

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052019\
 Data File : VL033723.D
 Acq On : 20 May 2019 13:33
 Operator : SY/AP
 Sample : VL0520ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0520ABS01

Quant Time: May 21 01:44:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1098754	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2628418	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2766029m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2175416	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1503035	6.491	ppbv	99
3) Chlorodifluoromethane	3.01	51	1260344	10.014	ppbv	100
4) Chloromethane	3.17	50	653793	9.082	ppbv	99
5) Vinyl Chloride	3.29	62	665823	9.080	ppbv	98
6) Bromomethane	3.51	94	437301	9.774	ppbv	97
7) Chloroethane	3.59	64	253857	9.741	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	1710442	9.162	ppbv	99
9) Propene	3.03	41	505353	9.440	ppbv	99
10) Heptane	8.24	43	1331408	8.783	ppbv	99
11) Trichlorofluoromethane	4.00	101	2089861	9.456	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1378865	8.935	ppbv	100
13) Ethanol	3.64	45	143931	8.319	ppbv	97
14) Bromoethene	3.78	108	560418	9.878	ppbv	99
15) Acetone	3.90	43	1341603	8.800	ppbv	100
16) 1,3-Butadiene	3.36	39	599369	9.873	ppbv	99
17) tert-Butyl alcohol	4.35	59	1156203	9.379	ppbv	100
18) 1,1-Dichloroethene	4.35	96	604715	9.283	ppbv	94
19) Isopropyl Alcohol	4.02	45	898704	9.143	ppbv	99
20) Methylene Chloride	4.40	84	510607	8.699	ppbv	99
21) Allyl Chloride	4.47	41	903860	9.506	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	623114	9.332	ppbv	92
23) Vinyl Acetate	5.15	43	2008368	9.992	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1373205	8.987	ppbv	99
25) Ethyl Acetate	5.76	43	2344153	8.753	ppbv	100
26) Hexane	5.77	57	1021149	8.870	ppbv	98
27) Carbon Disulfide	4.62	76	1552301	9.828	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1784660	9.509	ppbv	100
29) Chloroform	5.85	83	1768485	8.339	ppbv	98
30) Cyclohexane	7.24	84	900296	9.302	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1079096	9.453	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1863137	8.799	ppbv	100
34) 2-Butanone	5.33	43	1553947	9.538	ppbv	99
35) Carbon Tetrachloride	7.13	117	1981187	9.410	ppbv	98
36) Benzene	7.00	78	2213239	9.257	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1367390	8.866	ppbv	100
38) Trichloroethene	7.96	130	871329	9.821	ppbv	97
39) 1,2-Dichloropropane	7.73	63	814018	9.132	ppbv	99
40) 1,4-Dioxane	7.95	88	320586	8.597	ppbv #	99
41) Tetrahydrofuran	6.14	42	852032	9.334	ppbv	99
42) Bromodichloromethane	7.91	83	1922479	9.105	ppbv	97
43) Methyl Methacrylate	8.13	69	878006	9.978	ppbv	98

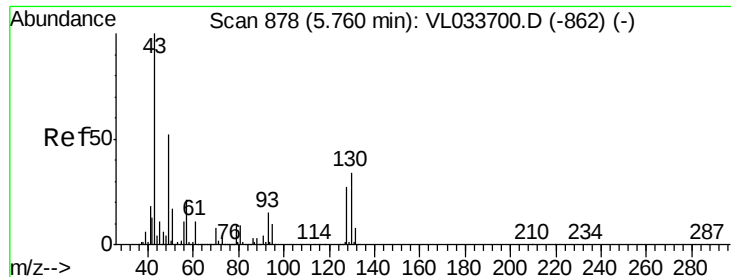
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3592726	8.891	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1213031	10.874	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1349456	10.331	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	904175	8.929	ppbv	97
48) Dibromochloromethane	10.45	129	1658994	9.455	ppbv	99
49) Bromoform	13.20	173	1478490	10.014	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2337461	9.328	ppbv	100
51) 2-Hexanone	10.26	43	1934323	9.890	ppbv #	99
52) Tetrachloroethene	11.37	164	825393	9.821	ppbv	97
53) Toluene	9.94	91	2542010	9.857	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1446070	9.357	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1133082	8.853	ppbv #	62
57) Chlorobenzene	12.30	112	1972256	8.662	ppbv	100
58) Ethyl Benzene	12.86	91	3478916	9.498	ppbv	98
59) m/p-Xylene	13.15	91	5788887m	18.079	ppbv	
60) o-Xylene	13.84	91	2918815	9.043	ppbv	100
61) Styrene	13.68	104	2184454	10.052	ppbv	100
62) Isopropylbenzene	14.82	105	3958789	9.107	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2008503	8.557	ppbv	100
64) n-propylbenzene	15.72	120	1038910	9.240	ppbv	100
65) tert-Butylbenzene	16.90	119	3647263	9.190	ppbv	99
66) Benzyl Chloride	17.15	91	2146443	11.355	ppbv	100
67) sec-Butylbenzene	17.45	105	5090737	9.164	ppbv	100
69) p-Isopropyltoluene	17.81	119	4233307	9.220	ppbv	99
70) n-Butylbenzene	18.71	91	4440011	9.018	ppbv	100
71) 2-Chlorotoluene	15.61	91	3046004	9.445	ppbv	100
72) 4-Ethyltoluene	15.99	105	3488025	9.451	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3328049	9.242	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3476780	8.872	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	2027371	8.442	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2017815	8.841	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1940845	8.601	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1202097	7.046	ppbv	99
79) Naphthalene	22.41	128	3011667	8.274	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	965588	6.982	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1650814	7.745	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

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ClientSampleId :

VL0520ABS01

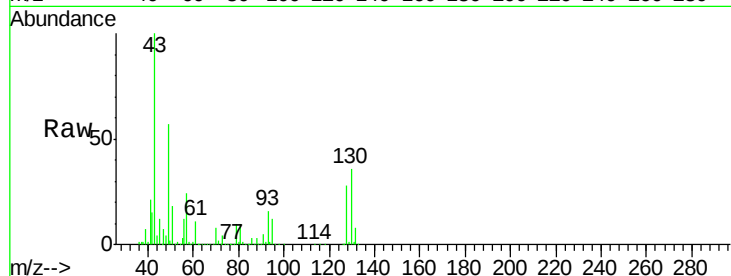
Tot Ion: 49 Resp: 1098754

Ion Ratio Lower Upper

49 100

128 50.4 25.2 75.6

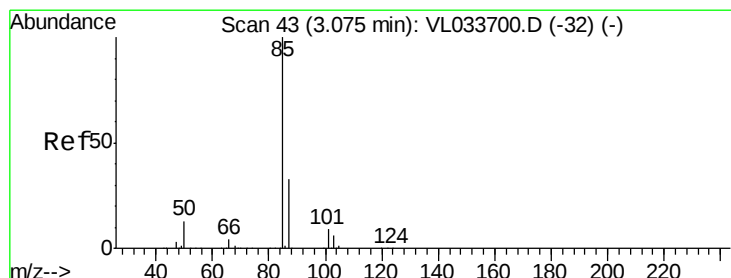
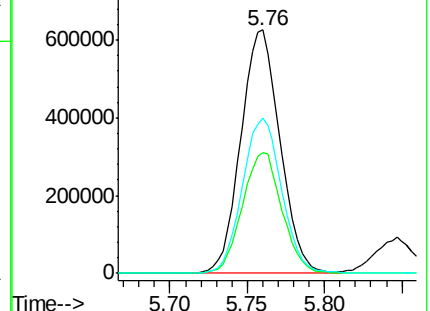
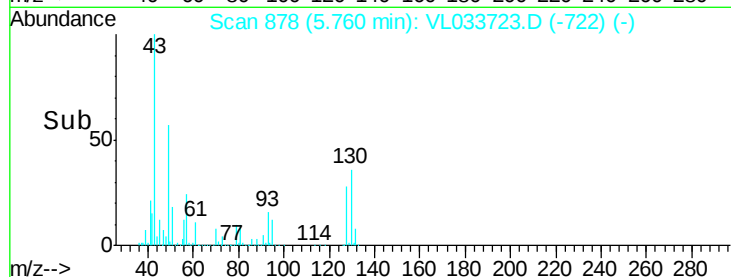
130 64.4 32.5 97.5



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: 6.491 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033723.D

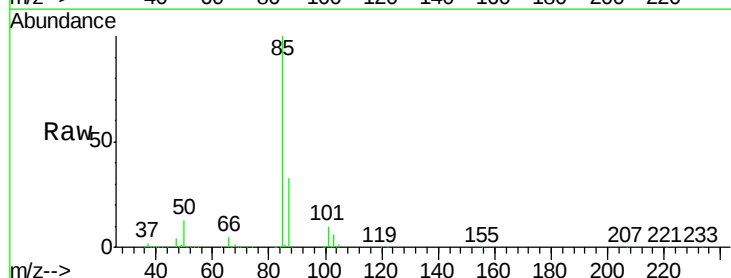
Acq: 20 May 2019 13:33

Tgt Ion: 85 Resp: 1503035

Ion Ratio Lower Upper

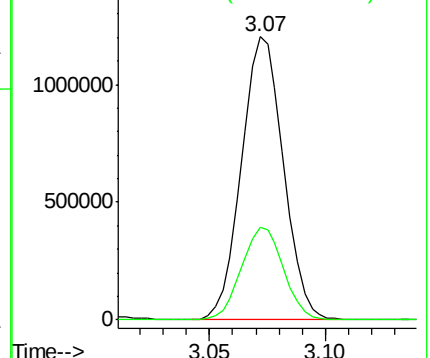
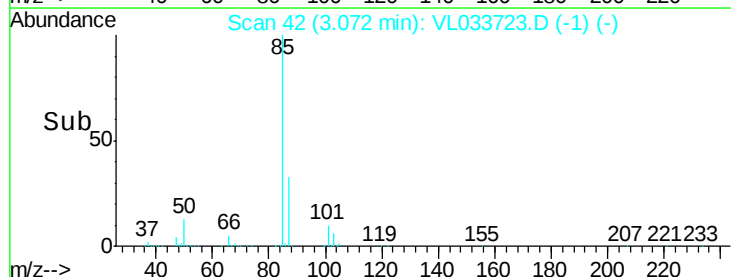
85 100

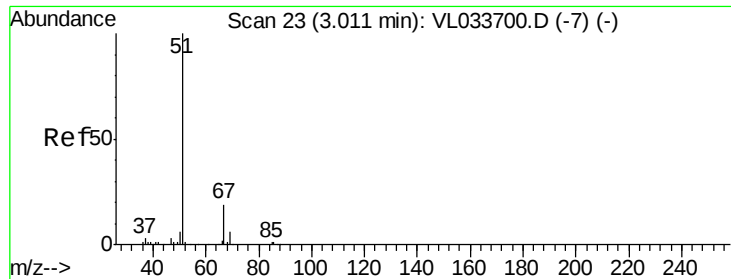
87 32.5 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

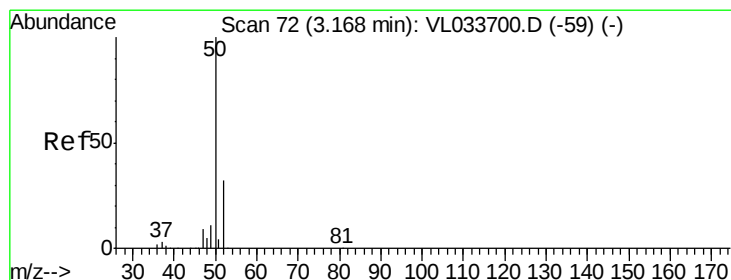
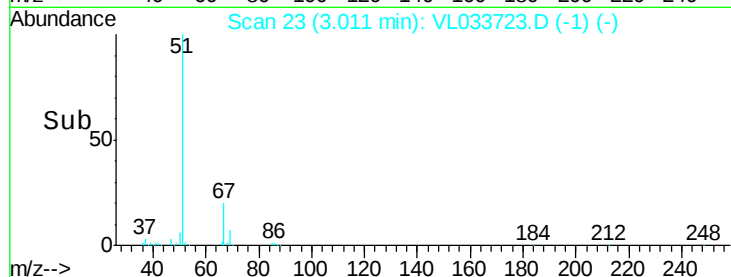
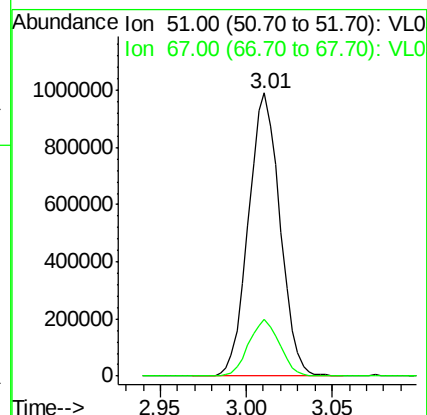
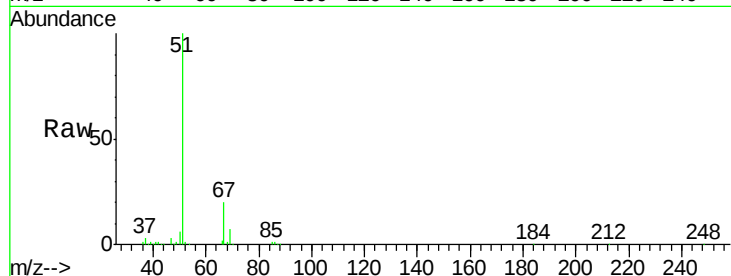




#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

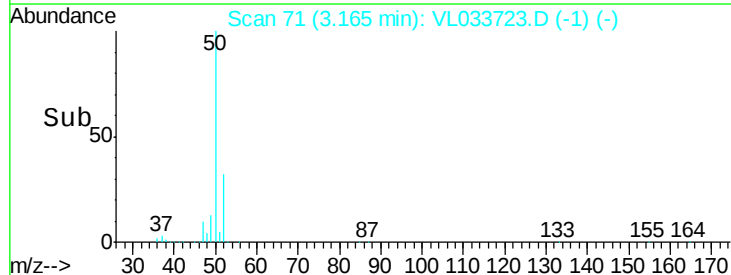
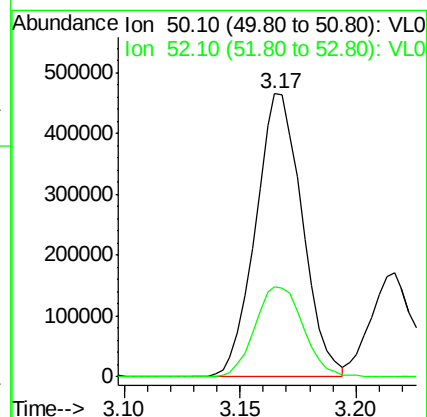
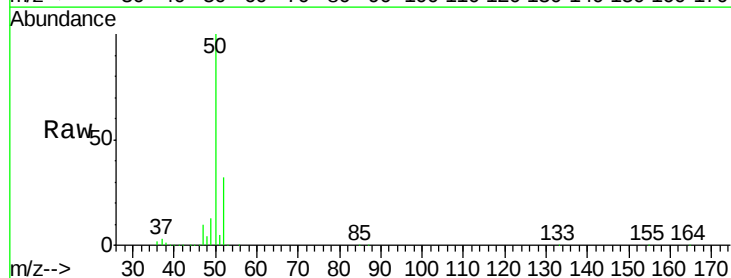
Instrument :
MSVOA_L
ClientSampleId :
VL0520ABS01

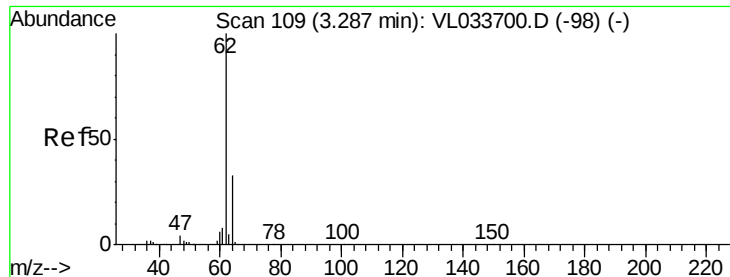
Tot Ion: 51 Resp: 1260344
Ion Ratio Lower Upper
51 100
67 19.6 15.6 23.4



#4
Chloromethane
Concen: 9.082 ppbv
RT: 3.17 min Scan# 71
Delta R.T. -0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

Tgt Ion: 50 Resp: 653793
Ion Ratio Lower Upper
50 100
52 31.8 25.7 38.5





#5

Vinyl Chloride

Concen: 9.080 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

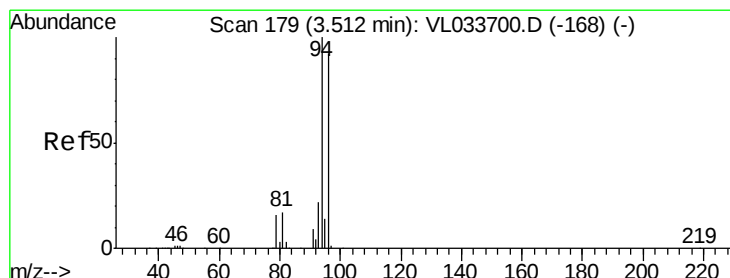
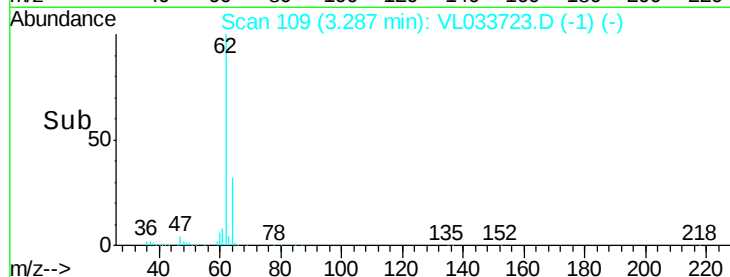
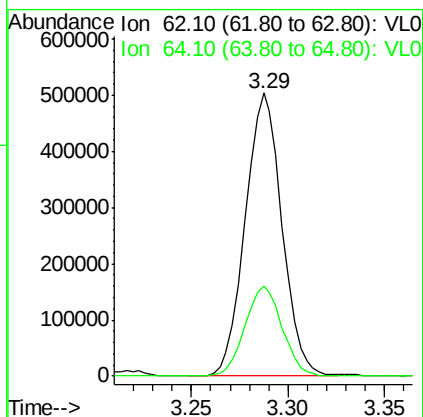
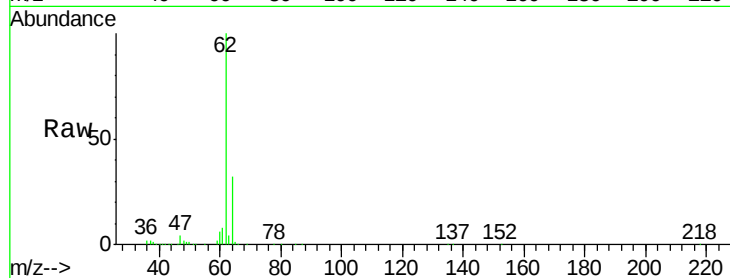
VL0520ABS01

Tot Ion: 62 Resp: 665823

Ion Ratio Lower Upper

62 100

64 32.1 26.4 39.6



#6

Bromomethane

Concen: 9.774 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033723.D

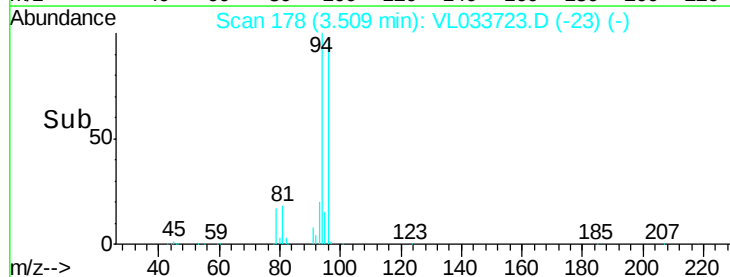
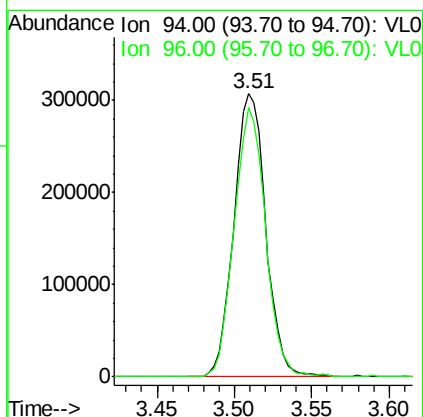
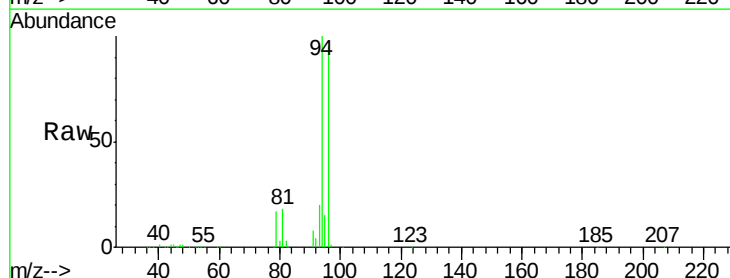
Acq: 20 May 2019 13:33

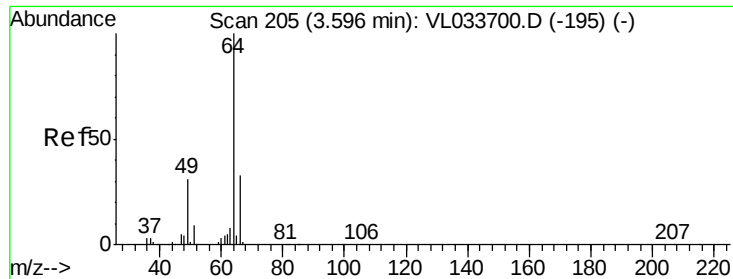
Tgt Ion: 94 Resp: 437301

Ion Ratio Lower Upper

94 100

96 95.0 73.6 110.4





#7

Chloroethane

Concen: 9.741 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

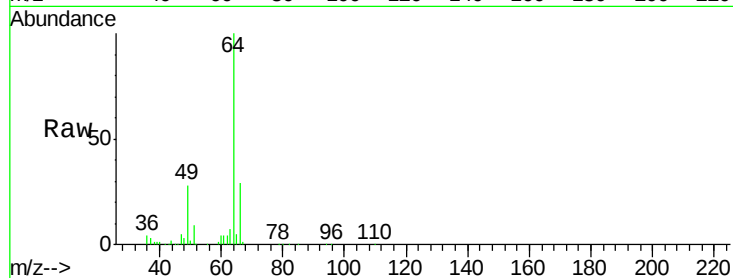
VL0520ABS01

Tot Ion: 64 Resp: 253857

Ion Ratio Lower Upper

64 100

66 28.8 26.6 40.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.59

200000

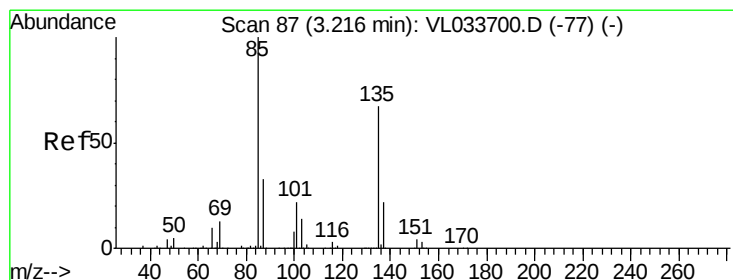
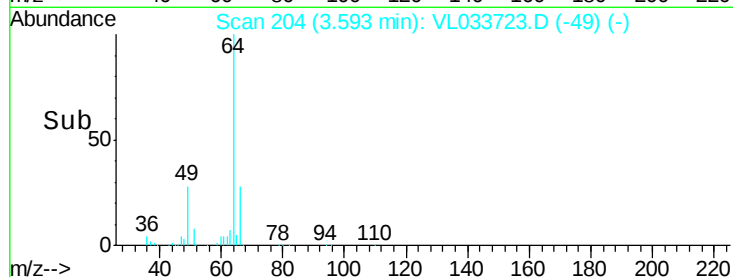
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.162 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033723.D

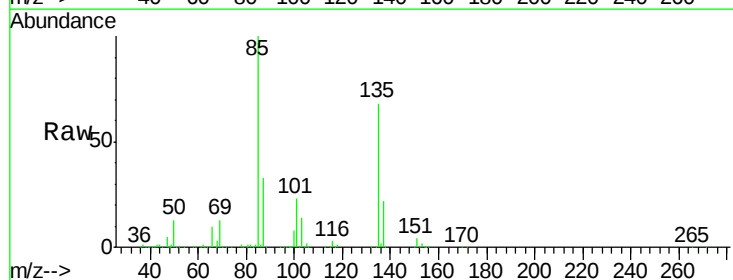
Acq: 20 May 2019 13:33

Tgt Ion: 85 Resp: 1710442

Ion Ratio Lower Upper

85 100

135 67.3 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

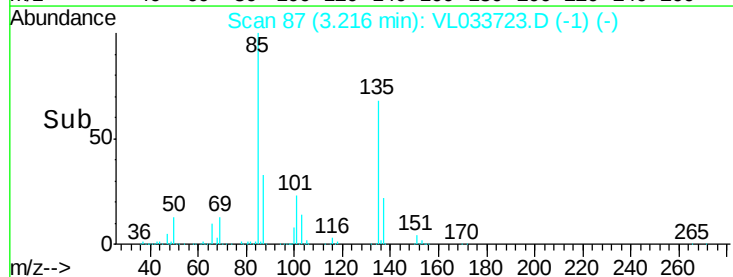
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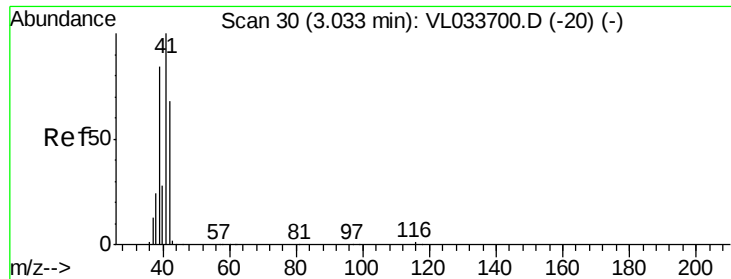
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500000

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Time-->





#9

Propene

Concen: 9.440 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

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ClientSampleId :

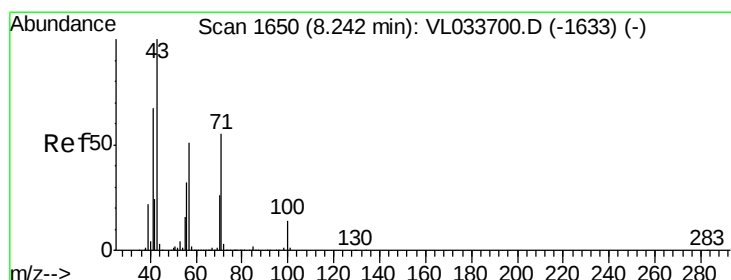
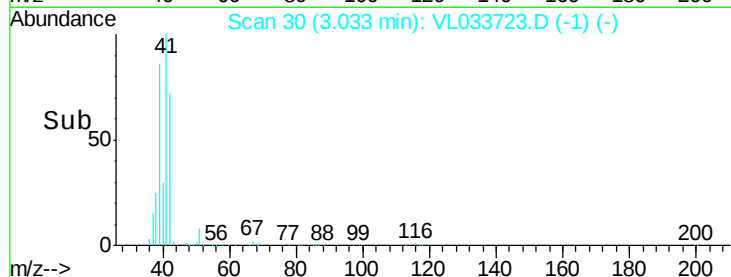
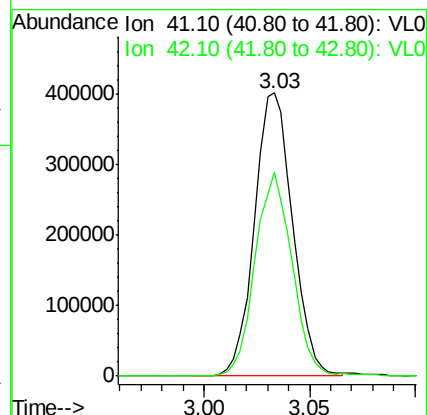
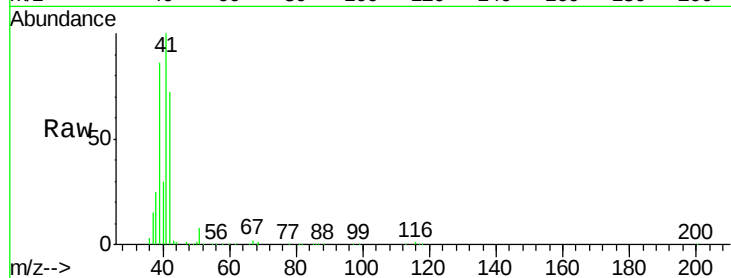
VL0520ABS01

Tot Ion: 41 Resp: 505353

Ion Ratio Lower Upper

41 100

42 70.5 56.1 84.1



#10

Heptane

Concen: 8.783 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VL033723.D

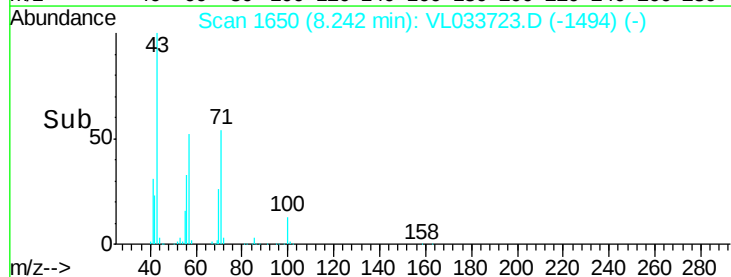
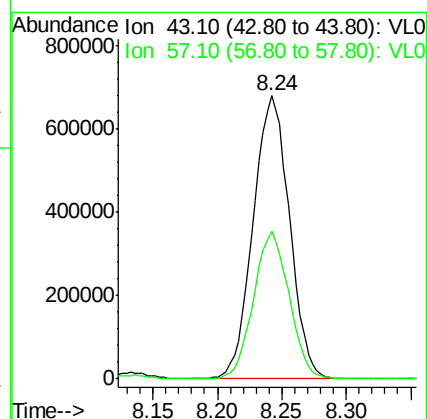
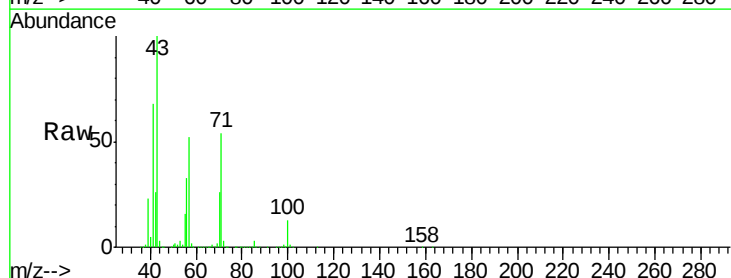
Acq: 20 May 2019 13:33

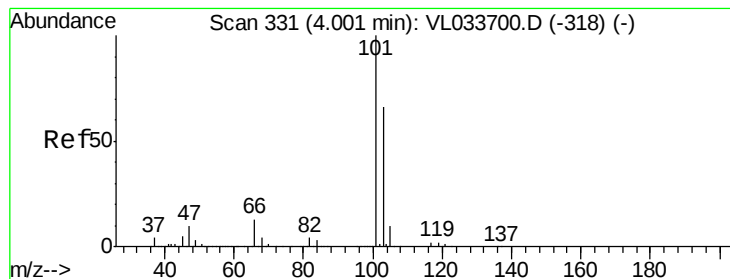
Tgt Ion: 43 Resp: 1331408

Ion Ratio Lower Upper

43 100

57 51.3 41.4 62.0





#11

Trichlorofluoromethane

Concen: 9.456 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

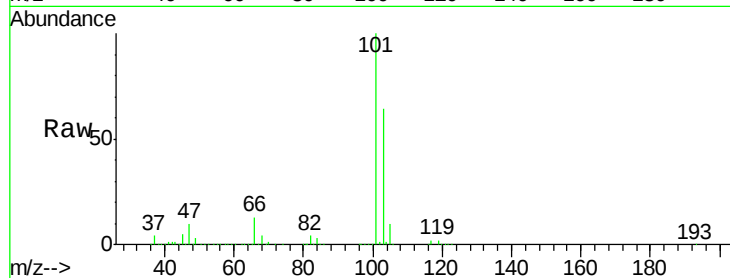
VL0520ABS01

Tot Ion:101 Resp: 2089861

Ion Ratio Lower Upper

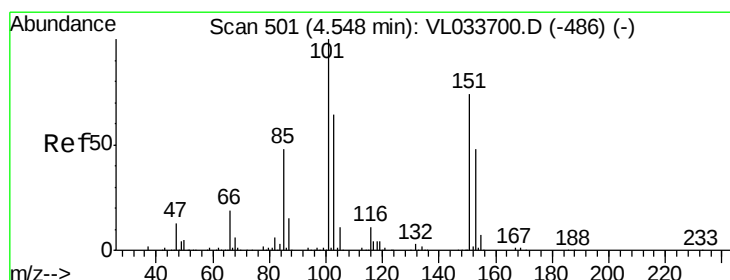
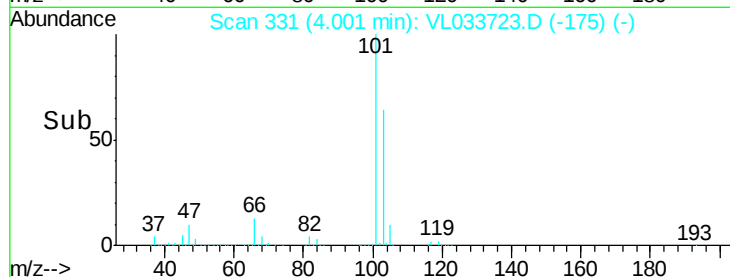
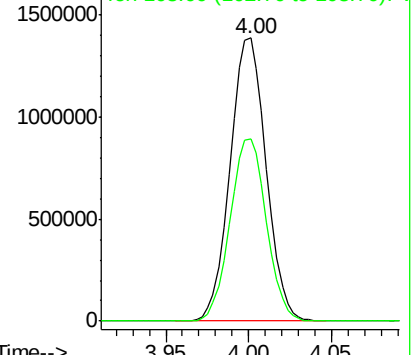
101 100

103 64.3 52.6 78.8



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: 8.935 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033723.D

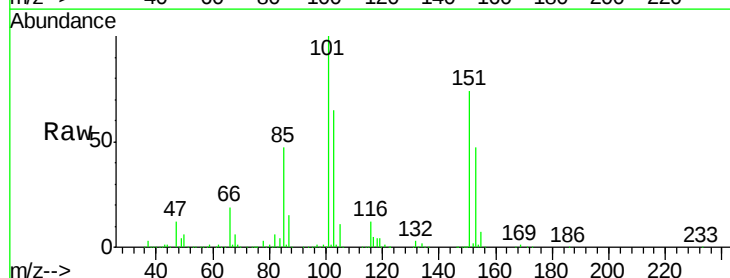
Acq: 20 May 2019 13:33

Tgt Ion:101 Resp: 1378865

Ion Ratio Lower Upper

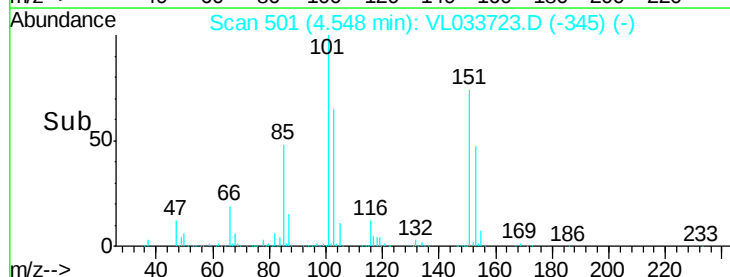
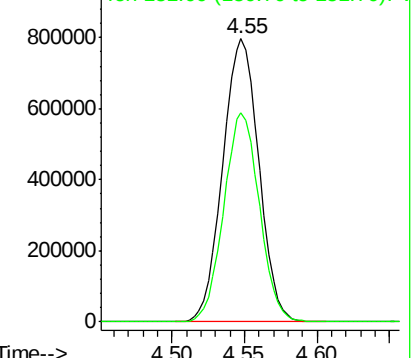
101 100

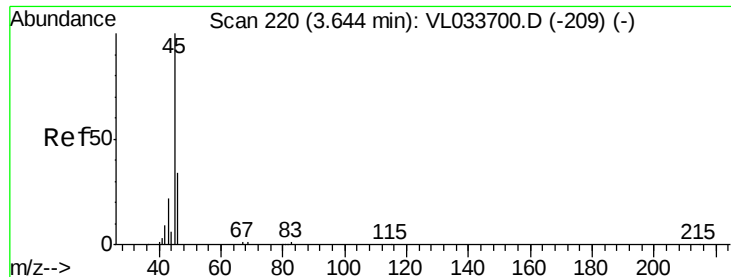
151 73.0 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 8.319 ppbv

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

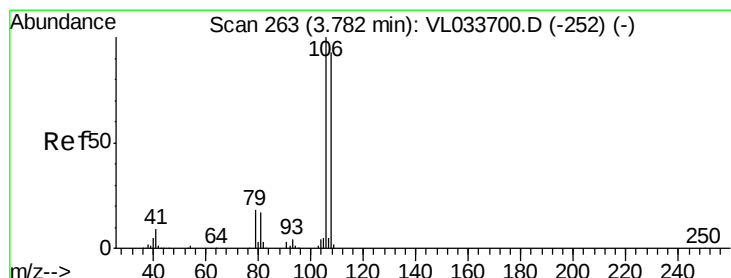
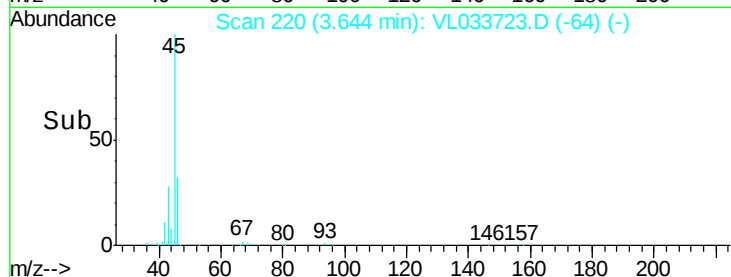
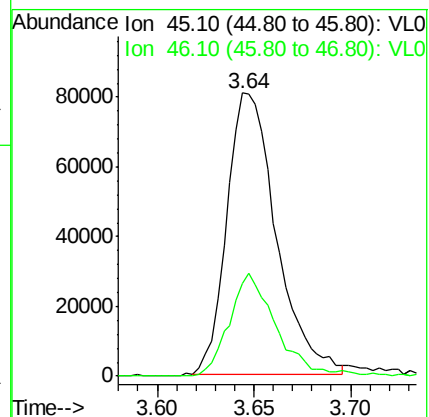
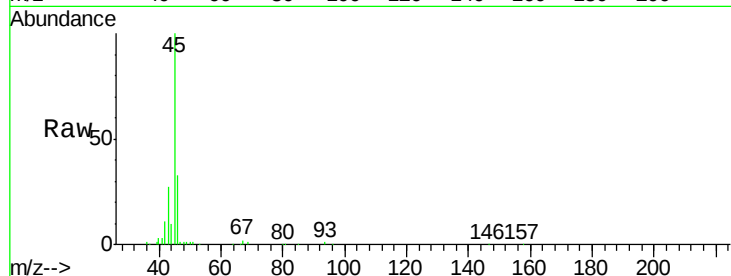
VL0520ABS01

Tot Ion: 45 Resp: 143931

Ion Ratio Lower Upper

45 100

46 35.0 14.8 59.0



#14

Bromoethene

Concen: 9.878 ppbv

RT: 3.78 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

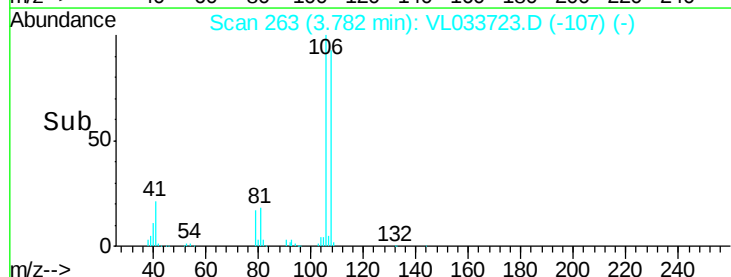
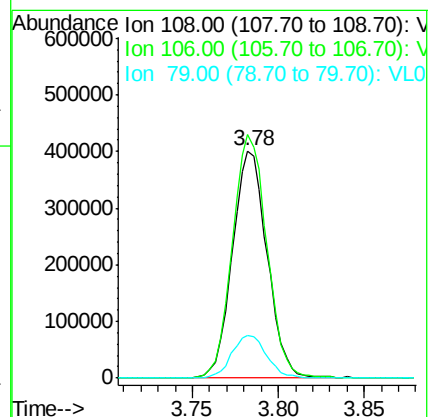
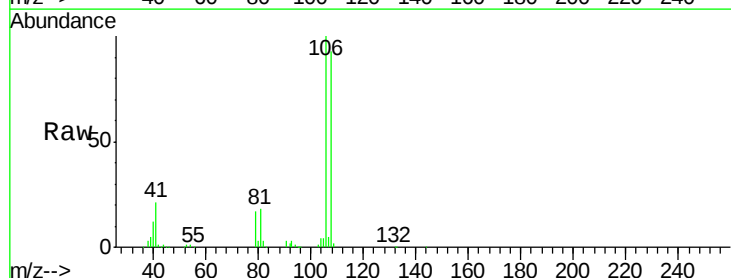
Tgt Ion: 108 Resp: 560418

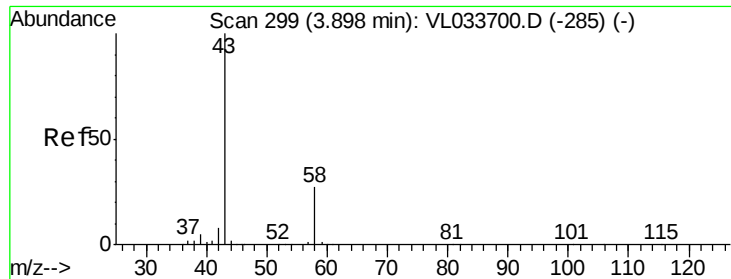
Ion Ratio Lower Upper

108 100

106 107.5 86.5 129.7

79 19.3 15.1 22.7





#15

Acetone

Concen: 8.800 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

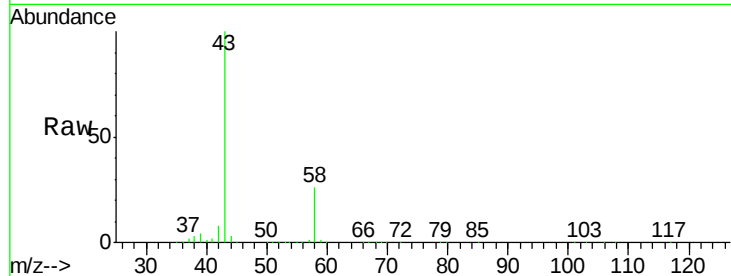
VL0520ABS01

Tot Ion: 43 Resp: 1341603

Ion Ratio Lower Upper

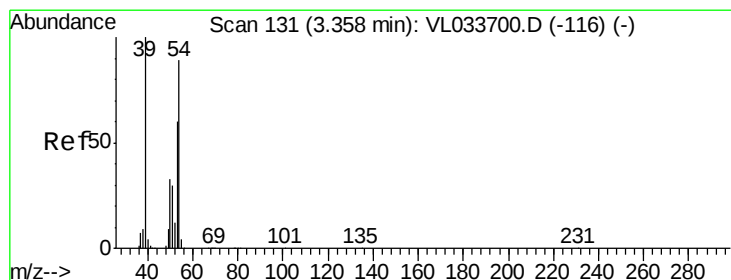
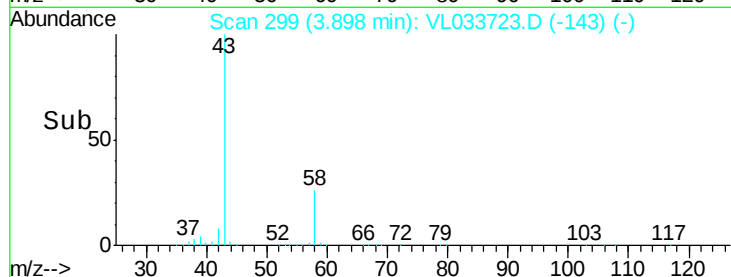
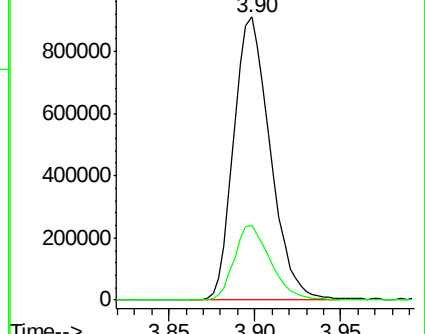
43 100

58 26.4 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.873 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033723.D

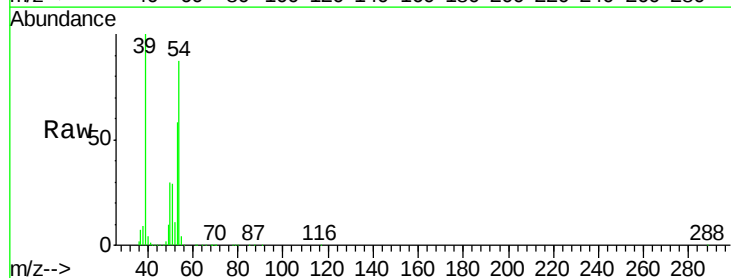
Acq: 20 May 2019 13:33

Tgt Ion: 39 Resp: 599369

Ion Ratio Lower Upper

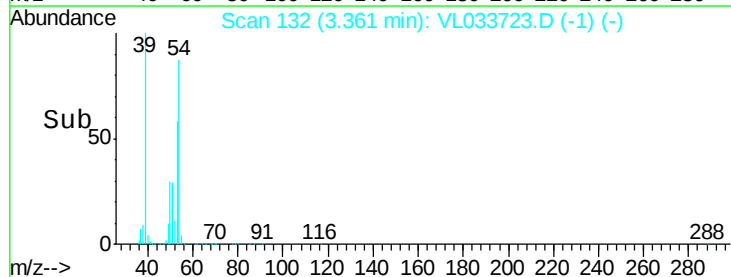
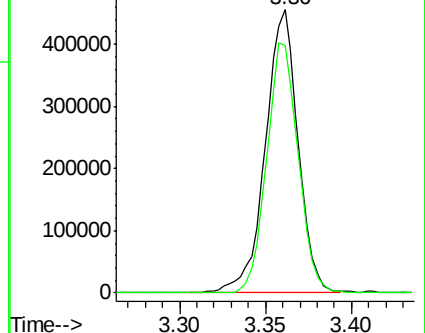
39 100

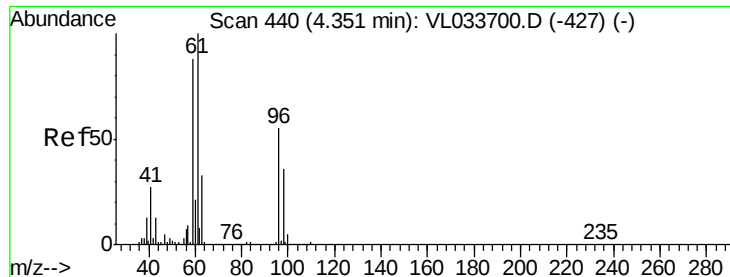
54 85.5 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



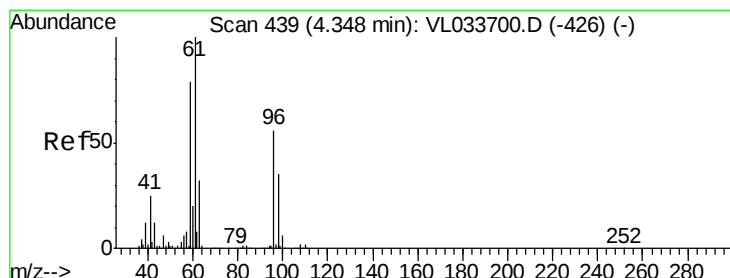
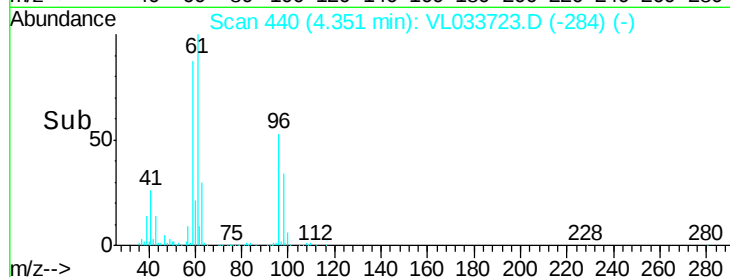
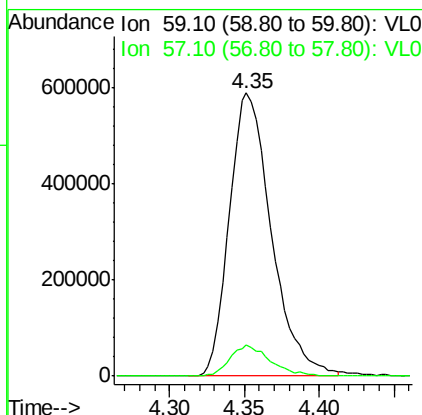
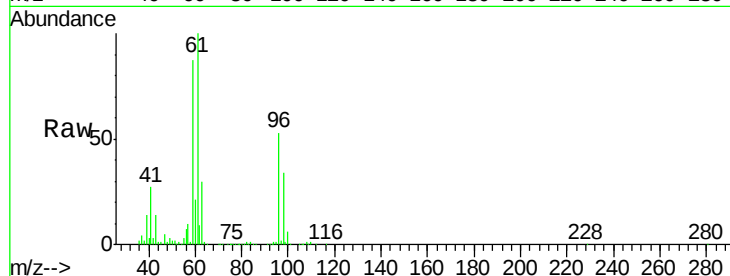


#17

tert-Butyl alcohol
 Concen: 9.379 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. 0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0520ABS01

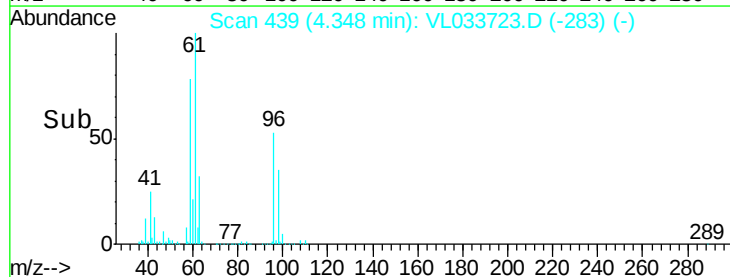
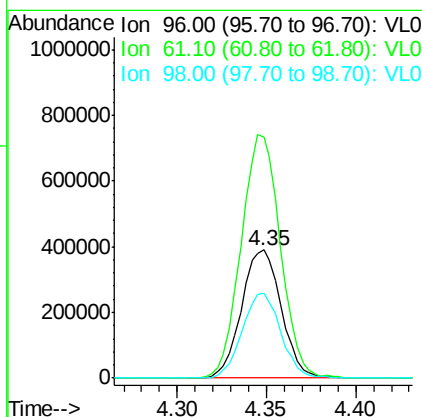
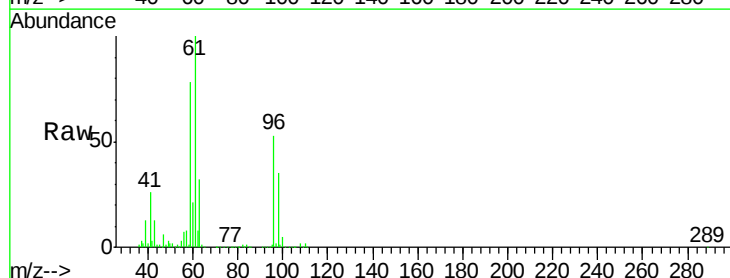
Tot Ion: 59 Resp: 1156203
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.4 12.6

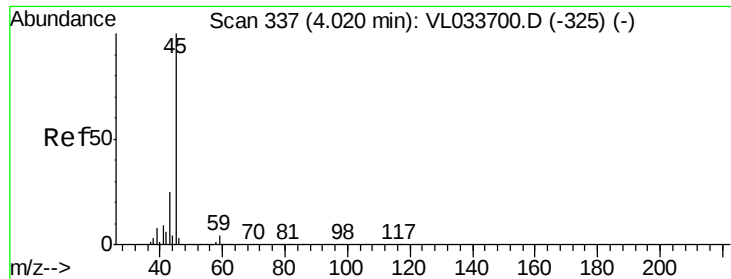


#18

1,1-Dichloroethene
 Concen: 9.283 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. 0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

Tgt Ion: 96 Resp: 604715
 Ion Ratio Lower Upper
 96 100
 61 188.1 143.1 214.7
 98 66.1 49.5 74.3





#19

Isopropyl Alcohol

Concen: 9.143 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

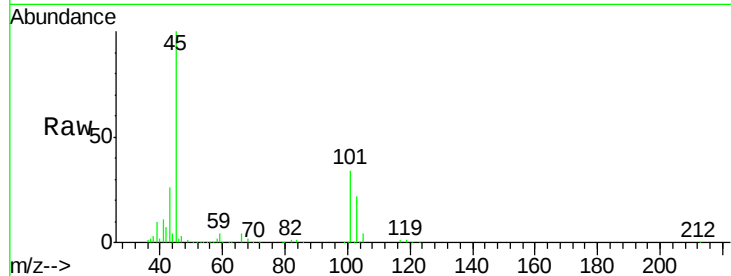
VL0520ABS01

Tot Ion: 45 Resp: 898704

Ion Ratio Lower Upper

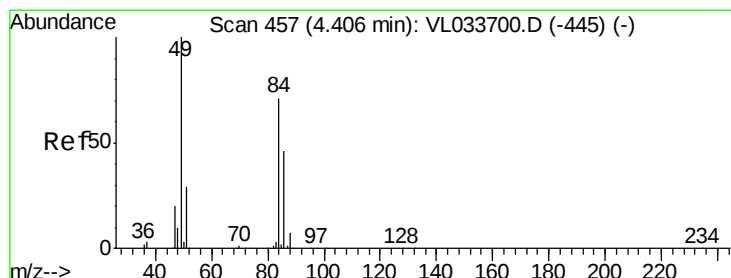
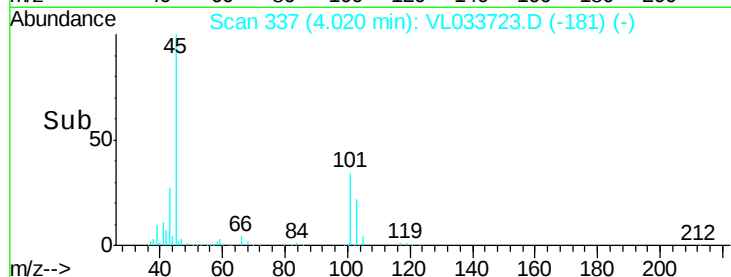
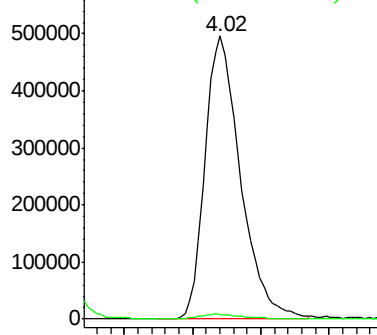
45 100

58 2.3 1.6 2.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.699 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Tgt Ion: 84 Resp: 510607

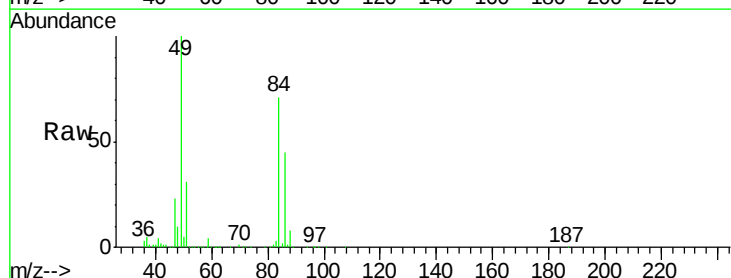
Ion Ratio Lower Upper

84 100

49 140.1 112.8 169.2

51 42.8 33.4 50.0

86 63.2 51.7 77.5

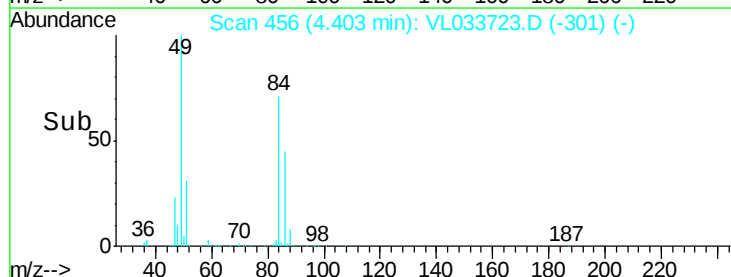
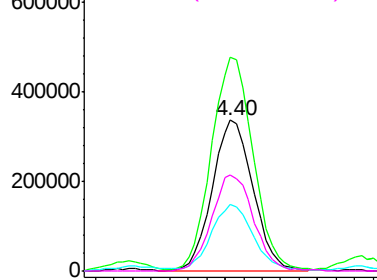


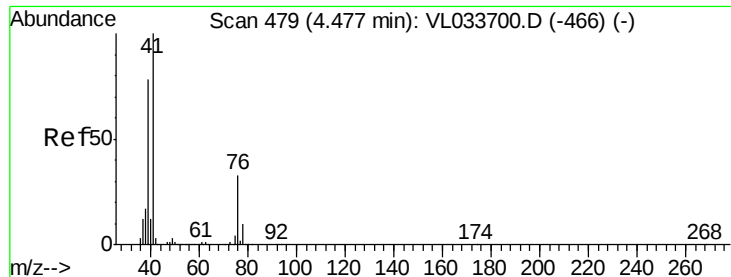
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

Allvl Chloride

Concen: 9.506 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

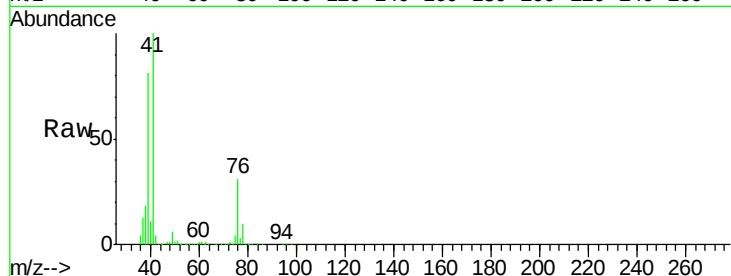
Tot Ion: 41 Resp: 903860

Ion Ratio Lower Upper

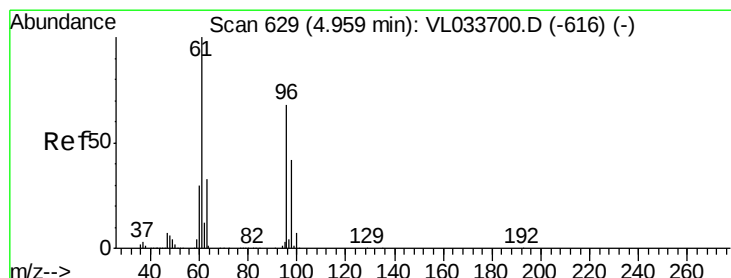
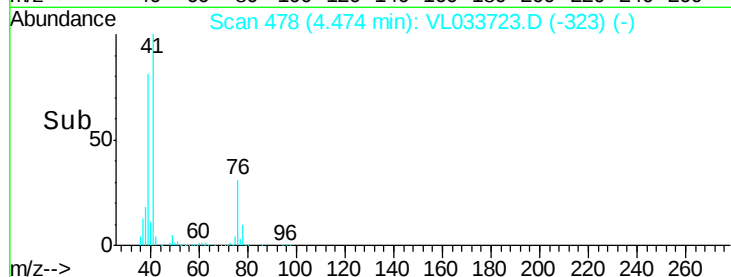
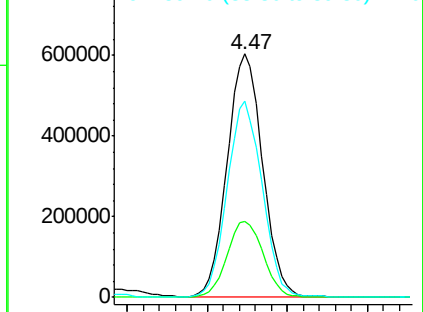
41 100

76 32.2 25.9 38.9

39 80.3 64.6 97.0



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



#22

trans-1,2-Dichloroethene

Concen: 9.332 ppbv

RT: 4.96 min Scan# 629

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

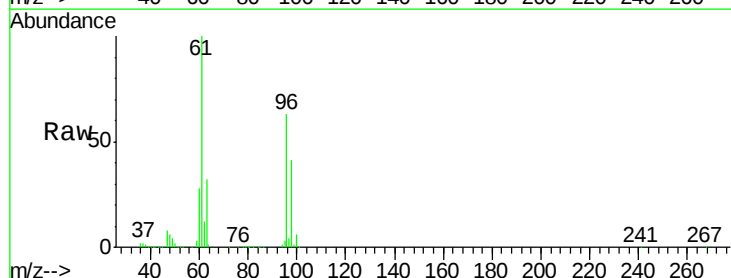
Tgt Ion: 96 Resp: 623114

Ion Ratio Lower Upper

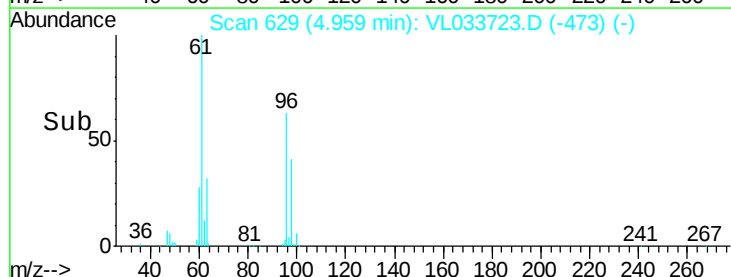
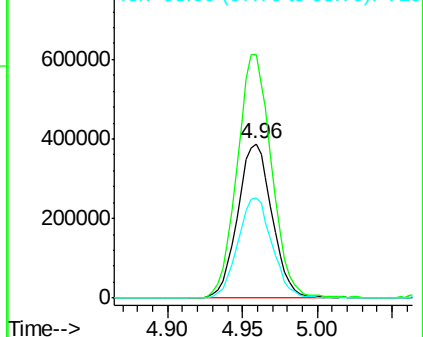
96 100

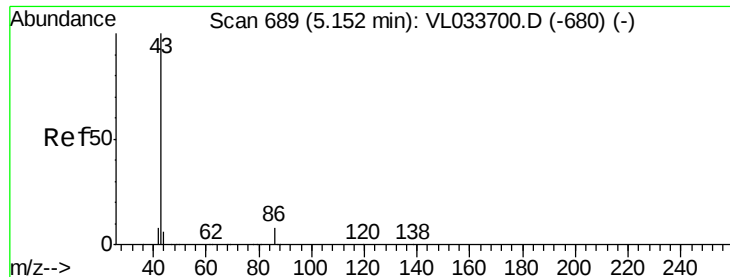
61 158.0 116.8 175.2

98 64.9 49.4 74.0



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





#23

Vinyl Acetate

Concen: 9.992 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

Tot Ion: 43 Resp: 2008368

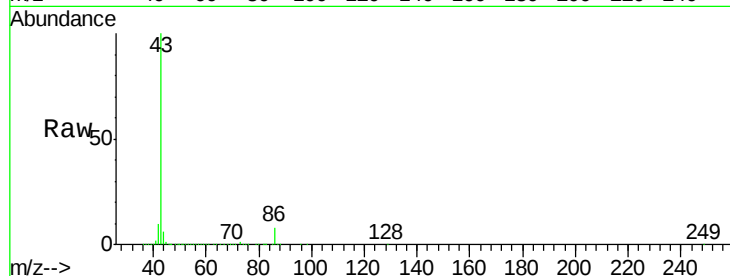
Ion Ratio Lower Upper

43 100

86 7.8 6.0 9.0

42 10.2 7.5 11.3

44 5.8 4.4 6.6

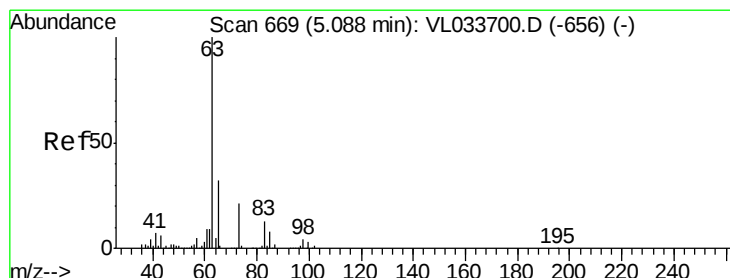
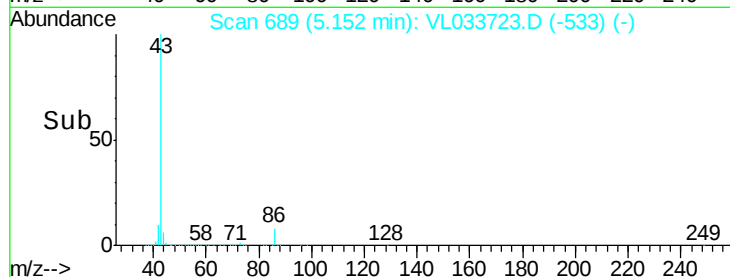
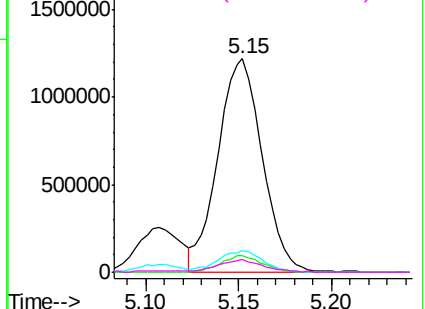


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.987 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

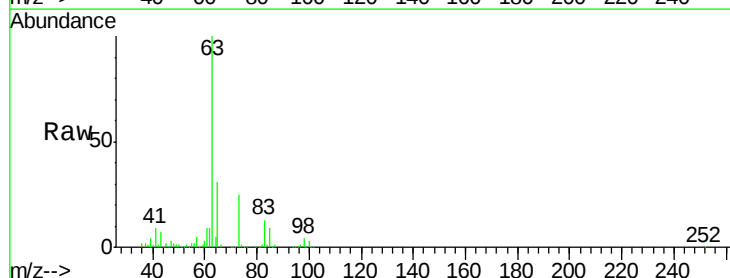
Tgt Ion: 63 Resp: 1373205

Ion Ratio Lower Upper

63 100

98 4.2 1.8 5.5

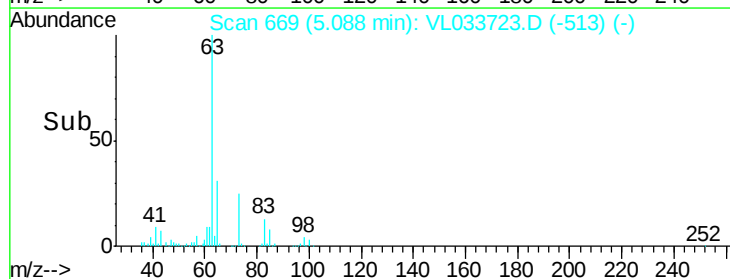
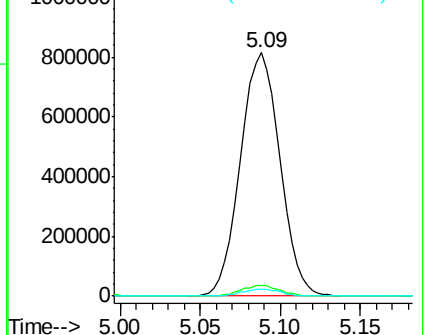
100 2.8 1.4 4.2

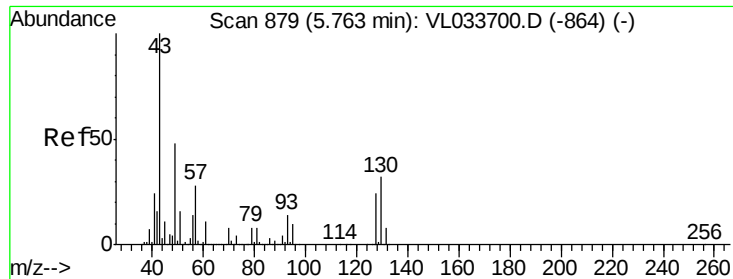


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



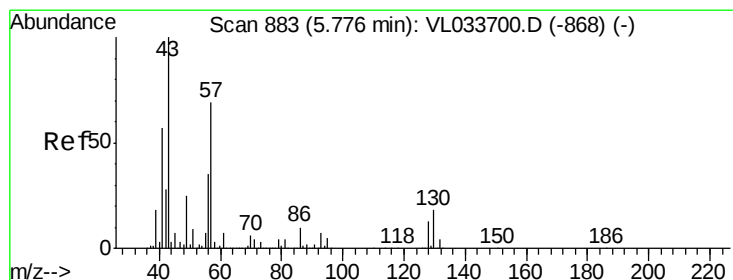
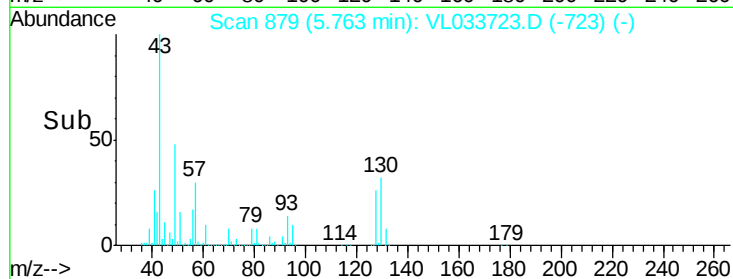
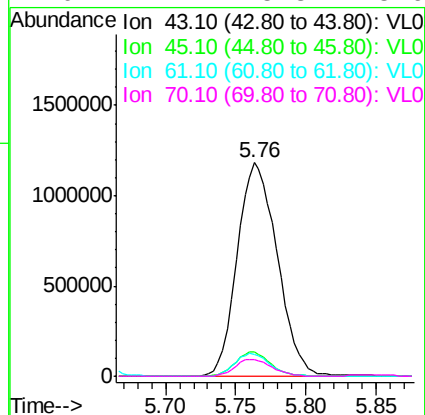
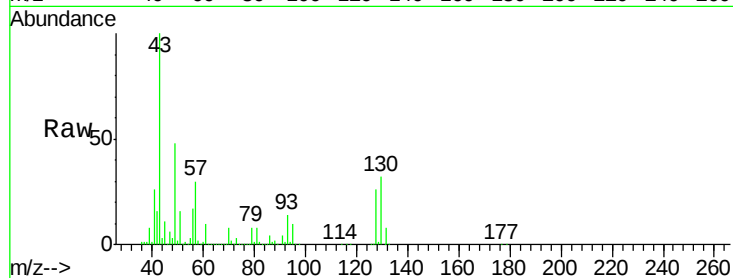


#25
Ethyl Acetate
Concen: 8.753 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VL0520ABS01

Tot Ion: 43 Resp: 2344153

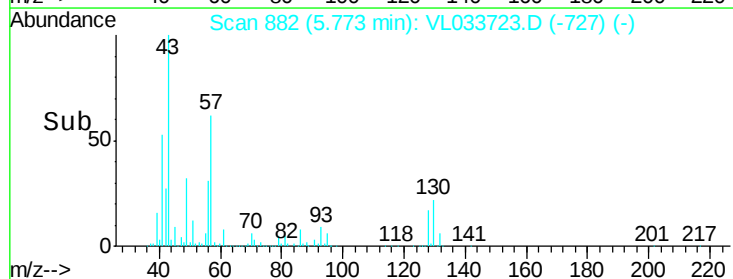
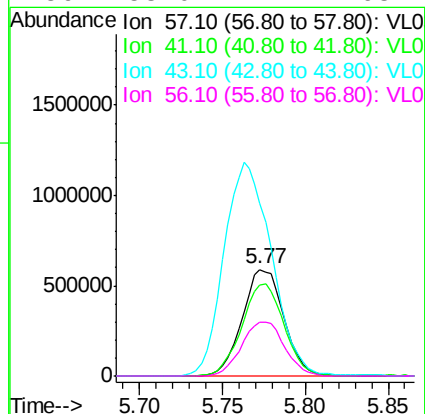
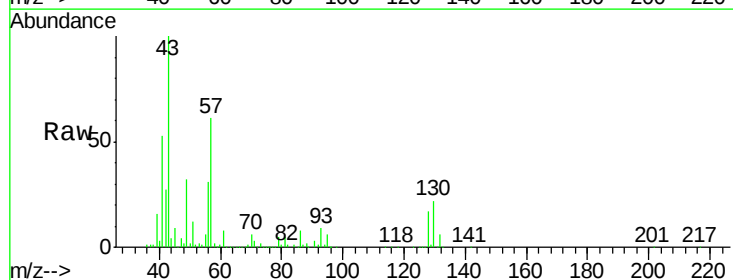
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.6	7.7	11.5
70	7.2	5.8	8.6

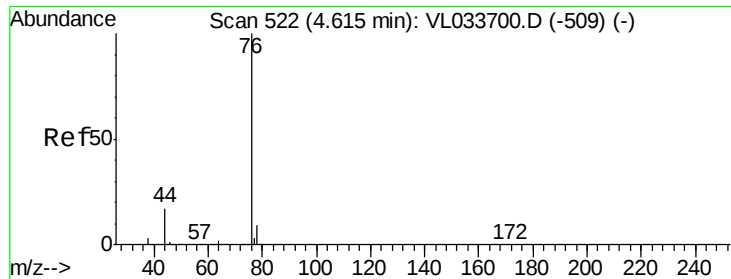


#26
Hexane
Concen: 8.870 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

Tgt Ion: 57 Resp: 1021149

Ion	Ratio	Lower	Upper
57	100		
41	88.4	69.8	104.6
43	231.0	181.8	272.6
56	53.0	42.1	63.1

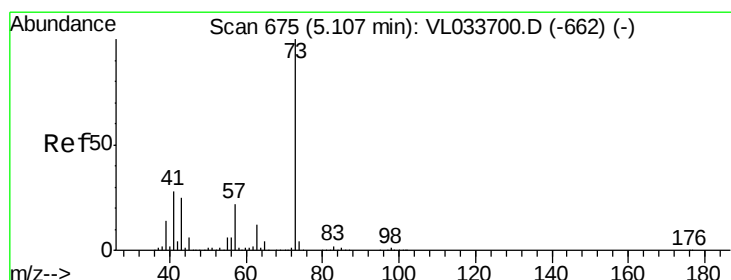
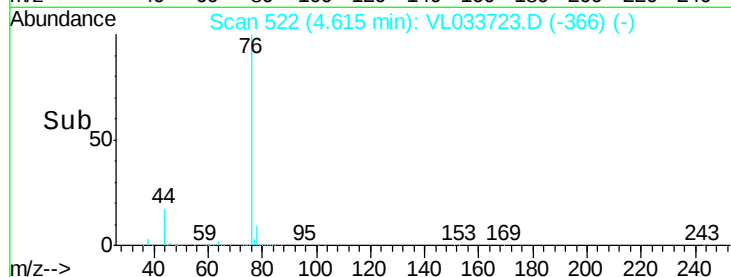
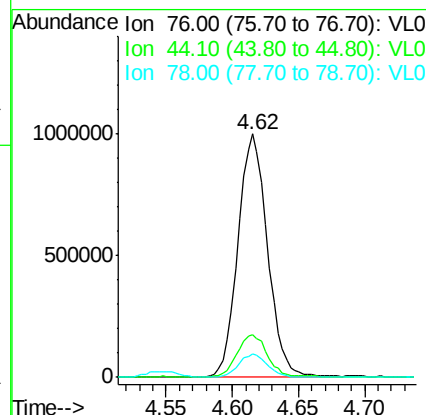
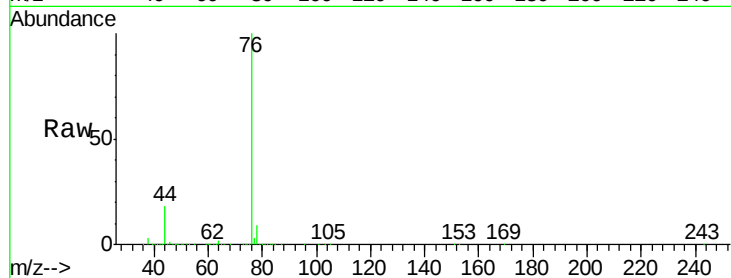




#27
Carbon Disulfide
Concen: 9.828 ppbv
RT: 4.62 min Scan# 522
Delta R.T. 0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

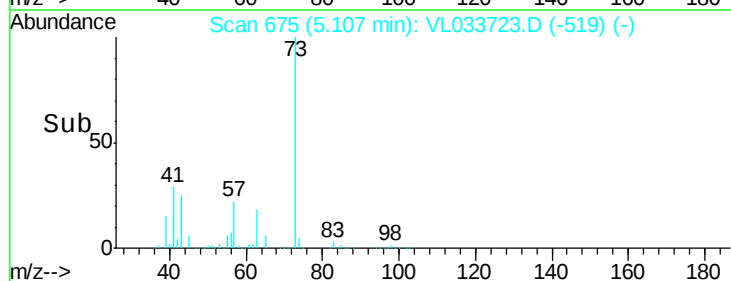
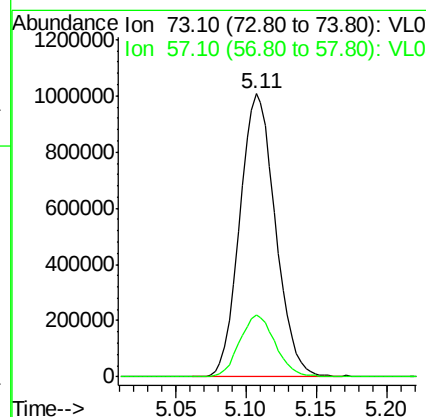
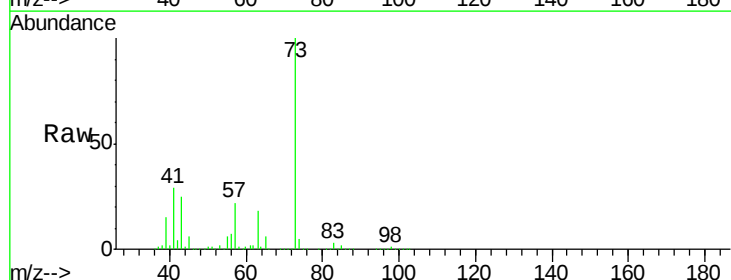
Instrument :
MSVOA_L
ClientSampleId :
VL0520ABS01

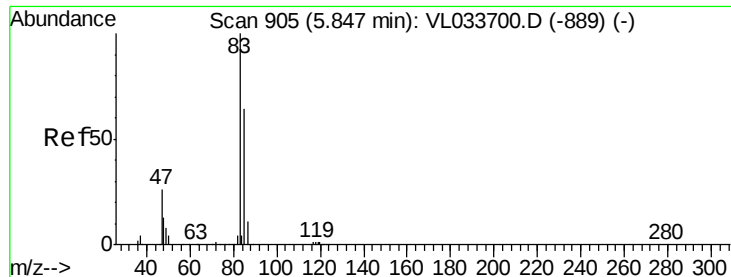
Tot Ion: 76 Resp: 1552301
Ion Ratio Lower Upper
76 100
44 18.1 13.8 20.8
78 9.4 7.4 11.0



#28
Methyl tert-Butyl Ether
Concen: 9.509 ppbv
RT: 5.11 min Scan# 675
Delta R.T. 0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

Tgt Ion: 73 Resp: 1784660
Ion Ratio Lower Upper
73 100
57 22.0 17.4 26.2

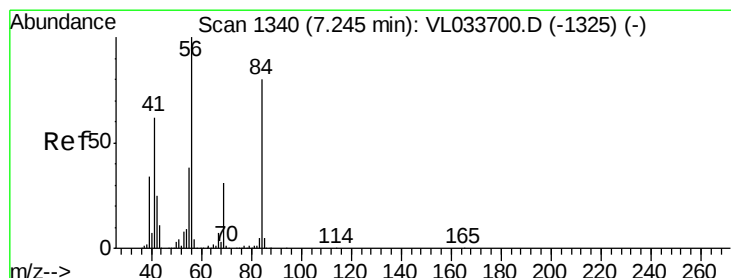
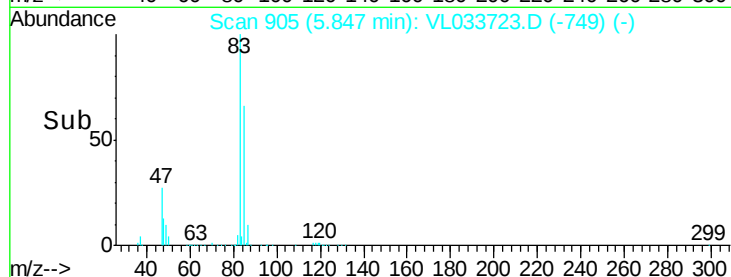
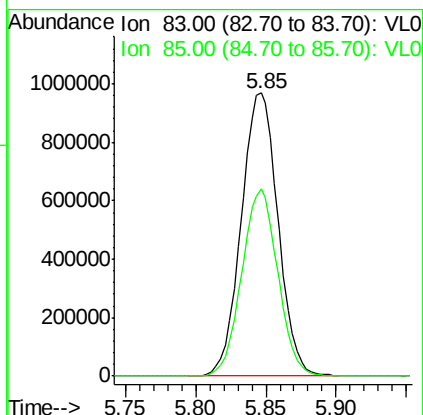
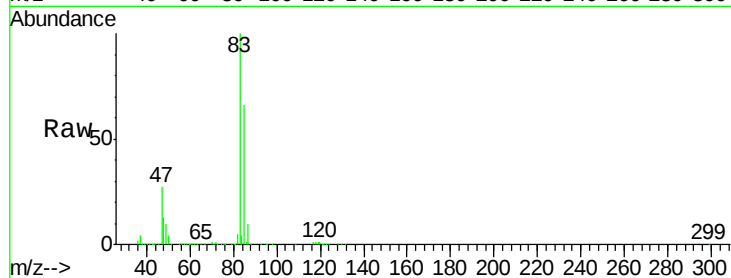




#29
Chloroform
Concen: 8.339 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

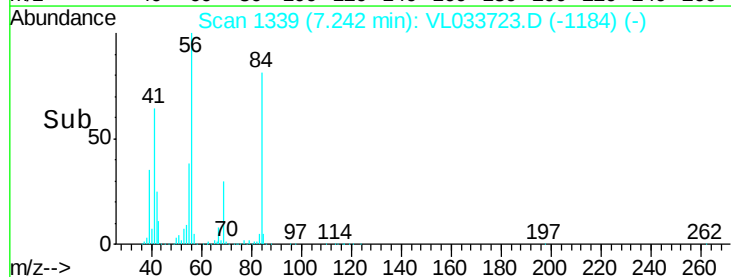
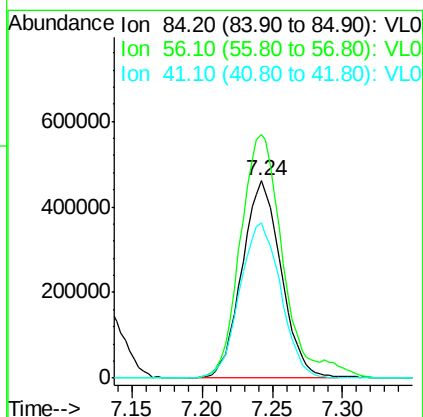
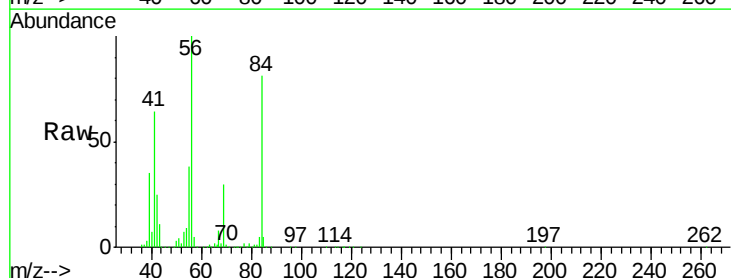
Instrument :
MSVOA_L
ClientSampleId :
VL0520ABS01

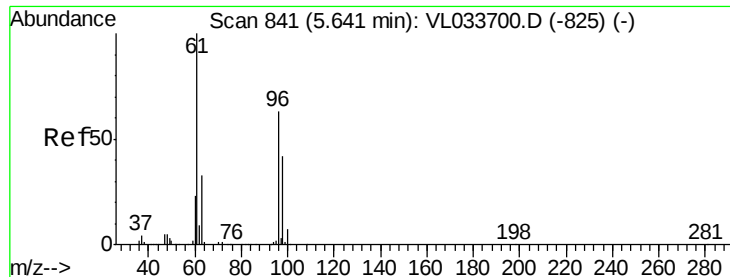
Tot Ion: 83 Resp: 1768485
Ion Ratio Lower Upper
83 100
85 66.1 51.5 77.3



#30
Cyclohexane
Concen: 9.302 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

Tgt Ion: 84 Resp: 900296
Ion Ratio Lower Upper
84 100
56 134.1 107.7 161.5
41 81.7 66.0 99.0





#31

cis-1,2-Dichloroethene

Concen: 9.453 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

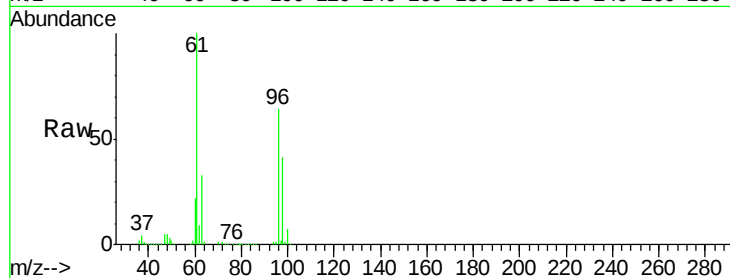
Tot Ion: 61 Resp: 1079096

Ion Ratio Lower Upper

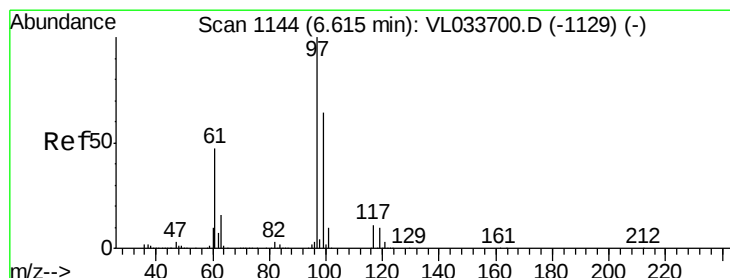
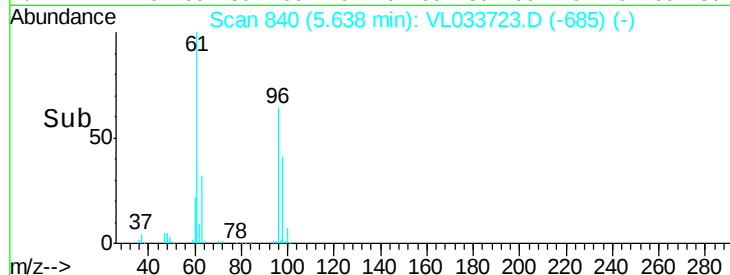
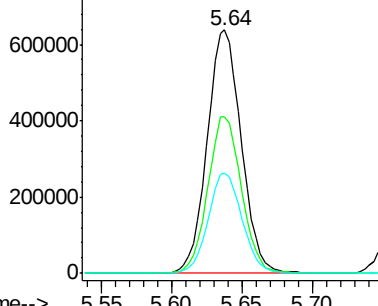
61 100

96 64.1 50.8 76.2

98 41.4 33.3 49.9



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: 8.799 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

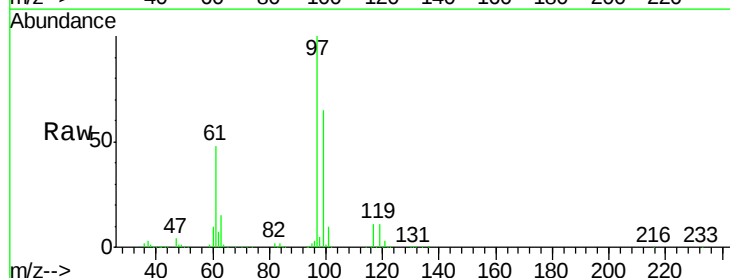
Tgt Ion: 97 Resp: 1863137

Ion Ratio Lower Upper

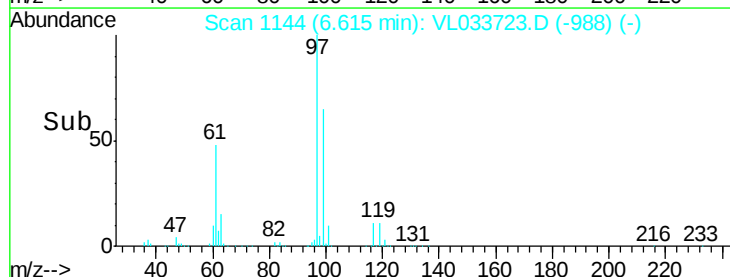
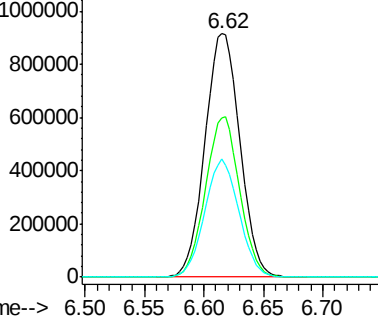
97 100

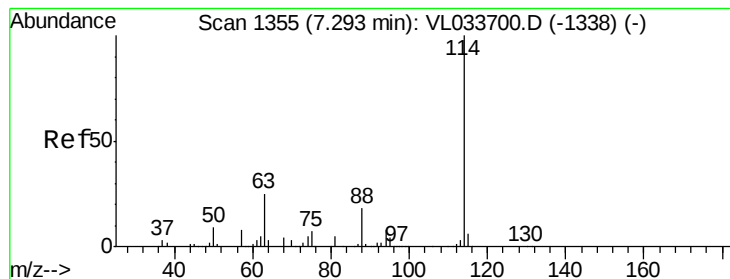
99 64.3 51.5 77.3

61 47.4 37.8 56.8



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: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

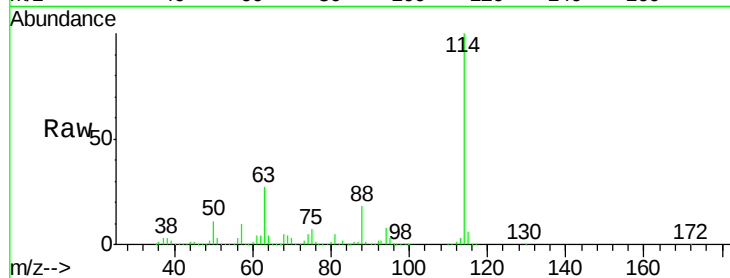
Tot Ion:114 Resp: 2628418

Ion Ratio Lower Upper

114 100

63 26.4 20.9 31.3

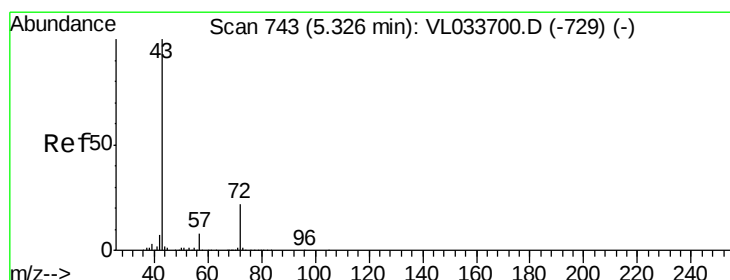
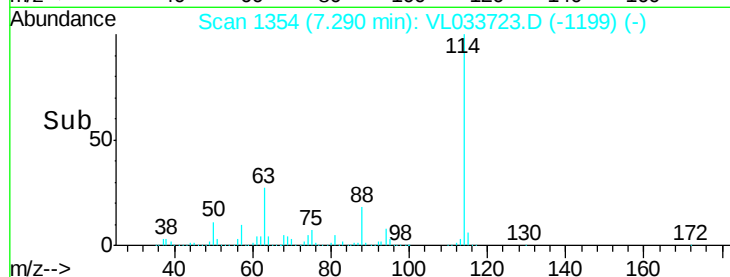
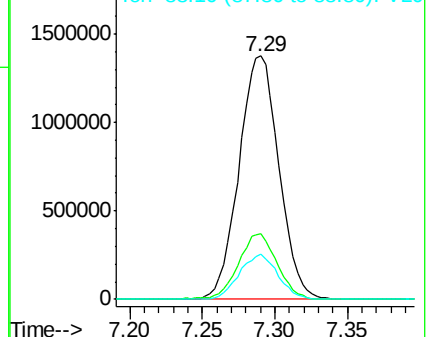
88 18.0 14.3 21.5



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: 9.538 ppbv

RT: 5.33 min Scan# 743

Delta R.T. 0.00 min

Lab File: VL033723.D

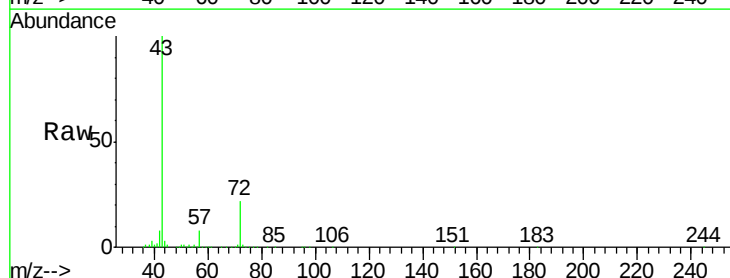
Acq: 20 May 2019 13:33

Tgt Ion: 43 Resp: 1553947

Ion Ratio Lower Upper

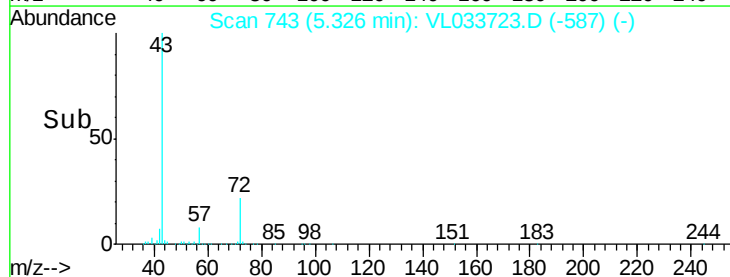
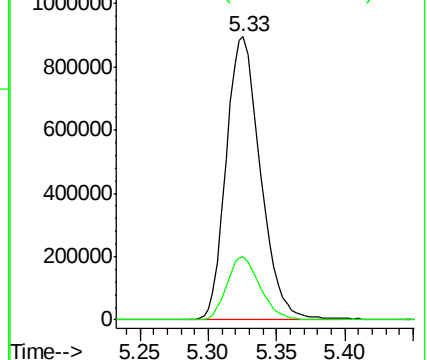
43 100

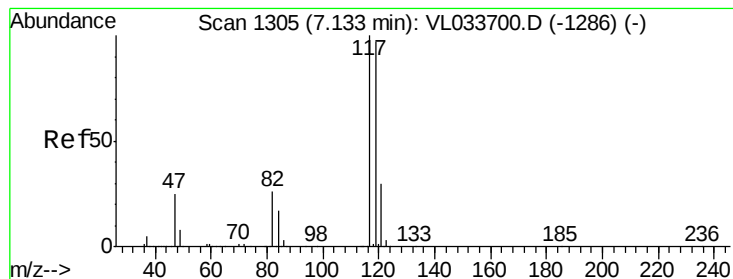
72 21.9 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.410 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

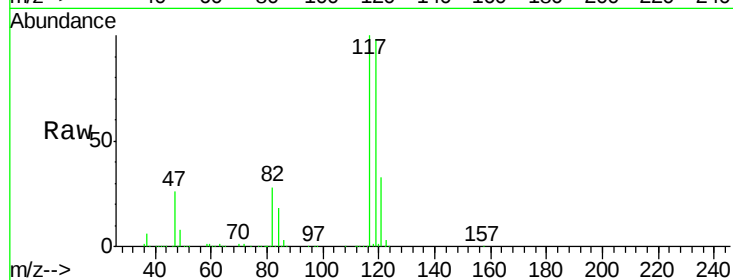
Tot Ion:117 Resp: 1981187

Ion Ratio Lower Upper

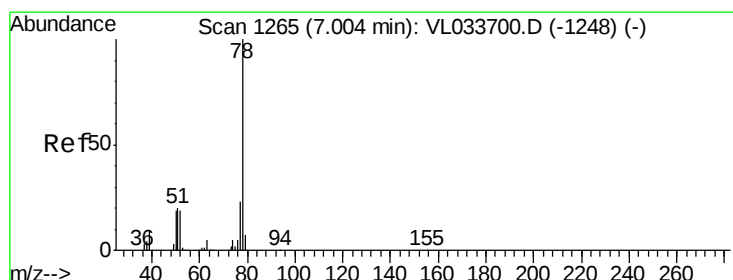
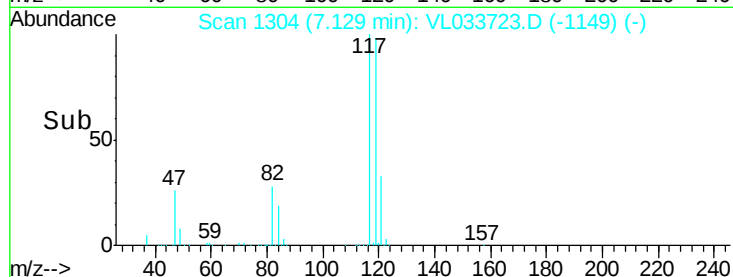
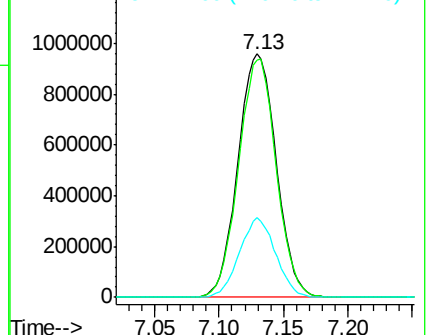
117 100

119 97.5 77.2 115.8

121 32.7 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: 9.257 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

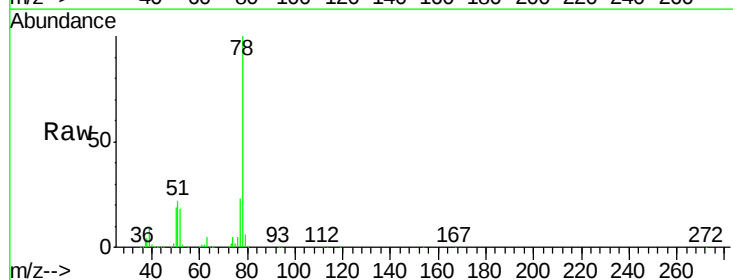
Tgt Ion: 78 Resp: 2213239

Ion Ratio Lower Upper

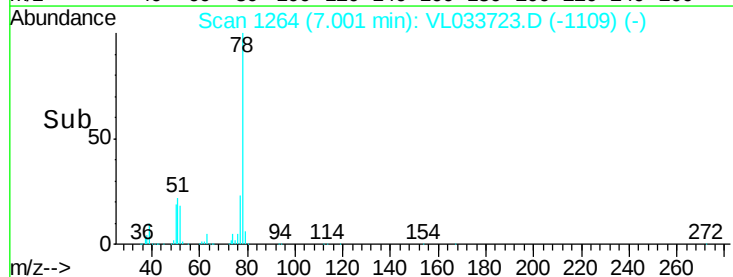
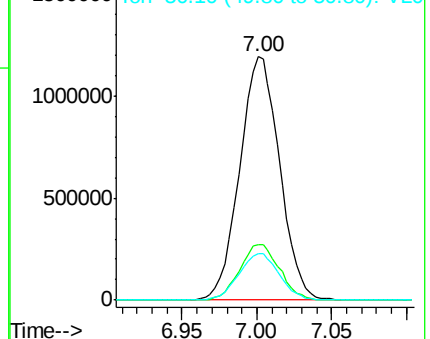
78 100

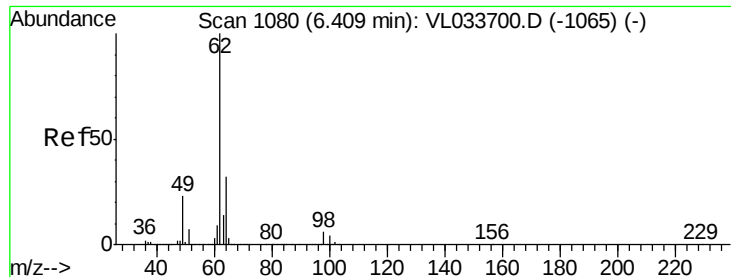
77 22.5 18.4 27.6

50 19.2 15.5 23.3



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

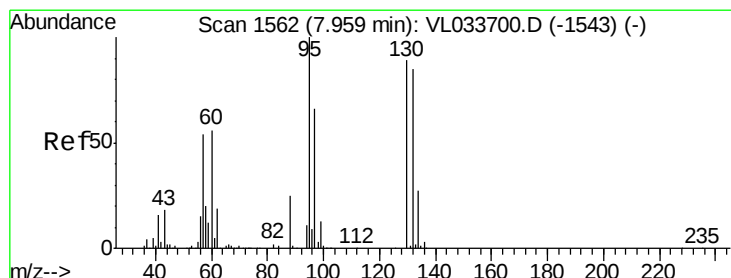
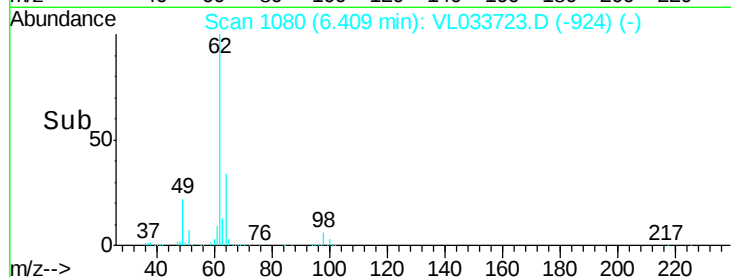
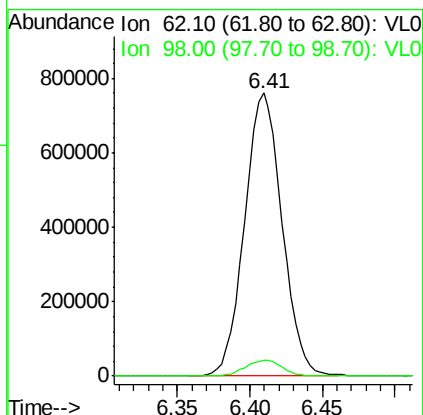
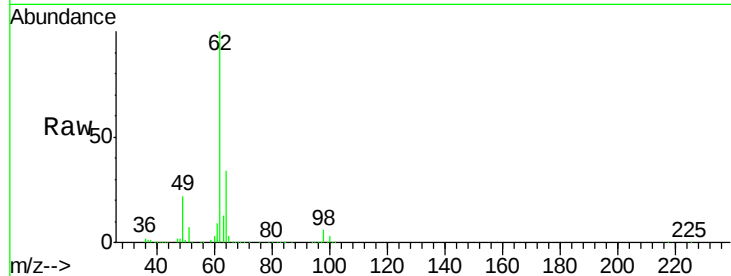




#37
 1,2-Dichloroethane
 Concen: 8.866 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

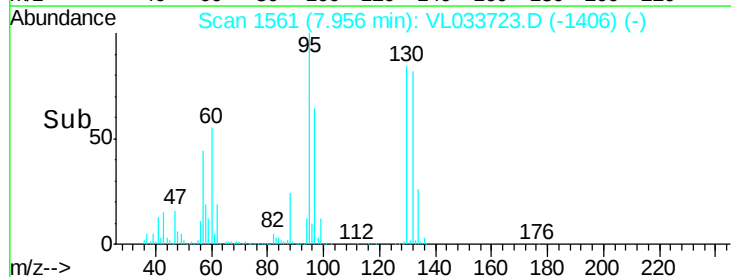
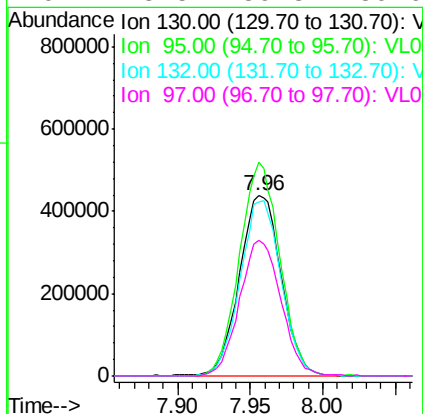
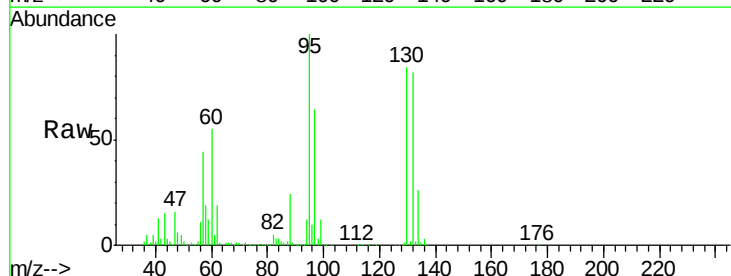
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0520ABS01

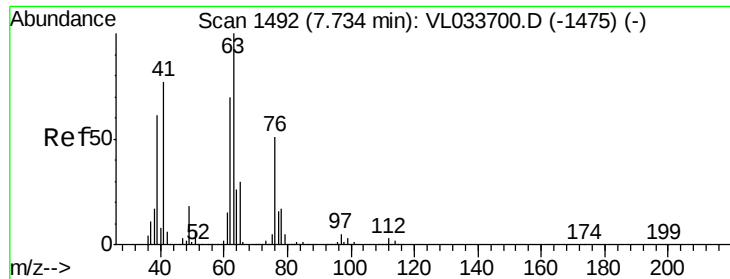
Tot Ion: 62 Resp: 1367390
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.5 6.7



#38
 Trichloroethene
 Concen: 9.821 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

Tgt Ion:130 Resp: 871329
 Ion Ratio Lower Upper
 130 100
 95 118.7 90.2 135.4
 132 96.9 76.4 114.6
 97 75.5 59.8 89.6

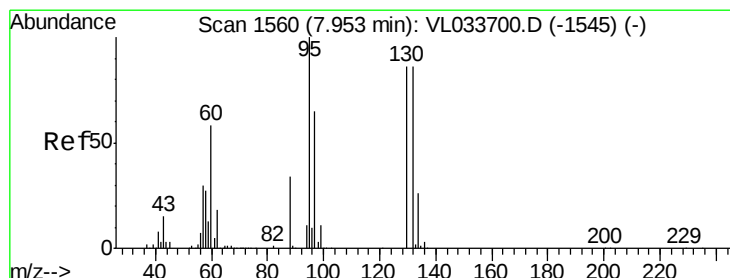
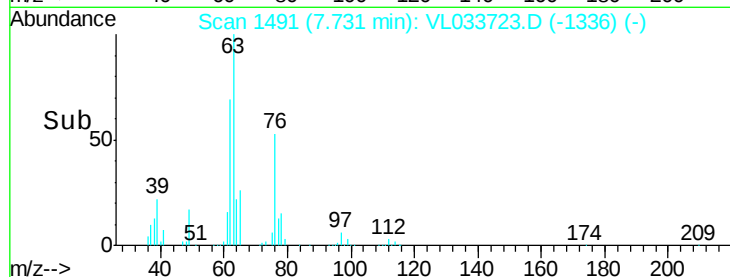
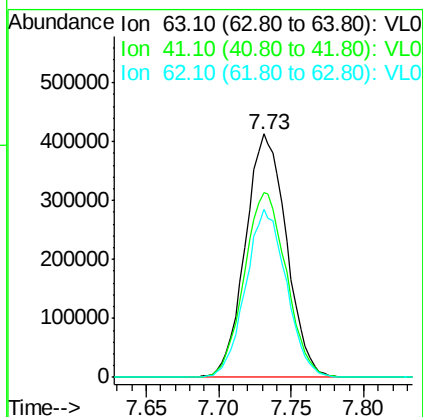
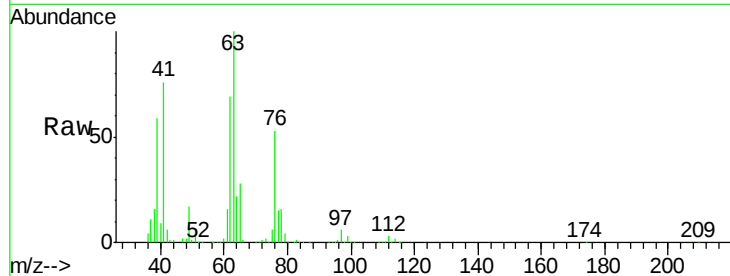




#39
 1,2-Dichloropropane
 Concen: 9.132 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. -0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

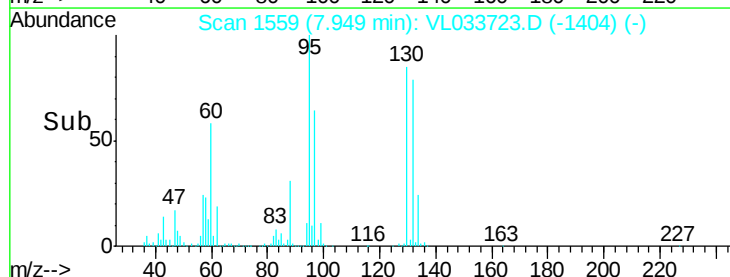
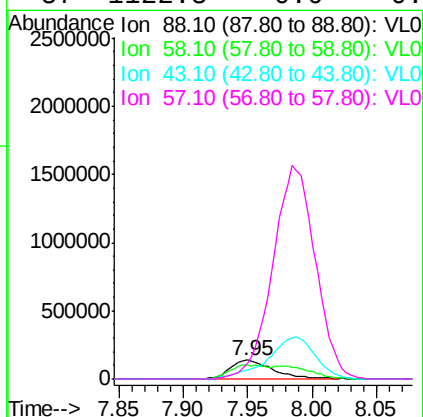
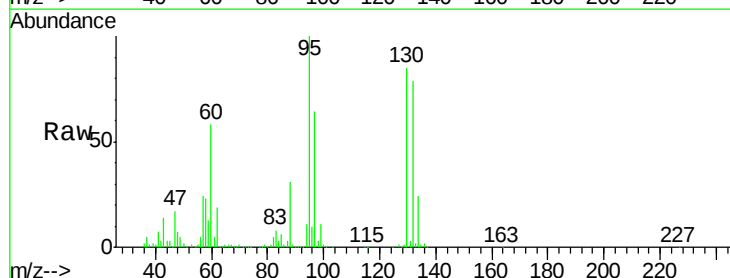
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0520ABS01

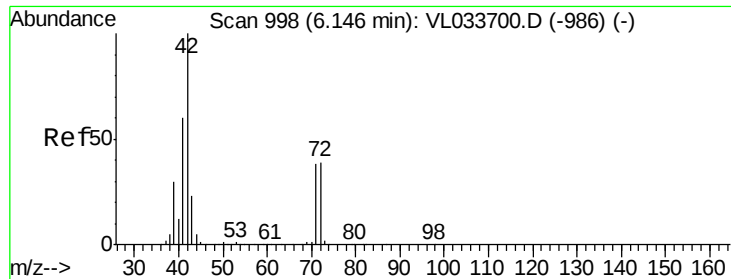
Tot Ion: 63 Resp: 814018
 Ion Ratio Lower Upper
 63 100
 41 75.8 61.5 92.3
 62 69.0 56.2 84.4



#40
 1,4-Dioxane
 Concen: 8.597 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

Tgt Ion: 88 Resp: 320586
 Ion Ratio Lower Upper
 88 100
 58 125.8 101.8 152.6
 43 249.6 0.0 0.0#
 57 1122.3 0.0 0.0#





#41

Tetrahydrofuran

Concen: 9.334 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

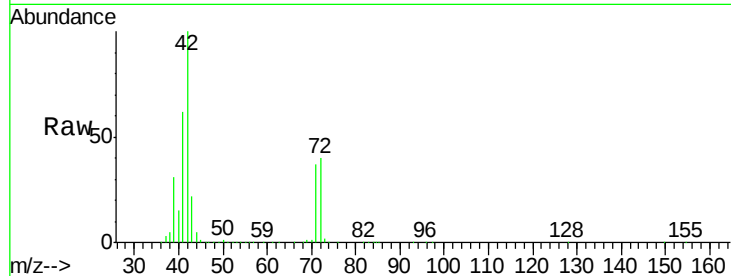
Tot Ion: 42 Resp: 852032

Ion Ratio Lower Upper

42 100

72 39.7 32.0 48.0

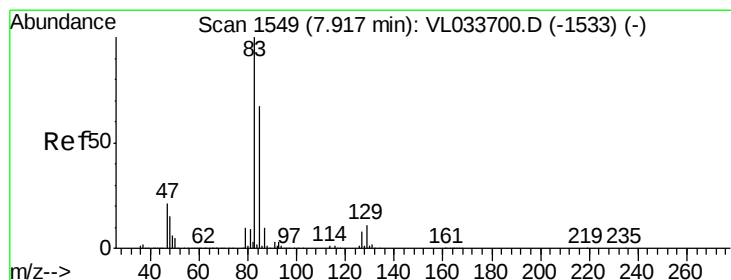
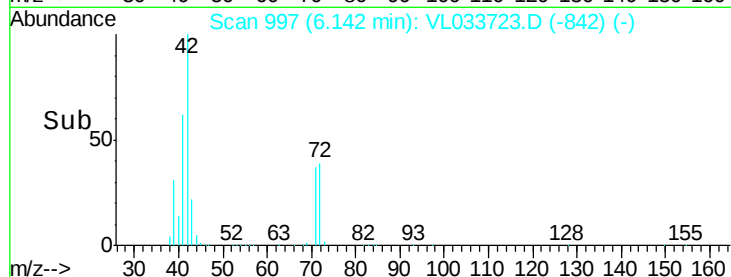
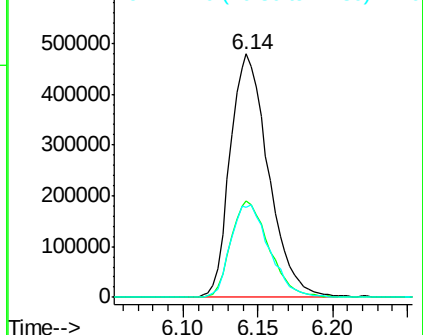
71 38.9 30.4 45.6



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: 9.105 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

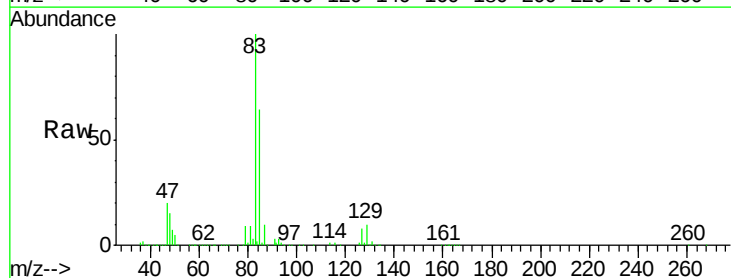
Tgt Ion: 83 Resp: 1922479

Ion Ratio Lower Upper

83 100

85 64.2 53.3 79.9

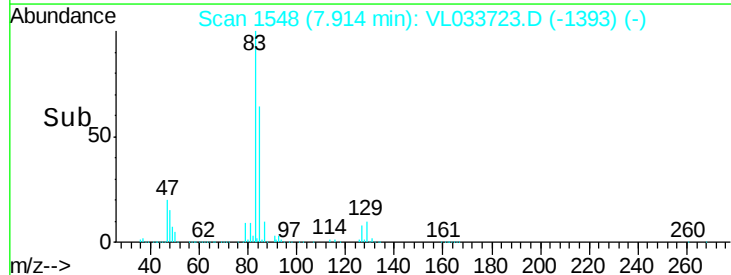
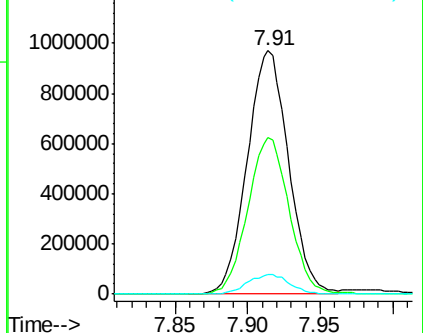
127 7.8 6.5 9.7

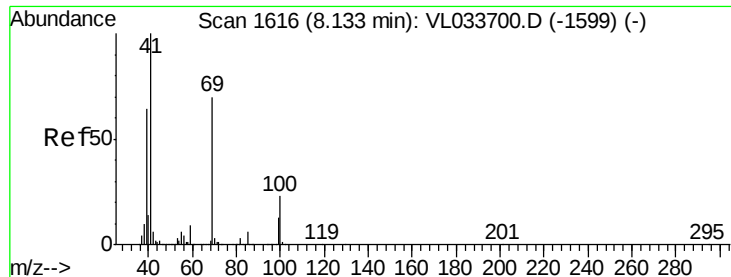


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

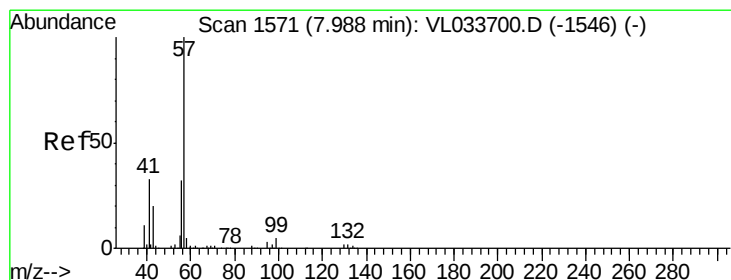
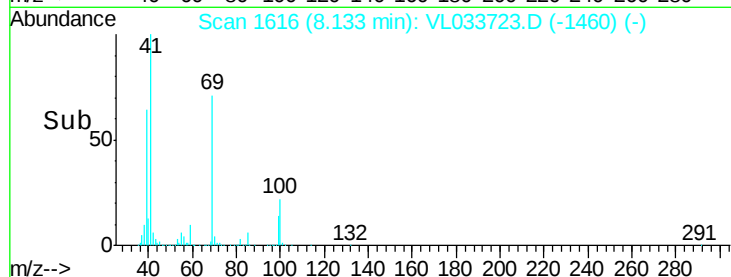
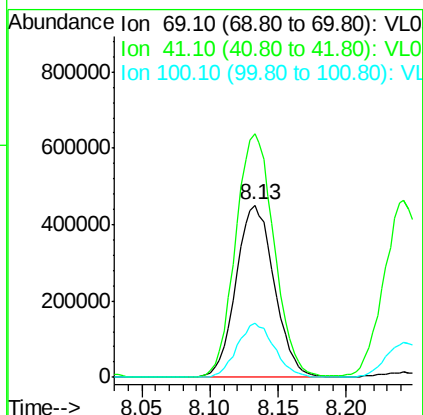
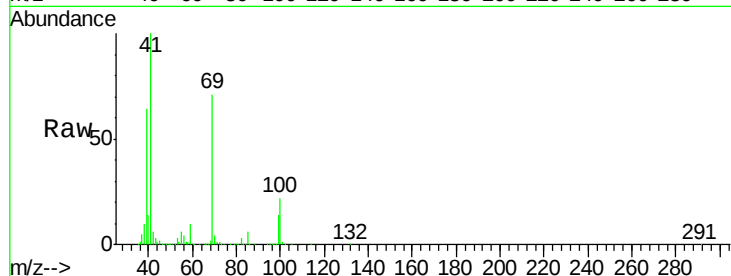




#43
Methvl Methacrylate
Concen: 9.978 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

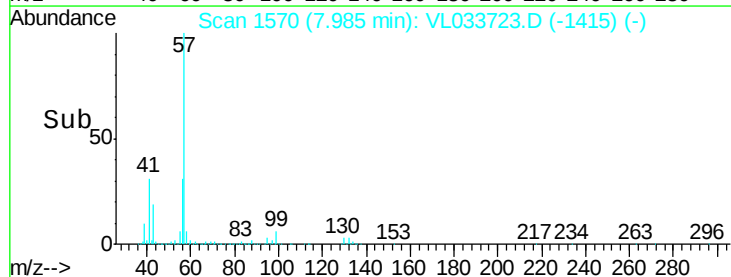
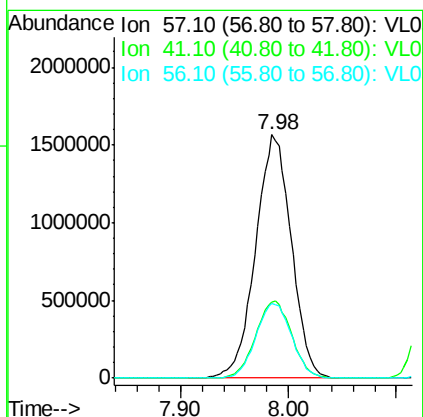
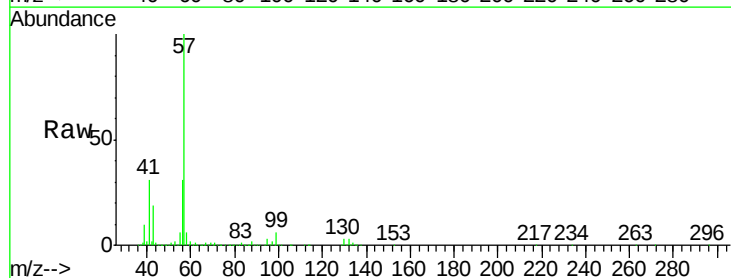
Instrument :
MSVOA_L
ClientSampleId :
VL0520ABS01

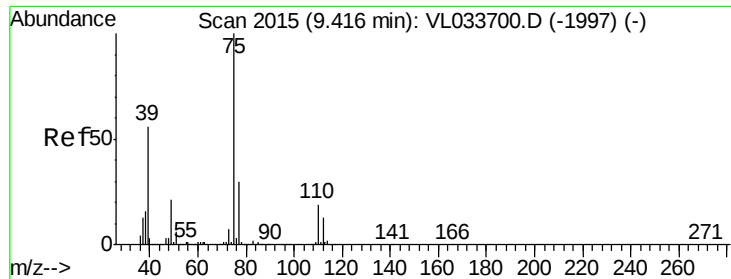
Tot Ion: 69 Resp: 878006
Ion Ratio Lower Upper
69 100
41 142.4 116.3 174.5
100 30.6 25.3 37.9



#44
2,2,4-Trimethylpentane
Concen: 8.891 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

Tgt Ion: 57 Resp: 3592726
Ion Ratio Lower Upper
57 100
41 31.9 25.4 38.0
56 30.9 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 10.874 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

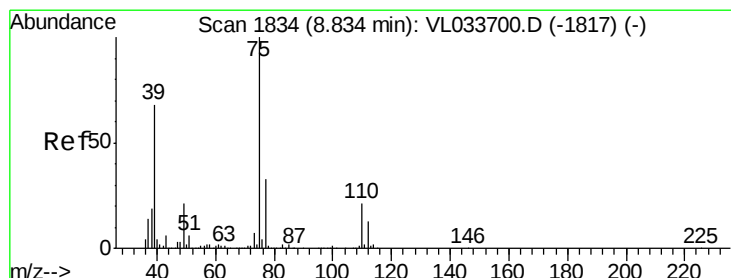
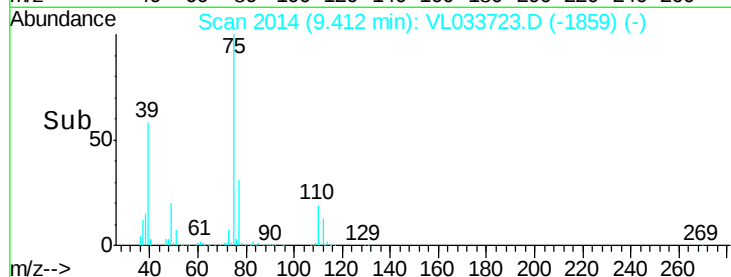
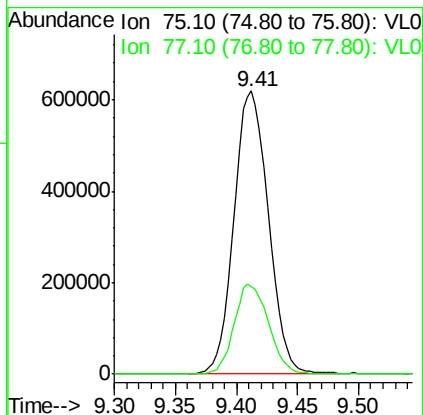
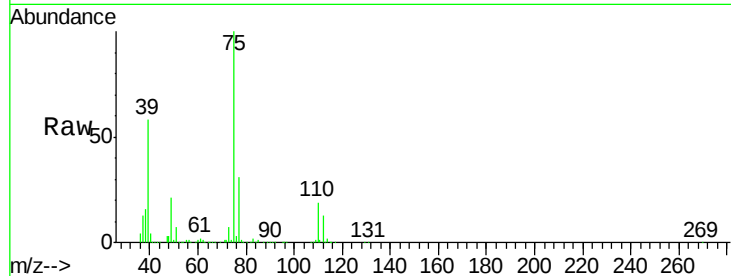
VL0520ABS01

Tot Ion: 75 Resp: 1213031

Ion Ratio Lower Upper

75 100

77 31.0 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 10.331 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

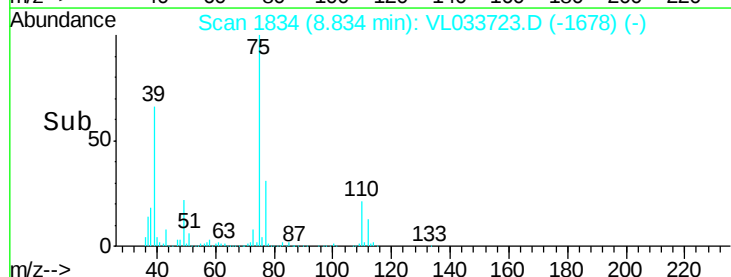
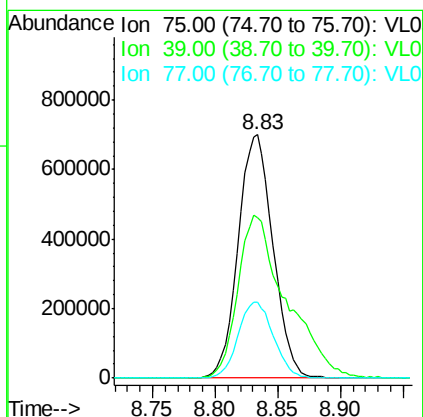
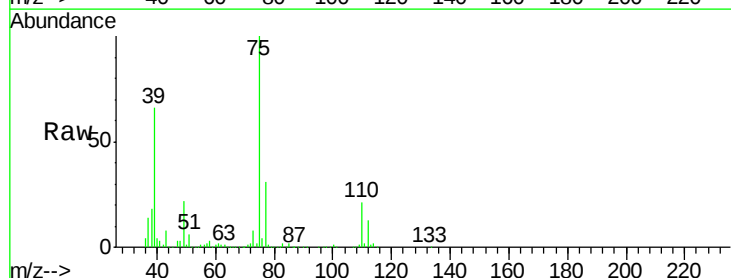
Tgt Ion: 75 Resp: 1349456

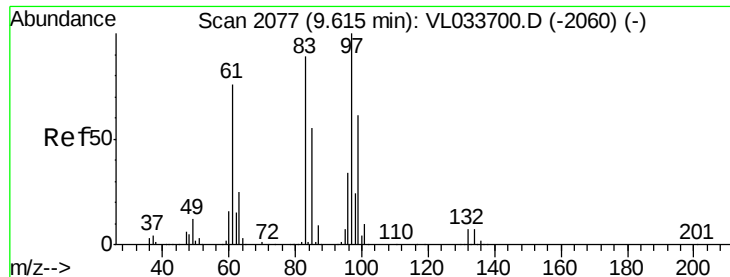
Ion Ratio Lower Upper

75 100

39 65.9 54.4 81.6

77 31.0 26.6 39.8





#47

1,1,2-Trichloroethane

Concen: 8.929 ppbv

RT: 9.61 min Scan# 2076

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

Tot Ion: 97 Resp: 904175

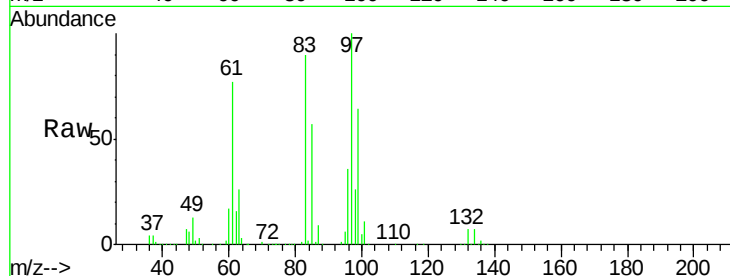
Ion Ratio Lower Upper

97 100

83 90.4 70.8 106.2

85 57.2 43.7 65.5

99 64.0 48.7 73.1

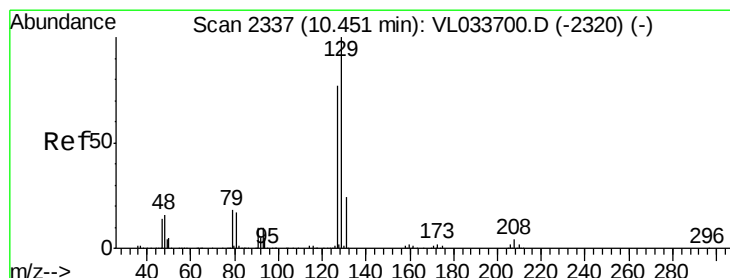
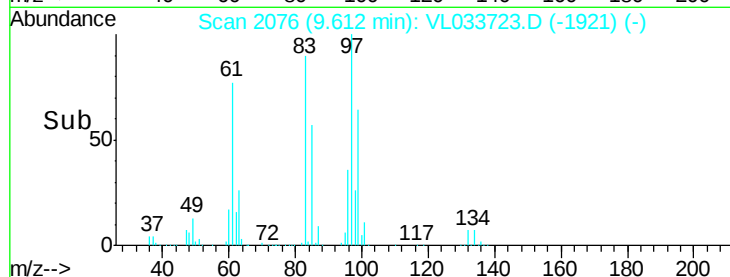
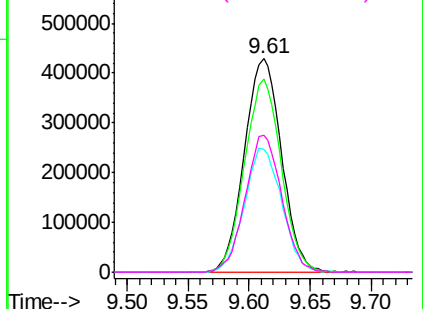


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.455 ppbv

RT: 10.45 min Scan# 2336

Delta R.T. -0.00 min

Lab File: VL033723.D

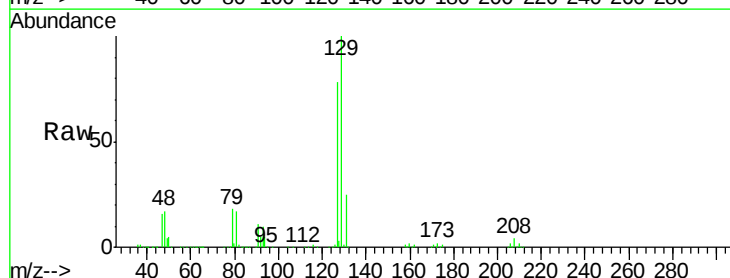
Acq: 20 May 2019 13:33

Tgt Ion:129 Resp: 1658994

Ion Ratio Lower Upper

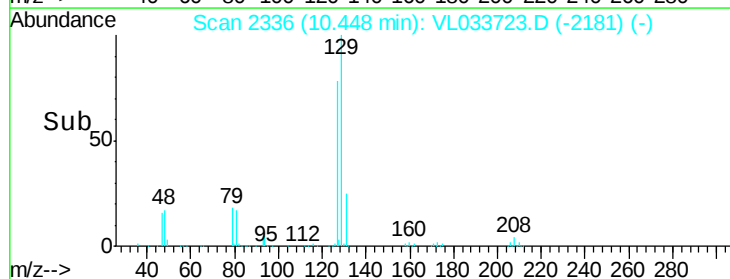
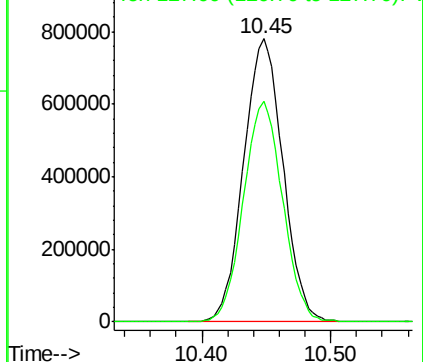
129 100

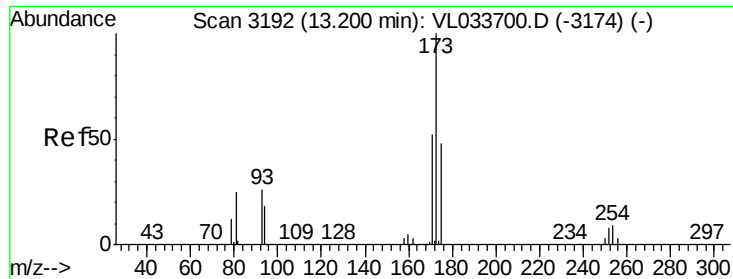
127 77.9 38.6 116.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.014 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

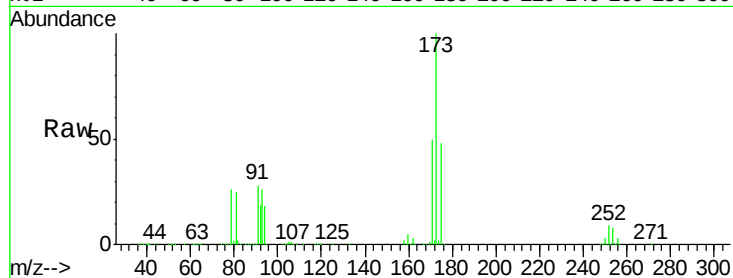
Tot Ion:173 Resp: 1478490

Ion Ratio Lower Upper

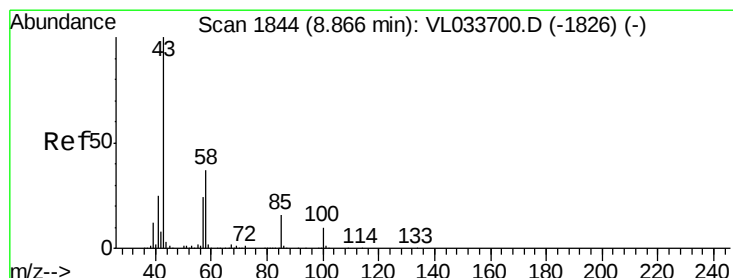
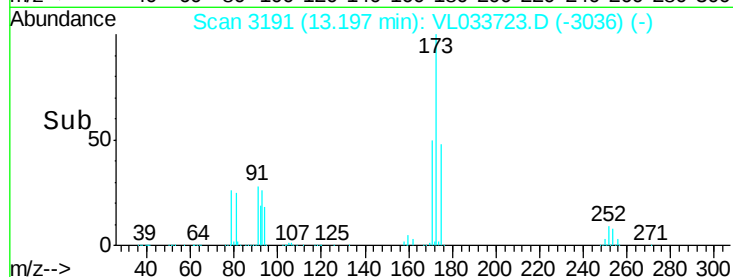
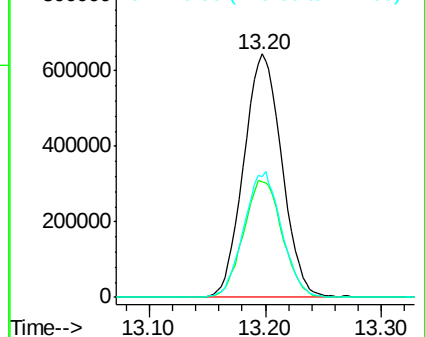
173 100

175 48.7 38.6 58.0

171 51.0 41.5 62.3



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.328 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VL033723.D

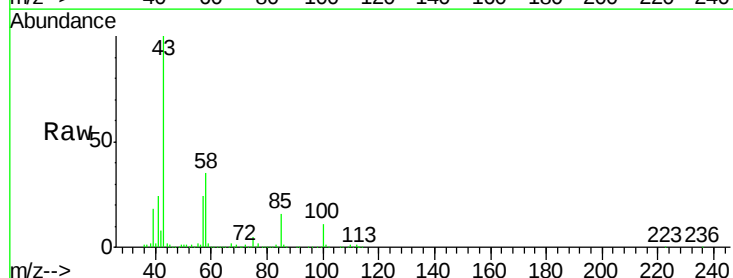
Acq: 20 May 2019 13:33

Tgt Ion: 43 Resp: 2337461

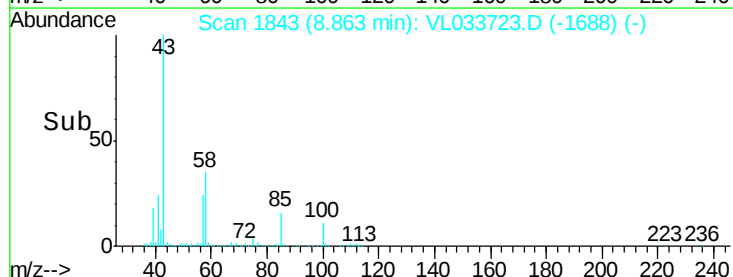
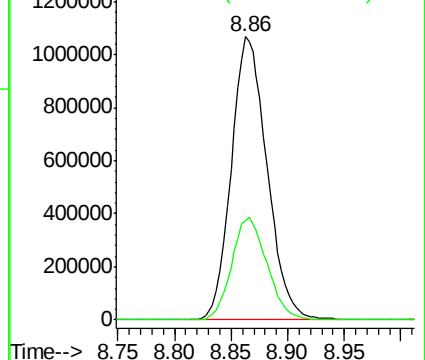
Ion Ratio Lower Upper

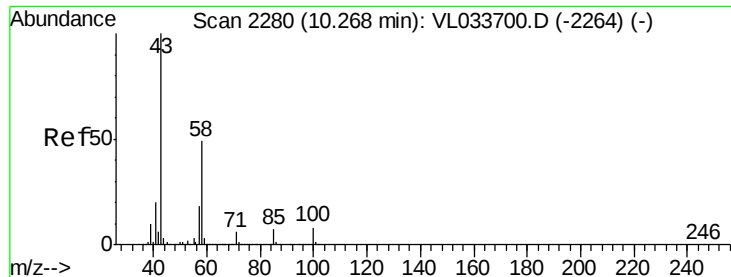
43 100

58 35.9 28.6 43.0



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

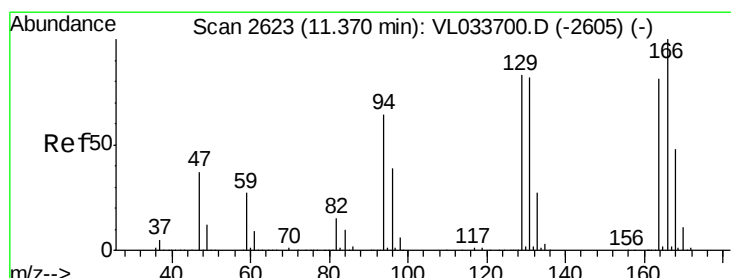
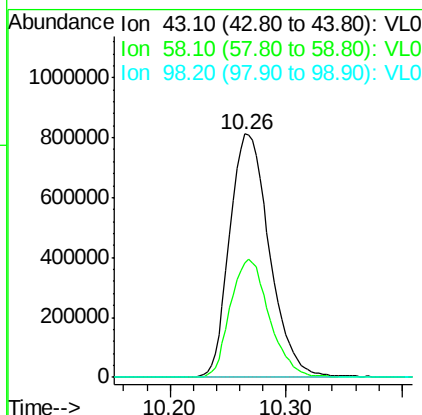
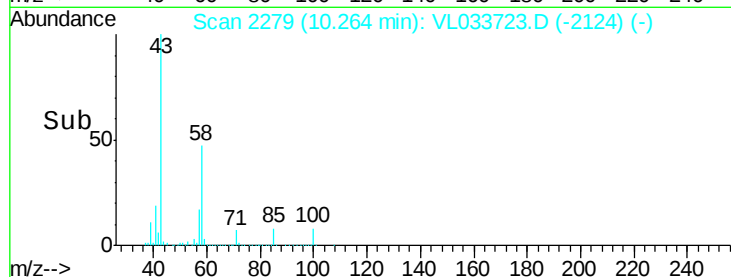
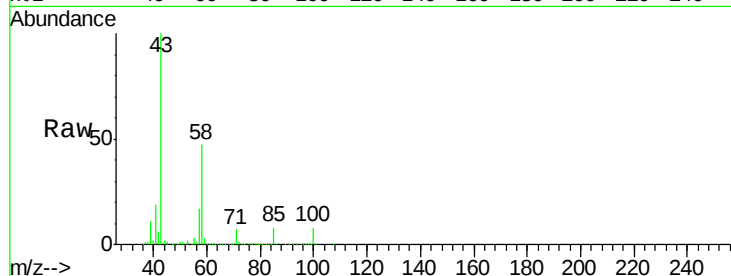




#51
 2-Hexanone
 Concen: 9.890 ppbv
 RT: 10.26 min Scan# 2279
 Delta R.T. -0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

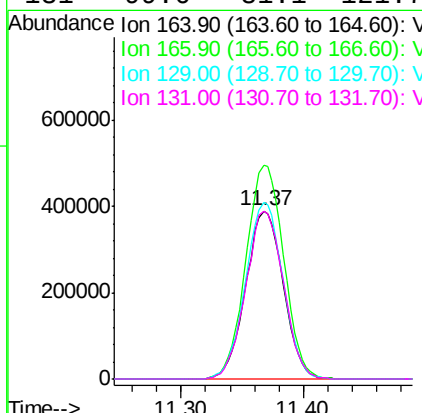
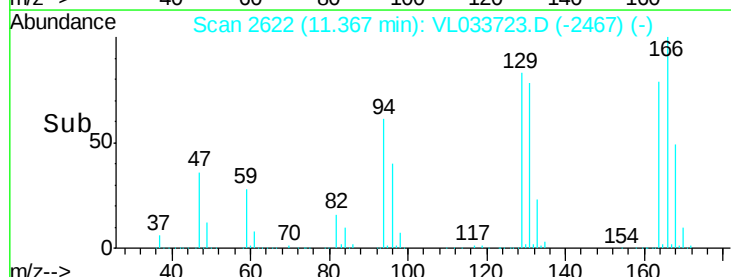
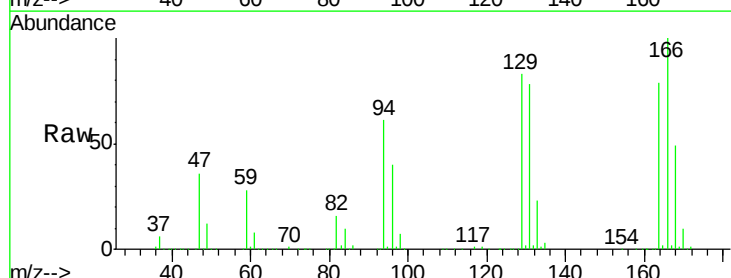
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0520ABS01

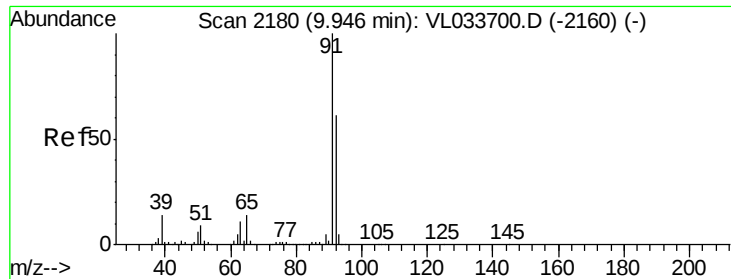
Tot Ion: 43 Resp: 1934323
 Ion Ratio Lower Upper
 43 100
 58 47.5 38.7 58.1
 98 0.4 0.2 0.4#



#52
 Tetrachloroethene
 Concen: 9.821 ppbv
 RT: 11.37 min Scan# 2622
 Delta R.T. -0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

Tgt Ion: 164 Resp: 825393
 Ion Ratio Lower Upper
 164 100
 166 126.9 98.9 148.3
 129 105.2 81.8 122.6
 131 99.6 81.1 121.7





#53

Toluene

Concen: 9.857 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

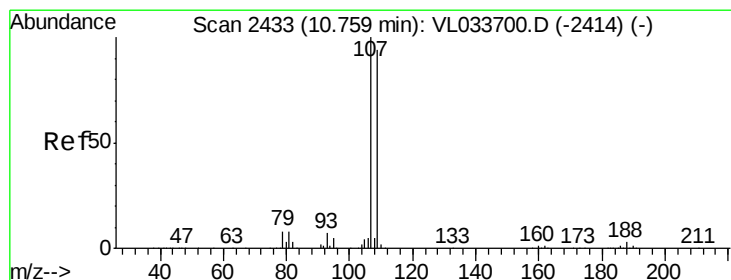
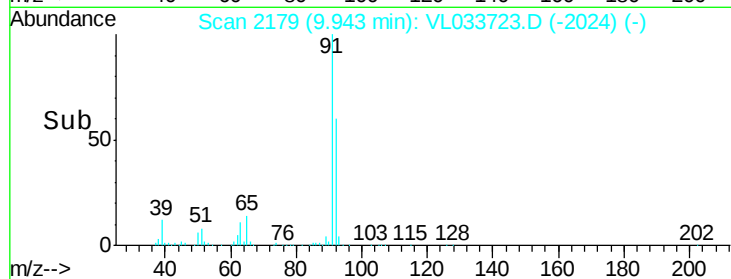
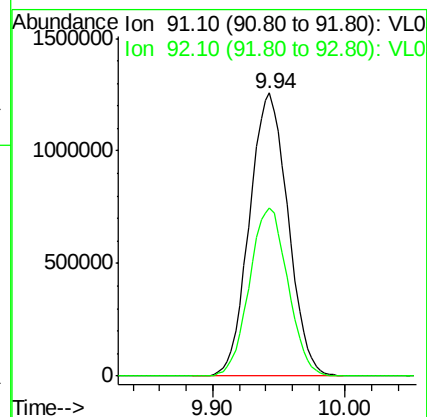
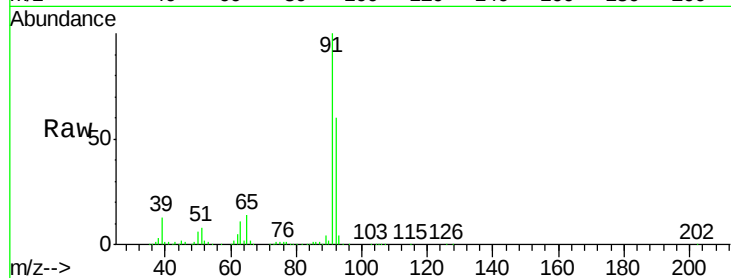
VL0520ABS01

Tot Ion: 91 Resp: 2542010

Ion Ratio Lower Upper

91 100

92 59.3 47.6 71.4



#54

1,2-Dibromoethane

Concen: 9.357 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033723.D

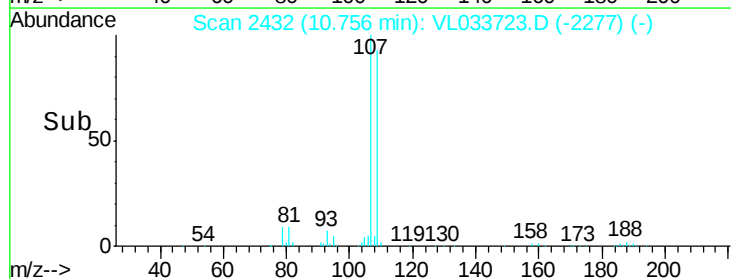
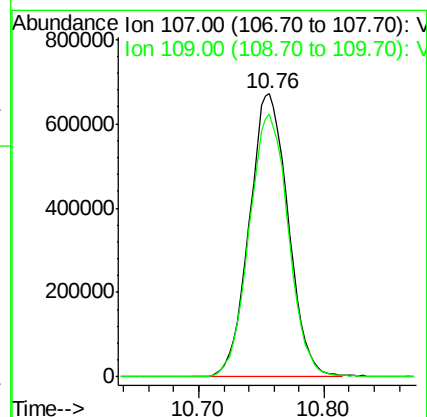
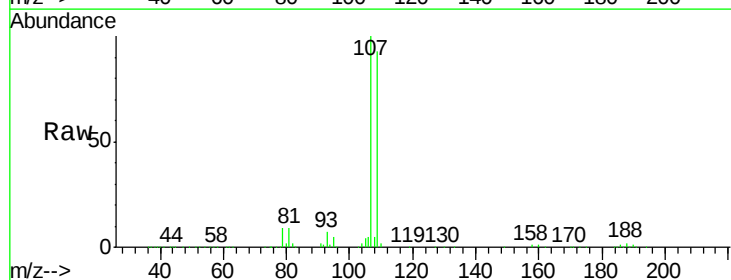
Acq: 20 May 2019 13:33

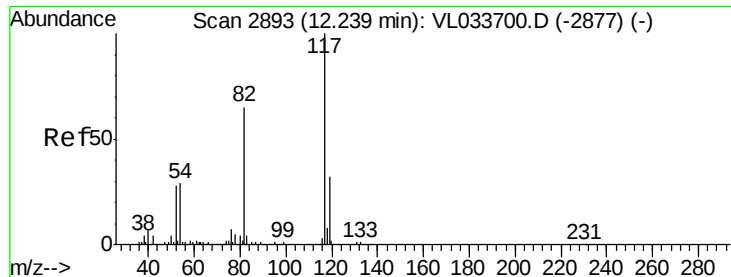
Tgt Ion:107 Resp: 1446070

Ion Ratio Lower Upper

107 100

109 92.9 75.2 112.8

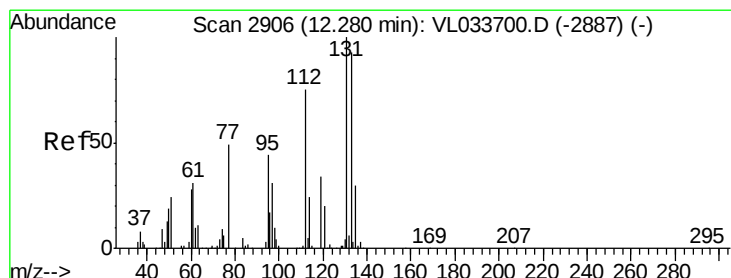
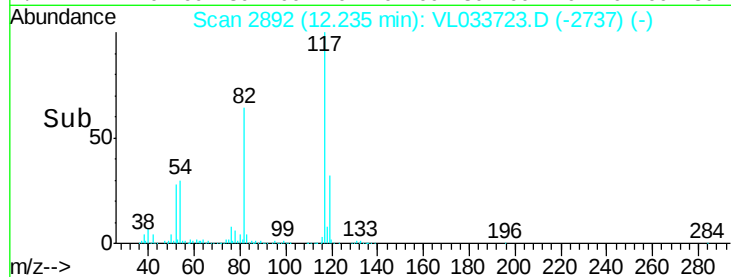
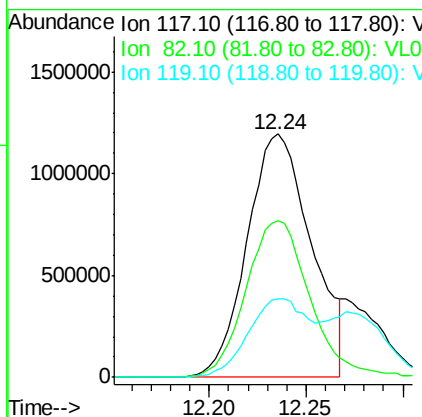
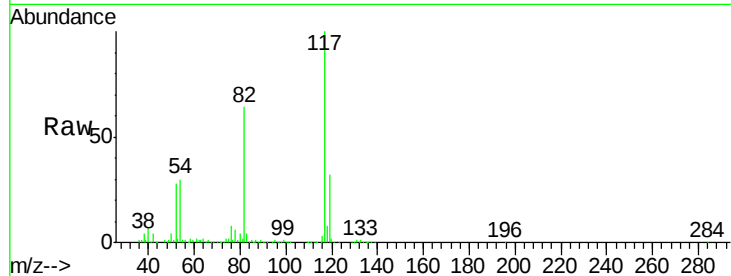




#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

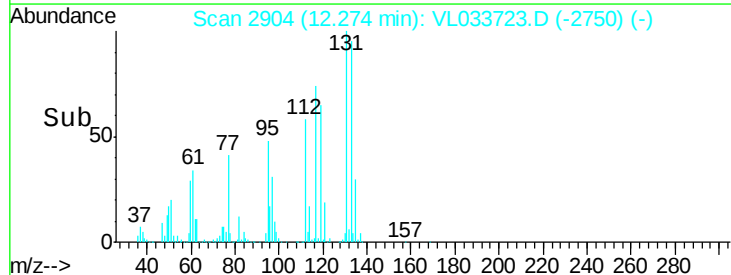
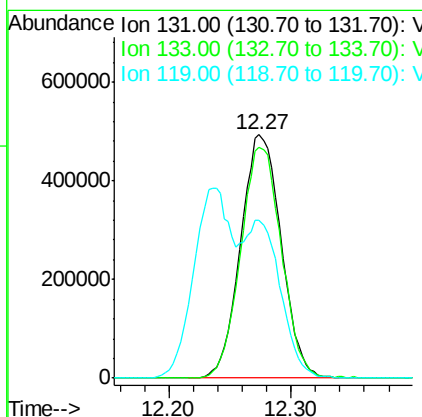
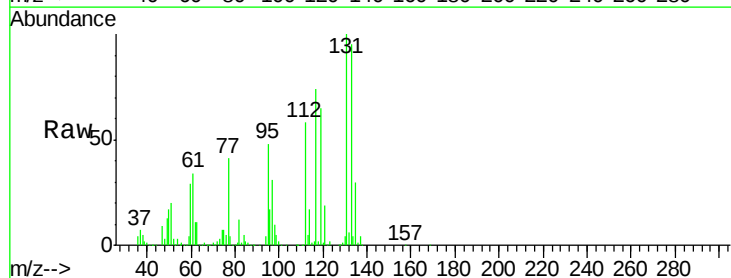
Instrument :
MSVOA_L
ClientSampleId :
VL0520ABS01

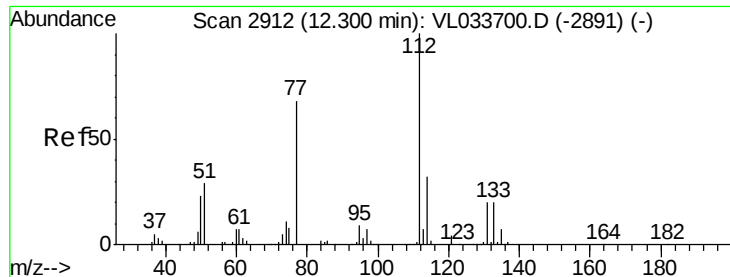
Tot Ion:117 Resp: 2766029
Ion Ratio Lower Upper
117 100
82 64.3 49.4 74.0
119 29.9 24.9 37.3



#56
1,1,1,2-Tetrachloroethane
Concen: 8.853 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033723.D
Acq: 20 May 2019 13:33

Tgt Ion:131 Resp: 1133082
Ion Ratio Lower Upper
131 100
133 95.8 76.6 114.8
119 135.1 49.0 73.4#





#57

Chlorobenzene

Concen: 8.662 ppbv

RT: 12.30 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

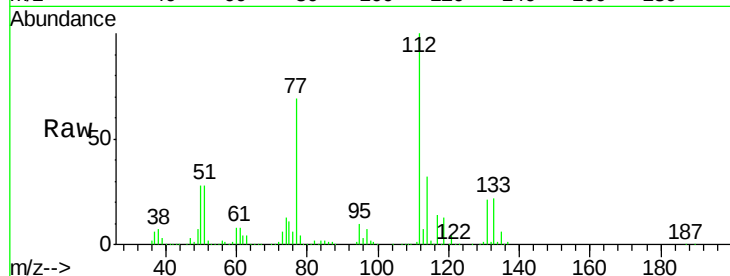
Tot Ion:112 Resp: 1972256

Ion Ratio Lower Upper

112 100

77 68.9 55.4 83.0

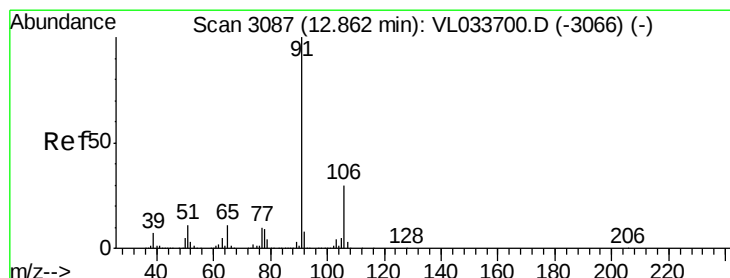
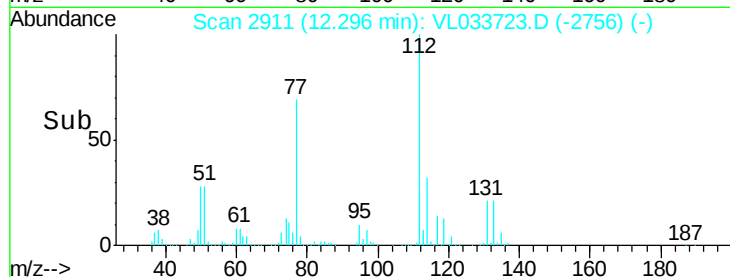
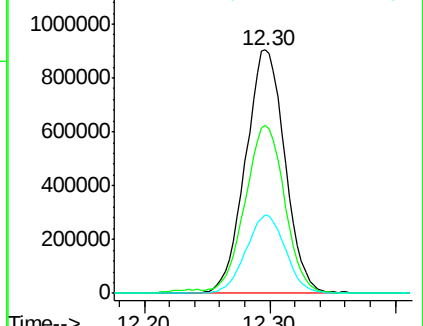
114 32.4 29.3 35.8



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: 9.498 ppbv

RT: 12.86 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VL033723.D

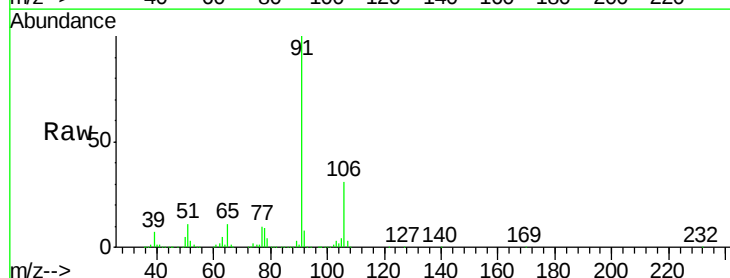
Acq: 20 May 2019 13:33

Tgt Ion: 91 Resp: 3478916

Ion Ratio Lower Upper

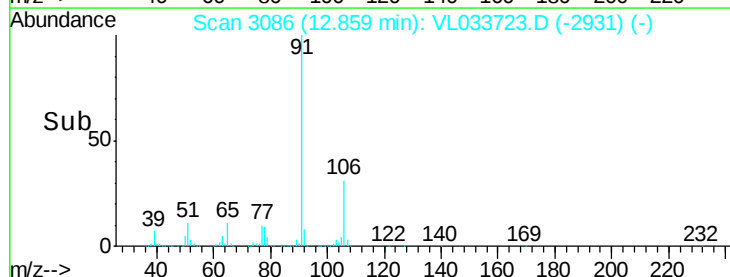
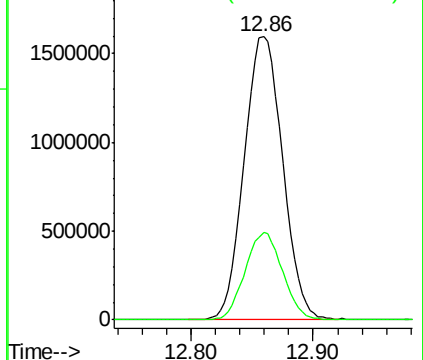
91 100

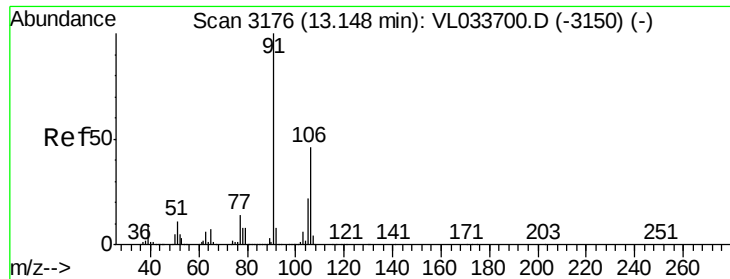
106 30.7 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 18.079 ppbv m

RT: 13.15 min Scan# 3175

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

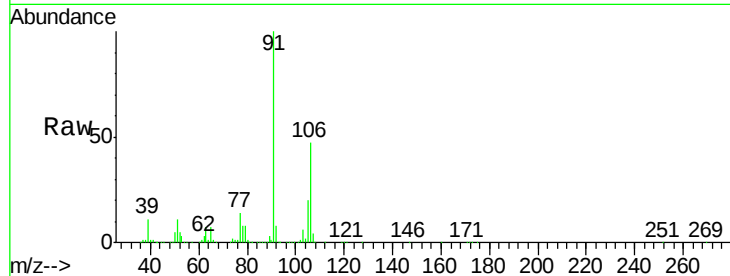
VL0520ABS01

Tot Ion: 91 Resp: 578887

Ion Ratio Lower Upper

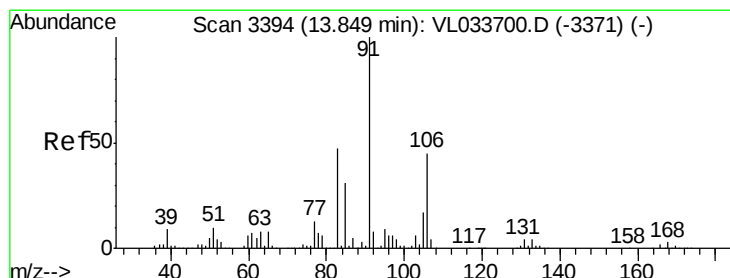
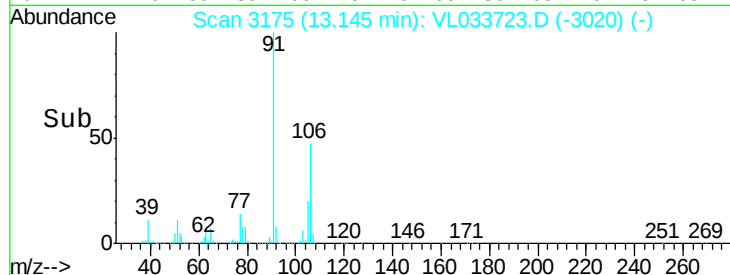
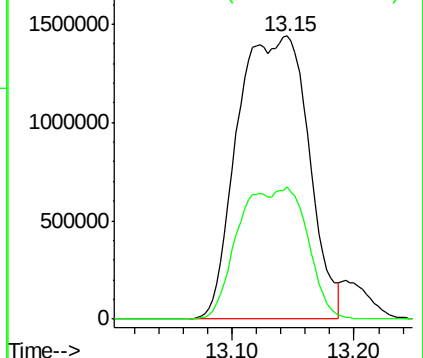
91 100

106 45.2 35.8 53.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.043 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL033723.D

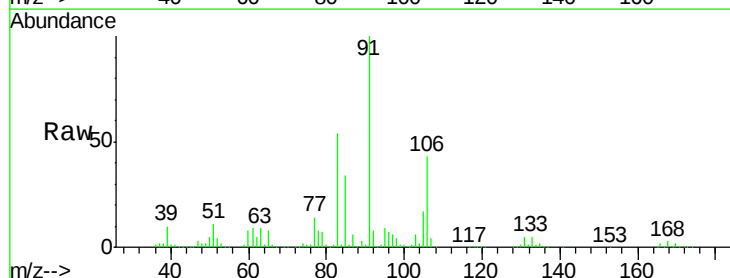
Acq: 20 May 2019 13:33

Tgt Ion: 91 Resp: 2918815

Ion Ratio Lower Upper

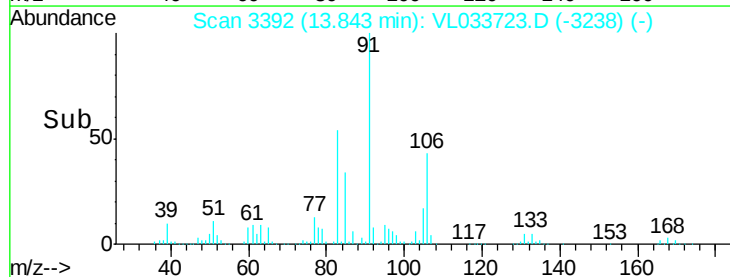
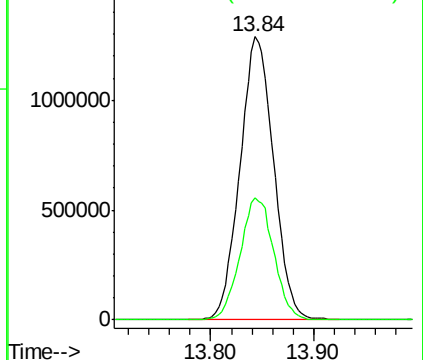
91 100

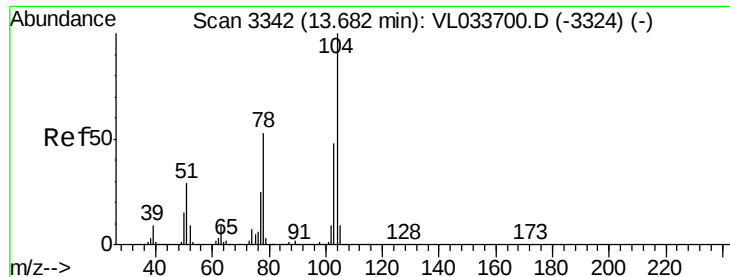
106 43.4 21.6 64.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 10.052 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

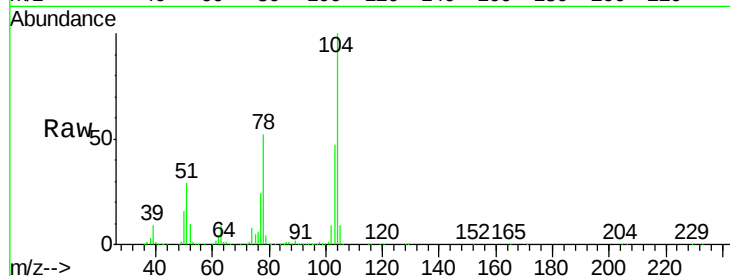
Tot Ion:104 Resp: 2184454

Ion Ratio Lower Upper

104 100

78 53.4 42.6 64.0

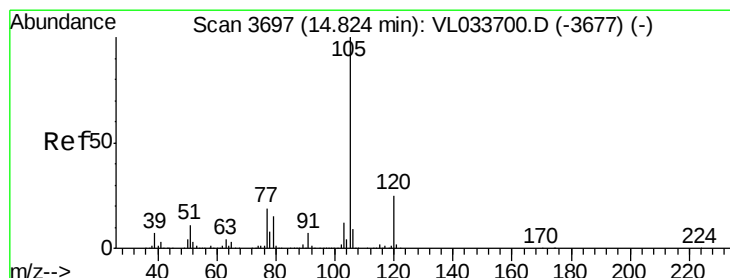
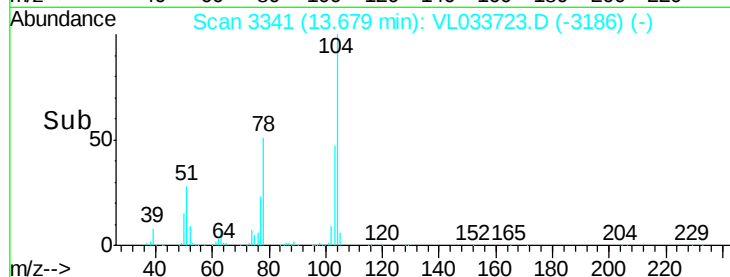
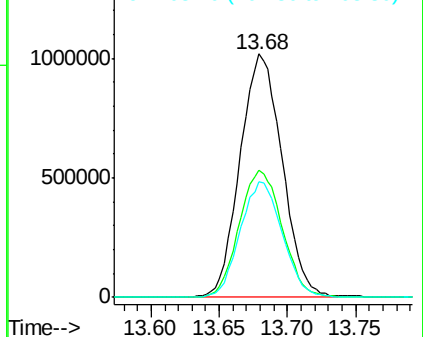
103 47.7 37.8 56.6



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: 9.107 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033723.D

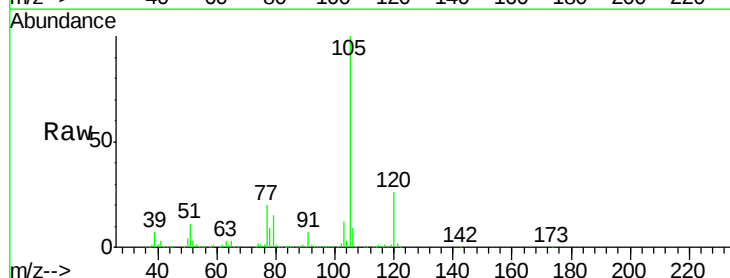
Acq: 20 May 2019 13:33

Tgt Ion:105 Resp: 3958789

Ion Ratio Lower Upper

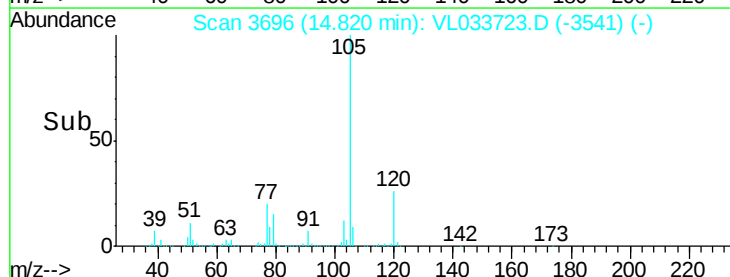
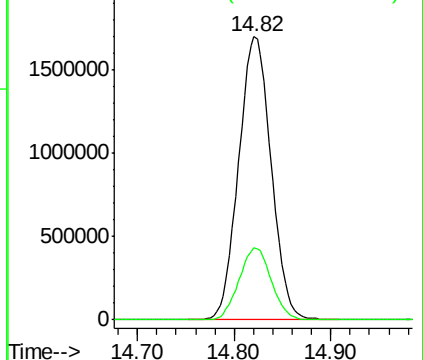
105 100

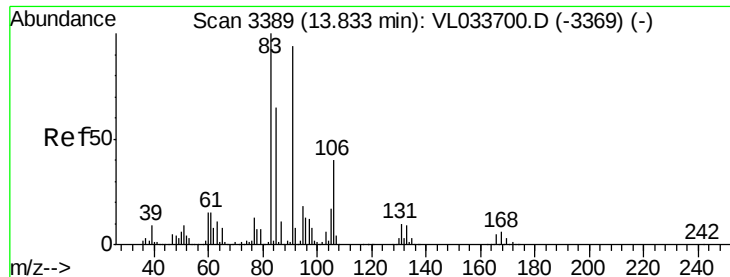
120 25.3 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

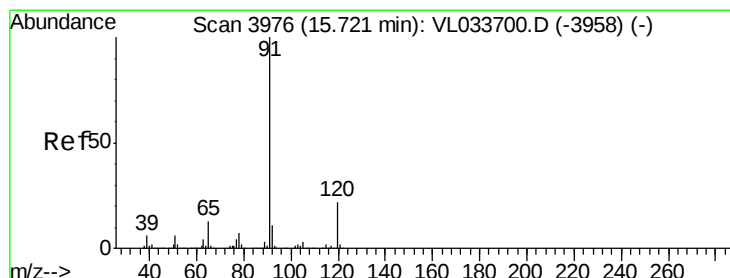
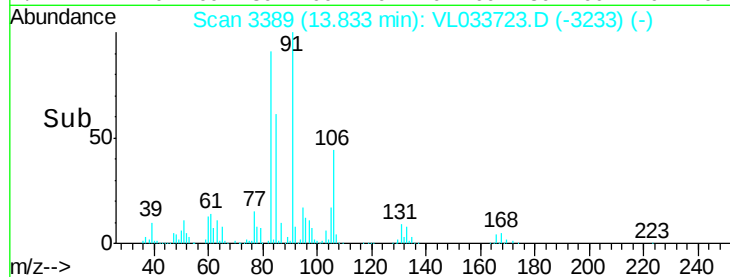
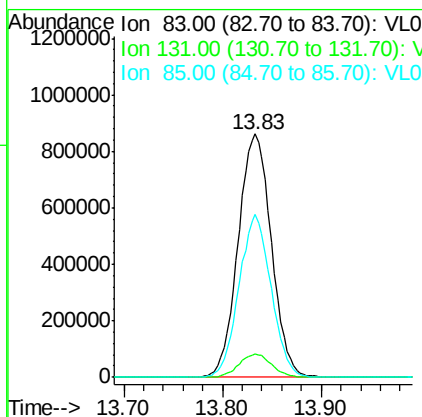
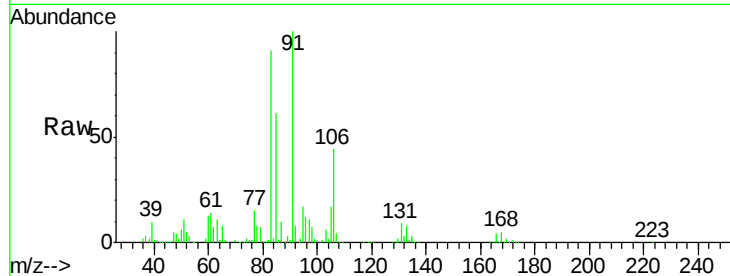




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.557 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

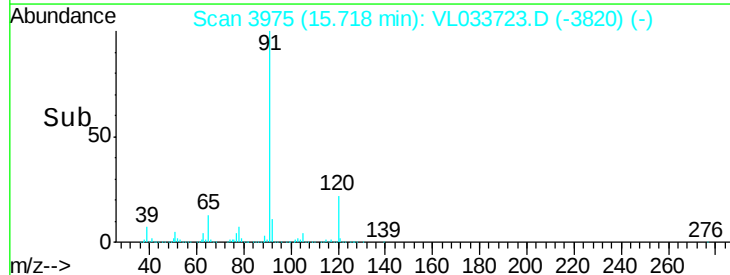
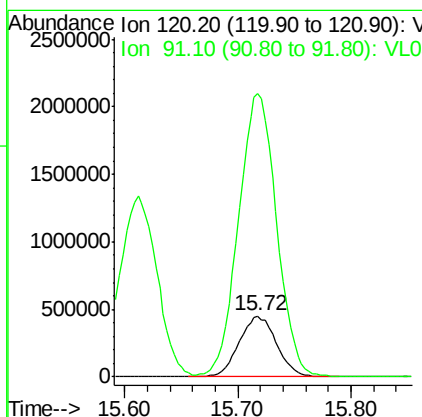
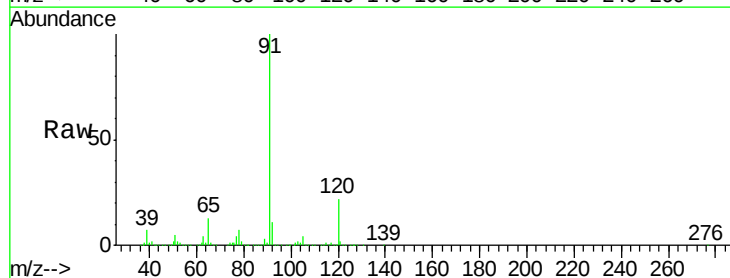
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0520ABS01

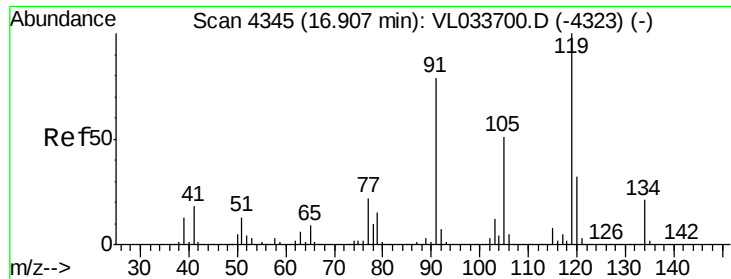
Tot Ion: 83 Resp: 2008503
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.8 14.3
 85 64.9 32.3 96.9



#64
 n-propylbenzene
 Concen: 9.240 ppbv
 RT: 15.72 min Scan# 3975
 Delta R.T. -0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

Tgt Ion: 120 Resp: 1038910
 Ion Ratio Lower Upper
 120 100
 91 473.8 379.1 568.7





#65

tert-Butylbenzene

Concen: 9.190 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

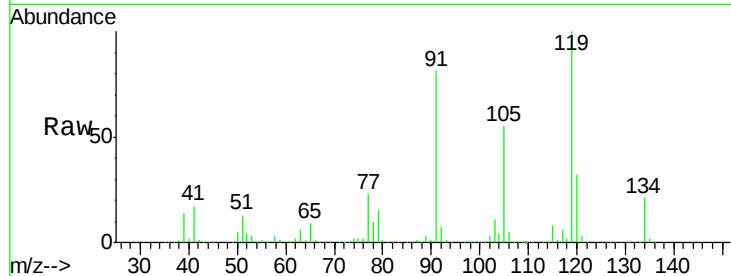
Tot Ion:119 Resp: 3647263

Ion Ratio Lower Upper

119 100

91 82.3 65.3 97.9

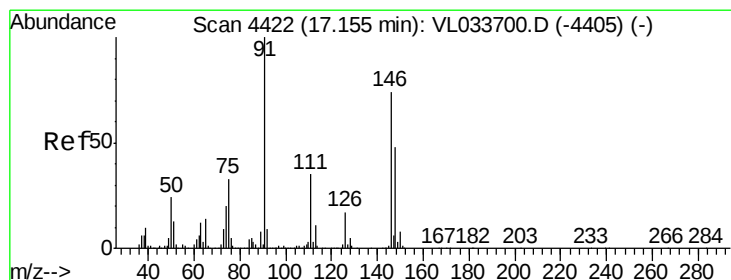
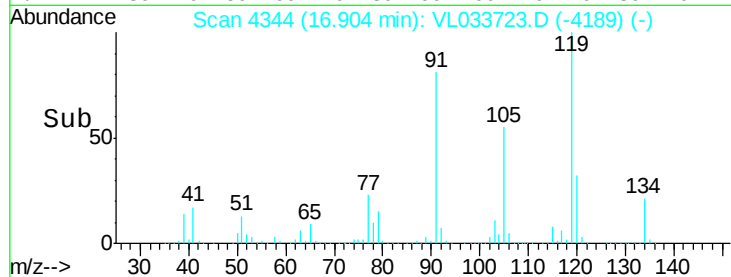
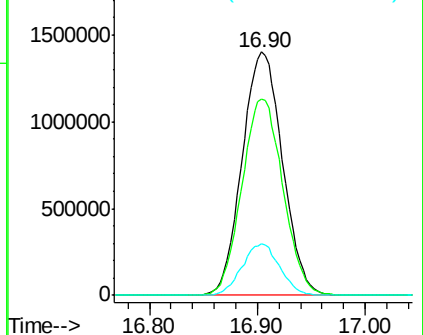
134 19.7 15.7 23.5



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.355 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

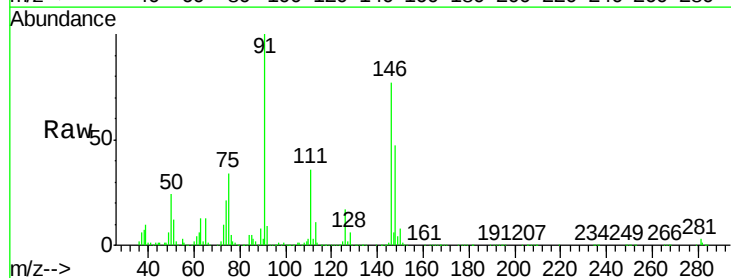
Tgt Ion: 91 Resp: 2146443

Ion Ratio Lower Upper

91 100

126 16.8 13.5 20.3

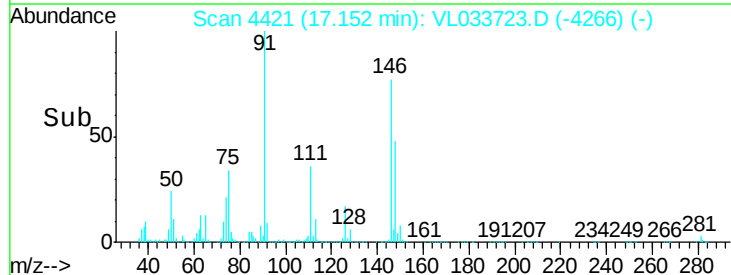
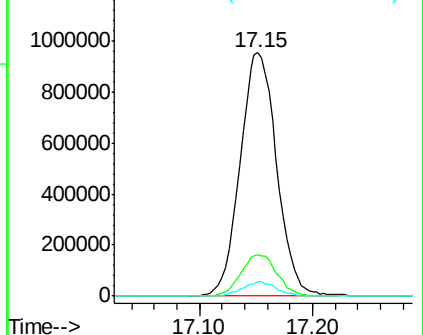
128 5.5 4.3 6.5

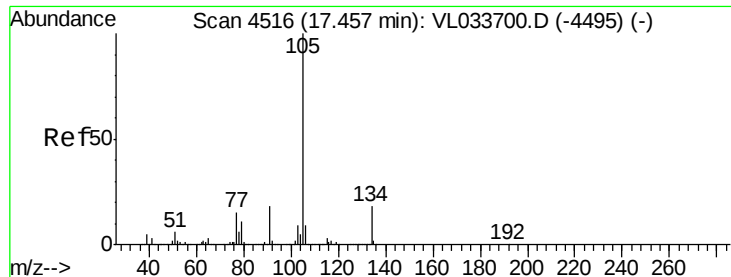


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.164 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

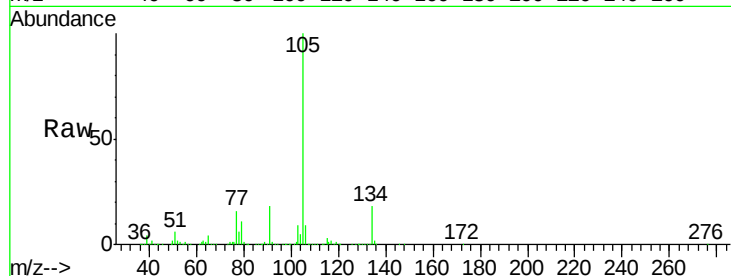
VL0520ABS01

Tot Ion:105 Resp: 5090737

Ion Ratio Lower Upper

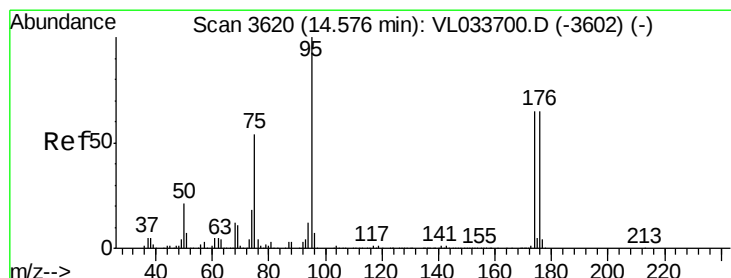
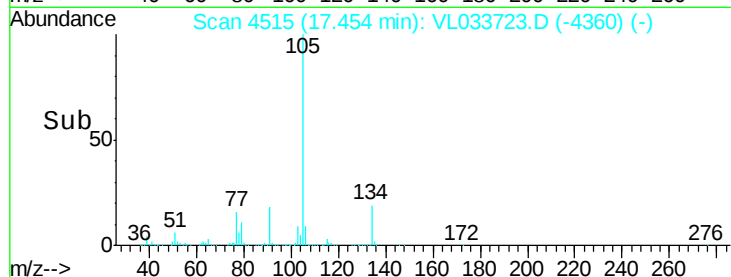
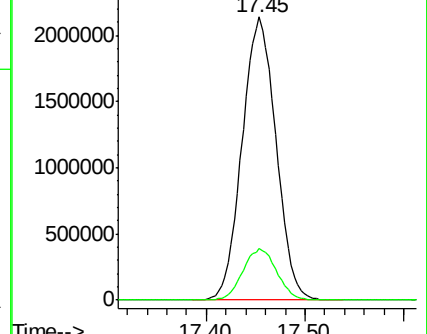
105 100

134 18.2 14.6 22.0



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: 9.701 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

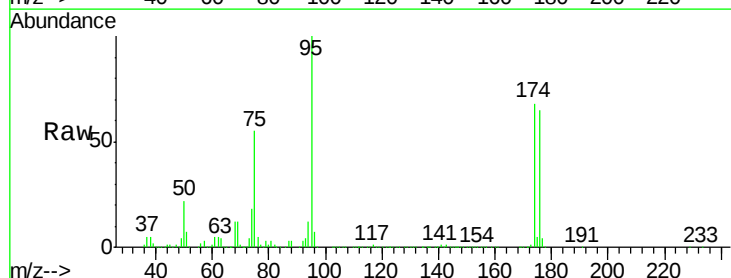
Tgt Ion: 95 Resp: 2175416

Ion Ratio Lower Upper

95 100

174 67.3 53.9 80.9

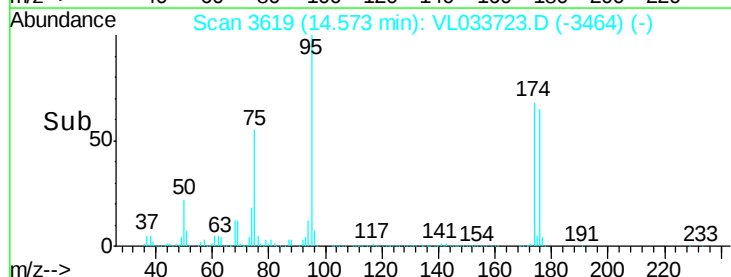
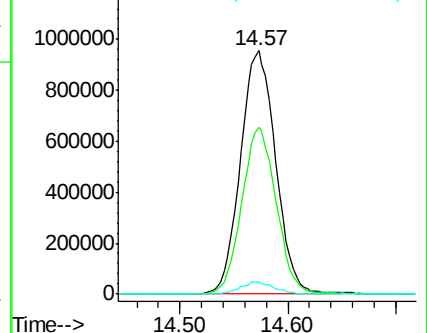
175 4.8 3.8 5.8

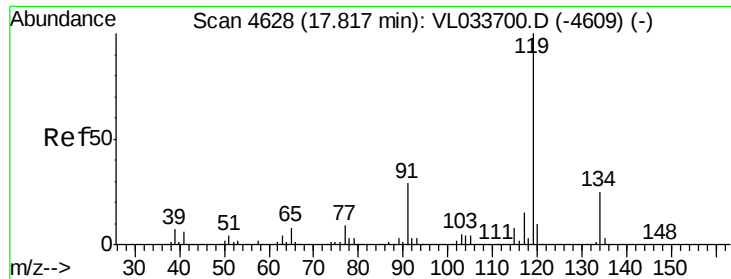


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 9.220 ppbv

RT: 17.81 min Scan# 4626

Delta R.T. -0.01 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

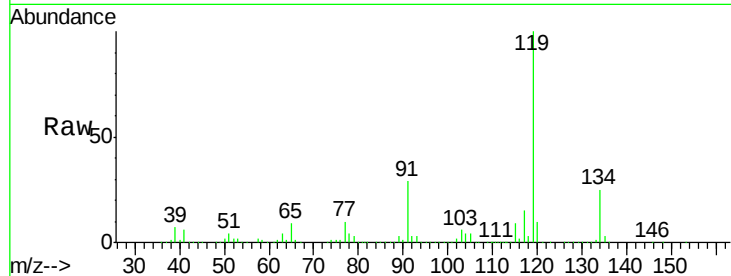
Tot Ion:119 Resp: 4233307

Ion Ratio Lower Upper

119 100

134 25.2 20.3 30.5

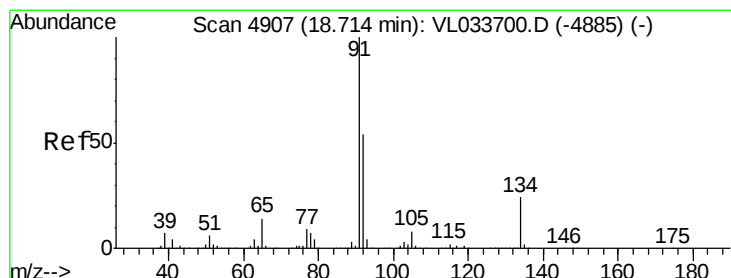
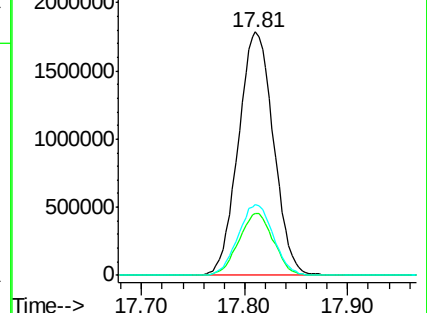
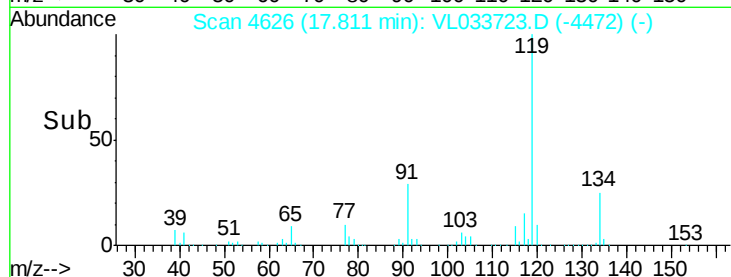
91 29.3 23.1 34.7



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: 9.018 ppbv

RT: 18.71 min Scan# 4906

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

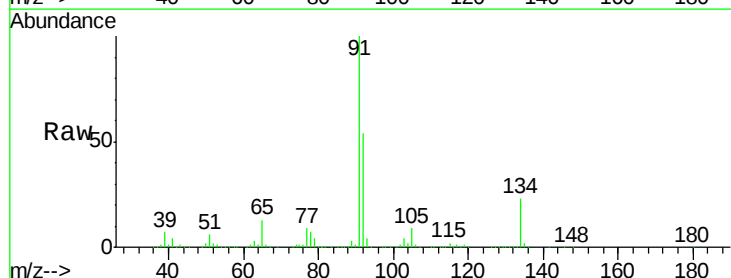
Tgt Ion: 91 Resp: 4440011

Ion Ratio Lower Upper

91 100

92 53.6 42.6 63.8

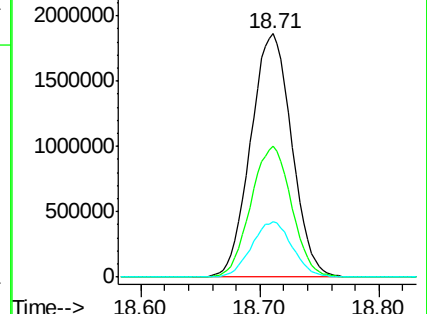
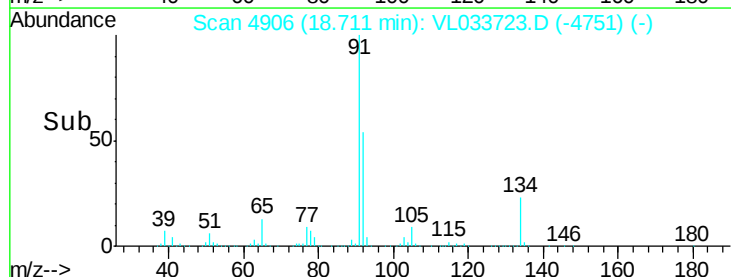
134 22.6 18.1 27.1

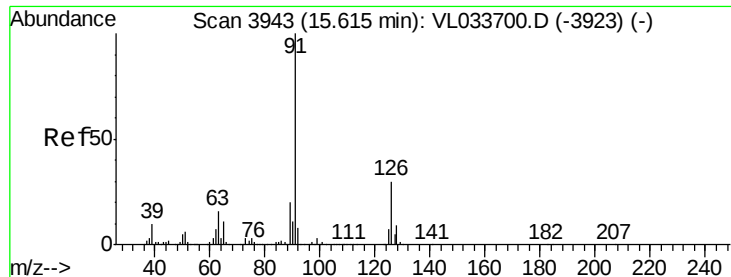


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.445 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

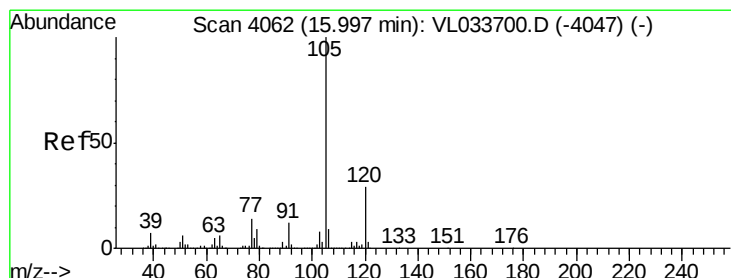
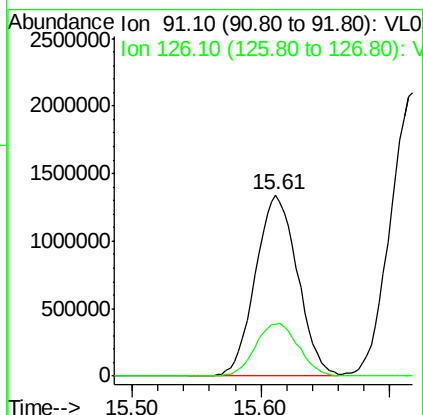
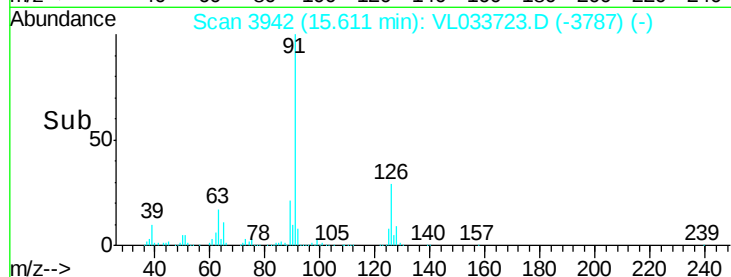
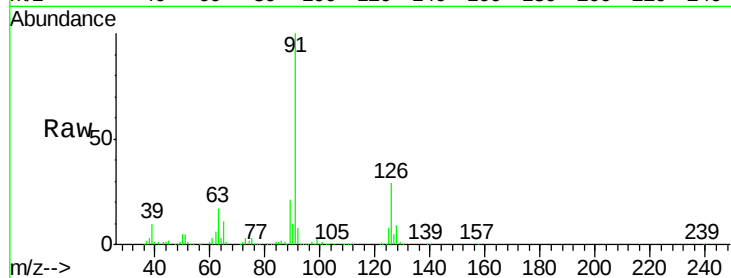
VL0520ABS01

Tot Ion: 91 Resp: 3046004

Ion Ratio Lower Upper

91 100

126 29.9 12.0 47.8



#72

4-Ethyltoluene

Concen: 9.451 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Tgt Ion:105 Resp: 3488025

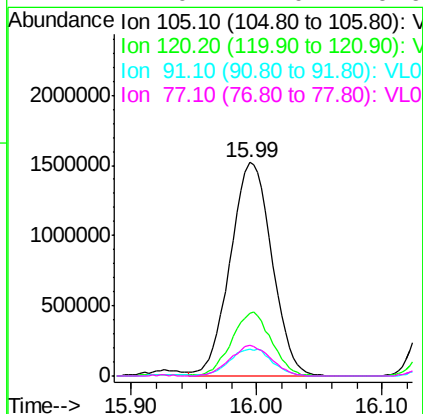
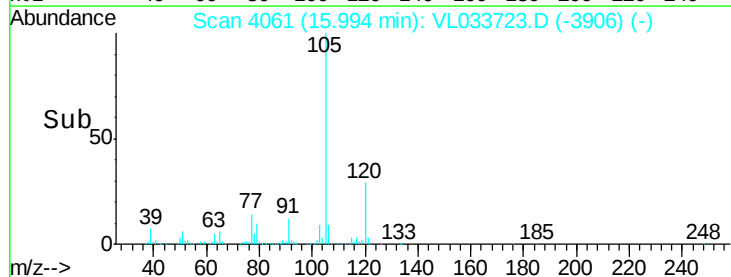
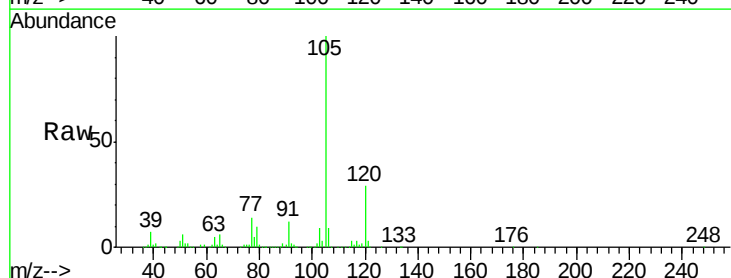
Ion Ratio Lower Upper

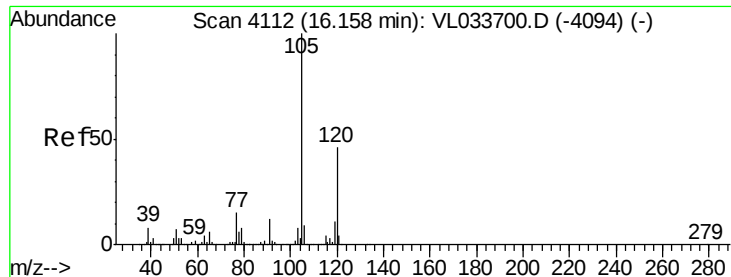
105 100

120 29.0 23.1 34.7

91 13.0 10.4 15.6

77 14.0 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 9.242 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

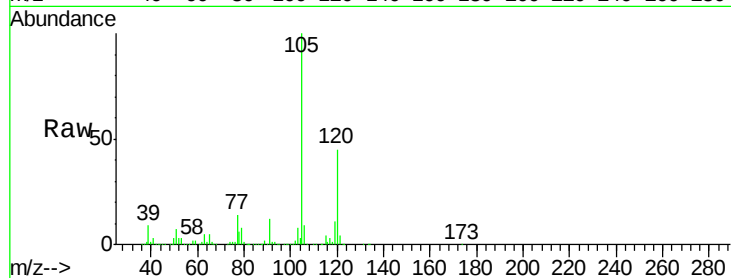
VL0520ABS01

Tot Ion:105 Resp: 3328049

Ion Ratio Lower Upper

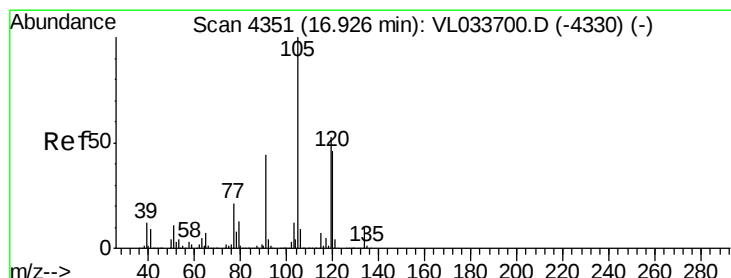
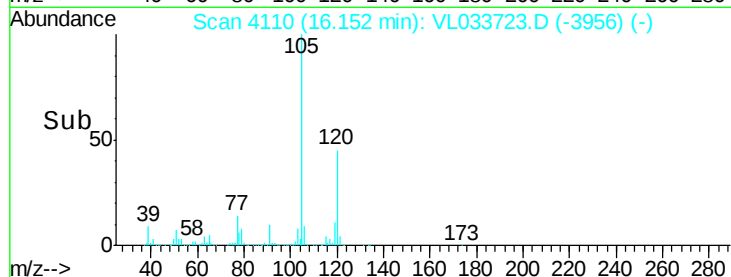
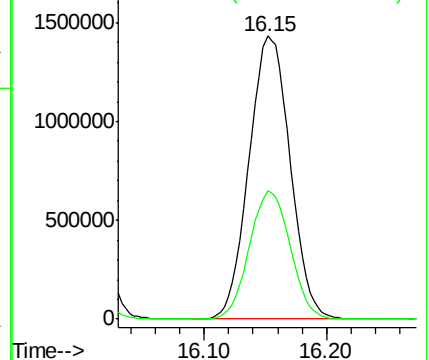
105 100

120 45.3 37.0 55.4



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: 8.872 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Tgt Ion:105 Resp: 3476780

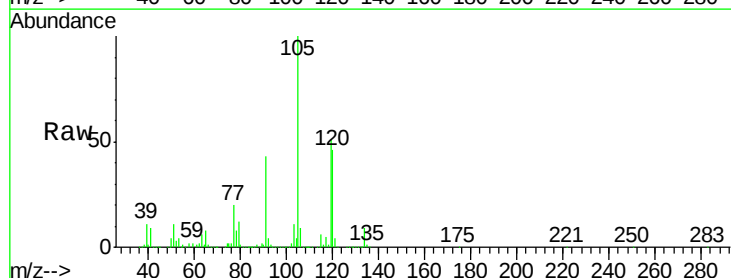
Ion Ratio Lower Upper

105 100

120 45.6 36.8 55.2

91 42.9 35.4 53.0

77 20.2 16.8 25.2

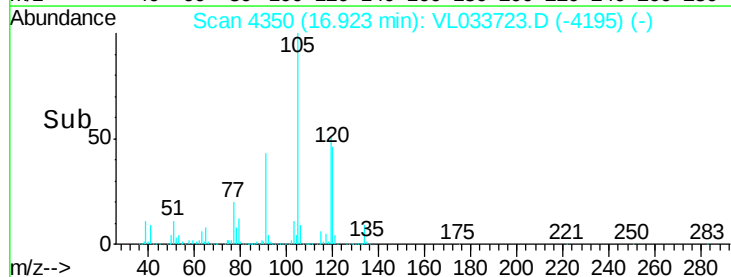
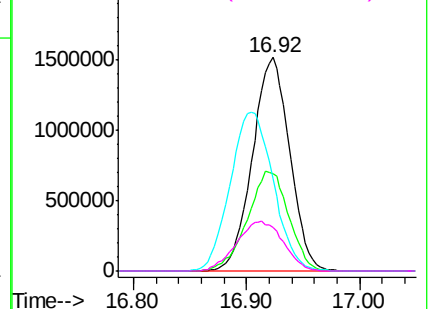


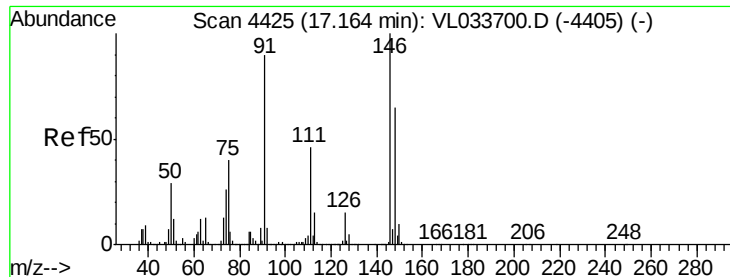
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 8.442 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

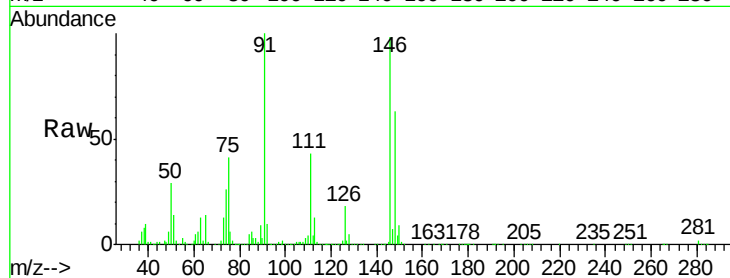
Tot Ion:146 Resp: 2027371

Ion Ratio Lower Upper

146 100

111 45.3 22.9 68.8

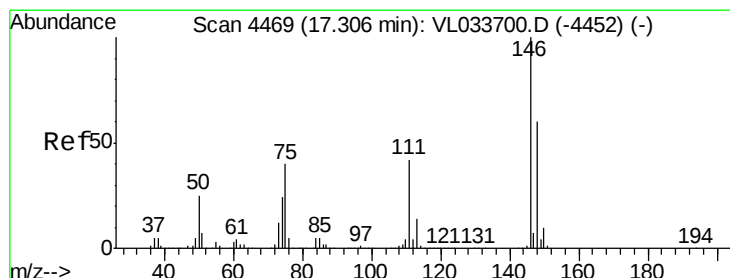
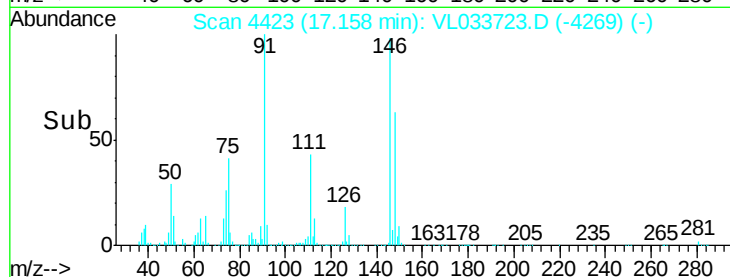
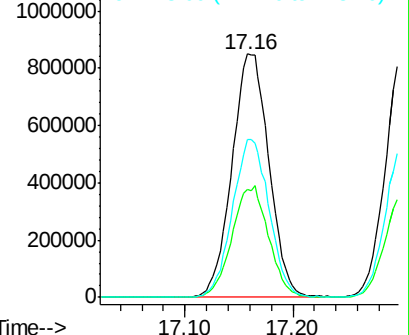
148 64.2 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.841 ppbv

RT: 17.30 min Scan# 4468

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

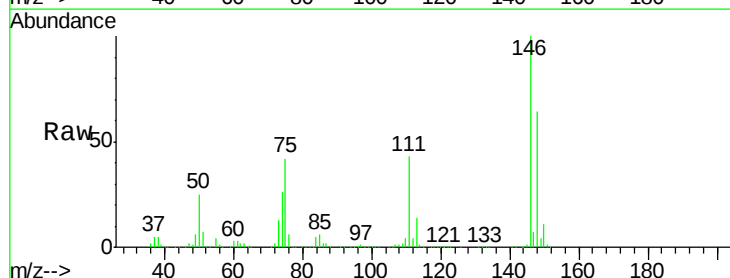
Tgt Ion:146 Resp: 2017815

Ion Ratio Lower Upper

146 100

111 43.9 21.9 65.8

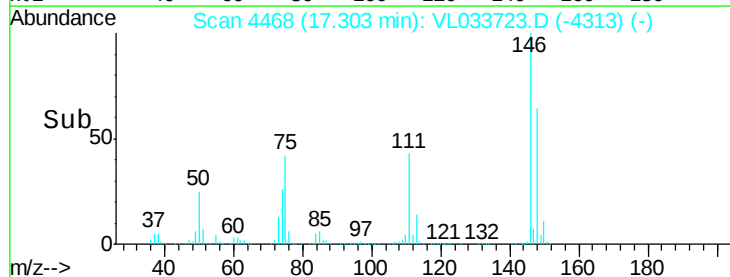
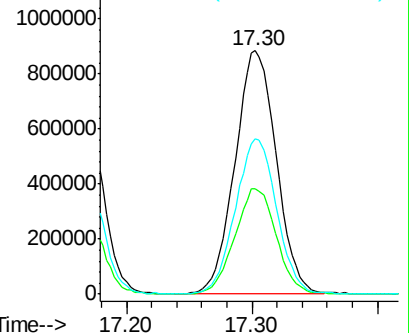
148 64.2 32.1 96.3

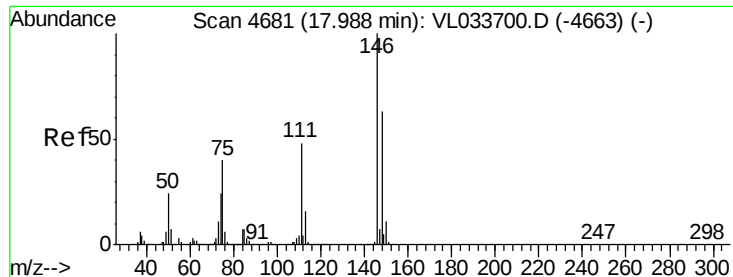


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

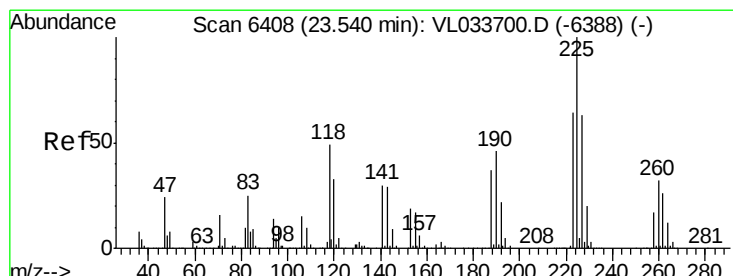
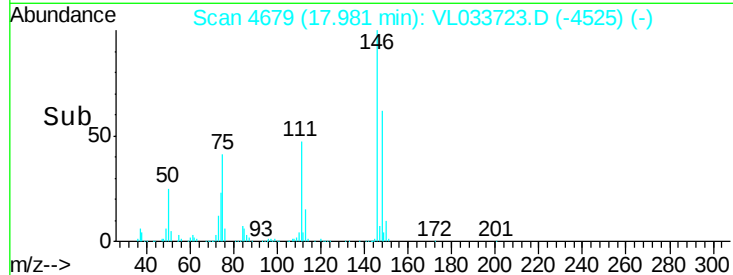
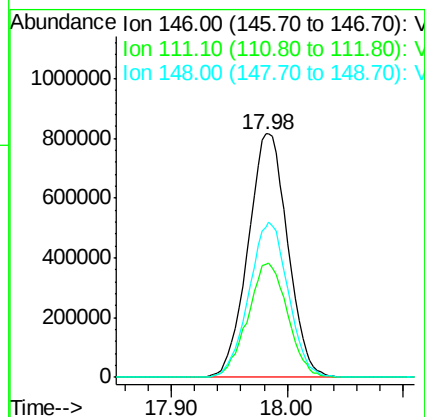
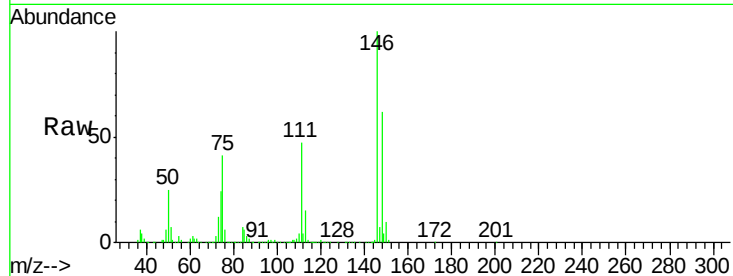




#77
 1,2-Dichlorobenzene
 Concen: 8.601 ppbv
 RT: 17.98 min Scan# 4679
 Delta R.T. -0.01 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

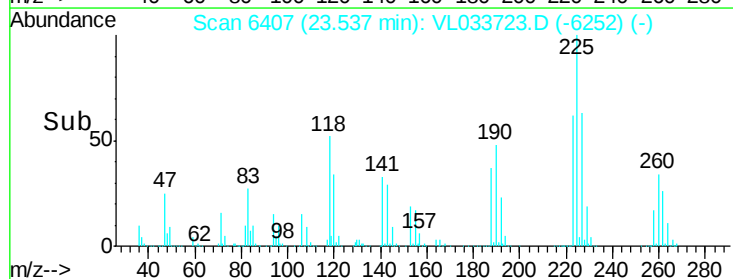
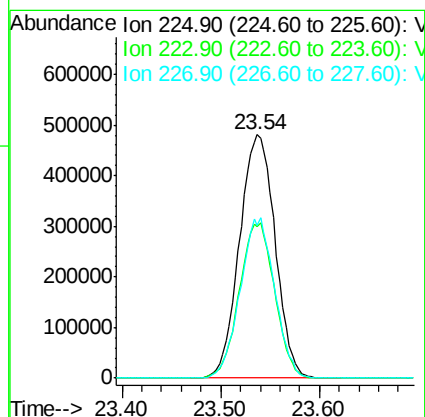
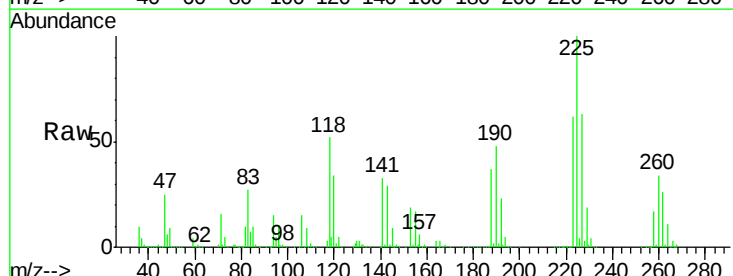
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0520ABS01

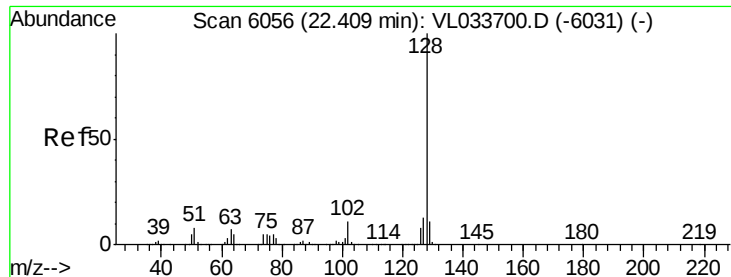
Tot Ion:146 Resp: 1940845
 Ion Ratio Lower Upper
 146 100
 111 46.9 23.5 70.5
 148 63.2 32.1 96.3



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.046 ppbv
 RT: 23.54 min Scan# 6407
 Delta R.T. -0.00 min
 Lab File: VL033723.D
 Acq: 20 May 2019 13:33

Tgt Ion:225 Resp: 1202097
 Ion Ratio Lower Upper
 225 100
 223 63.2 50.2 75.4
 227 63.8 50.7 76.1





#79

Naphthalene

Concen: 8.274 ppbv

RT: 22.41 min Scan# 6055

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

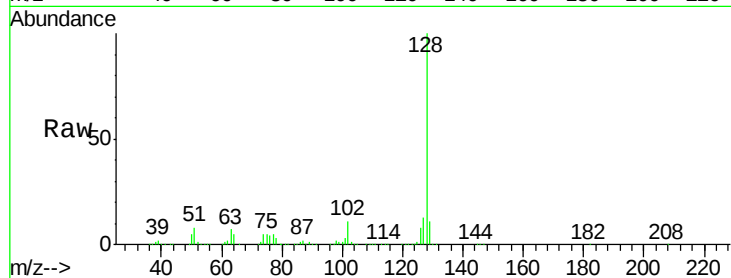
Tot Ion:128 Resp: 3011667

Ion Ratio Lower Upper

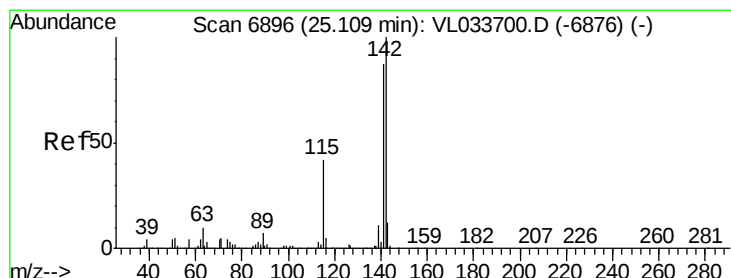
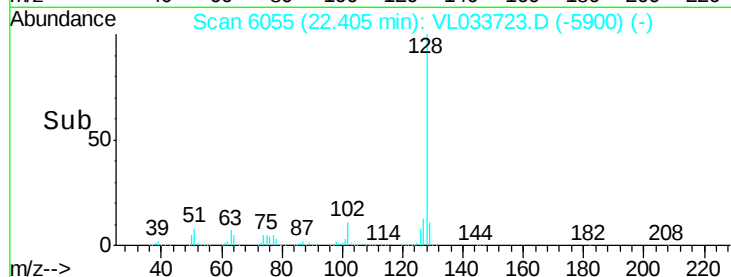
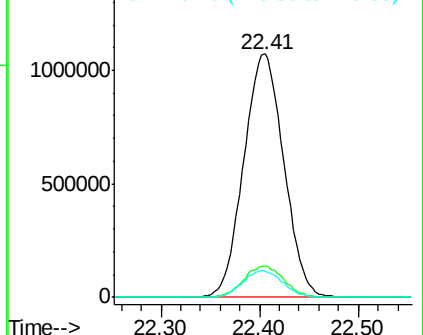
128 100

127 12.6 10.6 16.0

129 10.8 8.9 13.3



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: 6.982 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

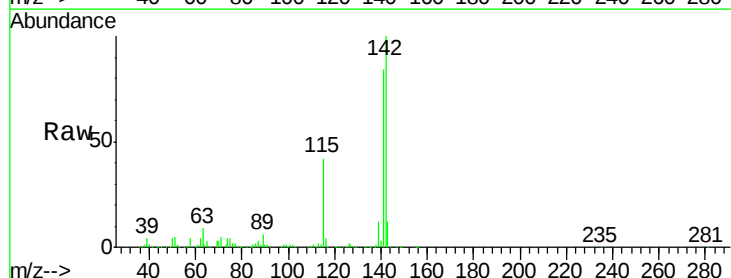
Tgt Ion:142 Resp: 965588

Ion Ratio Lower Upper

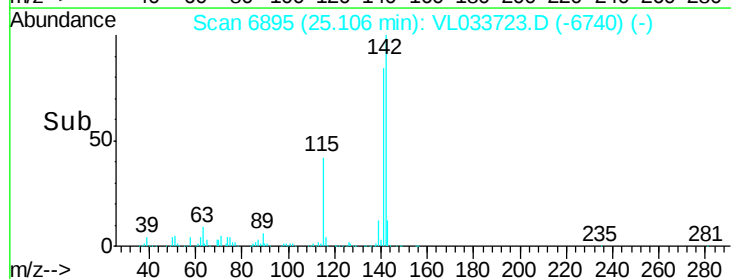
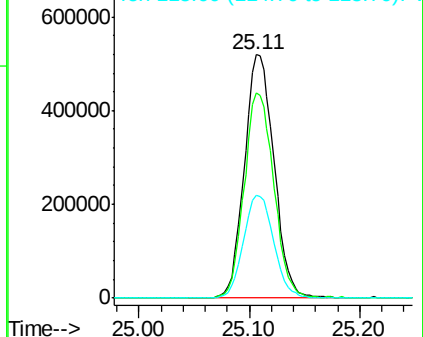
142 100

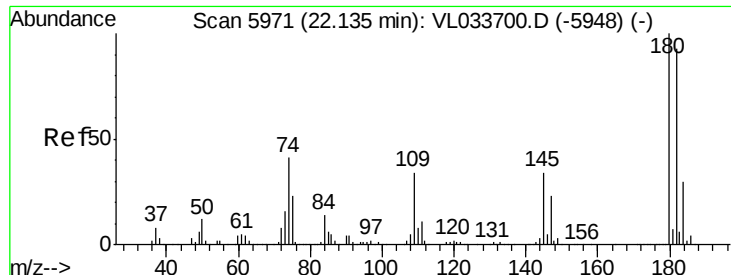
141 84.4 67.2 100.8

115 43.3 34.1 51.1



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 7.745 ppbv

RT: 22.13 min Scan# 5968

Delta R.T. -0.01 min

Lab File: VL033723.D

Acq: 20 May 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VL0520ABS01

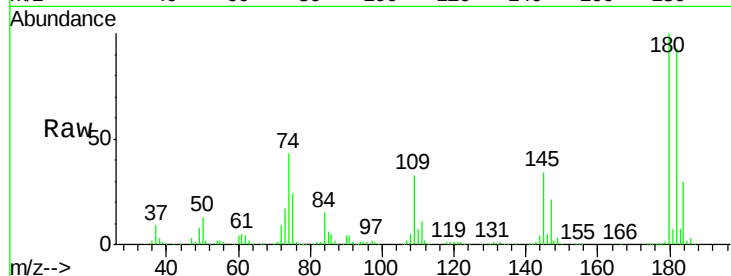
Tot Ion:180 Resp: 1650814

Ion Ratio Lower Upper

180 100

182 95.9 76.1 114.1

184 31.2 24.6 37.0



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

