

Data File : VL032151.D
Acq On : 29 Jun 2018 21:55
Operator : SY/AP
Sample : VSTDIC015
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Jun 29 22:22:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 20:36:18 2018
QLast Update : Fri Jun 29 20:36:18 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1592187	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.39	114	4242075	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.35	117	5410876	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.69	95	3060193	7.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	76.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	2258470	13.526	ppbv	100
3) Chlorodifluoromethane	3.07	51	2533569	12.255	ppbv	96
4) Chloromethane	3.23	50	1433312	12.975	ppbv	100
5) Vinyl Chloride	3.35	62	1397846	12.267	ppbv	98
6) Bromomethane	3.58	94	826530	12.493	ppbv	98
7) Chloroethane	3.67	64	504592	11.946	ppbv	98
8) Dichlorotetrafluoroethane	3.28	85	2884521	12.559	ppbv	97
9) Propene	3.09	41	1188464	11.767	ppbv	98
10) Heptane	8.35	43	3467517	12.109	ppbv	99
11) Trichlorofluoromethane	4.08	101	2912085	13.240	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.63	101	1933051	12.984	ppbv	97
13) Ethanol	3.72	45	287062	9.436	ppbv	99
14) Bromoethene	3.86	108	981531	13.445	ppbv	98
15) Acetone	3.97	43	2352811	11.121	ppbv	100
16) 1,3-Butadiene	3.42	39	1275131	12.834	ppbv	90
17) tert-Butyl alcohol	4.44	59	1495996	11.761	ppbv	99
18) 1,1-Dichloroethene	4.43	96	939116	12.844	ppbv	99
19) Isopropyl Alcohol	4.10	45	1876208	11.299	ppbv	94
20) Methylene Chloride	4.49	84	831285	11.633	ppbv	99
21) Allyl Chloride	4.56	41	1722018	13.117	ppbv	97
22) trans-1,2-Dichloroethene	5.04	96	1036673	13.931	ppbv	97
23) Vinyl Acetate	5.24	43	4524003	14.050	ppbv	98
24) 1,1-Dichloroethane	5.18	63	2774827	11.450	ppbv	99
25) Ethyl Acetate	5.86	43	5075165	10.939	ppbv	100
26) Hexane	5.87	57	2273245	11.053	ppbv	94
27) Carbon Disulfide	4.70	76	2479439	12.058	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	3920528	15.071	ppbv	100
29) Chloroform	5.94	83	3530125	13.002	ppbv	99
30) Cyclohexane	7.34	84	2277316	13.446	ppbv	98
31) cis-1,2-Dichloroethene	5.73	61	2468194	13.484	ppbv	98
32) 1,1,1-Trichloroethane	6.71	97	3650151	12.896	ppbv	99
34) 2-Butanone	5.41	43	3636889	10.561	ppbv	100
35) Carbon Tetrachloride	7.23	117	3793204	12.884	ppbv	99
36) Benzene	7.10	78	5439646	11.827	ppbv	97
37) 1,2-Dichloroethane	6.50	62	2850968	12.053	ppbv	99
38) Trichloroethene	8.06	130	1816187	10.241	ppbv	96
39) 1,2-Dichloropropane	7.84	63	2118168	12.542	ppbv	95
40) 1,4-Dioxane	8.05	88	687842	8.739	ppbv	# 1
41) Tetrahydrofuran	6.24	42	2151107	10.459	ppbv	99
42) Bromodichloromethane	8.02	83	4223275	13.201	ppbv	99
43) Methyl Methacrylate	8.24	69	2246607	12.346	ppbv	98

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ClientSampleId :
VSTDICC015

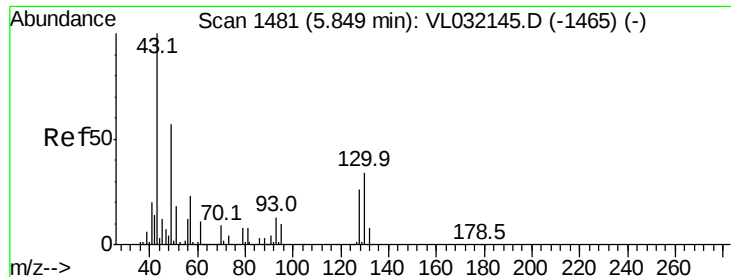
Quant Time: Jun 29 22:22:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 20:36:18 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.09	57	8593676	11.384	ppbv	98
45) t-1,3-Dichloropropene	9.52	75	3049917	13.553	ppbv	100
46) cis-1,3-Dichloropropene	8.94	75	3493546	12.127	ppbv	99
47) 1,1,2-Trichloroethane	9.72	97	2205693	11.541	ppbv	99
48) Dibromochloromethane	10.56	129	3442471	12.033	ppbv	99
49) Bromoform	13.32	173	2843851	12.983	ppbv	99
50) 4-Methyl-2-Pentanone	8.97	43	5755971	10.778	ppbv	99
51) 2-Hexanone	10.38	43	4746020	8.929	ppbv	100
52) Tetrachloroethene	11.48	164	1661507	9.773	ppbv	96
53) Toluene	10.05	91	6124854	11.032	ppbv	100
54) 1,2-Dibromoethane	10.87	107	3274881	11.581	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.39	131	2277440	9.466	ppbv	87
57) Chlorobenzene	12.41	112	4312785	8.412	ppbv	97
58) Ethyl Benzene	12.97	91	8186040	8.682	ppbv	98
59) m/p-Xylene	13.26	91	6080618	8.151	ppbv #	26
60) o-Xylene	13.96	91	6193895	8.370	ppbv	97
61) Styrene	13.80	104	5420802	24.522	ppbv	95
62) Isopropylbenzene	14.94	105	9177029	9.306	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.94	83	4385821	7.632	ppbv	100
64) n-propylbenzene	15.83	120	2442371	9.506	ppbv	94
65) tert-Butylbenzene	17.02	119	7550903	8.697	ppbv	95
66) Benzyl Chloride	17.27	91	5621540	50.746	ppbv	97
67) sec-Butylbenzene	17.57	105	11123179	8.789	ppbv	99
69) p-Isopropyltoluene	17.93	119	9137774	8.808	ppbv	97
70) n-Butylbenzene	18.82	91	9783667	8.967	ppbv	99
71) 2-Chlorotoluene	15.73	91	7309395	9.662	ppbv	96
72) 4-Ethyltoluene	16.11	105	7977882	9.553	ppbv	98
73) 1,3,5-Trimethylbenzene	16.27	105	7483895	10.009	ppbv	97
74) 1,2,4-Trimethylbenzene	17.04	105	7114855	8.948	ppbv	96
75) 1,3-Dichlorobenzene	17.28	146	4007055	8.242	ppbv	97
76) 1,4-Dichlorobenzene	17.42	146	4245430	8.587	ppbv	97
77) 1,2-Dichlorobenzene	18.10	146	4174770	8.253	ppbv	98
78) Hexachloro-1,3-Butadiene	23.64	225	1463308	10.632	ppbv	99
79) Naphthalene	22.54	128	8159418	9.827	ppbv	100
80) Naphthalene,2-methyl-	25.20	142	4302129	8.653	ppbv	97
81) 1,2,4-Trichlorobenzene	22.26	180	3584952	11.027	ppbv	100

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

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Quant Method : Z:\VQASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1482

Delta R.T. -0.01 min

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VSTDIC015

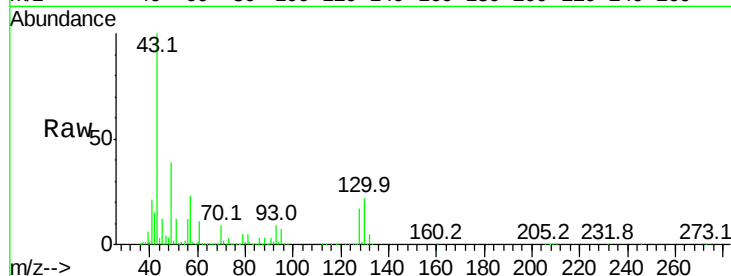
Tgt Ion: 49 Resp: 1592187

Ion Ratio Lower Upper

49 100

128 45.0 23.4 70.0

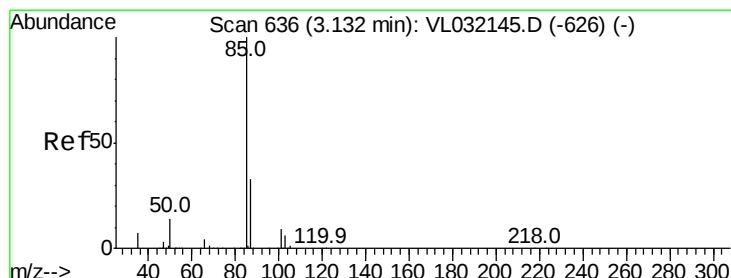
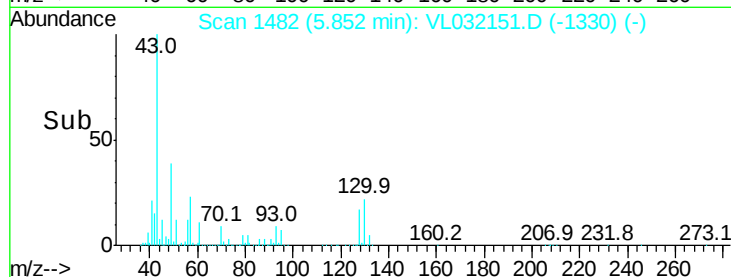
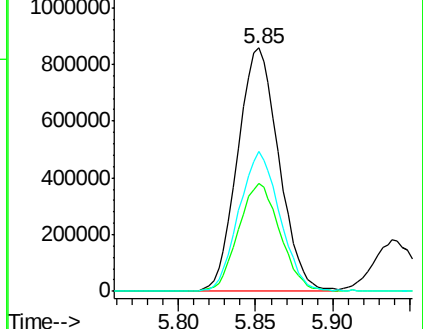
130 57.3 30.3 90.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 13.526 ppbv

RT: 3.13 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032151.D

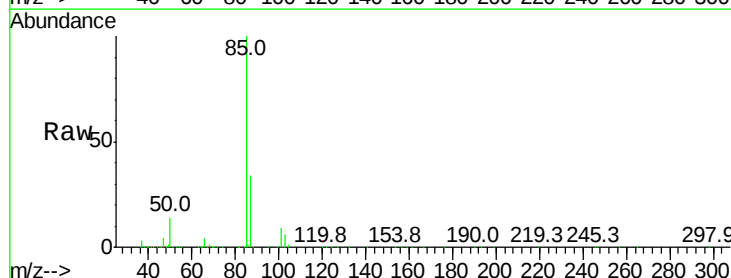
Acq: 29 Jun 2018 21:55

Tgt Ion: 85 Resp: 2258470

Ion Ratio Lower Upper

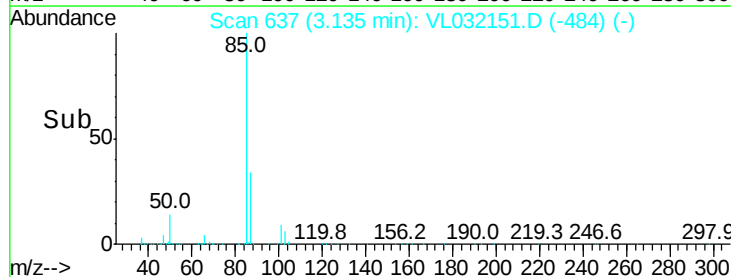
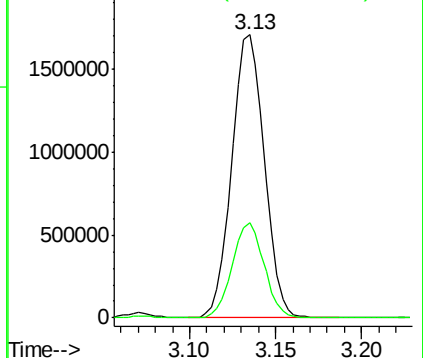
85 100

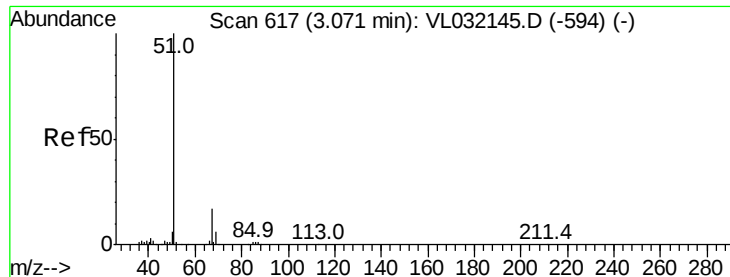
87 33.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 12.255 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

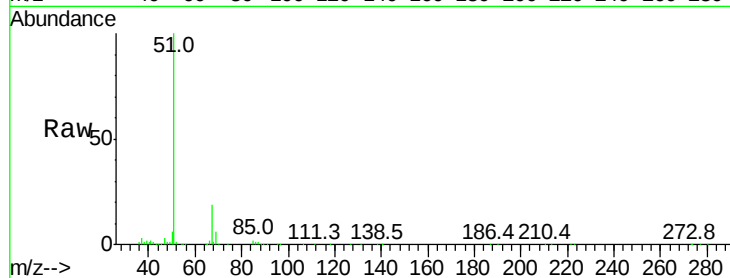
VSTDIC015

Tgt Ion: 51 Resp: 2533569

Ion Ratio Lower Upper

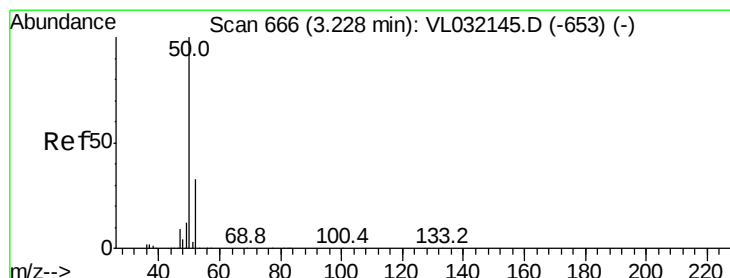
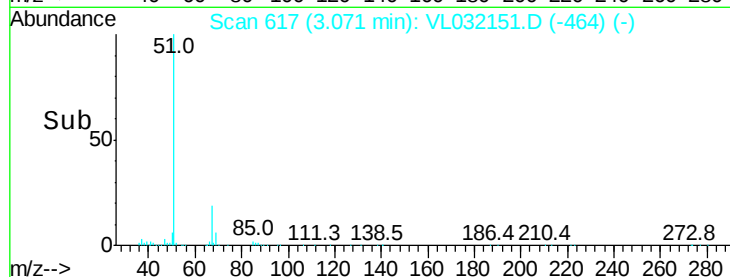
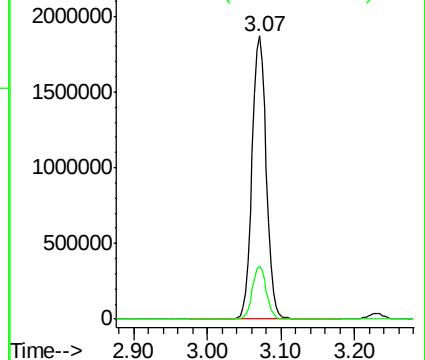
51 100

67 18.4 13.2 19.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 12.975 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032151.D

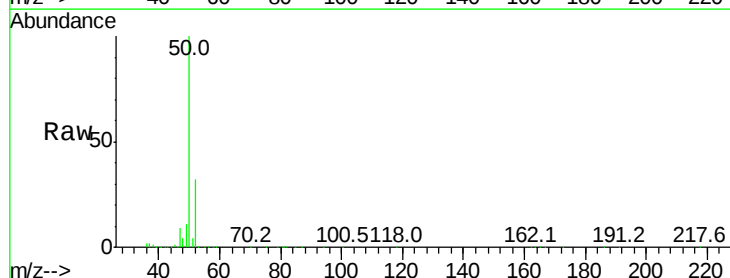
Acq: 29 Jun 2018 21:55

Tgt Ion: 50 Resp: 1433312

Ion Ratio Lower Upper

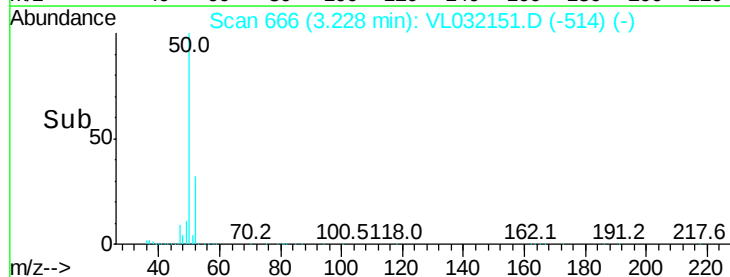
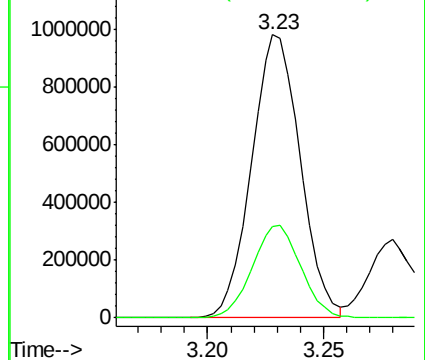
50 100

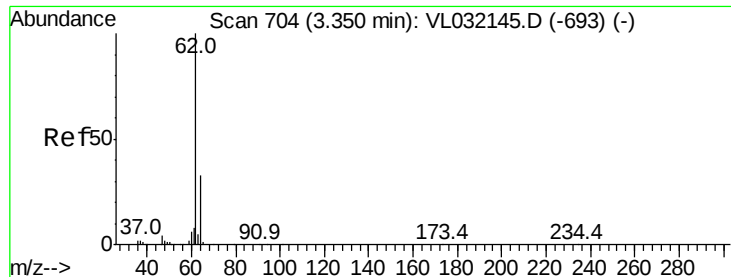
52 32.4 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 12.267 ppbv

RT: 3.35 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

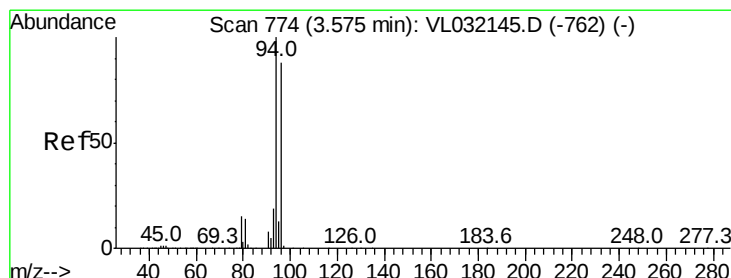
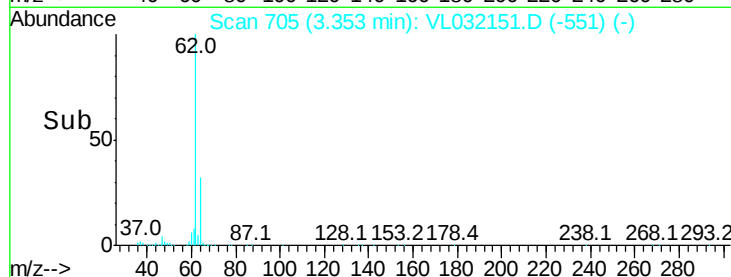
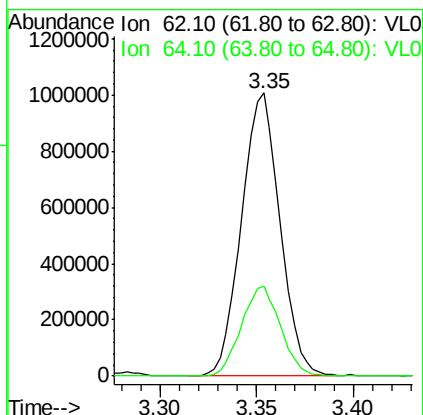
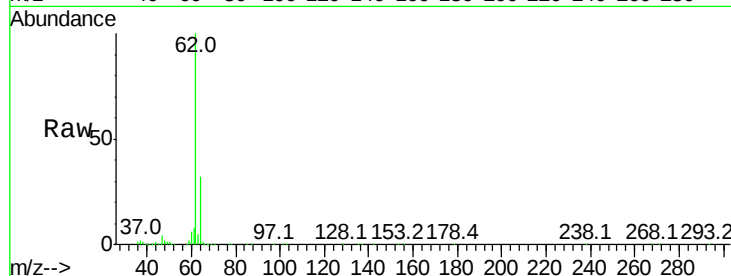
VSTDIC015

Tgt Ion: 62 Resp: 1397846

Ion Ratio Lower Upper

62 100

64 31.7 26.1 39.1



#6

Bromomethane

Concen: 12.493 ppbv

RT: 3.58 min Scan# 775

Delta R.T. -0.01 min

Lab File: VL032151.D

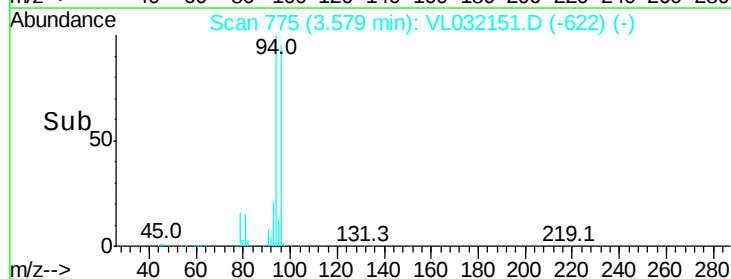
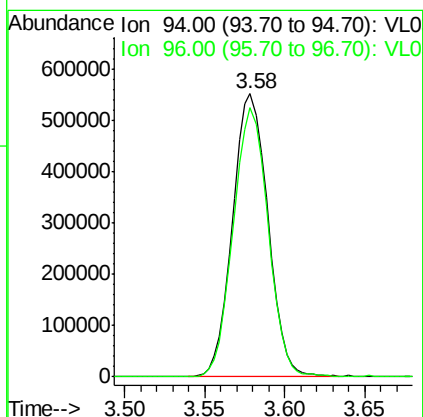
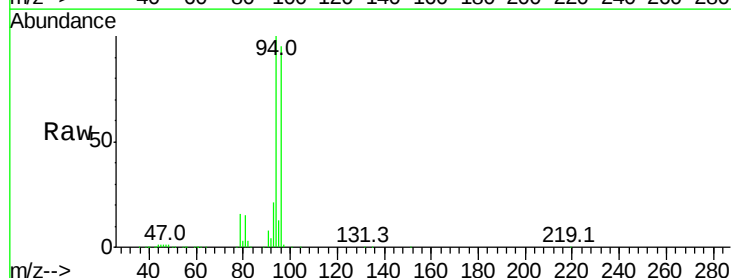
Acq: 29 Jun 2018 21:55

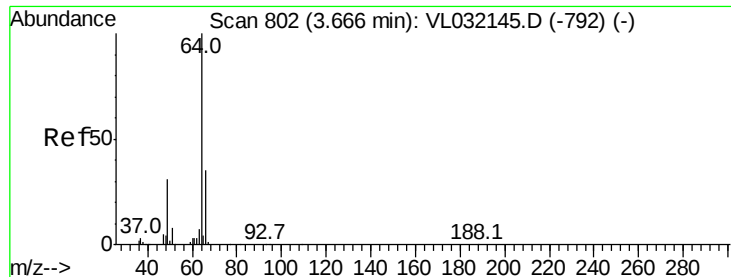
Tgt Ion: 94 Resp: 826530

Ion Ratio Lower Upper

94 100

96 95.4 74.7 112.1





#7

Chloroethane

Concen: 11.946 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

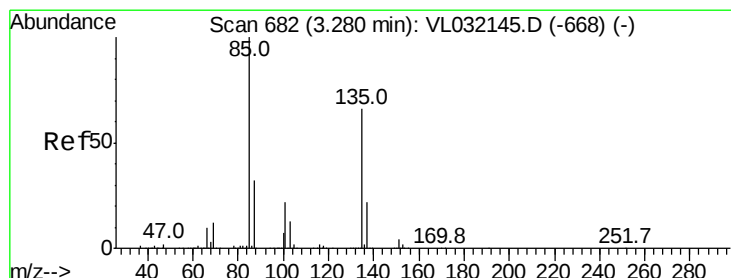
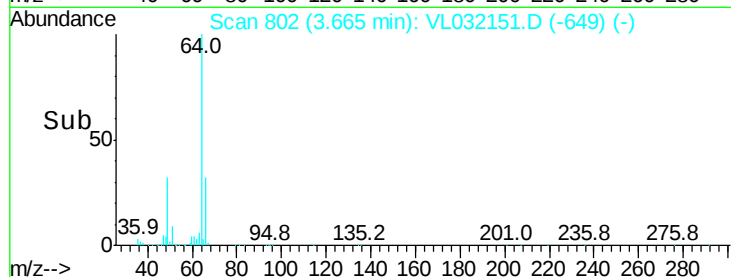
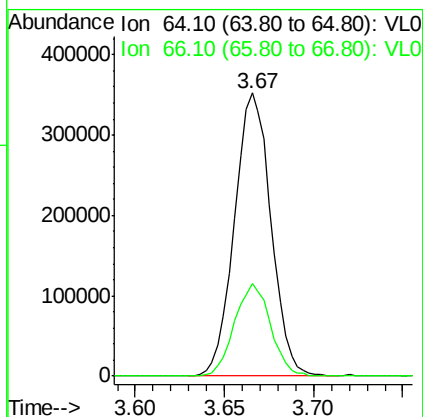
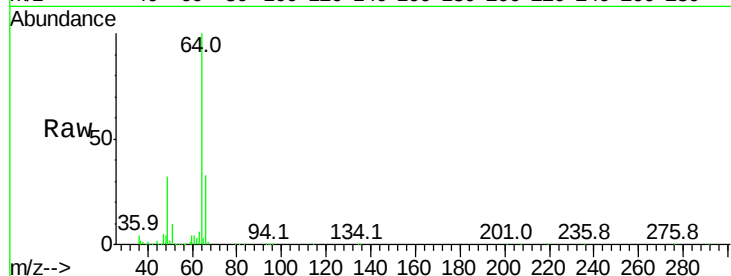
VSTDIC015

Tgt Ion: 64 Resp: 504592

Ion Ratio Lower Upper

64 100

66 32.5 26.9 40.3



#8

Dichlorotetrafluoroethane

Concen: 12.559 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032151.D

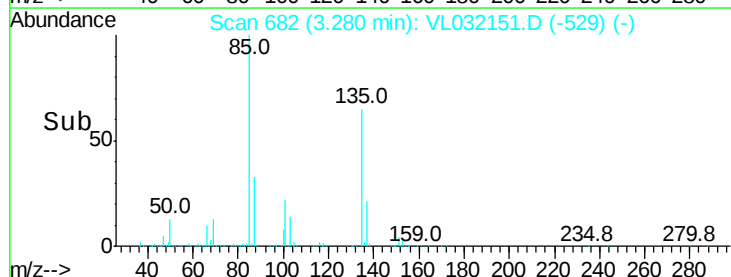
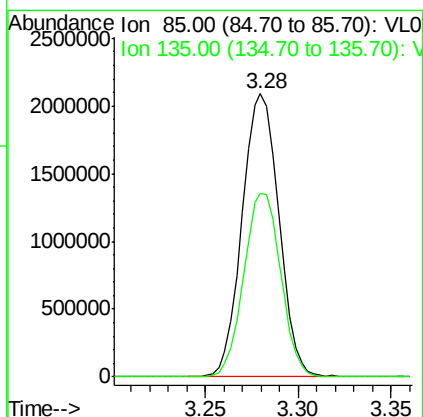
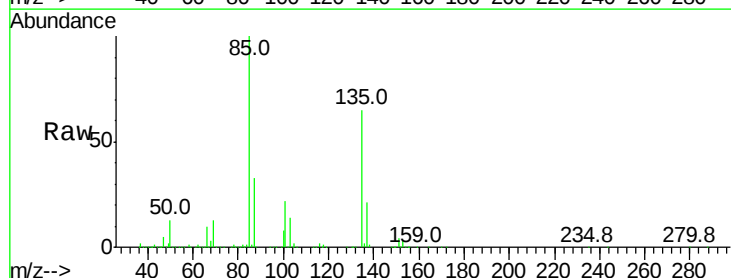
Acq: 29 Jun 2018 21:55

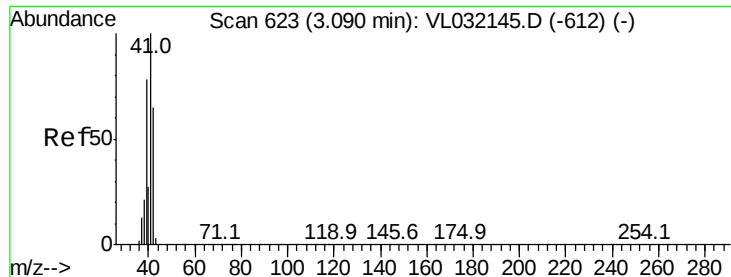
Tgt Ion: 85 Resp: 2884521

Ion Ratio Lower Upper

85 100

135 65.6 54.6 82.0





#9

Propene

Concen: 11.767 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

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Acq: 29 Jun 2018 21:55

Instrument :

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ClientSampleId :

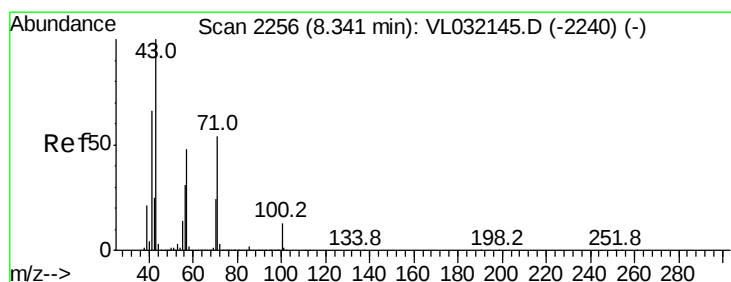
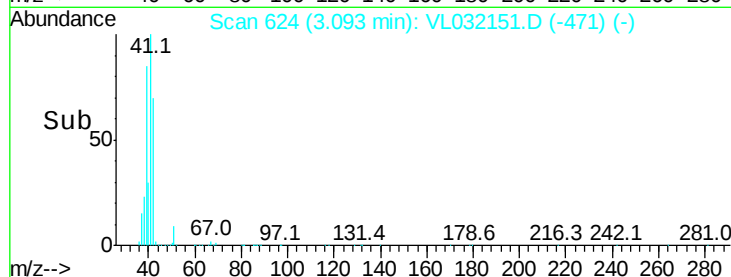
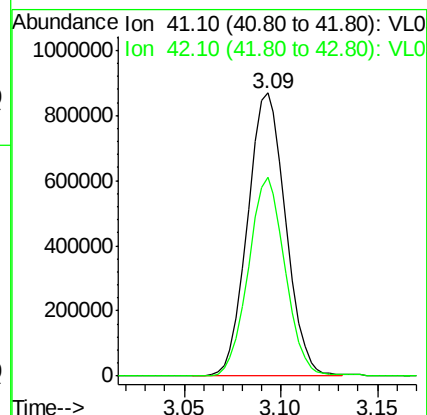
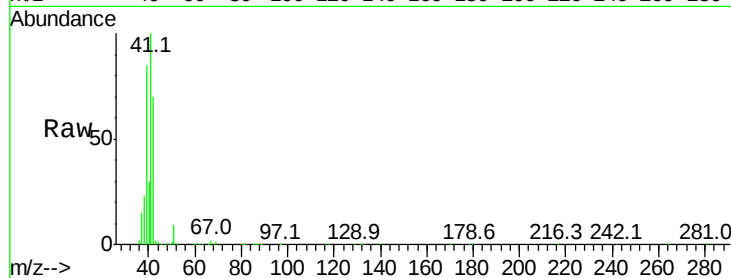
VSTDIC015

Tgt Ion: 41 Resp: 1188464

Ion Ratio Lower Upper

41 100

42 68.4 56.2 84.4



#10

Heptane

Concen: 12.109 ppbv

RT: 8.35 min Scan# 2258

Delta R.T. -0.01 min

Lab File: VL032151.D

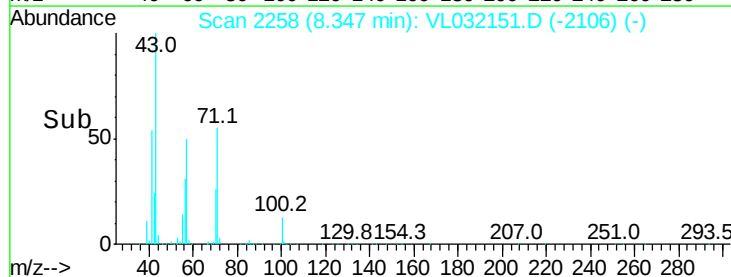
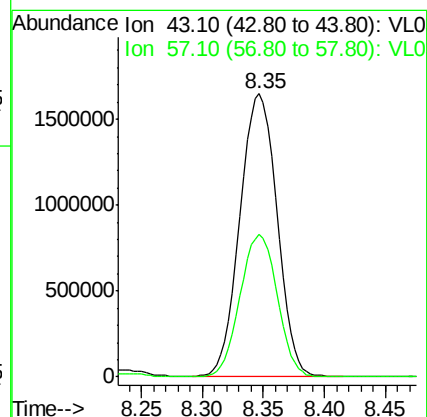
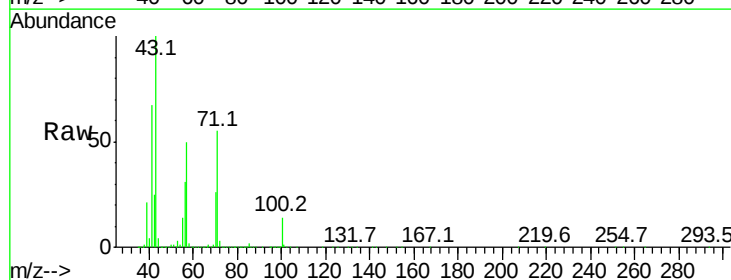
Acq: 29 Jun 2018 21:55

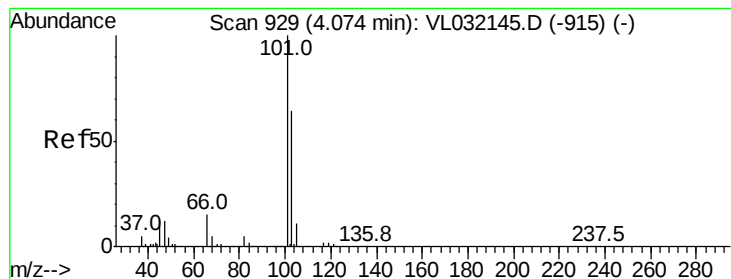
Tgt Ion: 43 Resp: 3467517

Ion Ratio Lower Upper

43 100

57 50.5 39.8 59.8





#11

Trichlorofluoromethane

Concen: 13.240 ppbv

RT: 4.08 min Scan# 930

Delta R.T. -0.01 min

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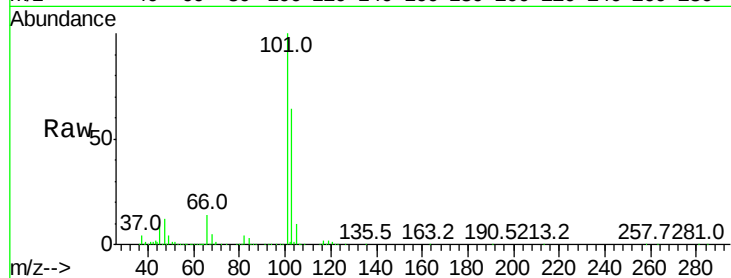
VSTDIC015

Tgt Ion:101 Resp: 2912085

Ion Ratio Lower Upper

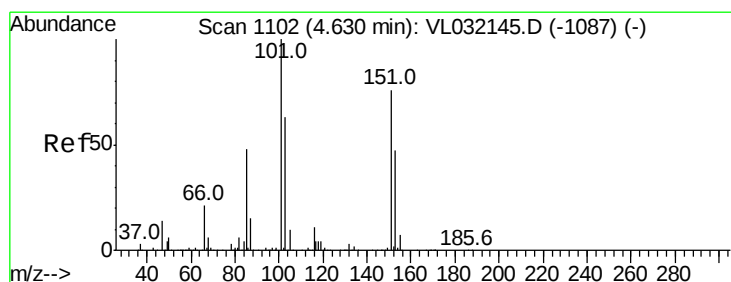
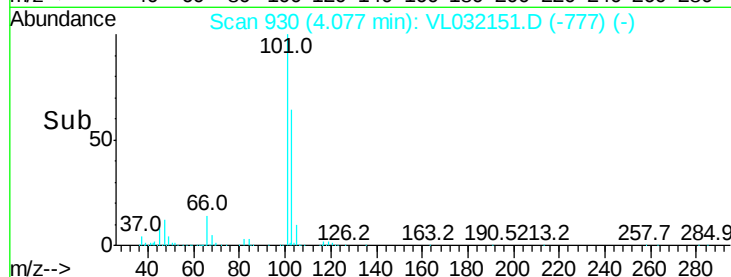
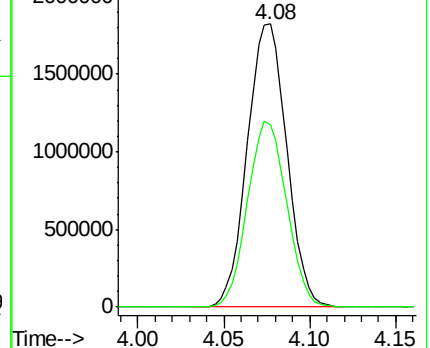
101 100

103 64.2 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 12.984 ppbv

RT: 4.63 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VL032151.D

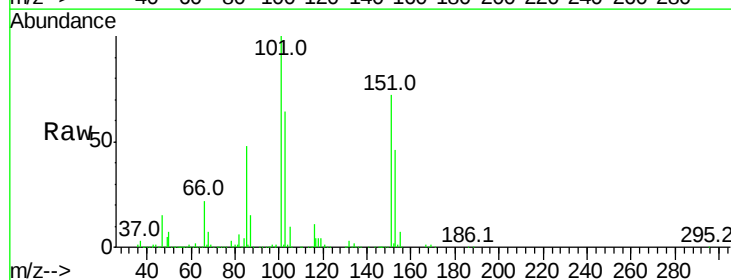
Acq: 29 Jun 2018 21:55

Tgt Ion:101 Resp: 1933051

Ion Ratio Lower Upper

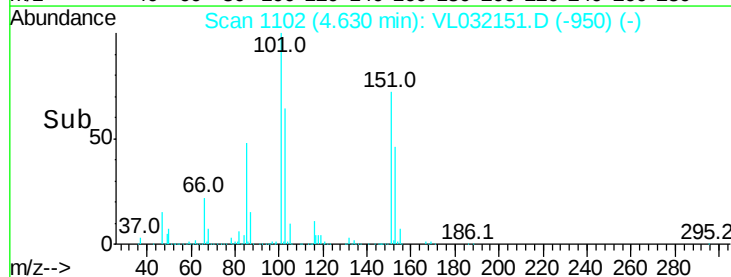
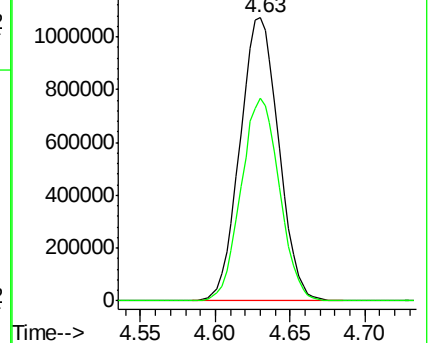
101 100

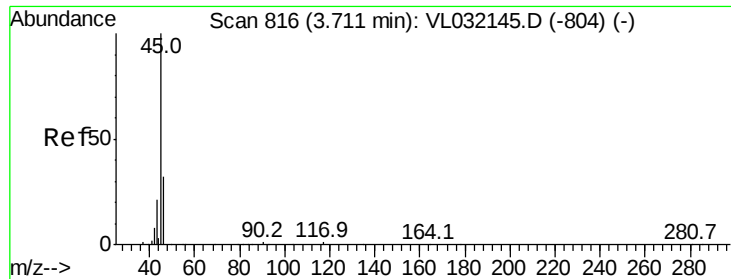
151 70.9 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 9.436 ppbv

RT: 3.72 min Scan# 818

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

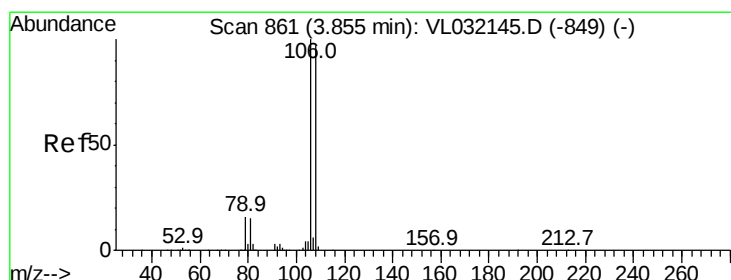
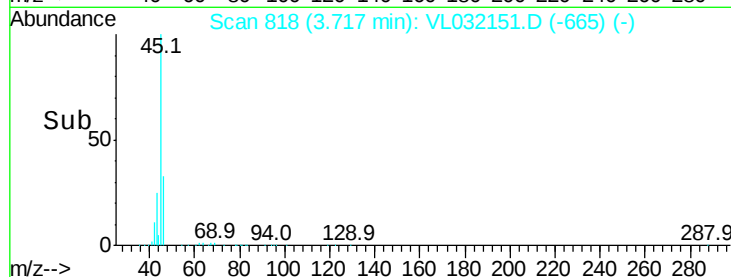
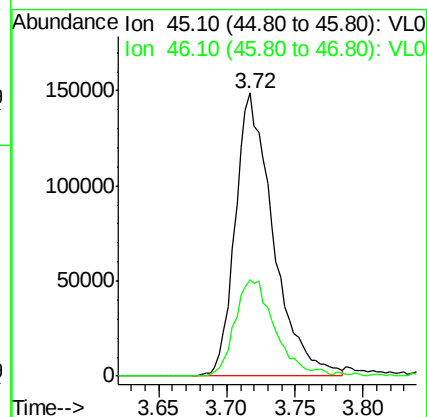
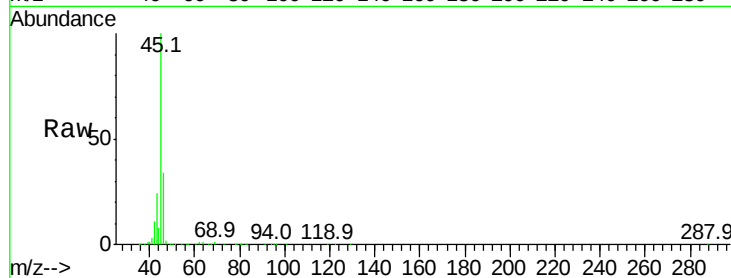
VSTDIC015

Tgt Ion: 45 Resp: 287062

Ion Ratio Lower Upper

45 100

46 37.0 14.6 58.4



#14

Bromoethene

Concen: 13.445 ppbv

RT: 3.86 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

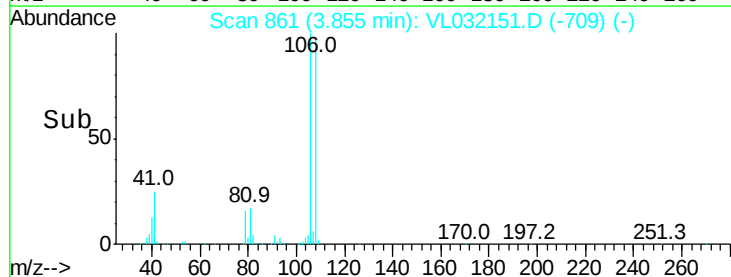
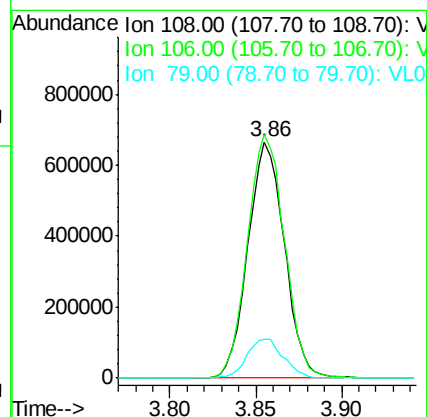
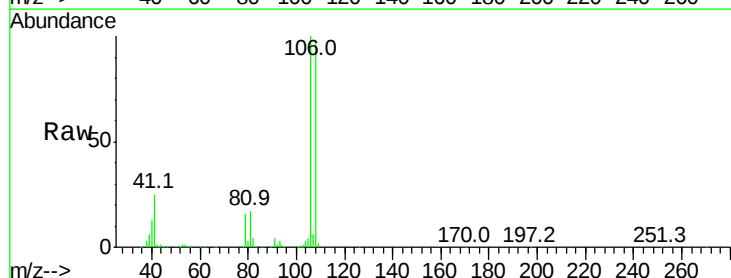
Tgt Ion: 108 Resp: 981531

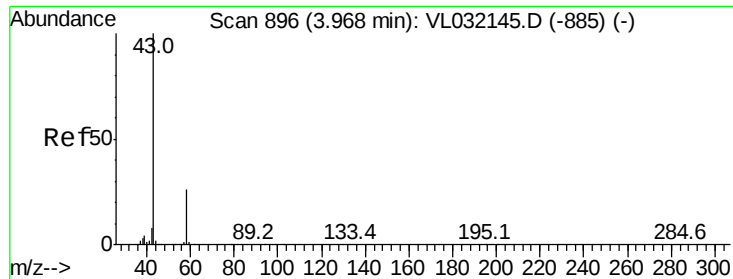
Ion Ratio Lower Upper

108 100

106 105.4 86.3 129.5

79 16.8 12.7 19.1





#15

Acetone

Concen: 11.121 ppbv

RT: 3.97 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

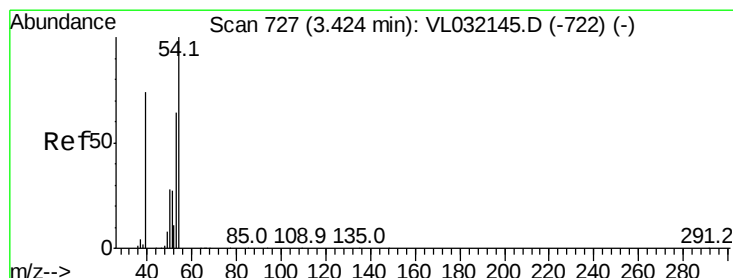
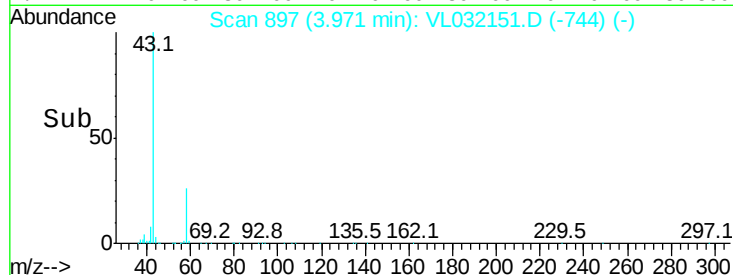
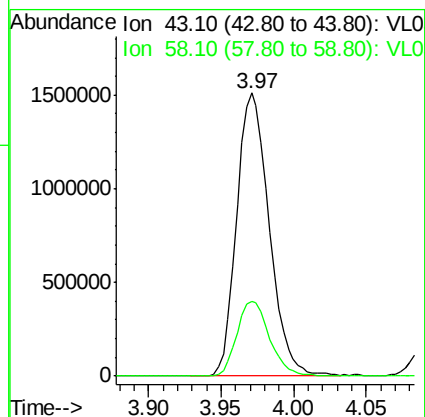
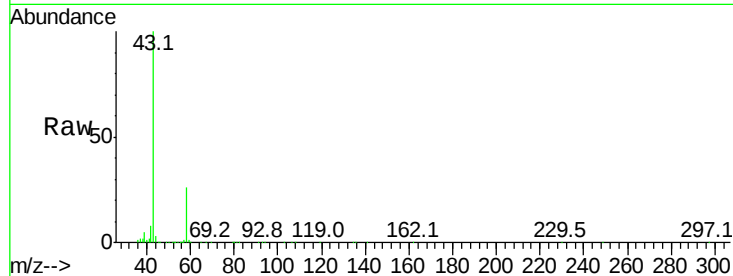
VSTDIC015

Tgt Ion: 43 Resp: 2352811

Ion Ratio Lower Upper

43 100

58 26.7 21.4 32.0



#16

1,3-Butadiene

Concen: 12.834 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032151.D

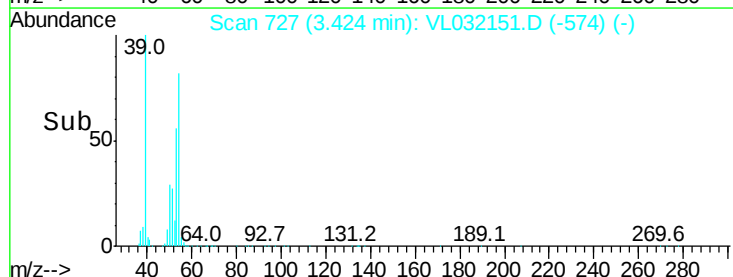
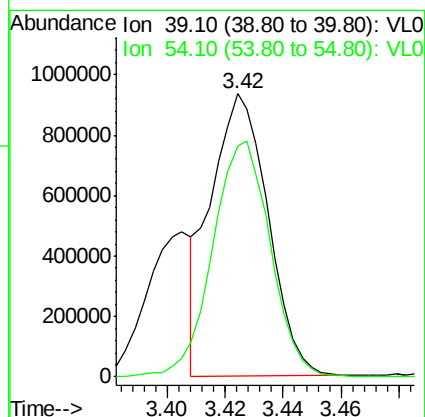
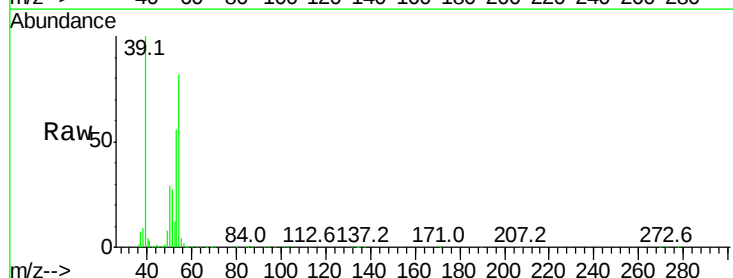
Acq: 29 Jun 2018 21:55

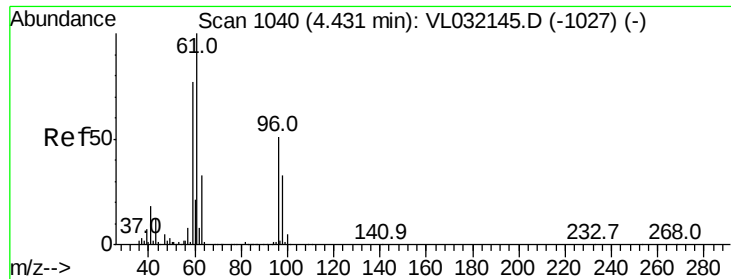
Tgt Ion: 39 Resp: 1275131

Ion Ratio Lower Upper

39 100

54 85.4 75.8 113.6

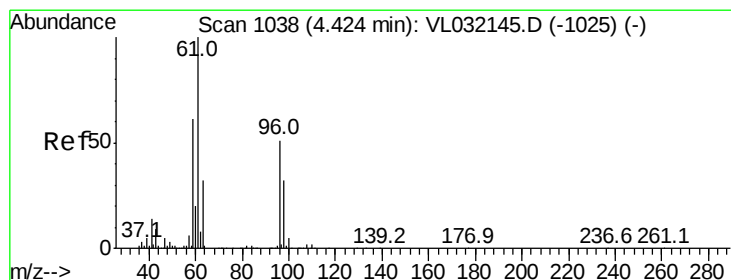
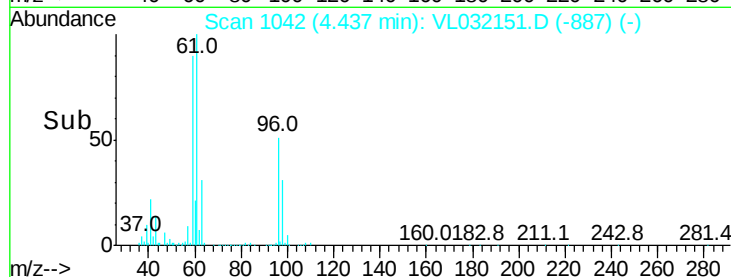
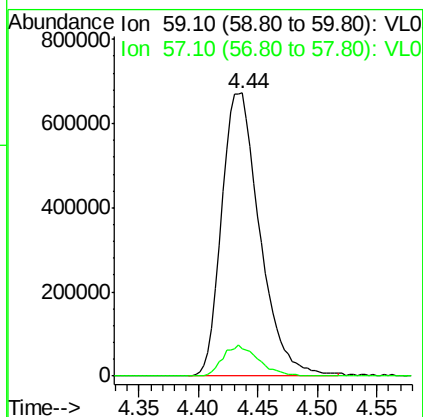
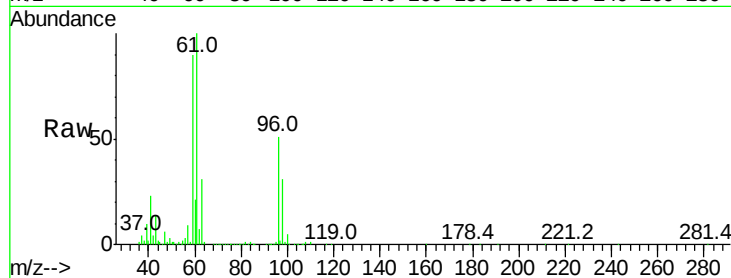




#17
 tert-Butyl alcohol
 Concen: 11.761 ppbv
 RT: 4.44 min Scan# 1042
 Delta R.T. -0.00 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

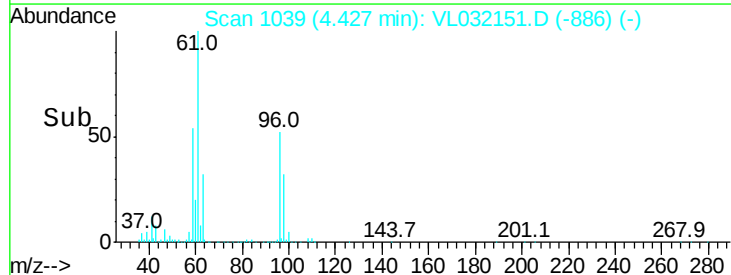
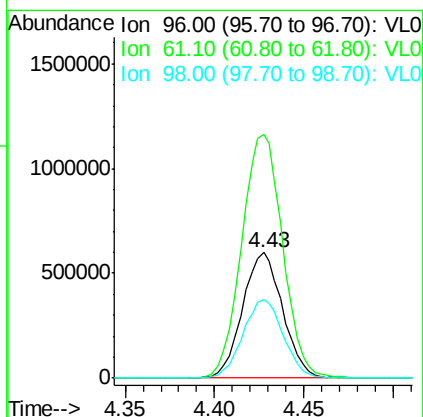
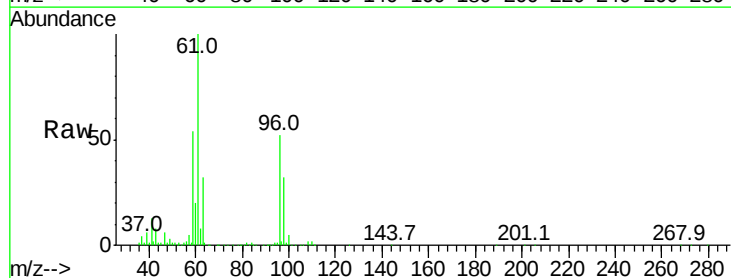
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

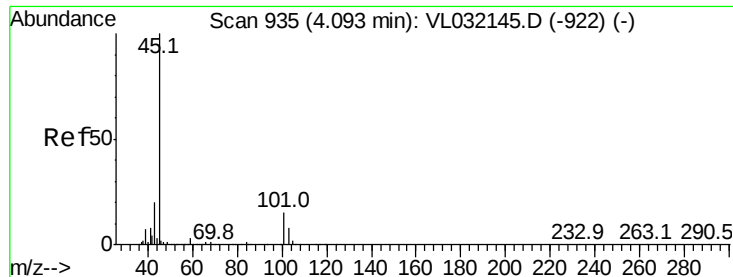
Tgt Ion: 59 Resp: 1495996
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.2 12.2



#18
 1,1-Dichloroethene
 Concen: 12.844 ppbv
 RT: 4.43 min Scan# 1039
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion: 96 Resp: 939116
 Ion Ratio Lower Upper
 96 100
 61 193.4 154.1 231.1
 98 62.3 50.3 75.5





#19

Isopropyl Alcohol

Concen: 11.299 ppbv

RT: 4.10 min Scan# 936

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

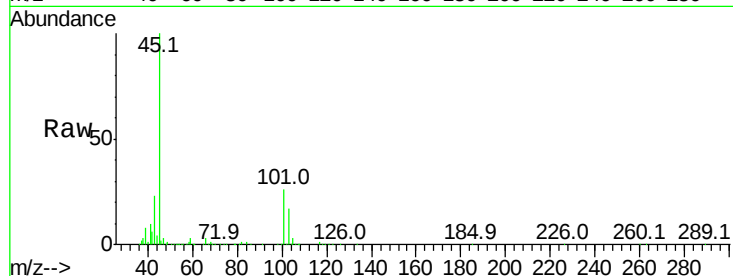
VSTDIC015

Tgt Ion: 45 Resp: 1876208

Ion Ratio Lower Upper

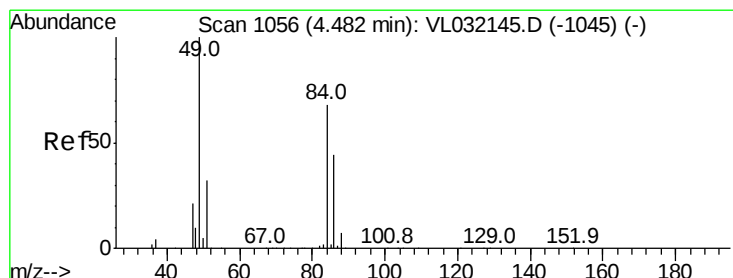
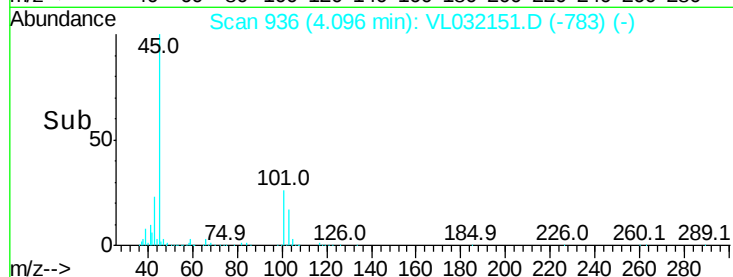
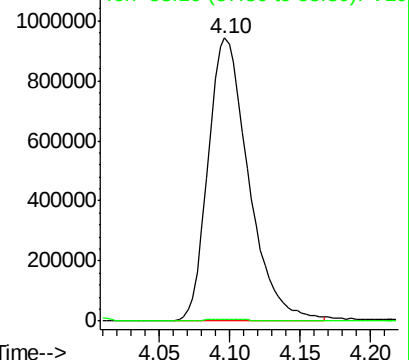
45 100

58 33.4 29.4 44.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 11.633 ppbv

RT: 4.49 min Scan# 1057

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Tgt Ion: 84 Resp: 831285

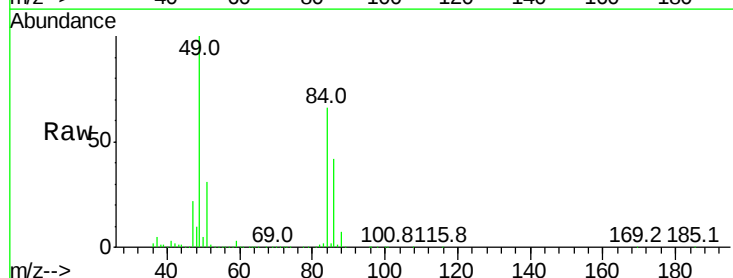
Ion Ratio Lower Upper

84 100

49 149.6 119.6 179.4

51 46.8 36.3 54.5

86 62.5 49.7 74.5

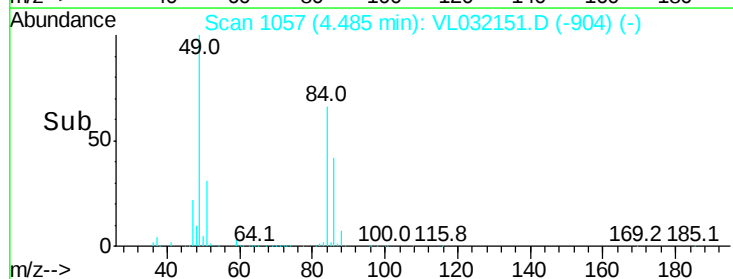
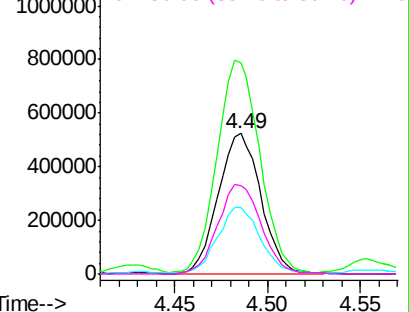


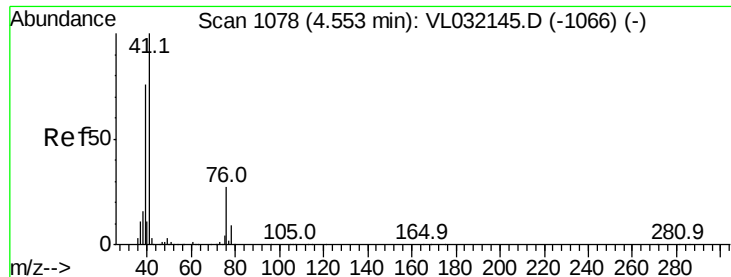
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



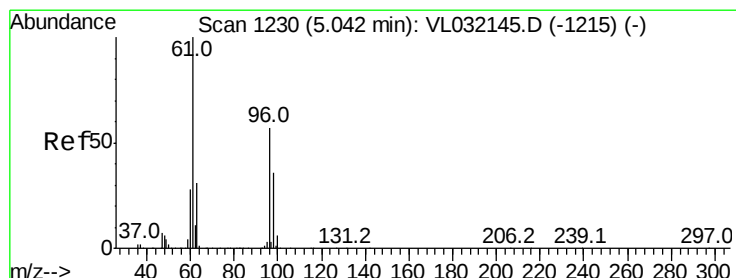
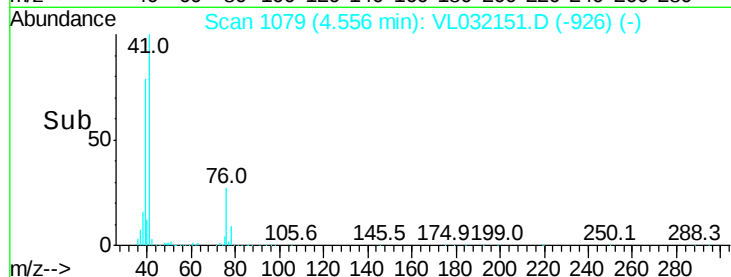
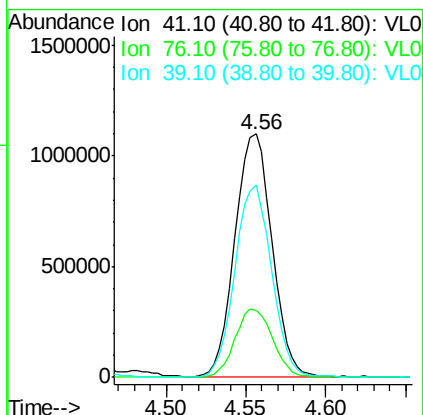
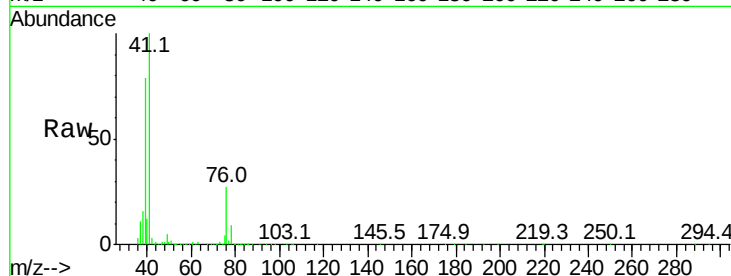


#21
 Allyl Chloride
 Concen: 13.117 ppbv
 RT: 4.56 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 41 Resp: 1722018

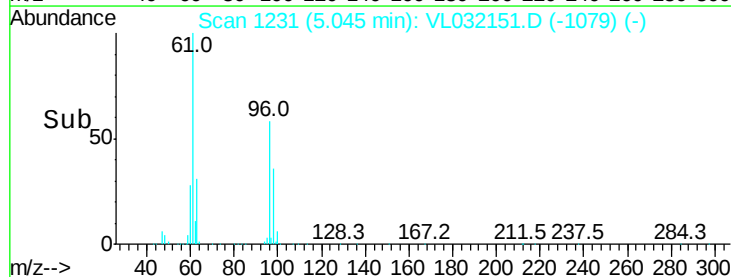
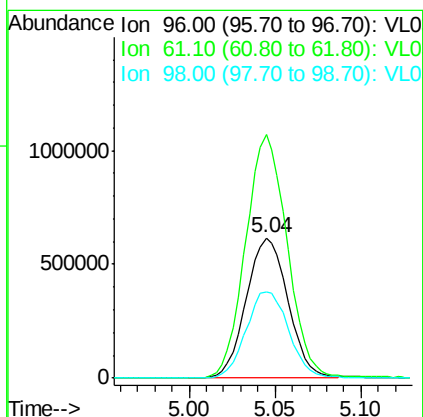
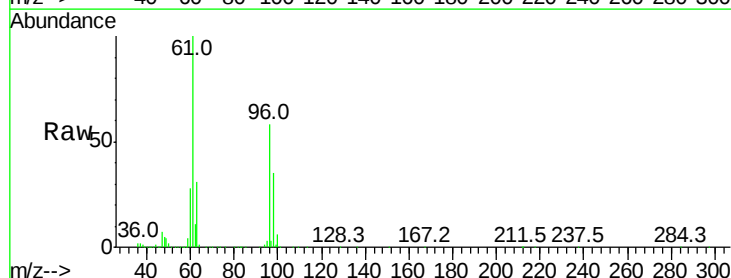
Ion	Ratio	Lower	Upper
41	100		
76	28.8	22.5	33.7
39	78.8	60.5	90.7

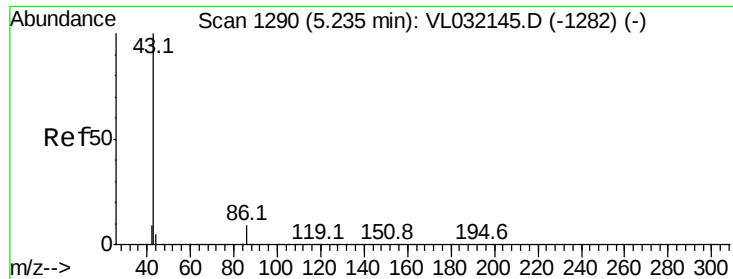


#22
 trans-1,2-Dichloroethene
 Concen: 13.931 ppbv
 RT: 5.04 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion: 96 Resp: 1036673

Ion	Ratio	Lower	Upper
96	100		
61	173.8	135.2	202.8
98	61.3	49.7	74.5





#23

Vinyl Acetate

Concen: 14.050 ppbv

RT: 5.24 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 4524003

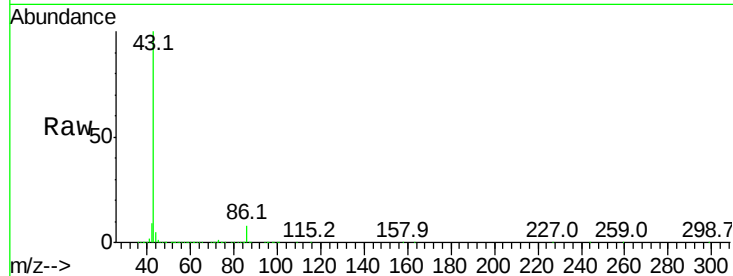
Ion Ratio Lower Upper

43 100

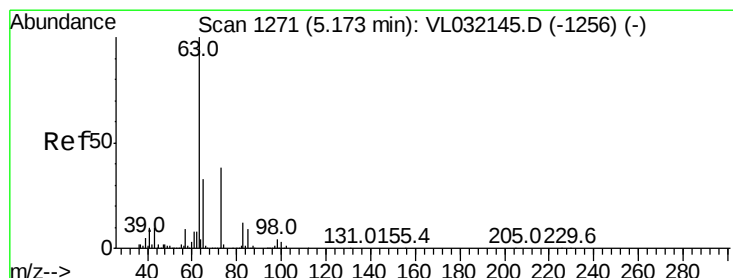
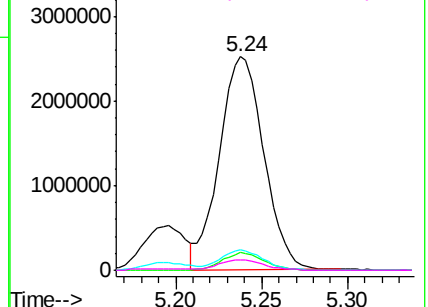
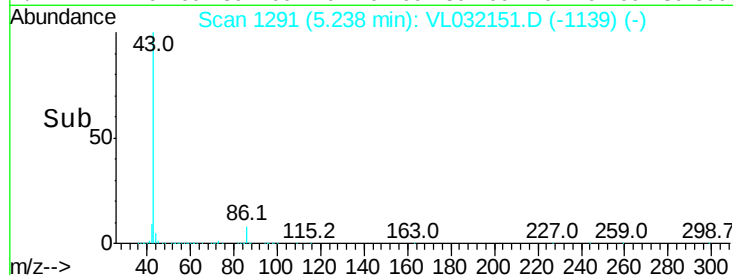
86 8.4 6.2 9.4

42 9.5 6.9 10.3

44 4.8 3.8 5.8



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: 11.450 ppbv

RT: 5.18 min Scan# 1272

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

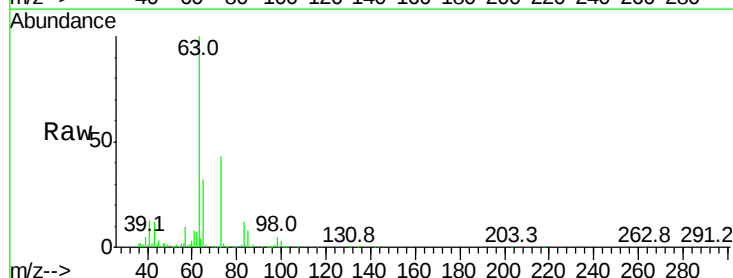
Tgt Ion: 63 Resp: 2774827

Ion Ratio Lower Upper

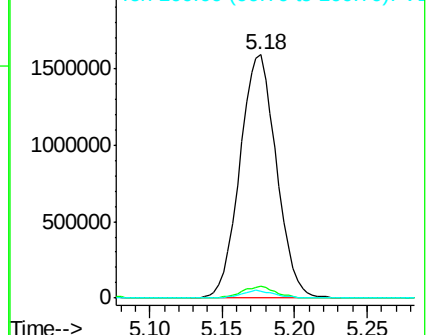
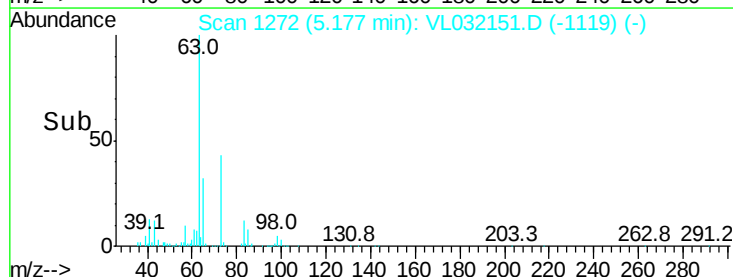
63 100

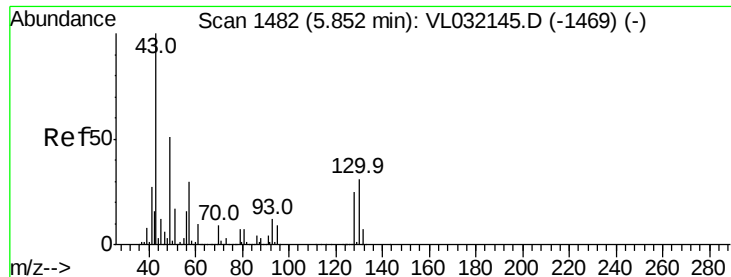
98 4.6 2.4 7.2

100 2.8 1.7 5.0



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



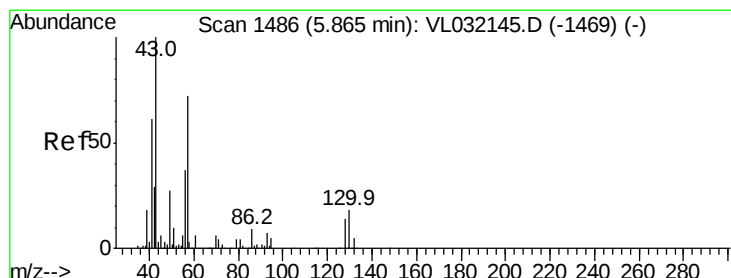
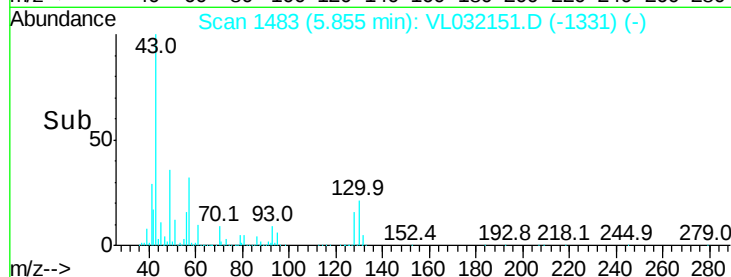
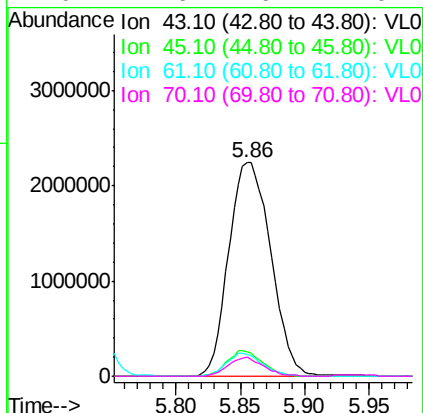
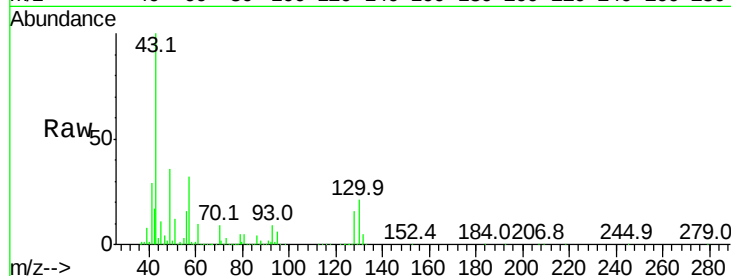


#25
Ethyl Acetate
Concen: 10.939 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 5075165

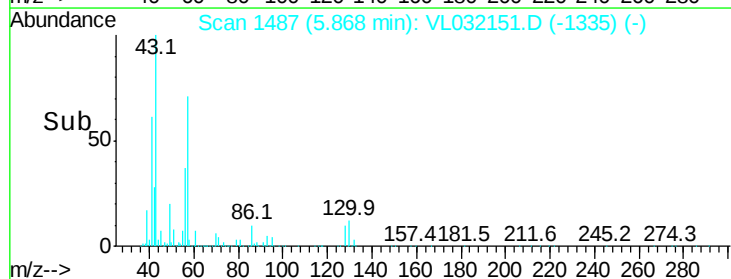
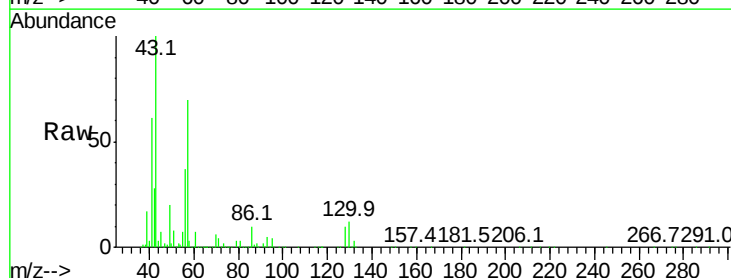
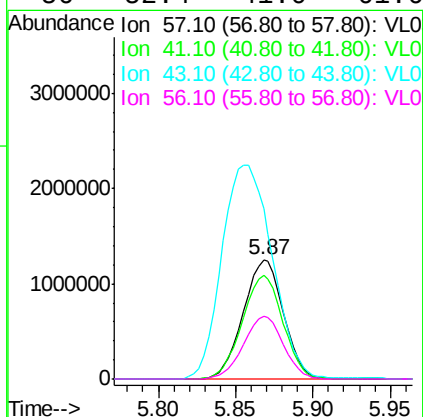
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.8	11.8
61	9.3	7.4	11.0
70	7.6	6.1	9.1

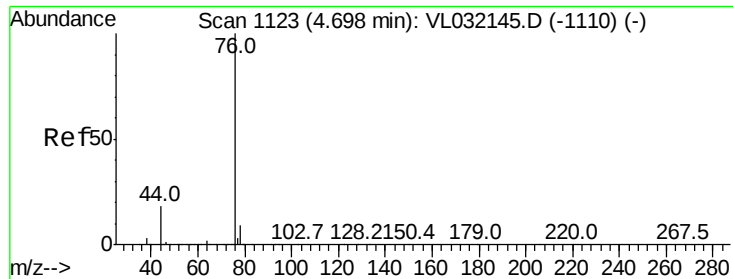


#26
Hexane
Concen: 11.053 ppbv
RT: 5.87 min Scan# 1487
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion: 57 Resp: 2273245

Ion	Ratio	Lower	Upper
57	100		
41	87.6	68.6	103.0
43	224.2	168.6	252.8
56	52.4	41.0	61.6





#27

Carbon Disulfide

Concen: 12.058 ppbv

RT: 4.70 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

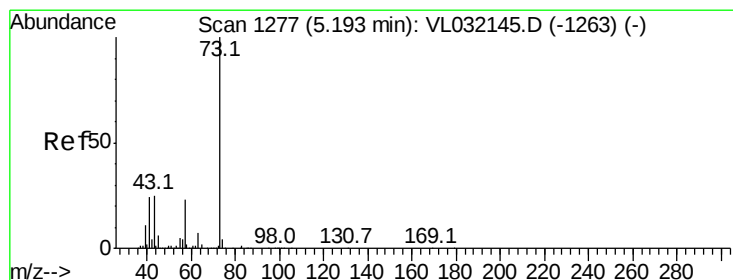
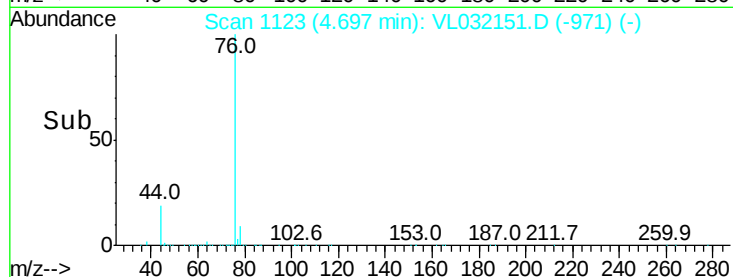
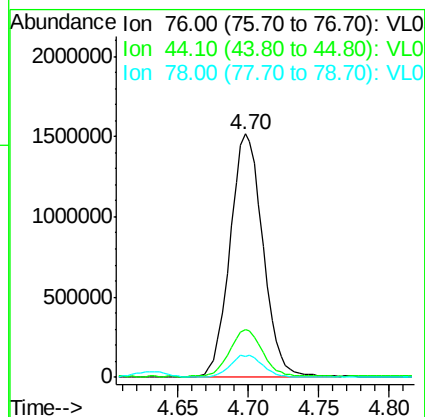
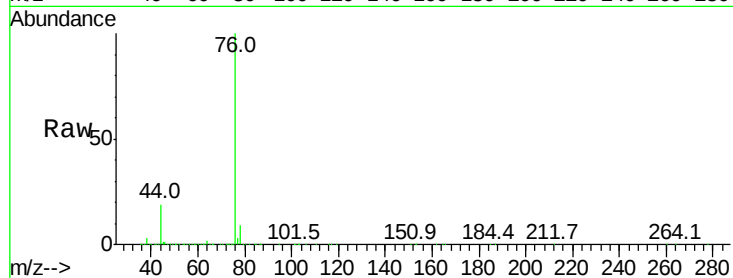
Tgt Ion: 76 Resp: 2479439

Ion Ratio Lower Upper

76 100

44 19.3 15.1 22.7

78 9.3 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 15.071 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032151.D

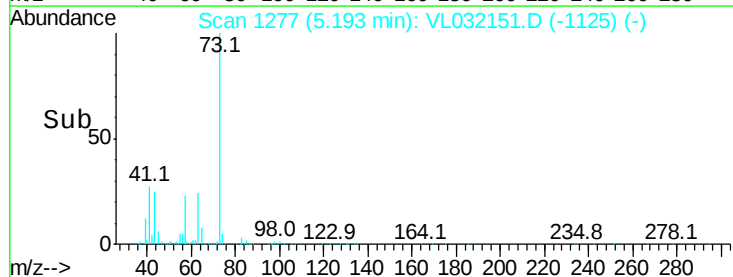
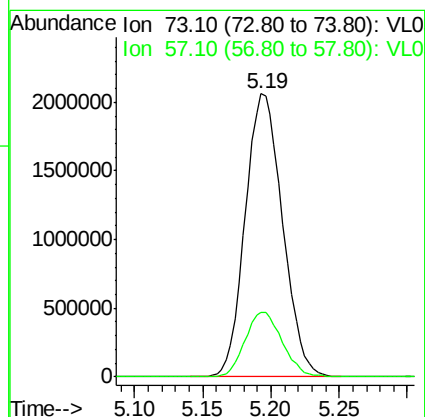
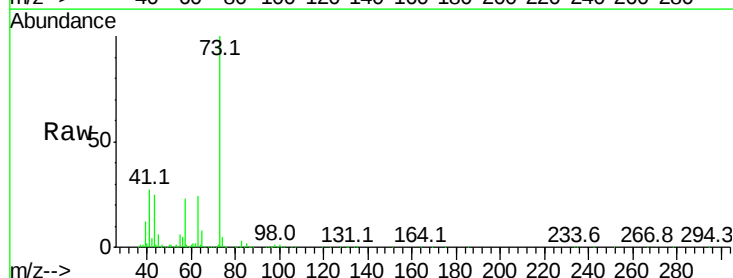
Acq: 29 Jun 2018 21:55

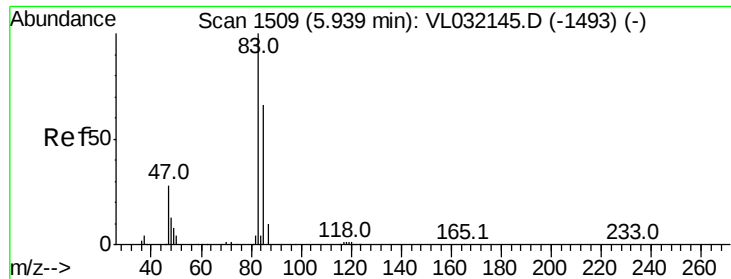
Tgt Ion: 73 Resp: 3920528

Ion Ratio Lower Upper

73 100

57 23.1 18.6 27.8





#29

Chloroform

Concen: 13.002 ppbv

RT: 5.94 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

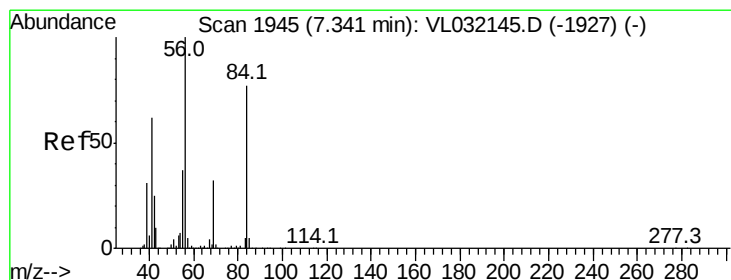
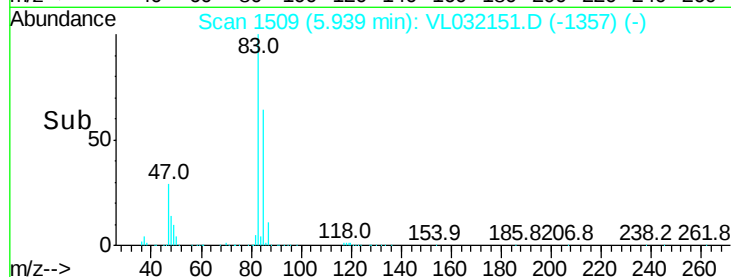
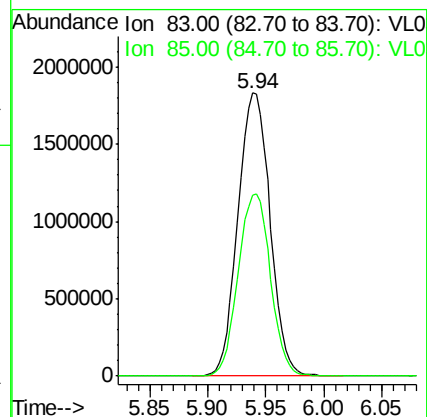
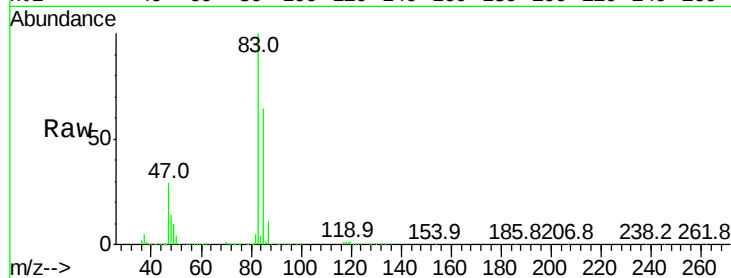
VSTDIC015

Tgt Ion: 83 Resp: 3530125

Ion Ratio Lower Upper

83 100

85 63.8 51.6 77.4



#30

Cyclohexane

Concen: 13.446 ppbv

RT: 7.34 min Scan# 1946

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

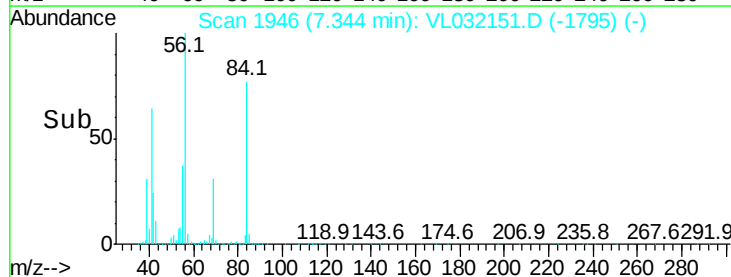
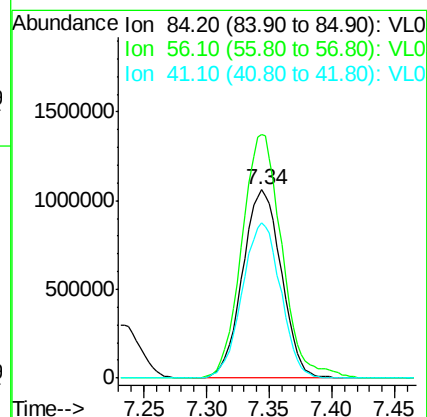
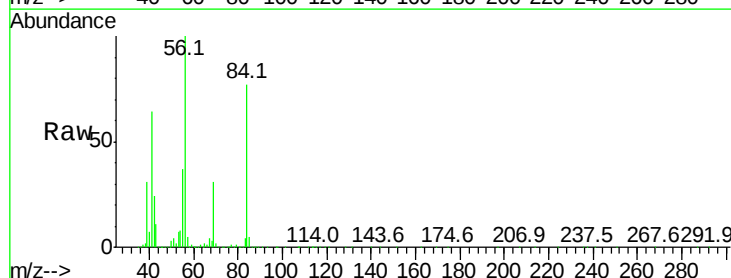
Tgt Ion: 84 Resp: 2277316

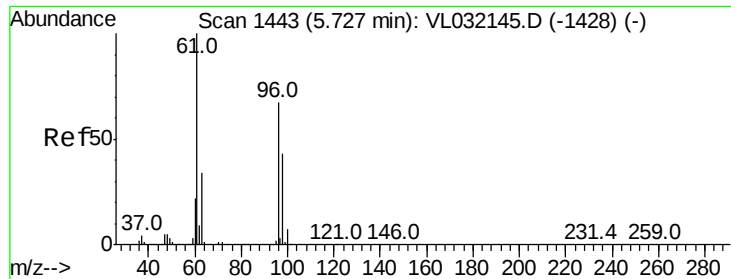
Ion Ratio Lower Upper

84 100

56 133.9 109.1 163.7

41 81.9 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 13.484 ppbv

RT: 5.73 min Scan# 1444

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

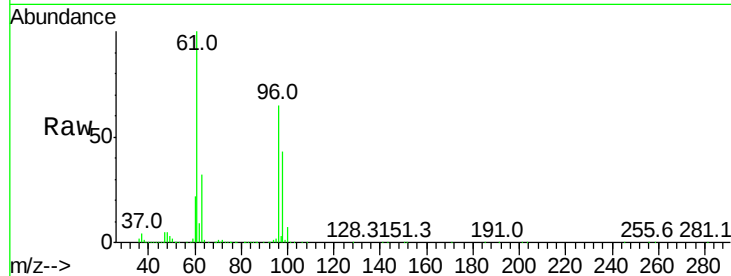
Tgt Ion: 61 Resp: 2468194

Ion Ratio Lower Upper

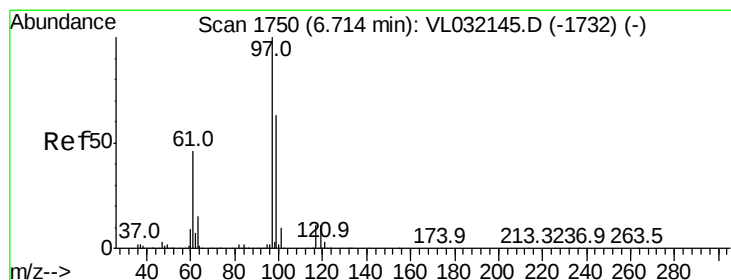
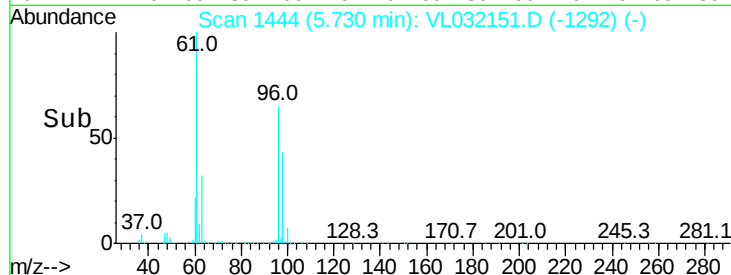
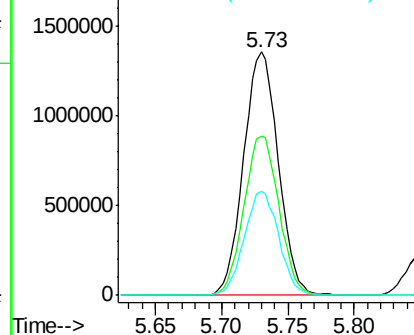
61 100

96 65.2 54.2 81.4

98 42.6 34.6 52.0



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: 12.896 ppbv

RT: 6.71 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

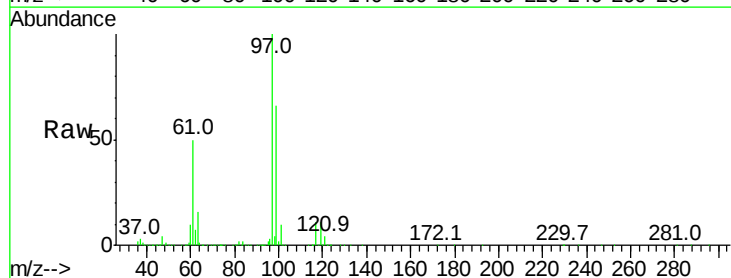
Tgt Ion: 97 Resp: 3650151

Ion Ratio Lower Upper

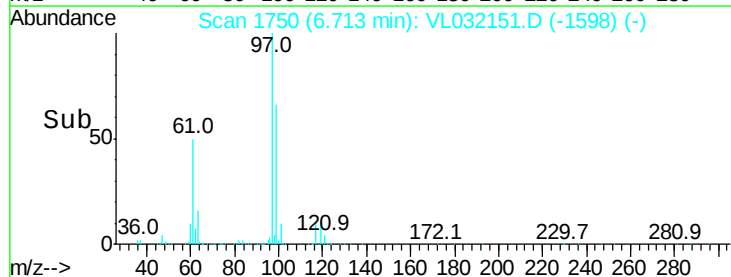
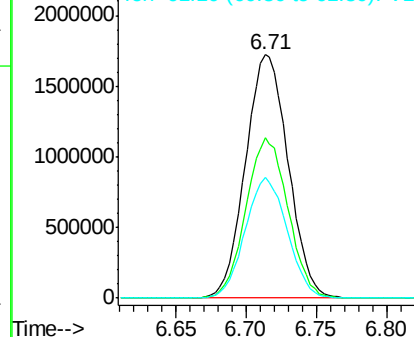
97 100

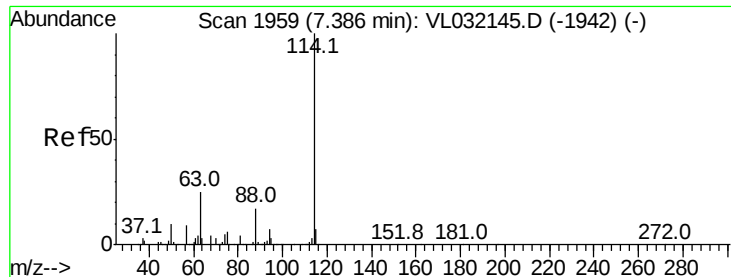
99 65.0 51.3 76.9

61 49.0 38.4 57.6



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

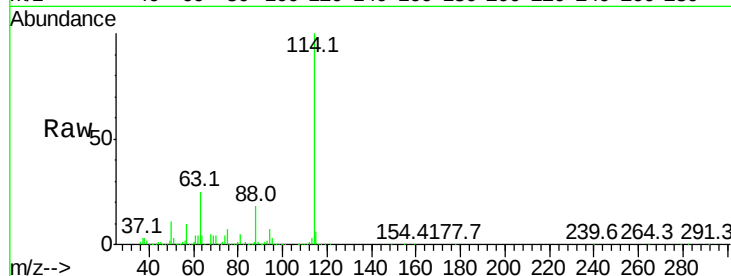




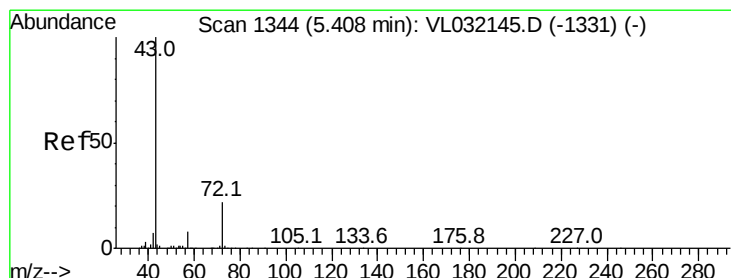
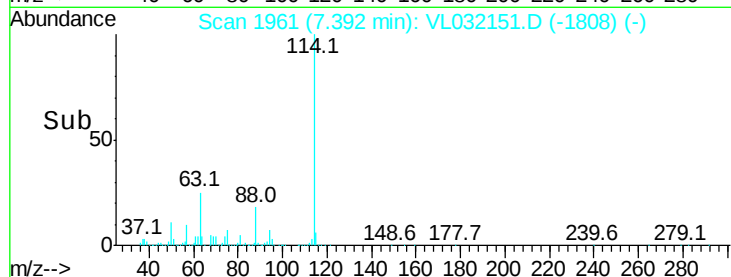
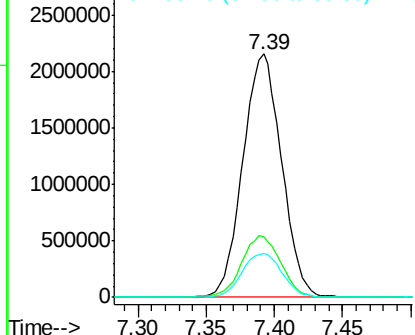
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.39 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 114 Resp: 4242075
 Ion Ratio Lower Upper
 114 100
 63 25.9 19.1 28.7
 88 18.8 13.9 20.9

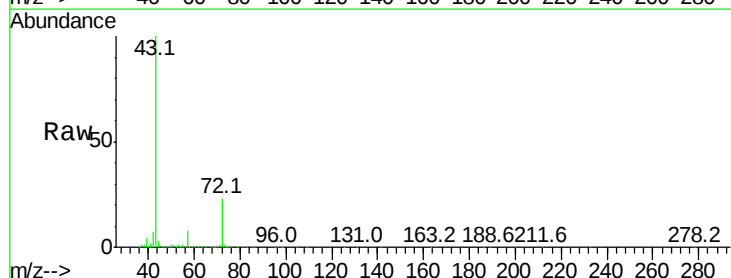


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

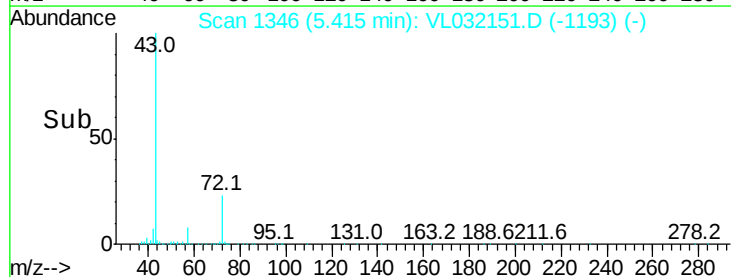
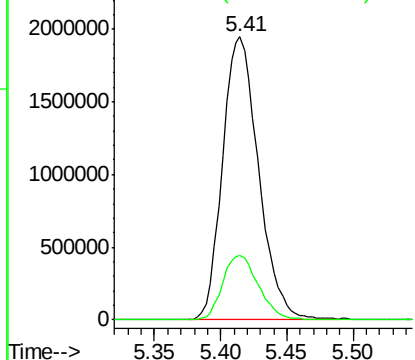


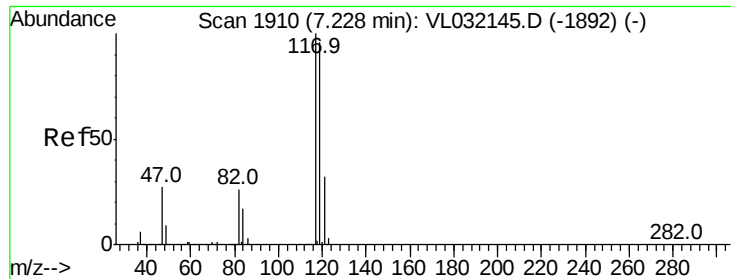
#34
 2-Butanone
 Concen: 10.561 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion: 43 Resp: 3636889
 Ion Ratio Lower Upper
 43 100
 72 23.2 18.4 27.6



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





#35

Carbon Tetrachloride

Concen: 12.884 ppbv

RT: 7.23 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

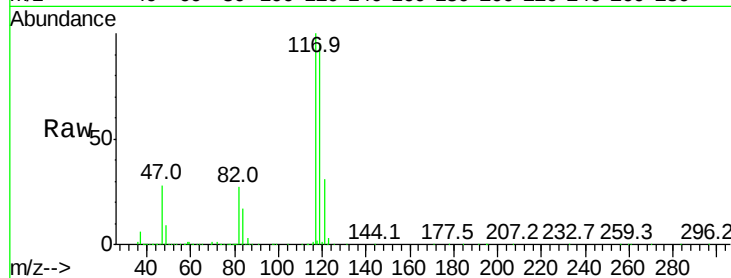
Tgt Ion:117 Resp: 3793204

Ion Ratio Lower Upper

117 100

119 94.6 74.8 112.2

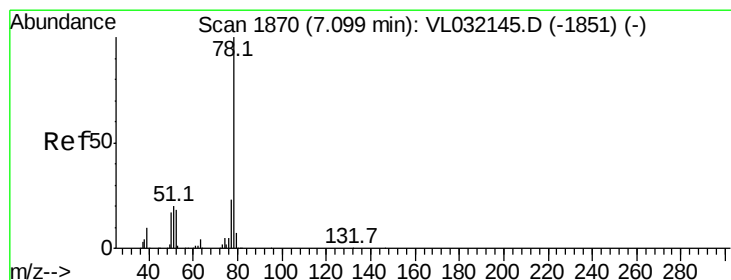
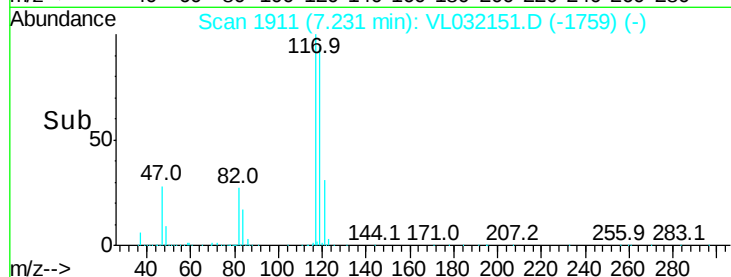
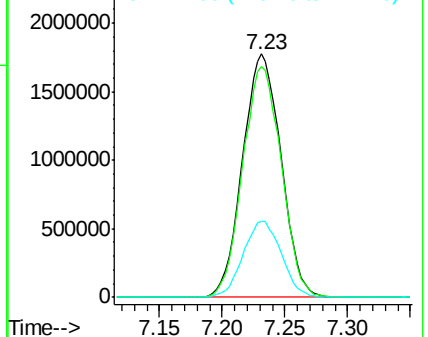
121 31.2 24.0 36.0



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: 11.827 ppbv

RT: 7.10 min Scan# 1871

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

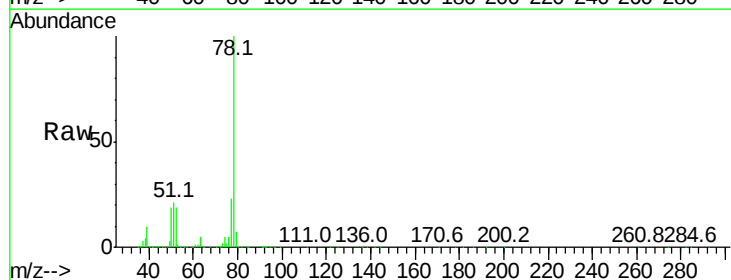
Tgt Ion: 78 Resp: 5439646

Ion Ratio Lower Upper

78 100

77 23.5 17.7 26.5

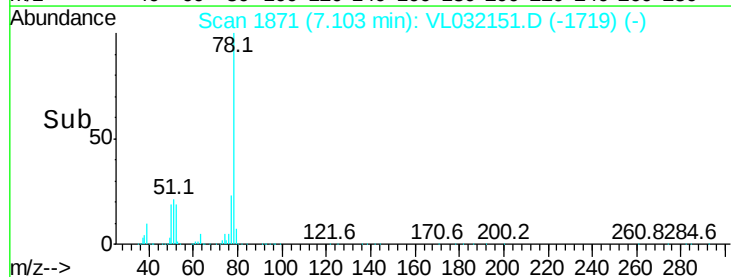
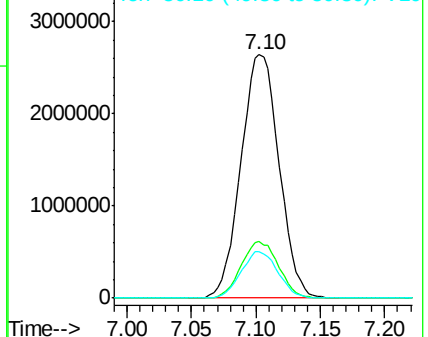
50 18.8 14.0 21.0

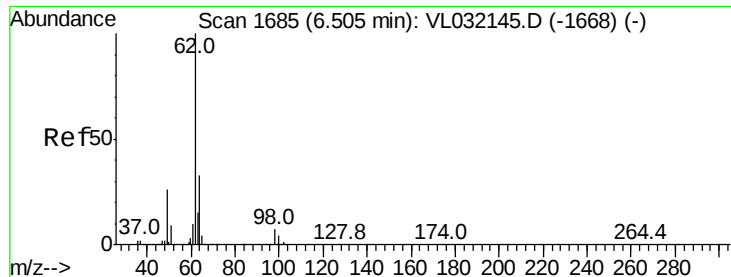


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

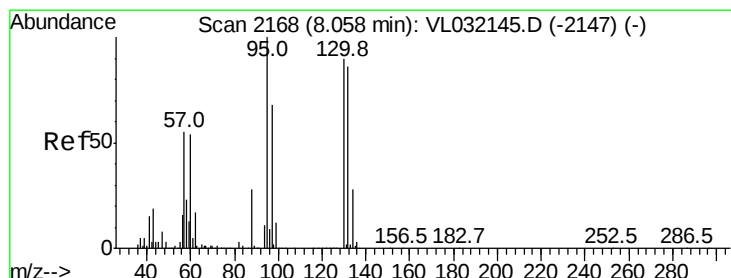
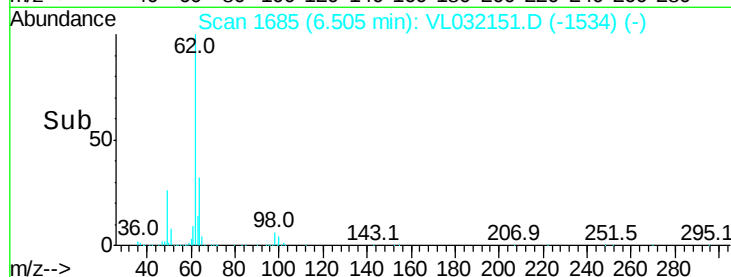
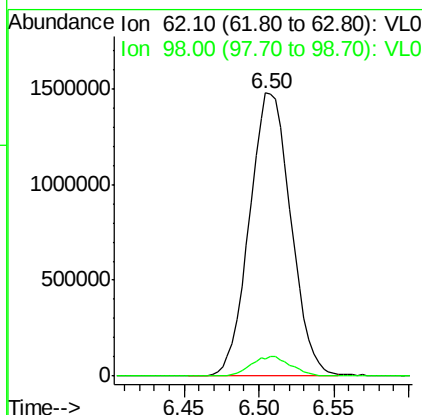
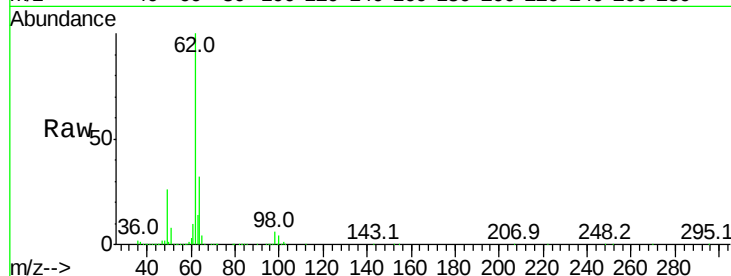




#37
 1,2-Dichloroethane
 Concen: 12.053 ppbv
 RT: 6.50 min Scan# 1685
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

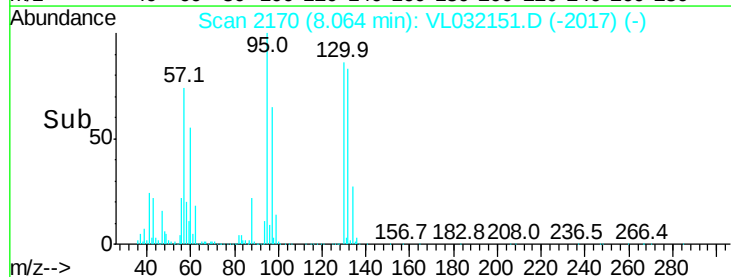
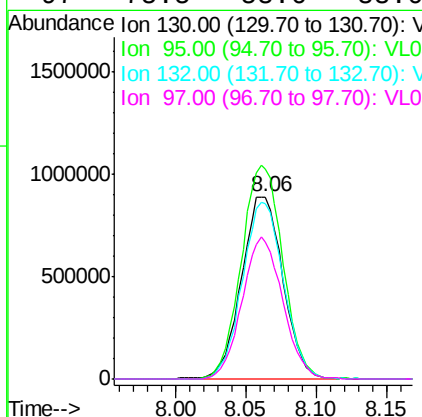
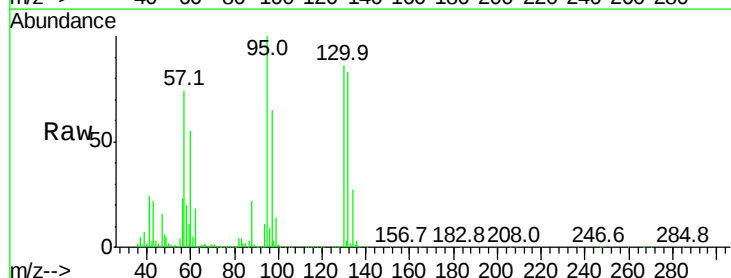
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

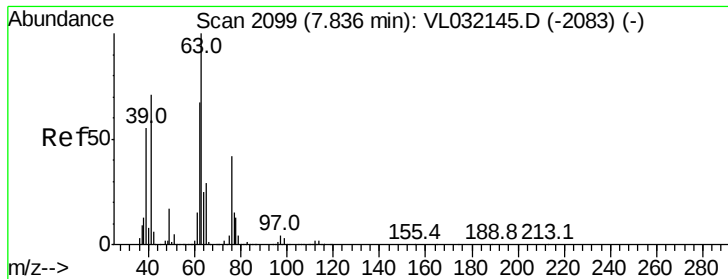
Tgt Ion: 62 Resp: 2850968
 Ion Ratio Lower Upper
 62 100
 98 6.8 5.8 8.6



#38
 Trichloroethene
 Concen: 10.241 ppbv
 RT: 8.06 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion: 130 Resp: 1816187
 Ion Ratio Lower Upper
 130 100
 95 116.0 88.1 132.1
 132 96.3 74.6 112.0
 97 75.5 58.6 88.0





#39

1,2-Dichloropropane

Concen: 12.542 ppbv

RT: 7.84 min Scan# 2100

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

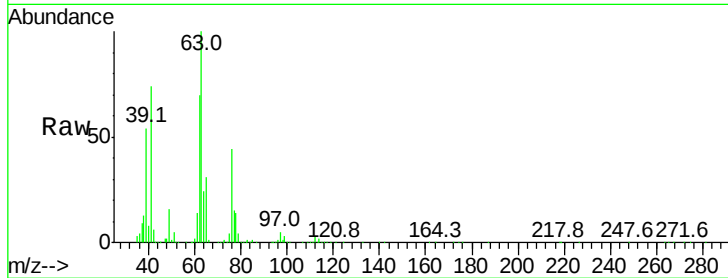
Tgt Ion: 63 Resp: 2118168

Ion Ratio Lower Upper

63 100

41 73.4 53.3 79.9

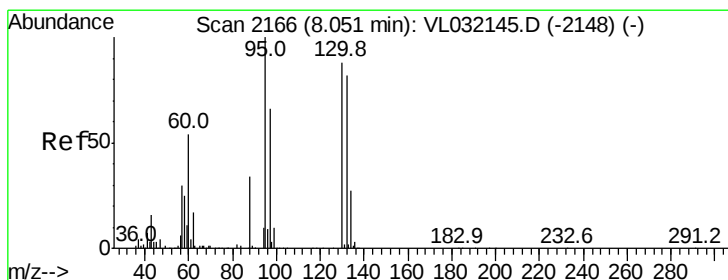
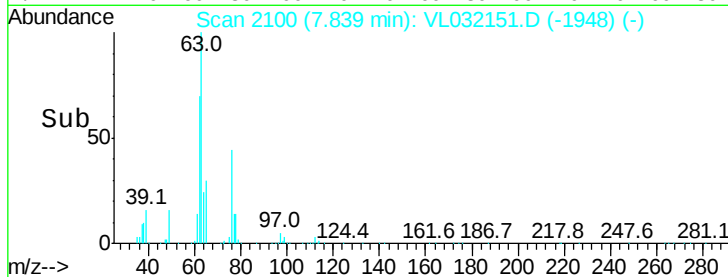
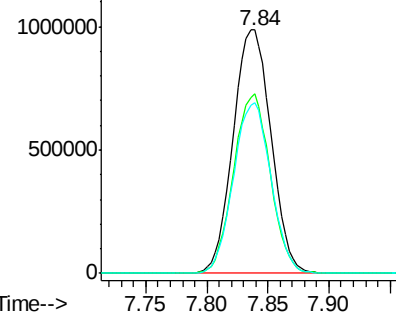
62 70.1 54.8 82.2



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: 8.739 ppbv

RT: 8.05 min Scan# 2166

Delta R.T. -0.02 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Tgt Ion: 88 Resp: 687842

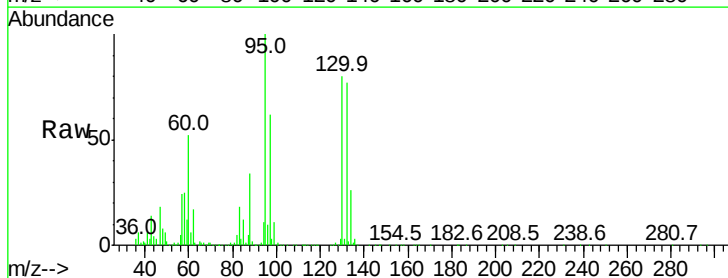
Ion Ratio Lower Upper

88 100

58 139.5 47.4 71.0#

43 283.2 0.0 0.0#

57 1252.5 0.0 0.0#

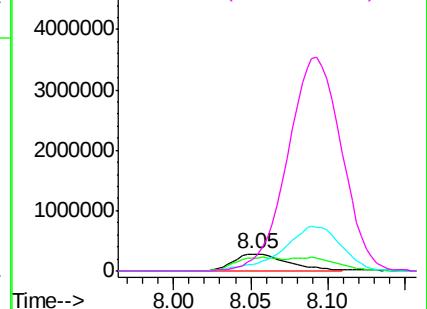
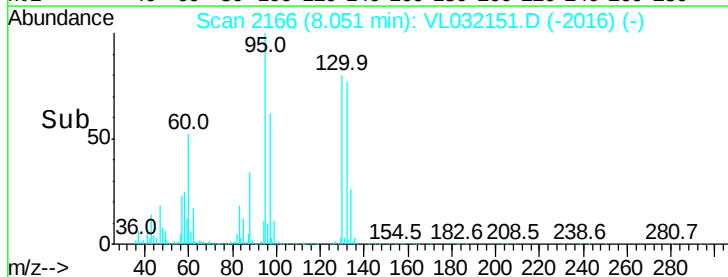


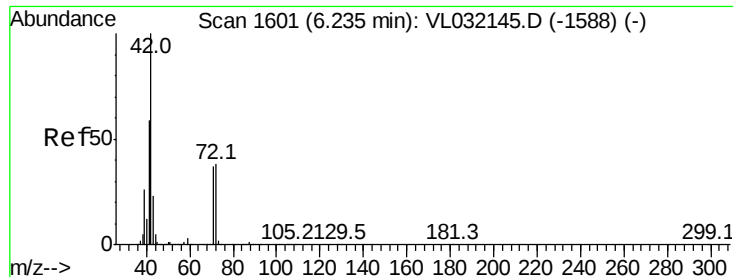
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.459 ppbv

RT: 6.24 min Scan# 1602

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

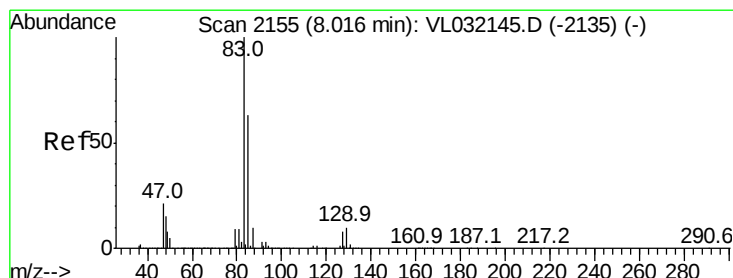
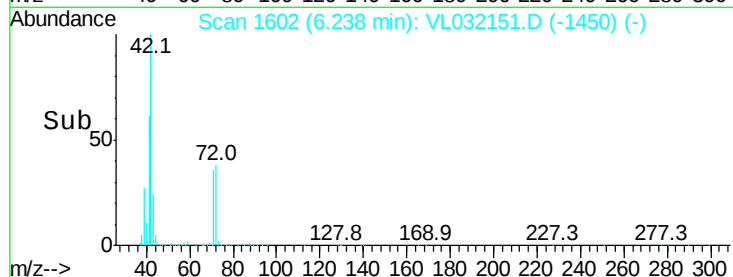
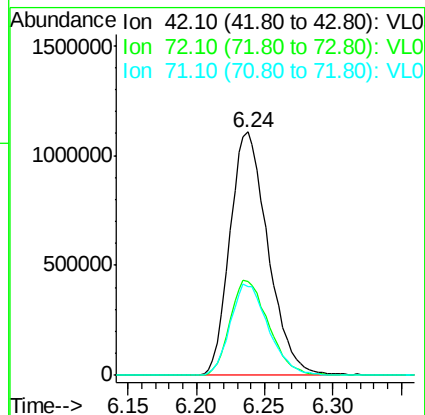
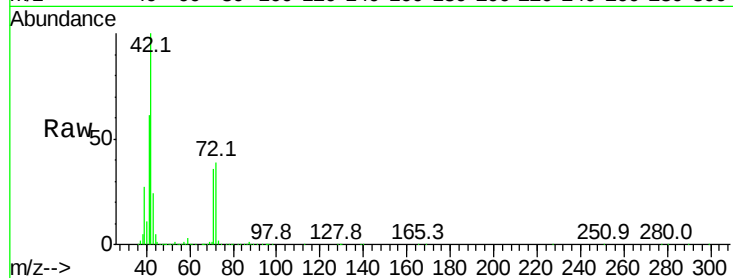
Tgt Ion: 42 Resp: 2151107

Ion Ratio Lower Upper

42 100

72 39.6 31.1 46.7

71 37.6 29.5 44.3



#42

Bromodichloromethane

Concen: 13.201 ppbv

RT: 8.02 min Scan# 2156

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

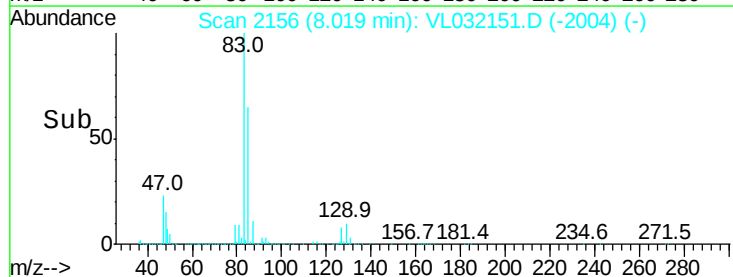
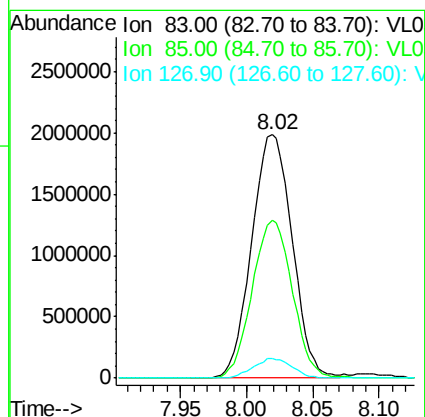
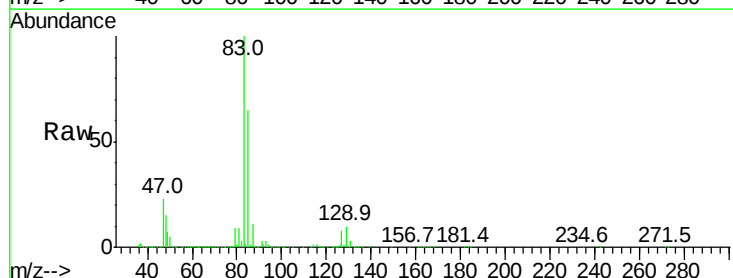
Tgt Ion: 83 Resp: 4223275

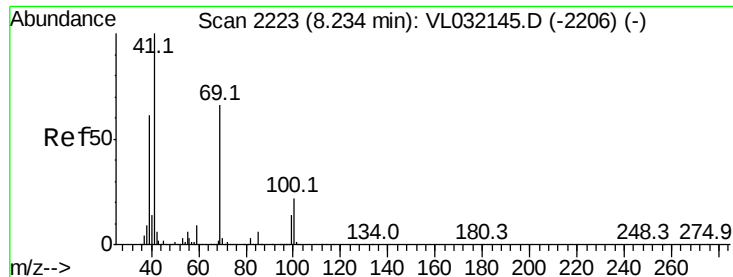
Ion Ratio Lower Upper

83 100

85 65.0 52.6 79.0

127 8.0 6.5 9.7

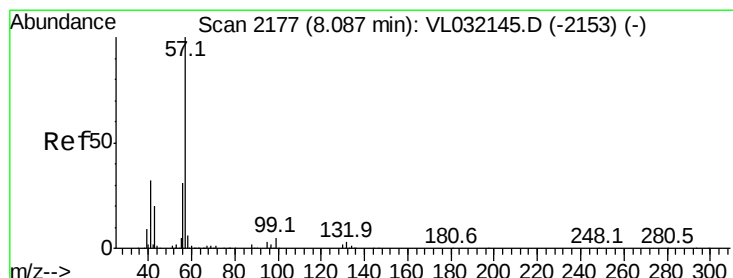
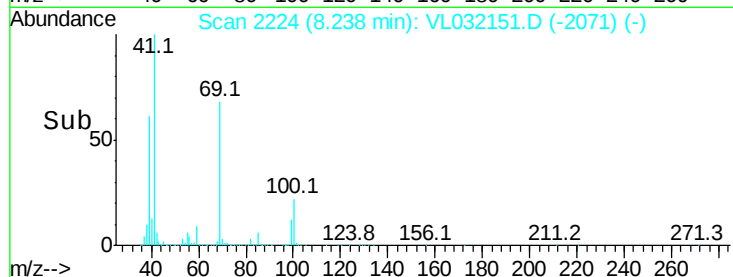
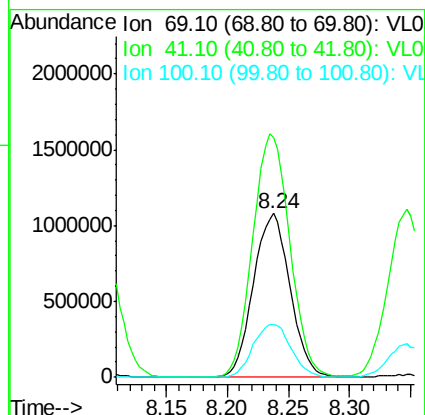
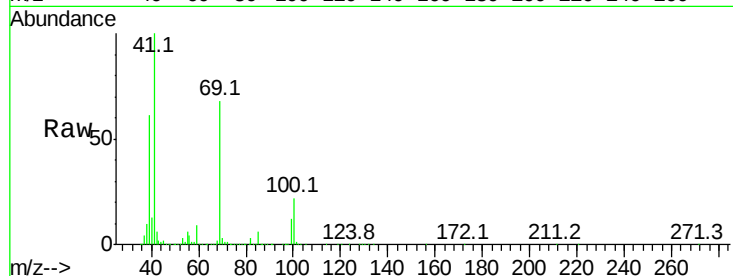




#43
Methyl Methacrylate
Concen: 12.346 ppbv
RT: 8.24 min Scan# 2224
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

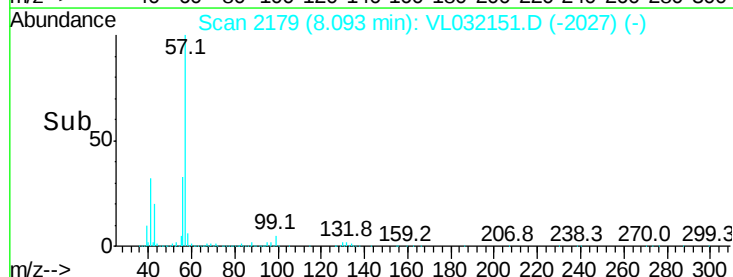
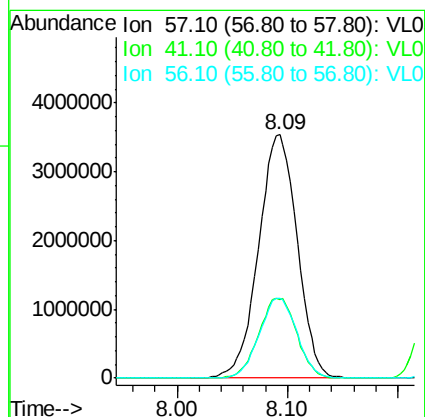
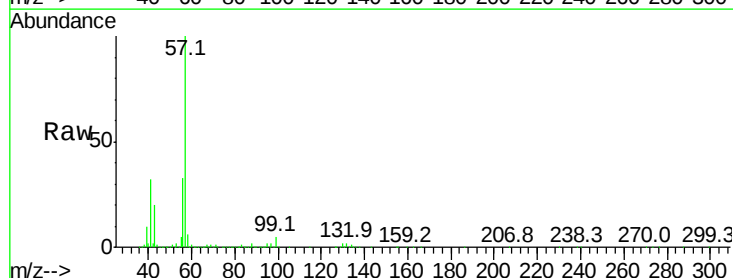
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

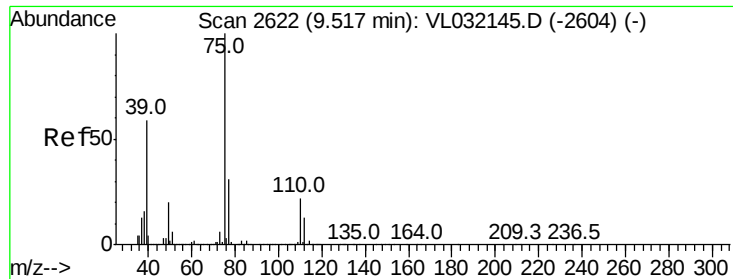
Tgt Ion: 69 Resp: 2246607
Ion Ratio Lower Upper
69 100
41 150.2 118.2 177.4
100 33.6 27.4 41.2



#44
2,2,4-Trimethylpentane
Concen: 11.384 ppbv
RT: 8.09 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion: 57 Resp: 8593676
Ion Ratio Lower Upper
57 100
41 32.2 24.3 36.5
56 31.9 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 13.553 ppbv

RT: 9.52 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

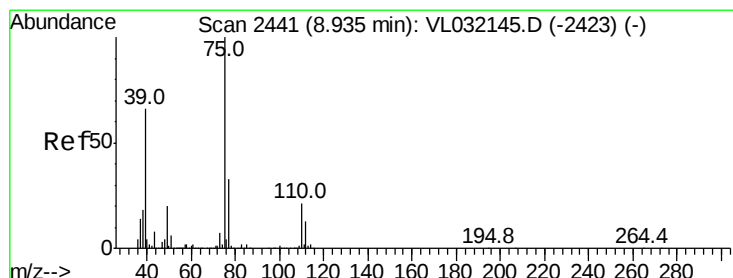
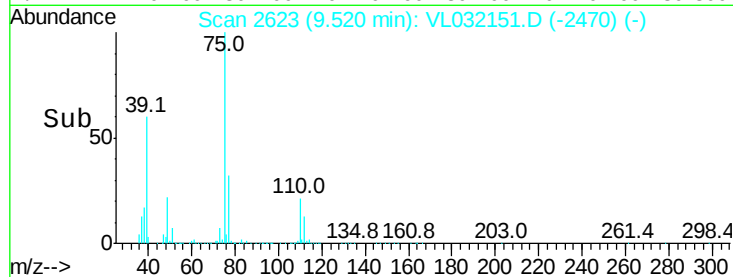
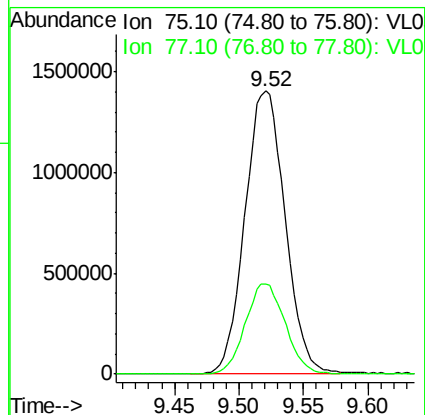
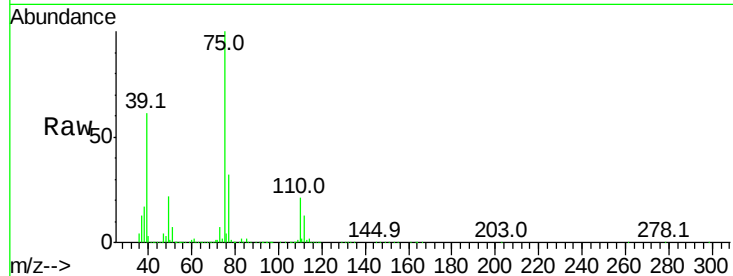
VSTDIC015

Tgt Ion: 75 Resp: 3049917

Ion Ratio Lower Upper

75 100

77 31.8 25.6 38.4



#46

cis-1,3-Dichloropropene

Concen: 12.127 ppbv

RT: 8.94 min Scan# 2442

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

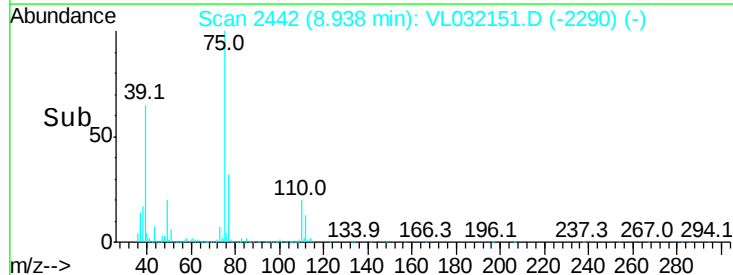
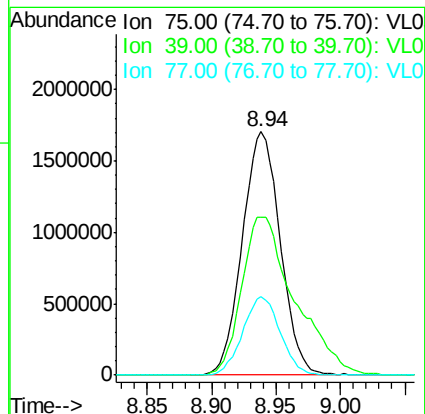
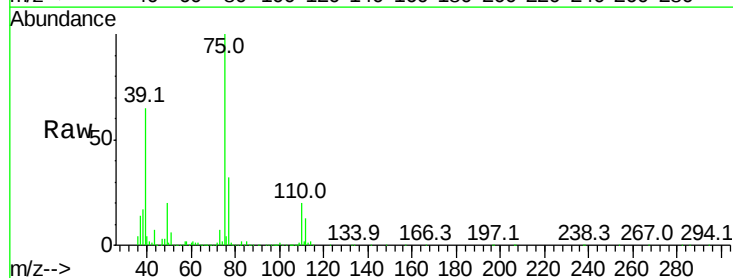
Tgt Ion: 75 Resp: 3493546

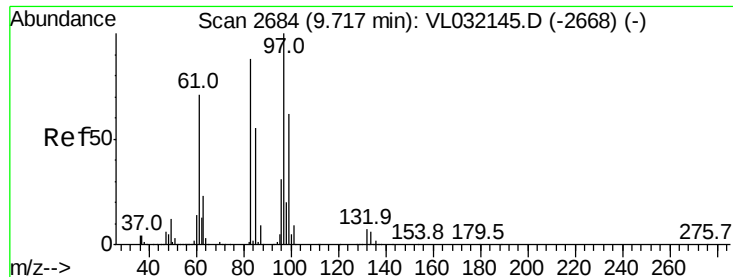
Ion Ratio Lower Upper

75 100

39 64.7 51.9 77.9

77 32.3 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 11.541 ppbv

RT: 9.72 min Scan# 2686

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 2205693

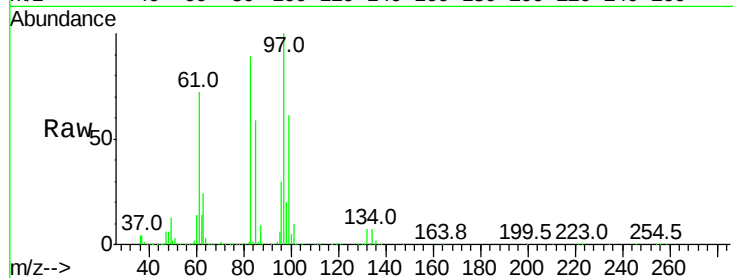
Ion Ratio Lower Upper

97 100

83 88.9 71.0 106.4

85 58.4 44.2 66.4

99 61.0 49.2 73.8

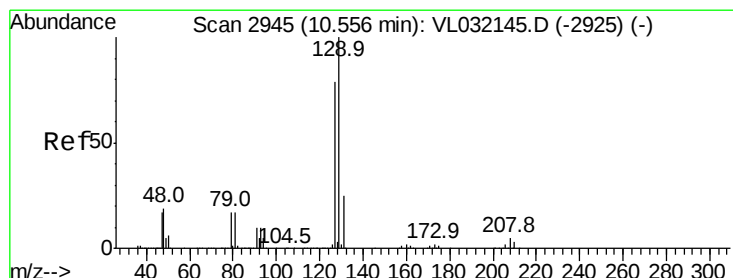
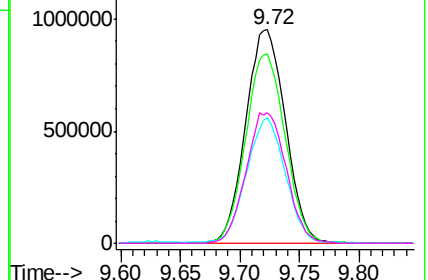
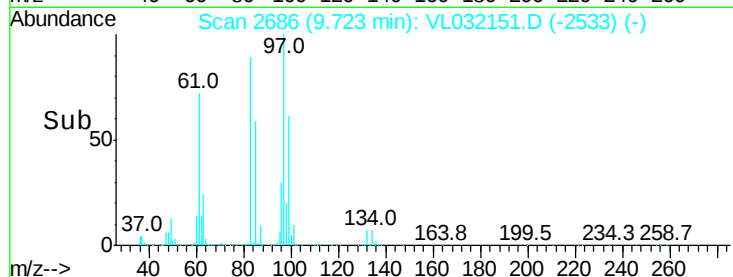


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 12.033 ppbv

RT: 10.56 min Scan# 2946

Delta R.T. -0.01 min

Lab File: VL032151.D

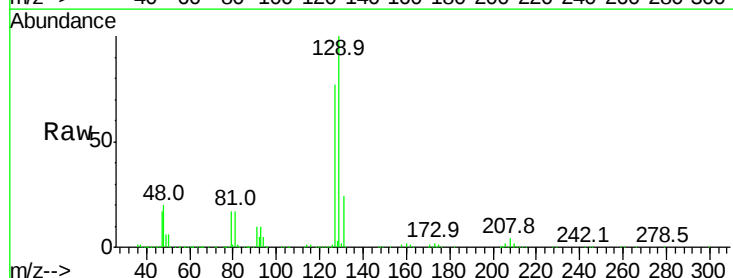
Acq: 29 Jun 2018 21:55

Tgt Ion: 129 Resp: 3442471

Ion Ratio Lower Upper

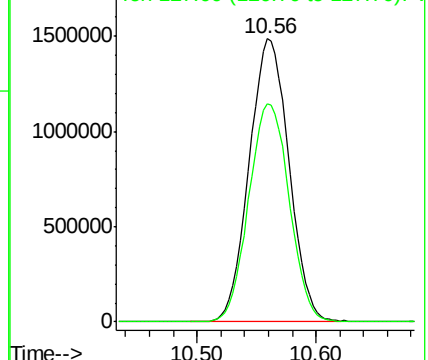
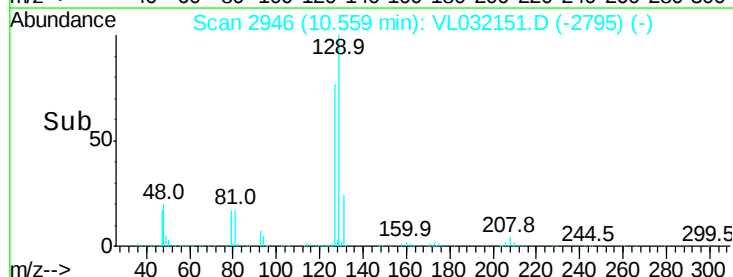
129 100

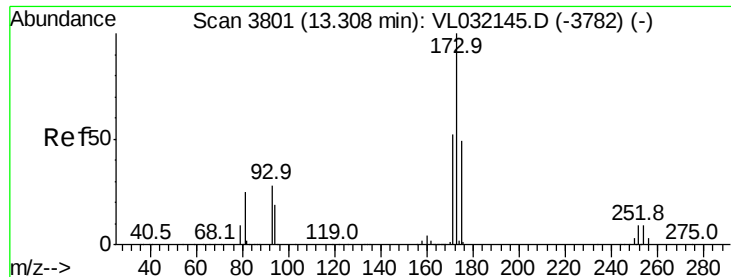
127 78.8 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 12.983 ppbv

RT: 13.32 min Scan# 3804

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

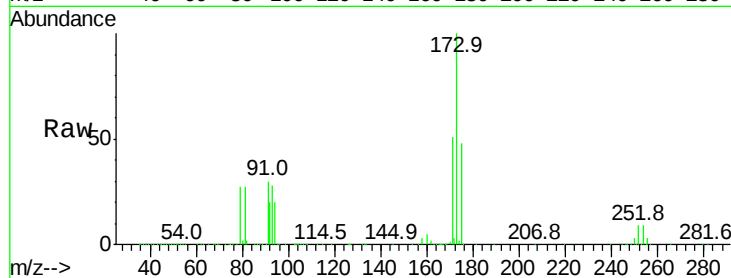
Tgt Ion:173 Resp: 2843851

Ion Ratio Lower Upper

173 100

175 48.6 39.4 59.0

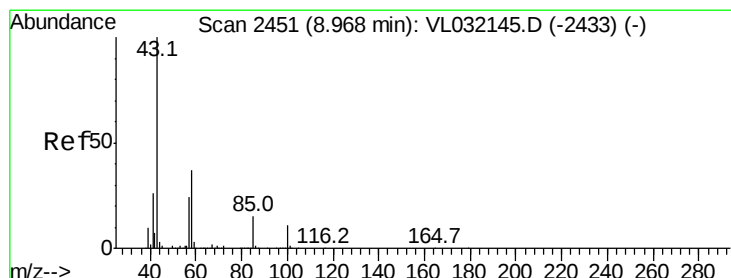
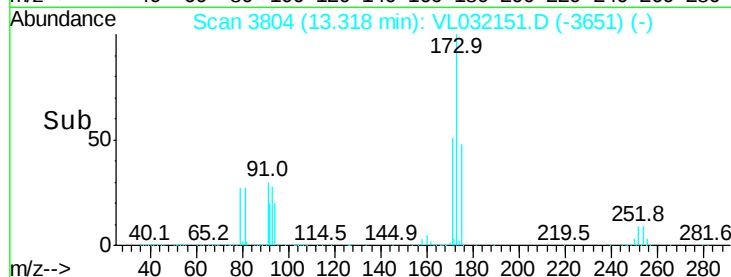
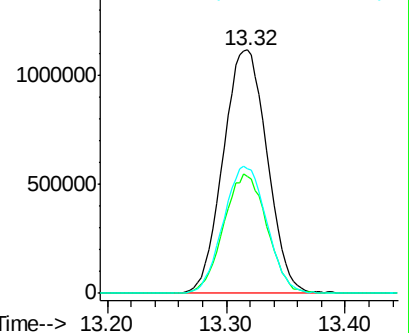
171 51.6 41.8 62.8



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: 10.778 ppbv

RT: 8.97 min Scan# 2452

Delta R.T. -0.01 min

Lab File: VL032151.D

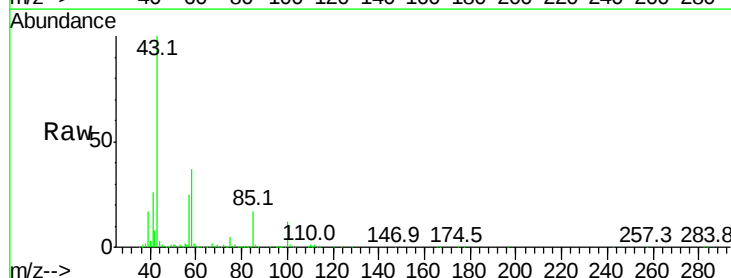
Acq: 29 Jun 2018 21:55

Tgt Ion: 43 Resp: 5755971

Ion Ratio Lower Upper

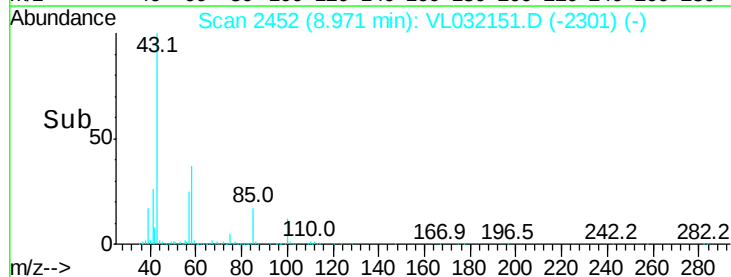
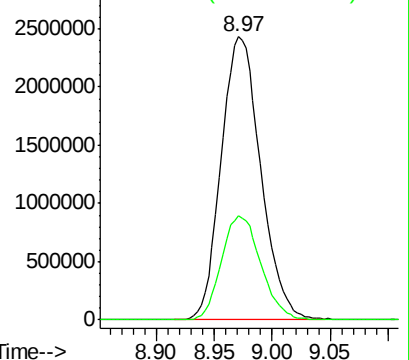
43 100

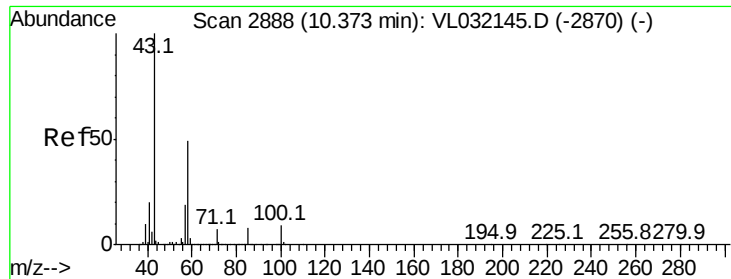
58 36.7 29.8 44.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 8.929 ppbv

RT: 10.38 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

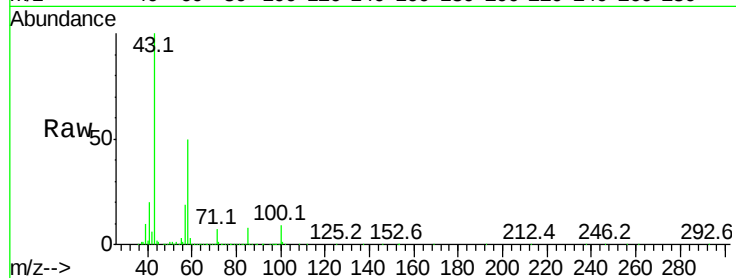
Tgt Ion: 43 Resp: 4746020

Ion Ratio Lower Upper

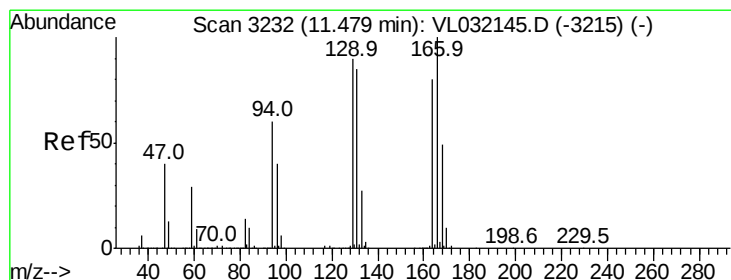
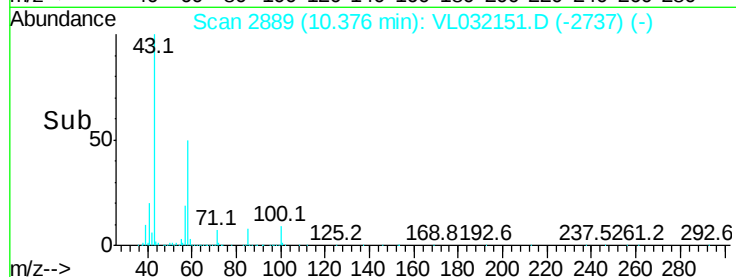
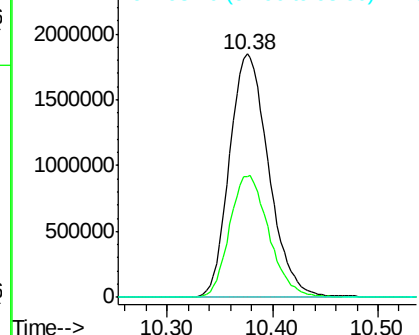
43 100

58 50.5 40.6 60.8

98 0.1 0.1 0.1



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: 9.773 ppbv

RT: 11.48 min Scan# 3233

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Tgt Ion: 164 Resp: 1661507

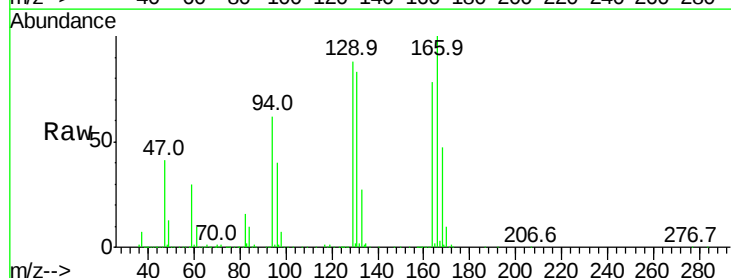
Ion Ratio Lower Upper

164 100

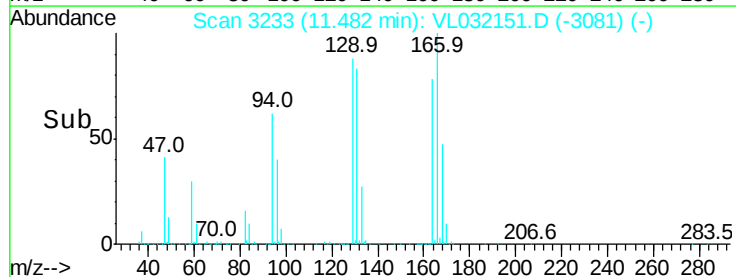
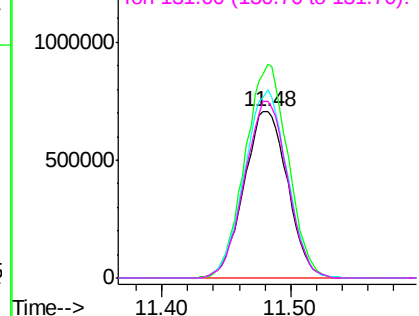
166 128.3 100.6 151.0

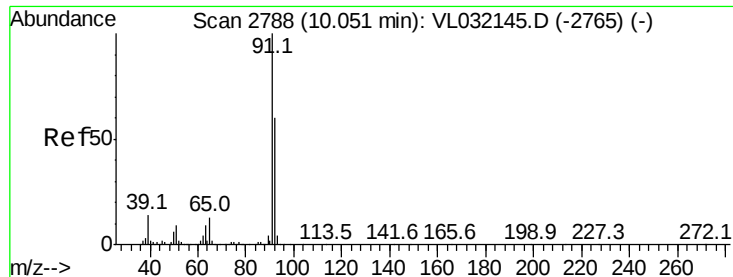
129 113.1 84.0 126.0

131 106.1 82.7 124.1



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: 11.032 ppbv

RT: 10.05 min Scan# 2789

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

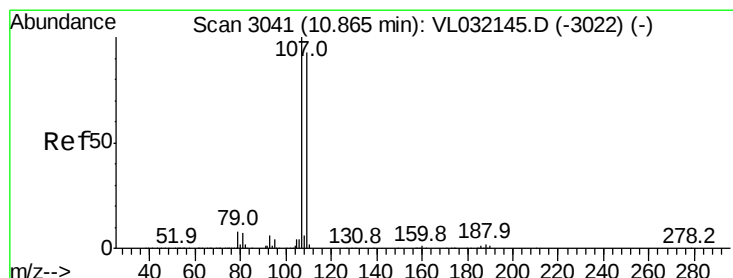
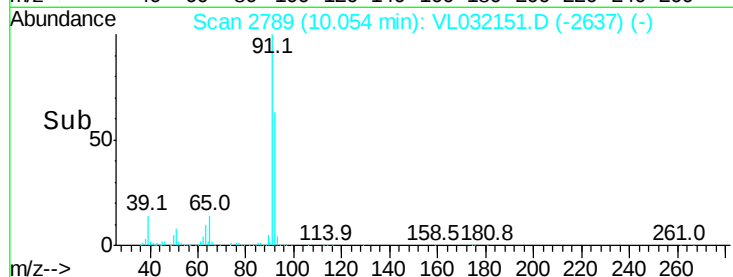
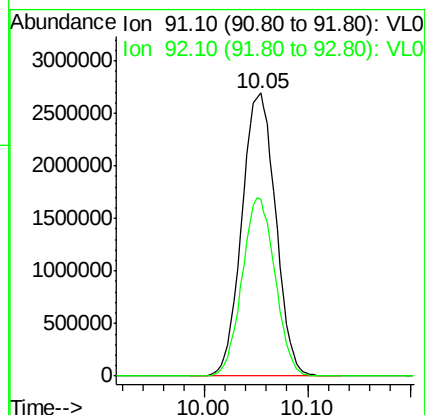
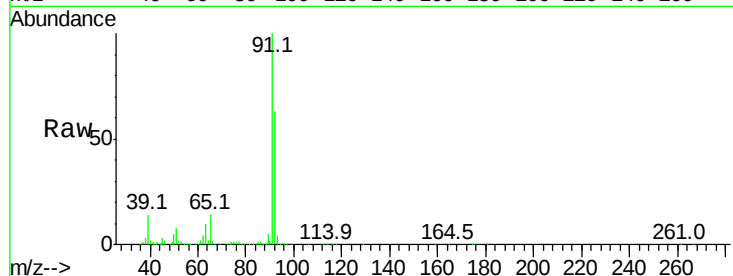
VSTDIC015

Tgt Ion: 91 Resp: 6124854

Ion Ratio Lower Upper

91 100

92 61.6 49.2 73.8



#54

1,2-Dibromoethane

Concen: 11.581 ppbv

RT: 10.87 min Scan# 3043

Delta R.T. -0.01 min

Lab File: VL032151.D

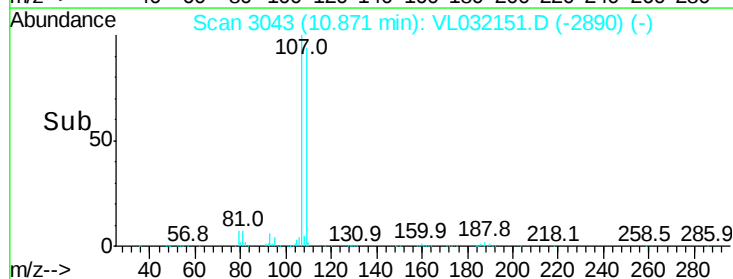
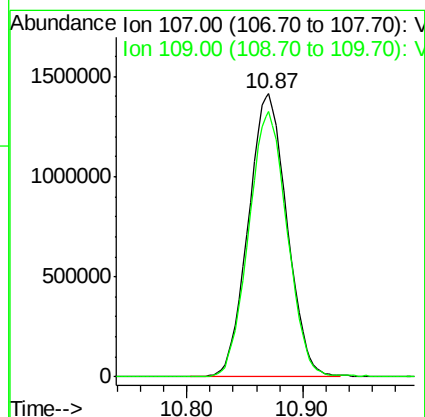
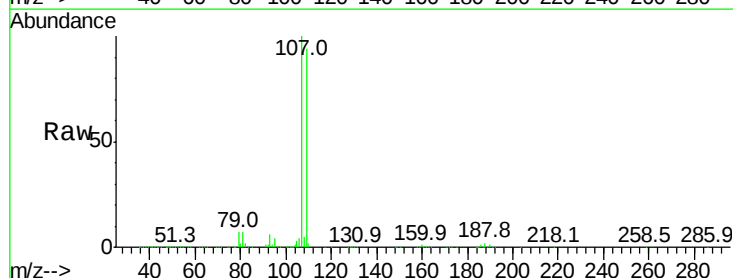
Acq: 29 Jun 2018 21:55

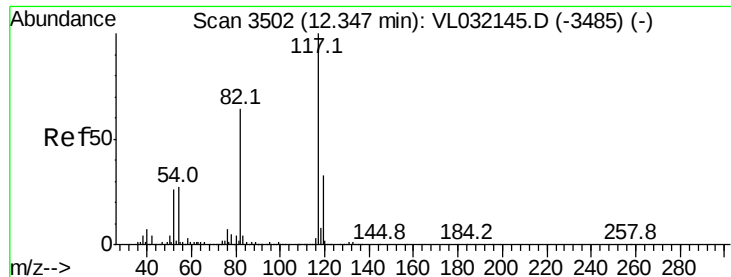
Tgt Ion: 107 Resp: 3274881

Ion Ratio Lower Upper

107 100

109 93.8 75.0 112.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.35 min Scan# 3503

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

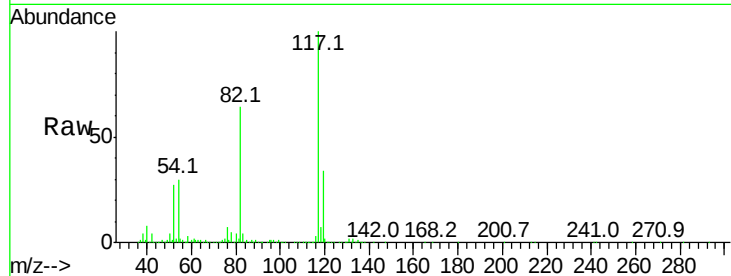
Tgt Ion:117 Resp: 5410876

Ion Ratio Lower Upper

117 100

82 49.9 47.8 71.8

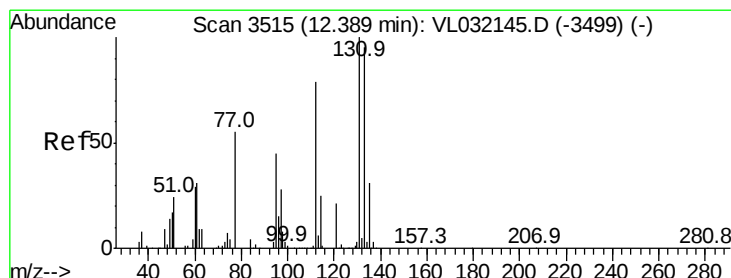
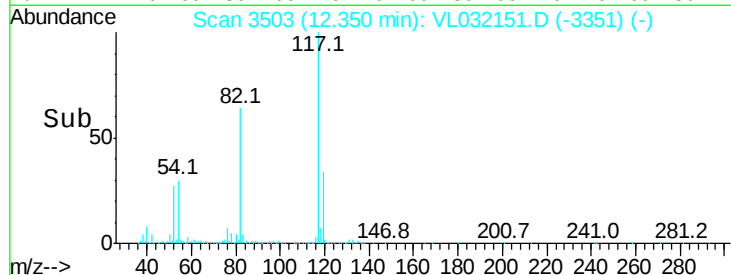
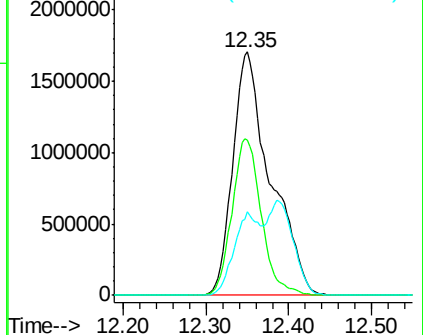
119 24.2 43.3 64.9#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.466 ppbv

RT: 12.39 min Scan# 3515

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

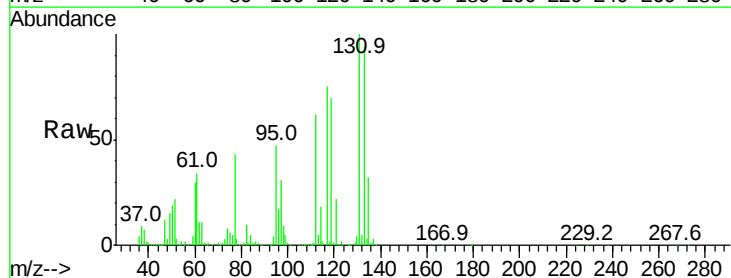
Tgt Ion:131 Resp: 2277440

Ion Ratio Lower Upper

131 100

133 94.7 75.5 113.3

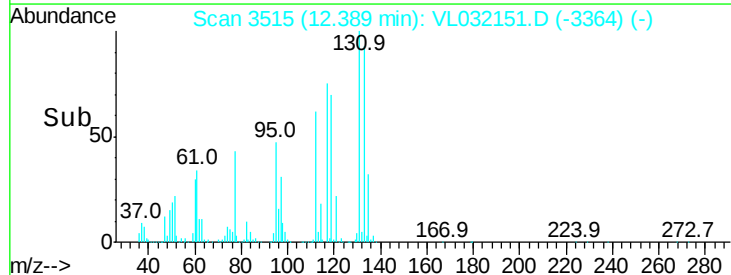
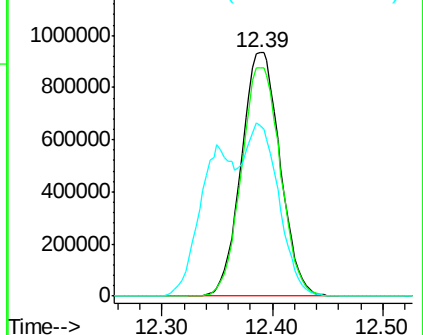
119 120.8 118.4 177.6

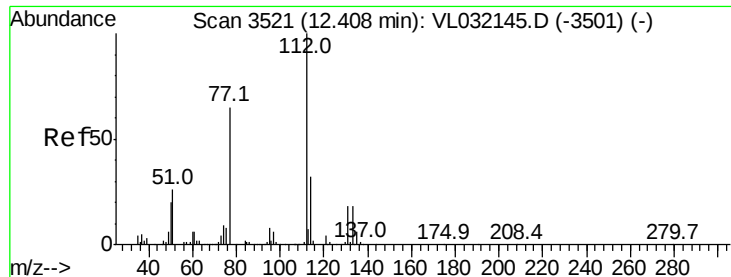


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.412 ppbv

RT: 12.41 min Scan# 3522

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

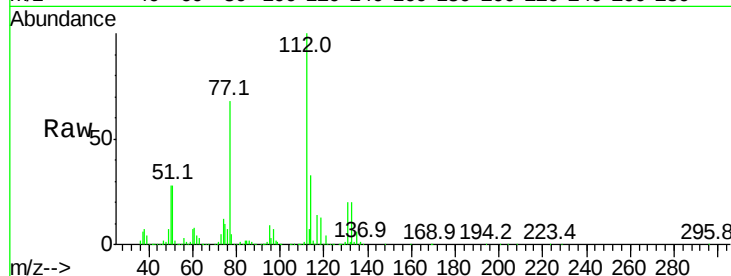
Tgt Ion: 112 Resp: 4312785

Ion Ratio Lower Upper

112 100

77 68.0 52.6 78.8

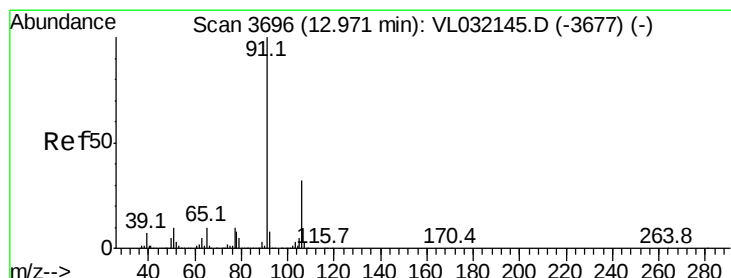
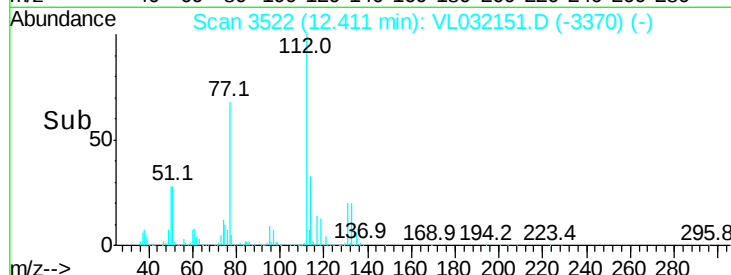
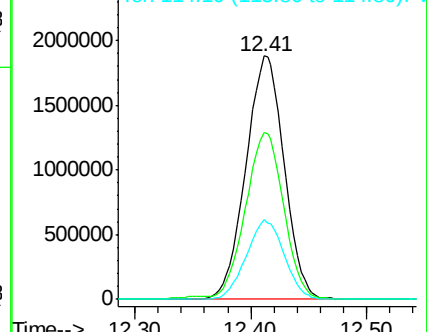
114 32.6 27.9 34.1



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: 8.682 ppbv

RT: 12.97 min Scan# 3696

Delta R.T. -0.01 min

Lab File: VL032151.D

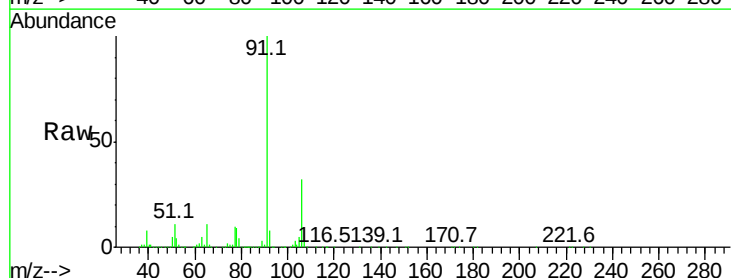
Acq: 29 Jun 2018 21:55

Tgt Ion: 91 Resp: 8186040

Ion Ratio Lower Upper

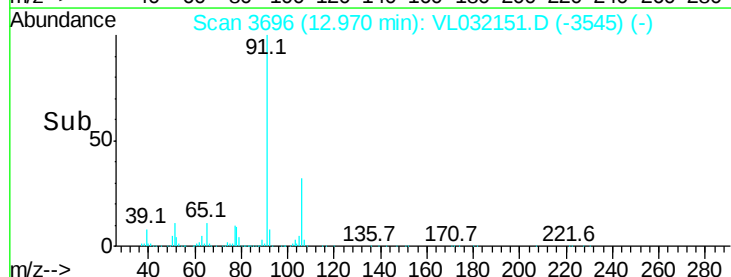
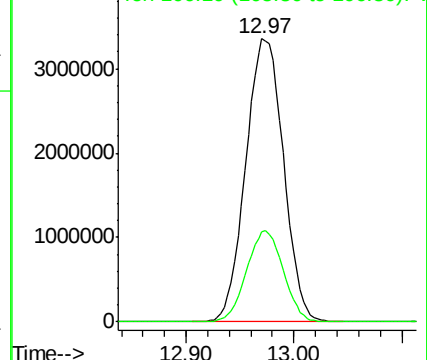
91 100

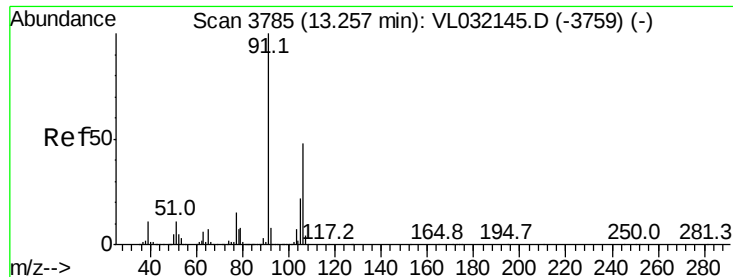
106 31.7 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 8.151 ppbv

RT: 13.26 min Scan# 3786

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

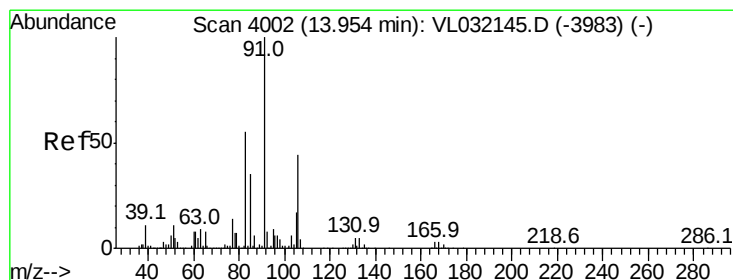
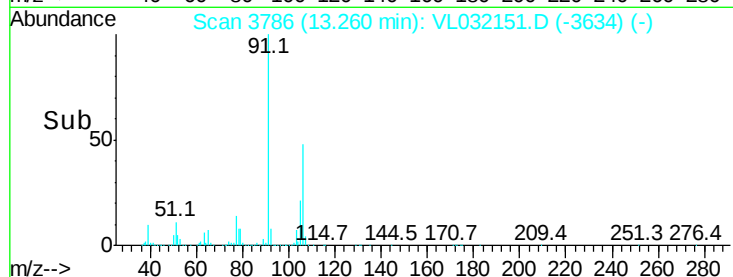
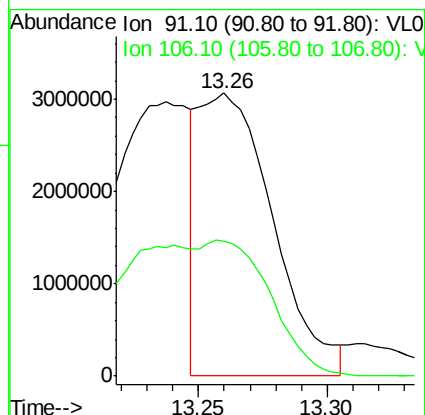
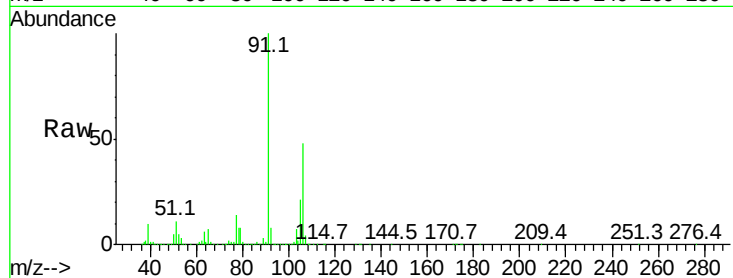
VSTDIC015

Tgt Ion: 91 Resp: 6080618

Ion Ratio Lower Upper

91 100

106 98.5 38.6 58.0#



#60

o-Xylene

Concen: 8.370 ppbv

RT: 13.96 min Scan# 4004

Delta R.T. -0.01 min

Lab File: VL032151.D

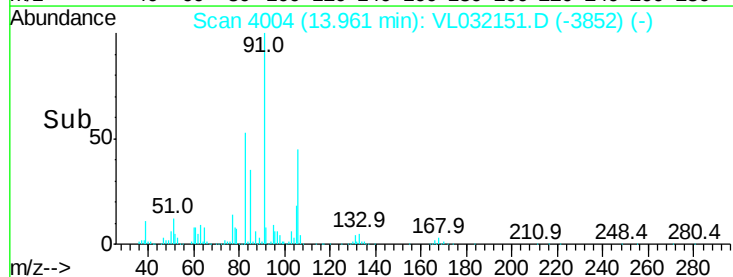
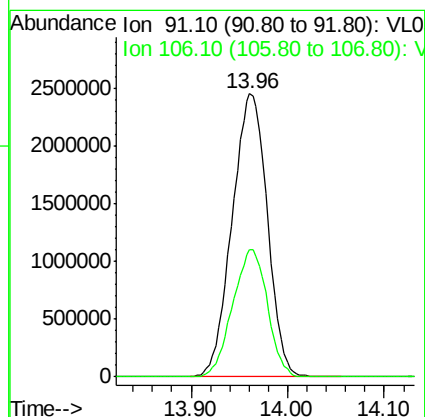
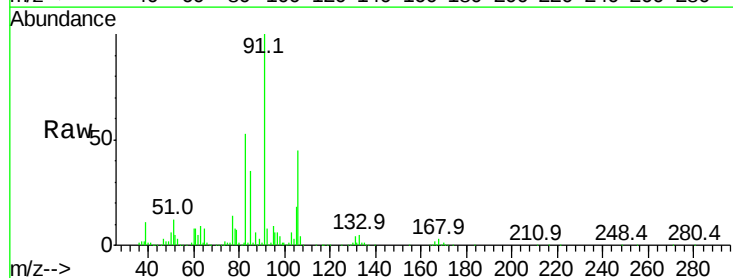
Acq: 29 Jun 2018 21:55

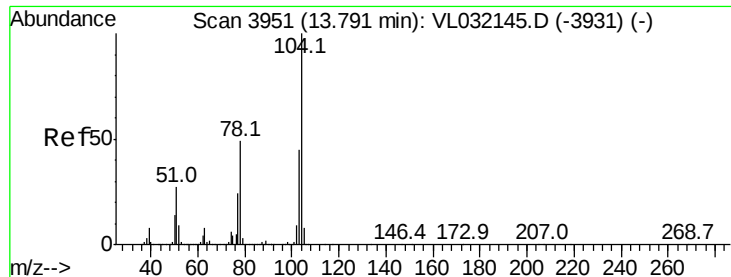
Tgt Ion: 91 Resp: 6193895

Ion Ratio Lower Upper

91 100

106 44.5 23.3 69.8





#61

Styrene

Concen: 24.522 ppbv

RT: 13.80 min Scan# 3953

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

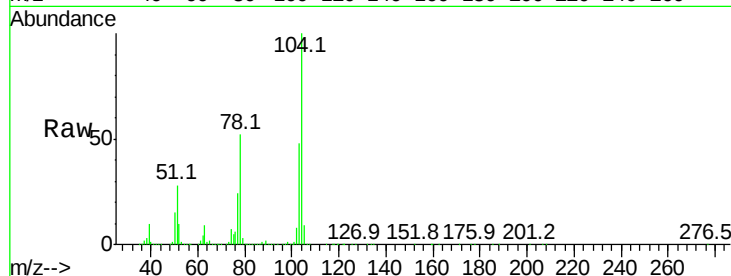
Tgt Ion:104 Resp: 5420802

Ion Ratio Lower Upper

104 100

78 51.7 37.9 56.9

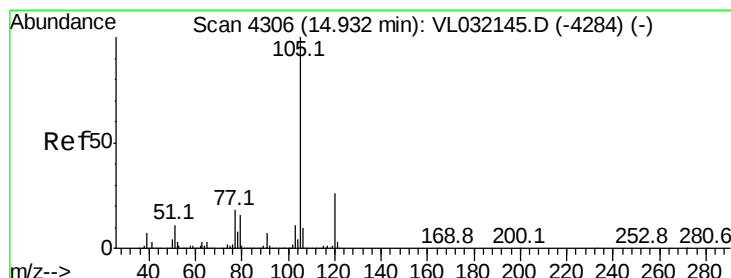
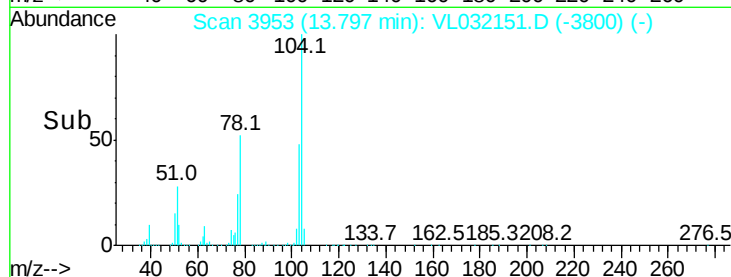
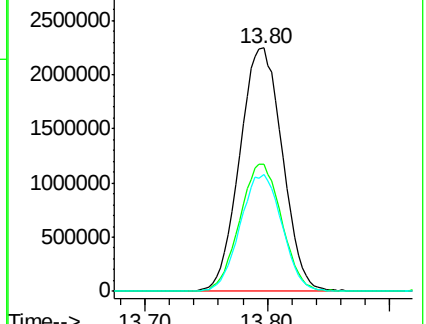
103 47.5 36.6 55.0



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: 9.306 ppbv

RT: 14.94 min Scan# 4307

Delta R.T. -0.01 min

Lab File: VL032151.D

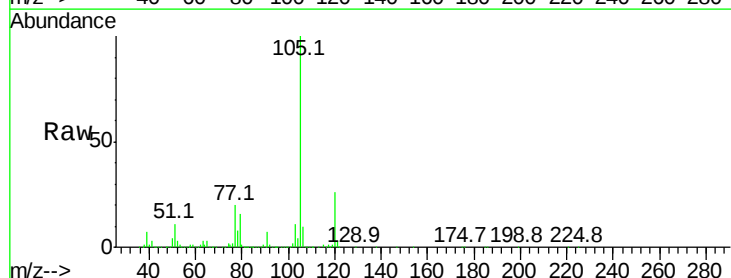
Acq: 29 Jun 2018 21:55

Tgt Ion:105 Resp: 9177029

Ion Ratio Lower Upper

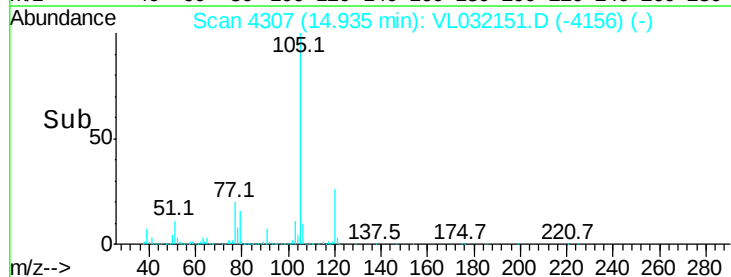
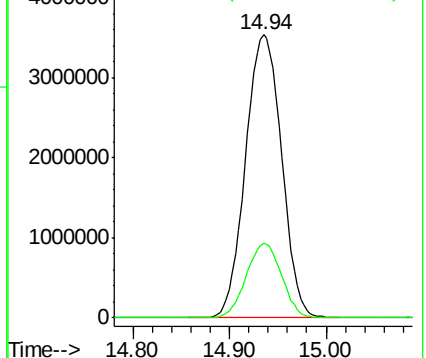
105 100

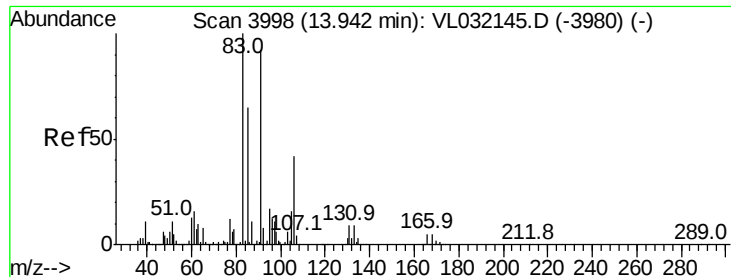
120 25.7 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.632 ppbv

RT: 13.94 min Scan# 3999

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

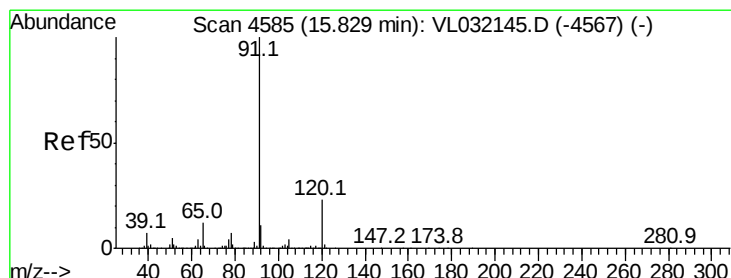
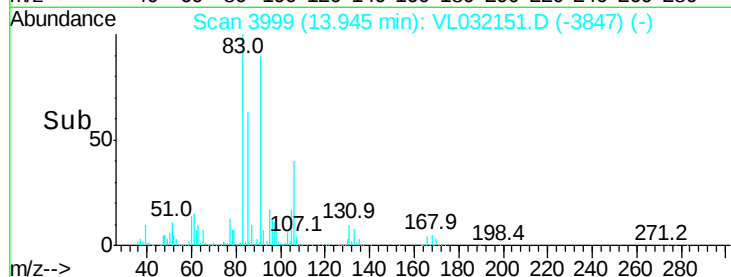
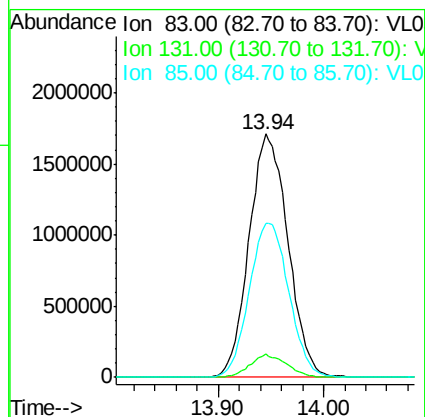
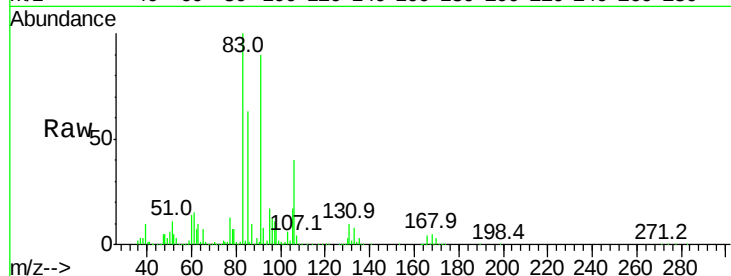
Tgt Ion: 83 Resp: 4385821

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.6	13.8
85	64.7	32.4	97.2

83 100

131 8.9 4.6 13.8

85 64.7 32.4 97.2



#64

n-propylbenzene

Concen: 9.506 ppbv

RT: 15.83 min Scan# 4586

Delta R.T. -0.01 min

Lab File: VL032151.D

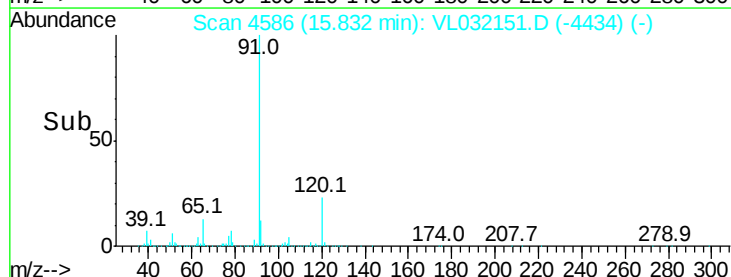
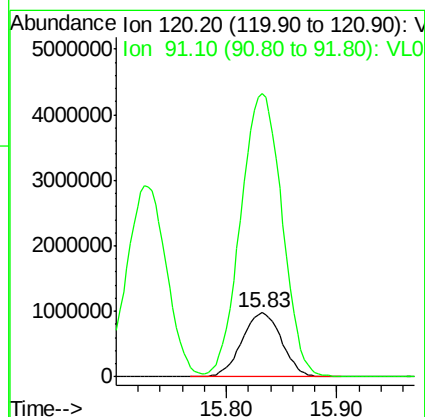
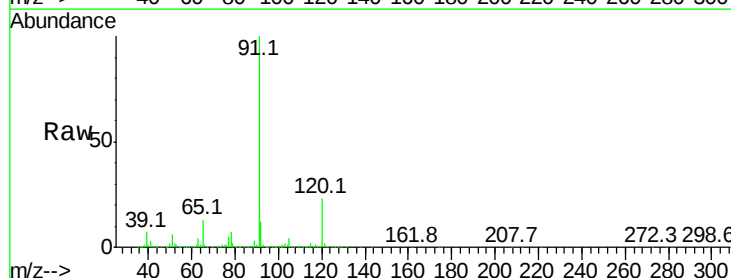
Acq: 29 Jun 2018 21:55

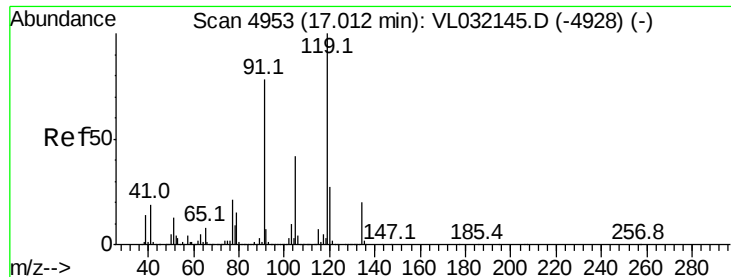
Tgt Ion: 120 Resp: 2442371

Ion	Ratio	Lower	Upper
120	100		
91	461.1	357.4	536.0

120 100

91 461.1 357.4 536.0

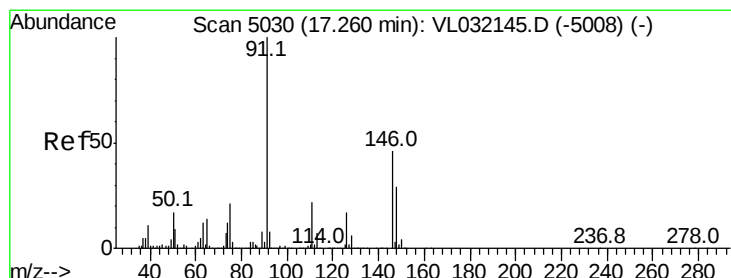
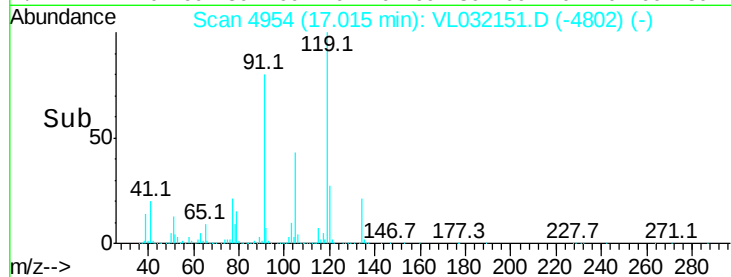
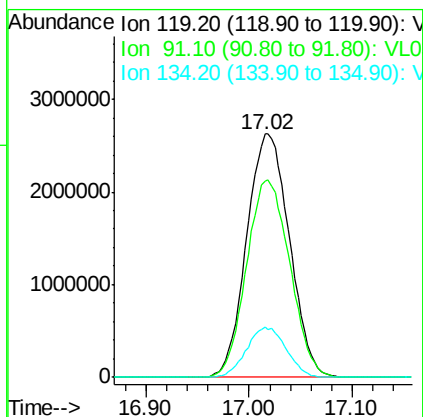
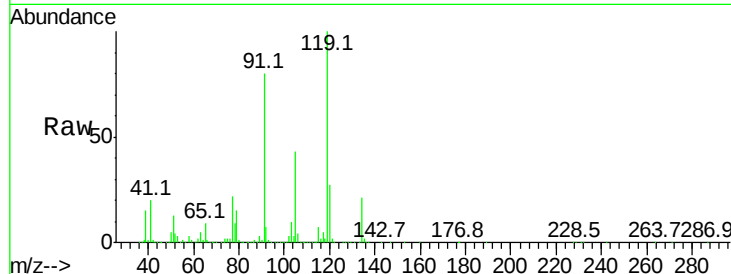




#65
 tert-Butylbenzene
 Concen: 8.697 ppbv
 RT: 17.02 min Scan# 4954
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

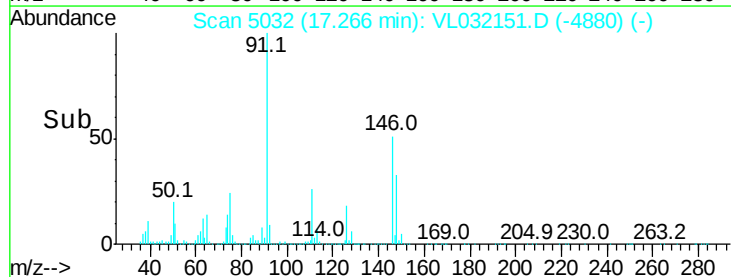
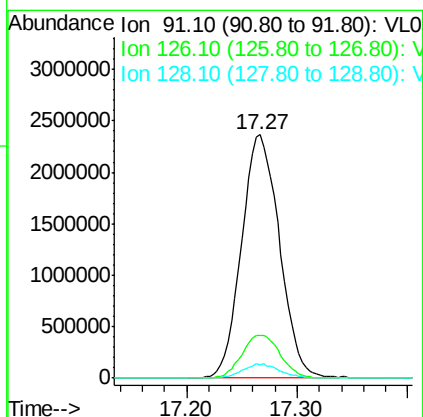
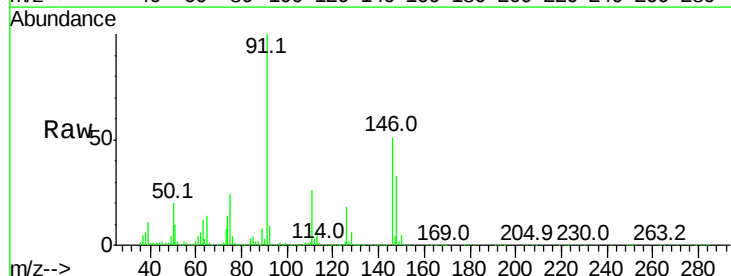
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

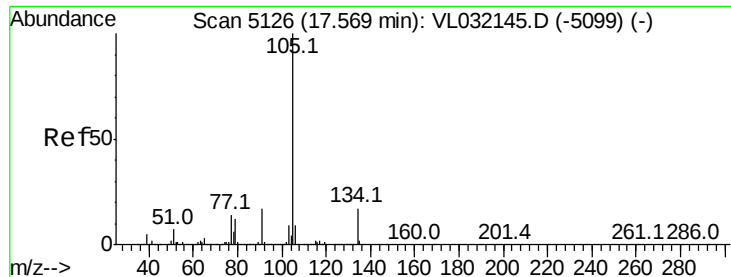
Tgt Ion: 119 Resp: 7550903
 Ion Ratio Lower Upper
 119 100
 91 82.2 62.2 93.2
 134 19.2 16.2 24.2



#66
 Benzyl Chloride
 Concen: 50.746 ppbv
 RT: 17.27 min Scan# 5032
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion: 91 Resp: 5621540
 Ion Ratio Lower Upper
 91 100
 126 17.9 15.7 23.5
 128 5.7 5.2 7.8





#67

sec-Butylbenzene

Concen: 8.789 ppbv

RT: 17.57 min Scan# 5126

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

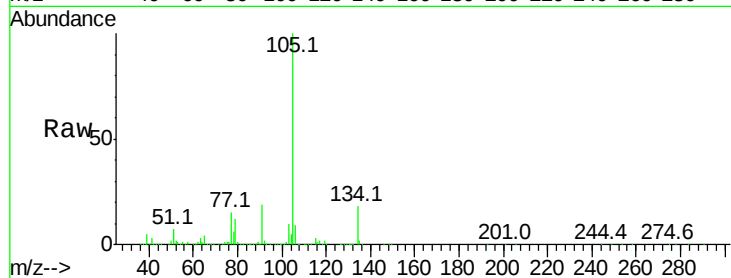
VSTDIC015

Tgt Ion:105 Resp:11123179

Ion Ratio Lower Upper

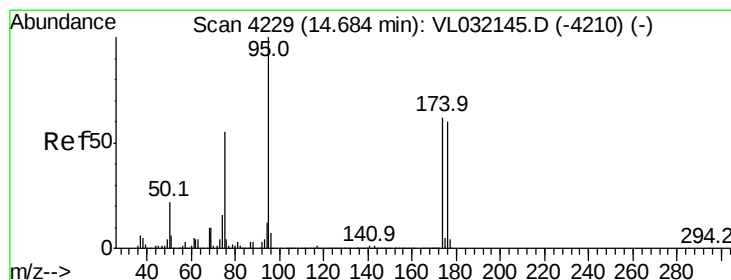
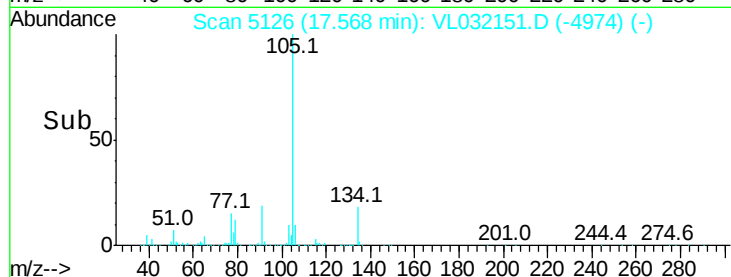
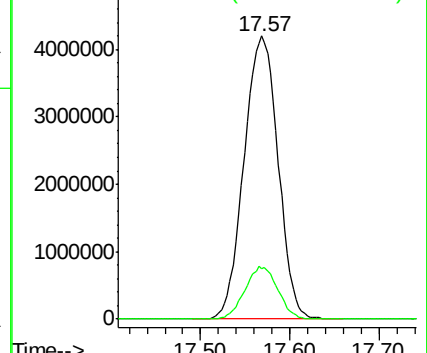
105 100

134 18.0 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 7.611 ppbv

RT: 14.69 min Scan# 4230

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

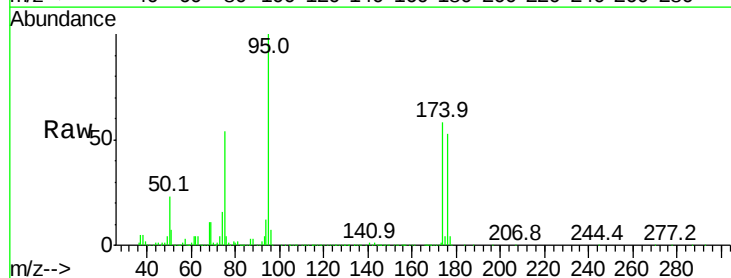
Tgt Ion: 95 Resp: 3060193

Ion Ratio Lower Upper

95 100

174 58.3 52.1 78.1

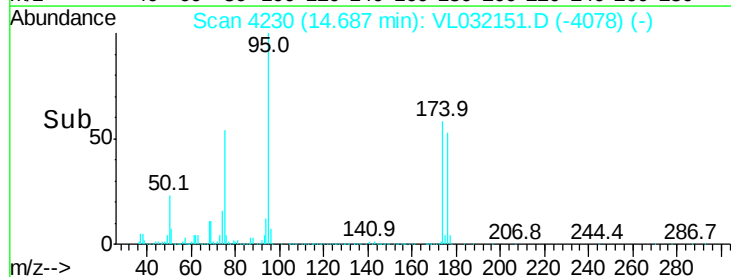
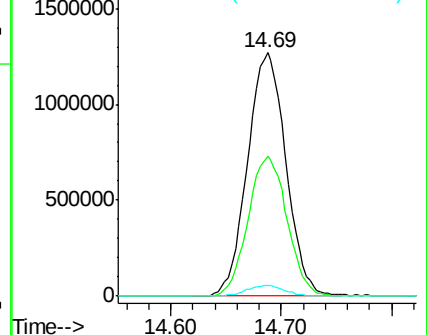
175 4.3 4.0 6.0

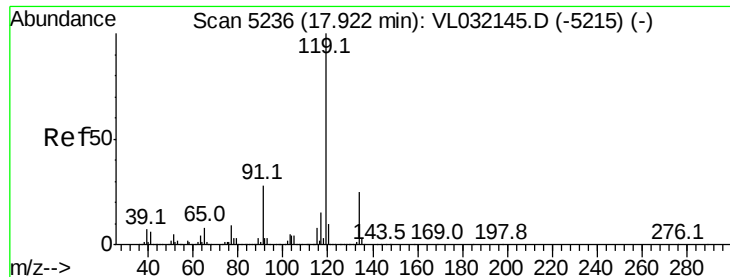


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 8.808 ppbv

RT: 17.93 min Scan# 5237

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

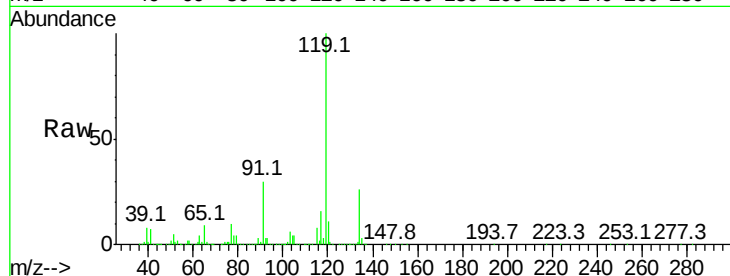
Tgt Ion:119 Resp: 9137774

Ion Ratio Lower Upper

119 100

134 25.3 20.7 31.1

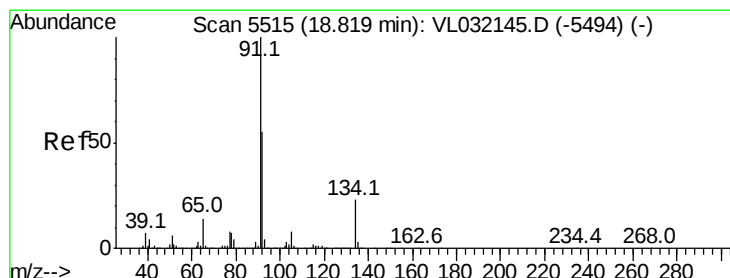
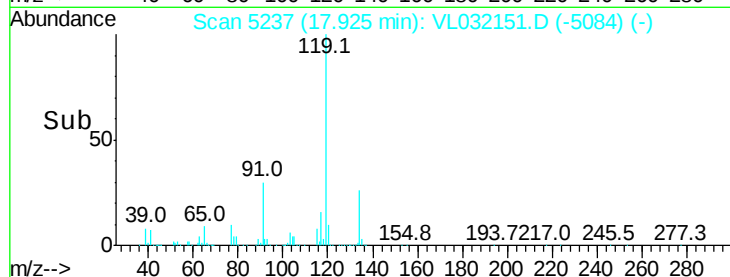
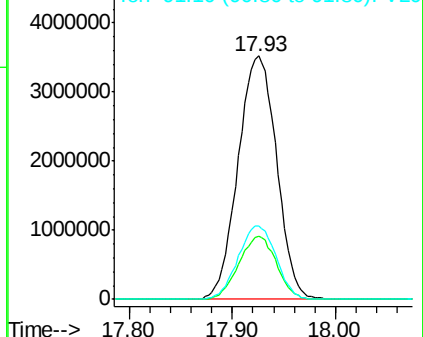
91 29.8 21.8 32.8



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: 8.967 ppbv

RT: 18.82 min Scan# 5516

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

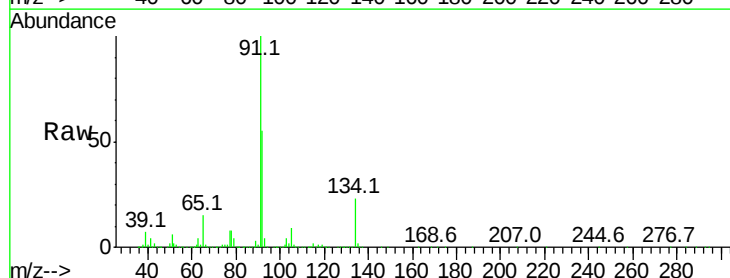
Tgt Ion: 91 Resp: 9783667

Ion Ratio Lower Upper

91 100

92 55.2 43.7 65.5

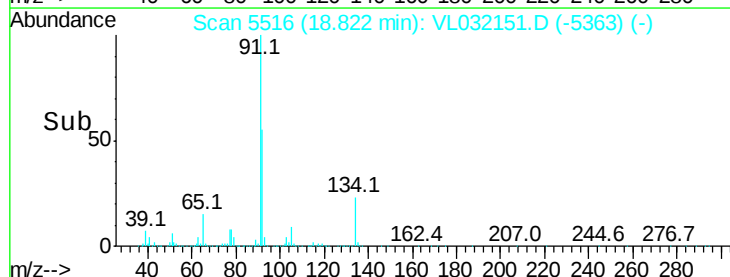
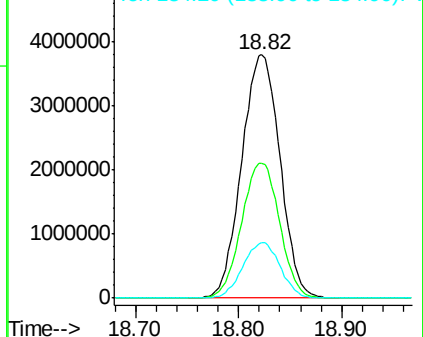
134 22.4 18.9 28.3

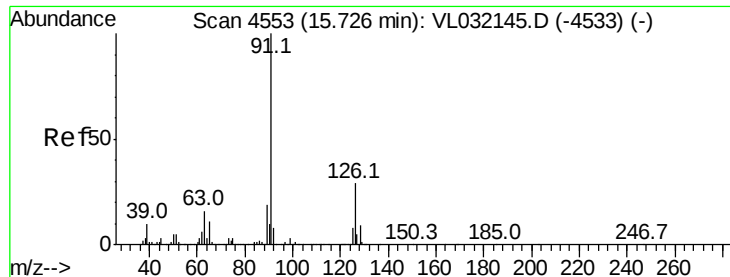


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.662 ppbv

RT: 15.73 min Scan# 4553

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

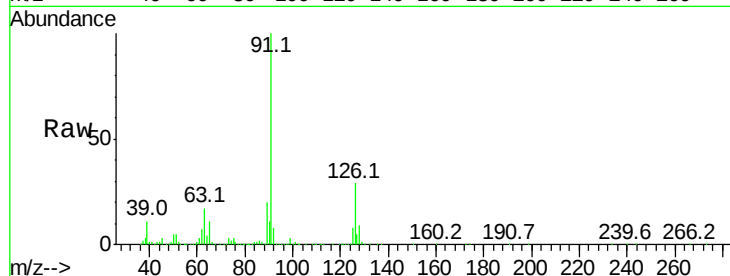
VSTDIC015

Tgt Ion: 91 Resp: 7309395

Ion Ratio Lower Upper

91 100

126 29.6 12.8 51.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

5000000

4000000

3000000

2000000

1000000

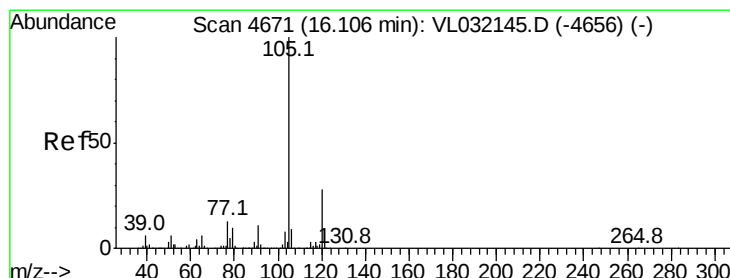
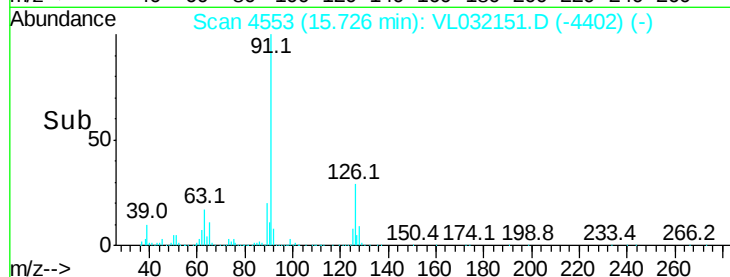
0

15.73

15.70

15.80

Time-->



#72

4-Ethyltoluene

Concen: 9.553 ppbv

RT: 16.11 min Scan# 4673

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Tgt Ion: 105 Resp: 7977882

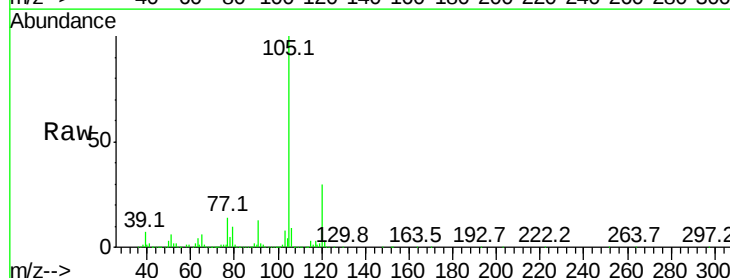
Ion Ratio Lower Upper

105 100

120 29.4 24.3 36.5

91 12.4 9.4 14.0

77 13.6 10.2 15.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

5000000

4000000

3000000

2000000

1000000

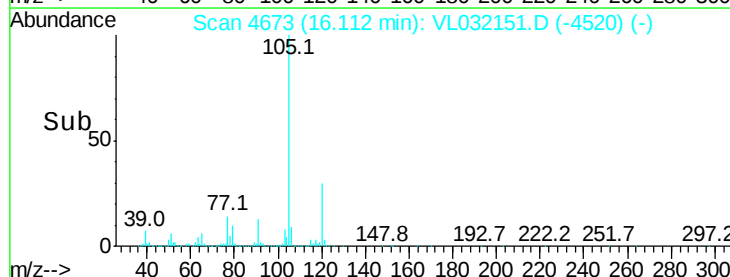
0

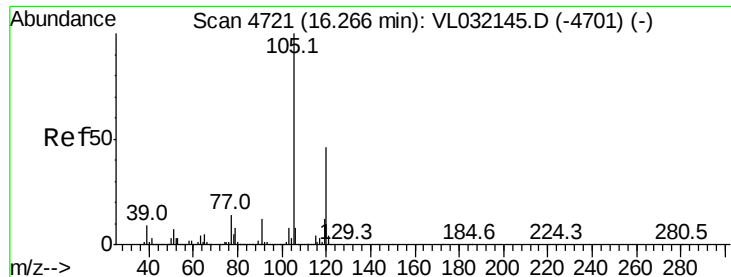
16.11

16.10

16.20

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 10.009 ppbv

RT: 16.27 min Scan# 4722

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

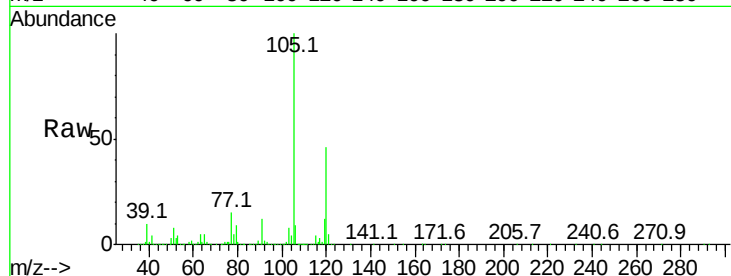
VSTDIC015

Tgt Ion:105 Resp: 7483895

Ion Ratio Lower Upper

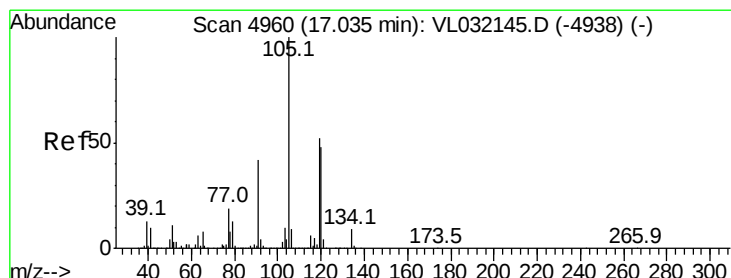
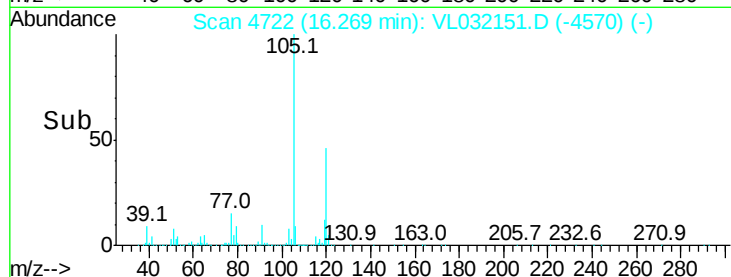
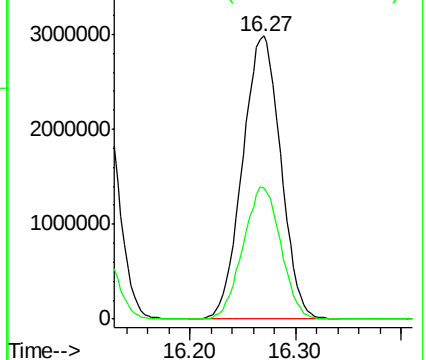
105 100

120 46.5 38.6 57.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.948 ppbv

RT: 17.04 min Scan# 4961

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Tgt Ion:105 Resp: 7114855

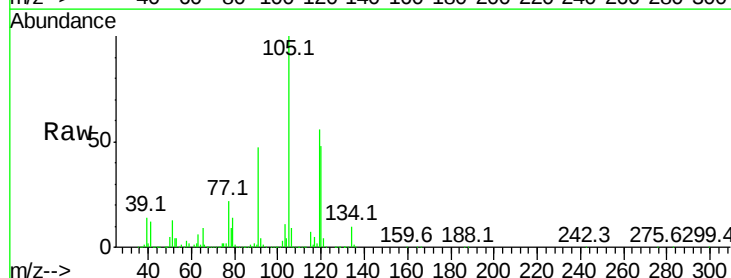
Ion Ratio Lower Upper

105 100

120 48.4 38.8 58.2

91 46.8 33.6 50.4

77 21.7 16.0 24.0

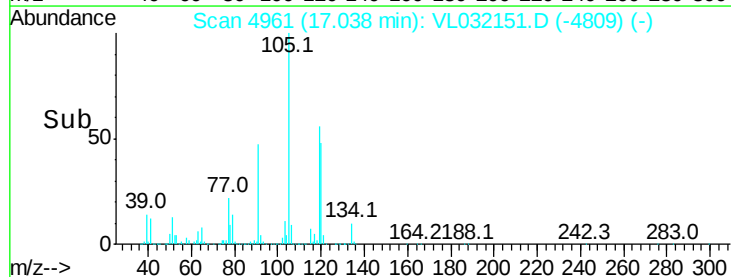
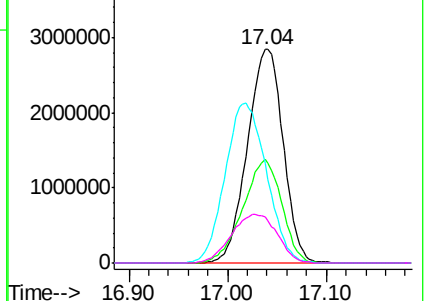


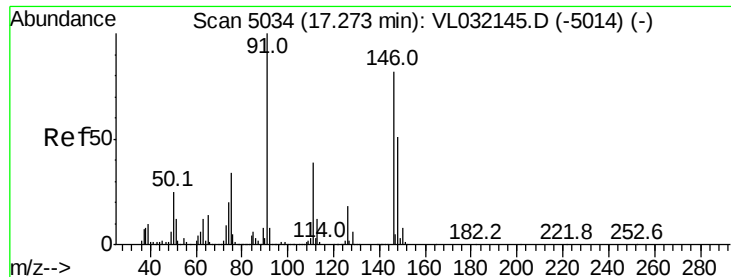
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 8.242 ppbv

RT: 17.28 min Scan# 5036

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

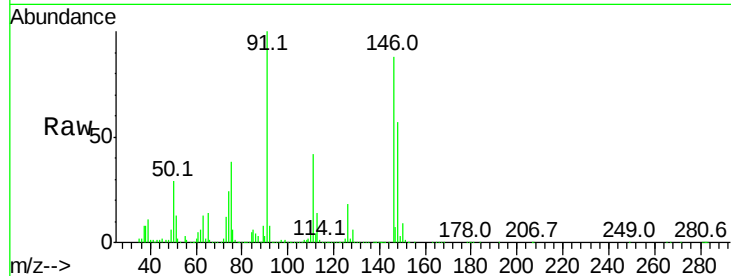
Tgt Ion:146 Resp: 4007055

Ion Ratio Lower Upper

146 100

111 49.1 22.9 68.8

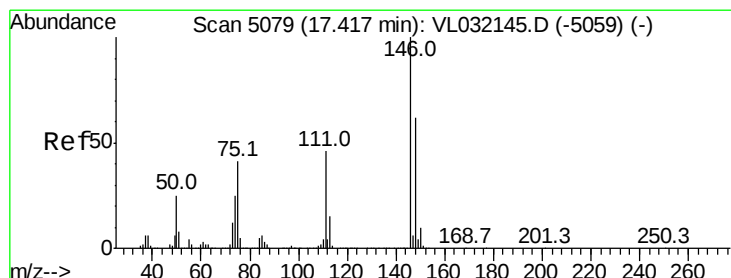
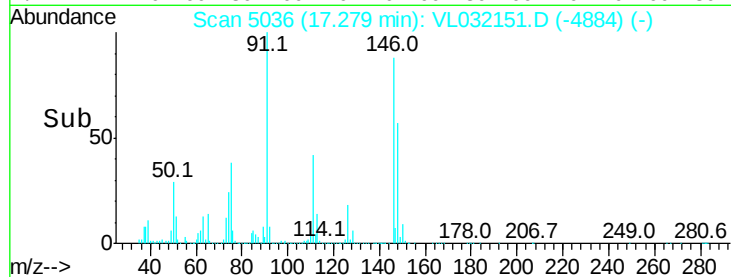
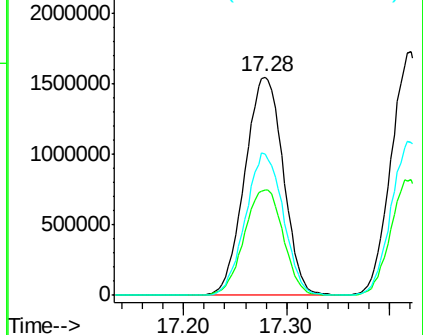
148 64.1 31.7 95.1



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



#76

1,4-Dichlorobenzene

Concen: 8.587 ppbv

RT: 17.42 min Scan# 5080

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

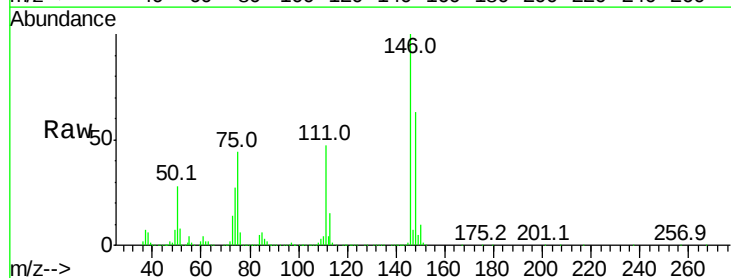
Tgt Ion:146 Resp: 4245430

Ion Ratio Lower Upper

146 100

111 48.2 21.9 65.8

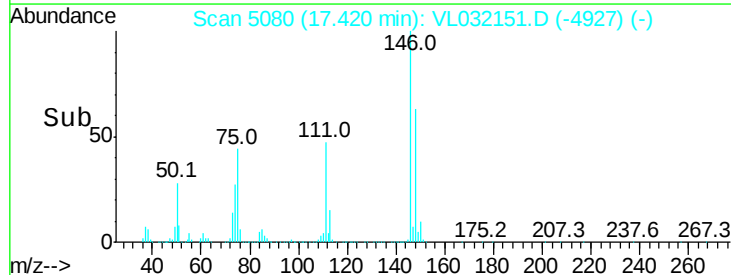
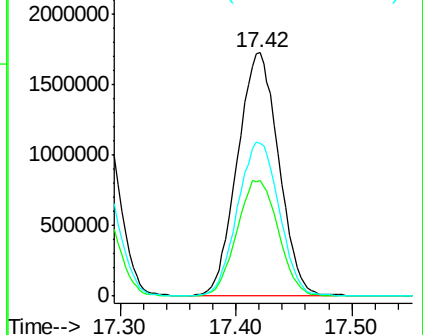
148 64.0 32.1 96.5

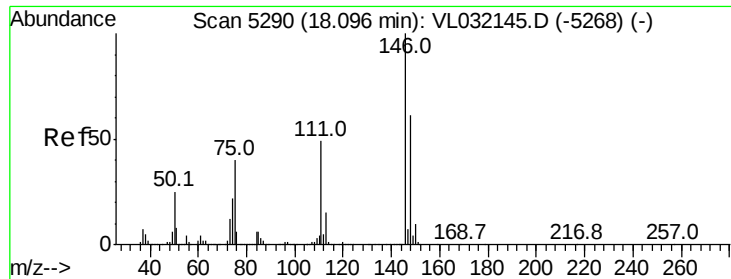


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

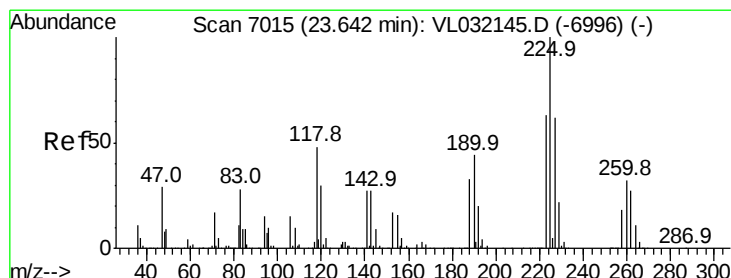
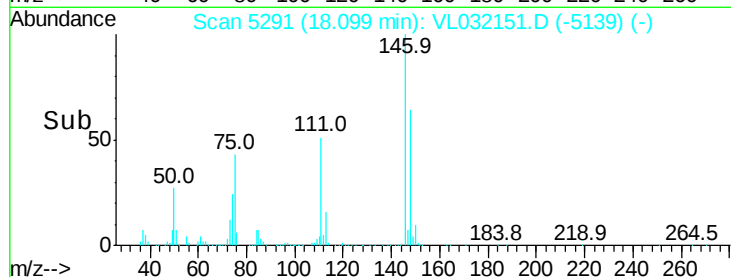
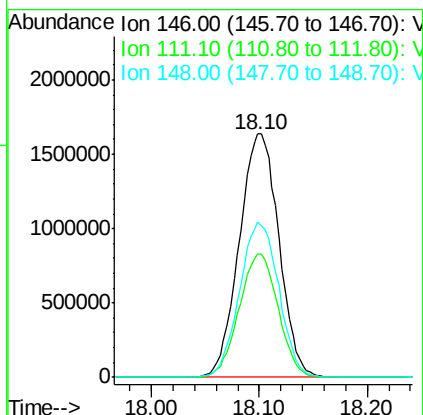
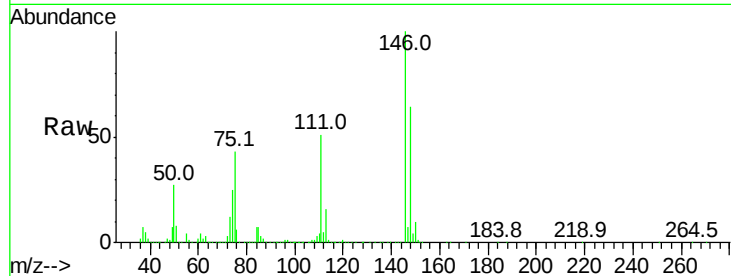




#77
 1,2-Dichlorobenzene
 Concen: 8.253 ppbv
 RT: 18.10 min Scan# 5291
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

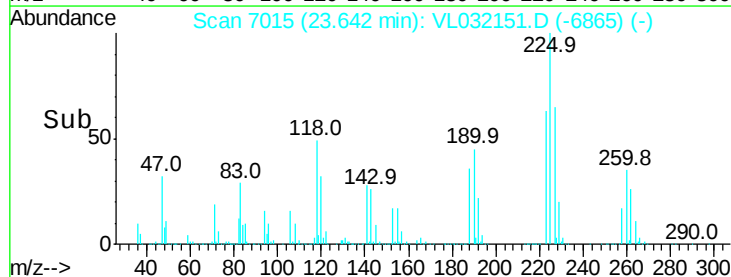
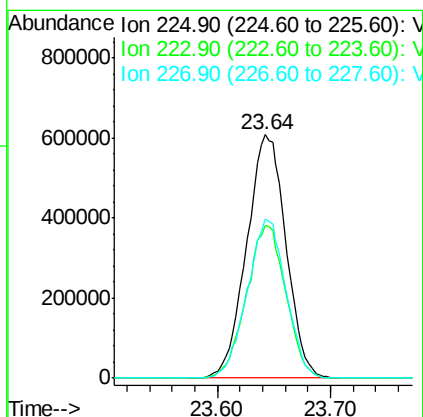
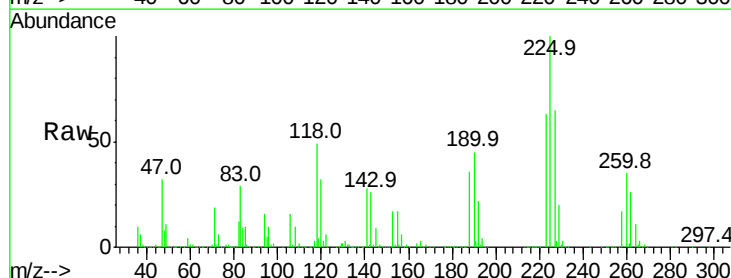
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

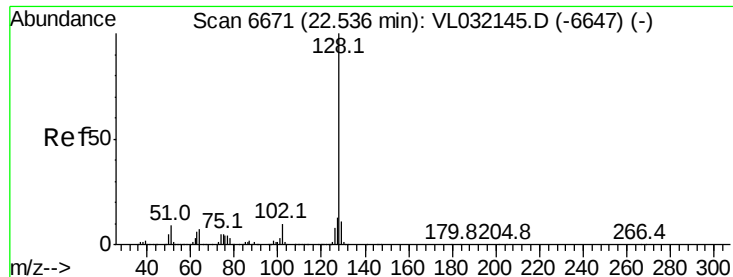
Tgt Ion:146 Resp: 4174770
 Ion Ratio Lower Upper
 146 100
 111 50.0 23.4 70.3
 148 63.3 32.0 96.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.632 ppbv
 RT: 23.64 min Scan# 7015
 Delta R.T. -0.02 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion:225 Resp: 1463308
 Ion Ratio Lower Upper
 225 100
 223 63.0 51.0 76.4
 227 64.6 51.4 77.0

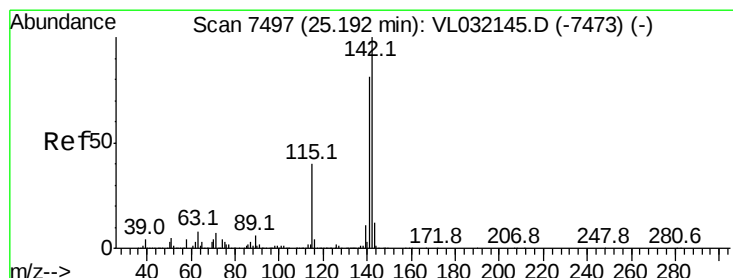
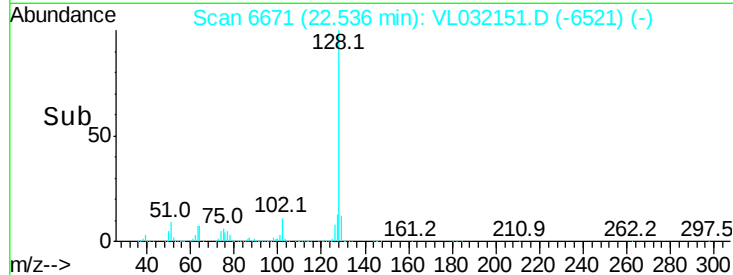
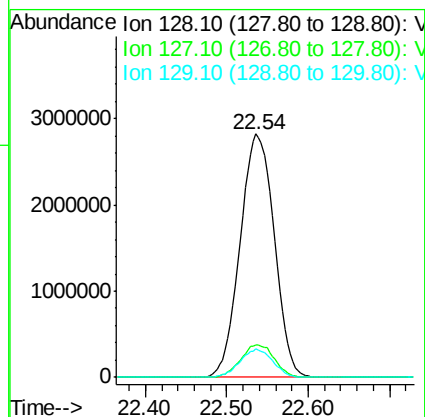
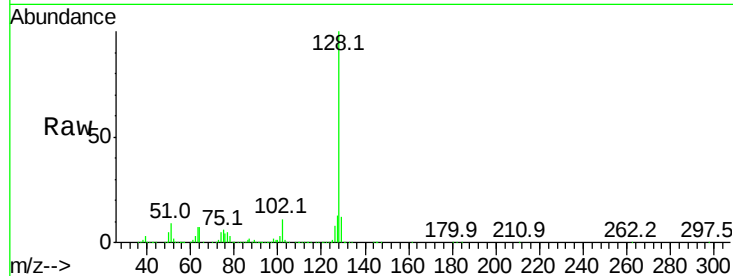




#79
Naphthalene
Concen: 9.827 ppbv
RT: 22.54 min Scan# 6671
Delta R.T. -0.02 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

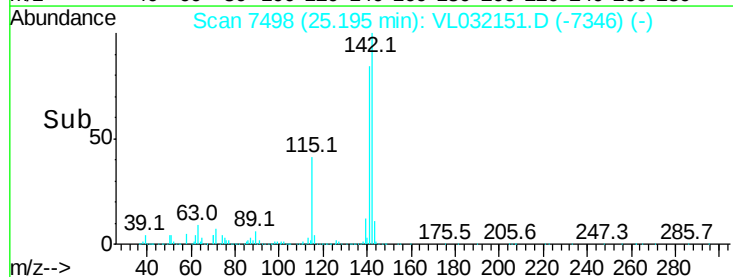
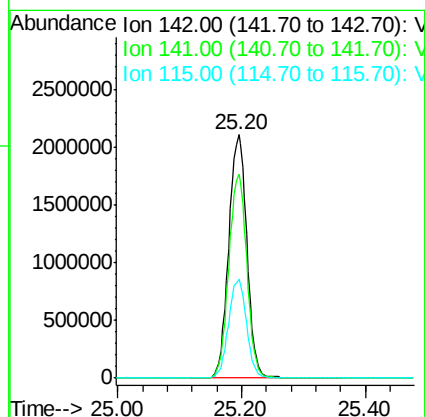
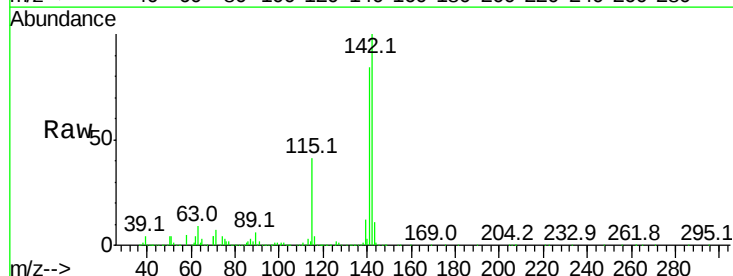
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

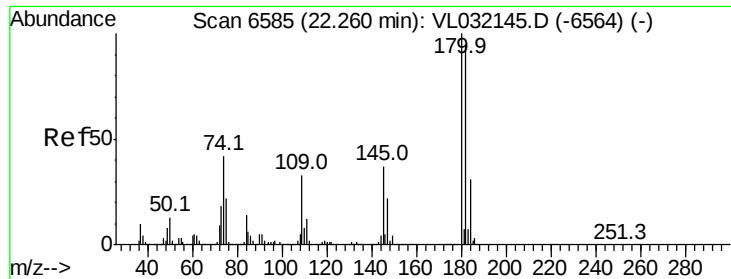
Tgt Ion:128 Resp: 8159418
Ion Ratio Lower Upper
128 100
127 13.2 10.5 15.7
129 11.5 9.0 13.6



#80
Naphthalene, 2-methyl-
Concen: 8.653 ppbv
RT: 25.20 min Scan# 7498
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion:142 Resp: 4302129
Ion Ratio Lower Upper
142 100
141 83.5 65.8 98.6
115 40.3 29.4 44.0





#81

1,2,4-Trichlorobenzene

Concen: 11.027 ppbv

RT: 22.26 min Scan# 6586

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

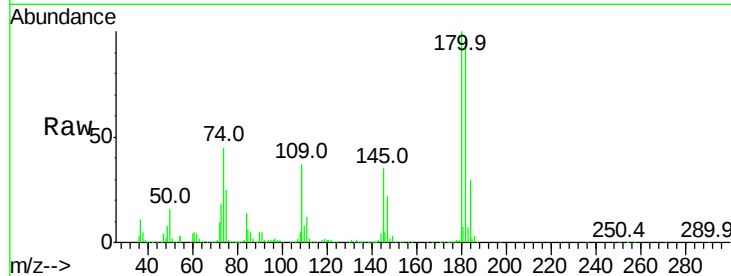
Tgt Ion:180 Resp: 3584952

Ion Ratio Lower Upper

180 100

182 95.7 76.2 114.4

184 30.4 24.4 36.6



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

