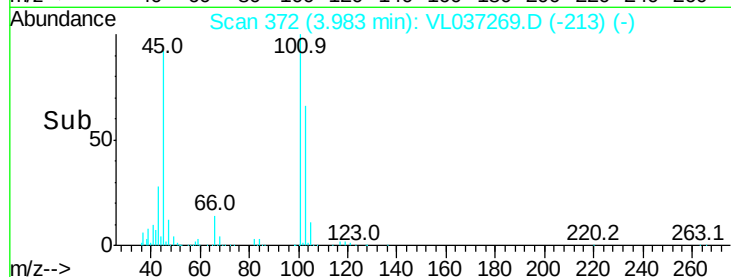
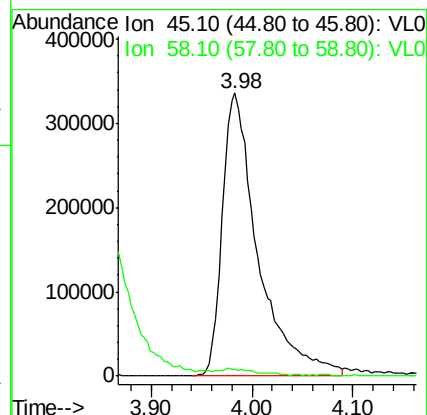
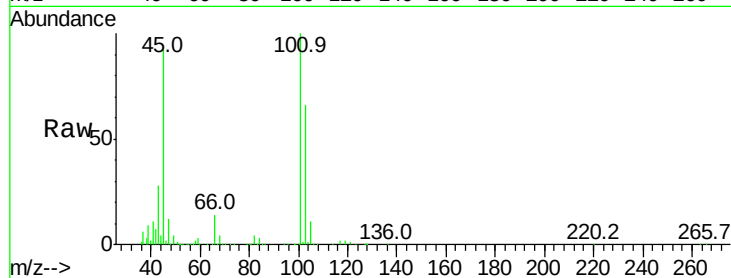
VL0702ABS01

Tgt Ion: 45 Resp: 829478

Ion Ratio Lower Upper

45 100

58 2.5 2.4 3.6



#20

Methylene Chloride

Concen: 7.093 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Tgt Ion: 84 Resp: 636502

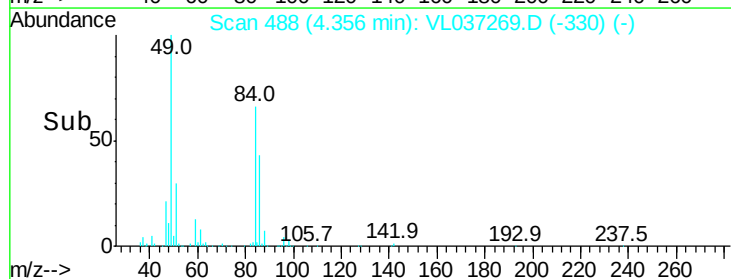
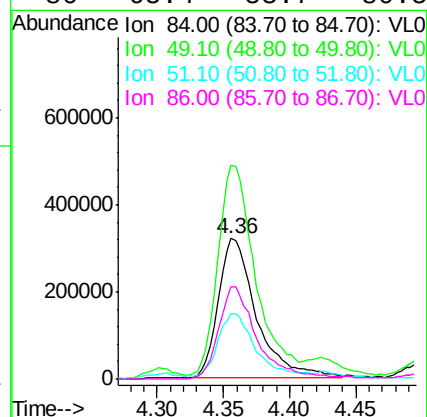
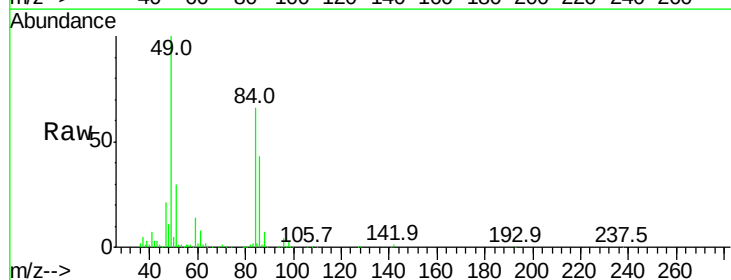
Ion Ratio Lower Upper

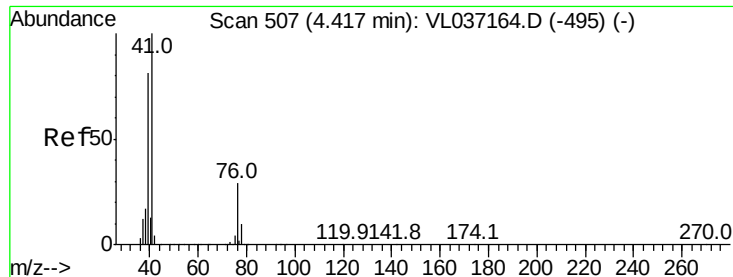
84 100

49 149.4 119.7 179.5

51 44.7 36.1 54.1

86 65.4 53.7 80.5





#21

Allyl Chloride

Concen: 9.366 ppbv

RT: 4.43 min Scan# 510

Delta R.T. 0.01 min

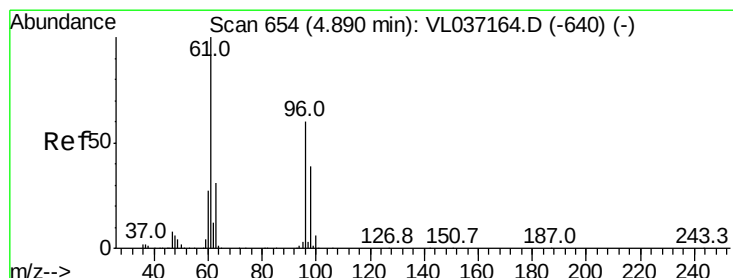
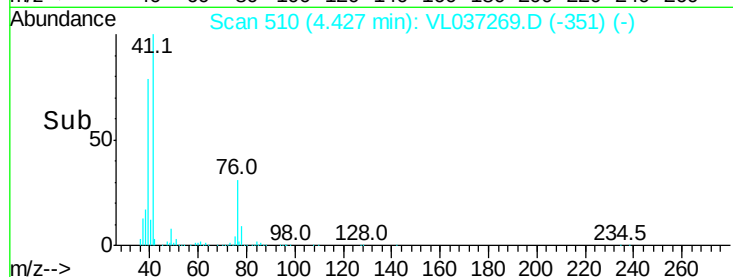
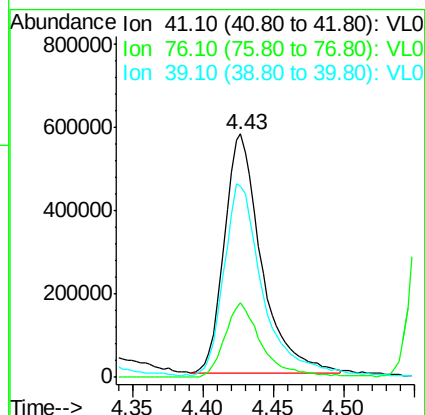
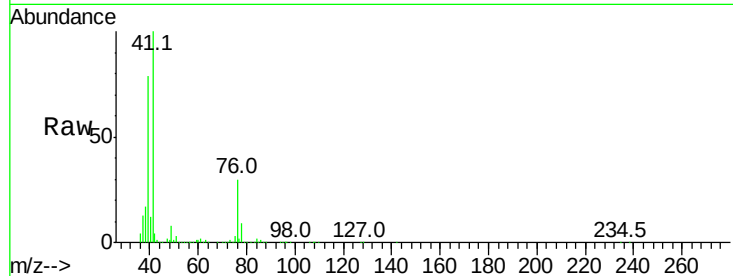
Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tgt Ion: 41 Resp: 1058236

Ion	Ratio	Lower	Upper
41	100		
76	31.4	24.6	37.0
39	84.6	65.4	98.0



#22

trans-1,2-Dichloroethene

Concen: 10.339 ppbv

RT: 4.90 min Scan# 657

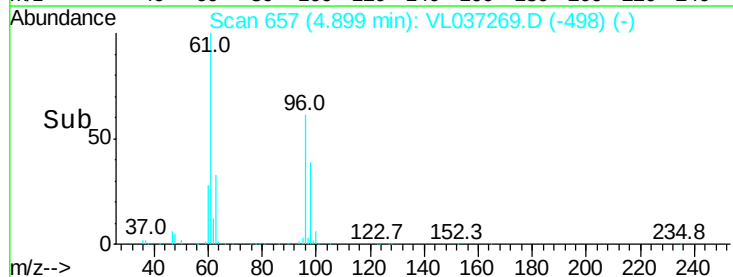
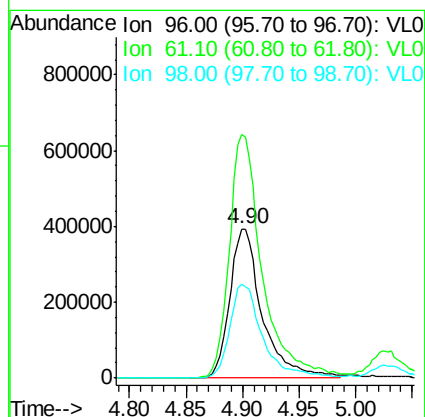
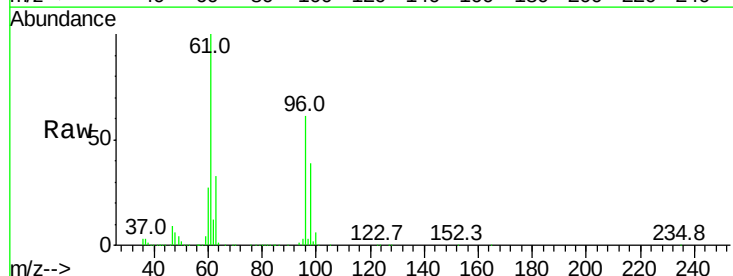
Delta R.T. 0.01 min

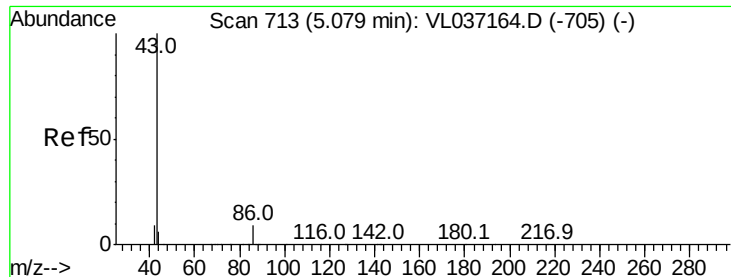
Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Tgt Ion: 96 Resp: 788318

Ion	Ratio	Lower	Upper
96	100		
61	163.2	133.9	200.9
98	62.9	52.9	79.3





#23

Vinyl Acetate

Concen: 8.600 ppbv

RT: 5.09 min Scan# 716

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tgt Ion: 43 Resp: 1848419

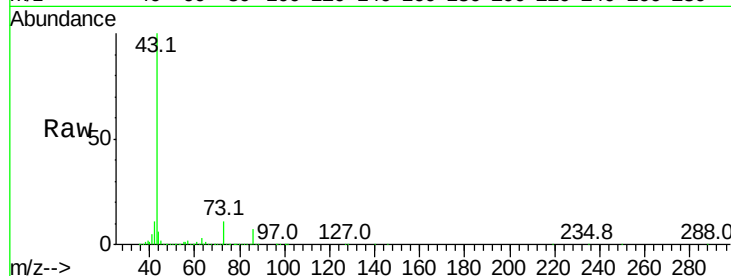
Ion	Ratio	Lower	Upper
43	100		
86	7.3	5.8	8.8
42	10.5	8.2	12.2
44	5.2	4.2	6.4

43 100

86 7.3 5.8 8.8

42 10.5 8.2 12.2

44 5.2 4.2 6.4

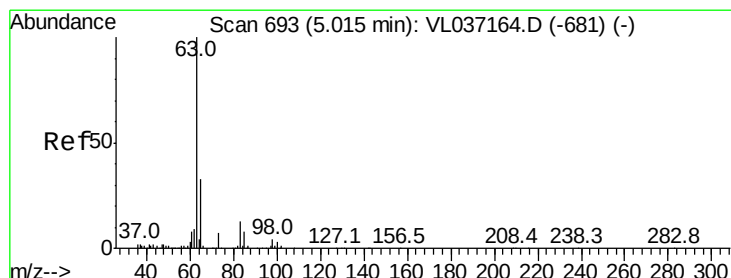
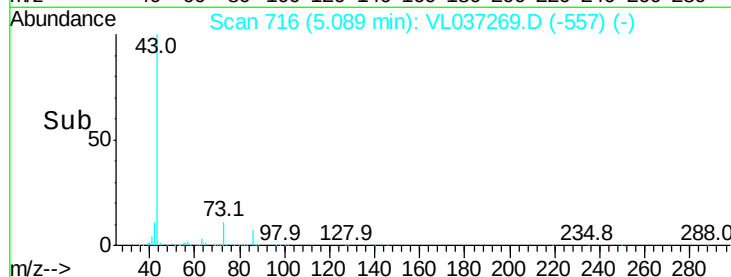
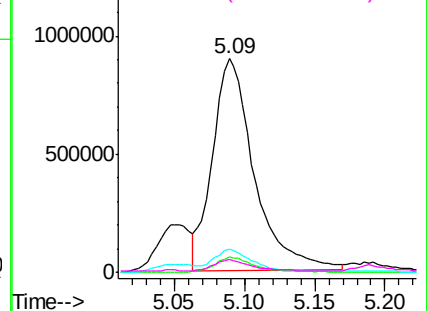


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.955 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

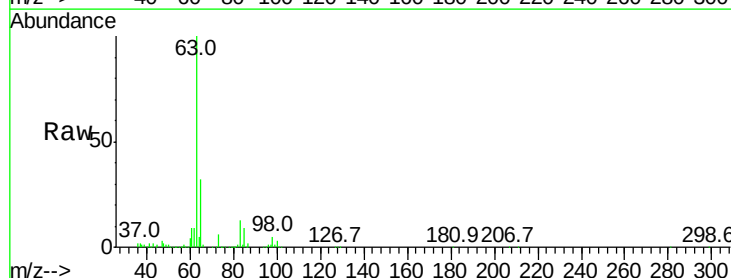
Tgt Ion: 63 Resp: 1549599

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.1	6.5
100	2.7	1.4	4.0

63 100

98 4.5 2.1 6.5

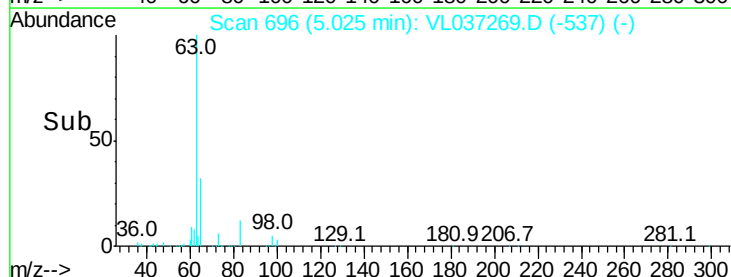
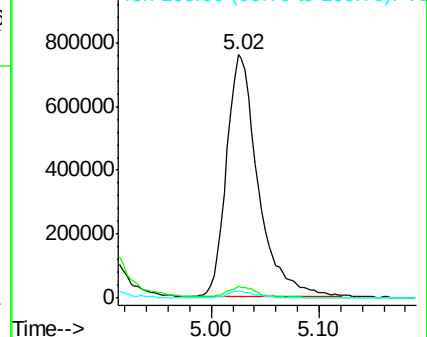
100 2.7 1.4 4.0

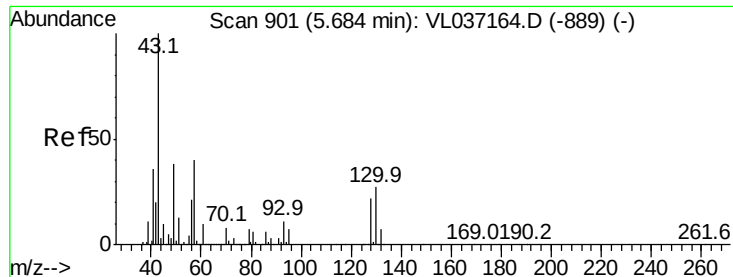


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



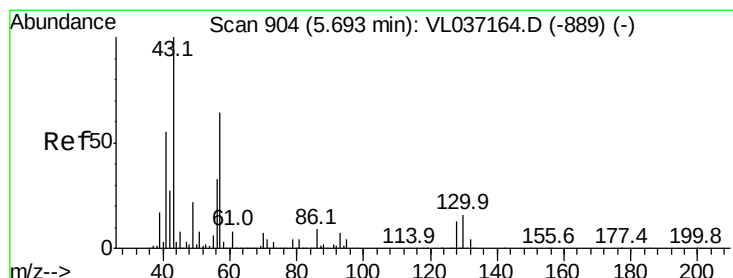
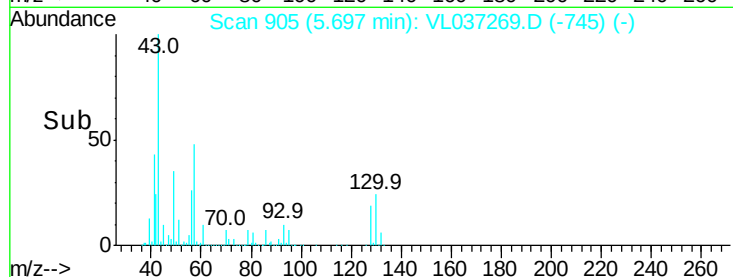
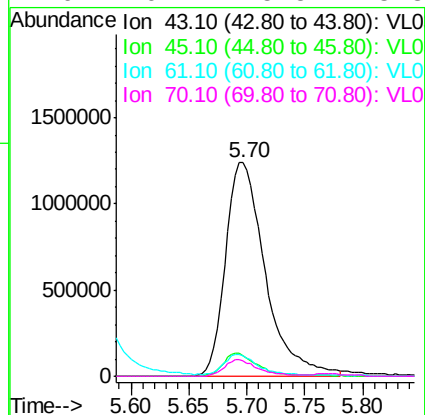
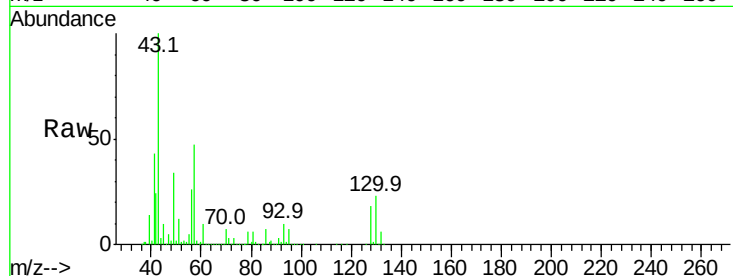


#25
Ethyl Acetate
Concen: 9.064 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tgt Ion: 43 Resp: 2941370

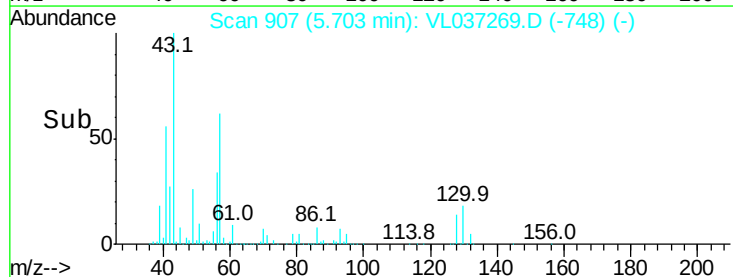
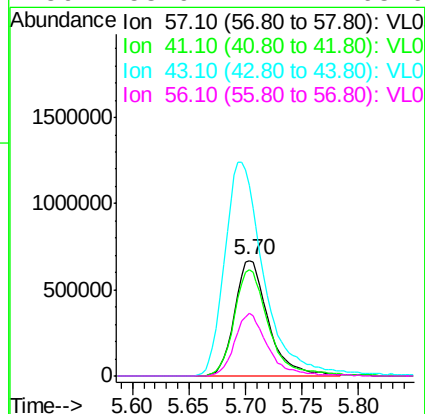
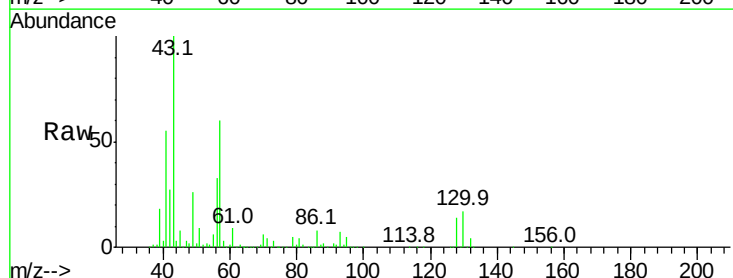
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.8	8.1	12.1
70	6.7	5.5	8.3

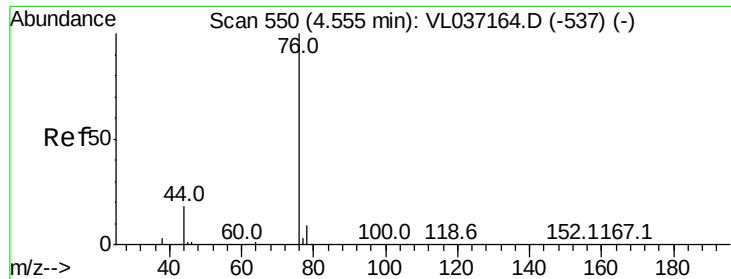


#26
Hexane
Concen: 8.486 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

Tgt Ion: 57 Resp: 1391875

Ion	Ratio	Lower	Upper
57	100		
41	95.0	73.5	110.3
43	215.8	170.7	256.1
56	53.9	42.4	63.6





#27

Carbon Disulfide

Concen: 10.899 ppbv

RT: 4.56 min Scan# 553

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

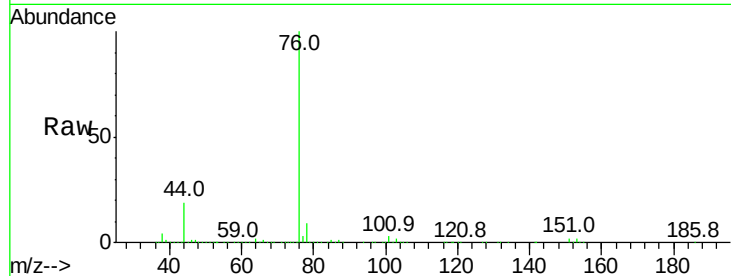
Tgt Ion: 76 Resp: 1751445

Ion Ratio Lower Upper

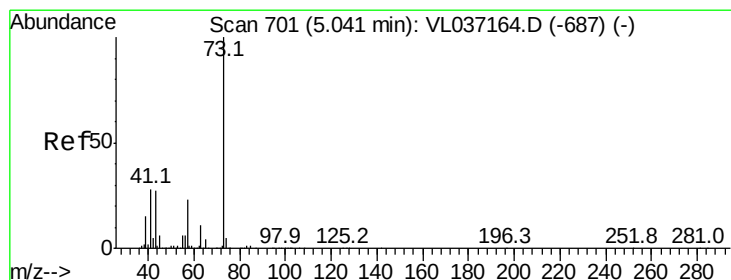
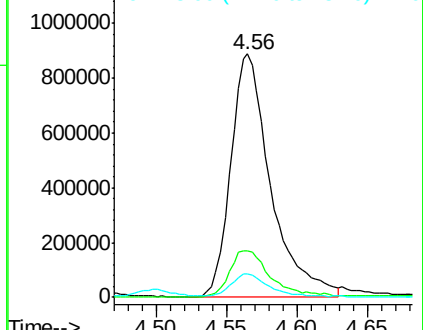
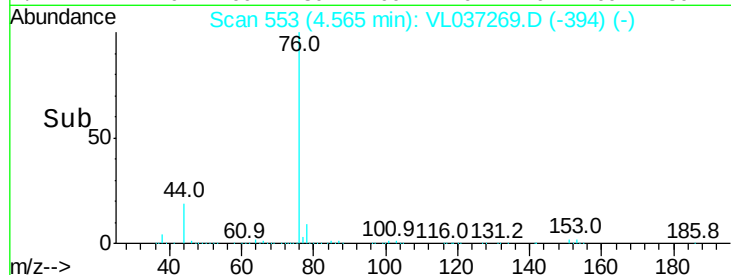
76 100

44 19.9 15.4 23.2

78 10.0 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: 8.247 ppbv

RT: 5.05 min Scan# 704

Delta R.T. 0.01 min

Lab File: VL037269.D

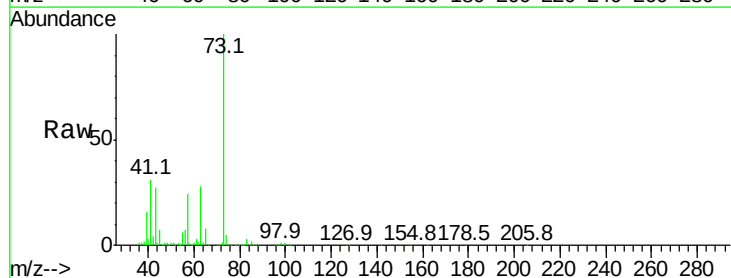
Acq: 2 Jul 2021 11:16

Tgt Ion: 73 Resp: 1626106

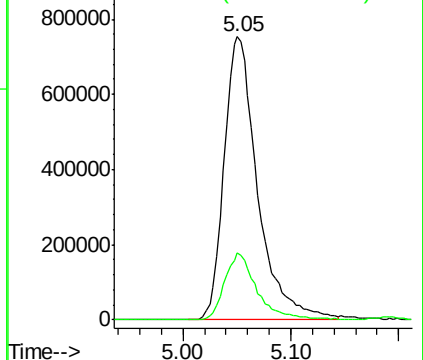
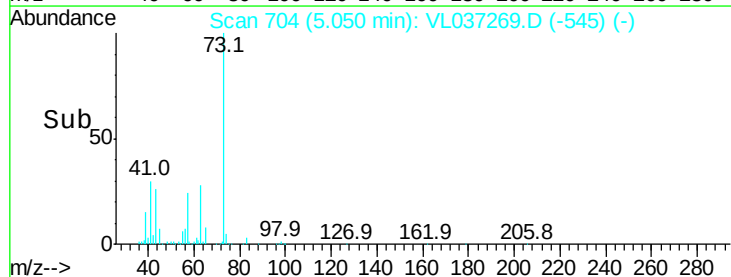
Ion Ratio Lower Upper

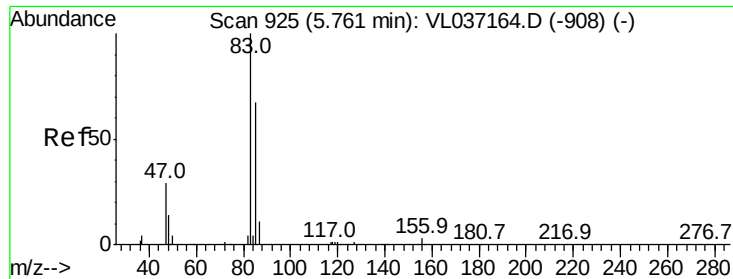
73 100

57 23.1 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.265 ppbv

RT: 5.77 min Scan# 928

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

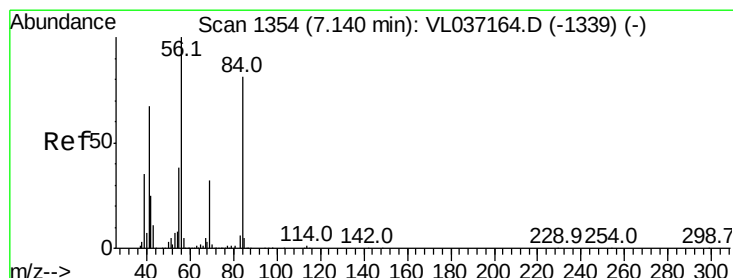
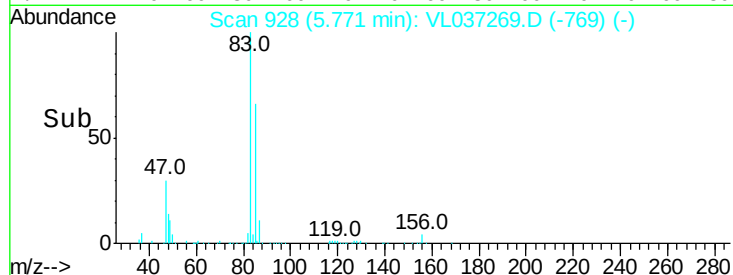
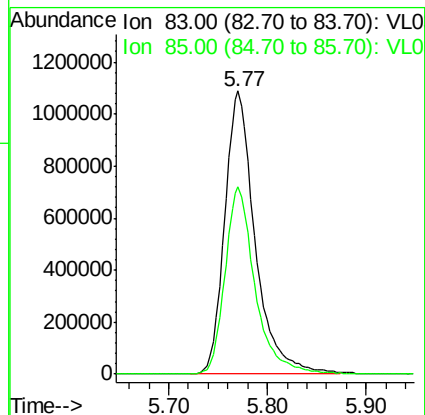
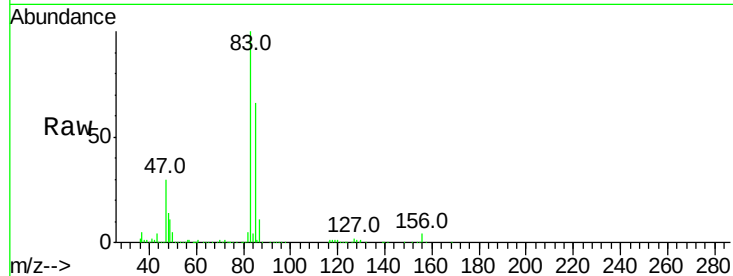
VL0702ABS01

Tgt Ion: 83 Resp: 2347458

Ion Ratio Lower Upper

83 100

85 66.2 53.6 80.4



#30

Cyclohexane

Concen: 8.974 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

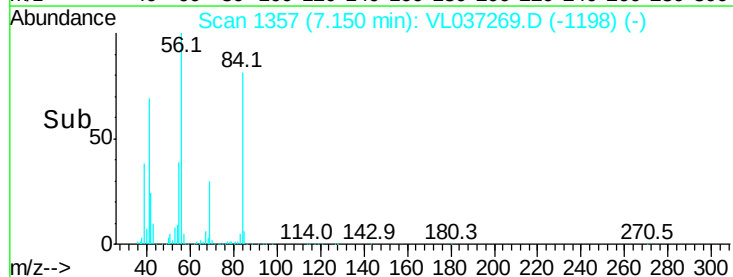
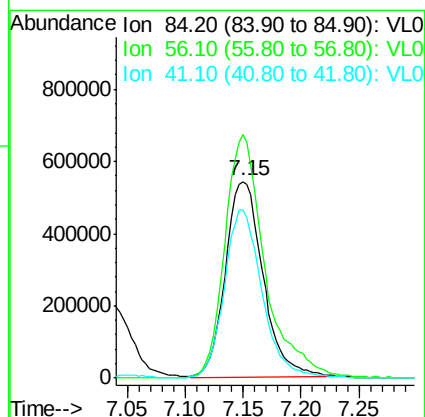
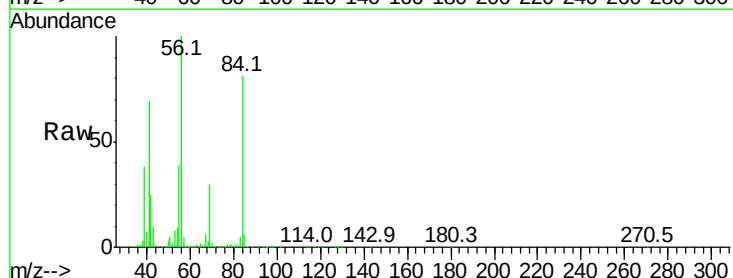
Tgt Ion: 84 Resp: 1226349

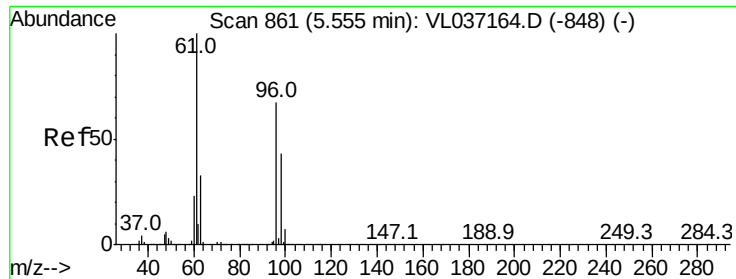
Ion Ratio Lower Upper

84 100

56 133.0 107.7 161.5

41 86.5 69.0 103.6





#31

cis-1,2-Dichloroethene

Concen: 9.395 ppbv

RT: 5.56 min Scan# 864

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

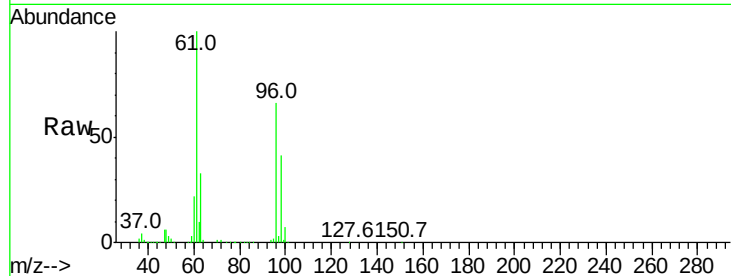
Tgt Ion: 61 Resp: 1415887

Ion Ratio Lower Upper

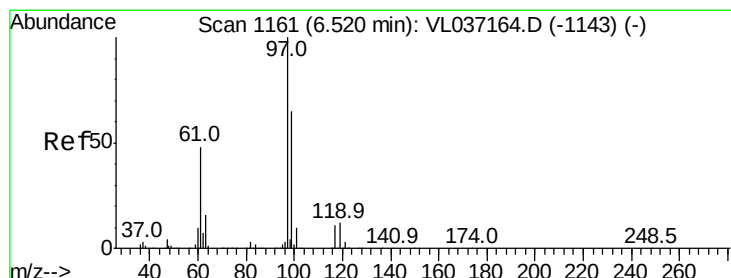
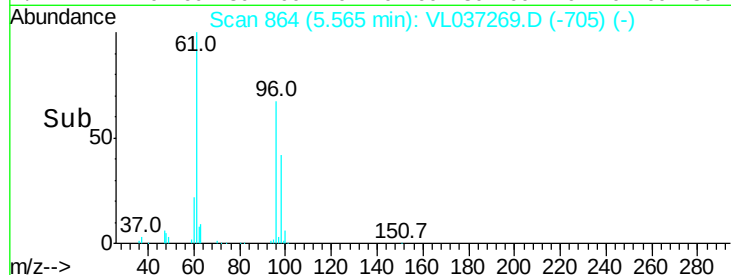
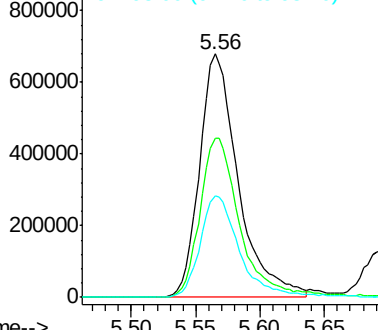
61 100

96 65.5 53.6 80.4

98 41.5 34.7 52.1



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: 9.006 ppbv

RT: 6.53 min Scan# 1165

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

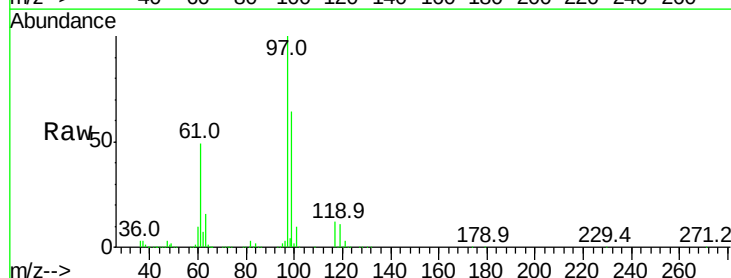
Tgt Ion: 97 Resp: 2441741

Ion Ratio Lower Upper

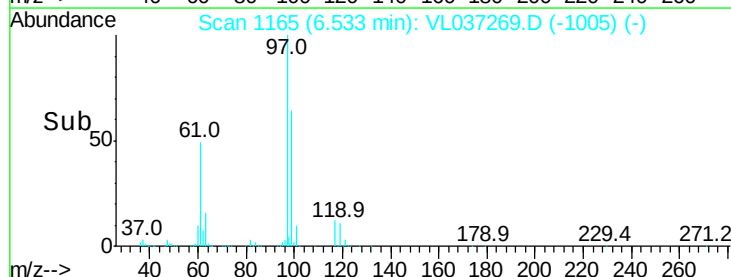
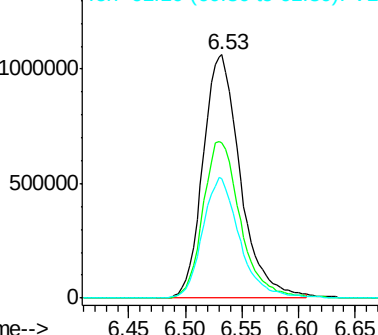
97 100

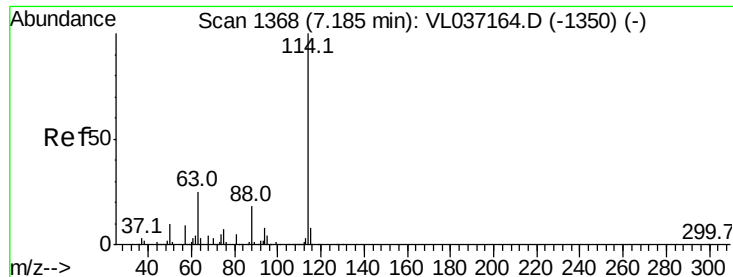
99 65.1 52.2 78.4

61 49.4 38.8 58.2



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: 7.19 min Scan# 1371

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

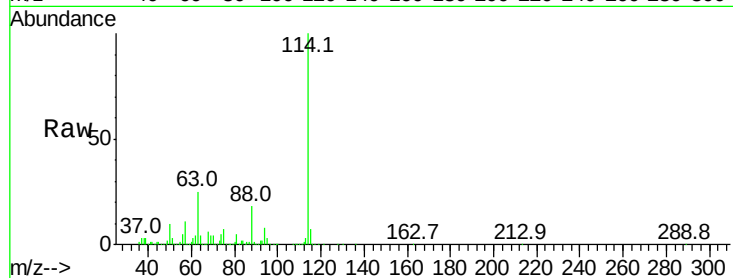
Tgt Ion:114 Resp: 3912317

Ion Ratio Lower Upper

114 100

63 25.2 19.6 29.4

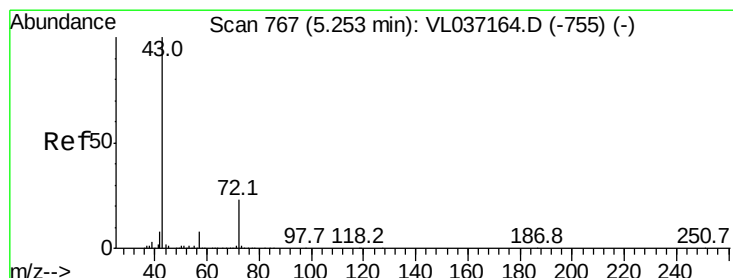
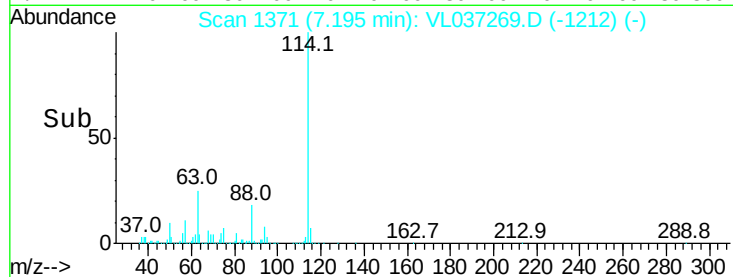
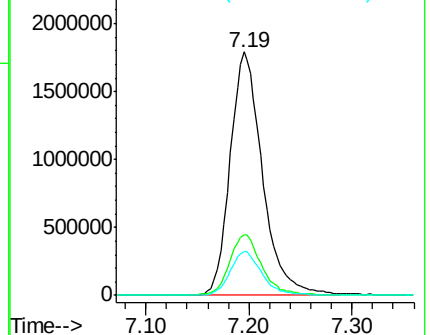
88 17.9 14.2 21.2



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: 8.269 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.01 min

Lab File: VL037269.D

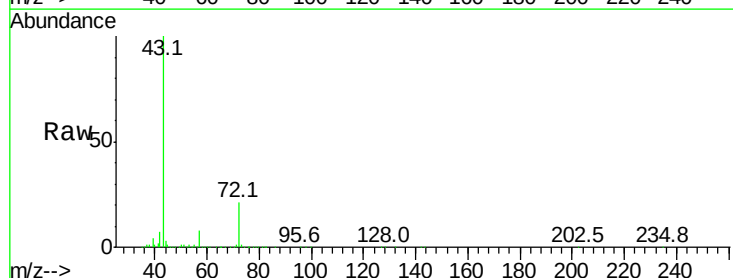
Acq: 2 Jul 2021 11:16

Tgt Ion: 43 Resp: 1258192

Ion Ratio Lower Upper

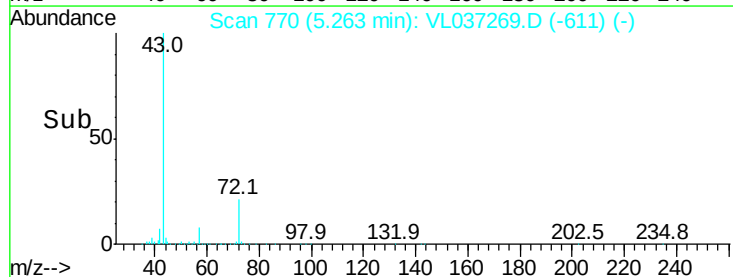
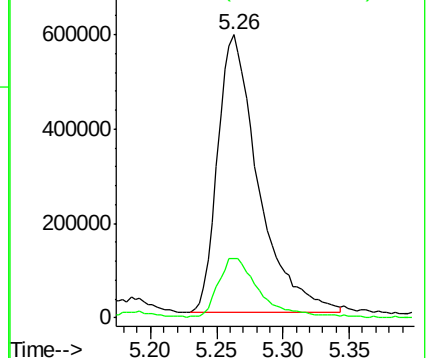
43 100

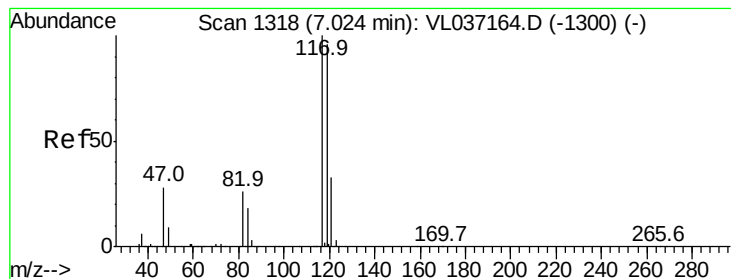
72 22.5 18.9 28.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.020 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

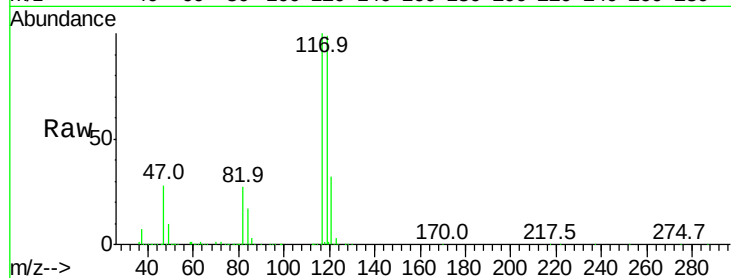
Tgt Ion:117 Resp: 2629336

Ion Ratio Lower Upper

117 100

119 99.1 76.6 114.8

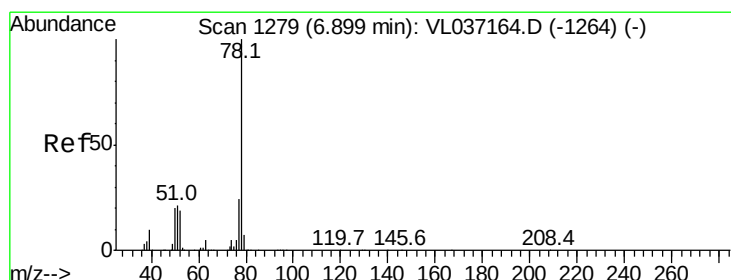
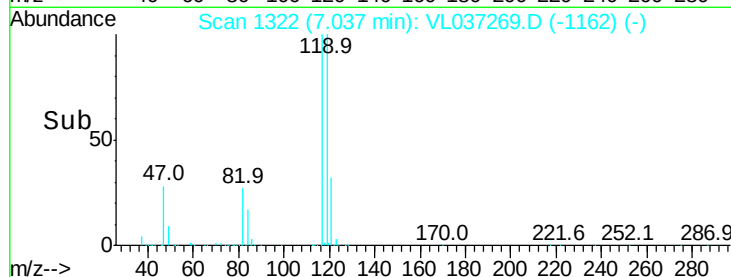
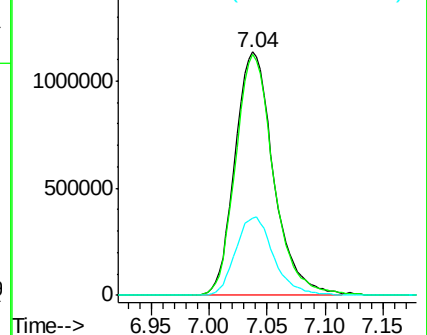
121 31.7 26.4 39.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.201 ppbv

RT: 6.91 min Scan# 1283

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

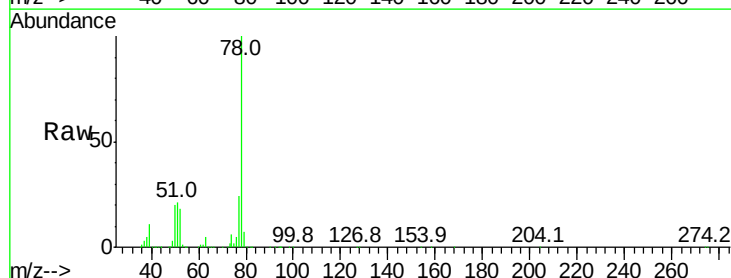
Tgt Ion: 78 Resp: 2910868

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.6

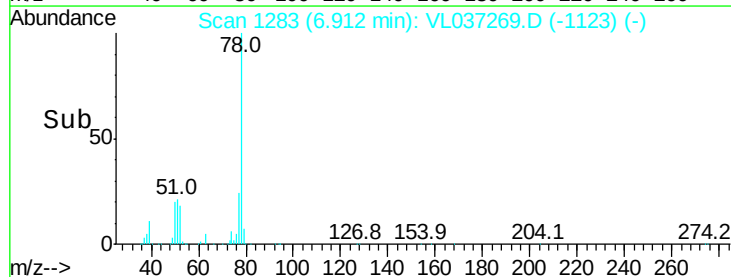
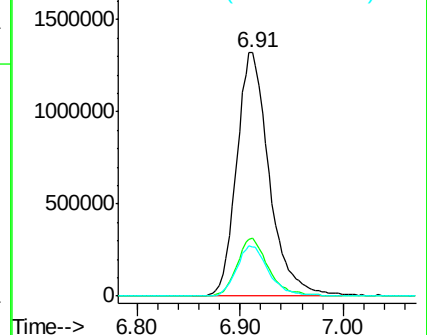
50 20.1 15.7 23.5

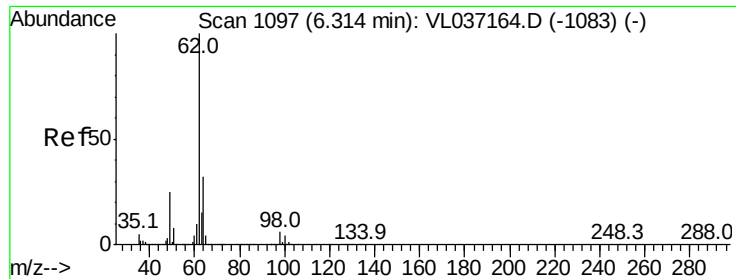


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.723 ppbv

RT: 6.33 min Scan# 1101

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

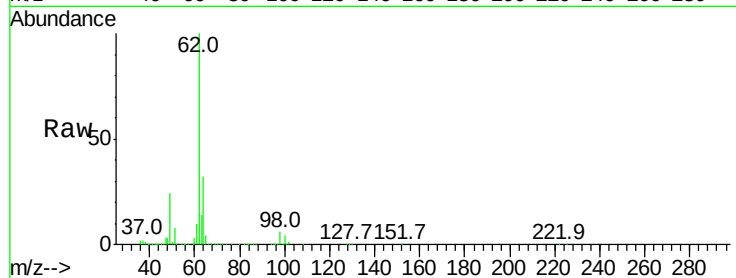
VL0702ABS01

Tgt Ion: 62 Resp: 1786871

Ion Ratio Lower Upper

62 100

98 6.0 5.0 7.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.33

800000

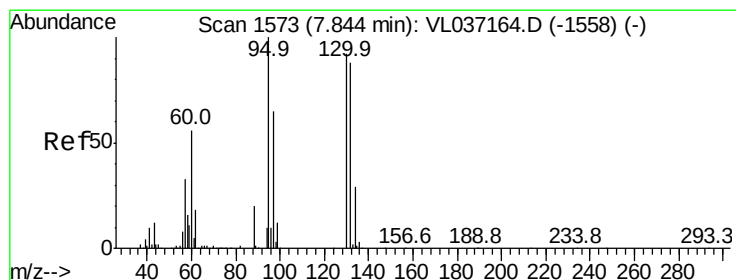
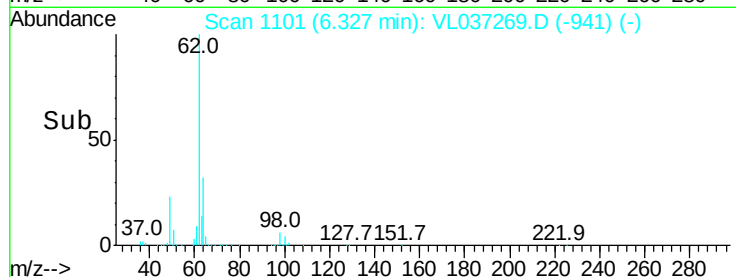
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 8.420 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Tgt Ion: 130 Resp: 1266142

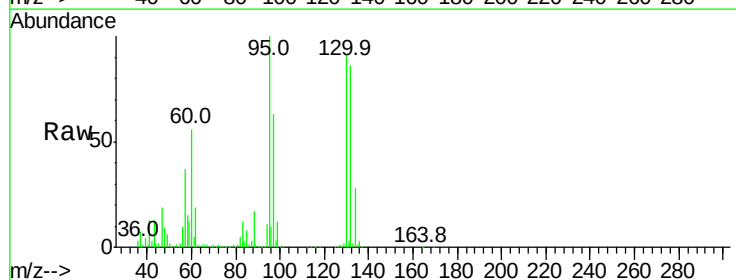
Ion Ratio Lower Upper

130 100

95 110.0 86.6 129.8

132 94.2 76.6 114.8

97 68.9 56.1 84.1



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

1000000

800000

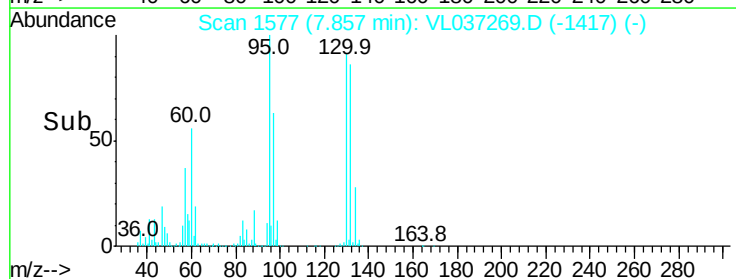
600000

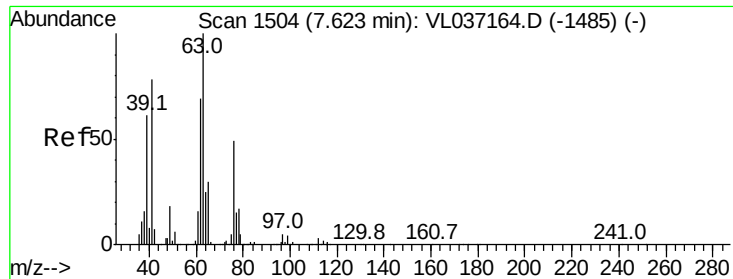
400000

200000

0

Time-->





#39

1,2-Dichloropropane

Concen: 9.476 ppbv

RT: 7.64 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

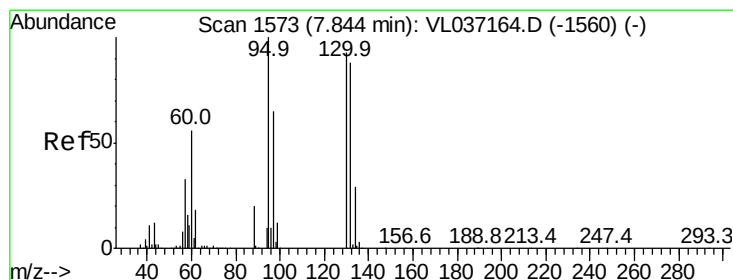
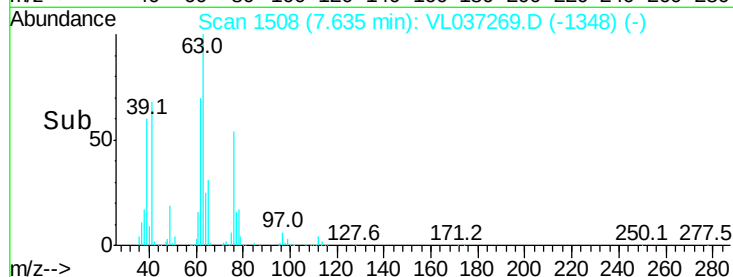
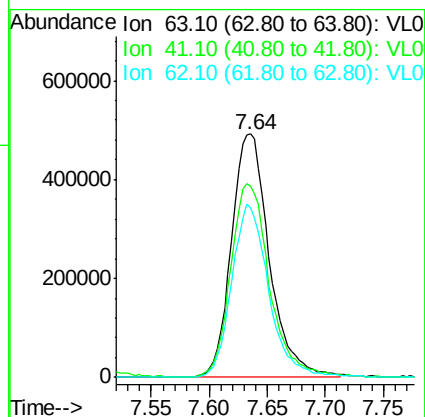
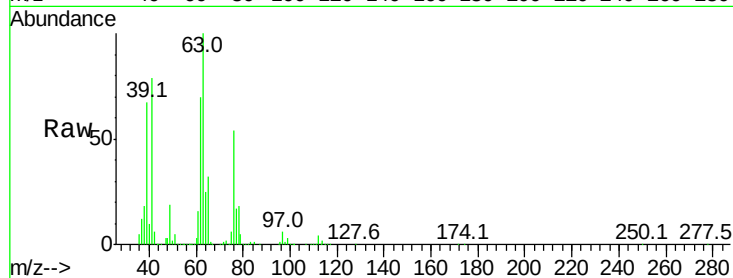
Tgt Ion: 63 Resp: 1113973

Ion Ratio Lower Upper

63 100

41 78.4 62.0 93.0

62 69.7 54.9 82.3



#40

1,4-Dioxane

Concen: 3.757 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Tgt Ion: 88 Resp: 121123

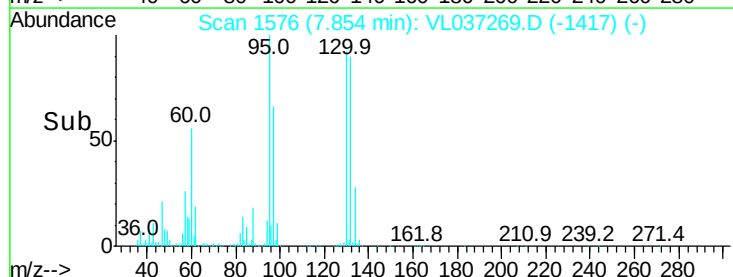
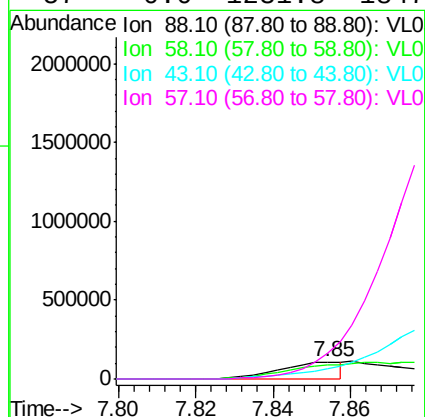
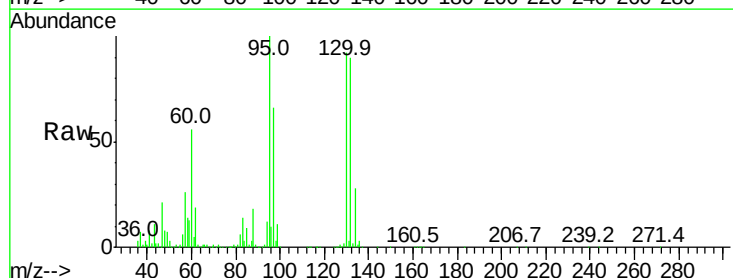
Ion Ratio Lower Upper

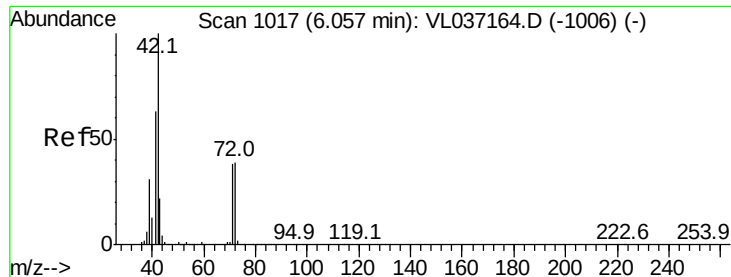
88 100

58 0.0 118.4 177.6#

43 0.0 284.0 426.0#

57 0.0 1231.8 1847.6#





#41

Tetrahydrofuran

Concen: 9.669 ppbv

RT: 6.07 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

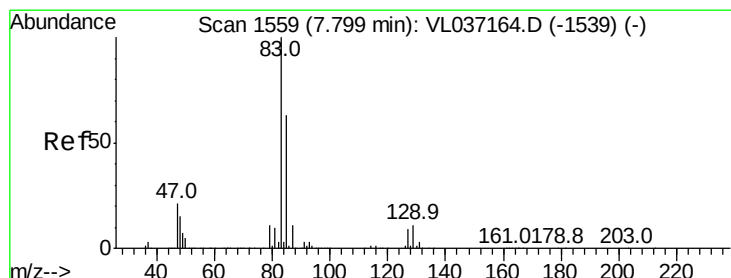
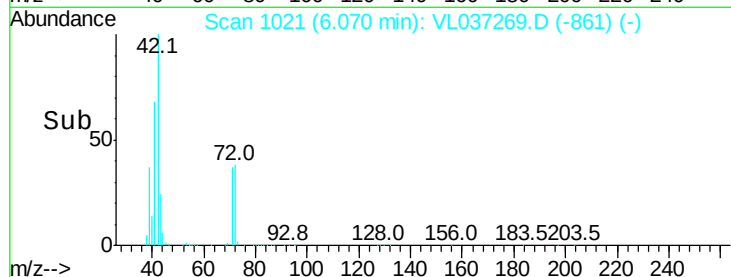
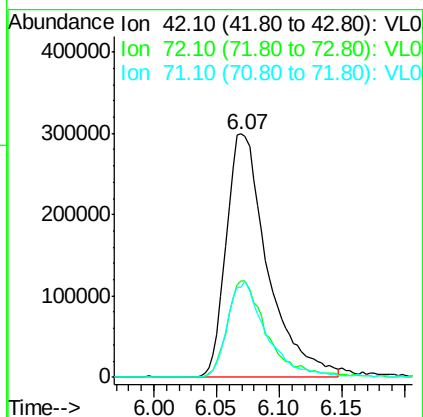
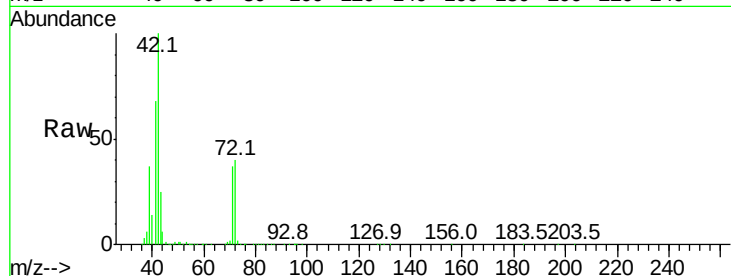
Tgt Ion: 42 Resp: 683350

Ion Ratio Lower Upper

42 100

72 39.1 33.0 49.4

71 38.0 31.0 46.6



#42

Bromodichloromethane

Concen: 9.845 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

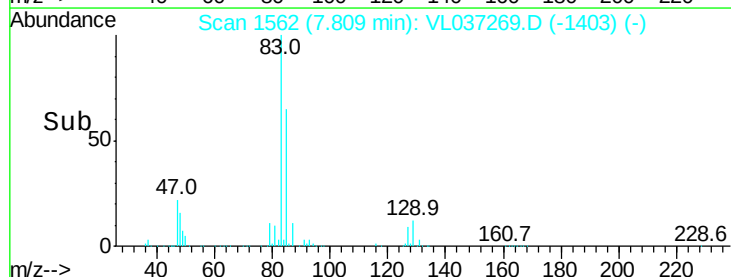
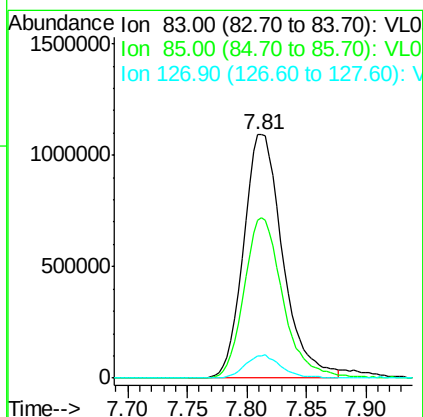
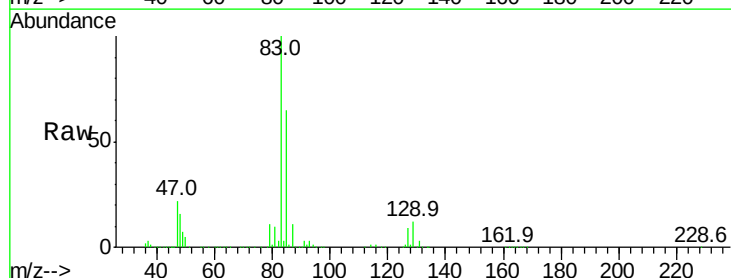
Tgt Ion: 83 Resp: 2496065

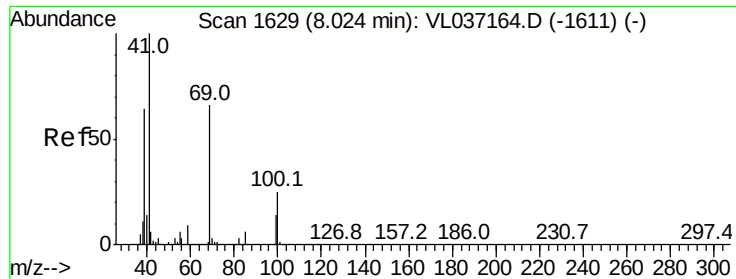
Ion Ratio Lower Upper

83 100

85 64.7 50.8 76.2

127 9.1 7.0 10.6

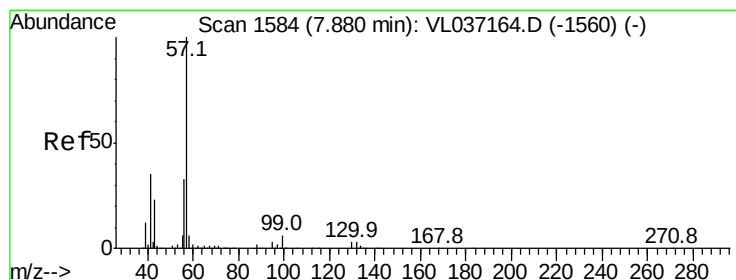
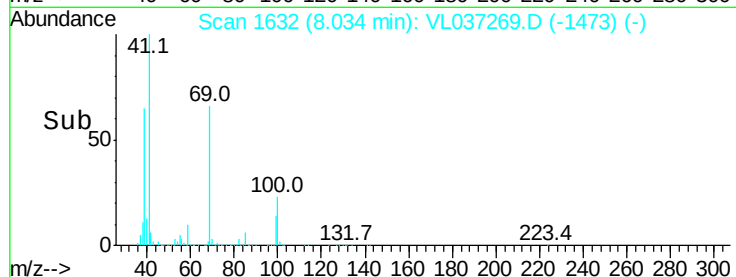
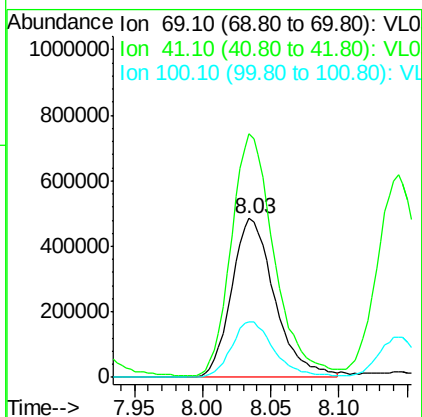
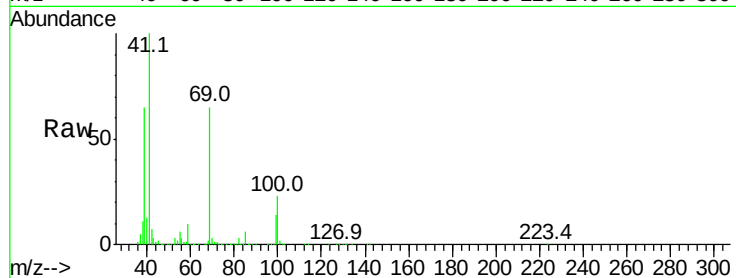




#43
Methyl Methacrylate
Concen: 9.738 ppbv
RT: 8.03 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

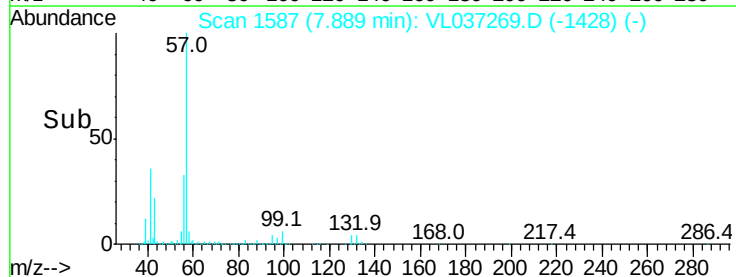
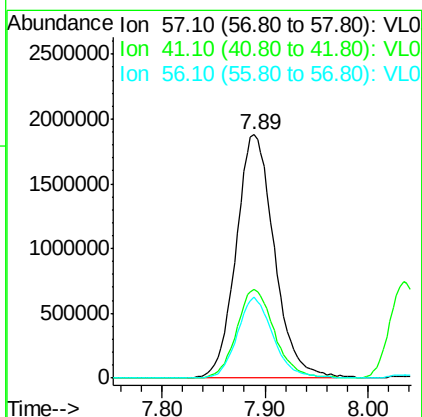
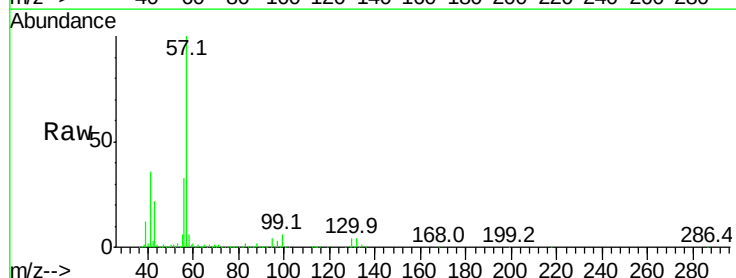
Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

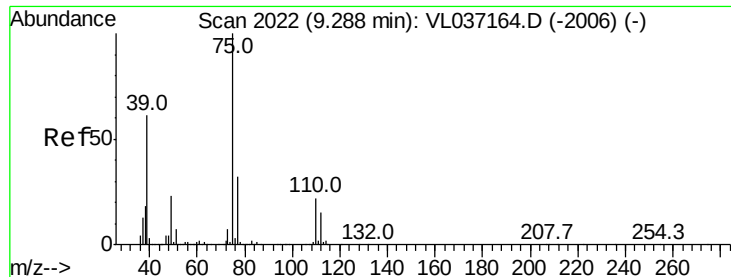
Tgt Ion: 69 Resp: 1063955
Ion Ratio Lower Upper
69 100
41 152.4 119.4 179.0
100 34.8 28.6 43.0



#44
2,2,4-Trimethylpentane
Concen: 9.080 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

Tgt Ion: 57 Resp: 4837253
Ion Ratio Lower Upper
57 100
41 36.0 27.6 41.4
56 31.4 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 9.626 ppbv

RT: 9.30 min Scan# 2025

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

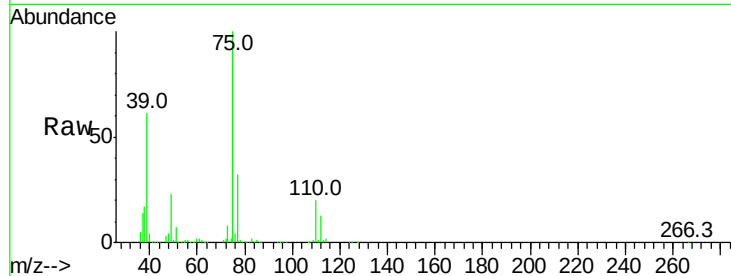
VL0702ABS01

Tgt Ion: 75 Resp: 927853

Ion Ratio Lower Upper

75 100

77 32.0 25.6 38.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.30

400000

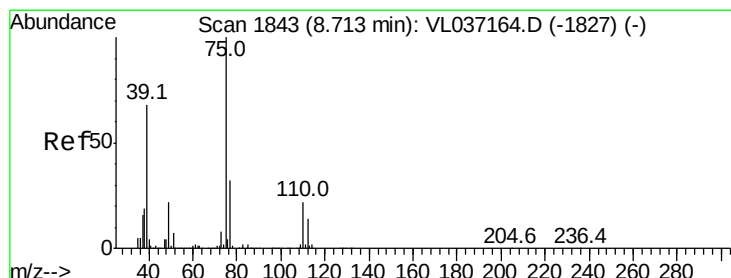
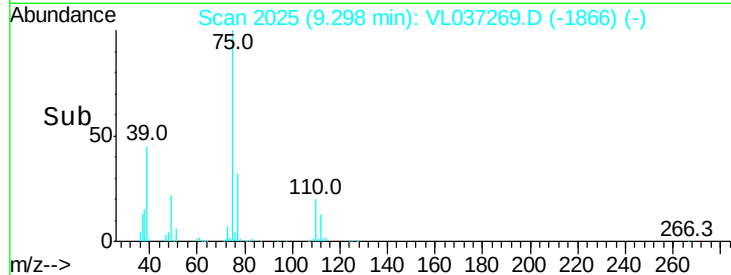
300000

200000

100000

0

Time--> 9.20 9.25 9.30 9.35 9.40



#46

cis-1,3-Dichloropropene

Concen: 8.814 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

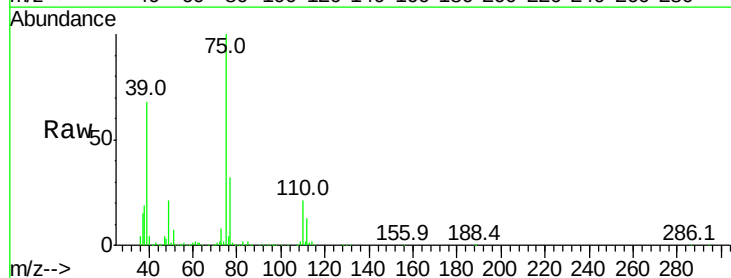
Tgt Ion: 75 Resp: 1162284

Ion Ratio Lower Upper

75 100

39 67.7 54.7 82.1

77 31.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

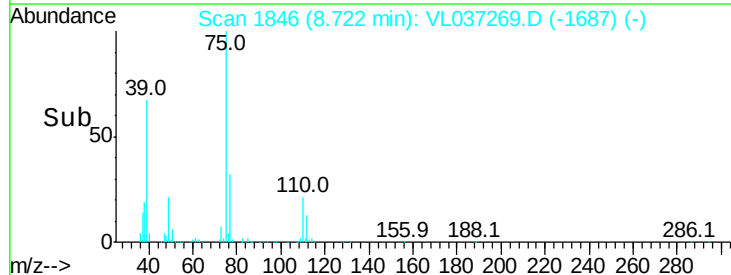
600000

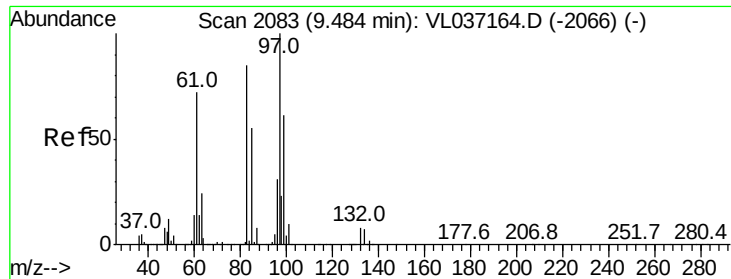
400000

200000

0

Time--> 8.65 8.70 8.75 8.80

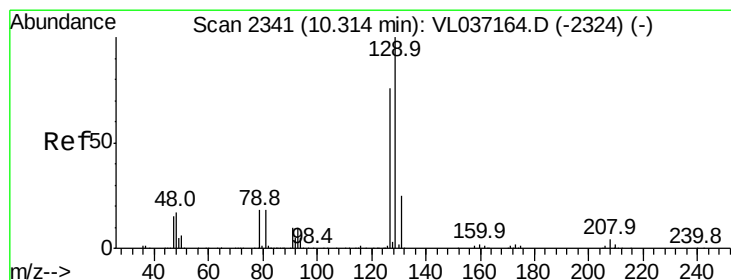
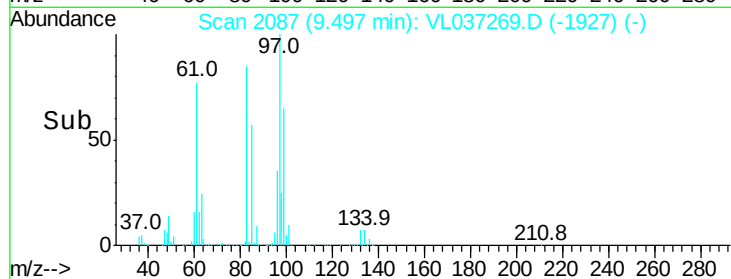
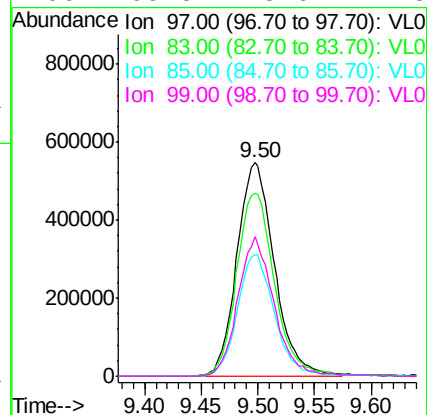
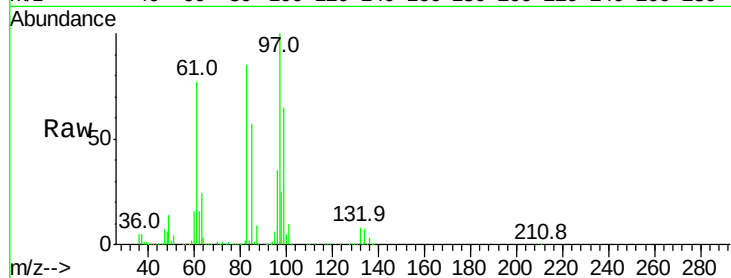




#47
 1,1,2-Trichloroethane
 Concen: 9.400 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. 0.01 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

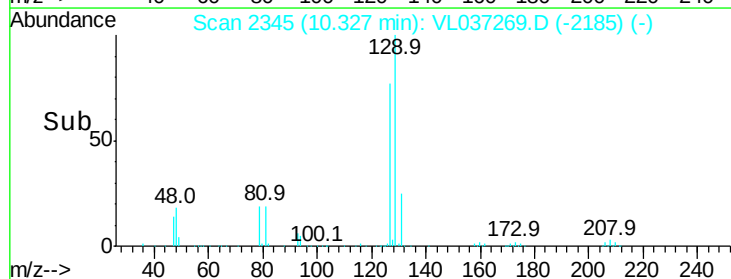
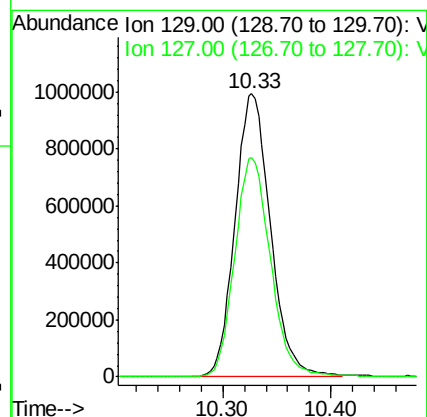
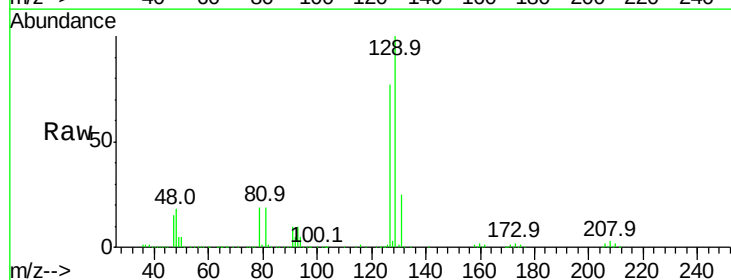
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

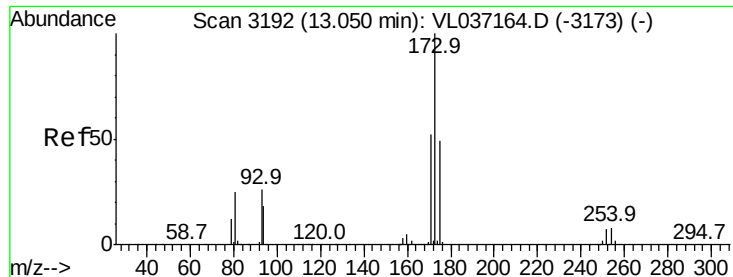
Tgt Ion: 97 Resp: 1260724
 Ion Ratio Lower Upper
 97 100
 83 85.4 68.3 102.5
 85 56.9 44.1 66.1
 99 65.3 48.6 72.8



#48
 Dibromochloromethane
 Concen: 10.764 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. 0.01 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

Tgt Ion: 129 Resp: 2278745
 Ion Ratio Lower Upper
 129 100
 127 78.8 39.1 117.2





#49

Bromoform

Concen: 11.923 ppbv

RT: 13.06 min Scan# 3196

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

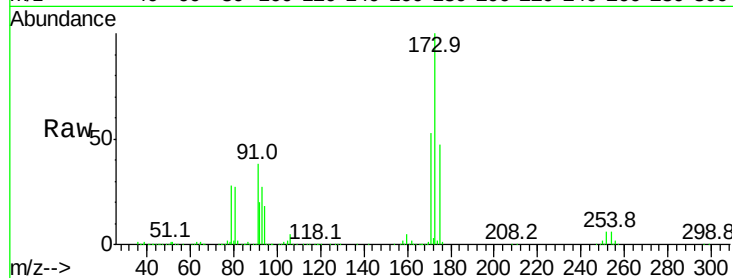
Tgt Ion:173 Resp: 1880681

Ion Ratio Lower Upper

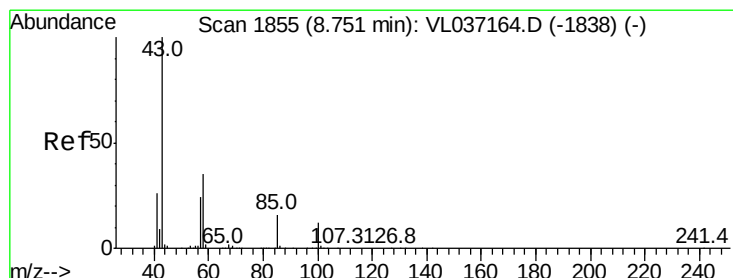
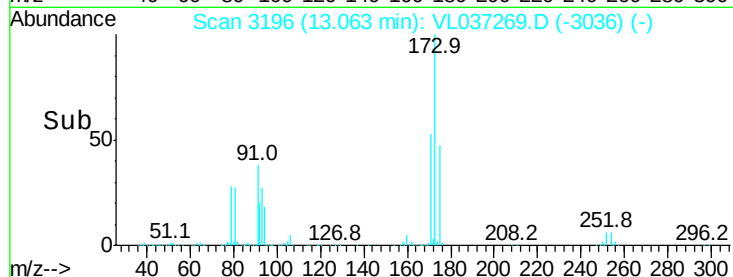
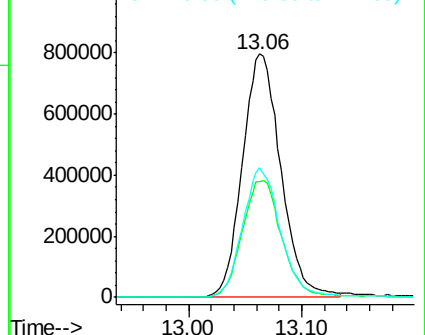
173 100

175 50.1 40.2 60.4

171 53.2 41.8 62.8



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: 9.916 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.02 min

Lab File: VL037269.D

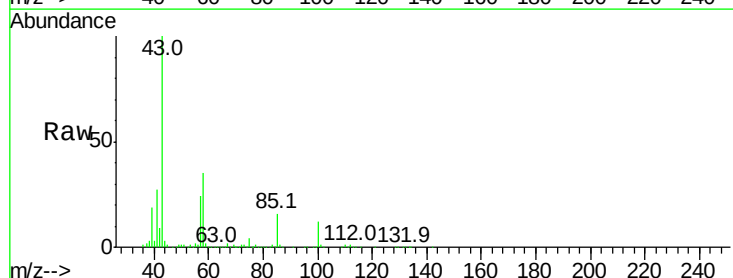
Acq: 2 Jul 2021 11:16

Tgt Ion: 43 Resp: 2072300

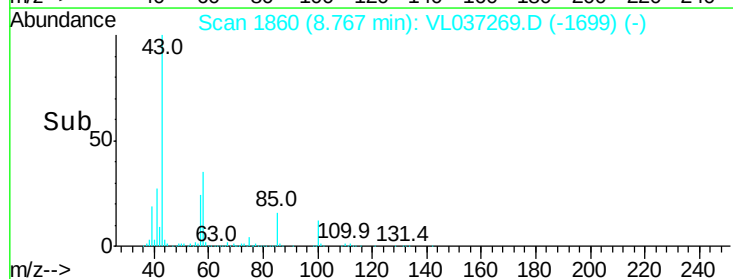
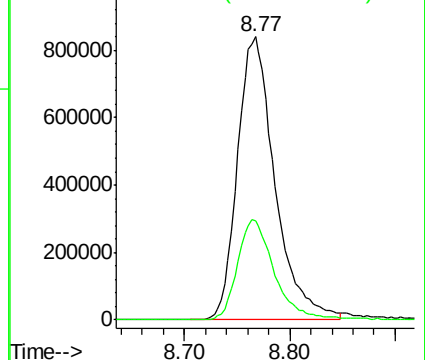
Ion Ratio Lower Upper

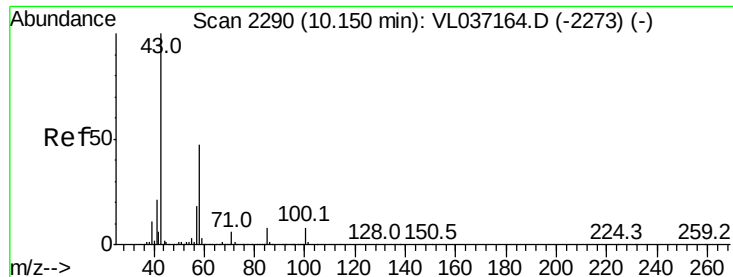
43 100

58 35.1 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

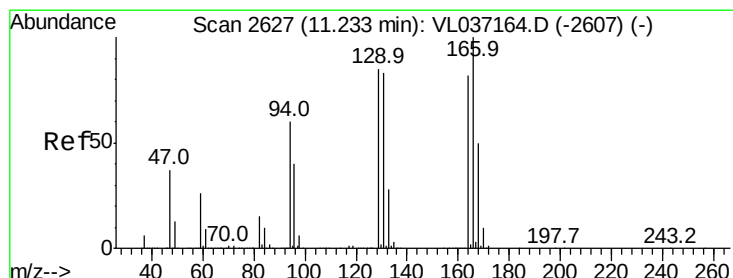
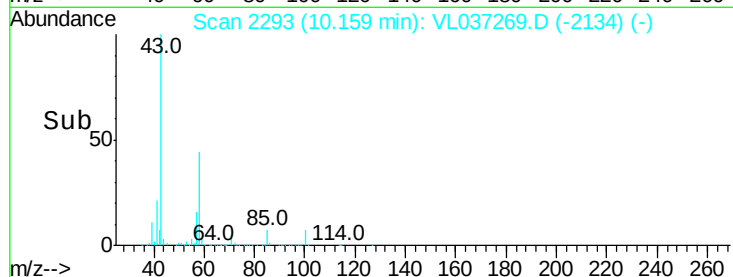
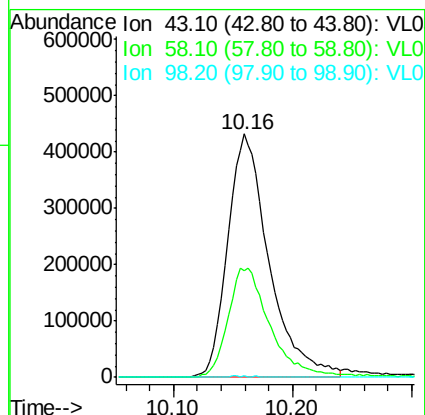
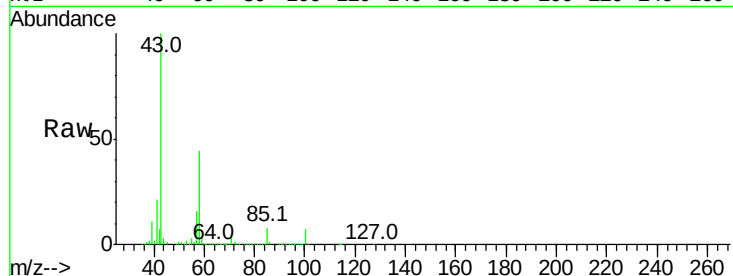




#51
2-Hexanone
Concen: 10.166 ppbv
RT: 10.16 min Scan# 2293
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

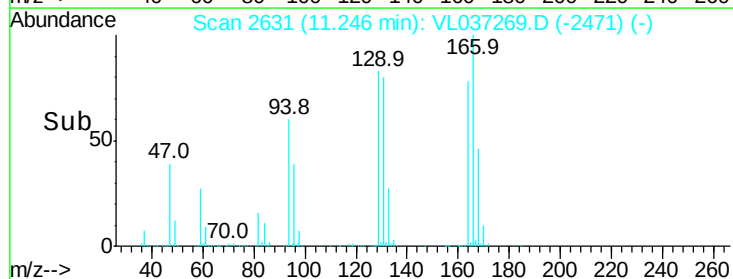
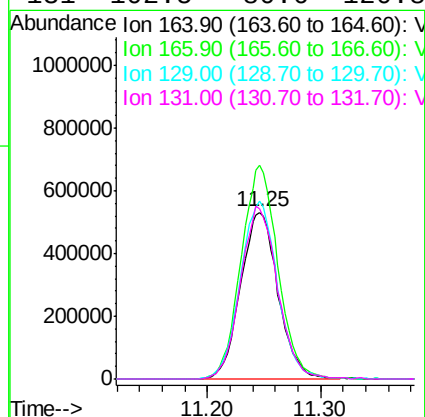
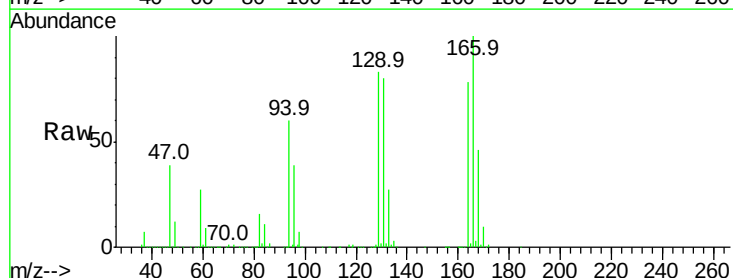
Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

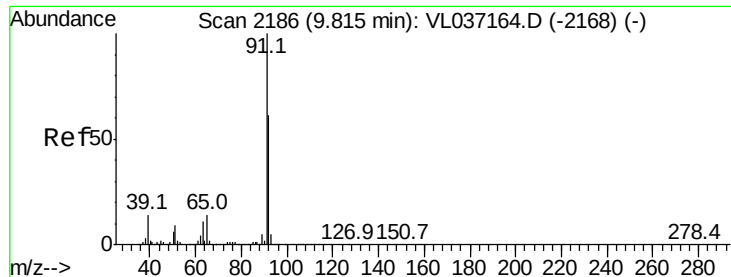
Tgt Ion: 43 Resp: 1033719
Ion Ratio Lower Upper
43 100
58 46.6 38.4 57.6
98 0.6 0.3 0.5#



#52
Tetrachloroethene
Concen: 8.269 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

Tgt Ion: 164 Resp: 1215537
Ion Ratio Lower Upper
164 100
166 128.1 97.6 146.4
129 106.5 82.9 124.3
131 102.5 80.6 120.8





#53

Toluene

Concen: 9.318 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

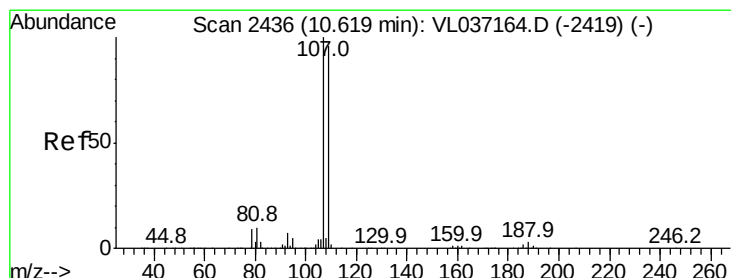
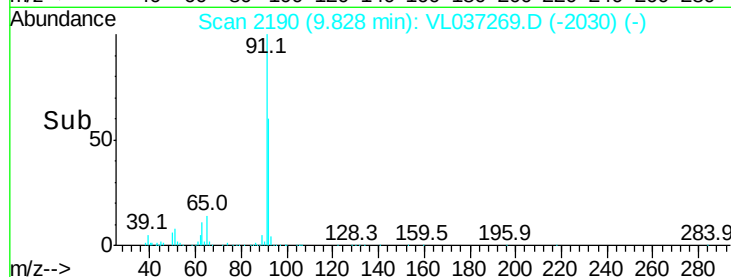
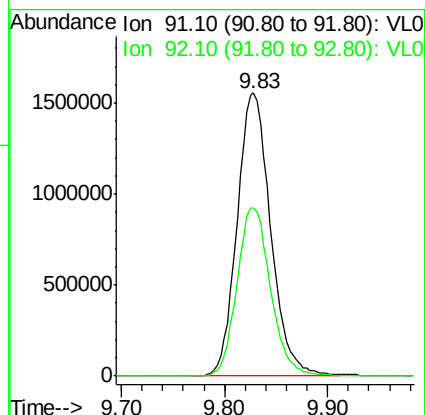
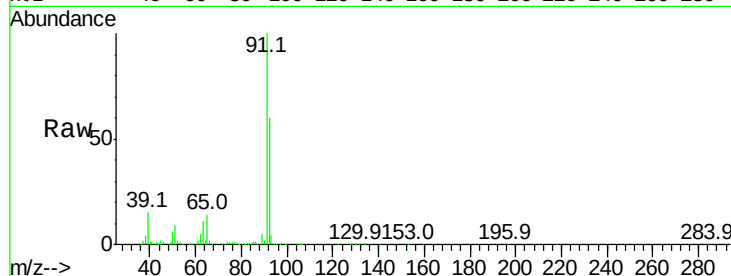
VL0702ABS01

Tgt Ion: 91 Resp: 3521377

Ion Ratio Lower Upper

91 100

92 60.0 48.3 72.5



#54

1,2-Dibromoethane

Concen: 9.780 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. 0.02 min

Lab File: VL037269.D

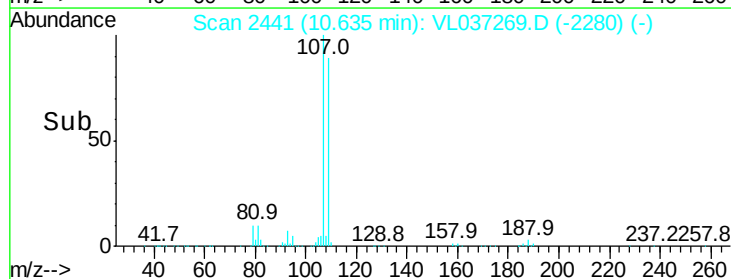
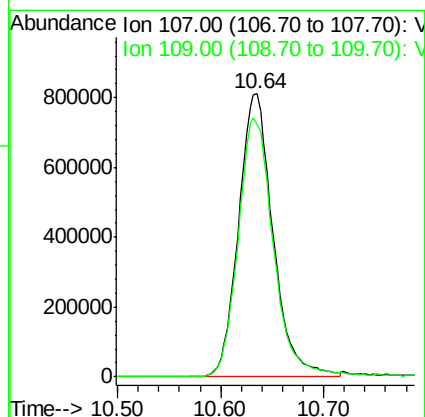
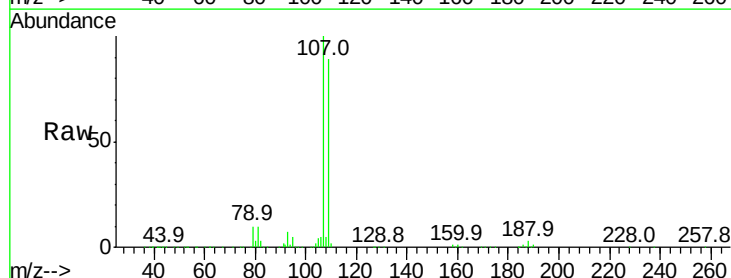
Acq: 2 Jul 2021 11:16

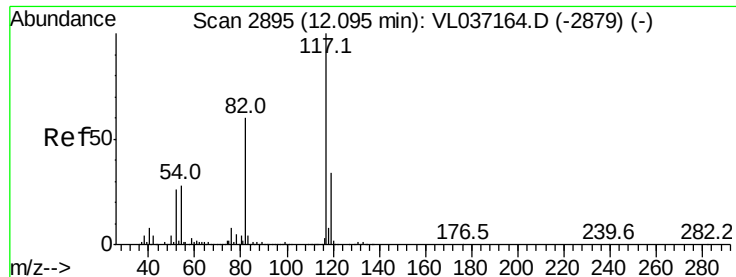
Tgt Ion: 107 Resp: 1885048

Ion Ratio Lower Upper

107 100

109 89.4 77.0 115.6

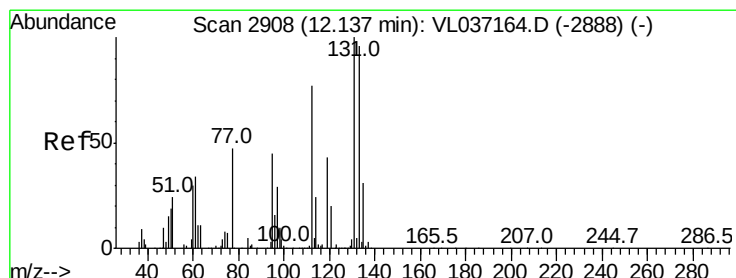
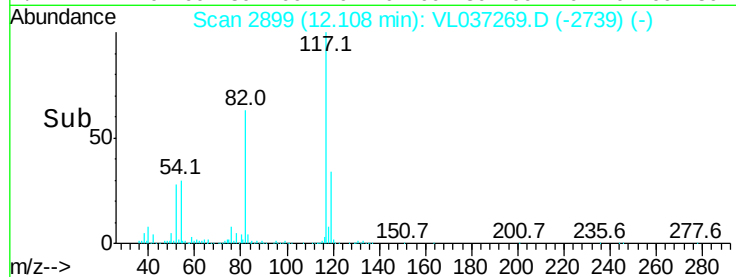
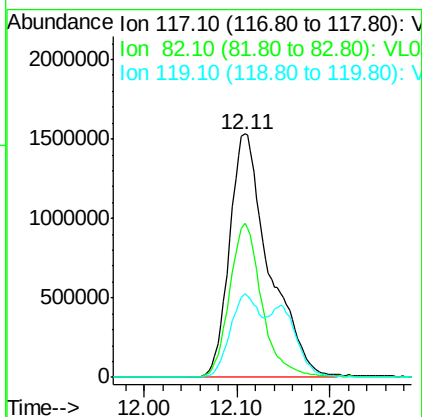
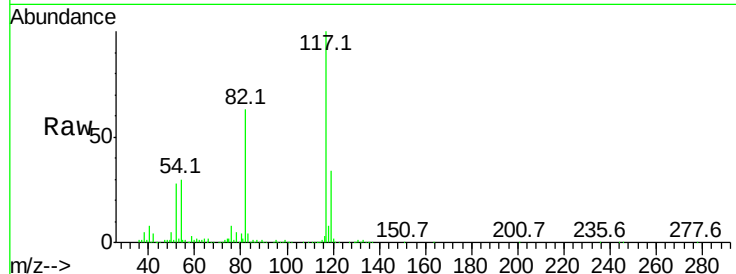




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

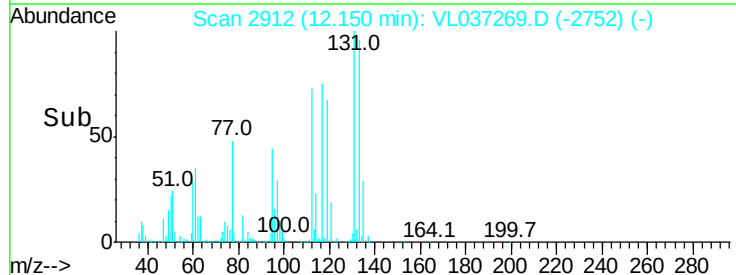
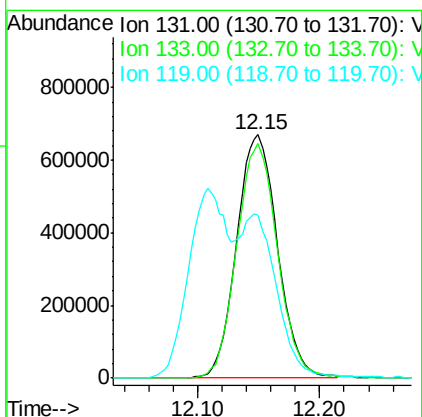
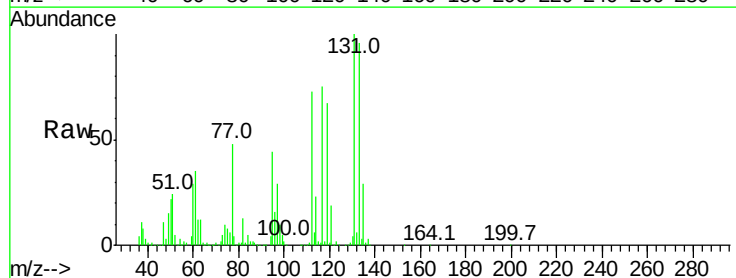
Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

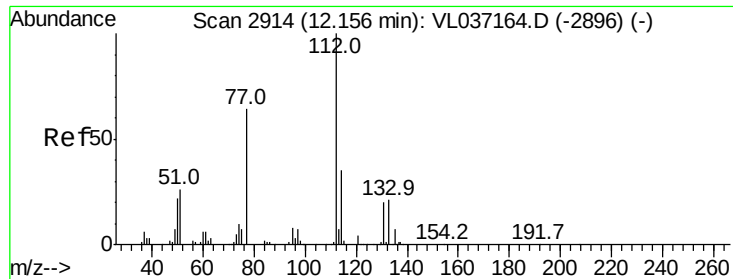
Tgt Ion:117 Resp: 4557625
Ion Ratio Lower Upper
117 100
82 52.0 51.7 77.5
119 26.4 47.6 71.4#



#56
1,1,1,2-Tetrachloroethane
Concen: 7.790 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

Tgt Ion:131 Resp: 1552249
Ion Ratio Lower Upper
131 100
133 96.4 76.5 114.7
119 60.6 48.6 72.8





#57

Chlorobenzene

Concen: 7.330 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

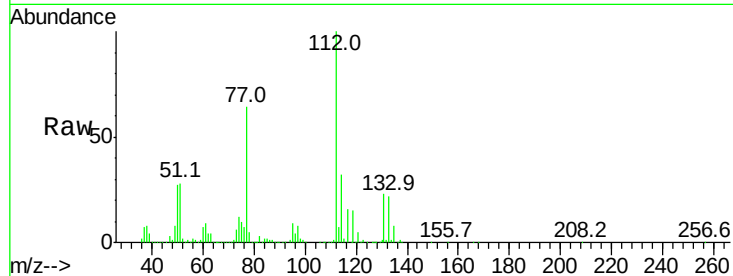
Tgt Ion:112 Resp: 2709233

Ion Ratio Lower Upper

112 100

77 63.7 52.2 78.4

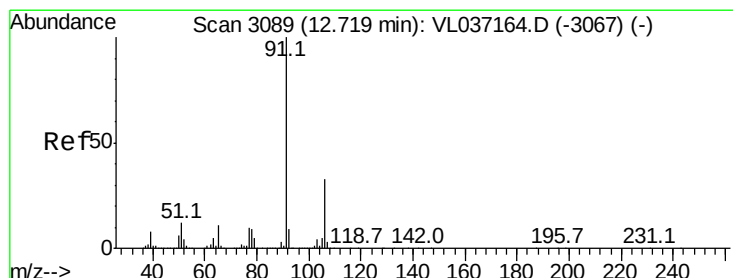
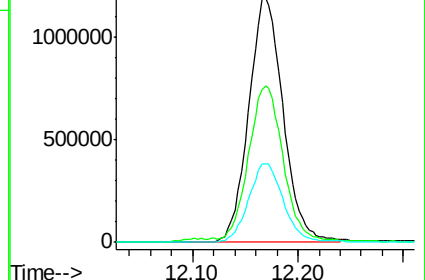
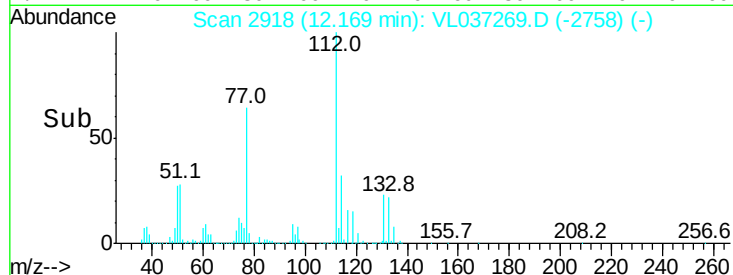
114 32.2 31.1 38.1



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: 7.543 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. 0.01 min

Lab File: VL037269.D

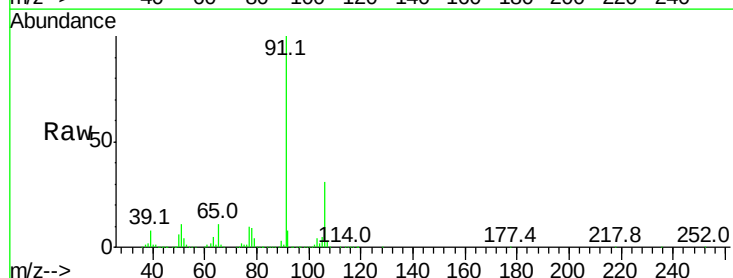
Acq: 2 Jul 2021 11:16

Tgt Ion: 91 Resp: 4732712

Ion Ratio Lower Upper

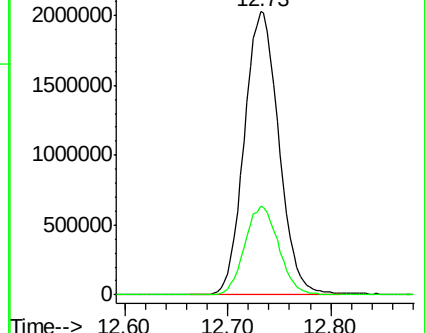
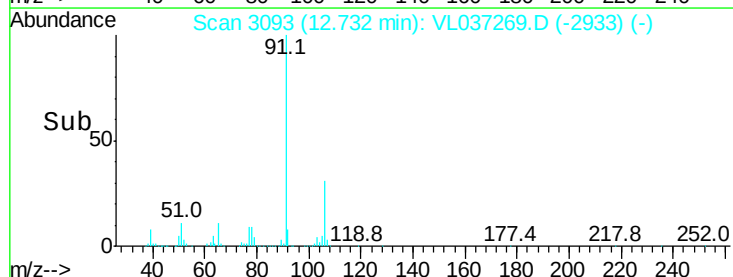
91 100

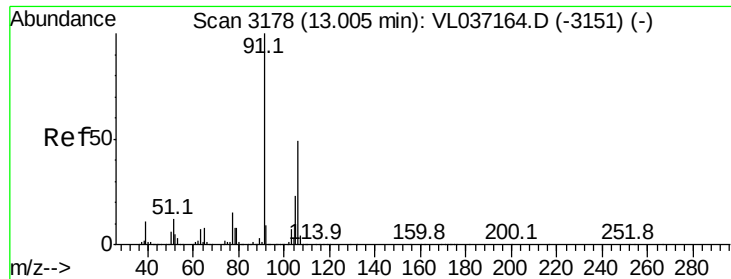
106 31.2 26.3 39.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

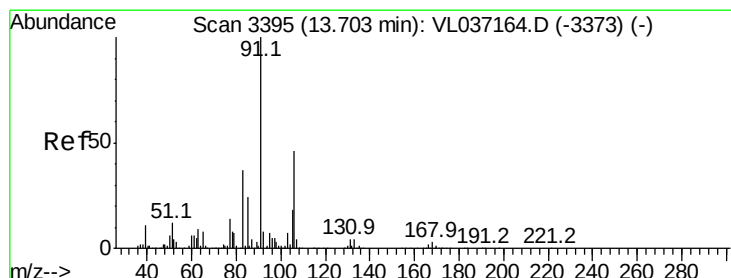
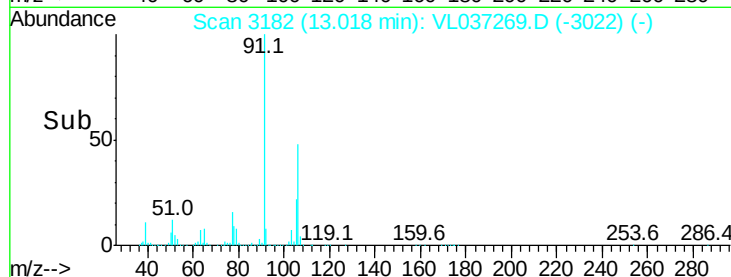
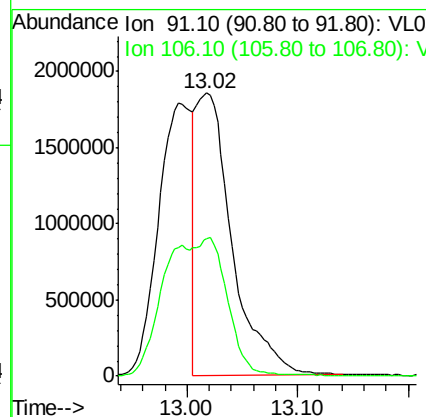
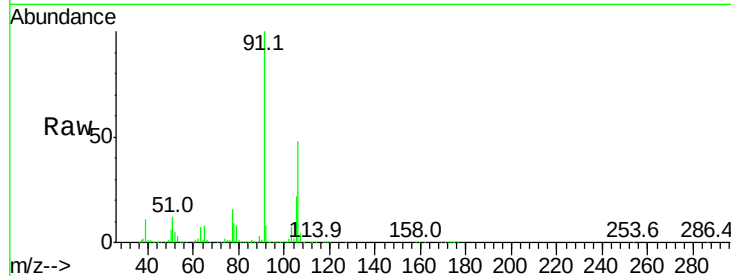




#59
m/p-Xylene
Concen: 7.854 ppbv
RT: 13.02 min Scan# 3182
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

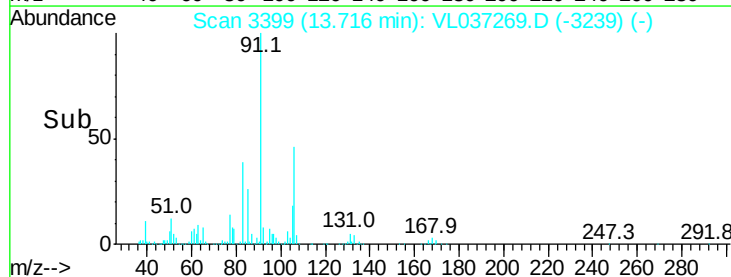
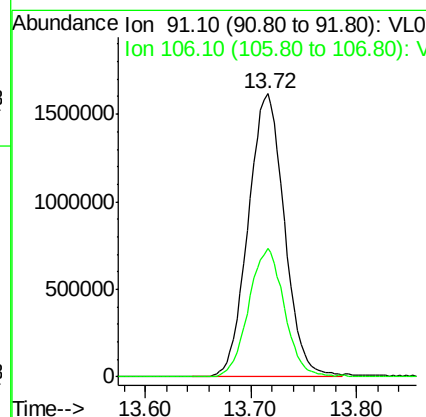
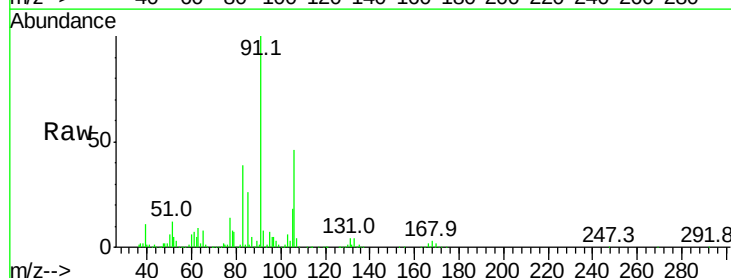
Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

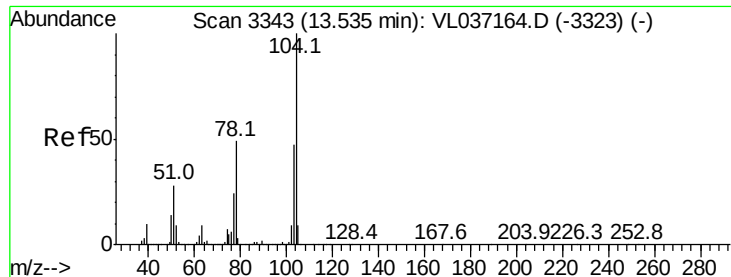
Tgt Ion: 91 Resp: 4176169
Ion Ratio Lower Upper
91 100
106 86.6 37.0 55.4#



#60
o-Xylene
Concen: 7.603 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. 0.01 min
Lab File: VL037269.D
Acq: 2 Jul 2021 11:16

Tgt Ion: 91 Resp: 3849237
Ion Ratio Lower Upper
91 100
106 45.1 23.0 69.0

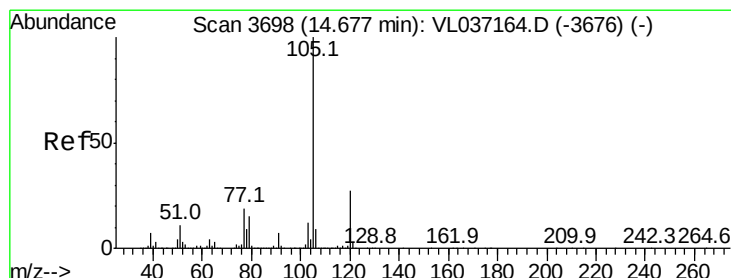
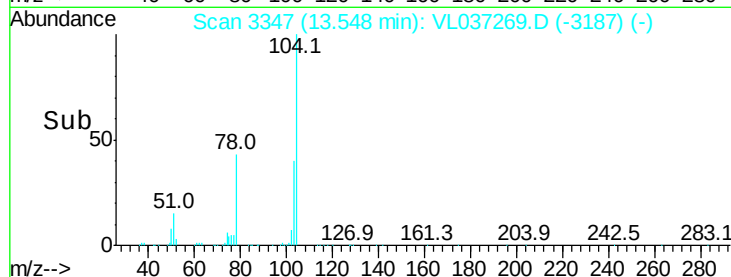
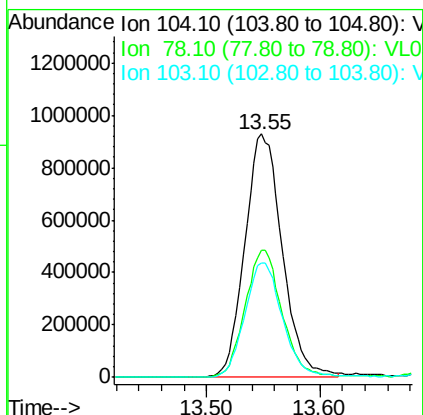
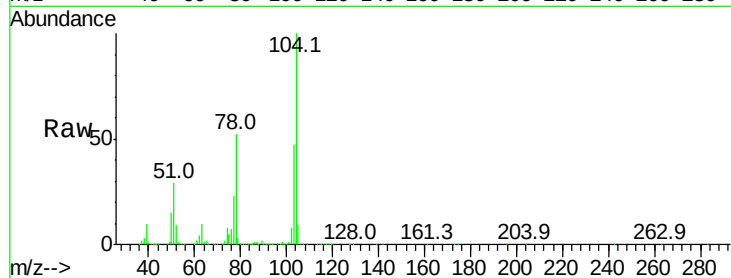




#61
Styrene
 Concen: 8.178 ppbv
 RT: 13.55 min Scan# 3347
 Delta R.T. 0.01 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

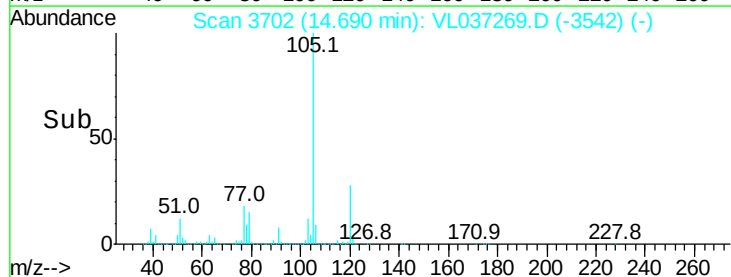
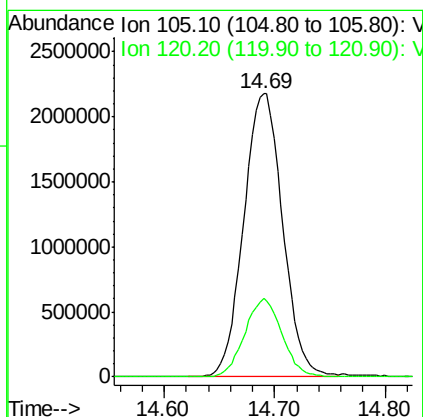
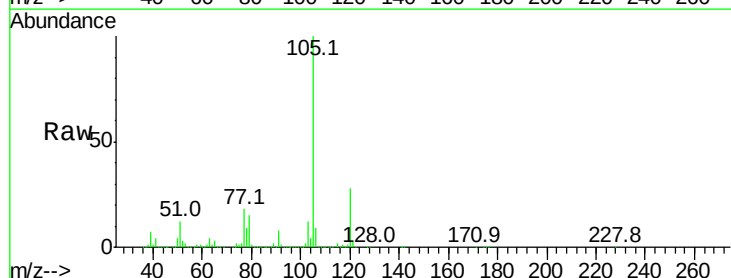
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

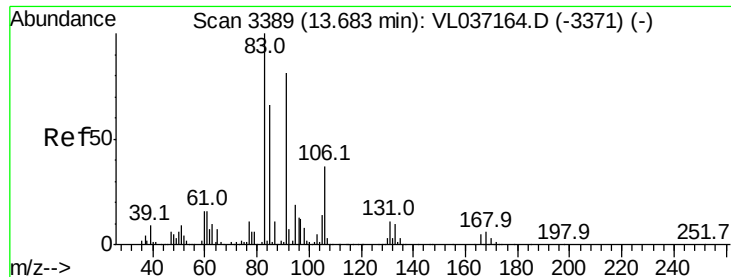
Tgt Ion:104 Resp: 2136961
 Ion Ratio Lower Upper
 104 100
 78 52.2 39.7 59.5
 103 47.9 37.6 56.4



#62
Isopropylbenzene
 Concen: 7.407 ppbv
 RT: 14.69 min Scan# 3702
 Delta R.T. 0.01 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

Tgt Ion:105 Resp: 5332575
 Ion Ratio Lower Upper
 105 100
 120 26.8 21.6 32.4

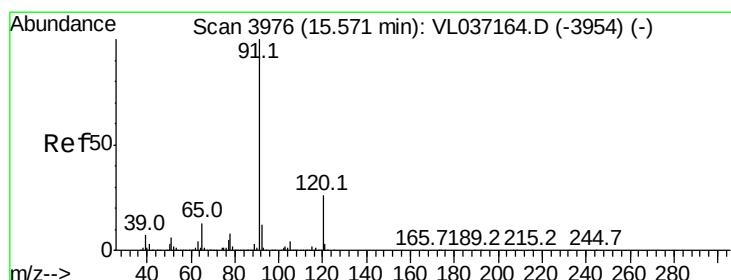
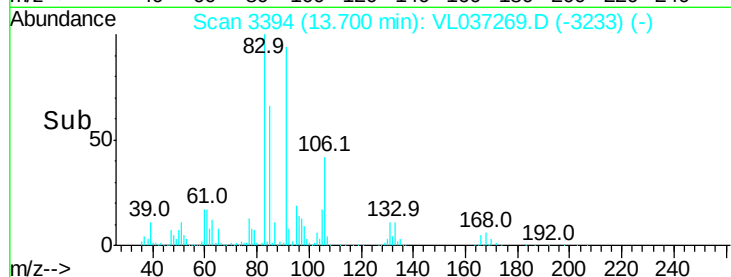
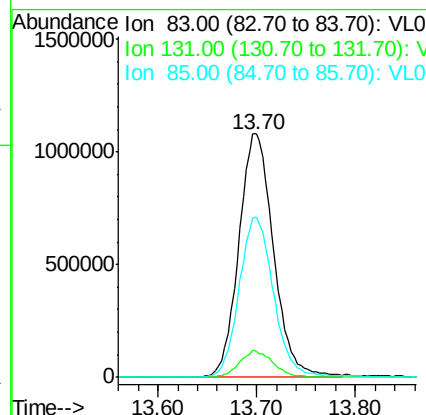
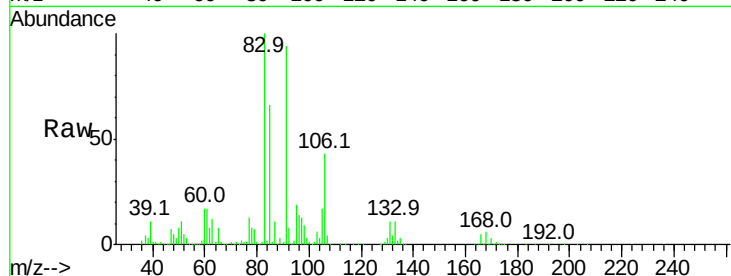




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.790 ppbv
 RT: 13.70 min Scan# 3394
 Delta R.T. 0.02 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

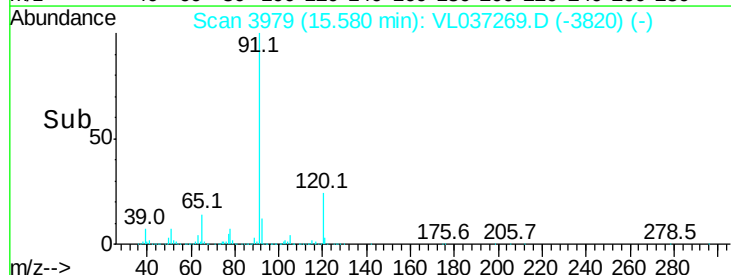
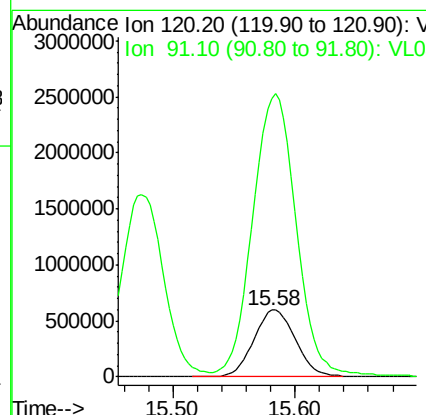
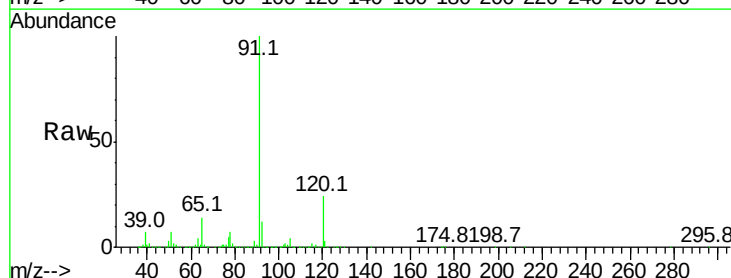
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

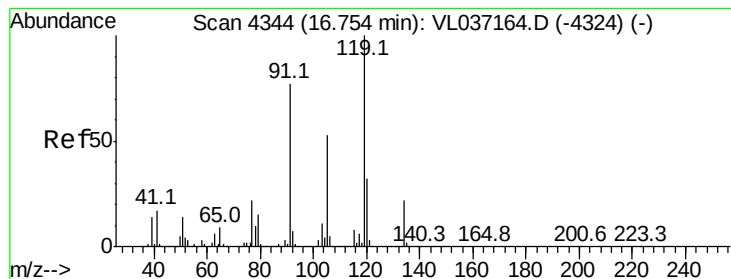
Tgt Ion: 83 Resp: 2626202
 Ion Ratio Lower Upper
 83 100
 131 10.7 5.4 16.2
 85 65.9 33.1 99.2



#64
 n-propylbenzene
 Concen: 7.828 ppbv
 RT: 15.58 min Scan# 3979
 Delta R.T. 0.01 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

Tgt Ion: 120 Resp: 1411392
 Ion Ratio Lower Upper
 120 100
 91 444.3 343.3 514.9





#65

tert-Butylbenzene

Concen: 7.710 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

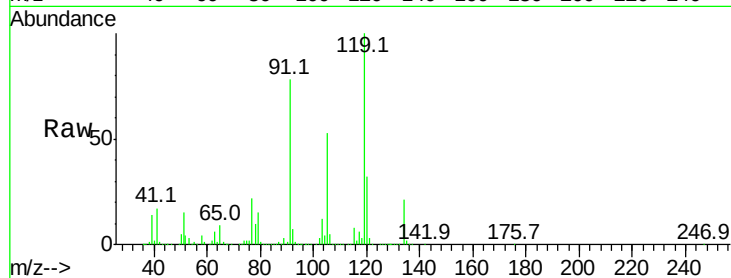
Tgt Ion: 119 Resp: 4922953

Ion Ratio Lower Upper

119 100

91 79.3 62.6 93.8

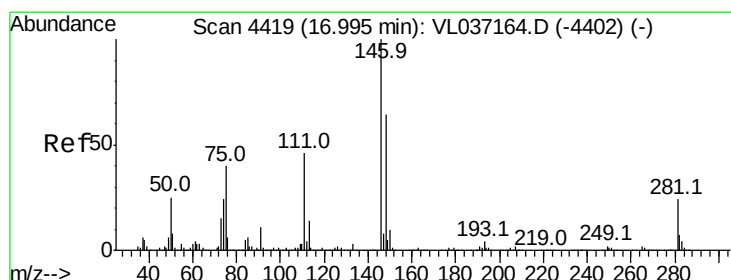
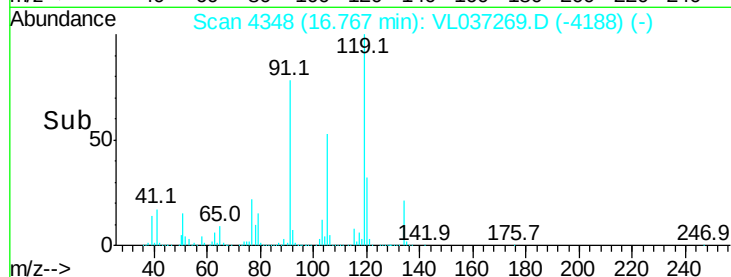
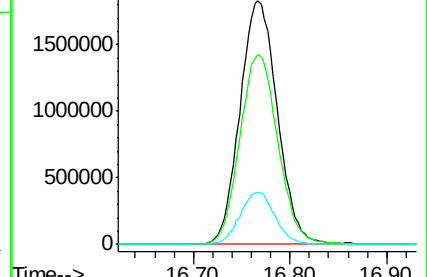
134 20.1 16.2 24.4



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 7.944 ppbv

RT: 17.01 min Scan# 4423

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

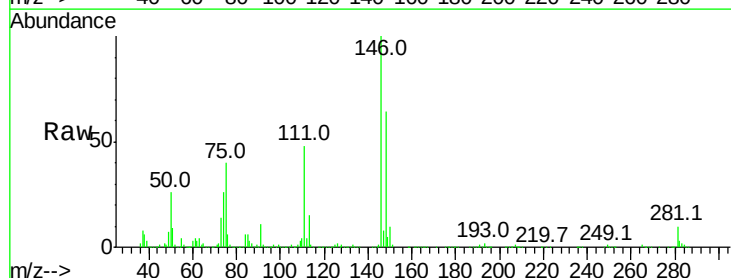
Tgt Ion: 91 Resp: 214955

Ion Ratio Lower Upper

91 100

126 18.2 15.5 23.3

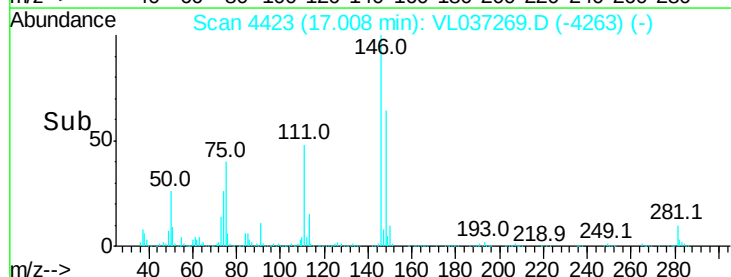
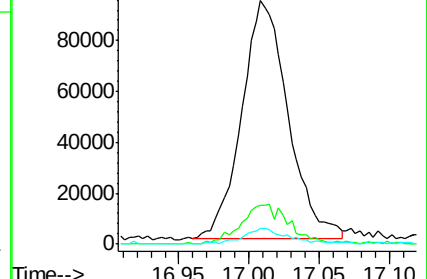
128 6.8 5.7 8.5

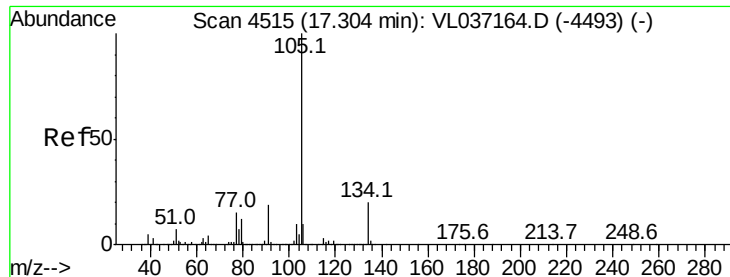


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.692 ppbv

RT: 17.32 min Scan# 4519

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

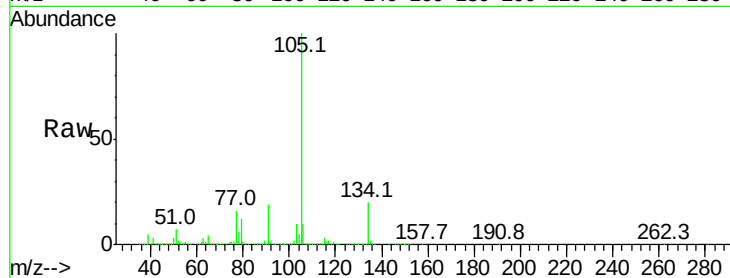
VL0702ABS01

Tgt Ion: 105 Resp: 6549460

Ion Ratio Lower Upper

105 100

134 19.4 15.8 23.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

3000000

2500000

2000000

1500000

1000000

500000

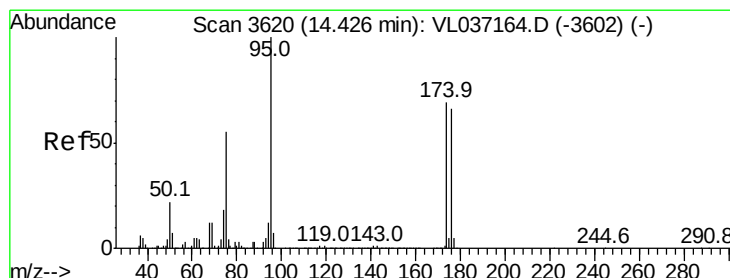
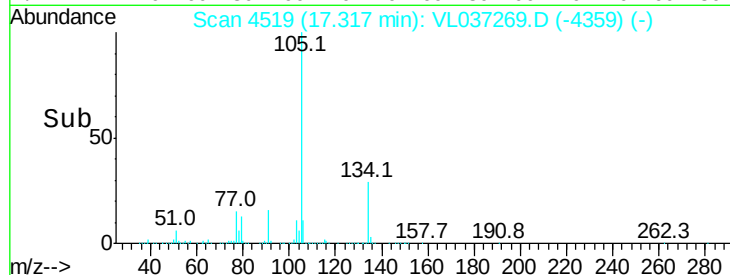
0

17.32

17.30

17.40

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 8.488 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

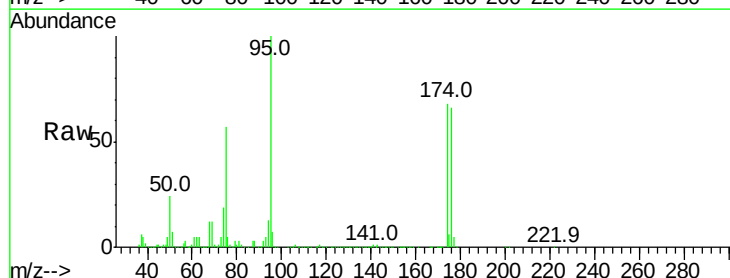
Tgt Ion: 95 Resp: 2931366

Ion Ratio Lower Upper

95 100

174 69.6 57.0 85.4

175 5.3 4.4 6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1500000

1000000

500000

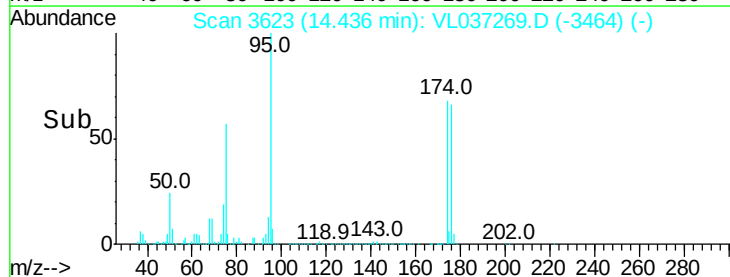
0

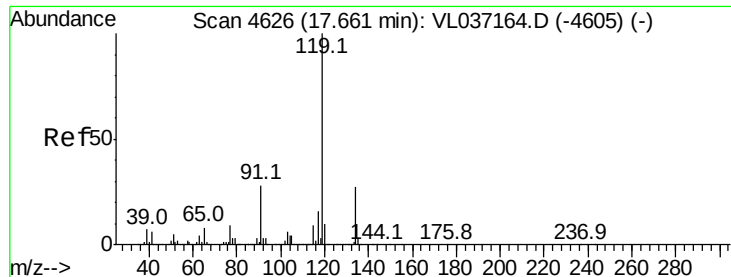
14.44

14.40

14.50

Time-->

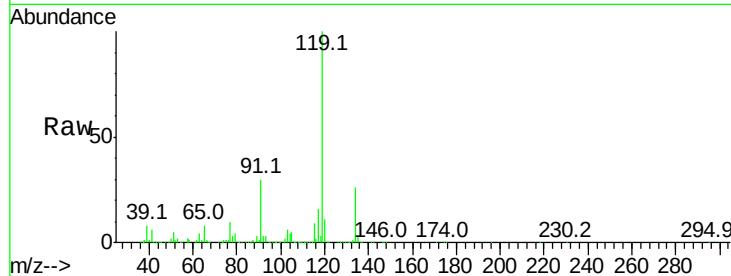




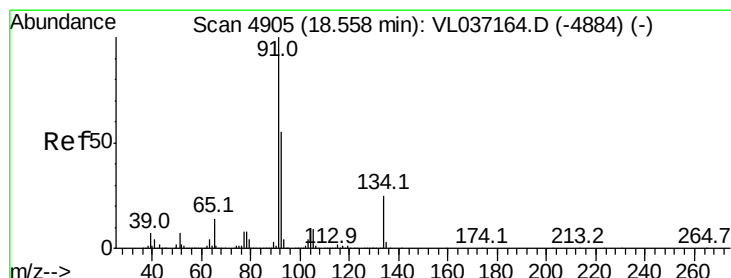
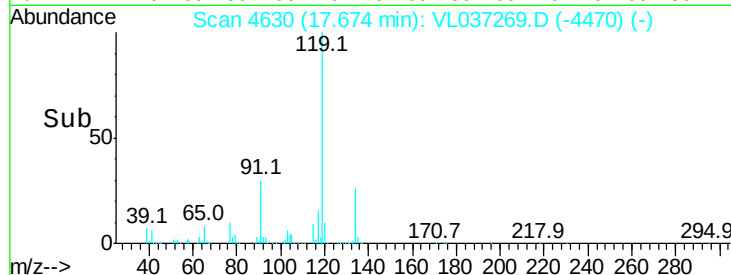
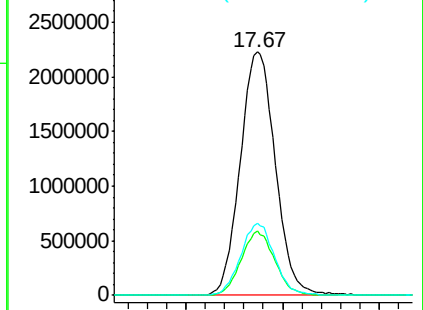
#69
 p-Isopropyltoluene
 Concen: 7.807 ppbv
 RT: 17.67 min Scan# 4630
 Delta R.T. 0.01 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tgt Ion: 119 Resp: 5614965
 Ion Ratio Lower Upper
 119 100
 134 25.4 20.9 31.3
 91 28.5 22.6 34.0

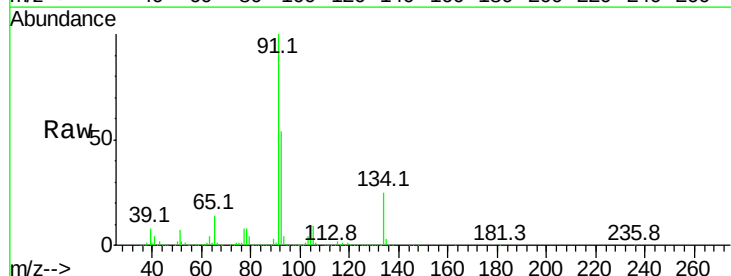


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

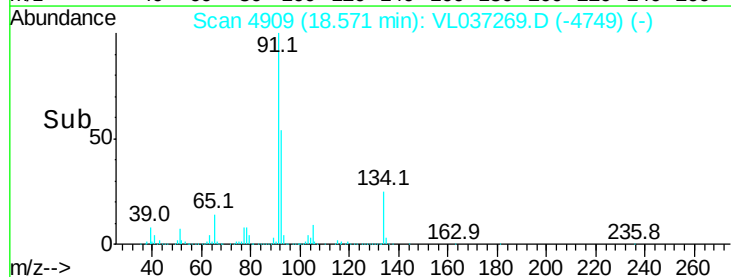
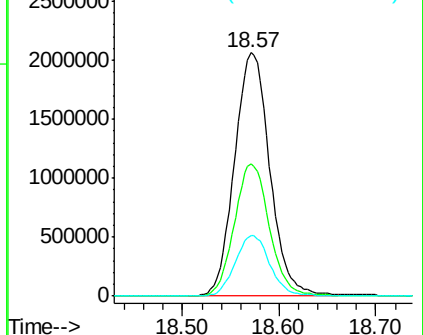


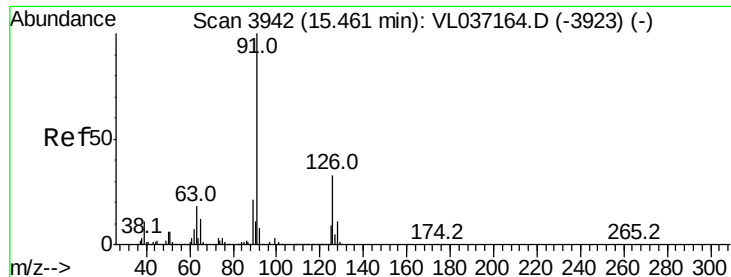
#70
 n-Butylbenzene
 Concen: 7.874 ppbv
 RT: 18.57 min Scan# 4909
 Delta R.T. 0.01 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

Tgt Ion: 91 Resp: 5241263
 Ion Ratio Lower Upper
 91 100
 92 54.5 44.0 66.0
 134 24.7 20.2 30.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 7.805 ppbv

RT: 15.47 min Scan# 3946

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

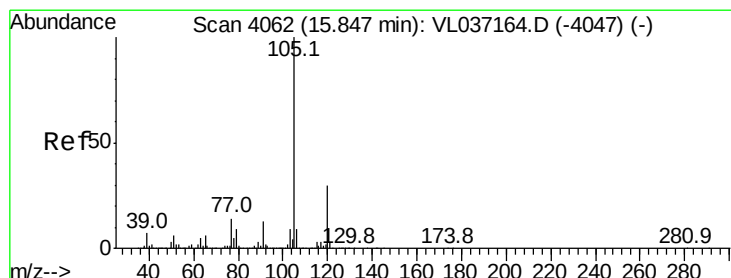
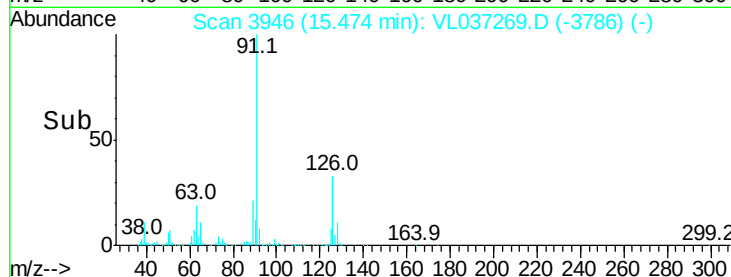
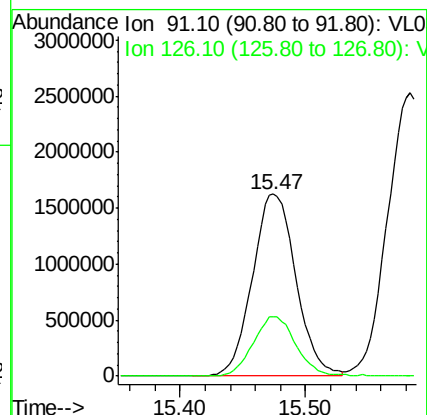
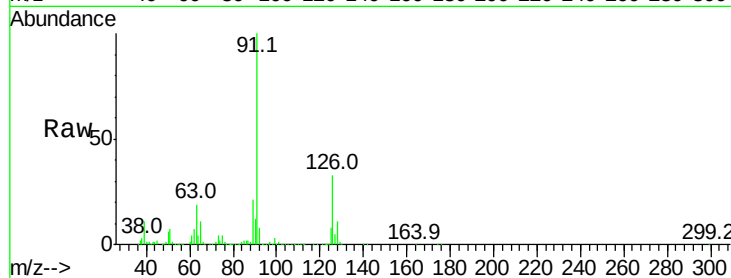
VL0702ABS01

Tgt Ion: 91 Resp: 3928245

Ion Ratio Lower Upper

91 100

126 32.9 13.5 54.1



#72

4-Ethyltoluene

Concen: 7.988 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. 0.02 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Tgt Ion: 105 Resp: 4594057

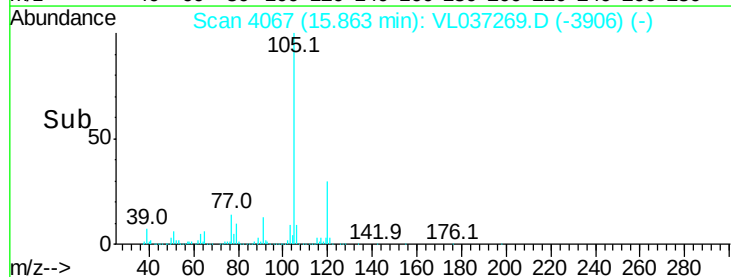
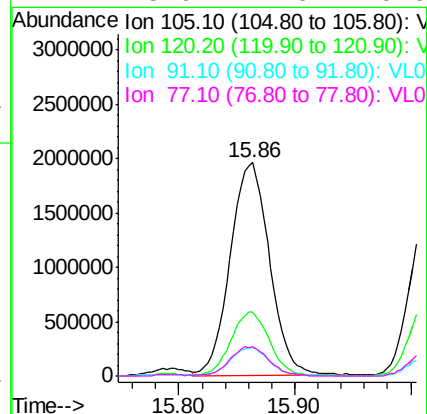
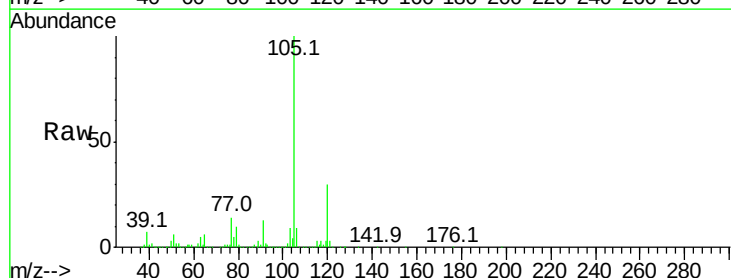
Ion Ratio Lower Upper

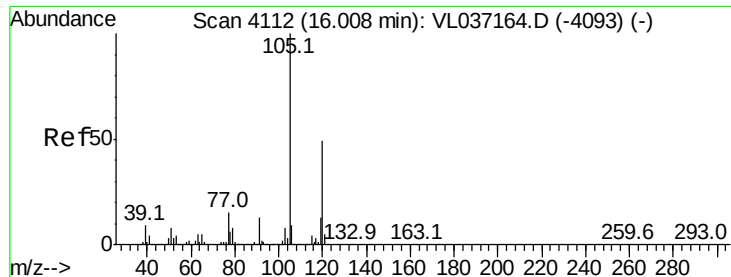
105 100

120 30.0 24.7 37.1

91 13.3 10.2 15.4

77 13.9 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 7.589 ppbv

RT: 16.02 min Scan# 4115

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

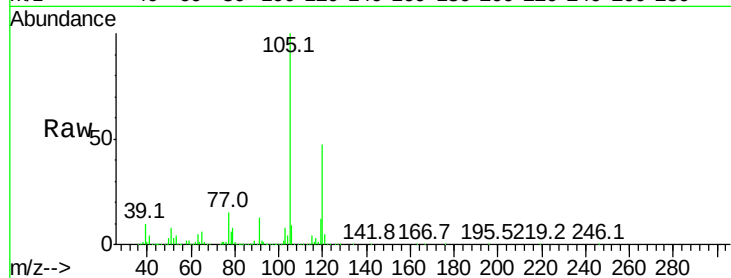
VL0702ABS01

Tgt Ion:105 Resp: 4219340

Ion Ratio Lower Upper

105 100

120 46.9 39.4 59.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.02

2000000

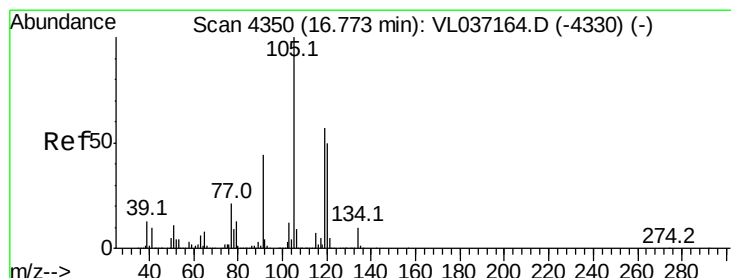
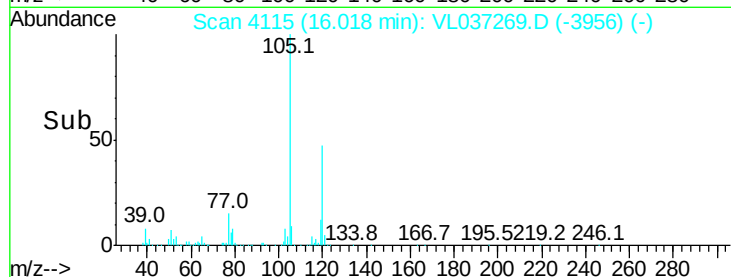
1500000

1000000

500000

0

Time--> 15.90 16.00 16.10



#74

1,2,4-Trimethylbenzene

Concen: 7.667 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Tgt Ion:105 Resp: 4392234

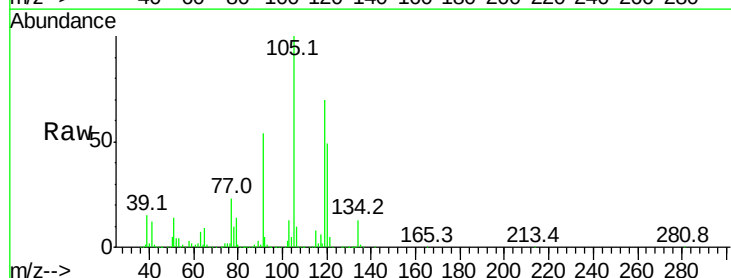
Ion Ratio Lower Upper

105 100

120 48.4 39.8 59.8

91 54.1 37.0 55.4

77 22.8 17.0 25.4



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): VL0

Ion 77.10 (76.80 to 77.80): VL0

2500000

2000000

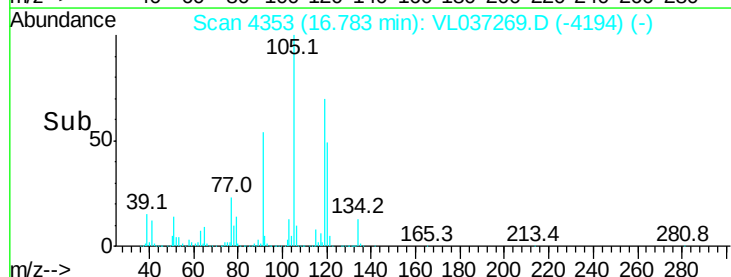
1500000

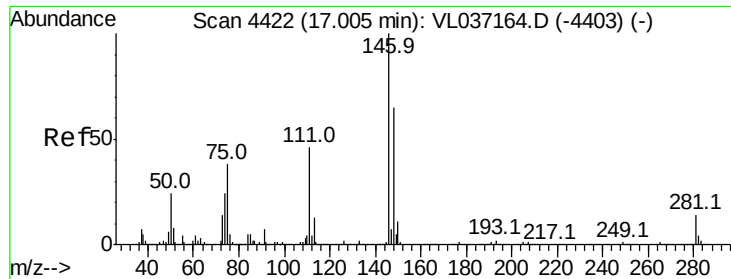
1000000

500000

0

Time--> 16.70 16.80 16.90





#75

1,3-Dichlorobenzene

Concen: 7.532 ppbv

RT: 17.02 min Scan# 4426

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

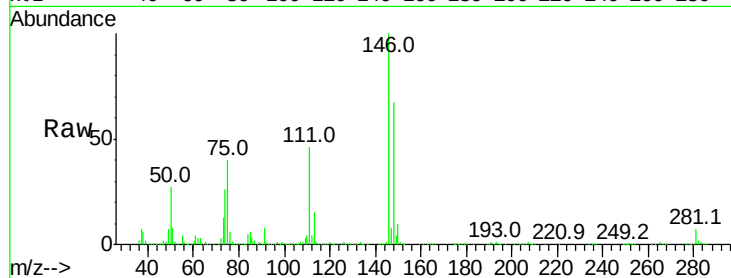
Tgt Ion:146 Resp: 2623486

Ion Ratio Lower Upper

146 100

111 45.8 22.2 66.6

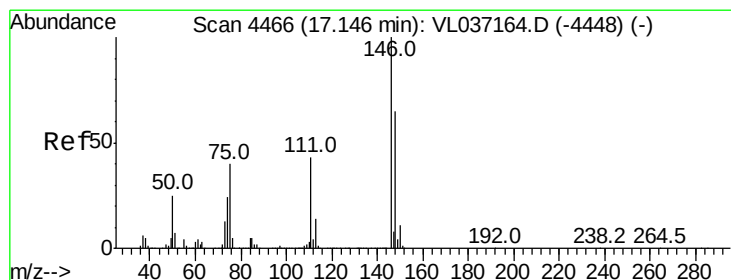
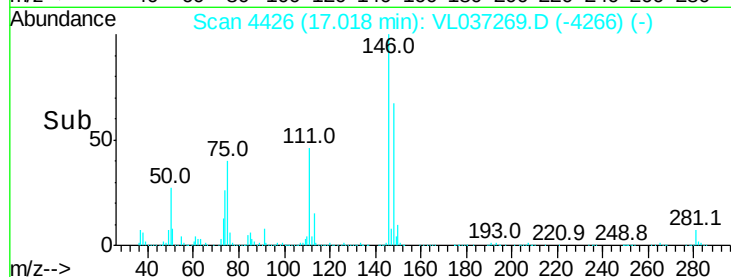
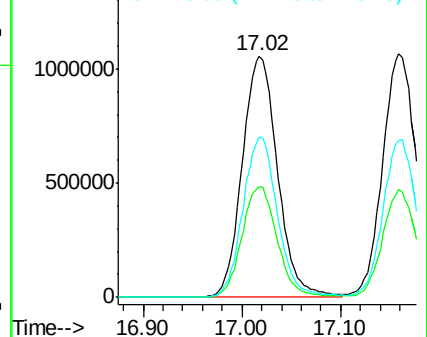
148 65.3 32.4 97.2



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: 7.384 ppbv

RT: 17.16 min Scan# 4470

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

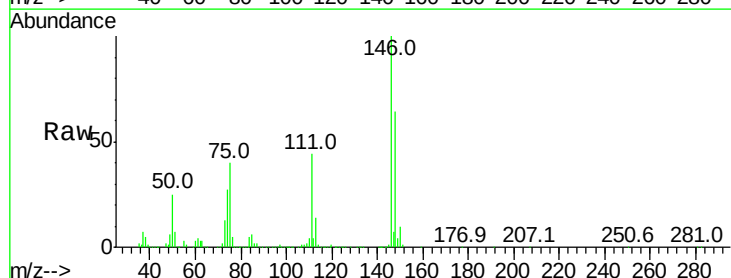
Tgt Ion:146 Resp: 2568893

Ion Ratio Lower Upper

146 100

111 45.2 22.7 68.0

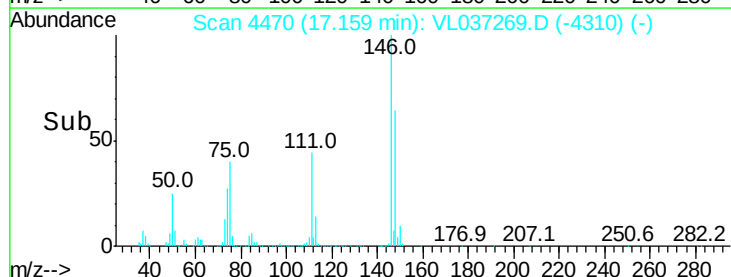
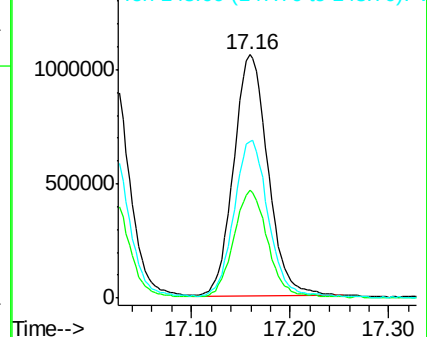
148 66.1 33.7 101.1

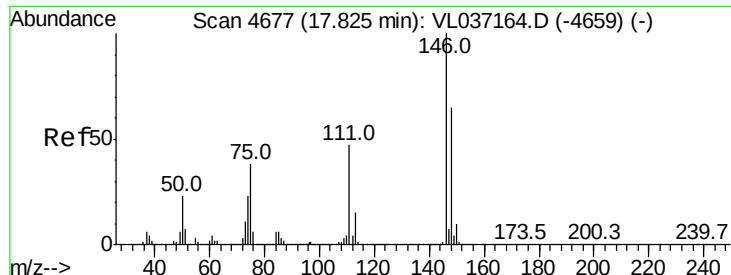


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

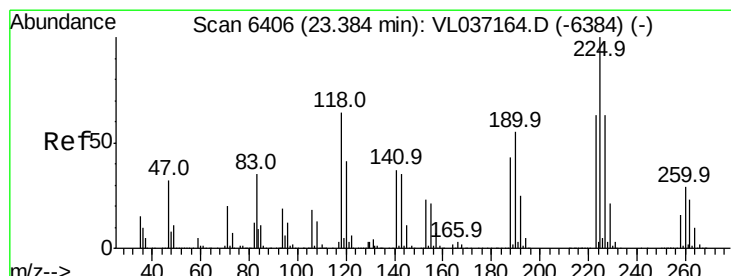
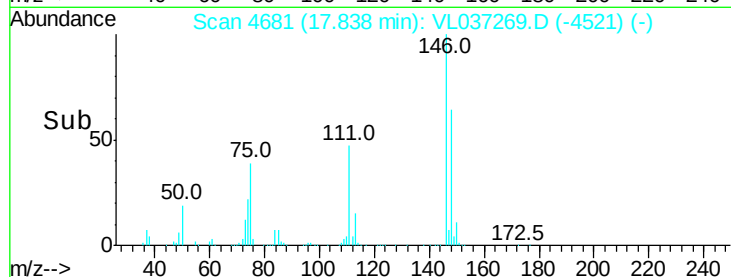
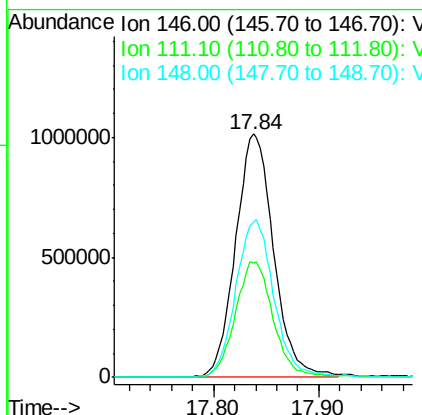
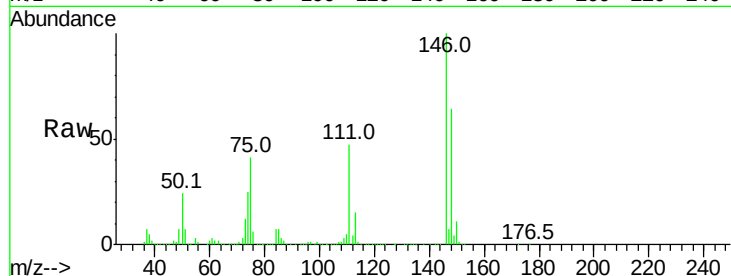




#77
 1,2-Dichlorobenzene
 Concen: 7.503 ppbv
 RT: 17.84 min Scan# 4681
 Delta R.T. 0.01 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

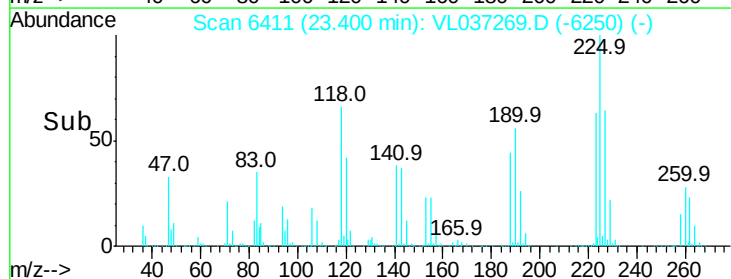
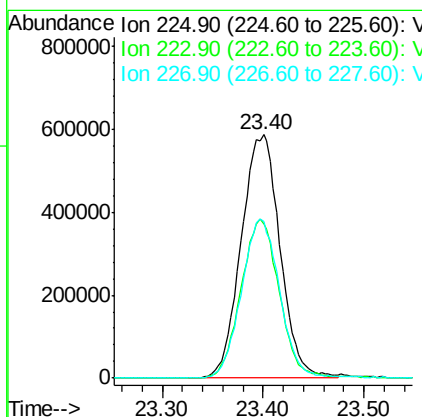
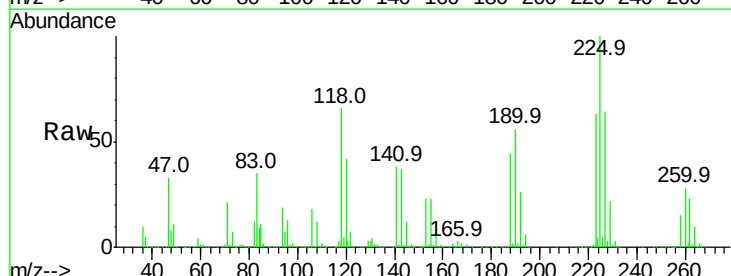
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

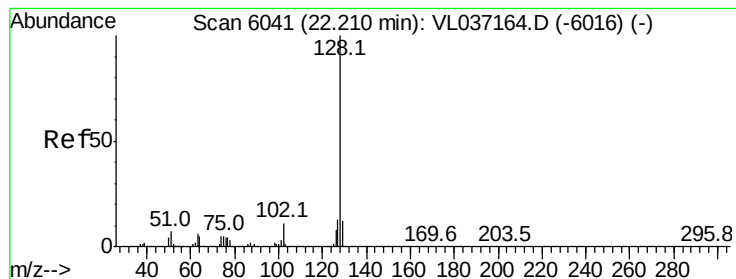
Tgt Ion:146 Resp: 2527899
 Ion Ratio Lower Upper
 146 100
 111 47.7 23.3 69.8
 148 65.2 32.4 97.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 5.416 ppbv
 RT: 23.40 min Scan# 6411
 Delta R.T. 0.02 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

Tgt Ion:225 Resp: 1569003
 Ion Ratio Lower Upper
 225 100
 223 64.8 51.8 77.8
 227 64.8 51.4 77.0





#79

Naphthalene

Concen: 6.083 ppbv

RT: 22.22 min Scan# 6045

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

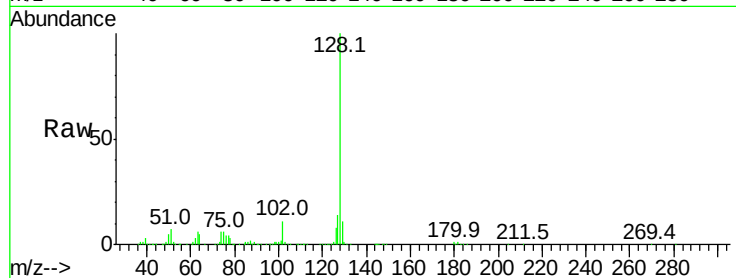
Tgt Ion:128 Resp: 2905401

Ion Ratio Lower Upper

128 100

127 14.0 10.7 16.1

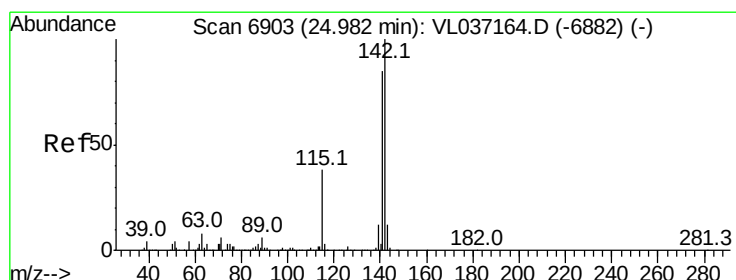
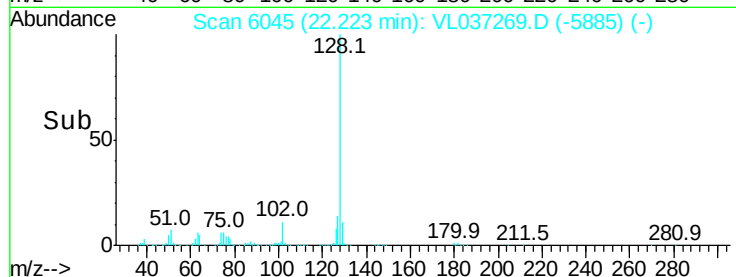
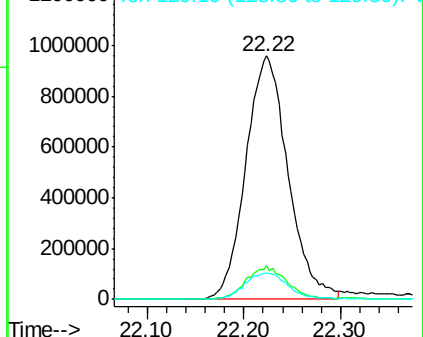
129 10.9 9.3 13.9



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: 4.639 ppbv

RT: 24.99 min Scan# 6906

Delta R.T. 0.01 min

Lab File: VL037269.D

Acq: 2 Jul 2021 11:16

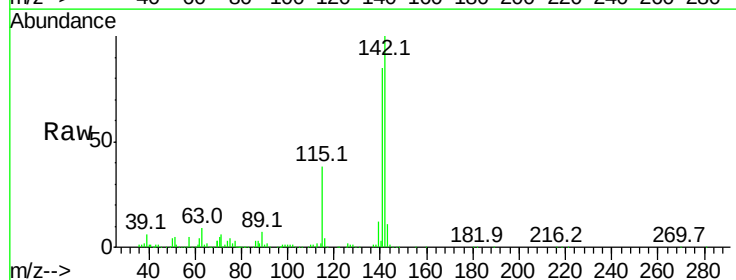
Tgt Ion:142 Resp: 581056

Ion Ratio Lower Upper

142 100

141 83.5 63.7 95.5

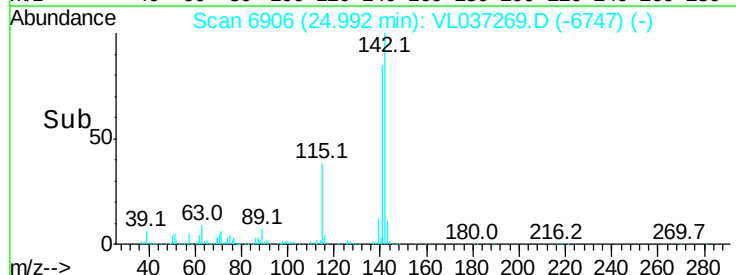
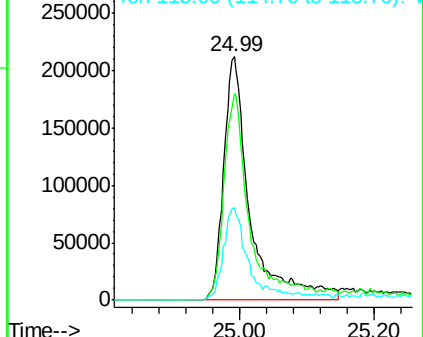
115 38.4 30.6 45.8

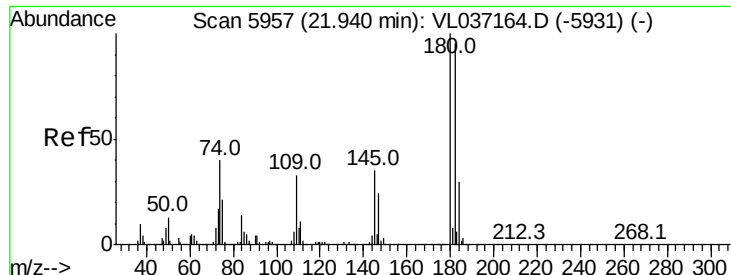


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

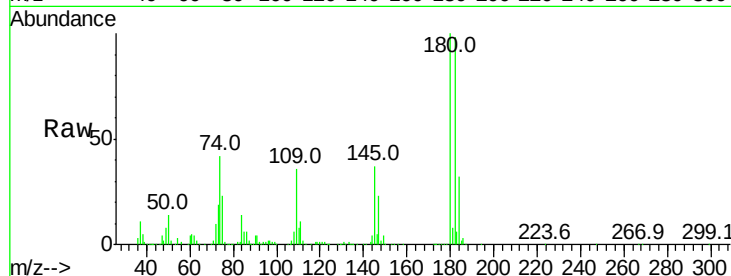




#81
 1,2,4-Trichlorobenzene
 Concen: 6.162 ppbv
 RT: 21.95 min Scan# 5960
 Delta R.T. 0.01 min
 Lab File: VL037269.D
 Acq: 2 Jul 2021 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tgt Ion:180 Resp: 1698255
 Ion Ratio Lower Upper
 180 100
 182 101.4 79.3 118.9
 184 32.1 24.7 37.1



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

