

Data File : VL032022.D

Acq On : 31 May 2018 20:04

Operator : SY/AP

Sample : VSTDIC015

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Jun 01 02:05:24 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 01:58:27 2018

QLast Update : Fri Jun 01 01:58:27 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1401293	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2704213	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2761104	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.71	95	2141961	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.15	85	1822586	10.20	ppbv	96
3) Chlorodifluoromethane	3.08	51	1439674	10.93	ppbv	100
4) Chloromethane	3.24	50	840089	12.32	ppbv	96
5) Vinyl Chloride	3.37	62	922327	11.87	ppbv	98
6) Bromomethane	3.59	94	668285	13.17	ppbv	96
7) Chloroethane	3.68	64	407091	13.69	ppbv	99
8) Dichlorotetrafluoroethane	3.29	85	2213884	12.11	ppbv	99
9) Propene	3.11	41	628776	13.17	ppbv	96
10) Heptane	8.37	43	2280256	13.73	ppbv	99
11) Trichlorofluoromethane	4.09	101	2798813	12.32	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.65	101	2293821	14.20	ppbv	100
13) Ethanol	3.73	45	186063	10.41	ppbv	100
14) Bromoethene	3.87	108	746707	12.84	ppbv	98
15) Acetone	3.99	43	1864086	9.53	ppbv	100
16) 1,3-Butadiene	3.44	39	800695	12.64	ppbv	95
17) tert-Butyl alcohol	4.45	59	968123	11.84	ppbv	99
18) 1,1-Dichloroethene	4.44	96	1057017	15.01	ppbv	93
19) Isopropyl Alcohol	4.11	45	1250767	11.47	ppbv	100
20) Methylene Chloride	4.50	84	1007952	14.89	ppbv	97
21) Allyl Chloride	4.57	41	1651604	14.49	ppbv	99
22) trans-1,2-Dichloroethene	5.06	96	1104549	14.10	ppbv	98
23) Vinyl Acetate	5.26	43	3142584	13.81	ppbv	99
24) 1,1-Dichloroethane	5.19	63	2915977	13.59	ppbv	99
25) Ethyl Acetate	5.87	43	4494243	13.19	ppbv	100
26) Hexane	5.89	57	2152372	13.39	ppbv	99
27) Carbon Disulfide	4.72	76	2901881	15.70	ppbv	100
28) Methyl tert-Butyl Ether	5.22	73	2757091	13.96	ppbv	99
29) Chloroform	5.96	83	3380923	13.18	ppbv	96
30) Cyclohexane	7.36	84	1420669	13.39	ppbv	98
31) cis-1,2-Dichloroethene	5.75	61	2130535	14.45	ppbv	98
32) 1,1,1-Trichloroethane	6.74	97	2788634	11.97	ppbv	100
34) 2-Butanone	5.43	43	2971063	13.29	ppbv	100
35) Carbon Tetrachloride	7.25	117	2944849	13.59	ppbv	98
36) Benzene	7.13	78	3478186	13.69	ppbv	100
37) 1,2-Dichloroethane	6.53	62	2232767	12.43	ppbv	99
38) Trichloroethene	8.08	130	1388199	14.29	ppbv	97
39) 1,2-Dichloropropane	7.86	63	1249530	14.06	ppbv	97
40) 1,4-Dioxane	8.07	88	541645	13.59	ppbv	99
41) Tetrahydrofuran	6.26	42	1519545	15.75	ppbv	99
42) Bromodichloromethane	8.04	83	2975085	14.44	ppbv	100
43) Methyl Methacrylate	8.26	69	1281253	14.78	ppbv	98

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Quant Time: Jun 01 02:05:24 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 01:58:27 2018

QLast Update : Fri Jun 01 01:58:27 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.12	57	5740258	13.89	ppbv	100
45) t-1,3-Dichloropropene	9.54	75	1934766	16.80	ppbv	99
46) cis-1,3-Dichloropropene	8.96	75	2284464	16.09	ppbv	100
47) 1,1,2-Trichloroethane	9.75	97	1518160	14.41	ppbv	98
48) Dibromochloromethane	10.58	129	2597431	15.27	ppbv	99
49) Bromoform	13.34	173	2123573	15.92	ppbv	99
50) 4-Methyl-2-Pentanone	8.99	43	3106253	14.72	ppbv	100
51) 2-Hexanone	10.39	43	2892385	15.04	ppbv #	100
52) Tetrachloroethene	11.50	164	1376619	14.55	ppbv	98
53) Toluene	10.08	91	4218374	15.31	ppbv	100
54) 1,2-Dibromoethane	10.89	107	2329347	14.85	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.41	131	1811478	14.24	ppbv #	75
57) Chlorobenzene	12.44	112	3356618	13.89	ppbv	98
58) Ethyl Benzene	13.00	91	6013554	15.03	ppbv	99
59) m/p-Xylene	13.28	91	5276260	15.43	ppbv #	38
60) o-Xylene	13.98	91	5061783	14.75	ppbv	100
61) Styrene	13.82	104	1206364	17.39	ppbv	99
62) Isopropylbenzene	14.96	105	6424283	14.71	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.97	83	3427066	14.12	ppbv	99
64) n-propylbenzene	15.85	120	1649477	15.02	ppbv	96
65) tert-Butylbenzene	17.04	119	5589554	14.38	ppbv	99
66) Benzyl Chloride	17.29	91	730059	20.14	ppbv	99
67) sec-Butylbenzene	17.59	105	8057212	14.89	ppbv	100
69) p-Isopropyltoluene	17.95	119	6602719	15.23	ppbv	99
70) n-Butylbenzene	18.84	91	6892533	15.39	ppbv	99
71) 2-Chlorotoluene	15.75	91	4931045	15.37	ppbv	100
72) 4-Ethyltoluene	16.13	105	5395178	15.48	ppbv	100
73) 1,3,5-Trimethylbenzene	16.29	105	4920901	15.37	ppbv	98
74) 1,2,4-Trimethylbenzene	17.06	105	5158391	14.50	ppbv	96
75) 1,3-Dichlorobenzene	17.30	146	3295229	14.90	ppbv	100
76) 1,4-Dichlorobenzene	17.44	146	3353261	15.34	ppbv	100
77) 1,2-Dichlorobenzene	18.12	146	3281938	14.89	ppbv	100
78) Hexachloro-1,3-Butadiene	23.67	225	1167586	12.95	ppbv	99
79) Naphthalene	22.56	128	4288772	17.56	ppbv	98
80) Naphthalene,2-methyl-	25.21	142	1272281	19.76	ppbv	99
81) 1,2,4-Trichlorobenzene	22.29	180	2182646	16.13	ppbv	98

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

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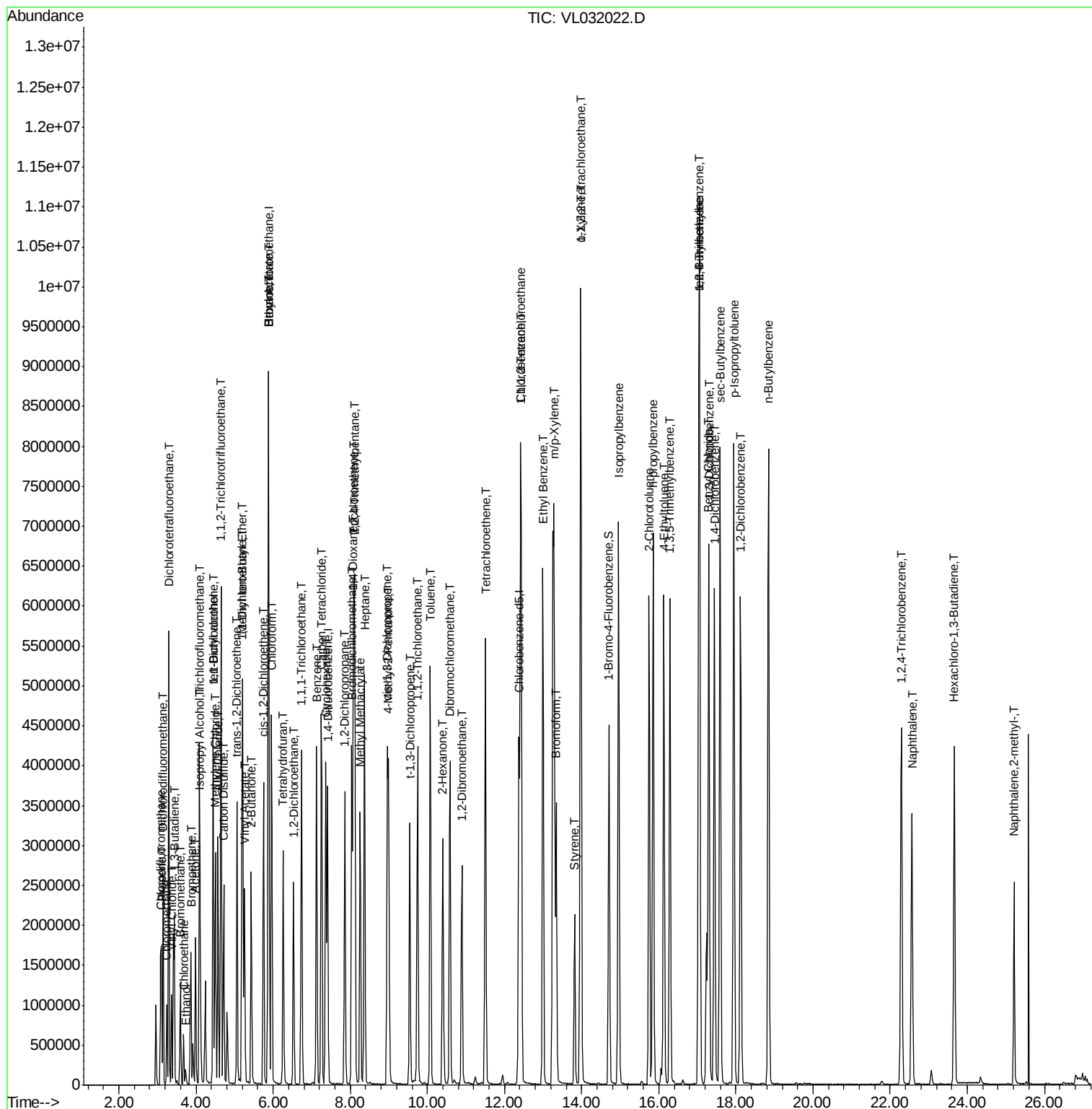
Quant Time: Jun 01 02:05:24 2018

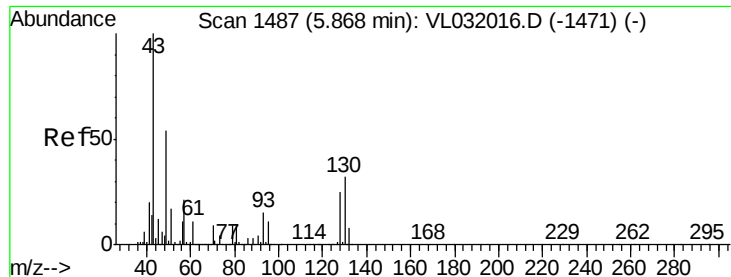
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Jun 01 01:58:27 2018

QLast Update : Fri Jun 01 01:58:27 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.87 min Scan# 1488

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

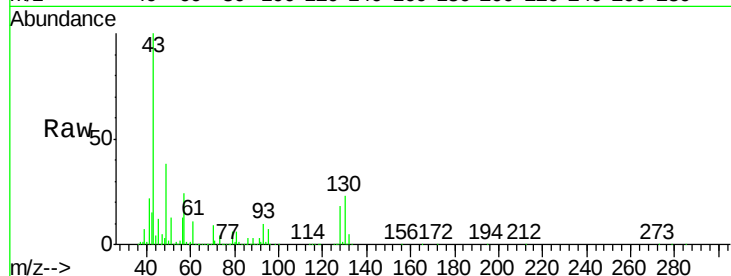
Tgt Ion: 49 Resp: 1401293

Ion Ratio Lower Upper

49 100

128 47.5 24.1 72.3

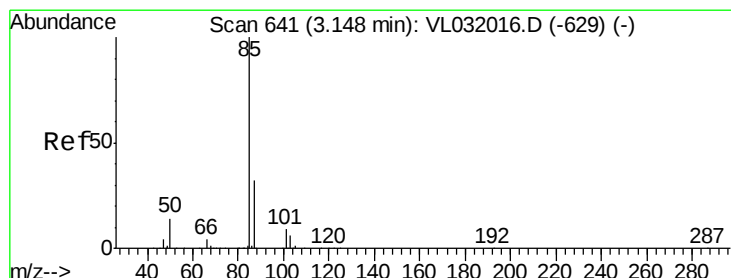
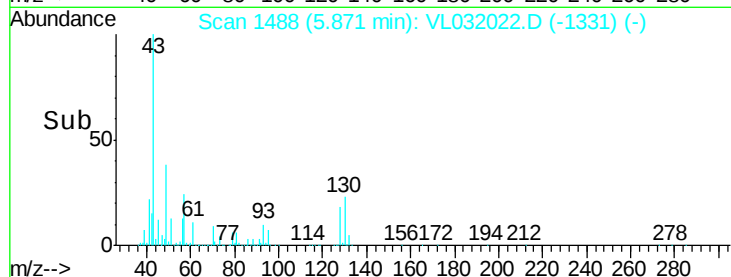
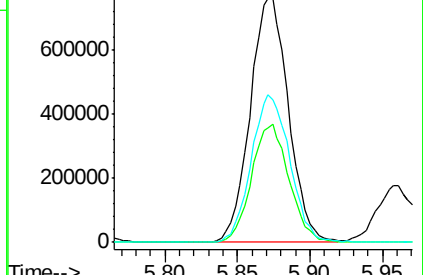
130 61.0 30.9 92.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 10.20 ppbv

RT: 3.15 min Scan# 641

Delta R.T. 0.00 min

Lab File: VL032022.D

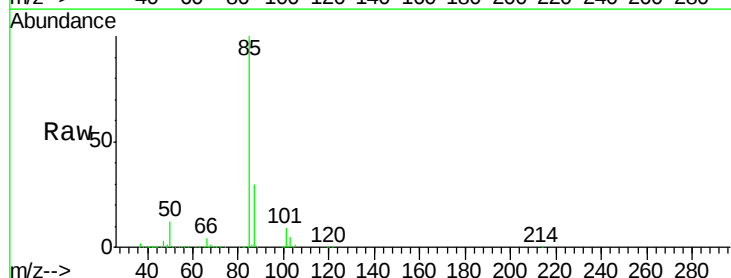
Acq: 31 May 2018 20:04

Tgt Ion: 85 Resp: 1822586

Ion Ratio Lower Upper

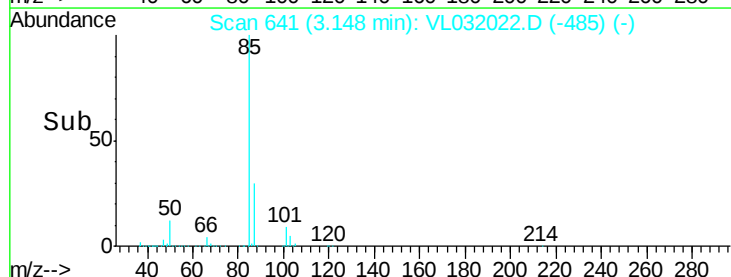
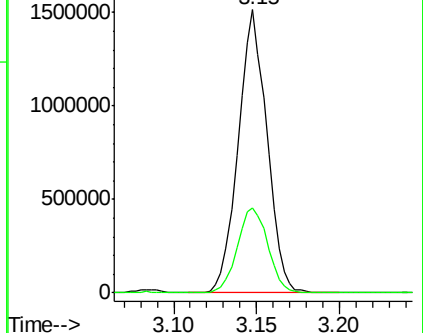
85 100

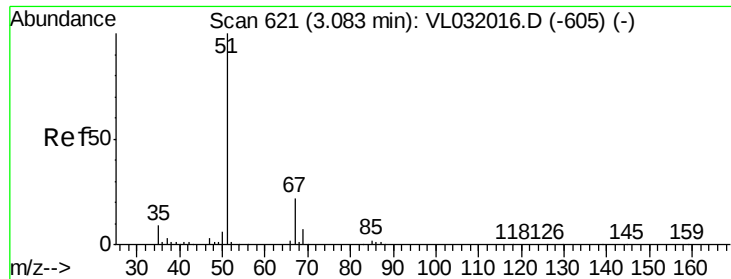
87 29.8 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.93 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

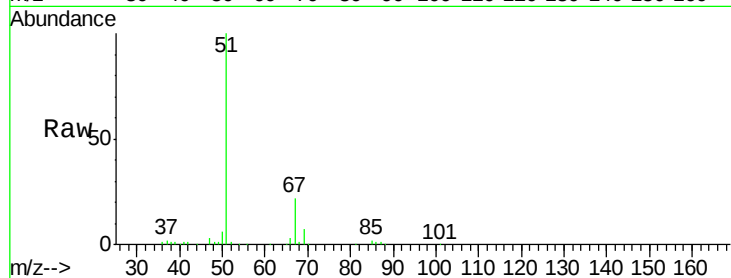
VSTDIC015

Tgt Ion: 51 Resp: 1439674

Ion Ratio Lower Upper

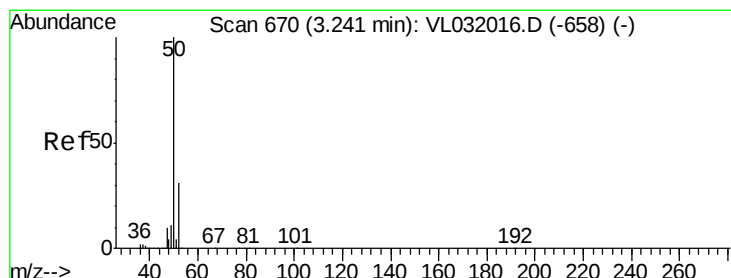
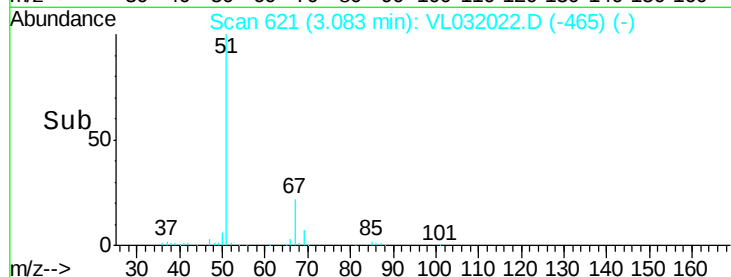
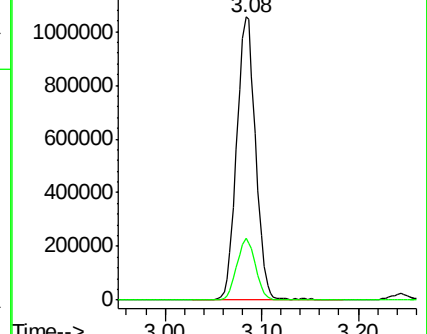
51 100

67 21.6 17.2 25.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 12.32 ppbv

RT: 3.24 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL032022.D

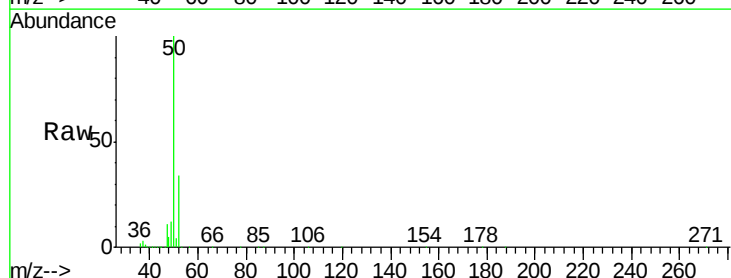
Acq: 31 May 2018 20:04

Tgt Ion: 50 Resp: 840089

Ion Ratio Lower Upper

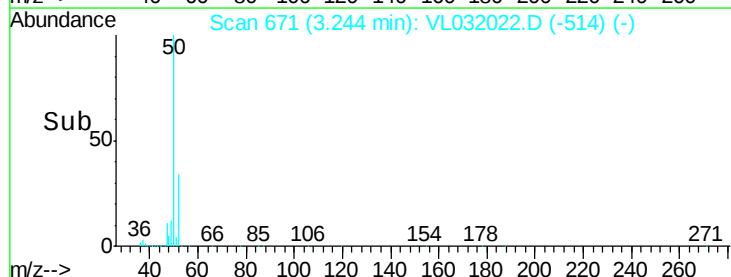
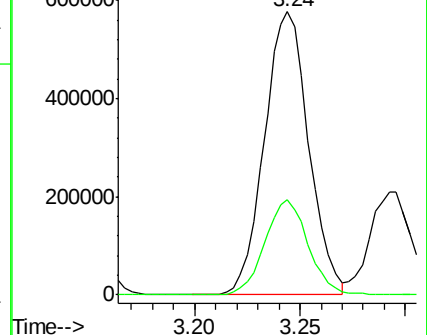
50 100

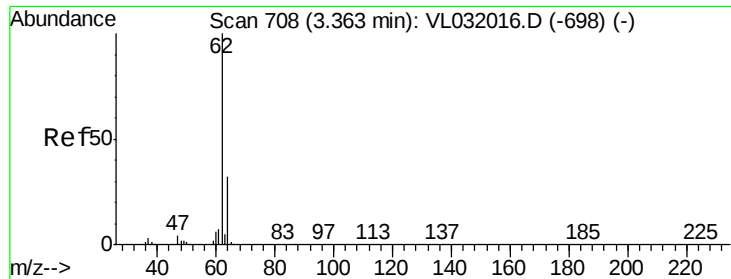
52 33.5 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 11.87 ppbv

RT: 3.37 min Scan# 709

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

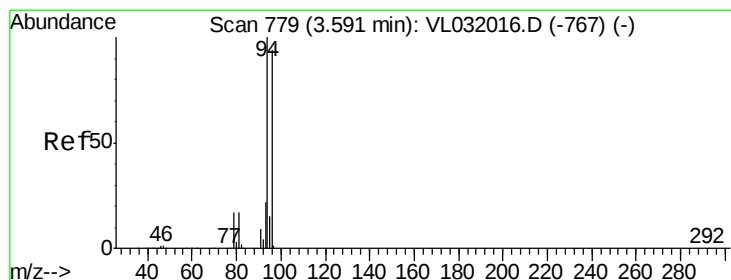
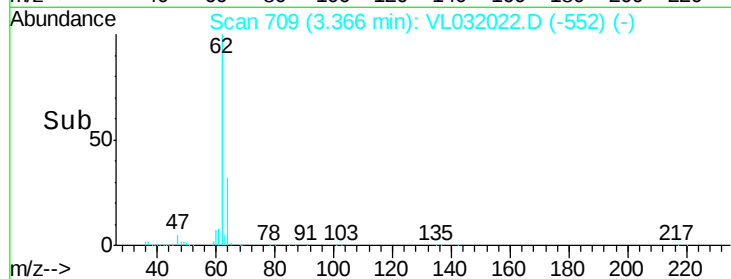
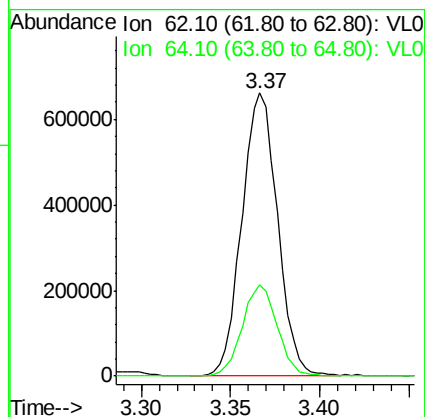
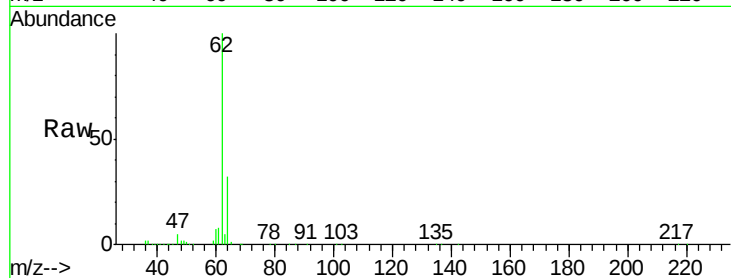
VSTDIC015

Tgt Ion: 62 Resp: 922327

Ion Ratio Lower Upper

62 100

64 32.4 25.2 37.8



#6

Bromomethane

Concen: 13.17 ppbv

RT: 3.59 min Scan# 779

Delta R.T. 0.00 min

Lab File: VL032022.D

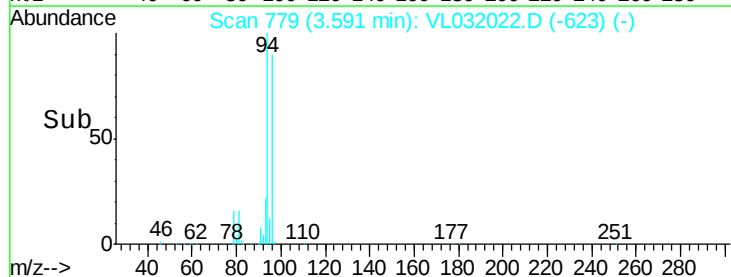
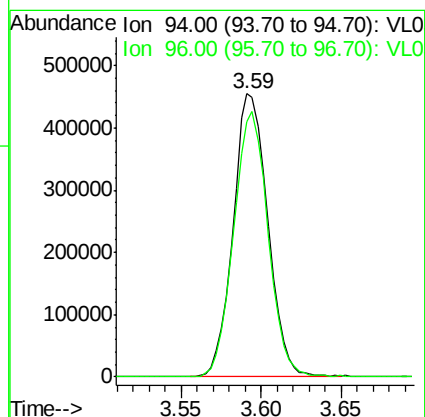
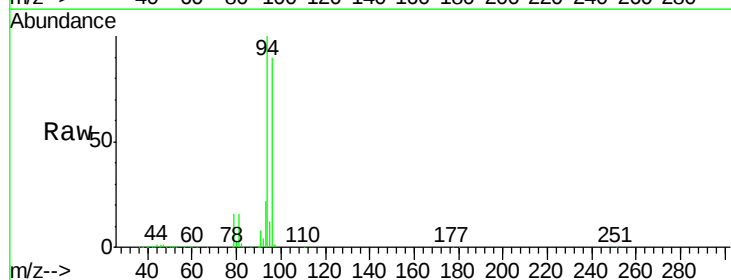
Acq: 31 May 2018 20:04

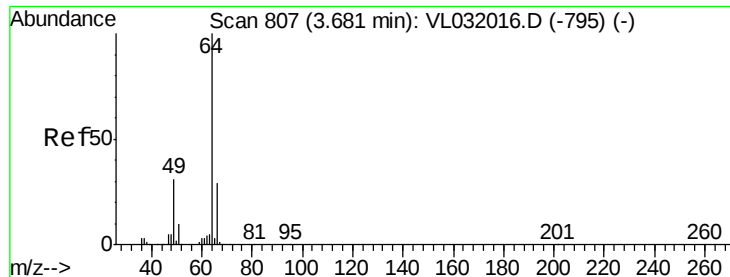
Tgt Ion: 94 Resp: 668285

Ion Ratio Lower Upper

94 100

96 90.0 75.1 112.7





#7

Chloroethane

Concen: 13.69 ppbv

RT: 3.68 min Scan# 807

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

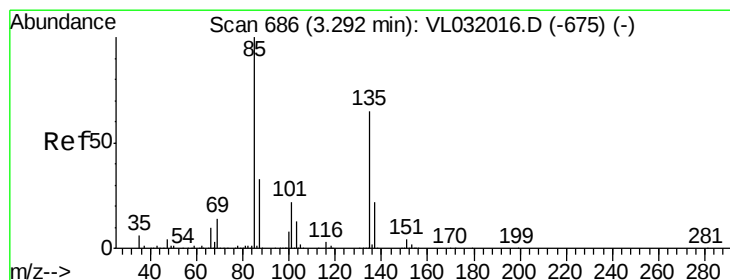
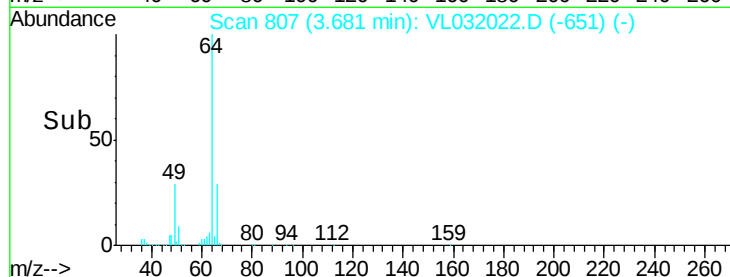
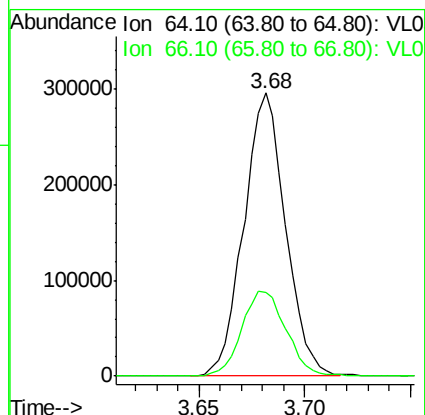
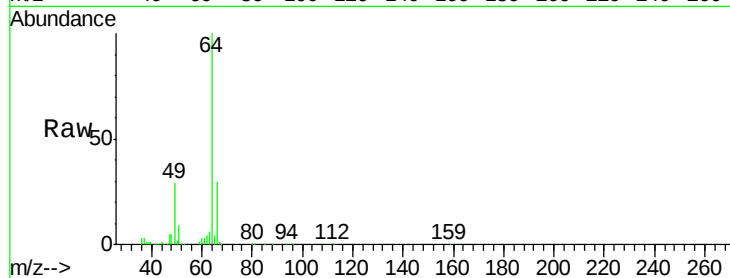
VSTDIC015

Tgt Ion: 64 Resp: 407091

Ion Ratio Lower Upper

64 100

66 29.6 23.4 35.2



#8

Dichlorotetrafluoroethane

Concen: 12.11 ppbv

RT: 3.29 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL032022.D

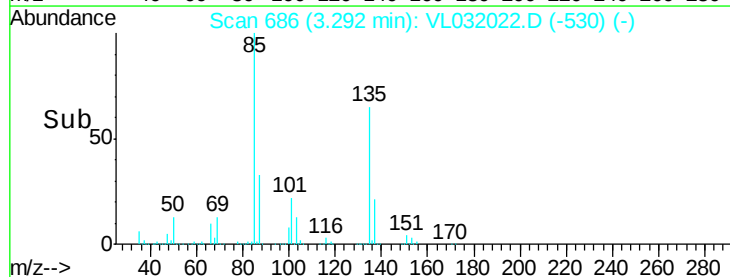
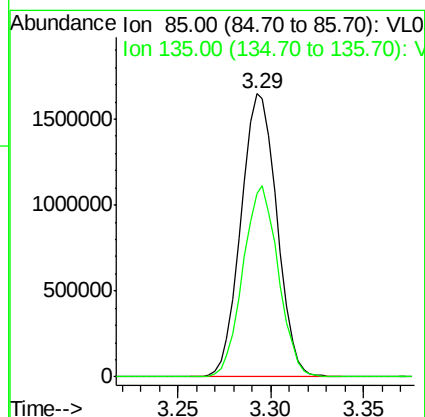
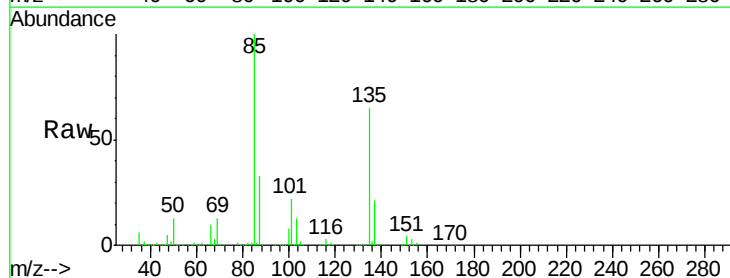
Acq: 31 May 2018 20:04

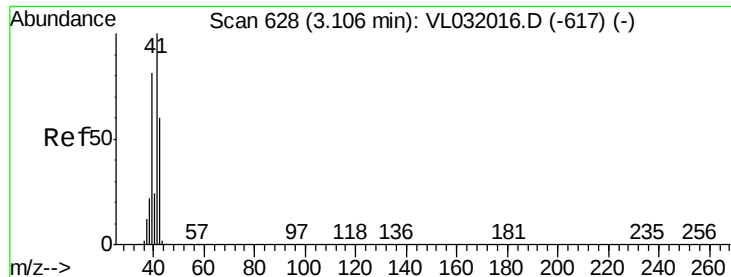
Tgt Ion: 85 Resp: 2213884

Ion Ratio Lower Upper

85 100

135 66.7 52.6 79.0





#9

Propene

Concen: 13.17 ppbv

RT: 3.11 min Scan# 628

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

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ClientSampleId :

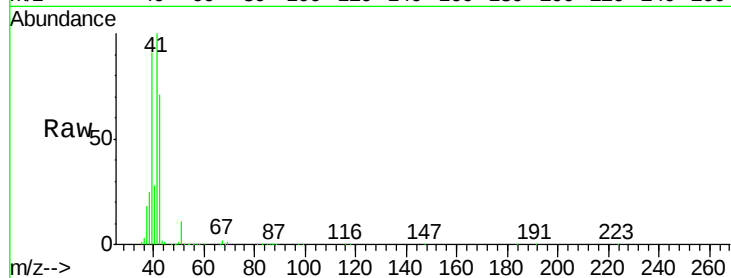
VSTDIC015

Tgt Ion: 41 Resp: 628776

Ion Ratio Lower Upper

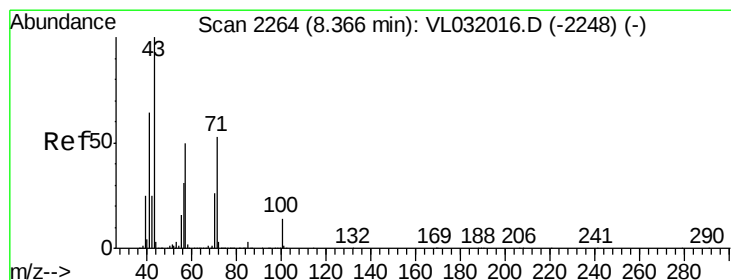
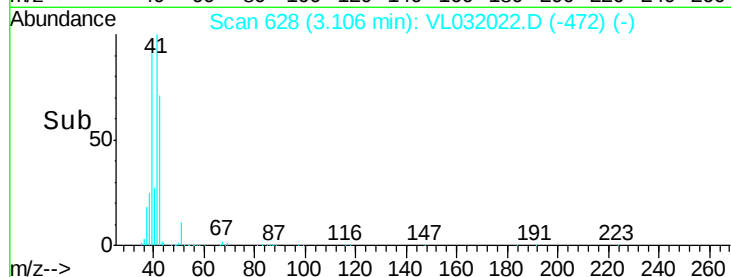
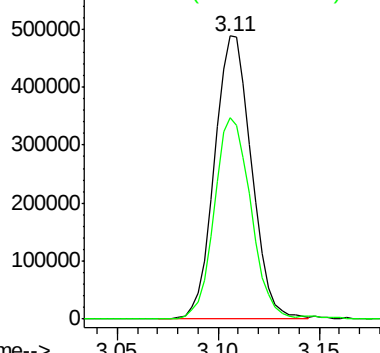
41 100

42 71.0 54.4 81.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 13.73 ppbv

RT: 8.37 min Scan# 2264

Delta R.T. 0.00 min

Lab File: VL032022.D

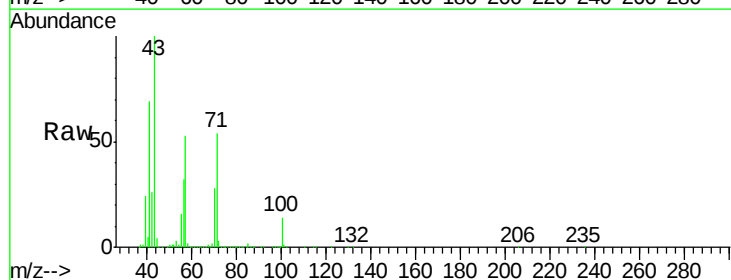
Acq: 31 May 2018 20:04

Tgt Ion: 43 Resp: 2280256

Ion Ratio Lower Upper

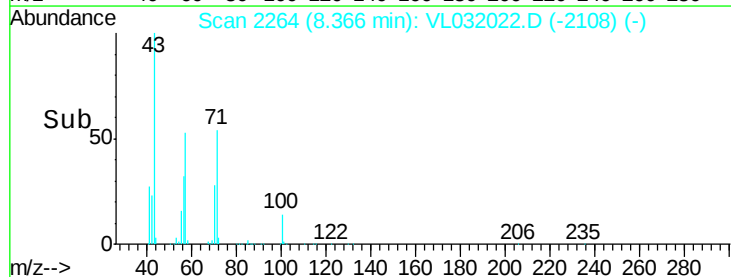
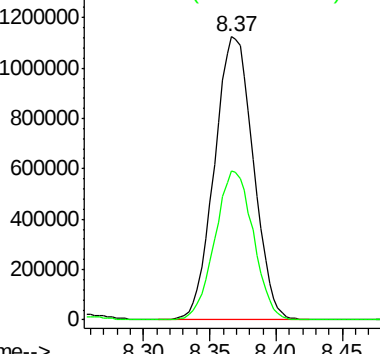
43 100

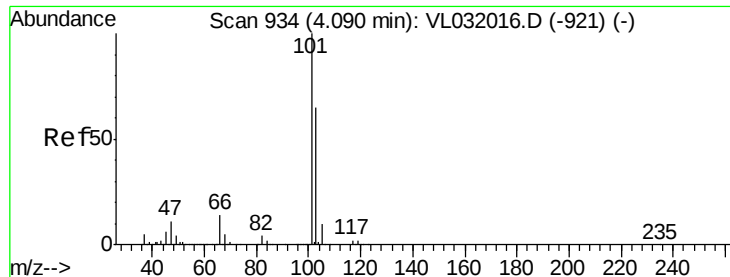
57 52.5 41.7 62.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

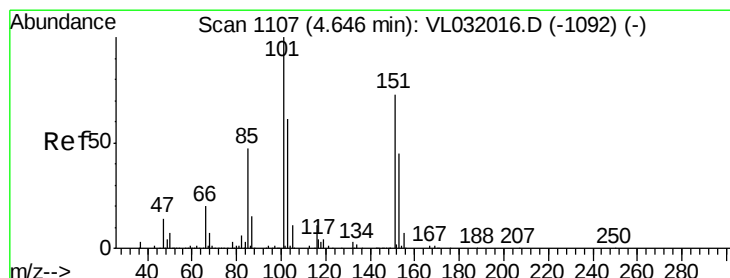
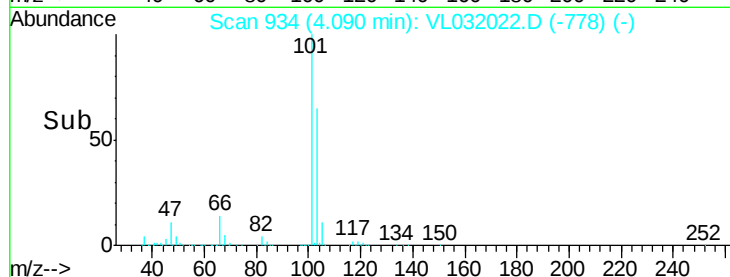
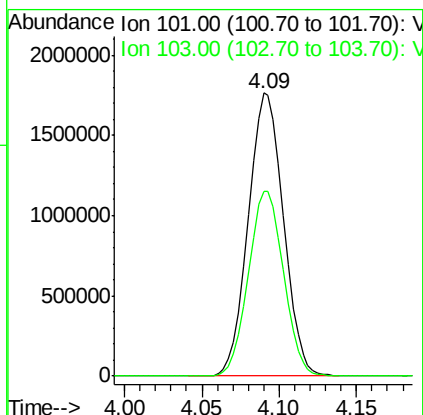
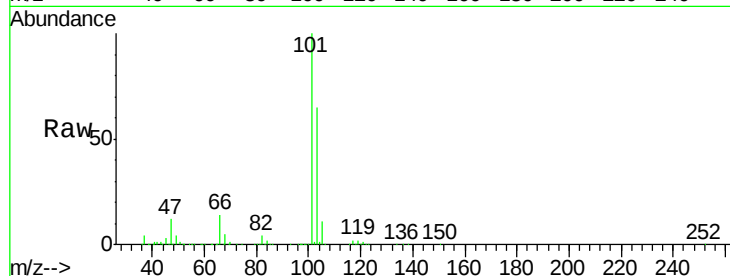




#11
 Trichlorofluoromethane
 Concen: 12.32 ppbv
 RT: 4.09 min Scan# 934
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

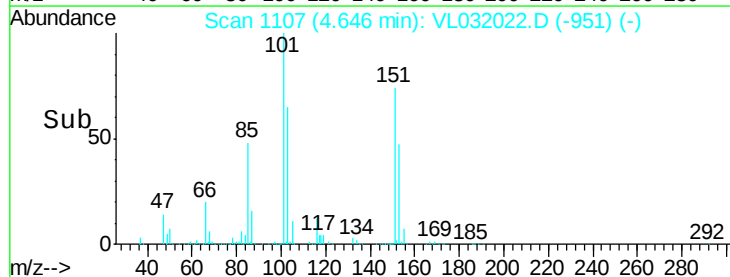
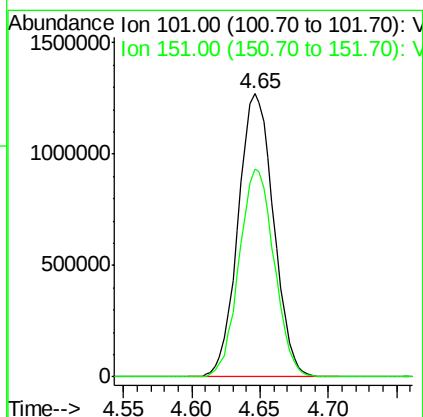
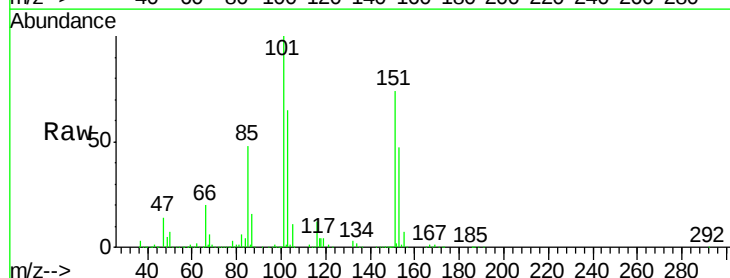
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

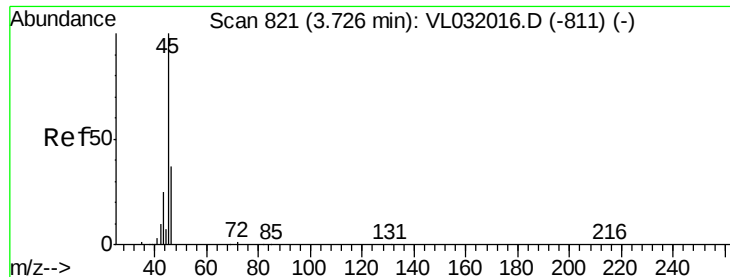
Tgt Ion:101 Resp: 2798813
 Ion Ratio Lower Upper
 101 100
 103 65.2 52.0 78.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.20 ppbv
 RT: 4.65 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion:101 Resp: 2293821
 Ion Ratio Lower Upper
 101 100
 151 72.7 58.2 87.4





#13

Ethanol

Concen: 10.41 ppbv

RT: 3.73 min Scan# 823

Delta R.T. 0.01 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

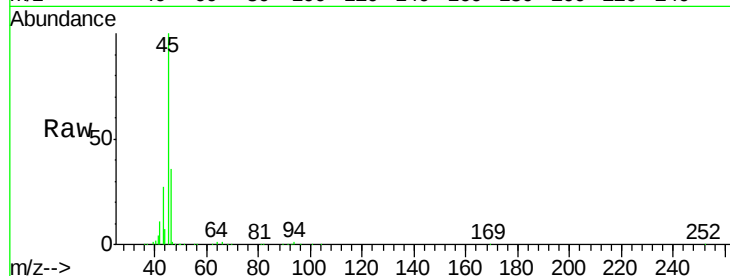
VSTDIC015

Tgt Ion: 45 Resp: 186063

Ion Ratio Lower Upper

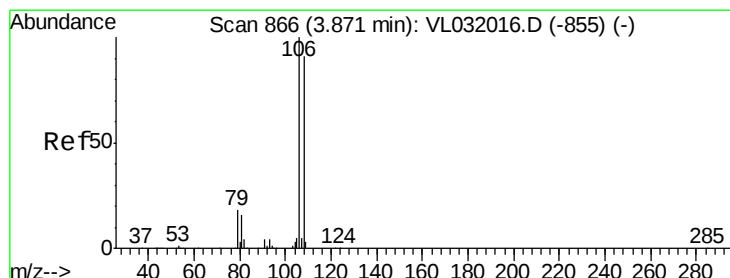
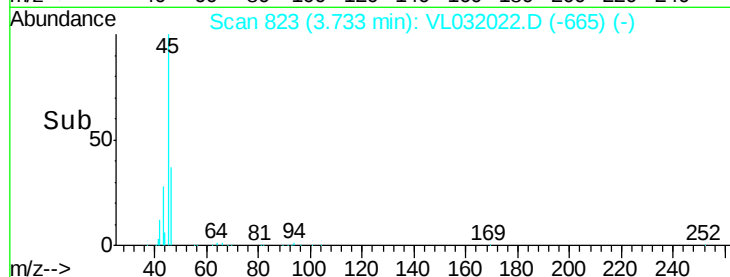
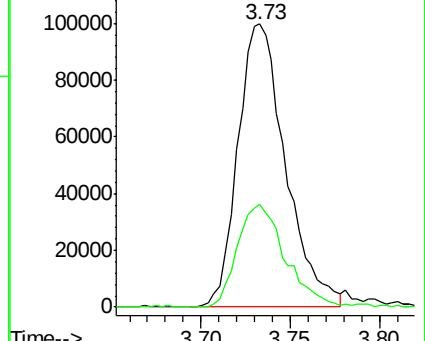
45 100

46 37.3 14.9 59.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 12.84 ppbv

RT: 3.87 min Scan# 866

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

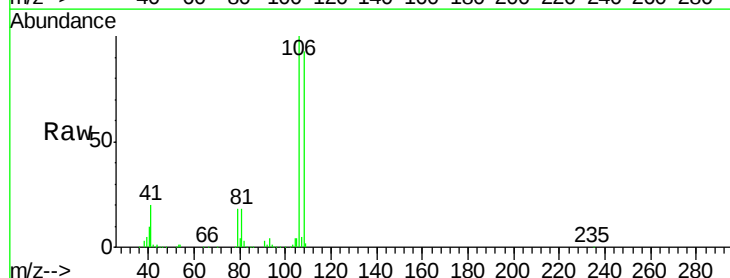
Tgt Ion: 108 Resp: 746707

Ion Ratio Lower Upper

108 100

106 108.1 85.1 127.7

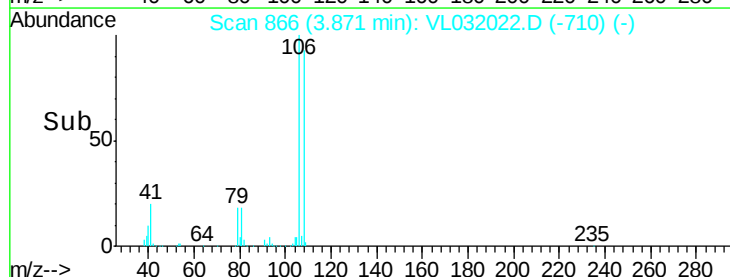
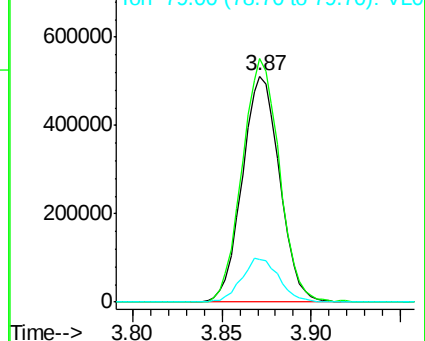
79 19.8 15.2 22.8

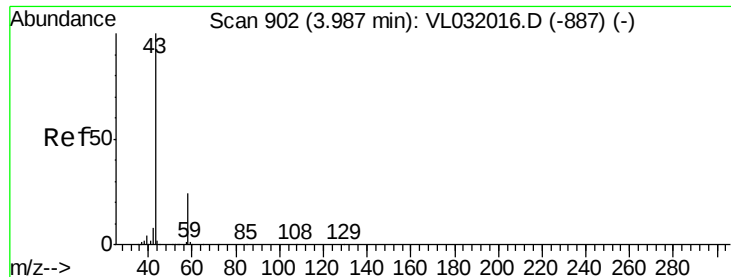


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 9.53 ppbv

RT: 3.99 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

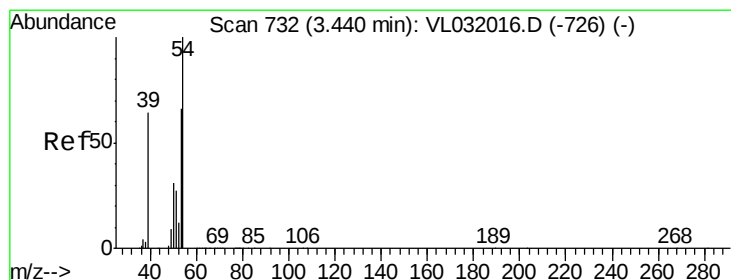
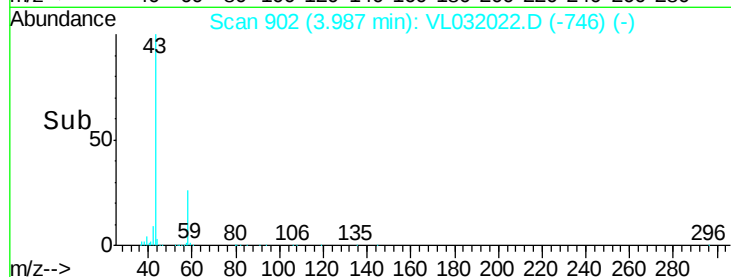
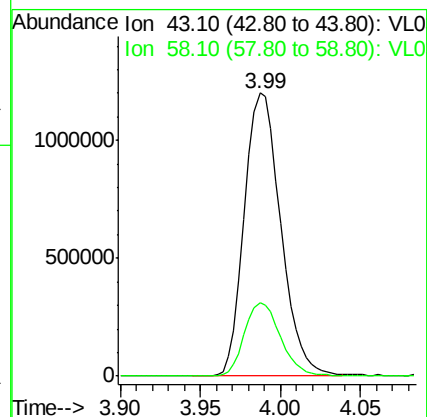
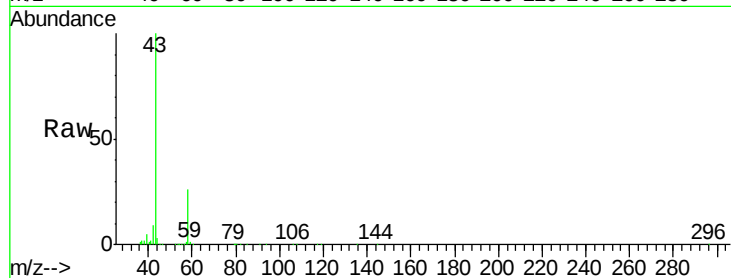
VSTDIC015

Tgt Ion: 43 Resp: 1864086

Ion Ratio Lower Upper

43 100

58 25.8 20.7 31.1



#16

1,3-Butadiene

Concen: 12.64 ppbv

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VL032022.D

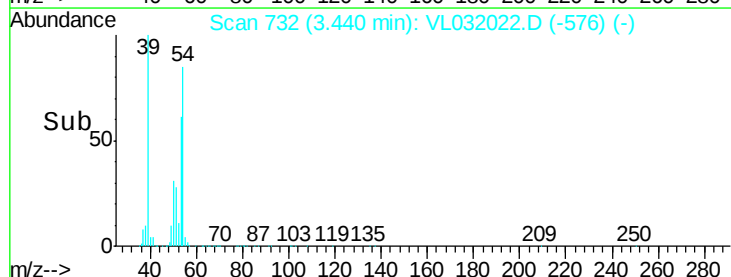
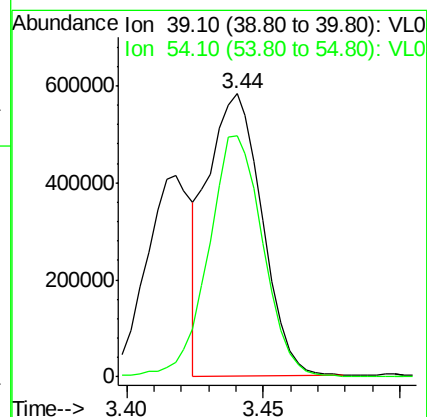
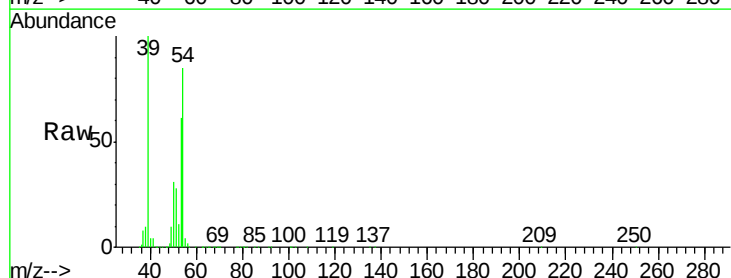
Acq: 31 May 2018 20:04

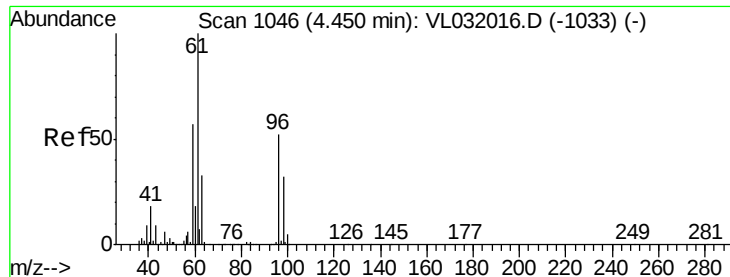
Tgt Ion: 39 Resp: 800695

Ion Ratio Lower Upper

39 100

54 86.6 65.7 98.5





#17

tert-Butyl alcohol

Concen: 11.84 ppbv

RT: 4.45 min Scan# 1046

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

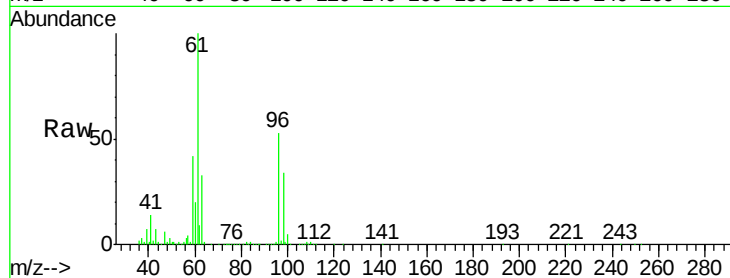
VSTDIC015

Tgt Ion: 59 Resp: 968123

Ion Ratio Lower Upper

59 100

57 10.2 8.3 12.5



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.45

500000

400000

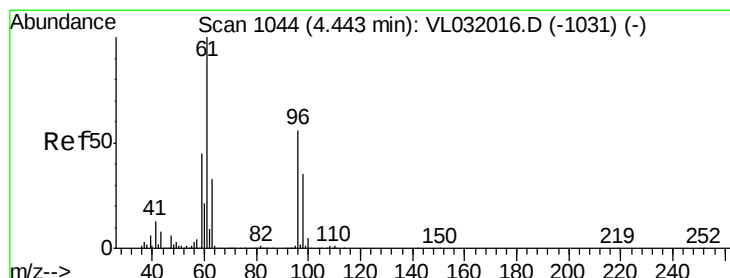
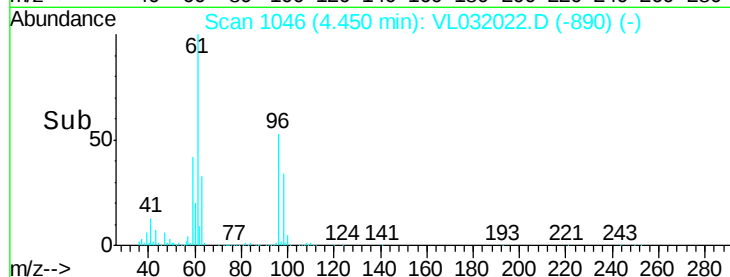
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 15.01 ppbv

RT: 4.44 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

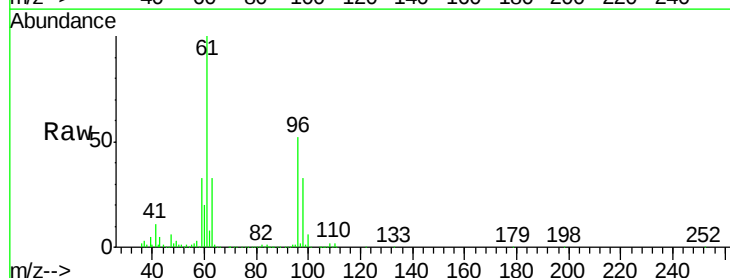
Tgt Ion: 96 Resp: 1057017

Ion Ratio Lower Upper

96 100

61 192.3 143.5 215.3

98 64.2 50.0 75.0



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

4.44

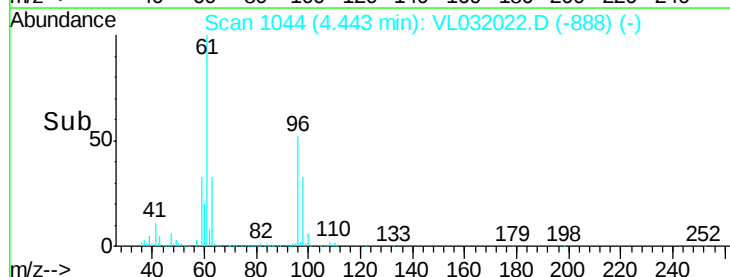
1500000

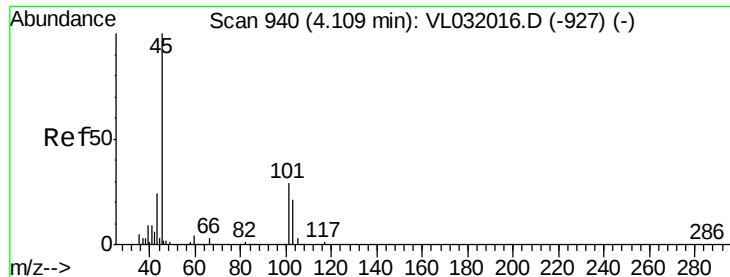
1000000

500000

0

Time-->



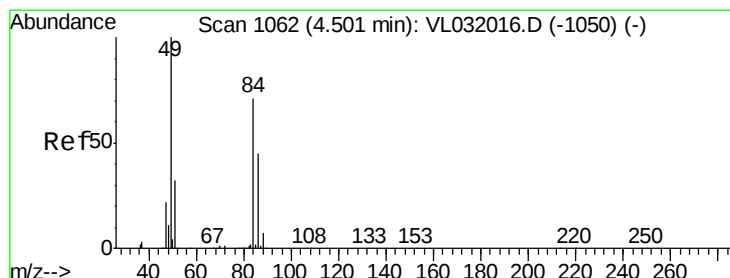
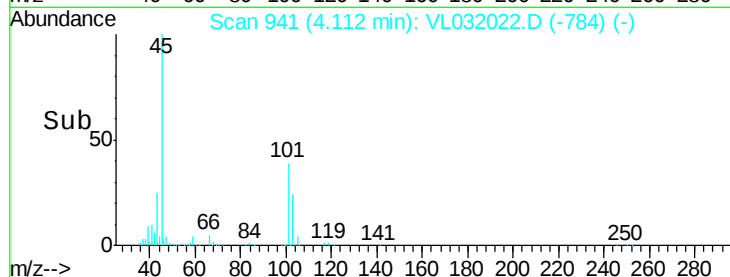
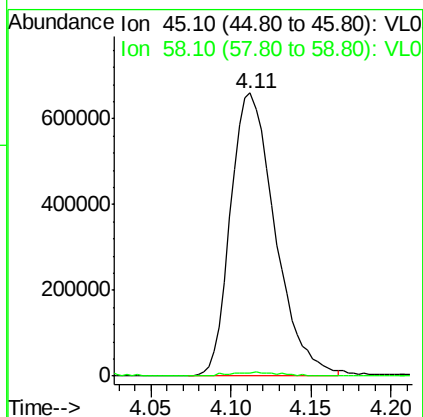
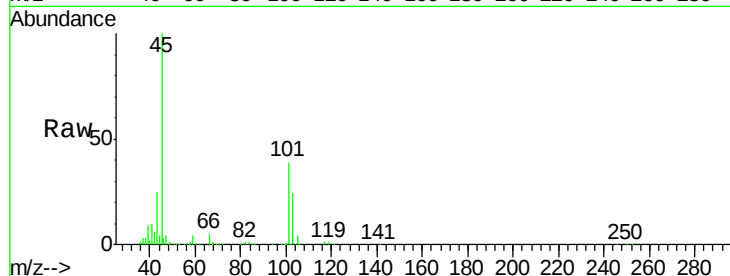


#19

Isopropyl Alcohol
 Concen: 11.47 ppbv
 RT: 4.11 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

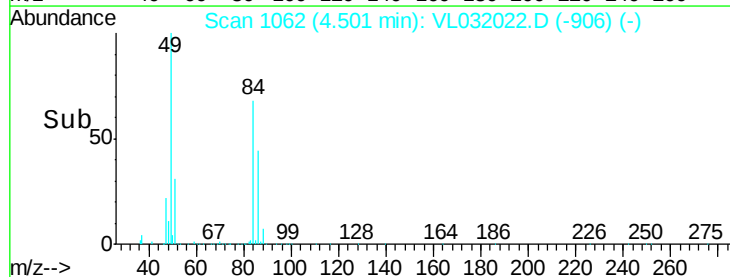
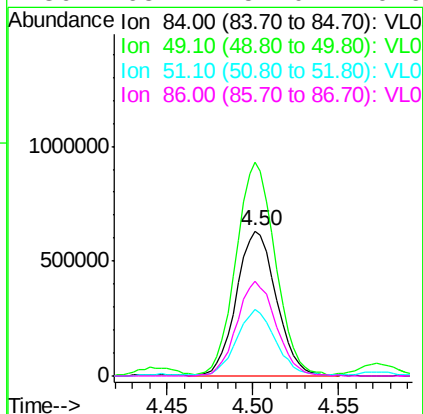
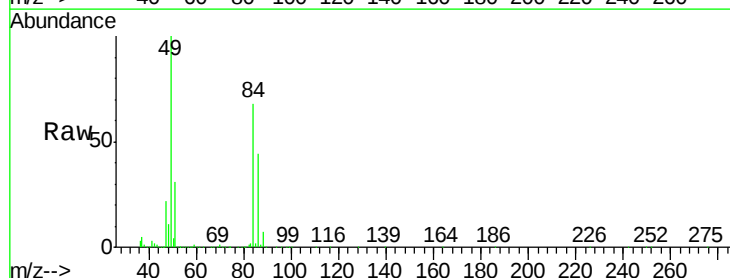
Tgt Ion: 45 Resp: 1250767
 Ion Ratio Lower Upper
 45 100
 58 1.8 1.5 2.3

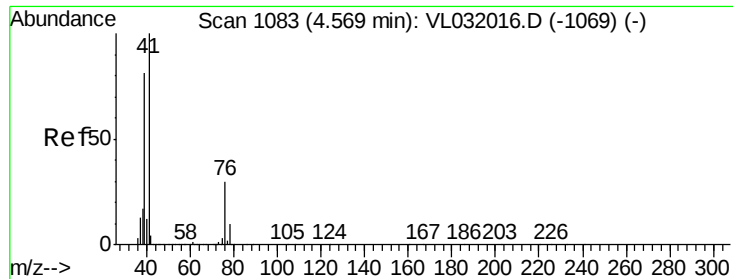


#20

Methylene Chloride
 Concen: 14.89 ppbv
 RT: 4.50 min Scan# 1062
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion: 84 Resp: 1007952
 Ion Ratio Lower Upper
 84 100
 49 146.6 113.0 169.4
 51 44.9 36.4 54.6
 86 65.1 51.0 76.6

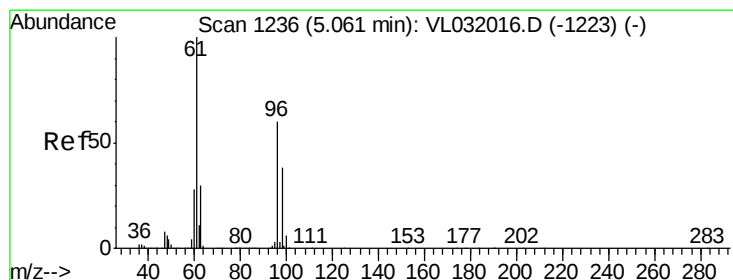
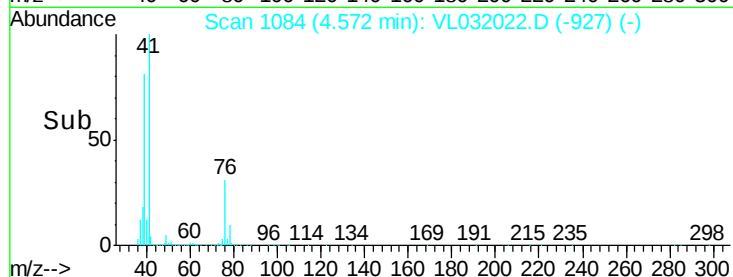
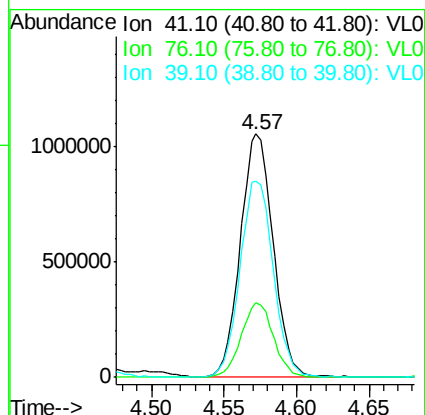
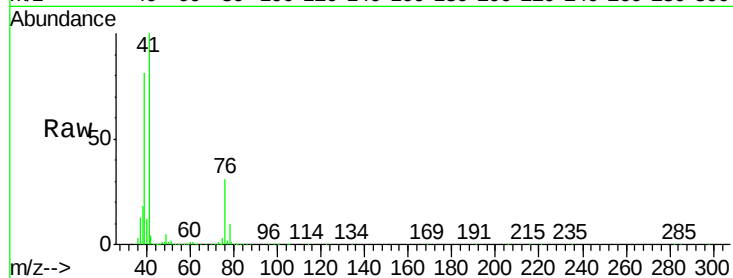




#21
 Allyl Chloride
 Concen: 14.49 ppbv
 RT: 4.57 min Scan# 1084
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

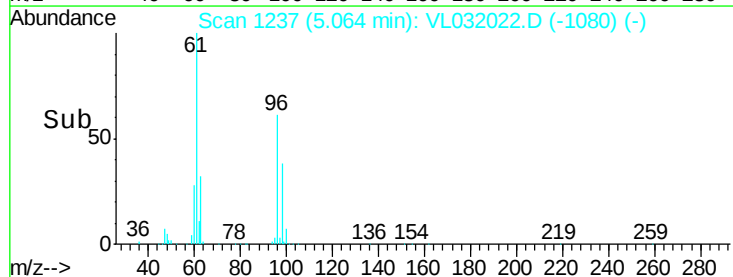
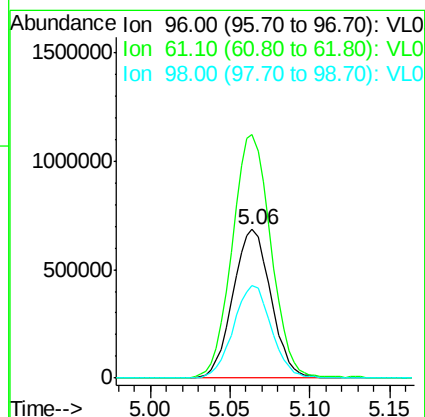
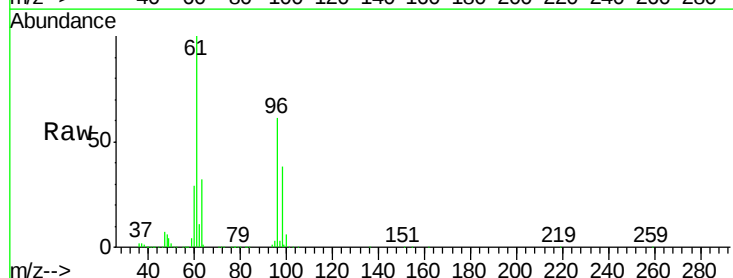
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

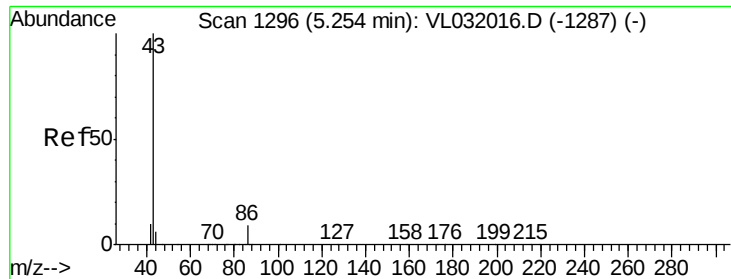
Tgt Ion: 41 Resp: 1651604
 Ion Ratio Lower Upper
 41 100
 76 30.4 23.9 35.9
 39 83.2 65.9 98.9



#22
 trans-1,2-Dichloroethene
 Concen: 14.10 ppbv
 RT: 5.06 min Scan# 1237
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion: 96 Resp: 1104549
 Ion Ratio Lower Upper
 96 100
 61 163.9 133.3 199.9
 98 62.5 51.0 76.4





#23

Vinyl Acetate

Concen: 13.81 ppbv

RT: 5.26 min Scan# 1297

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3142584

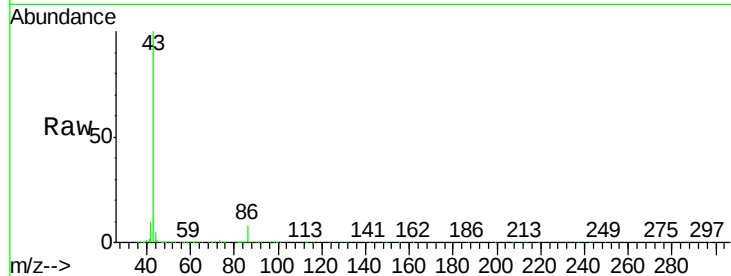
Ion Ratio Lower Upper

43 100

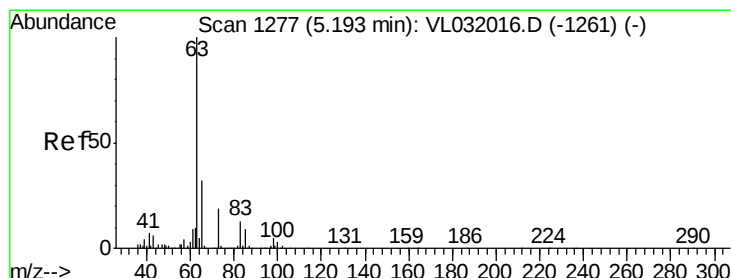
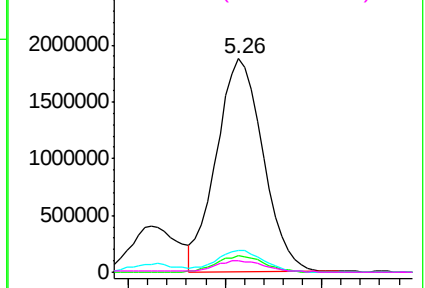
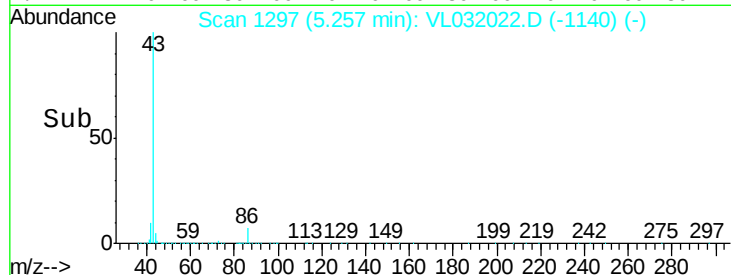
86 7.5 6.2 9.4

42 10.4 8.7 13.1

44 5.0 4.6 6.8



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: 13.59 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

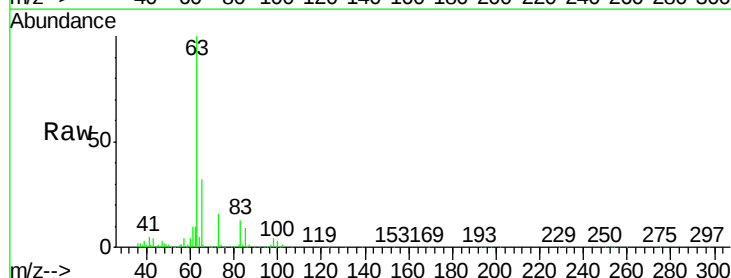
Tgt Ion: 63 Resp: 2915977

Ion Ratio Lower Upper

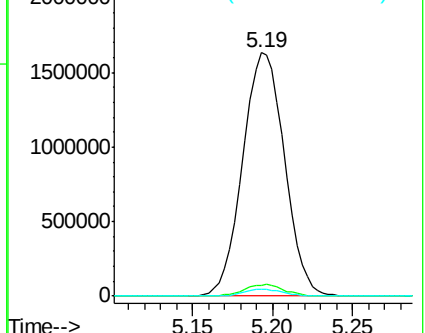
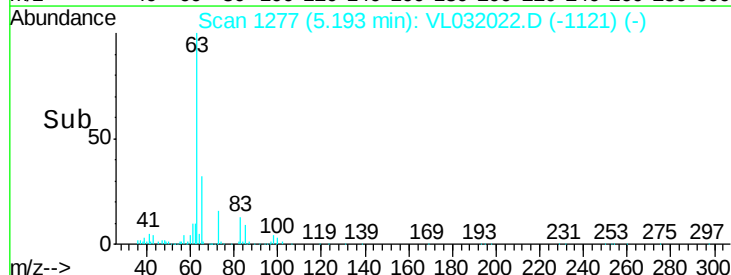
63 100

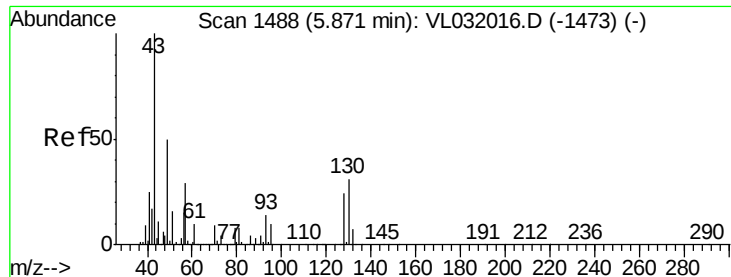
98 4.4 2.4 7.1

100 2.6 1.5 4.5



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



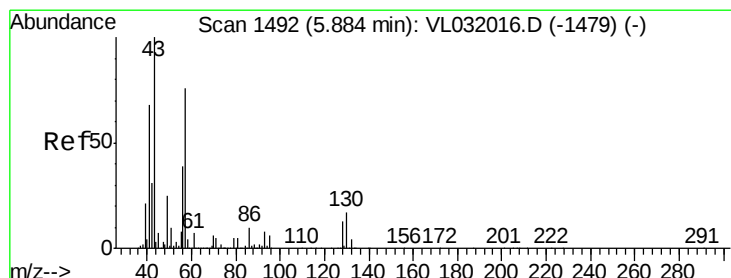
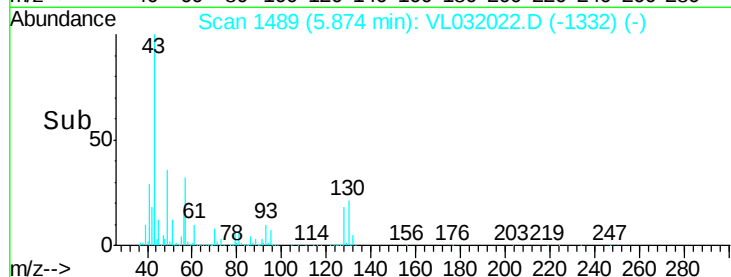
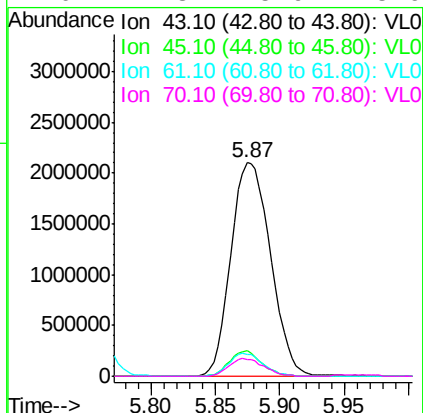
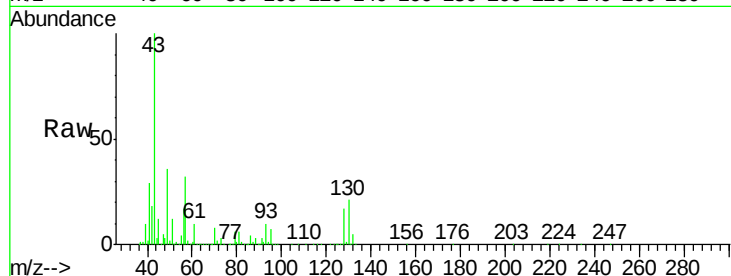


#25
Ethyl Acetate
Concen: 13.19 ppbv
RT: 5.87 min Scan# 1489
Delta R.T. 0.00 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 4494243

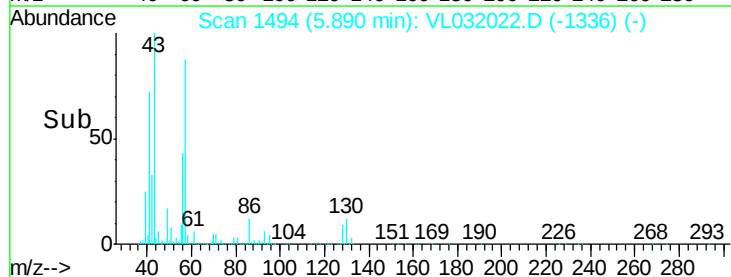
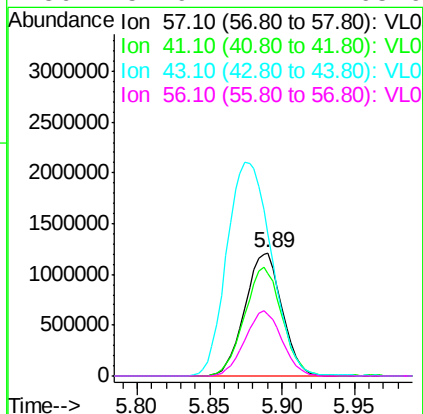
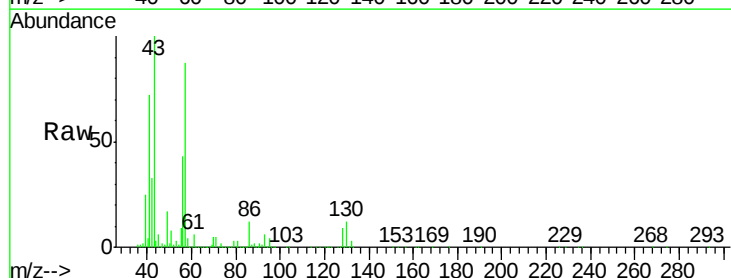
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.6
61	9.3	7.4	11.2
70	7.3	5.9	8.9

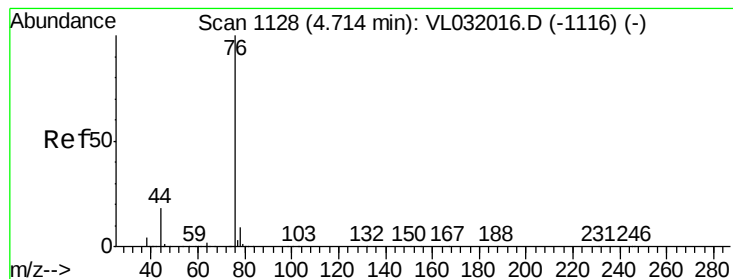


#26
Hexane
Concen: 13.39 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

Tgt Ion: 57 Resp: 2152372

Ion	Ratio	Lower	Upper
57	100		
41	89.9	71.4	107.2
43	209.4	168.6	252.8
56	52.9	42.4	63.6





#27

Carbon Disulfide

Concen: 15.70 ppbv

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

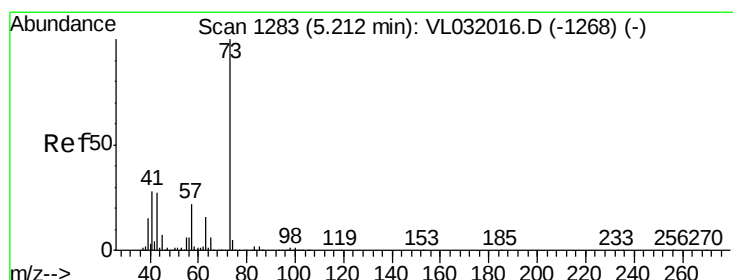
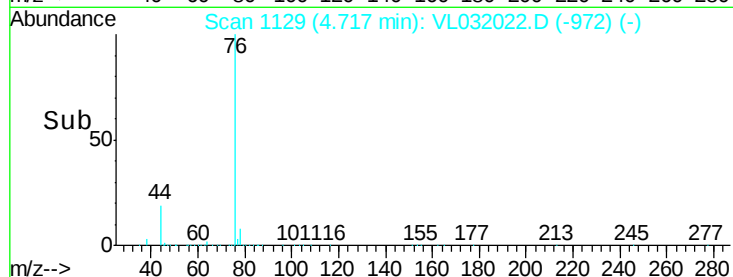
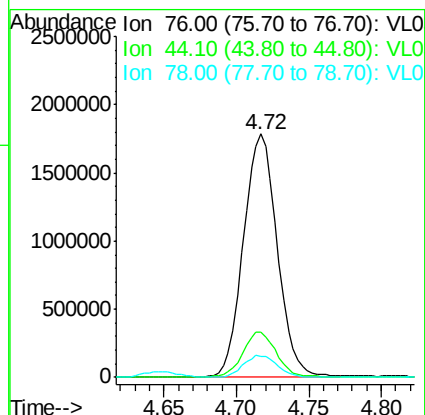
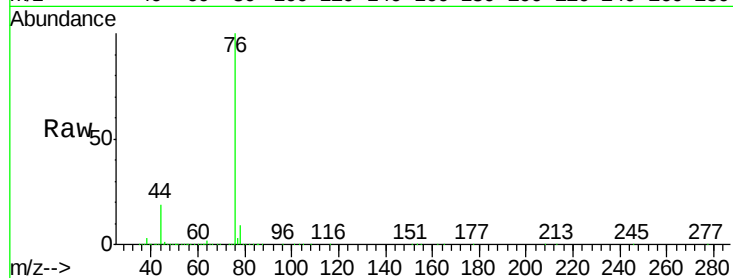
Tgt Ion: 76 Resp: 2901881

Ion	Ratio	Lower	Upper
76	100		
44	18.6	14.9	22.3
78	9.1	7.6	11.4

76 100

44 18.6 14.9 22.3

78 9.1 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 13.96 ppbv

RT: 5.22 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VL032022.D

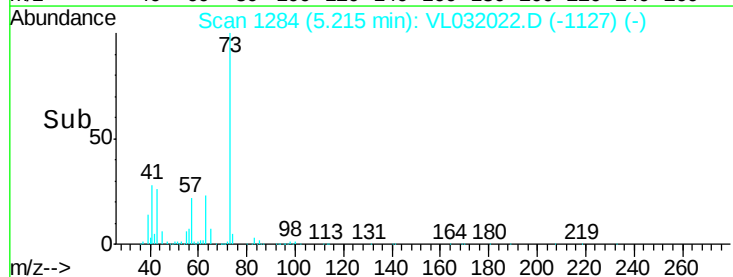
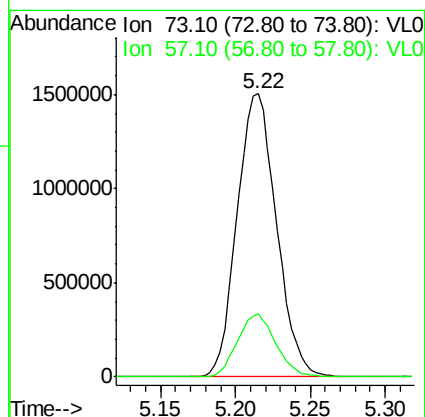
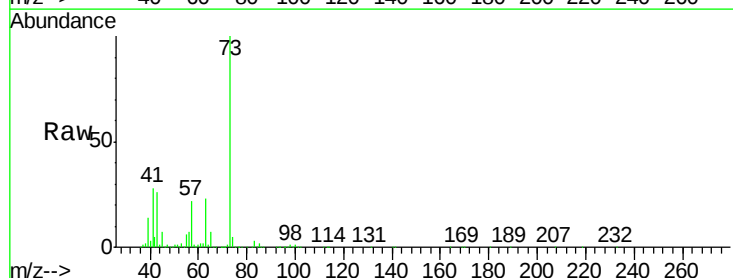
Acq: 31 May 2018 20:04

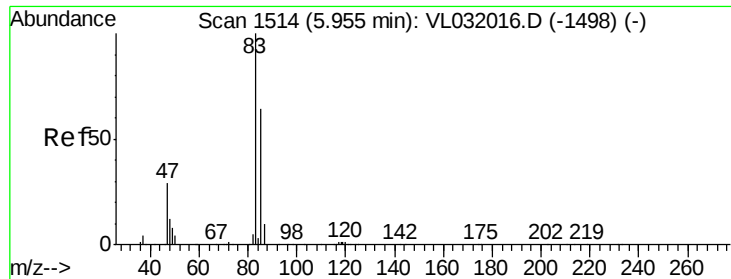
Tgt Ion: 73 Resp: 2757091

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.8	26.8

73 100

57 21.8 17.8 26.8

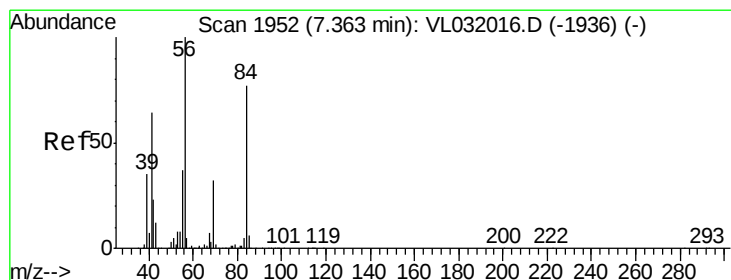
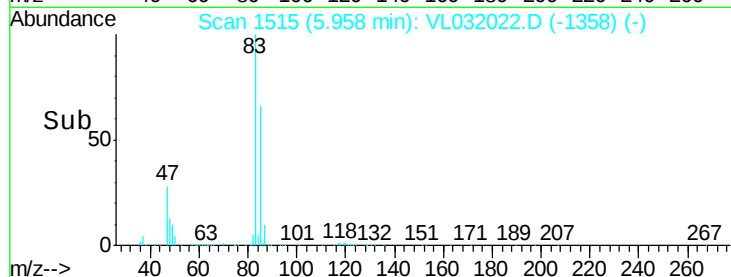
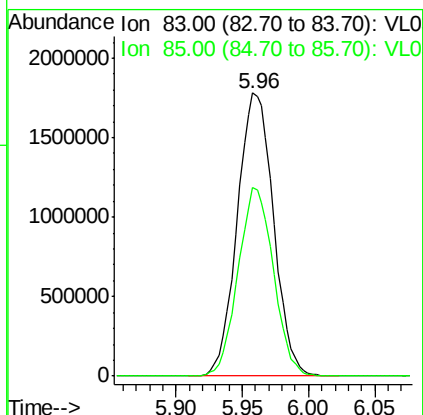
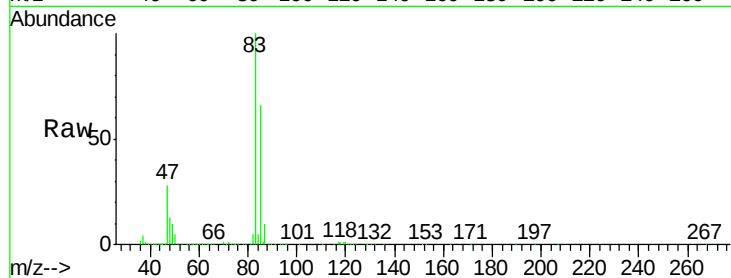




#29
Chloroform
Concen: 13.18 ppbv
RT: 5.96 min Scan# 1515
Delta R.T. 0.00 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

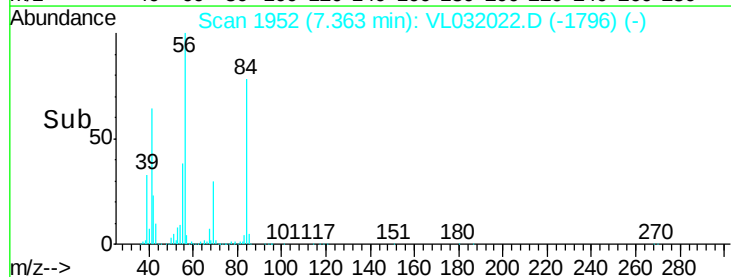
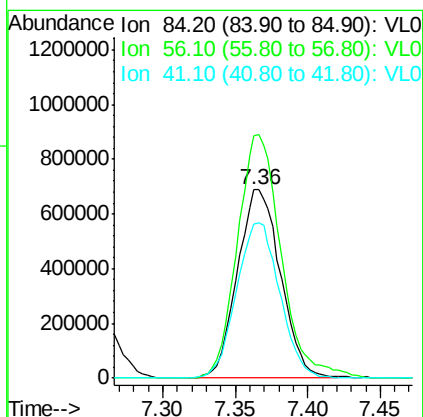
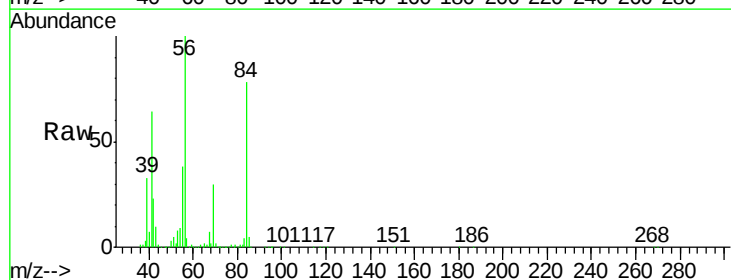
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

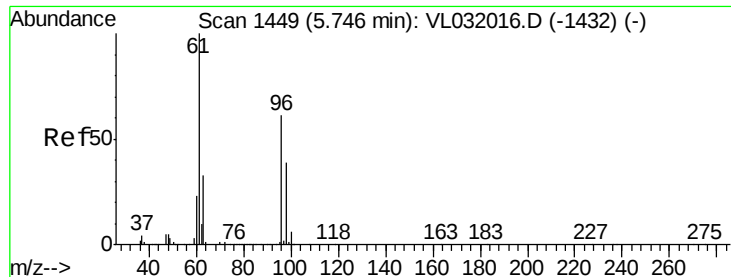
Tgt Ion: 83 Resp: 3380923
Ion Ratio Lower Upper
83 100
85 66.4 50.9 76.3



#30
Cyclohexane
Concen: 13.39 ppbv
RT: 7.36 min Scan# 1952
Delta R.T. 0.00 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

Tgt Ion: 84 Resp: 1420669
Ion Ratio Lower Upper
84 100
56 131.8 108.6 162.8
41 82.7 66.8 100.2

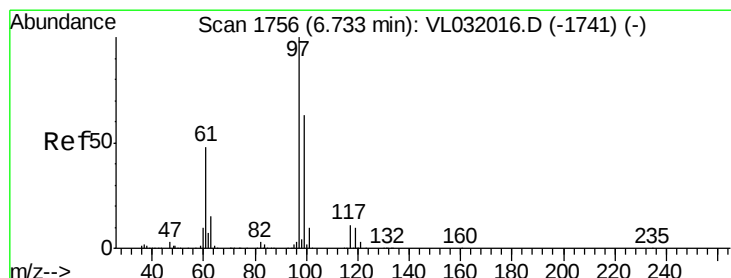
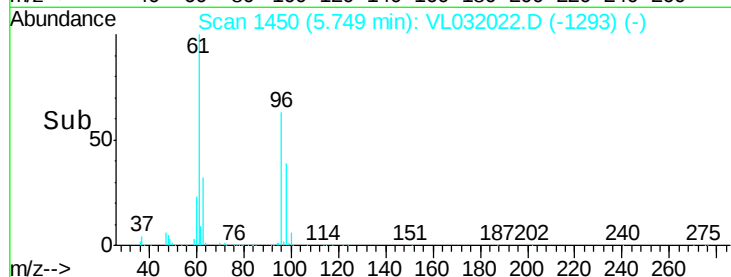
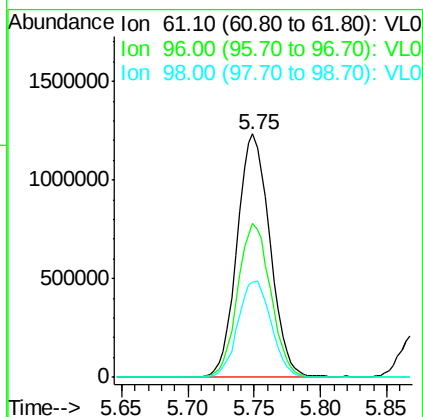
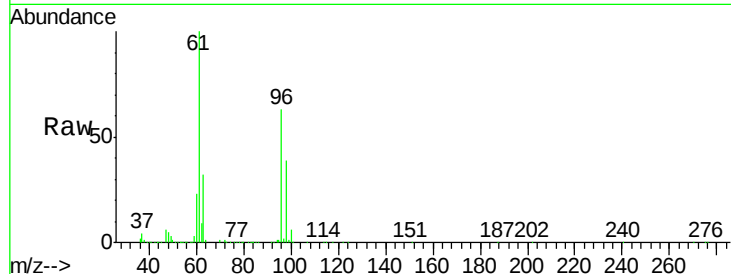




#31
 cis-1,2-Dichloroethene
 Concen: 14.45 ppbv
 RT: 5.75 min Scan# 1450
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

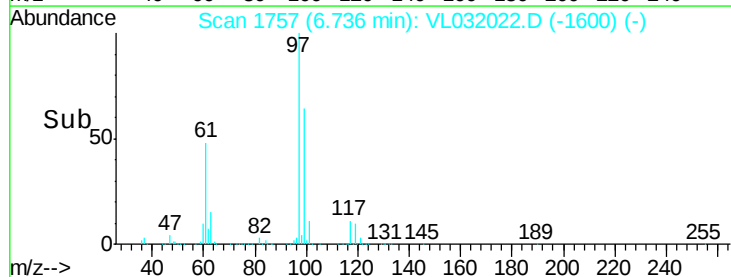
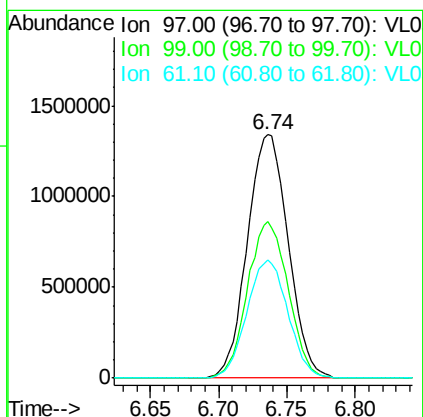
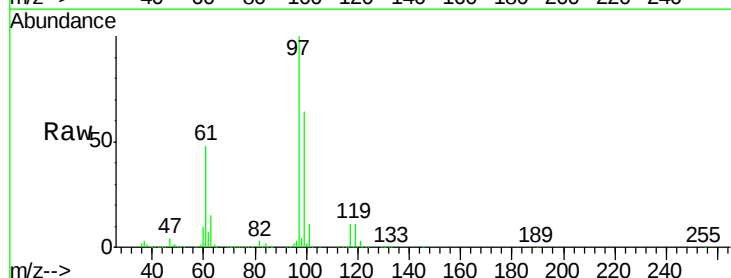
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

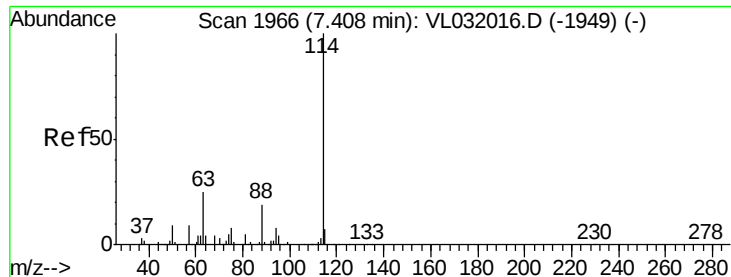
Tgt Ion: 61 Resp: 2130535
 Ion Ratio Lower Upper
 61 100
 96 63.3 49.0 73.6
 98 39.0 31.2 46.8



#32
 1,1,1-Trichloroethane
 Concen: 11.97 ppbv
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion: 97 Resp: 2788634
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.5 77.3
 61 48.8 39.4 59.2

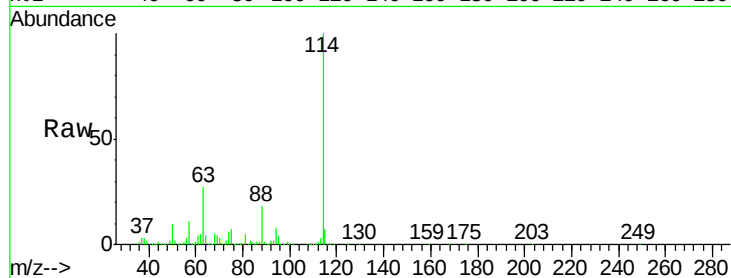




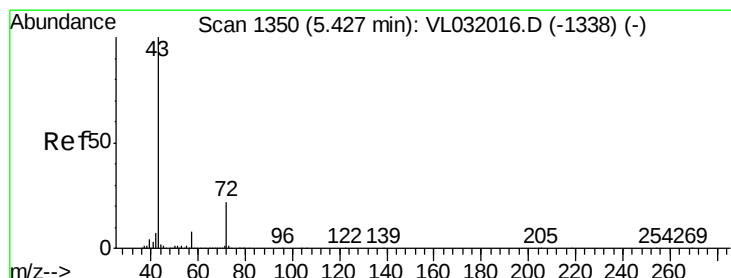
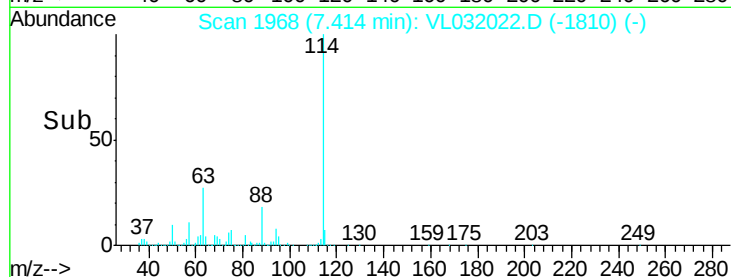
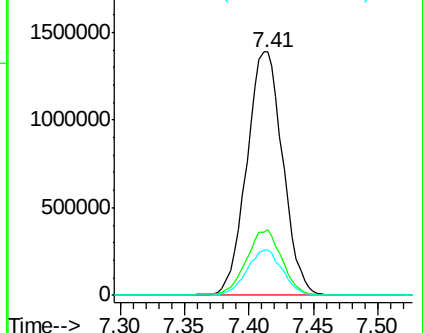
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.41 min Scan# 1968
 Delta R.T. 0.01 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:114 Resp: 2704213
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.1 31.7
 88 18.3 14.8 22.2

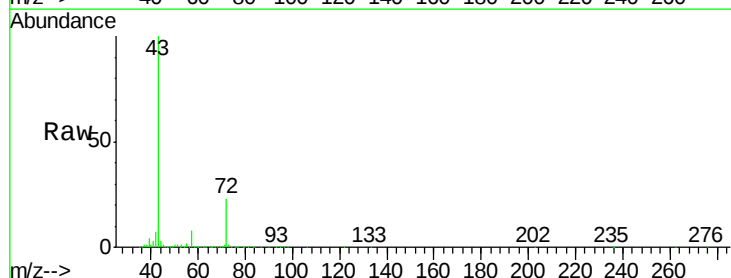


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

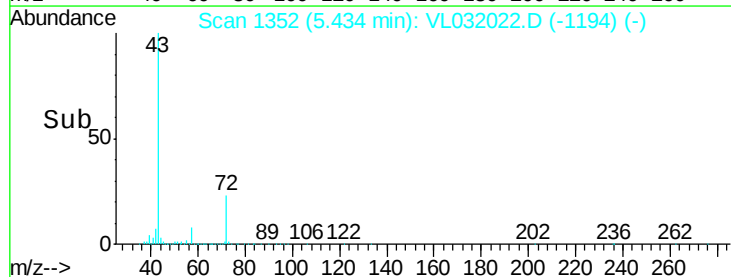
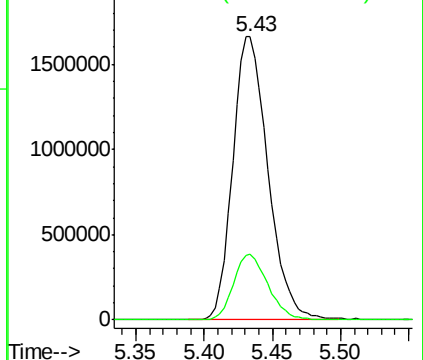


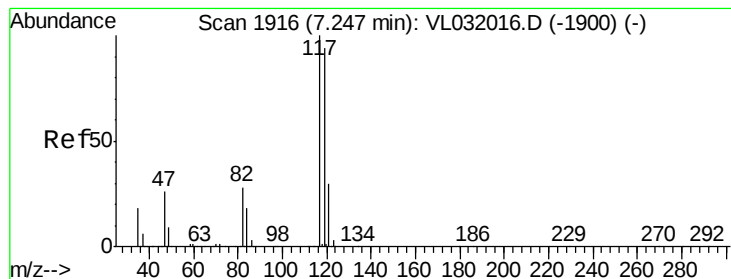
#34
 2-Butanone
 Concen: 13.29 ppbv
 RT: 5.43 min Scan# 1352
 Delta R.T. 0.01 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion: 43 Resp: 2971063
 Ion Ratio Lower Upper
 43 100
 72 23.0 18.6 27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 13.59 ppbv

RT: 7.25 min Scan# 1918

Delta R.T. 0.01 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

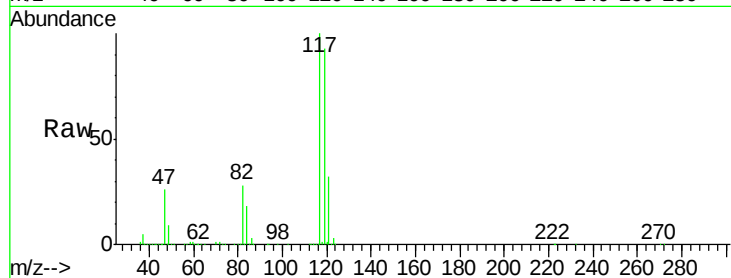
Tgt Ion:117 Resp: 2944849

Ion Ratio Lower Upper

117 100

119 93.3 75.3 112.9

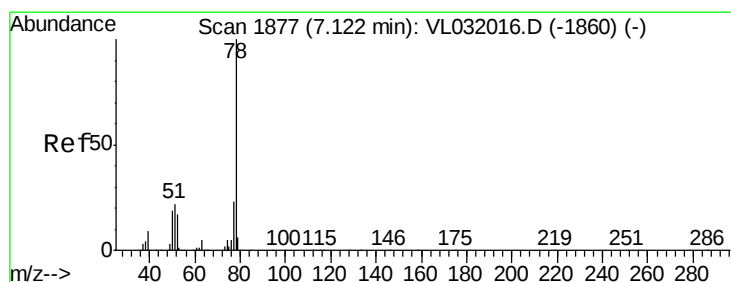
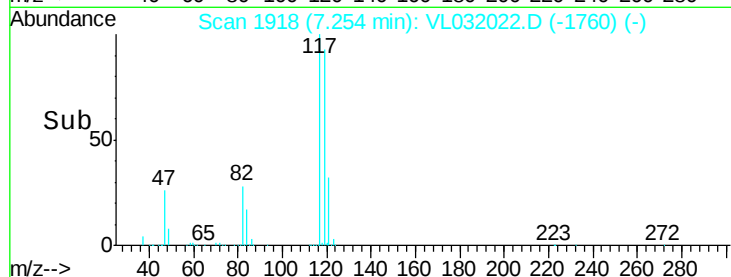
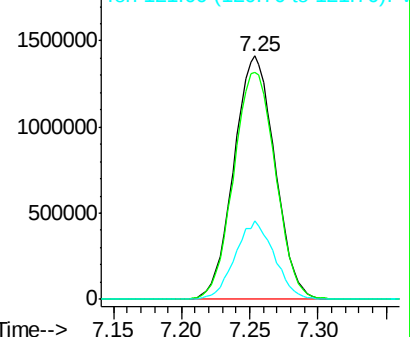
121 32.2 24.1 36.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 13.69 ppbv

RT: 7.13 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

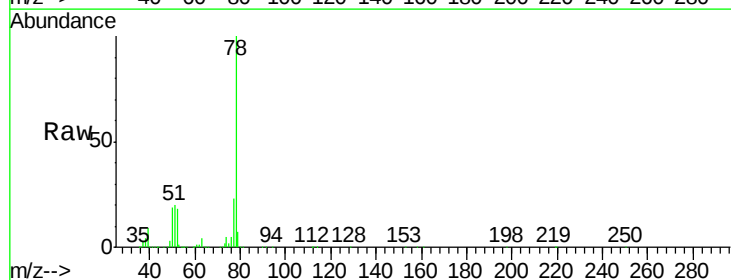
Tgt Ion: 78 Resp: 3478186

Ion Ratio Lower Upper

78 100

77 22.5 18.1 27.1

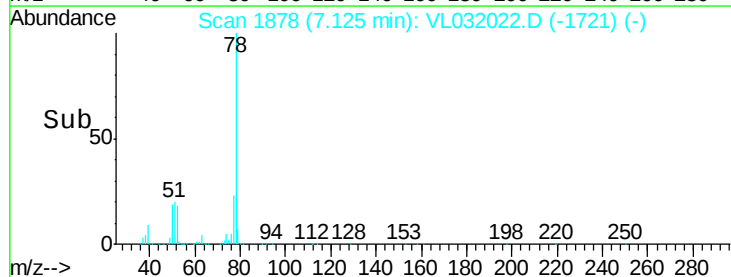
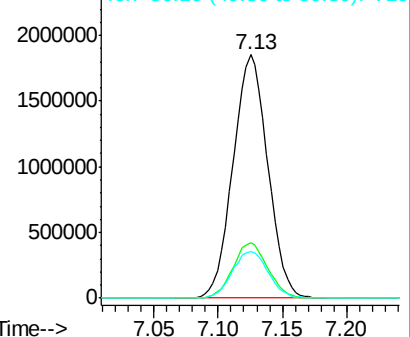
50 18.8 14.9 22.3

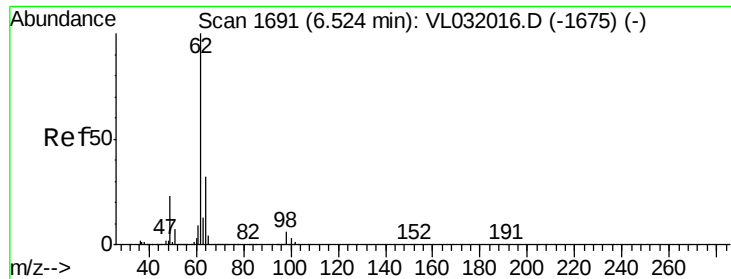


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

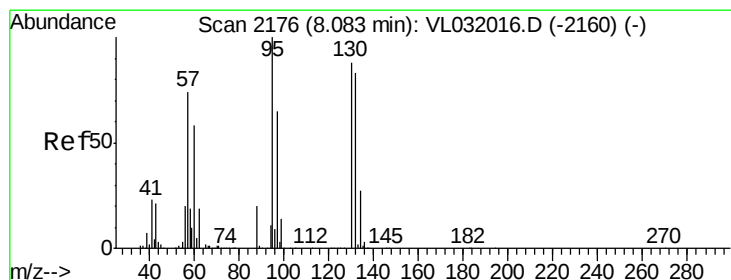
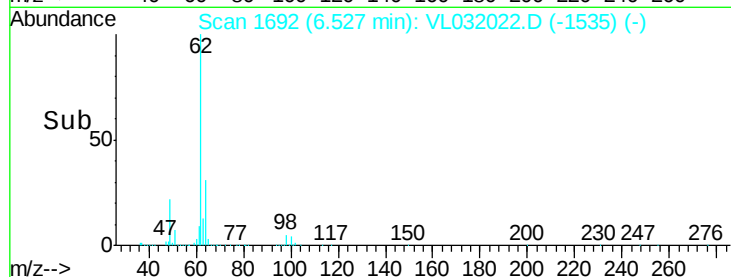
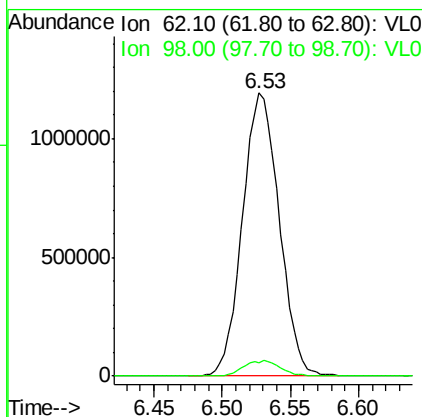
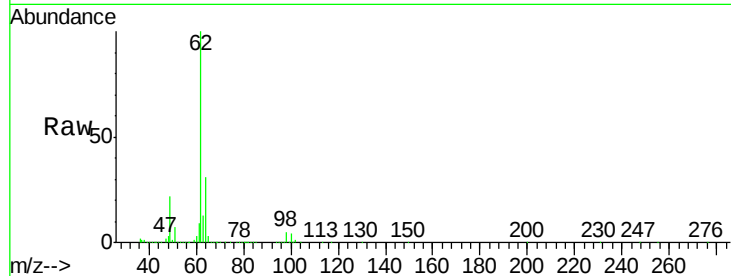




#37
 1,2-Dichloroethane
 Concen: 12.43 ppbv
 RT: 6.53 min Scan# 1692
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

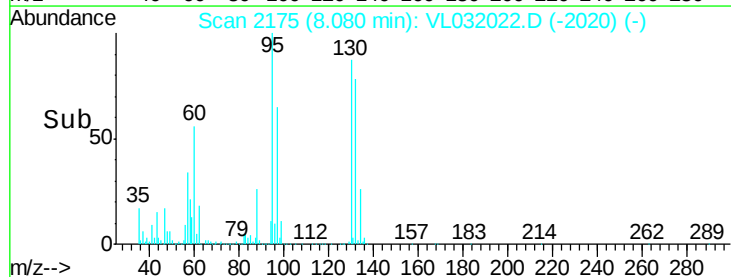
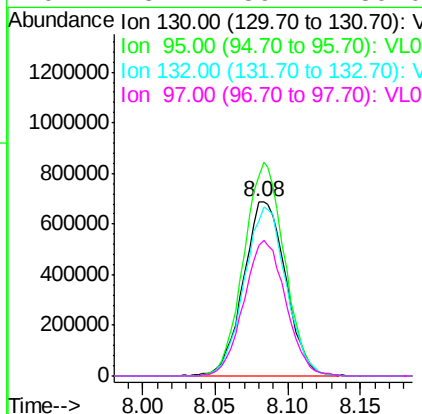
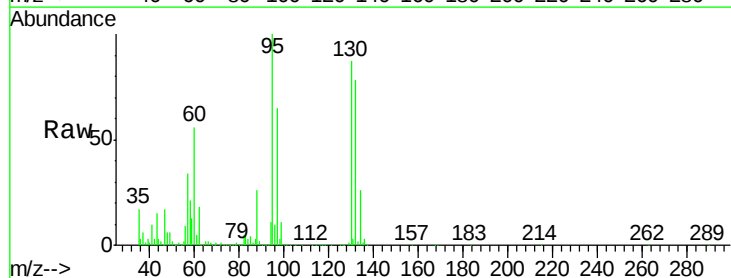
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

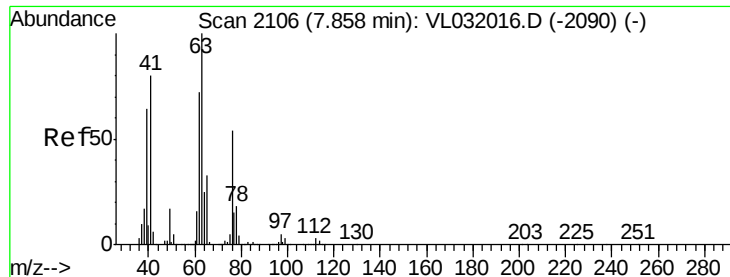
Tgt Ion: 62 Resp: 2232767
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.2 6.4



#38
 Trichloroethene
 Concen: 14.29 ppbv
 RT: 8.08 min Scan# 2175
 Delta R.T. -0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion: 130 Resp: 1388199
 Ion Ratio Lower Upper
 130 100
 95 115.2 90.7 136.1
 132 89.2 75.6 113.4
 97 75.1 59.4 89.0





#39

1,2-Dichloropropane

Concen: 14.06 ppbv

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

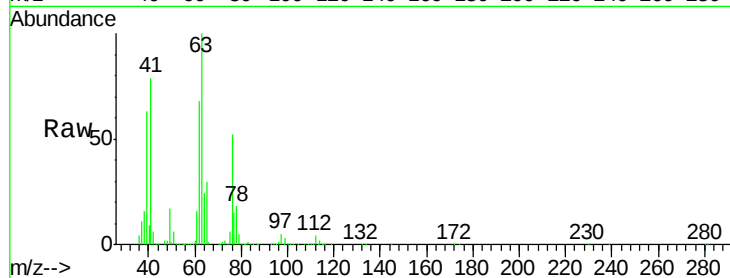
Tgt Ion: 63 Resp: 1249530

Ion Ratio Lower Upper

63 100

41 78.6 64.0 96.0

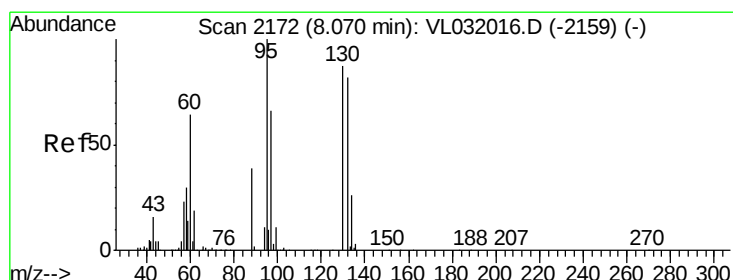
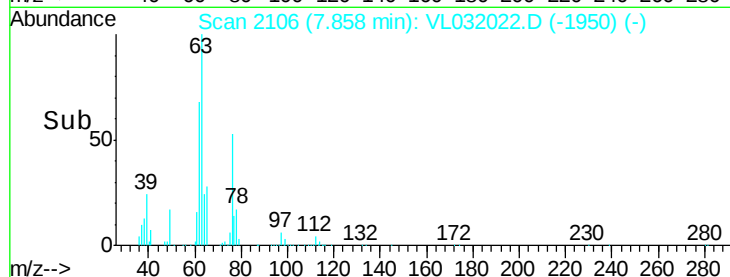
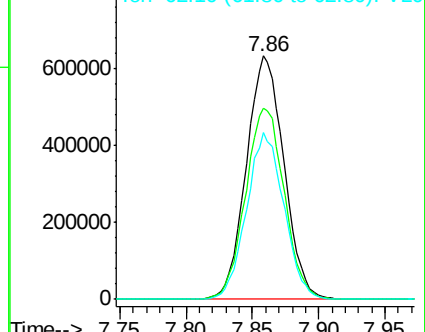
62 68.3 57.6 86.4



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: 13.59 ppbv

RT: 8.07 min Scan# 2172

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Tgt Ion: 88 Resp: 541645

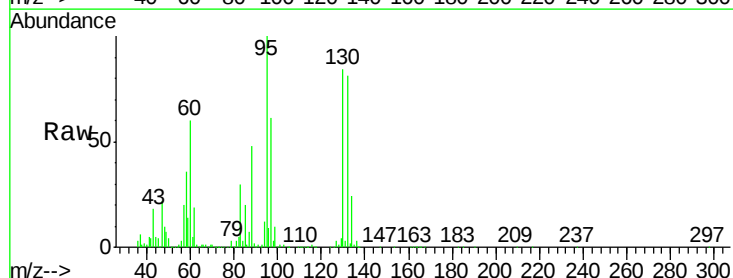
Ion Ratio Lower Upper

88 100

58 123.1 100.5 150.7

43 241.9 193.8 290.6

57 1061.0 853.9 1280.9

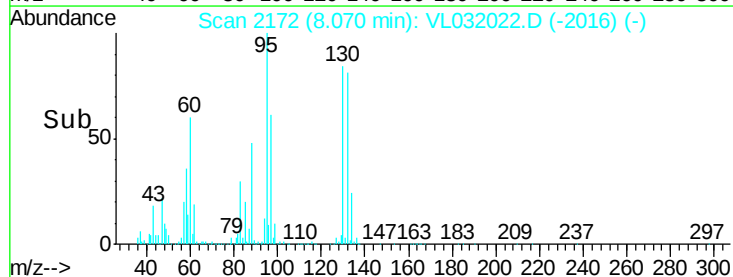
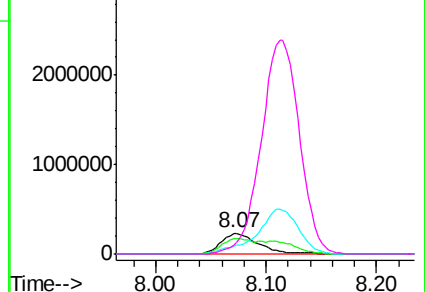


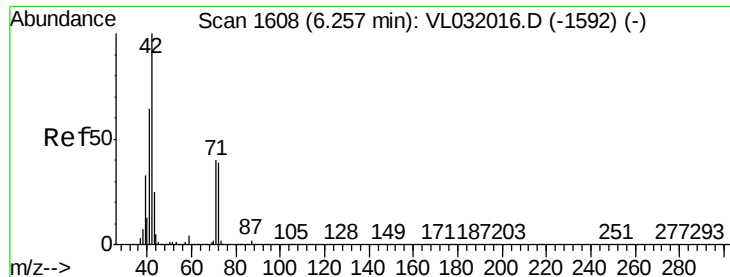
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 15.75 ppbv

RT: 6.26 min Scan# 1608

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

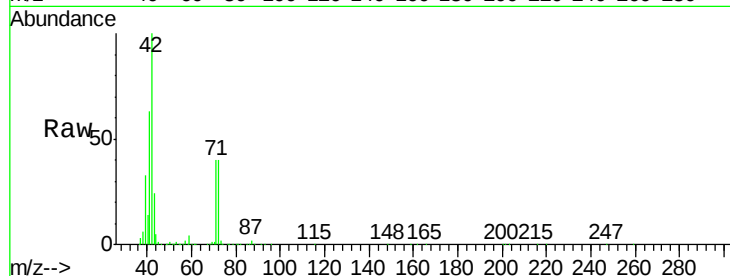
Tgt Ion: 42 Resp: 1519545

Ion Ratio Lower Upper

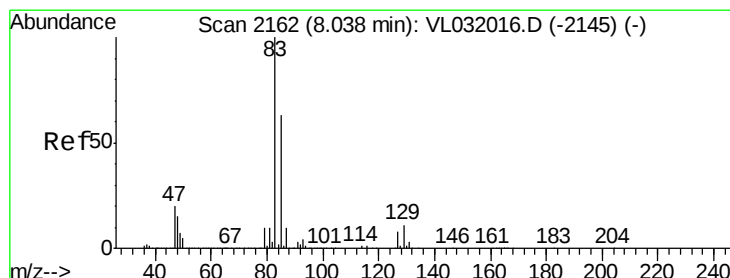
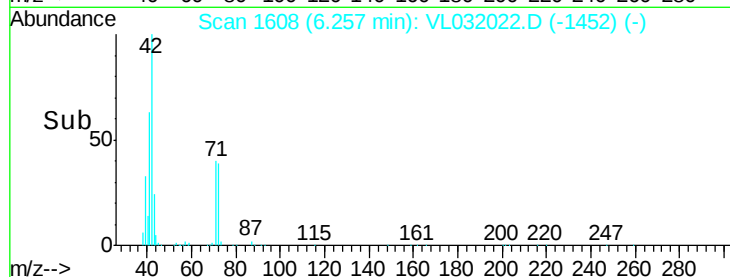
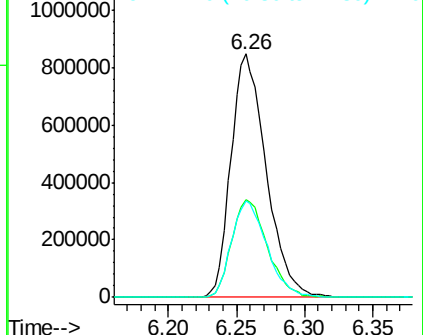
42 100

72 40.8 32.3 48.5

71 39.9 32.3 48.5



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 14.44 ppbv

RT: 8.04 min Scan# 2163

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

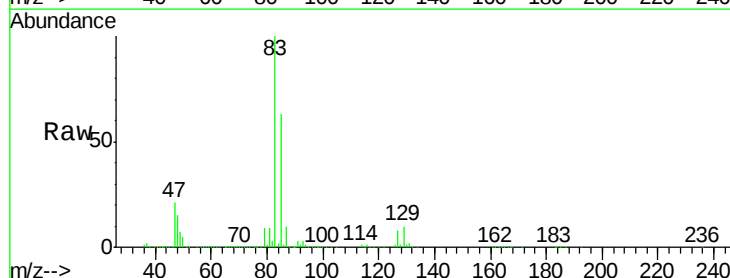
Tgt Ion: 83 Resp: 2975085

Ion Ratio Lower Upper

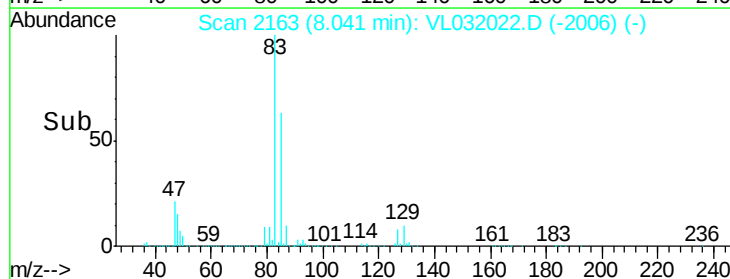
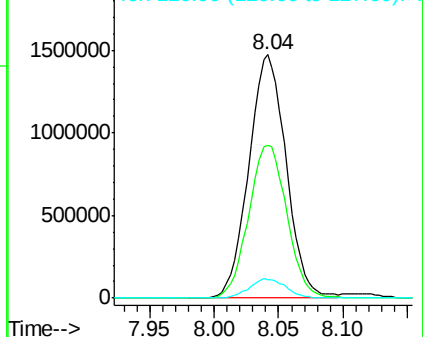
83 100

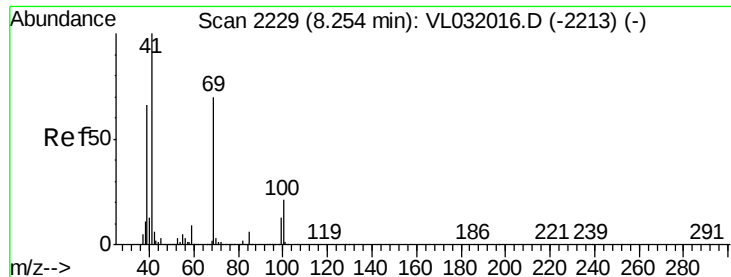
85 62.7 50.3 75.5

127 7.6 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

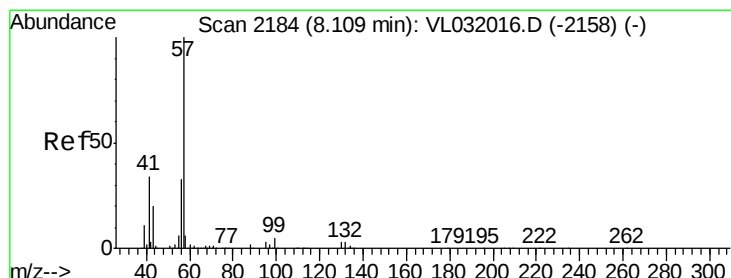
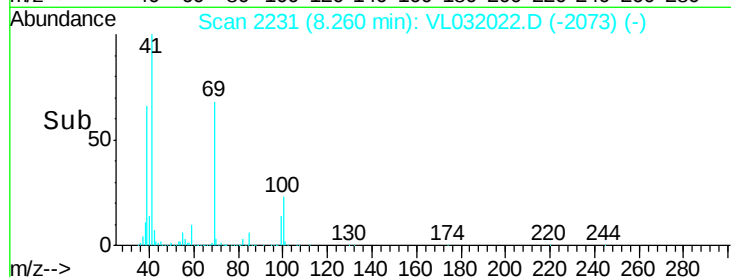
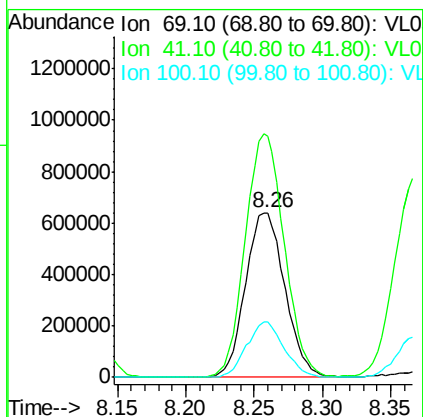
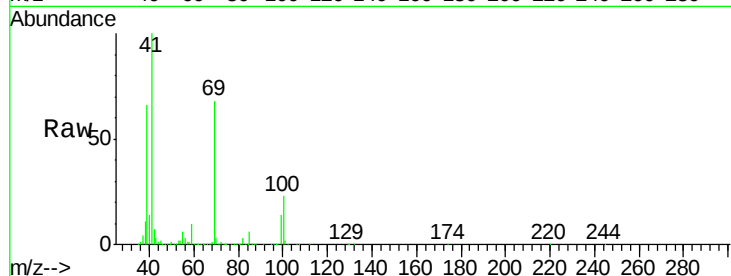




#43
Methyl Methacrylate
Concen: 14.78 ppbv
RT: 8.26 min Scan# 2231
Delta R.T. 0.01 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

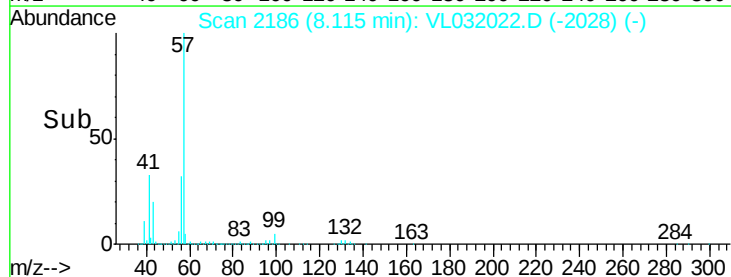
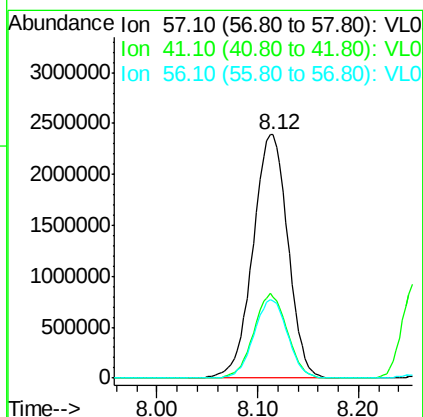
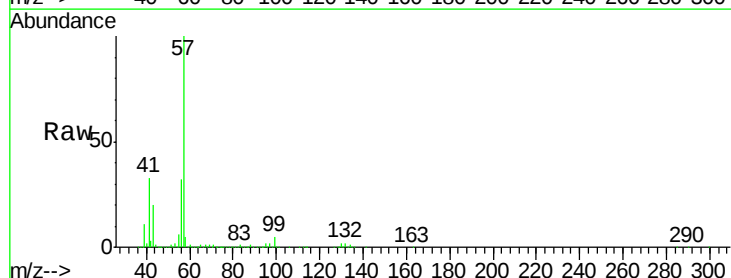
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

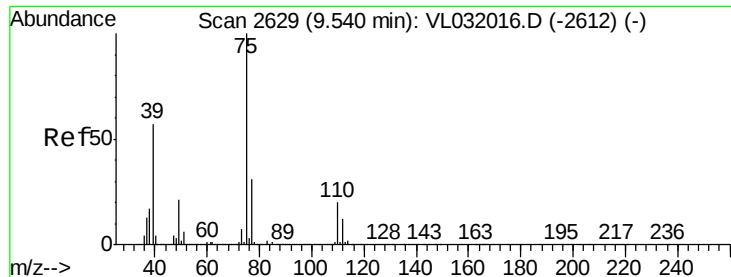
Tgt Ion: 69 Resp: 1281253
Ion Ratio Lower Upper
69 100
41 146.5 115.5 173.3
100 32.2 25.4 38.0



#44
2,2,4-Trimethylpentane
Concen: 13.89 ppbv
RT: 8.12 min Scan# 2186
Delta R.T. 0.01 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

Tgt Ion: 57 Resp: 5740258
Ion Ratio Lower Upper
57 100
41 33.1 26.6 40.0
56 31.1 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 16.80 ppbv

RT: 9.54 min Scan# 2630

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

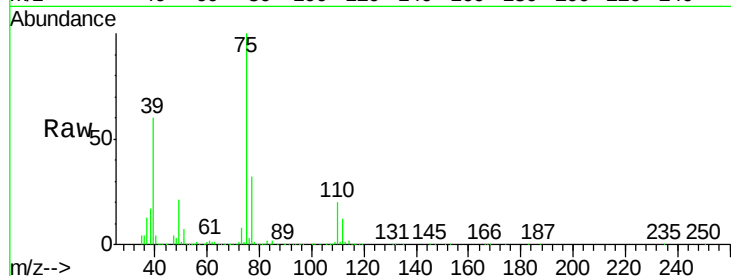
VSTDIC015

Tgt Ion: 75 Resp: 1934766

Ion Ratio Lower Upper

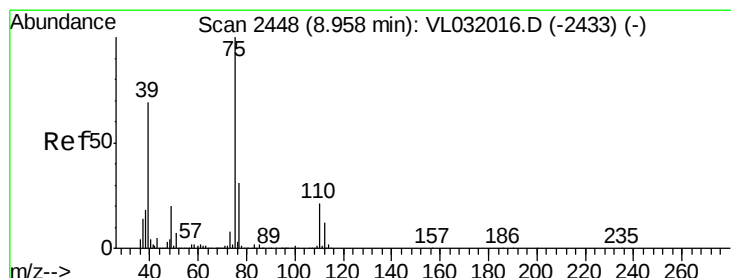
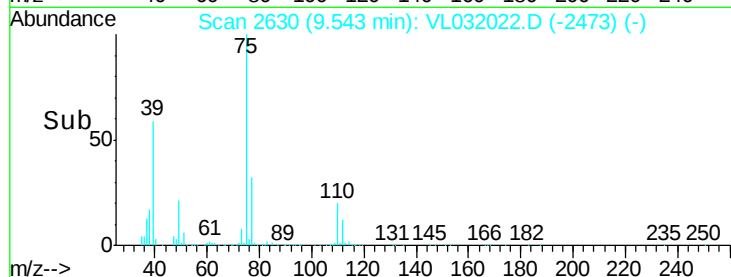
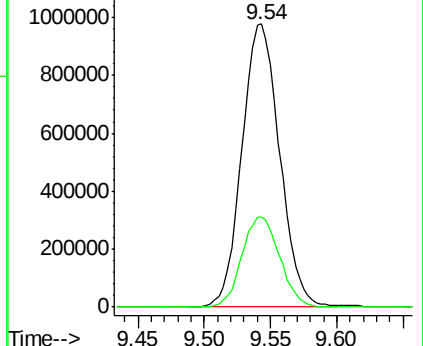
75 100

77 31.8 25.0 37.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 16.09 ppbv

RT: 8.96 min Scan# 2449

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

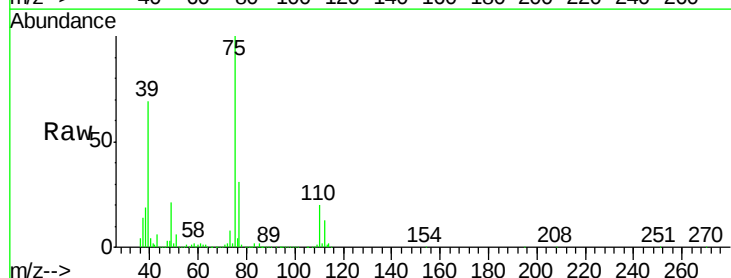
Tgt Ion: 75 Resp: 2284464

Ion Ratio Lower Upper

75 100

39 69.2 55.0 82.6

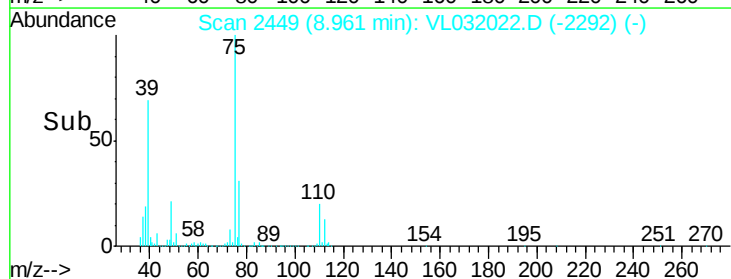
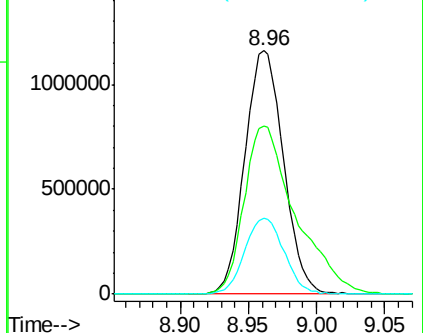
77 31.2 25.0 37.6

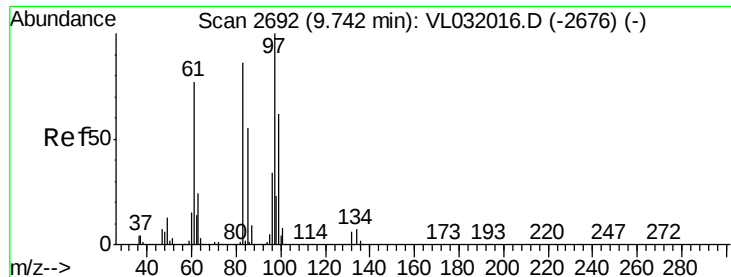


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



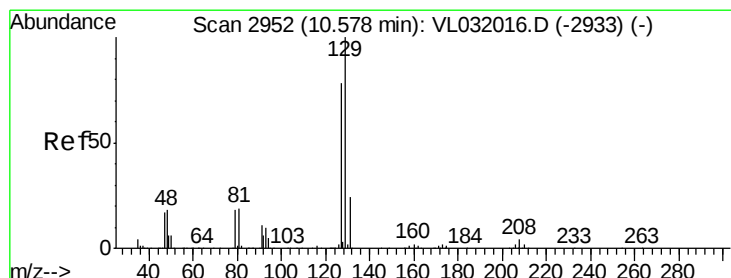
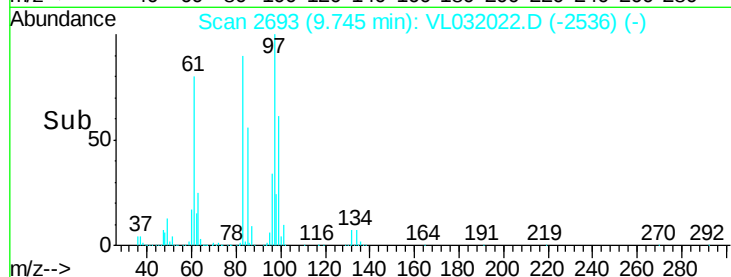
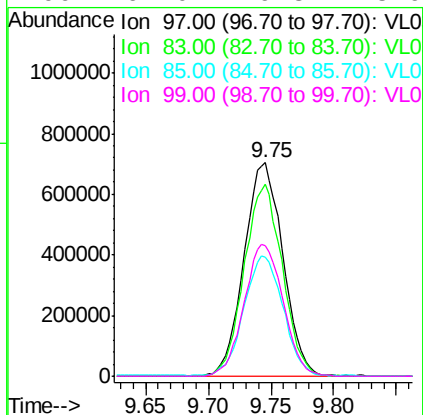
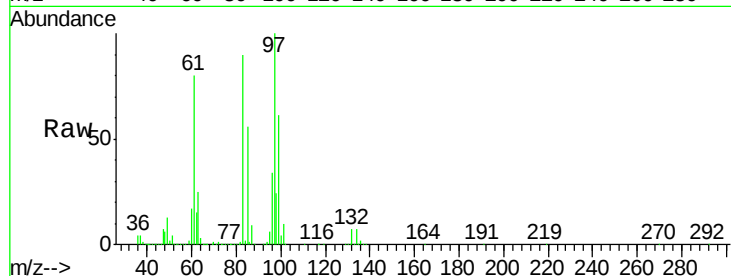


#47
 1,1,2-Trichloroethane
 Concen: 14.41 ppbv
 RT: 9.75 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 97 Resp: 1518160

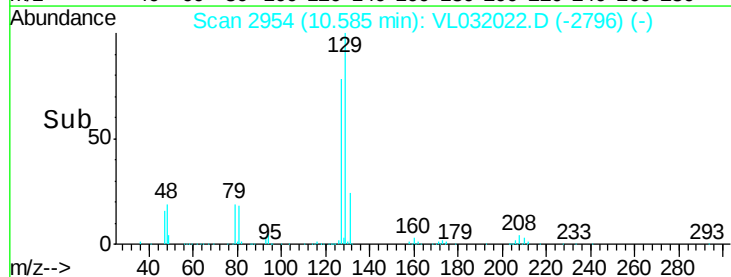
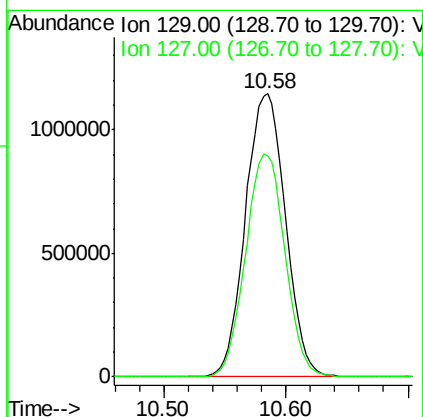
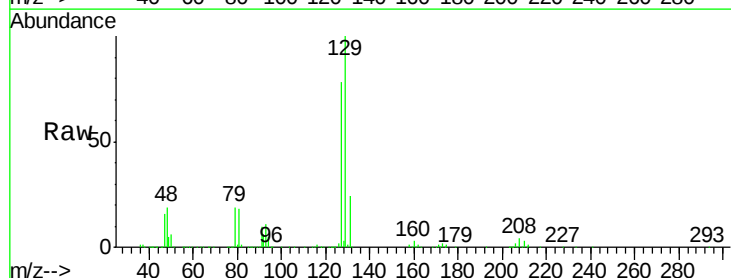
Ion	Ratio	Lower	Upper
97	100		
83	89.9	69.1	103.7
85	55.9	44.5	66.7
99	61.0	49.3	73.9

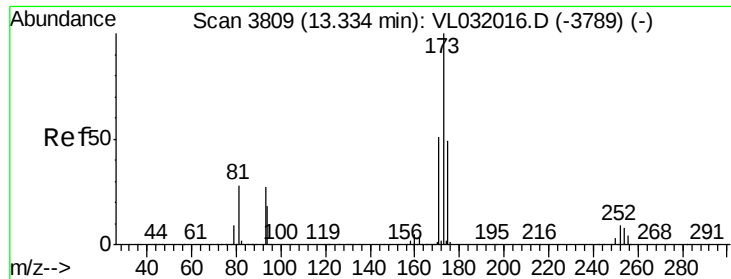


#48
 Dibromochloromethane
 Concen: 15.27 ppbv
 RT: 10.58 min Scan# 2954
 Delta R.T. 0.01 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion: 129 Resp: 2597431

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.3	117.9





#49

Bromoform

Concen: 15.92 ppbv

RT: 13.34 min Scan# 3810

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

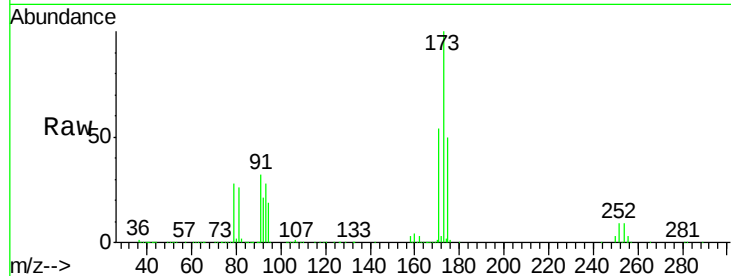
Tgt Ion:173 Resp: 2123573

Ion Ratio Lower Upper

173 100

175 49.1 39.8 59.8

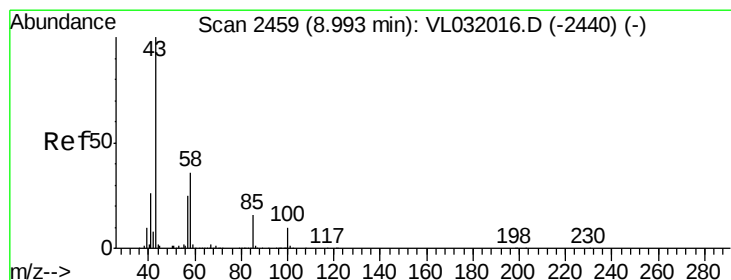
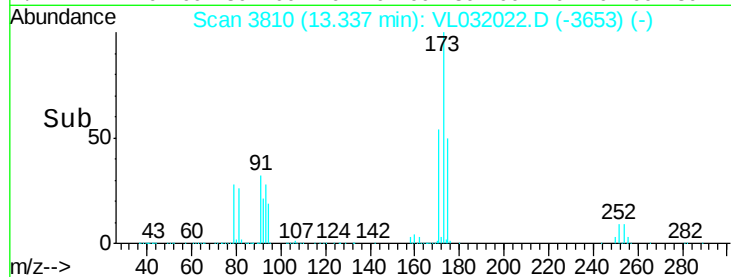
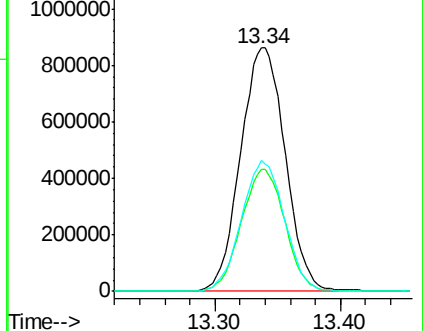
171 52.1 41.7 62.5



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: 14.72 ppbv

RT: 8.99 min Scan# 2459

Delta R.T. 0.00 min

Lab File: VL032022.D

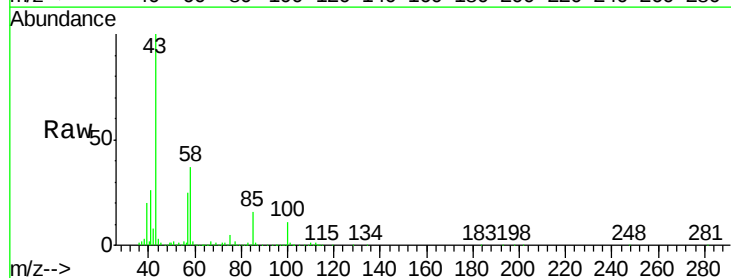
Acq: 31 May 2018 20:04

Tgt Ion: 43 Resp: 3106253

Ion Ratio Lower Upper

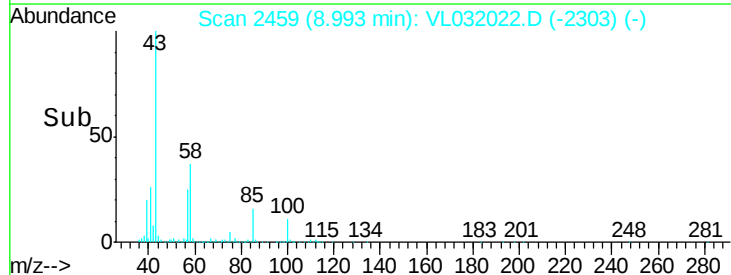
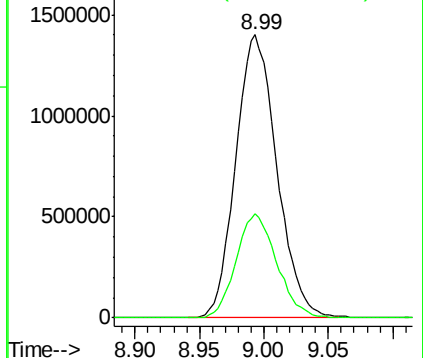
43 100

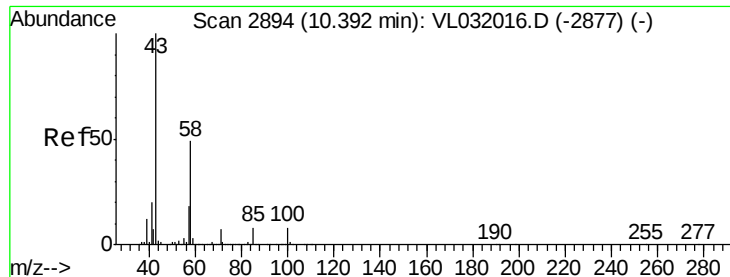
58 36.4 29.1 43.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 15.04 ppbv

RT: 10.39 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

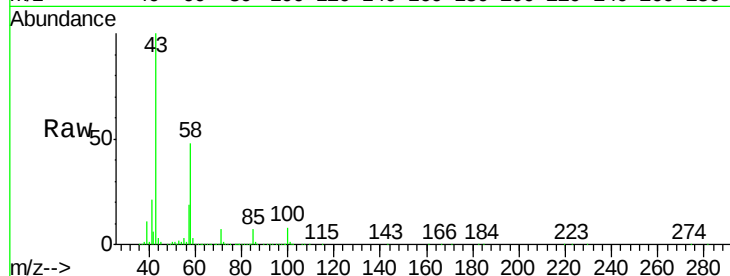
Tgt Ion: 43 Resp: 2892385

Ion Ratio Lower Upper

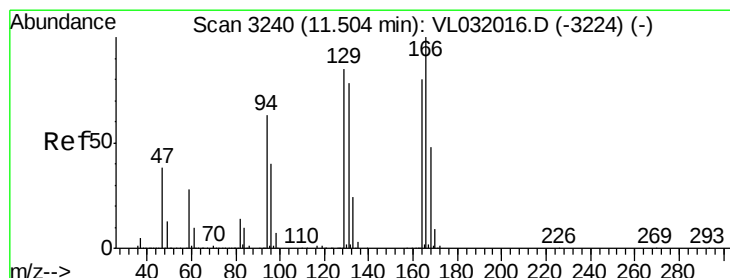
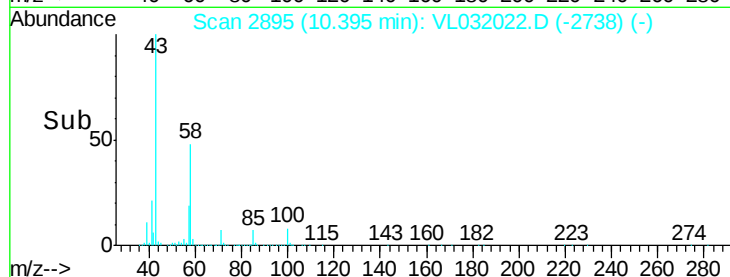
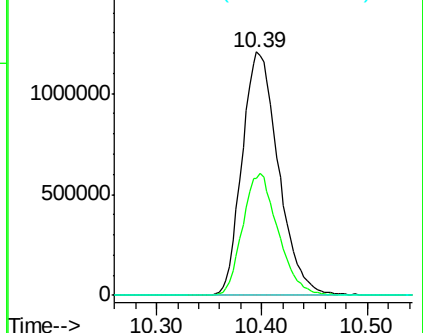
43 100

58 49.0 39.0 58.6

98 0.2 0.4 0.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 14.55 ppbv

RT: 11.50 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Tgt Ion: 164 Resp: 1376619

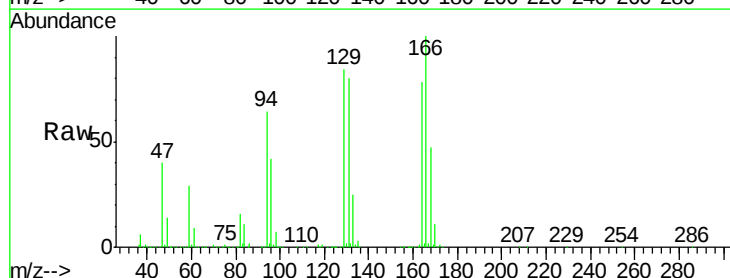
Ion Ratio Lower Upper

164 100

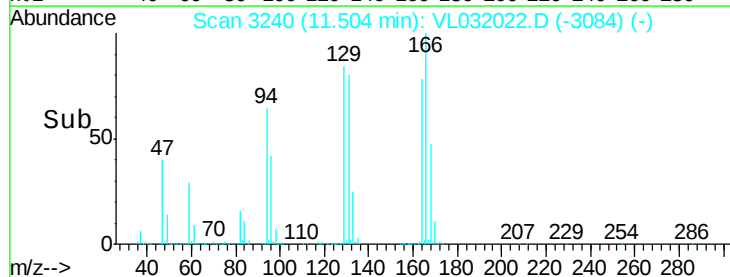
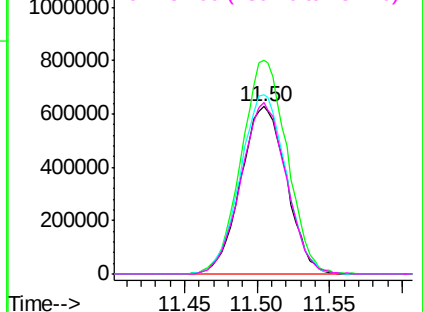
166 127.6 100.2 150.2

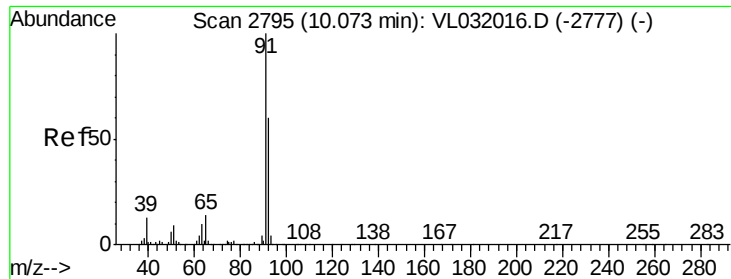
129 107.2 85.4 128.0

131 102.4 78.0 117.0



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 15.31 ppbv

RT: 10.08 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

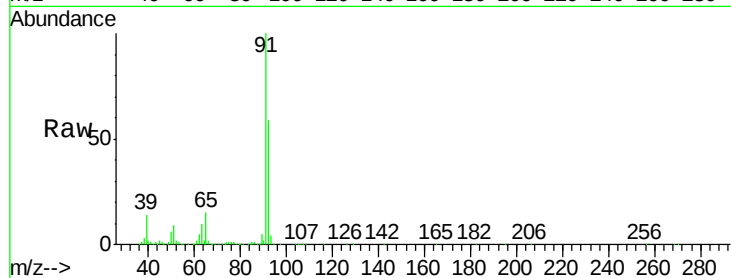
VSTDIC015

Tgt Ion: 91 Resp: 4218374

Ion Ratio Lower Upper

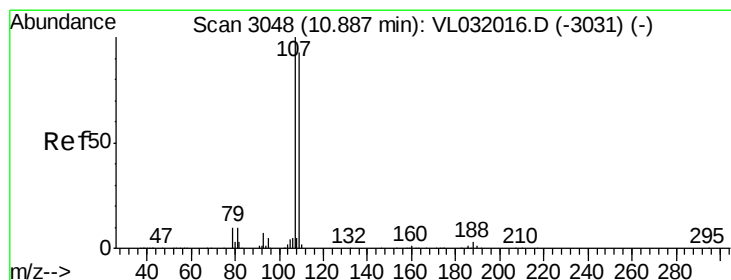
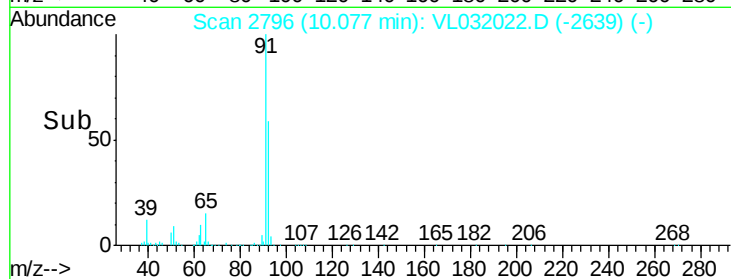
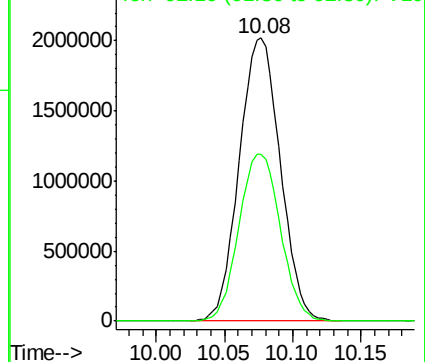
91 100

92 59.9 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 14.85 ppbv

RT: 10.89 min Scan# 3050

Delta R.T. 0.01 min

Lab File: VL032022.D

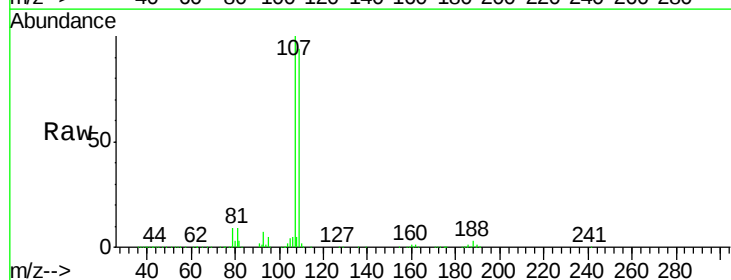
Acq: 31 May 2018 20:04

Tgt Ion: 107 Resp: 2329347

Ion Ratio Lower Upper

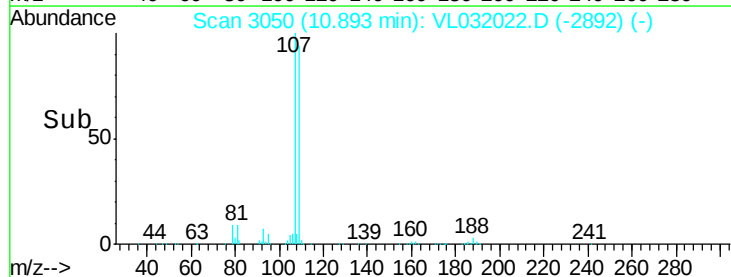
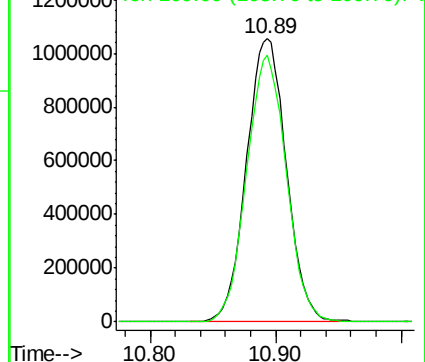
107 100

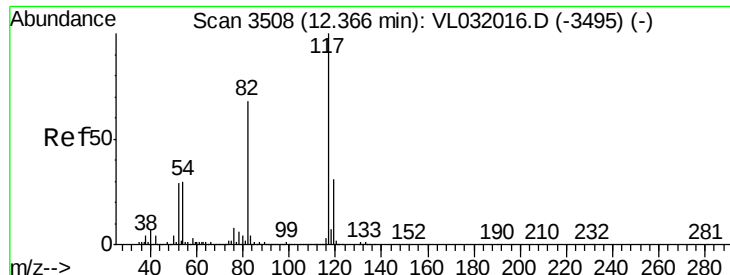
109 94.3 74.6 111.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

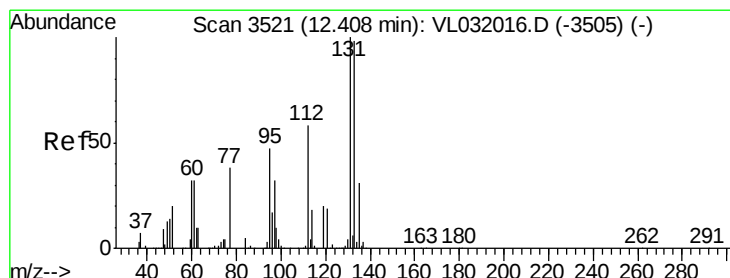
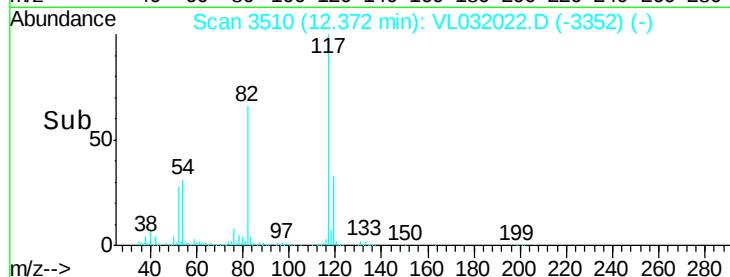
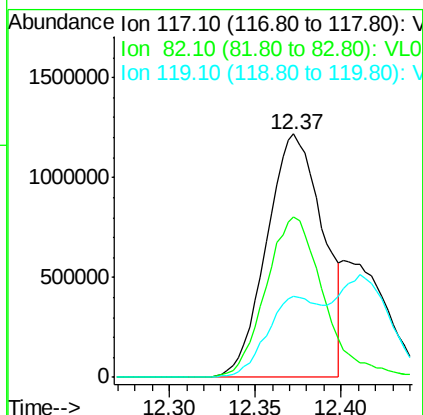
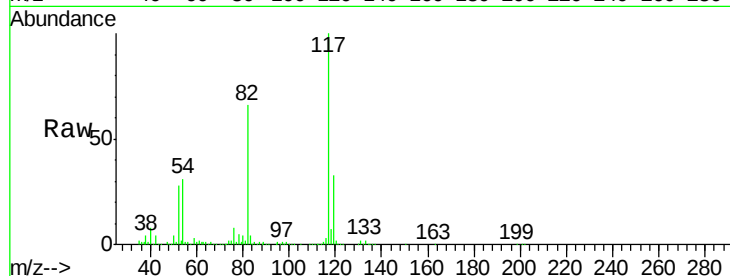




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.37 min Scan# 3510
Delta R.T. 0.01 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

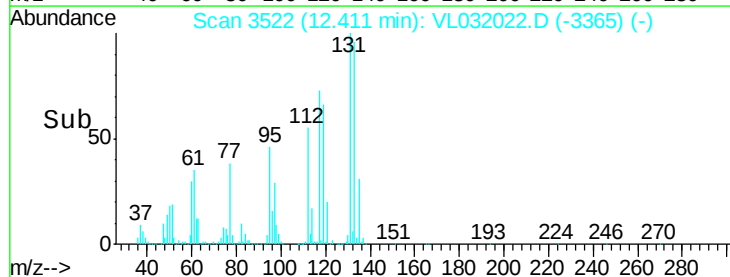
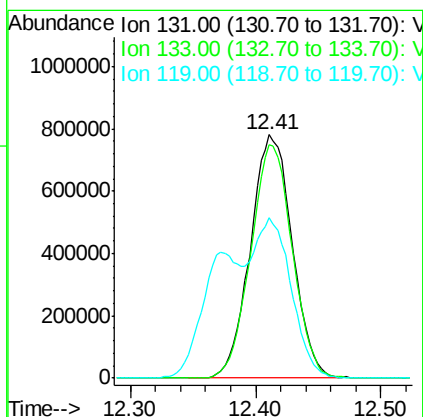
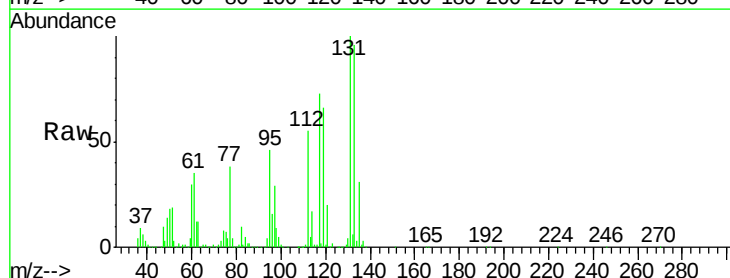
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

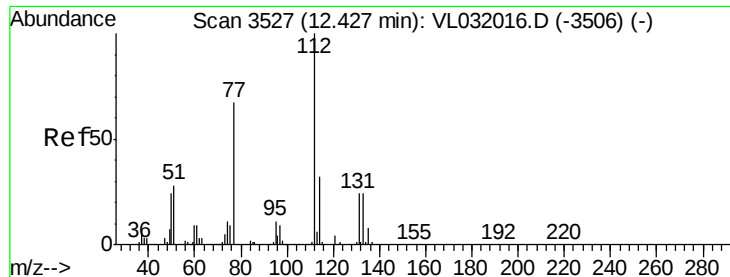
Tgt Ion:117 Resp: 2761104
Ion Ratio Lower Upper
117 100
82 68.2 52.7 79.1
119 0.0 25.5 38.3#



#56
1,1,1,2-Tetrachloroethane
Concen: 14.24 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. 0.00 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

Tgt Ion:131 Resp: 1811478
Ion Ratio Lower Upper
131 100
133 95.3 76.7 115.1
119 110.6 49.2 73.8#





#57

Chlorobenzene

Concen: 13.89 ppbv

RT: 12.44 min Scan# 3530

Delta R.T. 0.01 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

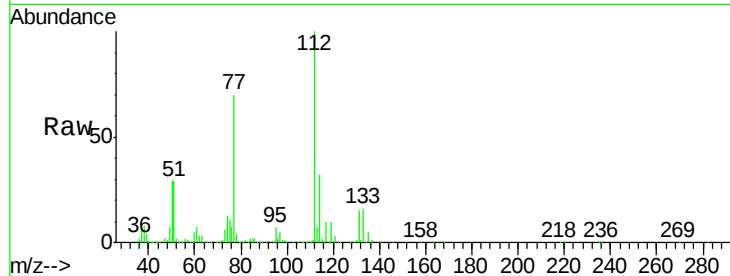
Tgt Ion: 112 Resp: 3356618

Ion Ratio Lower Upper

112 100

77 70.3 54.3 81.5

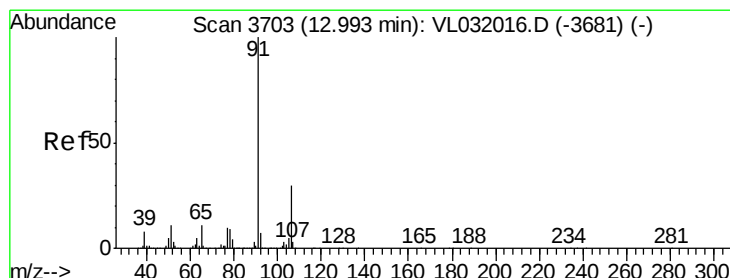
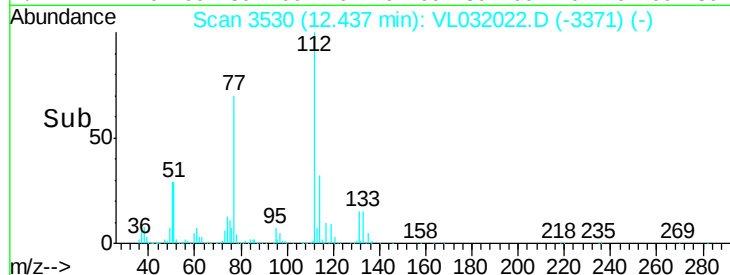
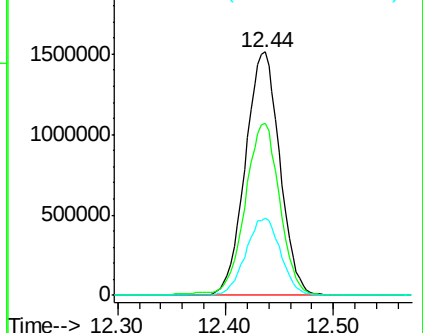
114 31.9 28.6 35.0



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: 15.03 ppbv

RT: 13.00 min Scan# 3704

Delta R.T. 0.00 min

Lab File: VL032022.D

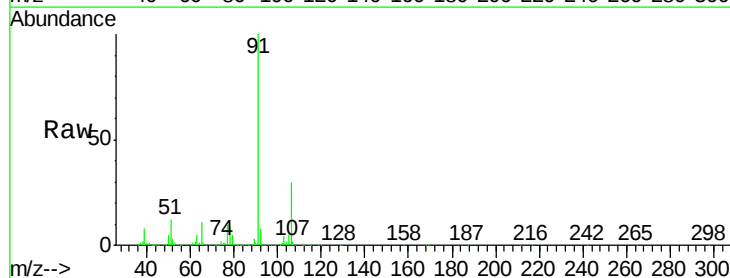
Acq: 31 May 2018 20:04

Tgt Ion: 91 Resp: 6013554

Ion Ratio Lower Upper

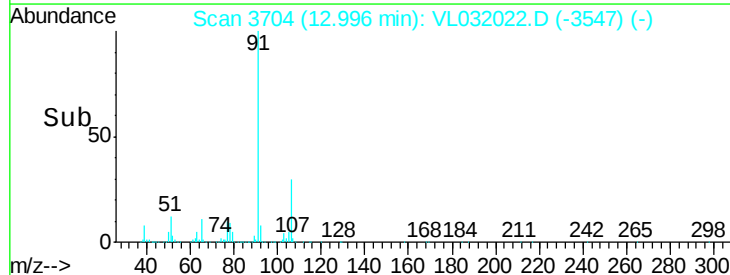
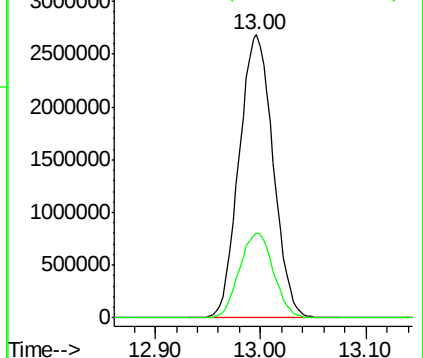
91 100

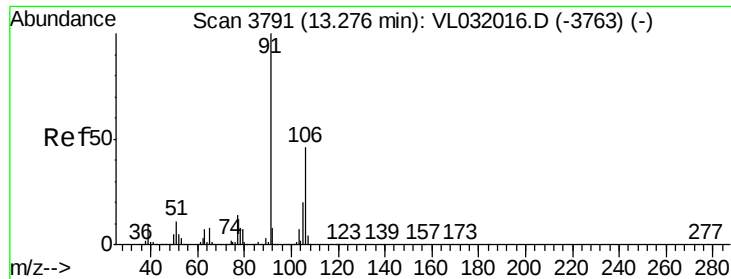
106 29.9 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

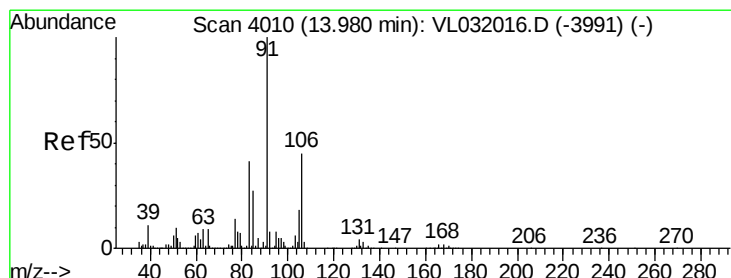
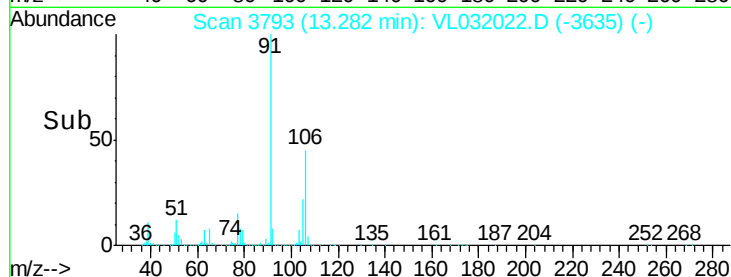
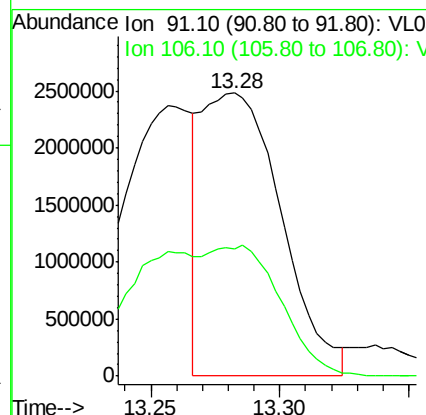
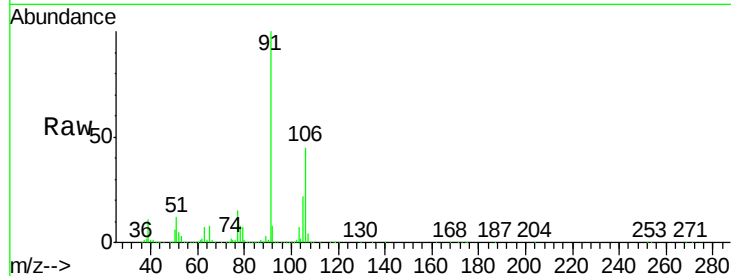




#59
m/p-Xylene
Concen: 15.43 ppbv
RT: 13.28 min Scan# 3793
Delta R.T. 0.01 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

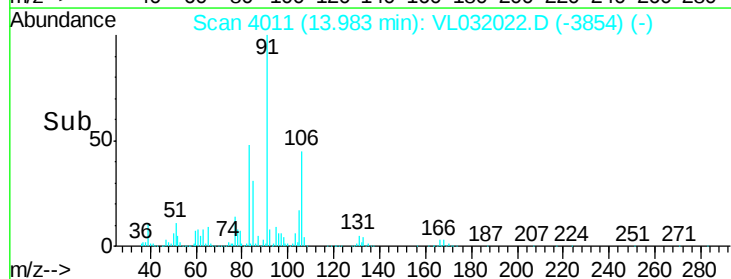
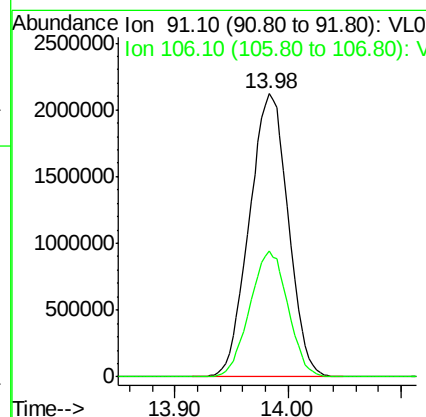
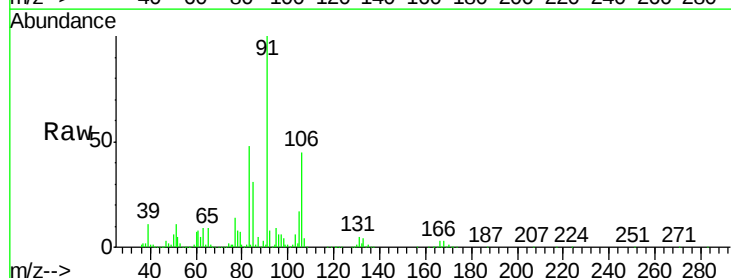
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

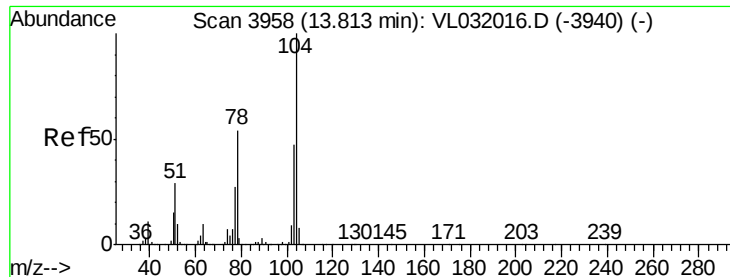
Tgt Ion: 91 Resp: 5276260
Ion Ratio Lower Upper
91 100
106 85.0 35.7 53.5#



#60
o-Xylene
Concen: 14.75 ppbv
RT: 13.98 min Scan# 4011
Delta R.T. 0.00 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

Tgt Ion: 91 Resp: 5061783
Ion Ratio Lower Upper
91 100
106 43.7 21.9 65.5





#61

Styrene

Concen: 17.39 ppbv

RT: 13.82 min Scan# 3959

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

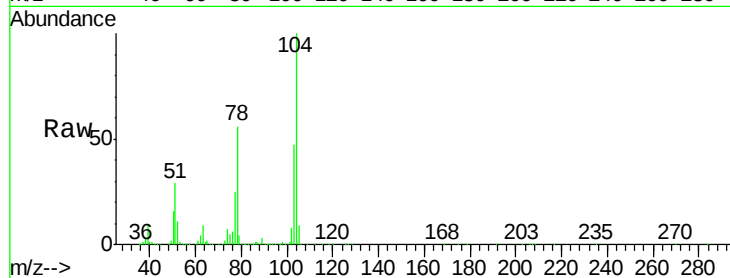
Tgt Ion:104 Resp: 1206364

Ion Ratio Lower Upper

104 100

78 54.6 43.0 64.4

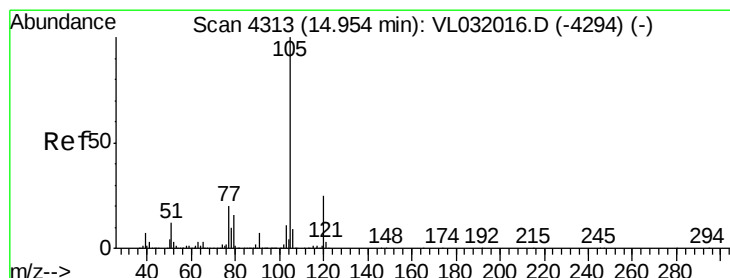
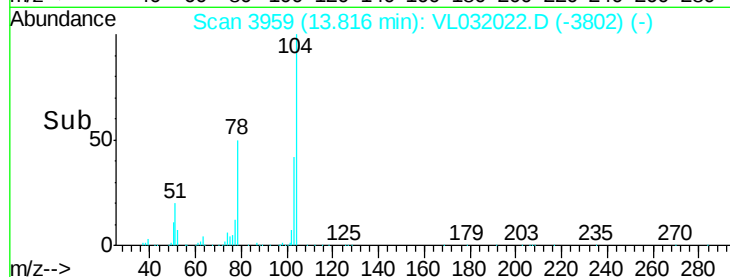
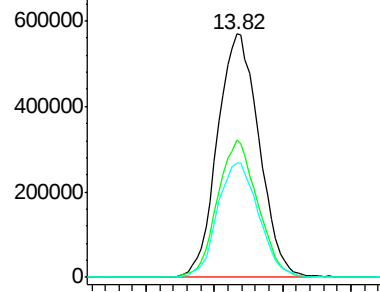
103 46.8 37.4 56.2



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: 14.71 ppbv

RT: 14.96 min Scan# 4314

Delta R.T. 0.00 min

Lab File: VL032022.D

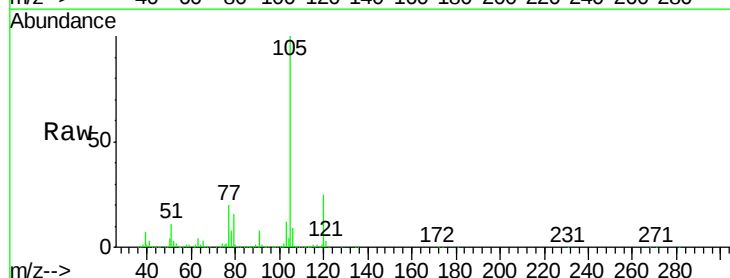
Acq: 31 May 2018 20:04

Tgt Ion:105 Resp: 6424283

Ion Ratio Lower Upper

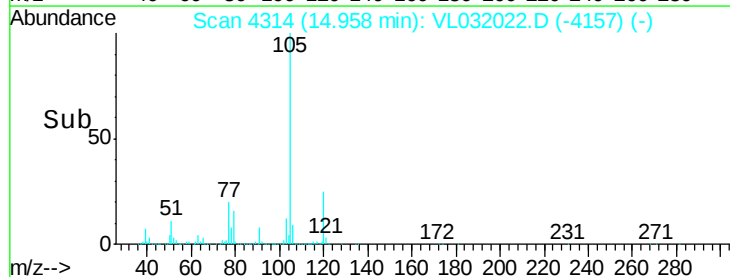
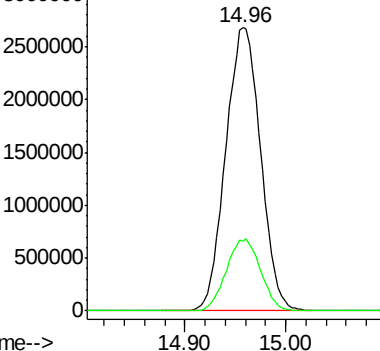
105 100

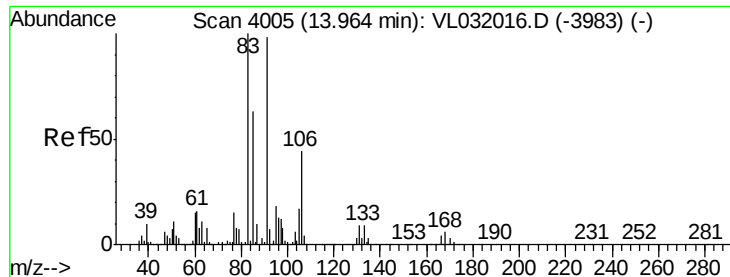
120 25.0 19.8 29.8



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: 14.12 ppbv

RT: 13.97 min Scan# 4008

Delta R.T. 0.01 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

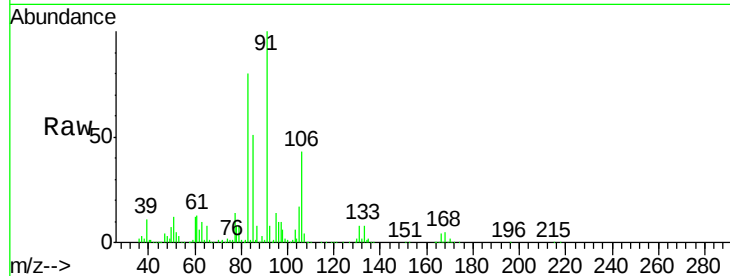
Tgt Ion: 83 Resp: 3427066

Ion Ratio Lower Upper

83 100

131 9.6 4.7 14.0

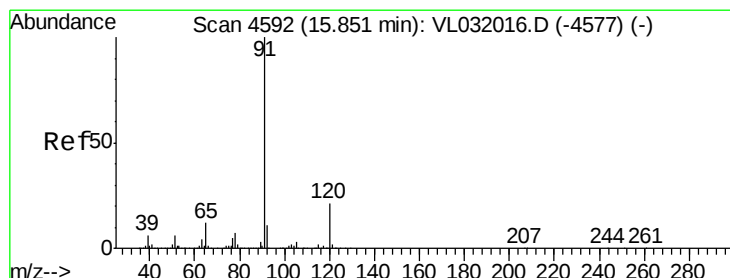
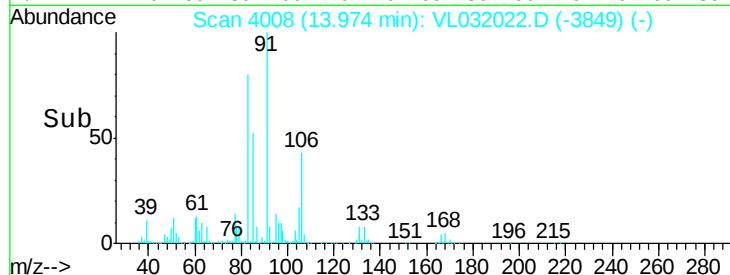
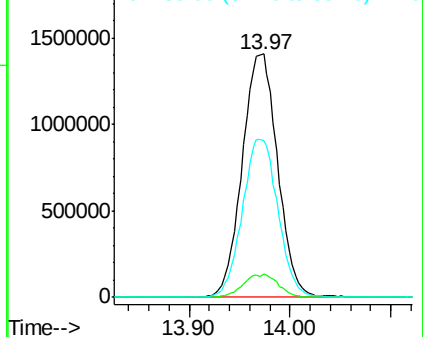
85 65.6 32.2 96.6



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: 15.02 ppbv

RT: 15.85 min Scan# 4592

Delta R.T. 0.00 min

Lab File: VL032022.D

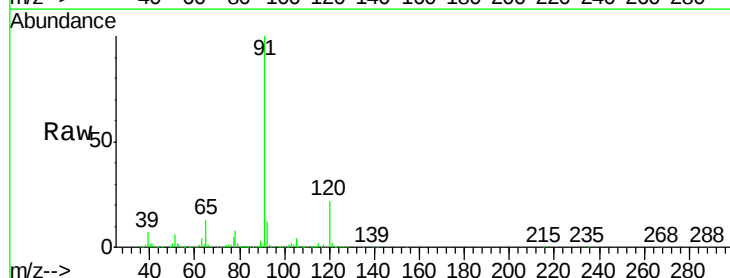
Acq: 31 May 2018 20:04

Tgt Ion: 120 Resp: 1649477

Ion Ratio Lower Upper

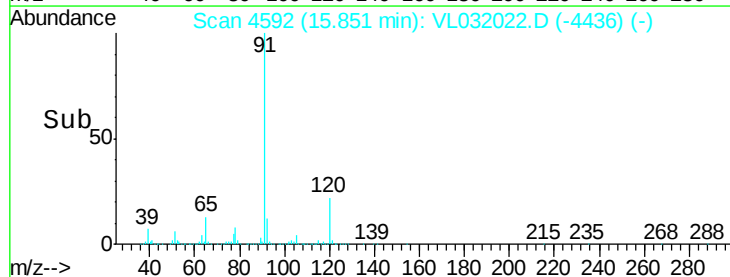
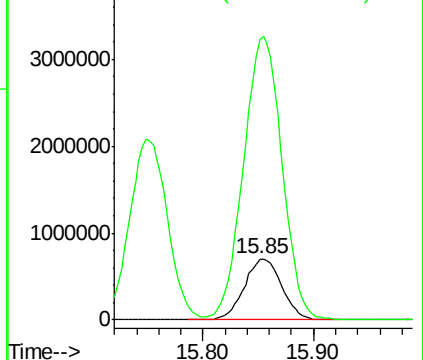
120 100

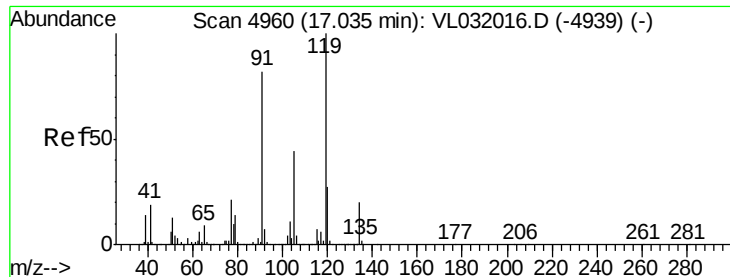
91 479.1 391.1 586.7



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

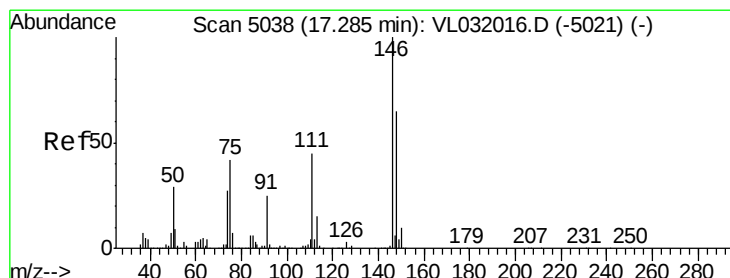
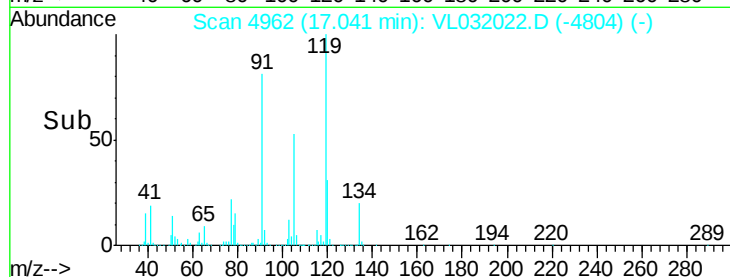
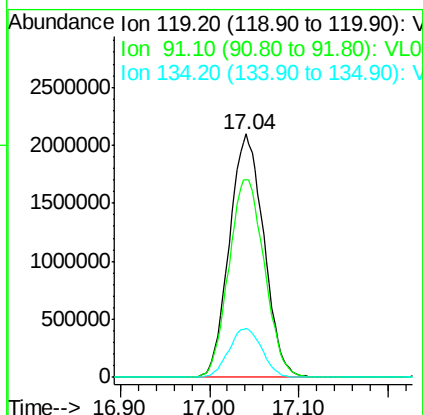
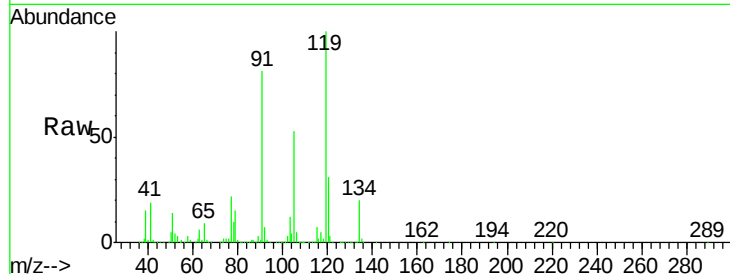




#65
 tert-Butylbenzene
 Concen: 14.38 ppbv
 RT: 17.04 min Scan# 4962
 Delta R.T. 0.01 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

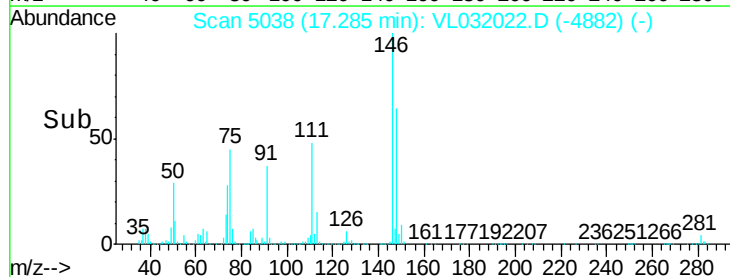
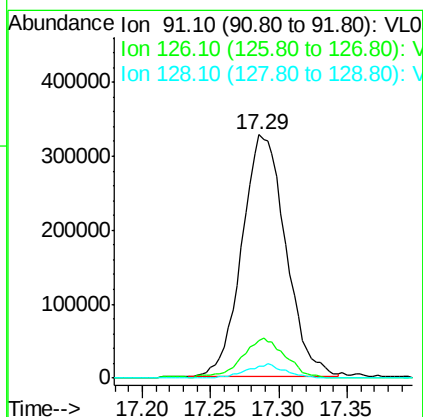
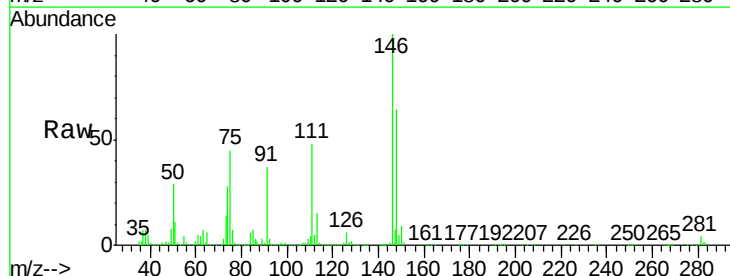
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

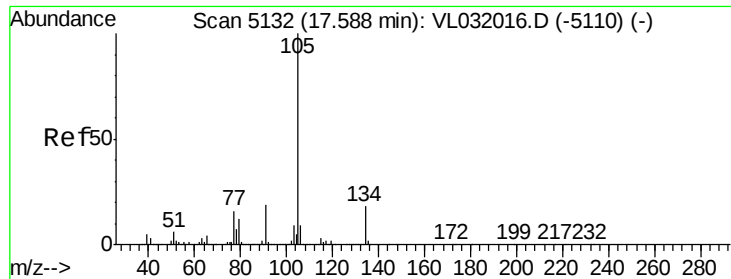
Tgt Ion: 119 Resp: 5589554
 Ion Ratio Lower Upper
 119 100
 91 84.3 68.2 102.4
 134 19.5 15.6 23.4



#66
 Benzyl Chloride
 Concen: 20.14 ppbv
 RT: 17.29 min Scan# 5038
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion: 91 Resp: 730059
 Ion Ratio Lower Upper
 91 100
 126 17.1 14.2 21.2
 128 5.2 4.5 6.7

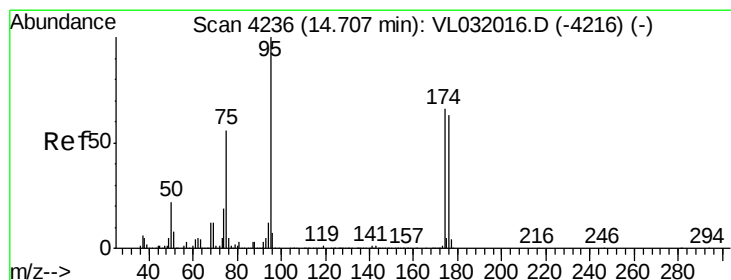
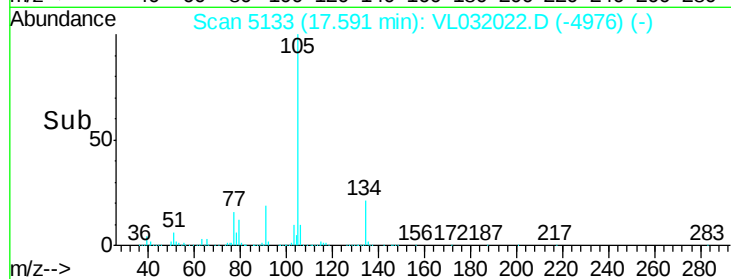
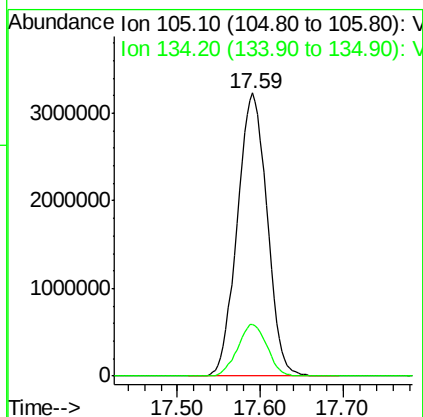
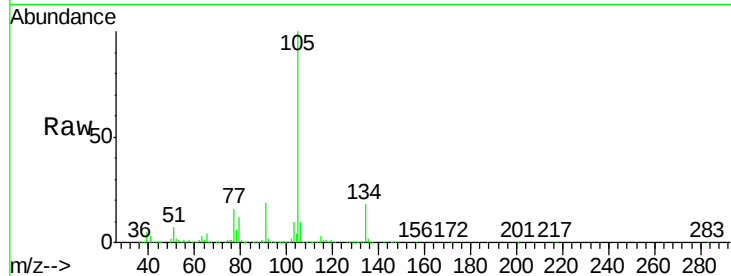




#67
 sec-Butylbenzene
 Concen: 14.89 ppbv
 RT: 17.59 min Scan# 5133
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

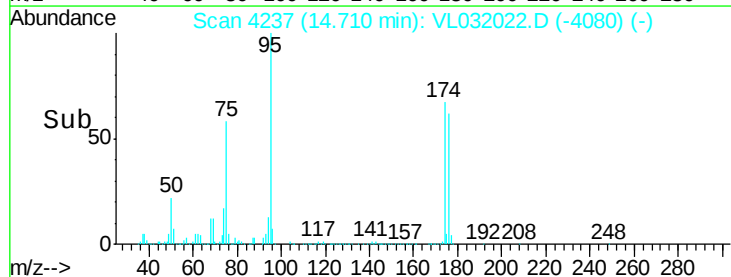
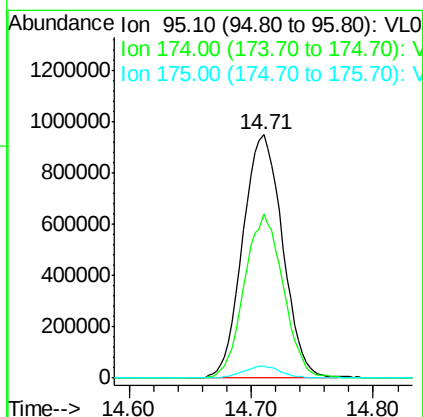
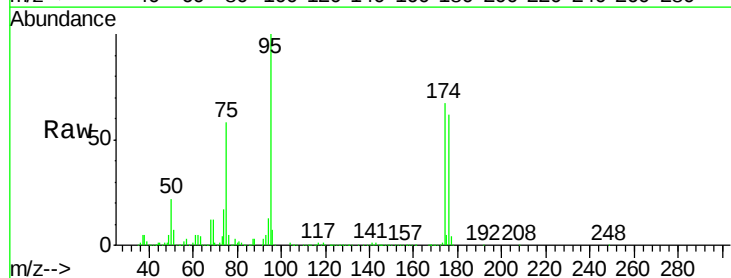
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

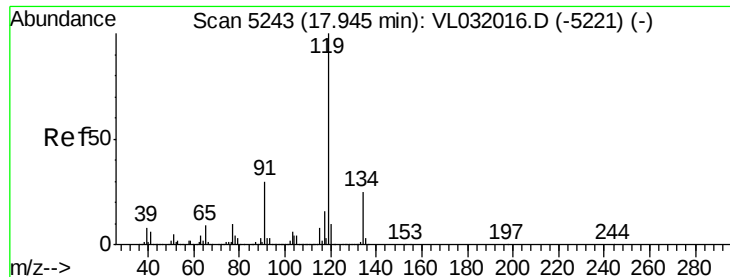
Tgt Ion: 105 Resp: 8057212
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.4 21.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.99 ppbv
 RT: 14.71 min Scan# 4237
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion: 95 Resp: 2141961
 Ion Ratio Lower Upper
 95 100
 174 66.1 53.2 79.8
 175 4.7 3.7 5.5

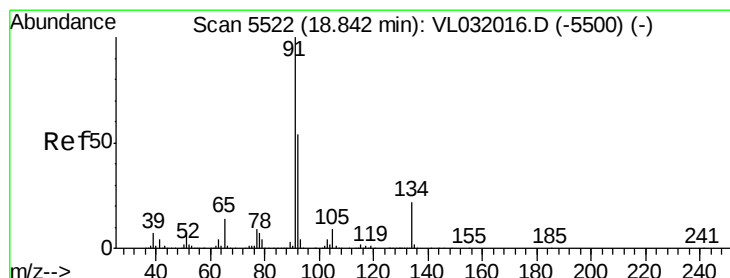
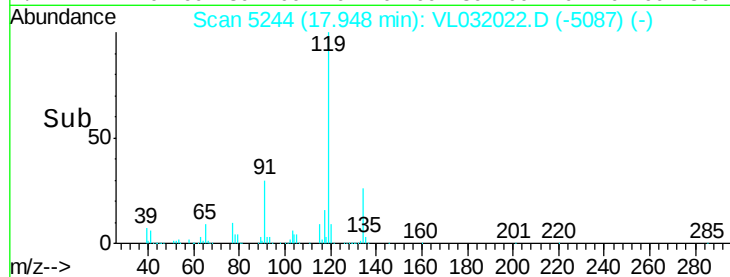
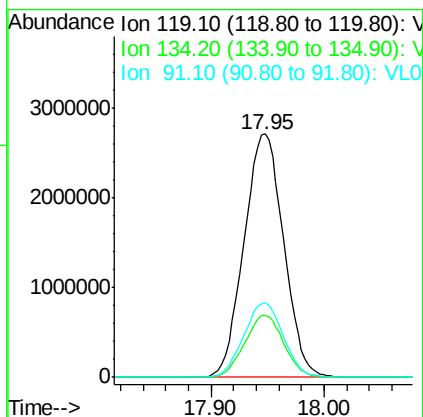
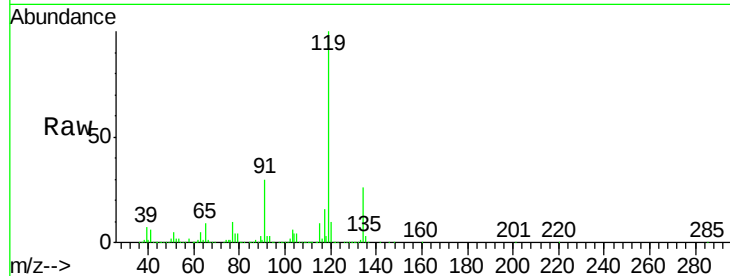




#69
p-Isopropyltoluene
Concen: 15.23 ppbv
RT: 17.95 min Scan# 5244
Delta R.T. 0.00 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

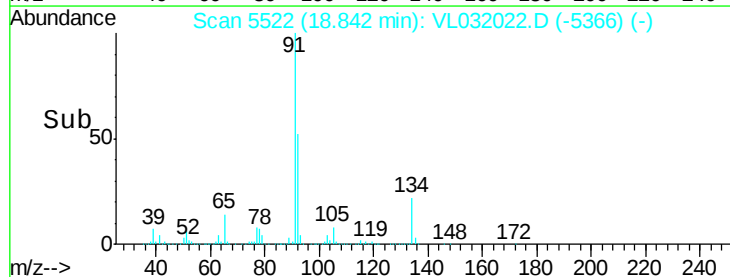
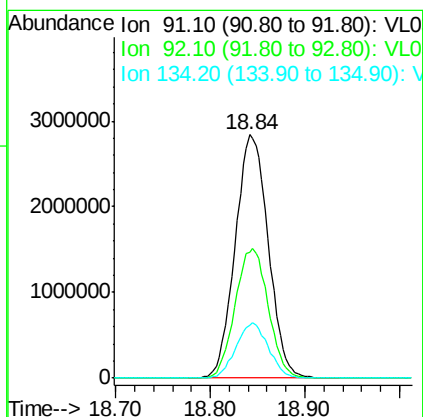
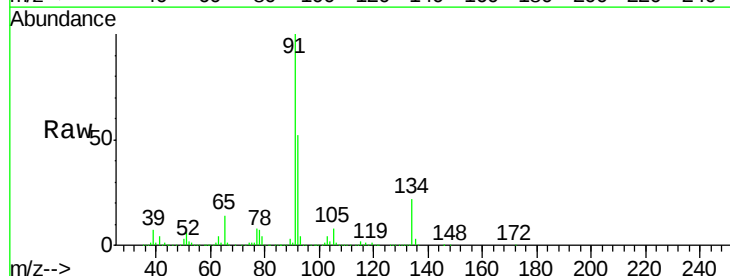
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

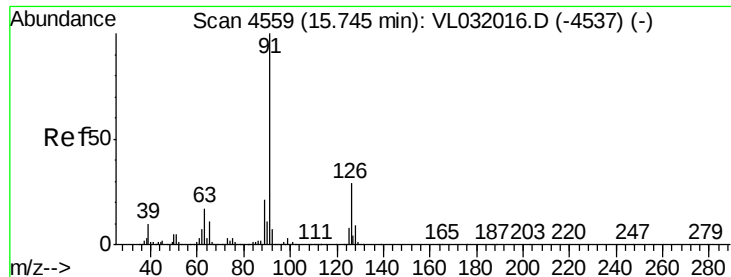
Tgt Ion: 119 Resp: 6602719
Ion Ratio Lower Upper
119 100
134 25.2 19.9 29.9
91 30.5 24.1 36.1



#70
n-Butylbenzene
Concen: 15.39 ppbv
RT: 18.84 min Scan# 5522
Delta R.T. 0.00 min
Lab File: VL032022.D
Acq: 31 May 2018 20:04

Tgt Ion: 91 Resp: 6892533
Ion Ratio Lower Upper
91 100
92 53.4 42.5 63.7
134 22.1 17.4 26.2

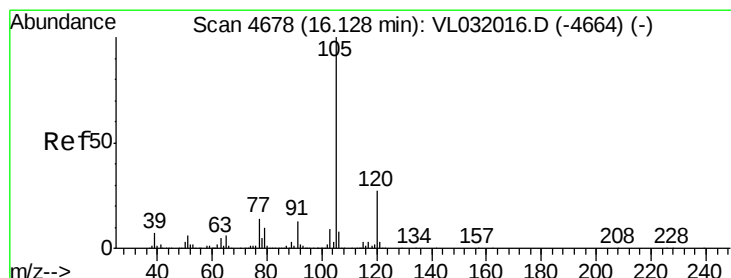
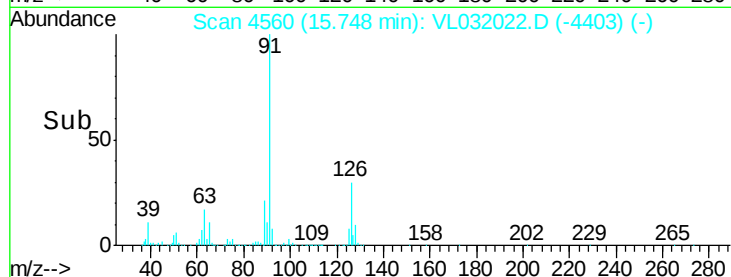
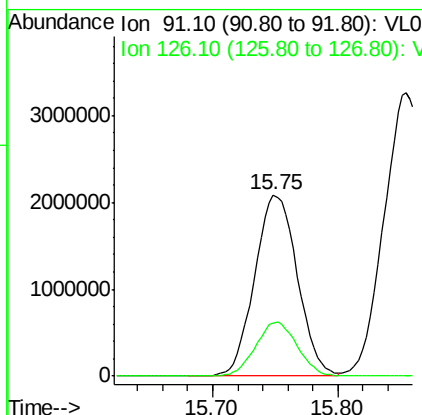
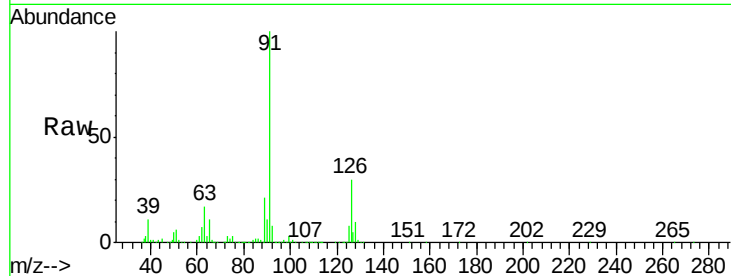




#71
 2-Chlorotoluene
 Concen: 15.37 ppbv
 RT: 15.75 min Scan# 4560
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

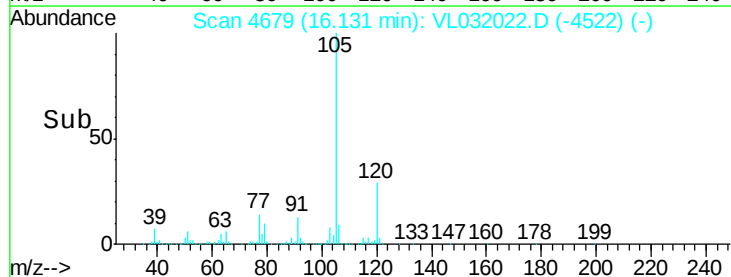
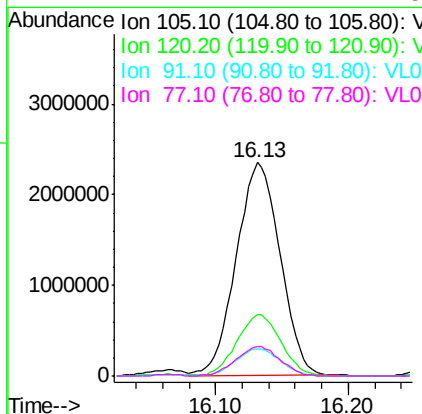
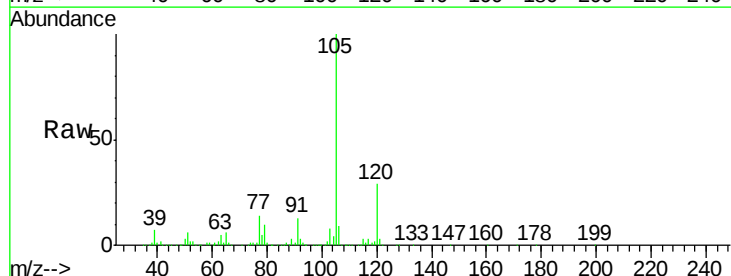
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

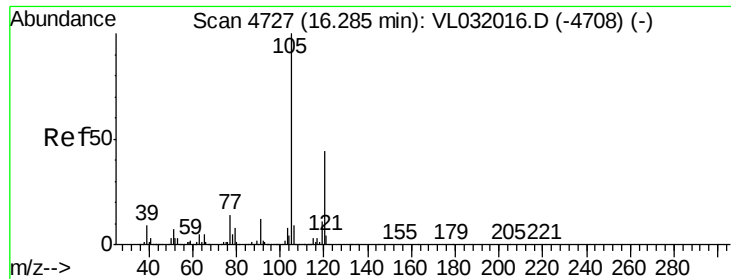
Tgt Ion: 91 Resp: 4931045
 Ion Ratio Lower Upper
 91 100
 126 29.3 11.7 46.7



#72
 4-Ethyltoluene
 Concen: 15.48 ppbv
 RT: 16.13 min Scan# 4679
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion: 105 Resp: 5395178
 Ion Ratio Lower Upper
 105 100
 120 29.0 23.4 35.0
 91 13.2 10.7 16.1
 77 14.4 11.7 17.5

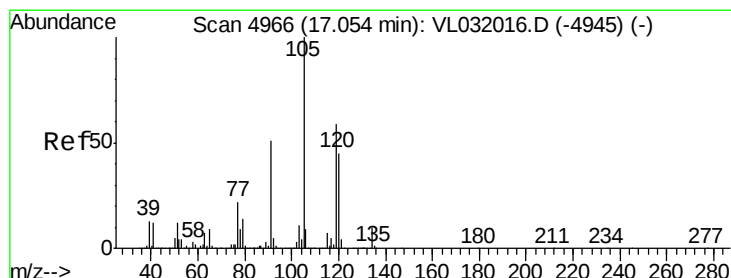
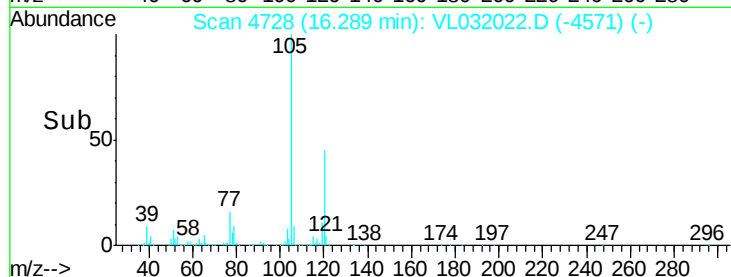
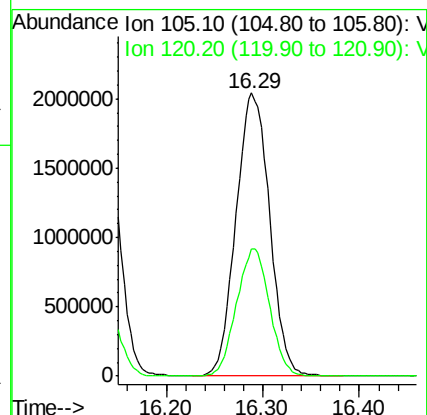
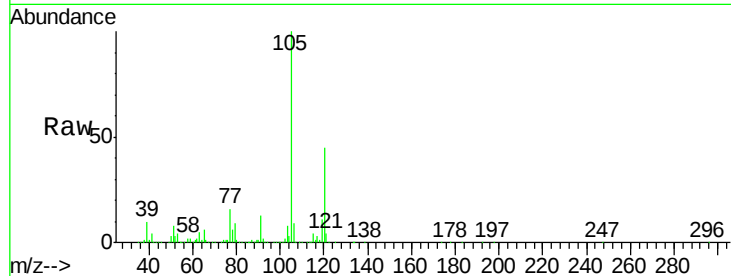




#73
 1,3,5-Trimethylbenzene
 Concen: 15.37 ppbv
 RT: 16.29 min Scan# 4728
 Delta R.T. 0.00 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

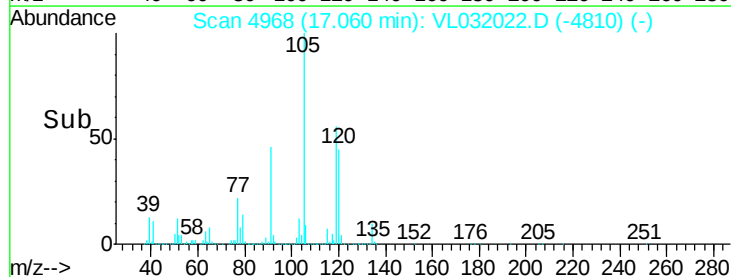
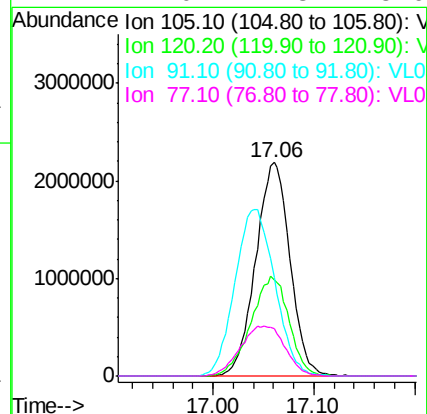
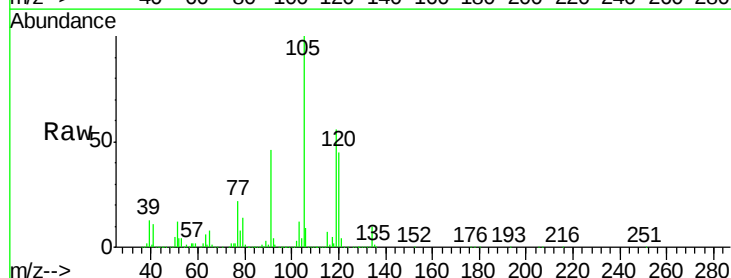
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

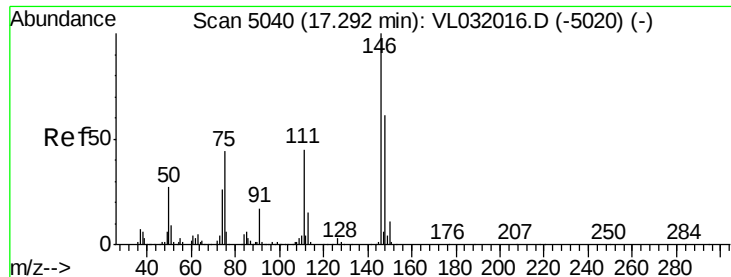
Tgt Ion:105 Resp: 4920901
 Ion Ratio Lower Upper
 105 100
 120 45.2 35.0 52.4



#74
 1,2,4-Trimethylbenzene
 Concen: 14.50 ppbv
 RT: 17.06 min Scan# 4968
 Delta R.T. 0.01 min
 Lab File: VL032022.D
 Acq: 31 May 2018 20:04

Tgt Ion:105 Resp: 5158391
 Ion Ratio Lower Upper
 105 100
 120 45.1 36.0 54.0
 91 46.1 41.4 62.0
 77 22.0 17.3 25.9





#75

1,3-Dichlorobenzene

Concen: 14.90 ppbv

RT: 17.30 min Scan# 5043

Delta R.T. 0.01 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

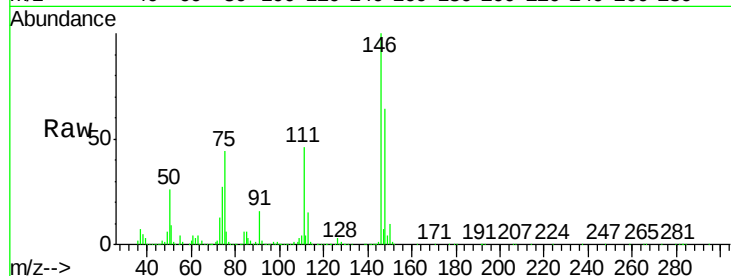
Tgt Ion:146 Resp: 3295229

Ion Ratio Lower Upper

146 100

111 47.3 23.7 71.1

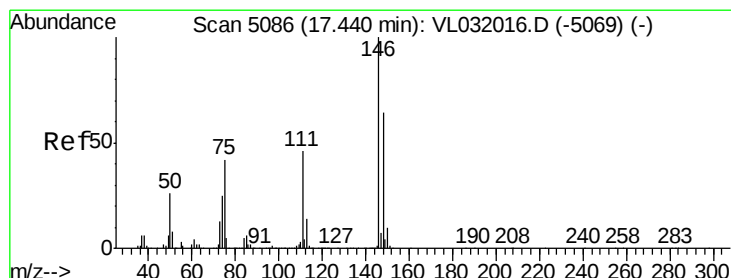
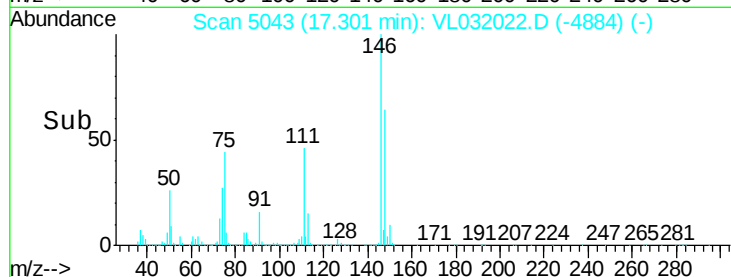
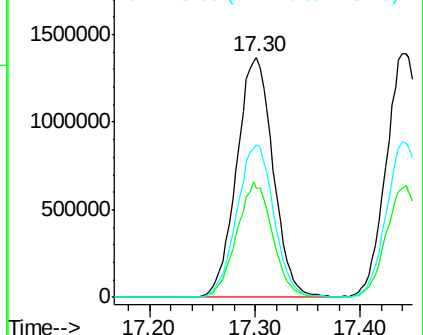
148 64.6 32.1 96.5



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: 15.34 ppbv

RT: 17.44 min Scan# 5086

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

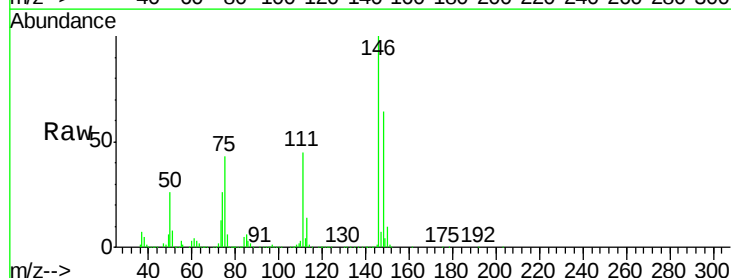
Tgt Ion:146 Resp: 3353261

Ion Ratio Lower Upper

146 100

111 45.1 22.4 67.0

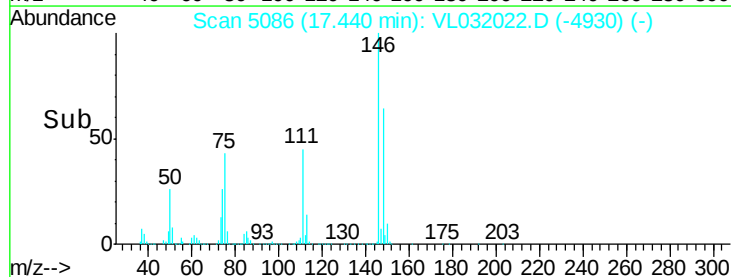
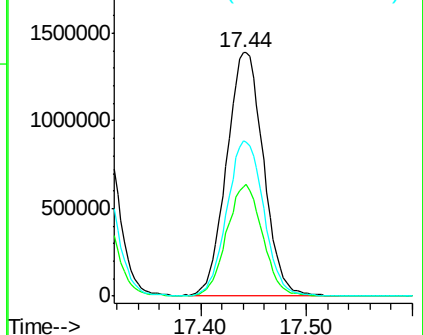
148 63.9 32.1 96.3

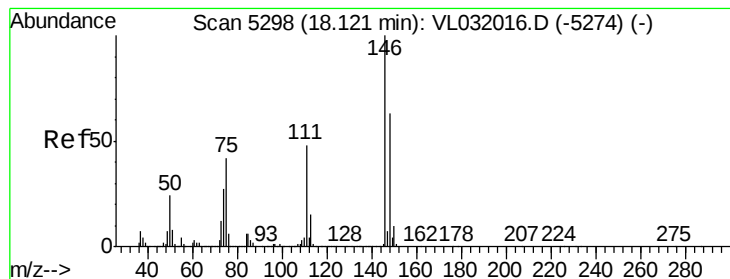


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 14.89 ppbv

RT: 18.12 min Scan# 5298

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

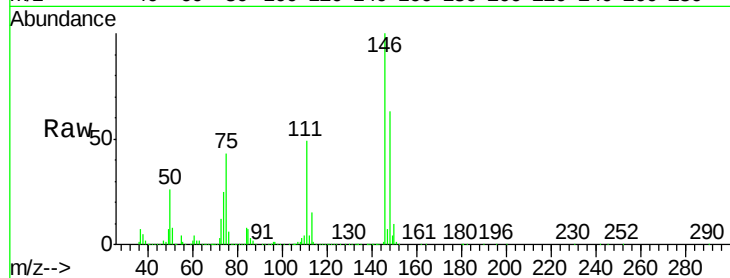
Tgt Ion:146 Resp: 3281938

Ion Ratio Lower Upper

146 100

111 48.7 24.2 72.6

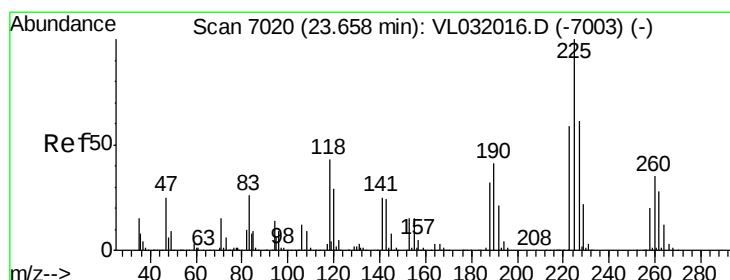
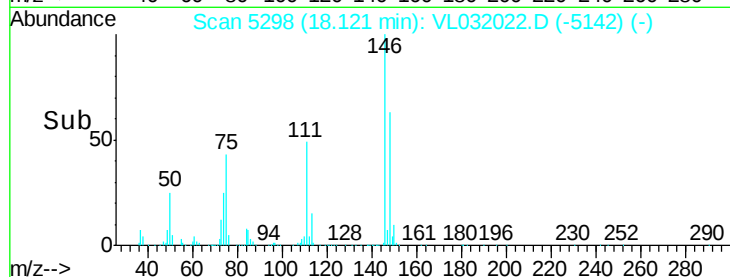
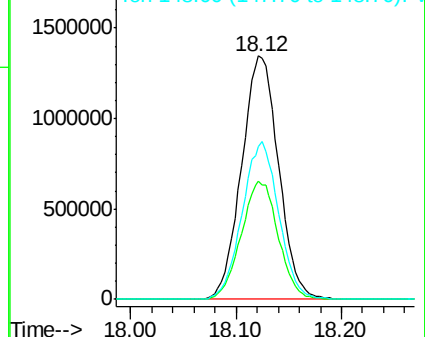
148 64.3 32.0 96.2



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



#78

Hexachloro-1,3-Butadiene

Concen: 12.95 ppbv

RT: 23.67 min Scan# 7023

Delta R.T. 0.01 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

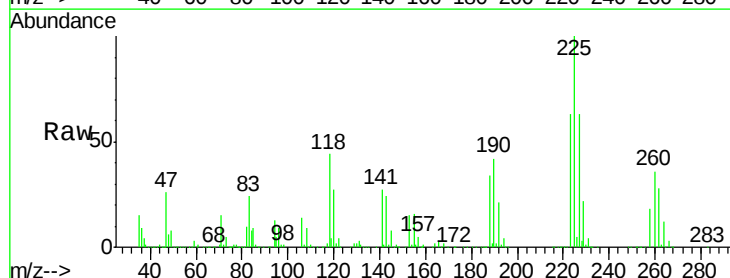
Tgt Ion:225 Resp: 1167586

Ion Ratio Lower Upper

225 100

223 62.8 49.4 74.2

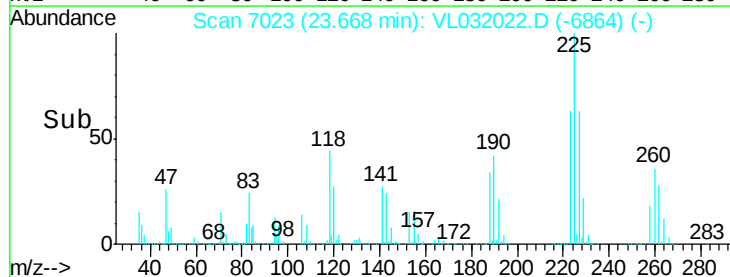
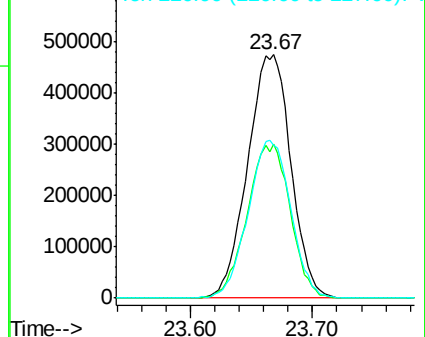
227 63.9 51.2 76.8

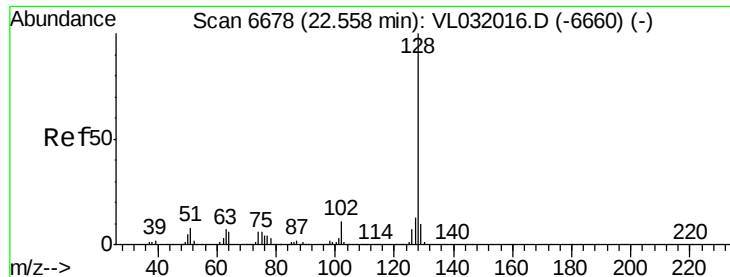


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 17.56 ppbv

RT: 22.56 min Scan# 6680

Delta R.T. 0.01 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

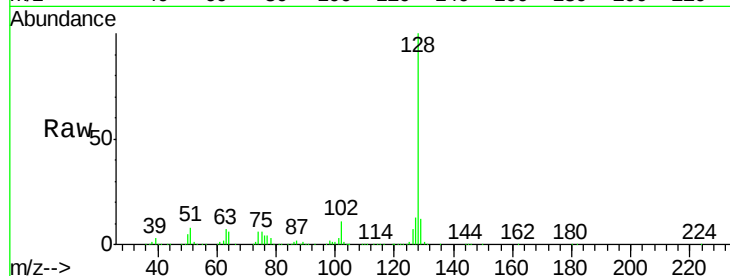
Tgt Ion:128 Resp: 4288772

Ion Ratio Lower Upper

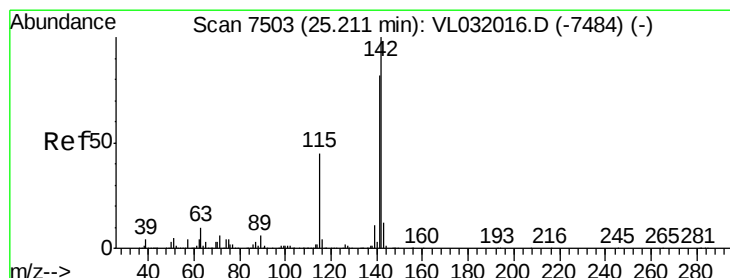
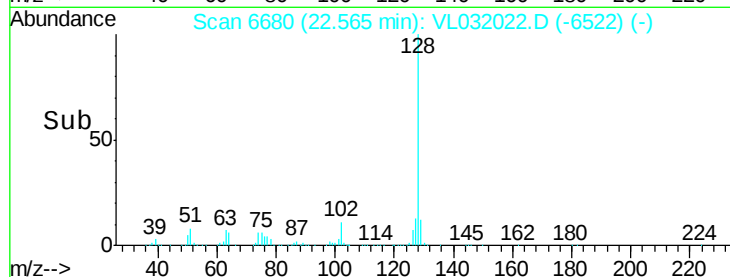
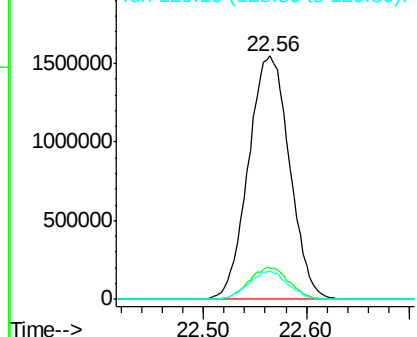
128 100

127 12.9 10.2 15.2

129 11.7 8.2 12.2



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: 19.76 ppbv

RT: 25.21 min Scan# 7504

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

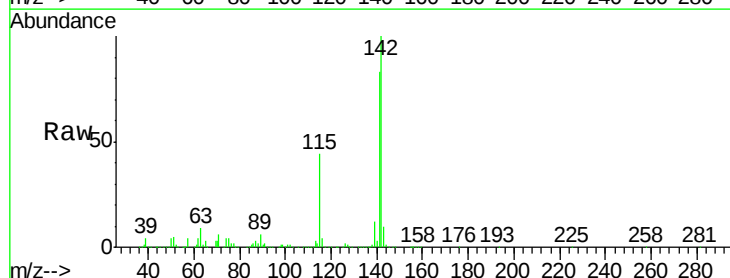
Tgt Ion:142 Resp: 1272281

Ion Ratio Lower Upper

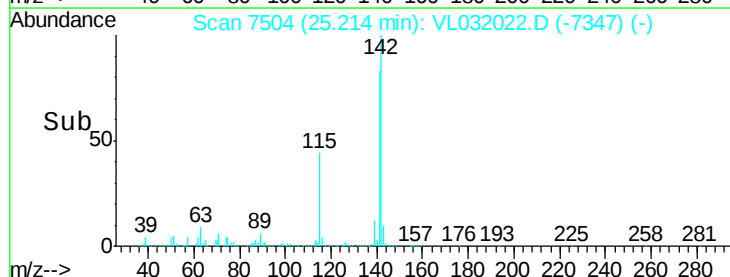
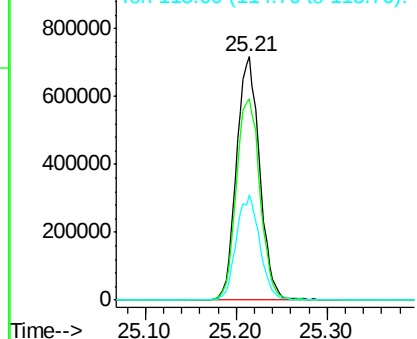
142 100

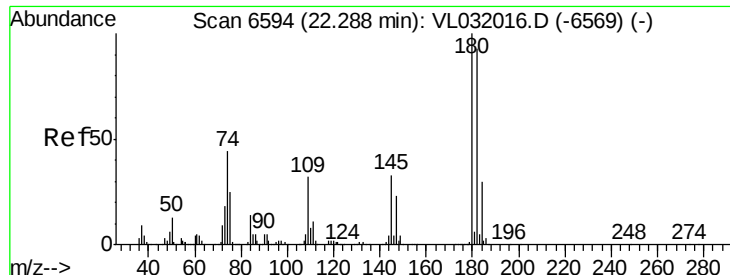
141 85.1 67.4 101.2

115 43.8 35.3 52.9



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: 16.13 ppbv

RT: 22.29 min Scan# 6595

Delta R.T. 0.00 min

Lab File: VL032022.D

Acq: 31 May 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

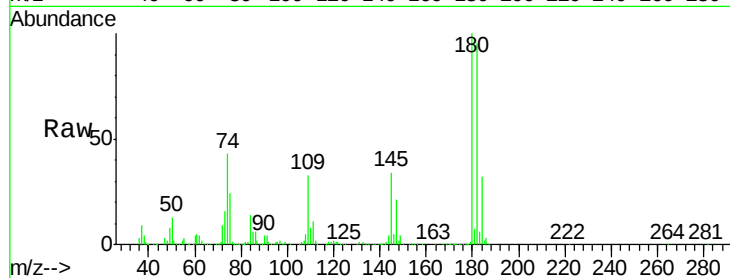
Tgt Ion:180 Resp: 2182646

Ion Ratio Lower Upper

180 100

182 95.2 77.8 116.6

184 30.4 24.9 37.3



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

