

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050719\
 Data File : VL033683.D
 Acq On : 7 May 2019 15:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: May 08 03:41:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	954766	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2236675	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2443910	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1910169	9.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1608962	7.185	ppbv	99
3) Chlorodifluoromethane	3.01	51	1105580	8.018	ppbv	99
4) Chloromethane	3.17	50	604047	8.426	ppbv	100
5) Vinyl Chloride	3.29	62	605721	8.691	ppbv	97
6) Bromomethane	3.51	94	393273	8.883	ppbv	97
7) Chloroethane	3.60	64	225505	8.913	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1566629	8.499	ppbv	100
9) Propene	3.03	41	459319	8.738	ppbv	100
10) Heptane	8.25	43	1271036	9.798	ppbv	99
11) Trichlorofluoromethane	4.00	101	1871171	8.949	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1252600	8.910	ppbv	100
13) Ethanol	3.64	45	122463	7.762	ppbv	100
14) Bromoethene	3.78	108	501458	9.050	ppbv	99
15) Acetone	3.90	43	1192329	8.394	ppbv	99
16) 1,3-Butadiene	3.36	39	551594	9.055	ppbv	99
17) tert-Butyl alcohol	4.35	59	1046692	9.702	ppbv	100
18) 1,1-Dichloroethene	4.35	96	555778	9.158	ppbv	97
19) Isopropyl Alcohol	4.02	45	788316	9.034	ppbv	99
20) Methylene Chloride	4.41	84	475517	8.817	ppbv	97
21) Allyl Chloride	4.47	41	825772	9.605	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	564920	9.272	ppbv	99
23) Vinyl Acetate	5.15	43	1814684	9.832	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1248149	8.940	ppbv	100
25) Ethyl Acetate	5.77	43	2227416	9.639	ppbv	100
26) Hexane	5.78	57	961233	9.677	ppbv	97
27) Carbon Disulfide	4.62	76	1387600	10.213	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1569329	9.380	ppbv	100
29) Chloroform	5.85	83	1675642	9.382	ppbv	98
30) Cyclohexane	7.25	84	819986	9.830	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	991348	10.032	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1690972	9.169	ppbv	99
34) 2-Butanone	5.33	43	1441224	10.063	ppbv	100
35) Carbon Tetrachloride	7.13	117	1859103	10.113	ppbv	100
36) Benzene	7.00	78	1979507	9.870	ppbv	100
37) 1,2-Dichloroethane	6.41	62	1291267	9.227	ppbv	99
38) Trichloroethene	7.96	130	808274	10.986	ppbv	98
39) 1,2-Dichloropropane	7.73	63	740101	9.901	ppbv	98
40) 1,4-Dioxane	7.95	88	287517	9.624	ppbv	93
41) Tetrahydrofuran	6.14	42	793822	10.725	ppbv	100
42) Bromodichloromethane	7.92	83	1815596	10.049	ppbv	99
43) Methyl Methacrylate	8.13	69	811509	10.757	ppbv	99

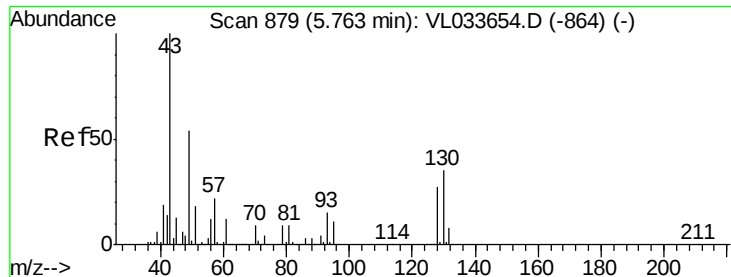
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050719\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3392123	9.892	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1131749	12.223	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1259297	10.897	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	856163	9.974	ppbv	99
48) Dibromochloromethane	10.45	129	1596626	10.972	ppbv	99
49) Bromoform	13.20	173	1432132	11.330	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2207658	10.179	ppbv	99
51) 2-Hexanone	10.27	43	1852609	11.026	ppbv #	100
52) Tetrachloroethene	11.37	164	781798	11.003	ppbv	95
53) Toluene	9.94	91	2389992	11.029	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1366072	10.565	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1078823	9.570	ppbv	97
57) Chlorobenzene	12.30	112	1879247	9.365	ppbv	99
58) Ethyl Benzene	12.86	91	3322074	10.424	ppbv	100
59) m/p-Xylene	13.15	91	5613547m	19.997	ppbv	
60) o-Xylene	13.85	91	2821548	9.932	ppbv	99
61) Styrene	13.69	104	2118810	11.201	ppbv	99
62) Isopropylbenzene	14.83	105	3831602	9.878	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1963046	9.495	ppbv	100
64) n-propylbenzene	15.72	120	998023	9.956	ppbv	100
65) tert-Butylbenzene	16.91	119	3530405	9.922	ppbv	100
66) Benzyl Chloride	17.15	91	2022612	12.495	ppbv	100
67) sec-Butylbenzene	17.45	105	4922714	9.916	ppbv	100
69) p-Isopropyltoluene	17.82	119	4113118	10.055	ppbv	100
70) n-Butylbenzene	18.71	91	4269747	9.843	ppbv	100
71) 2-Chlorotoluene	15.61	91	2922907	10.199	ppbv	100
72) 4-Ethyltoluene	16.00	105	3330948	9.975	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3192388	9.888	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3369423	9.388	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1982208	9.144	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1970103	9.577	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1874895	9.336	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1405460	8.831	ppbv	100
79) Naphthalene	22.41	128	2887903	8.814	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1083705	8.748	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1596268	8.385	ppbv	100

(#) = 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 :

VSTDCCC010

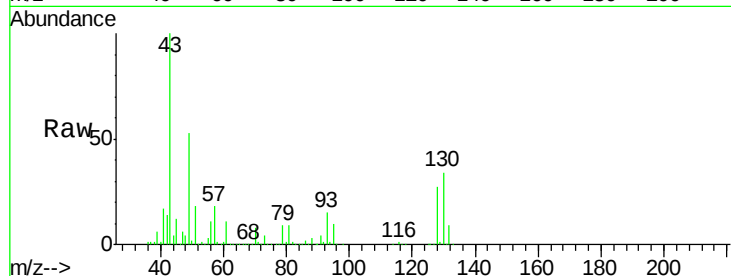
Tot Ion: 49 Resp: 954766

Ion Ratio Lower Upper

49 100

128 49.1 24.8 74.3

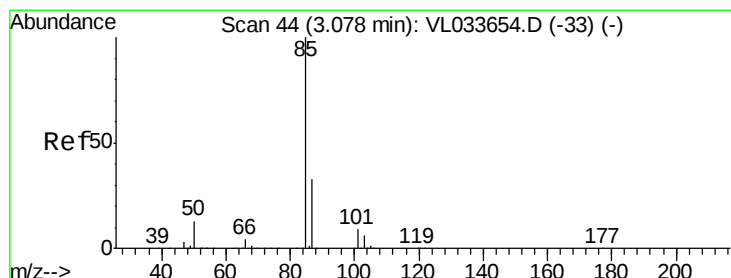
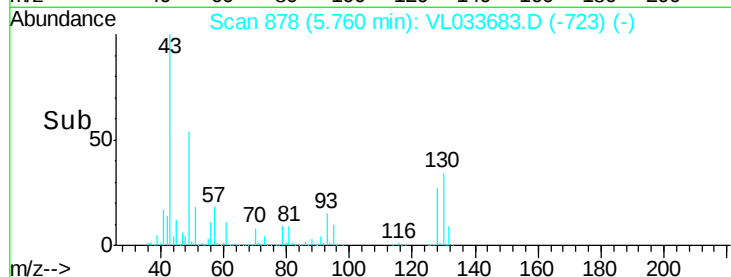
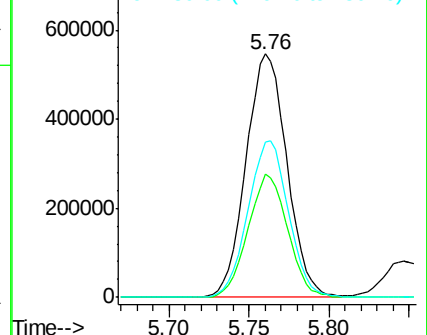
130 64.1 32.1 96.5



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: 7.185 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.01 min

Lab File: VL033683.D

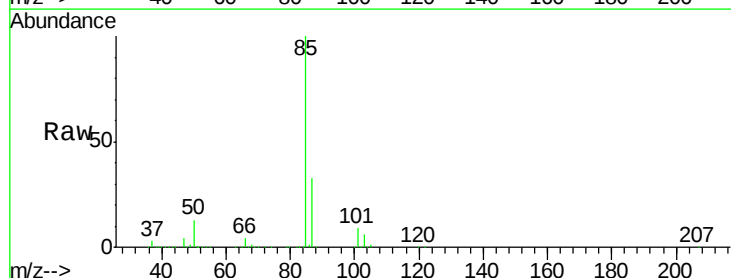
Acq: 7 May 2019 15:34

Tgt Ion: 85 Resp: 1608962

Ion Ratio Lower Upper

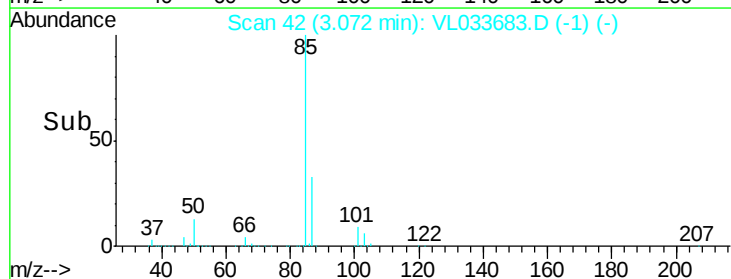
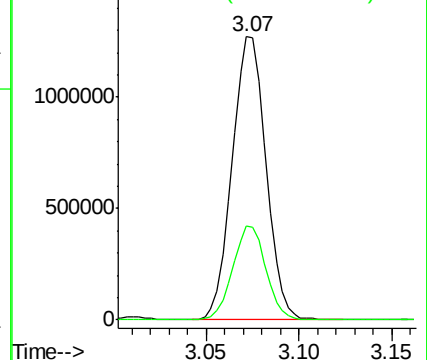
85 100

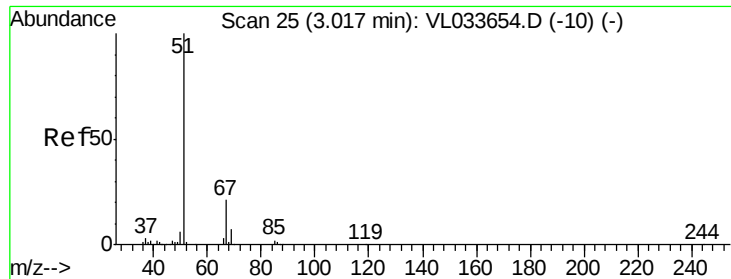
87 33.1 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.018 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

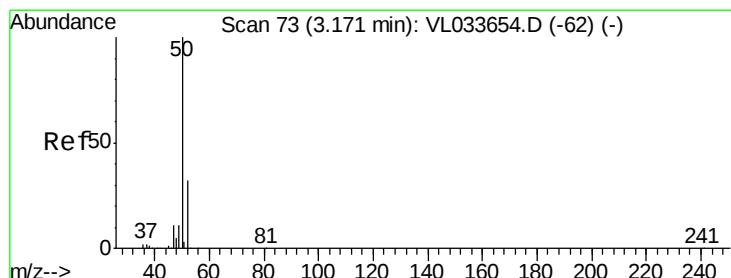
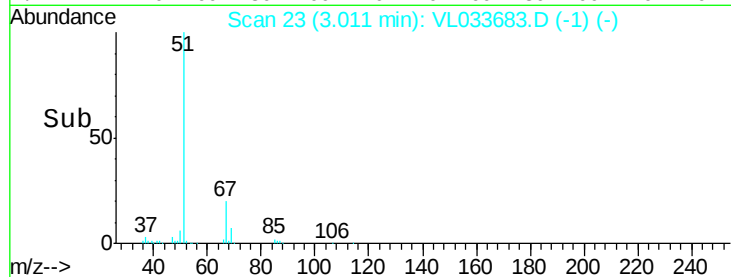
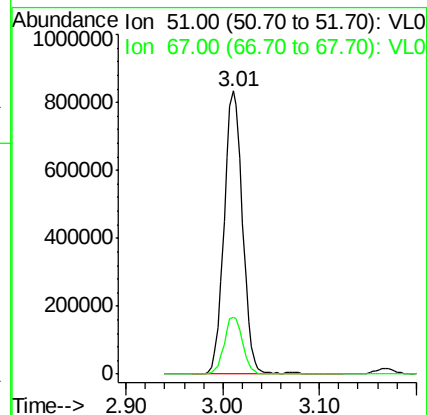
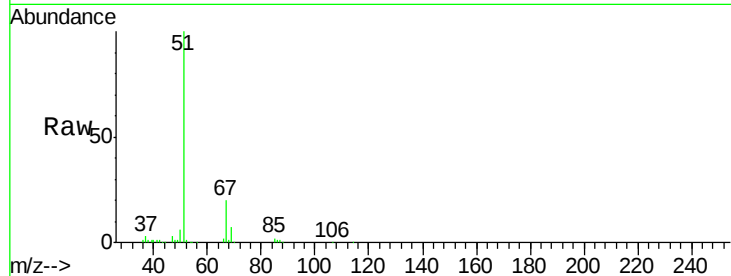
VSTDCCC010

Tot Ion: 51 Resp: 1105580

Ion Ratio Lower Upper

51 100

67 20.0 15.7 23.5



#4

Chloromethane

Concen: 8.426 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.01 min

Lab File: VL033683.D

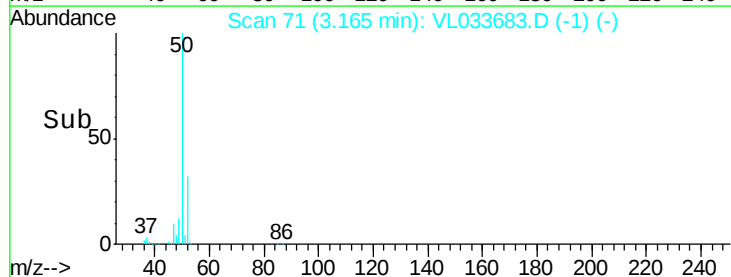
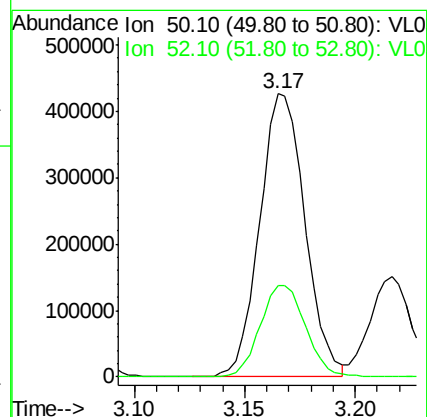
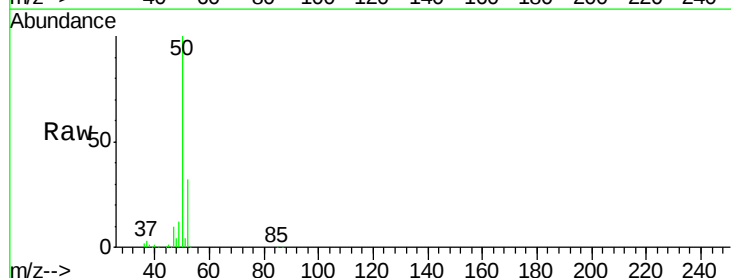
Acq: 7 May 2019 15:34

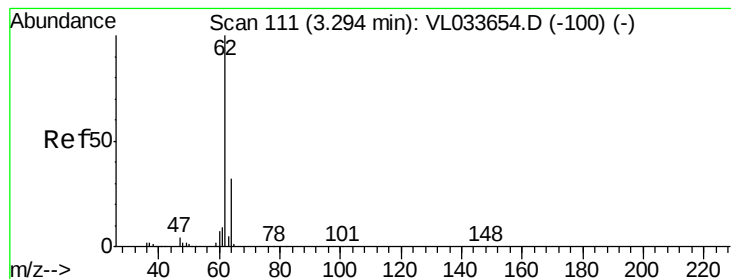
Tgt Ion: 50 Resp: 604047

Ion Ratio Lower Upper

50 100

52 32.4 25.8 38.8





#5

Vinyl Chloride

Concen: 8.691 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

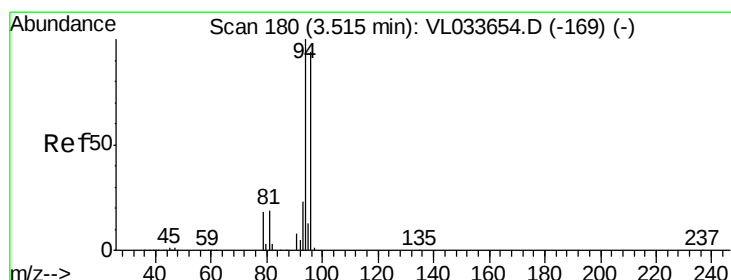
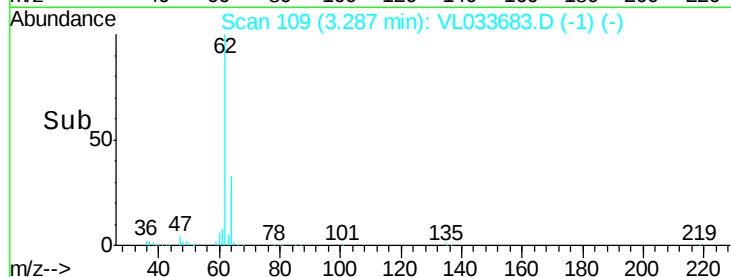
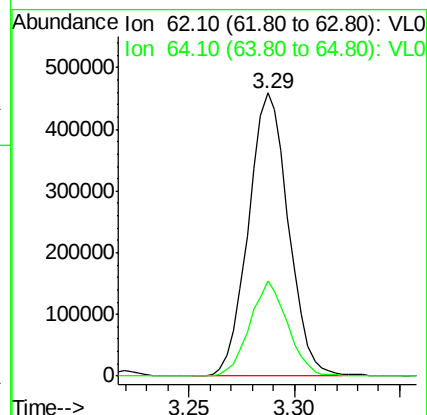
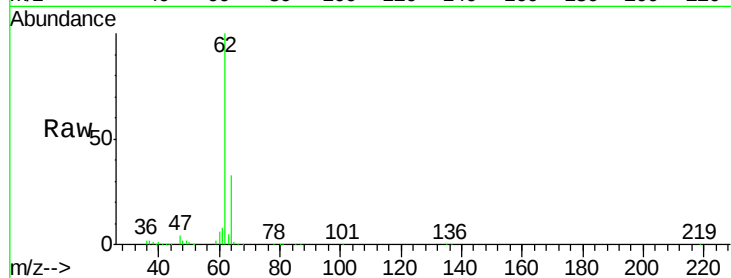
VSTDCCC010

Tot Ion: 62 Resp: 605721

Ion Ratio Lower Upper

62 100

64 33.5 25.6 38.4



#6

Bromomethane

Concen: 8.883 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.01 min

Lab File: VL033683.D

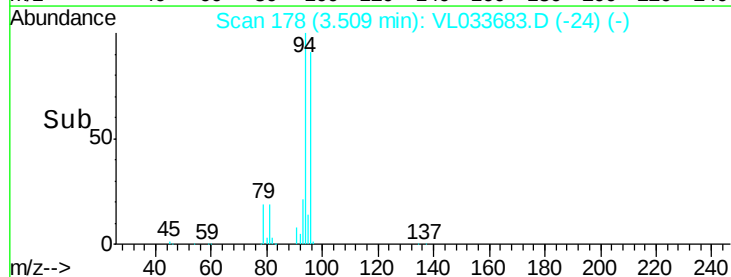
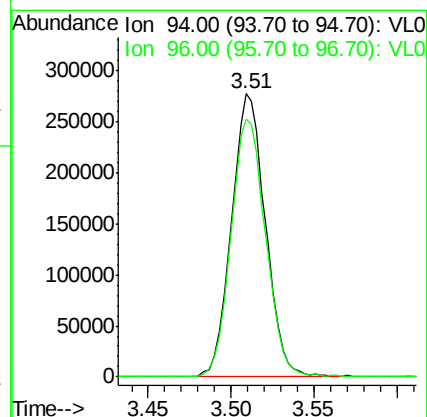
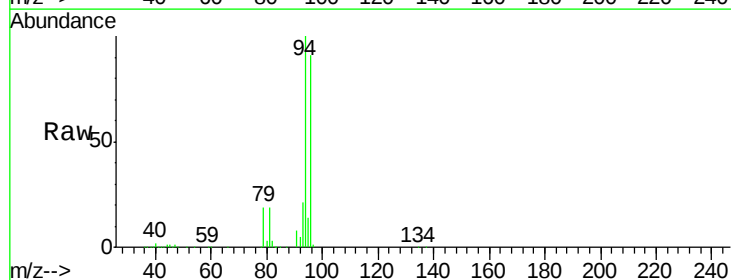
Acq: 7 May 2019 15:34

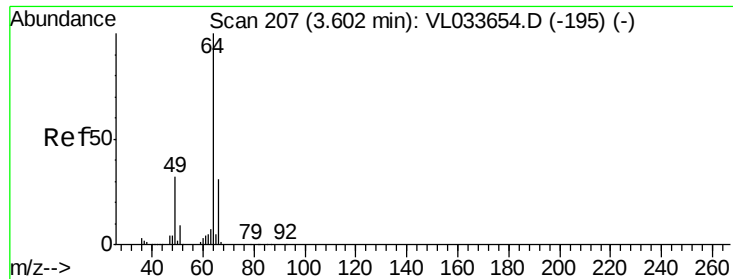
Tgt Ion: 94 Resp: 393273

Ion Ratio Lower Upper

94 100

96 90.9 75.2 112.8





#7

Chloroethane

Concen: 8.913 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

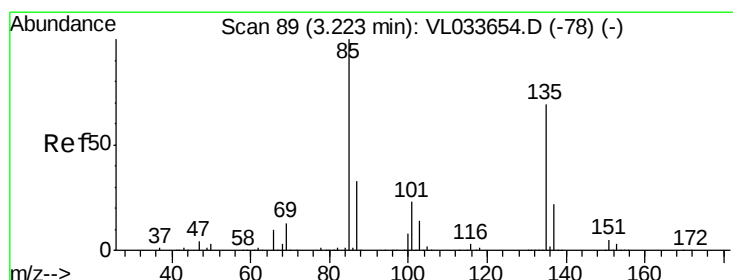
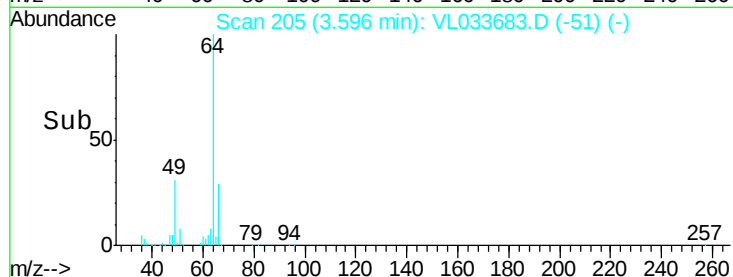
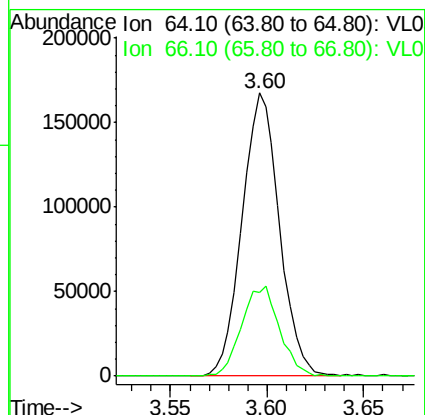
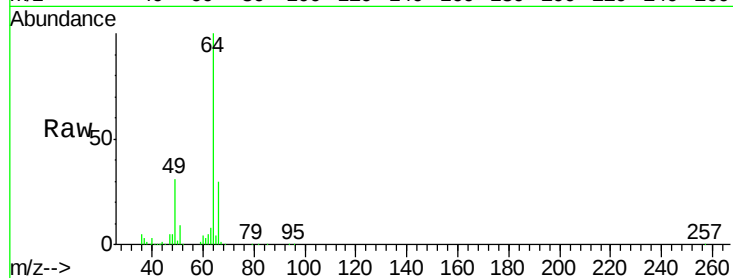
VSTDCCC010

Tot Ion: 64 Resp: 225505

Ion Ratio Lower Upper

64 100

66 29.8 25.1 37.7



#8

Dichlorotetrafluoroethane

Concen: 8.499 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033683.D

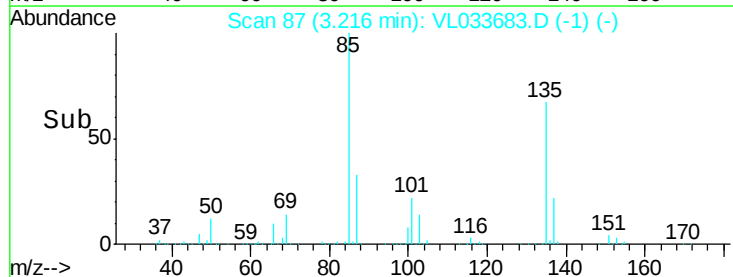
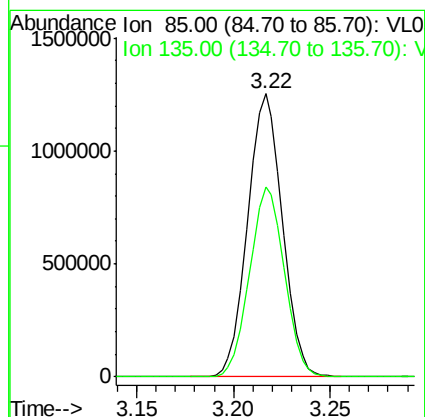
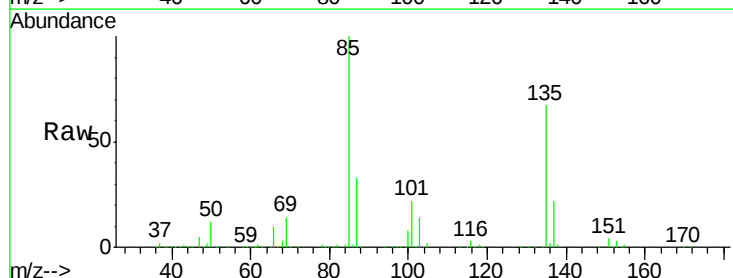
Acq: 7 May 2019 15:34

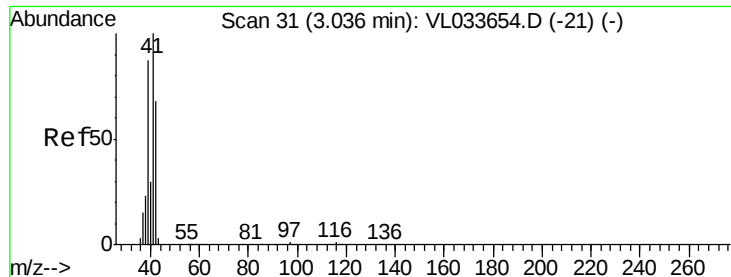
Tgt Ion: 85 Resp: 1566629

Ion Ratio Lower Upper

85 100

135 67.6 54.3 81.5





#9

Propene

Concen: 8.738 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

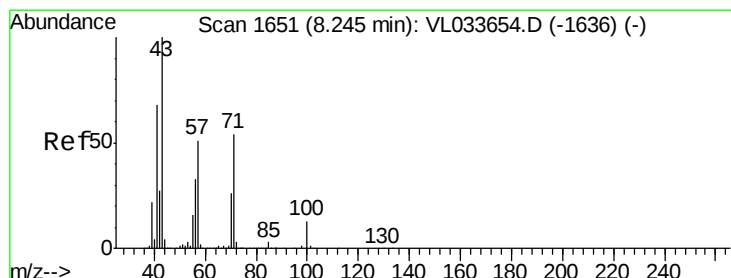
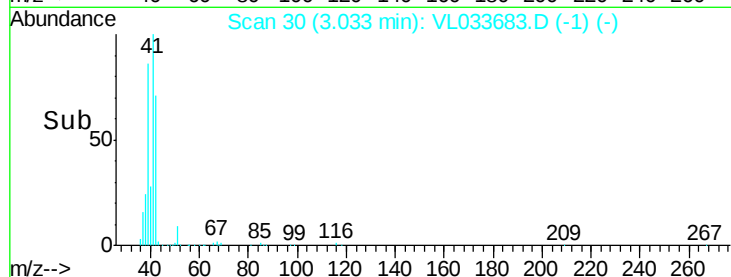
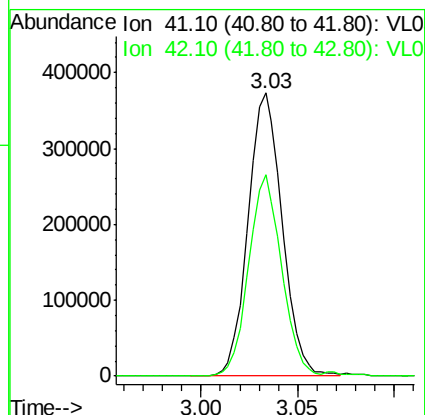
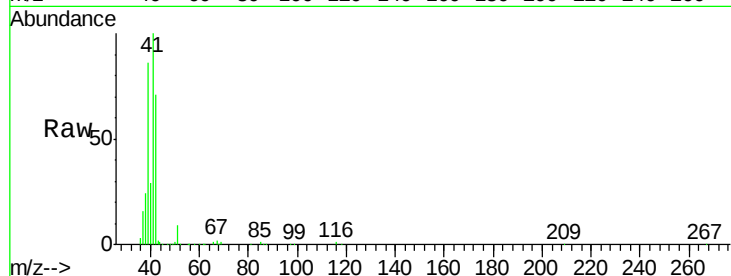
VSTDCCC010

Tot Ion: 41 Resp: 459319

Ion Ratio Lower Upper

41 100

42 69.9 55.6 83.4



#10

Heptane

Concen: 9.798 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033683.D

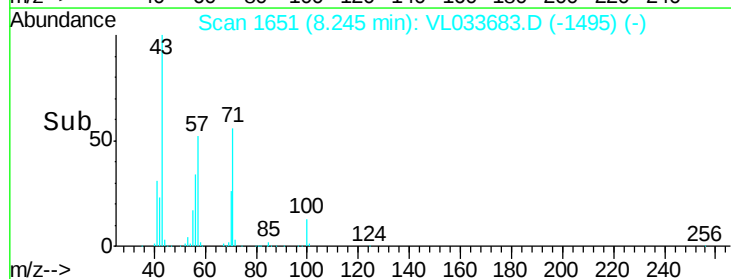
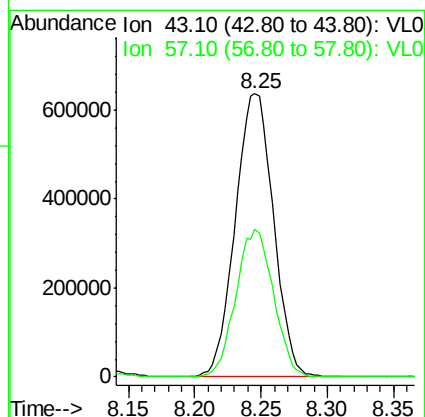
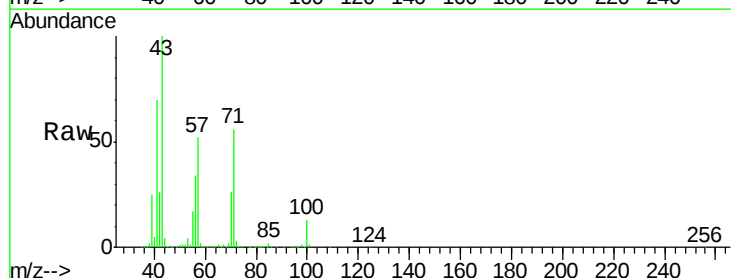
Acq: 7 May 2019 15:34

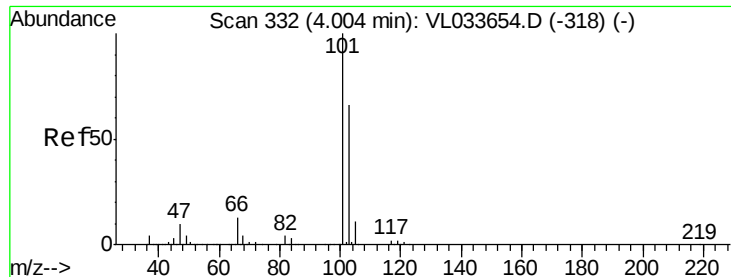
Tgt Ion: 43 Resp: 1271036

Ion Ratio Lower Upper

43 100

57 51.6 41.8 62.6

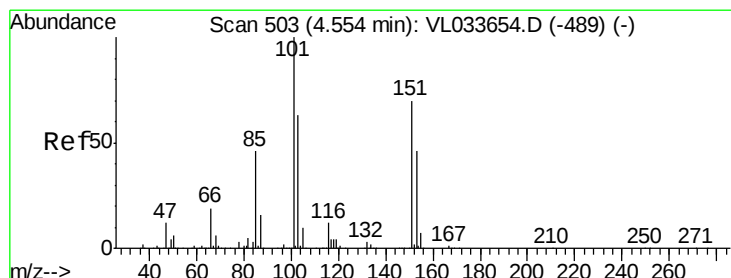
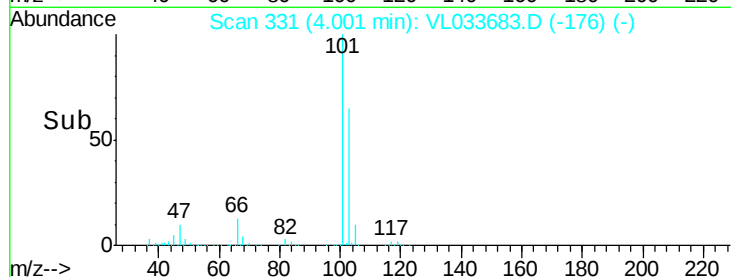
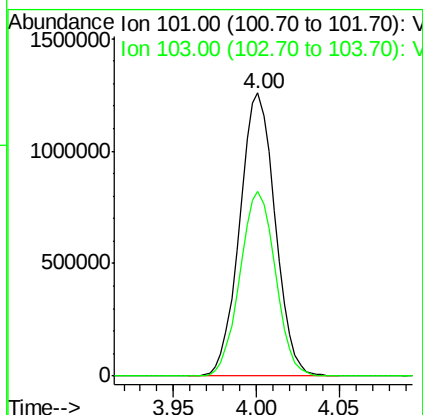
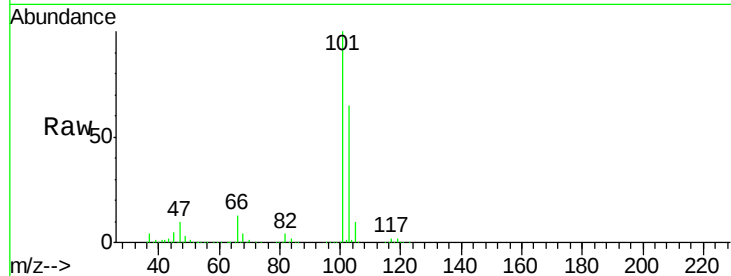




#11
 Trichlorofluoromethane
 Concen: 8.949 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

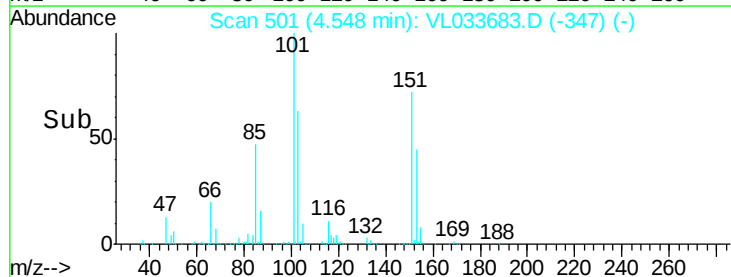
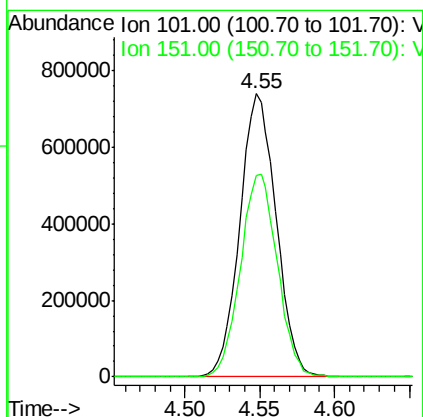
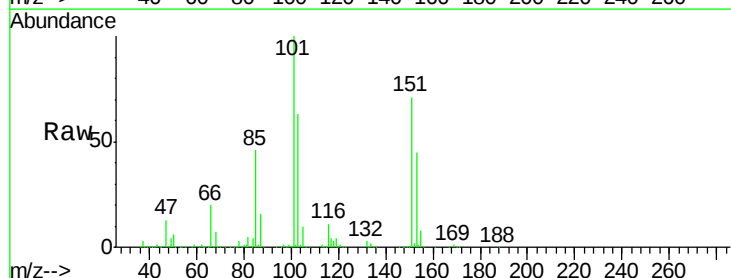
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

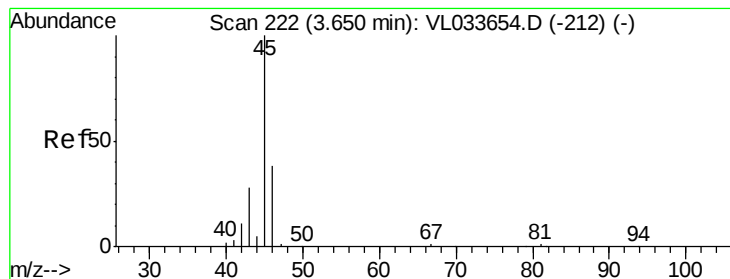
Tot Ion:101 Resp: 1871171
 Ion Ratio Lower Upper
 101 100
 103 65.3 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.910 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.01 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

Tgt Ion:101 Resp: 1252600
 Ion Ratio Lower Upper
 101 100
 151 72.7 58.0 87.0





#13

Ethanol

Concen: 7.762 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

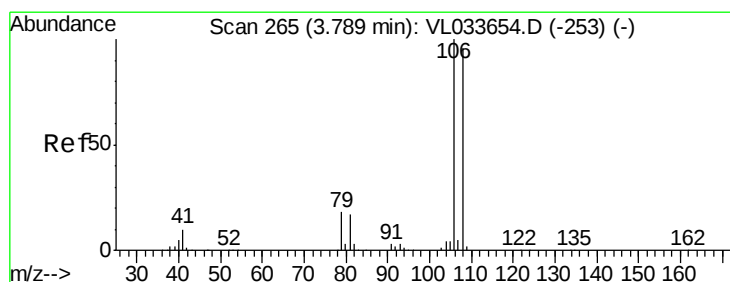
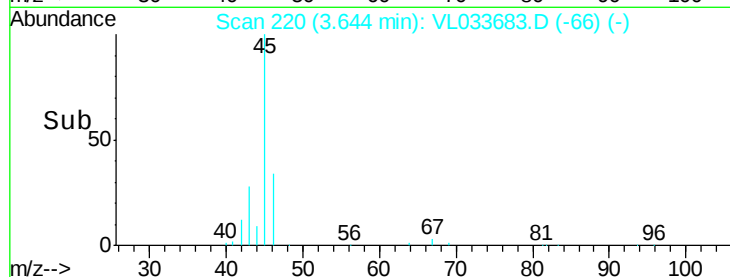
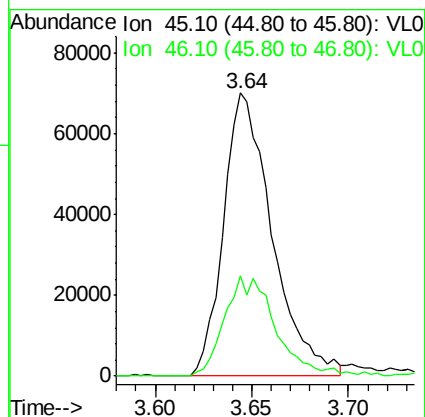
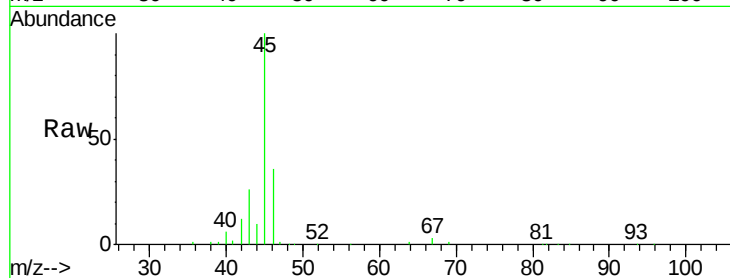
VSTDCCC010

Tot Ion: 45 Resp: 122463

Ion Ratio Lower Upper

45 100

46 37.5 14.9 59.7



#14

Bromoethene

Concen: 9.050 ppbv

RT: 3.78 min Scan# 263

Delta R.T. -0.01 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

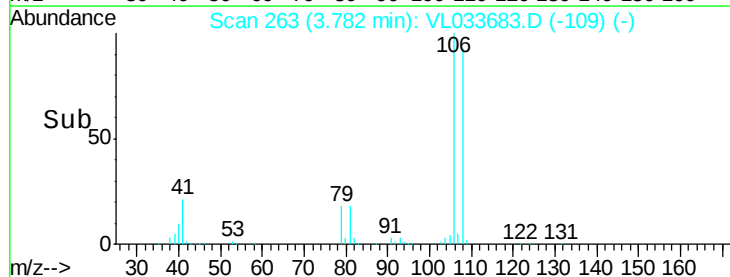
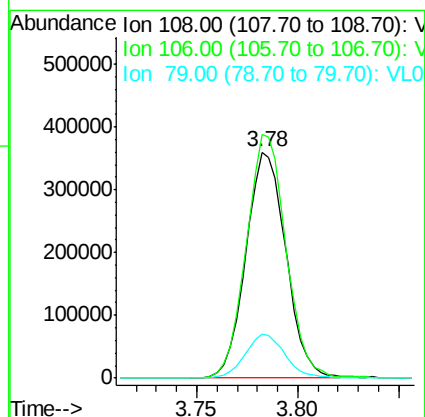
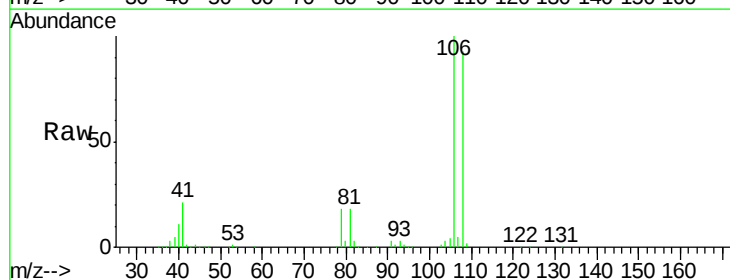
Tgt Ion: 108 Resp: 501458

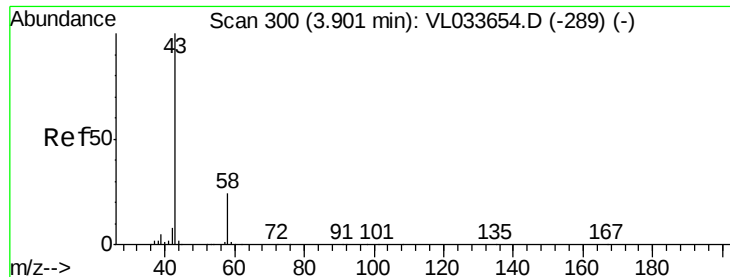
Ion Ratio Lower Upper

108 100

106 107.8 85.7 128.5

79 19.4 15.2 22.8





#15

Acetone

Concen: 8.394 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

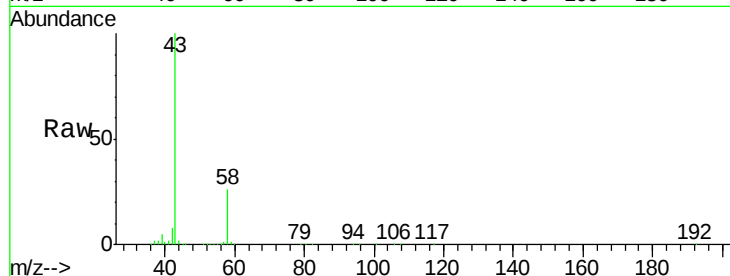
VSTDCCC010

Tot Ion: 43 Resp: 1192329

Ion Ratio Lower Upper

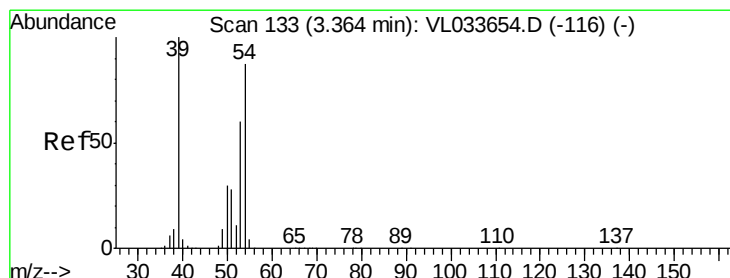
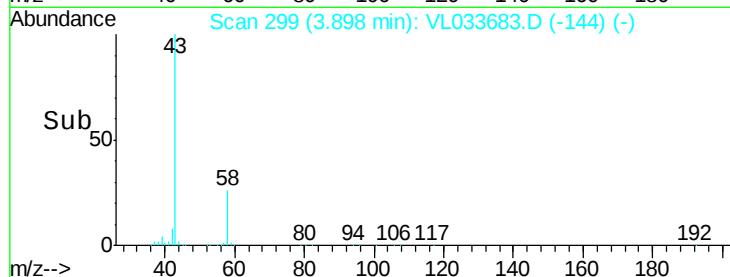
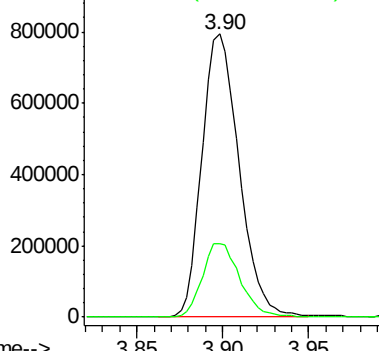
43 100

58 26.4 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.055 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033683.D

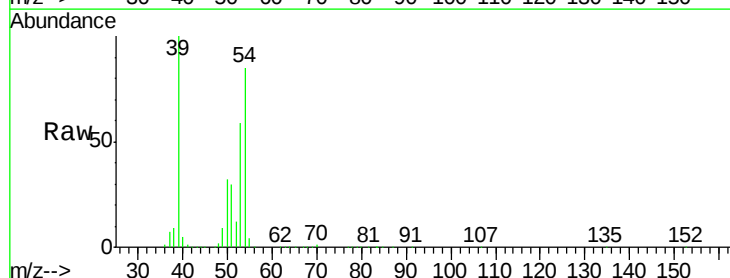
Acq: 7 May 2019 15:34

Tgt Ion: 39 Resp: 551594

Ion Ratio Lower Upper

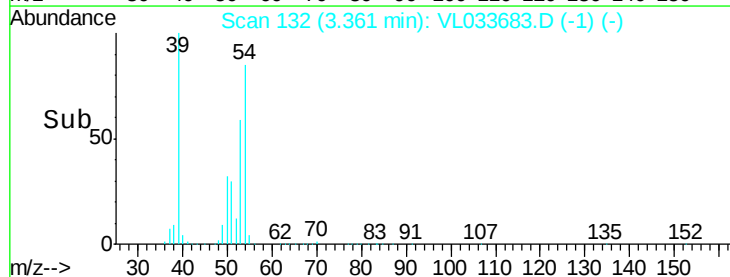
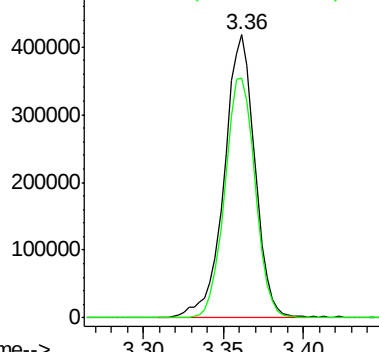
39 100

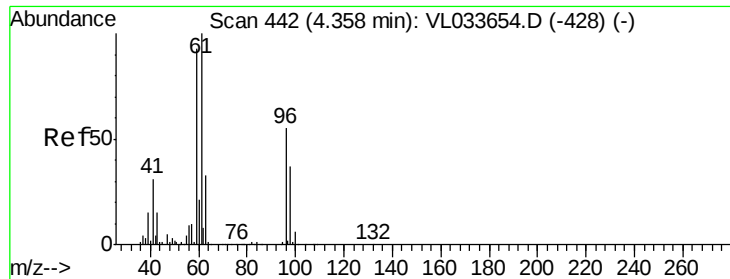
54 84.4 67.0 100.4



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





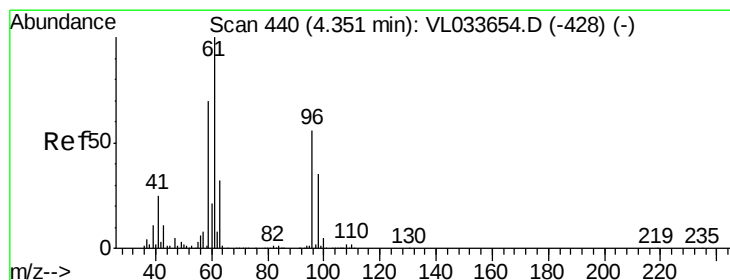
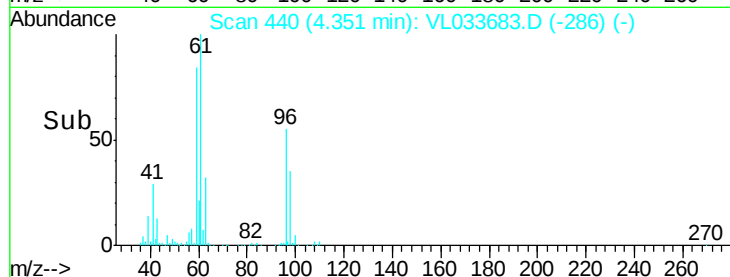
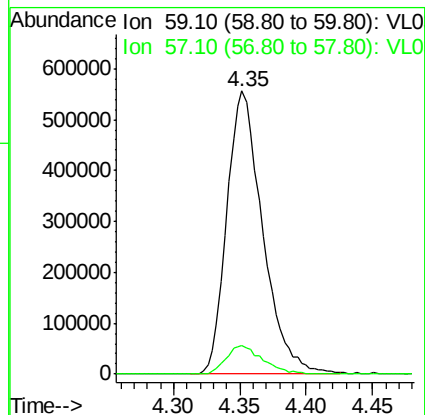
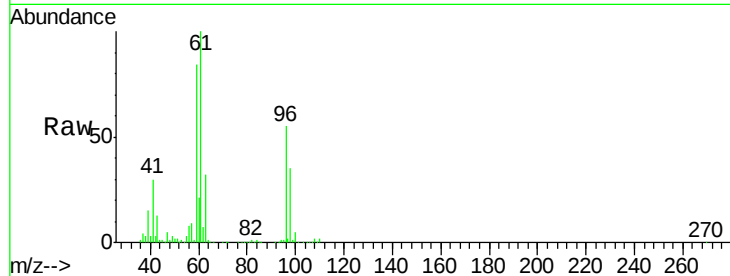
#17

tert-Butyl alcohol
Concen: 9.702 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.01 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1046692

Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.4	12.6

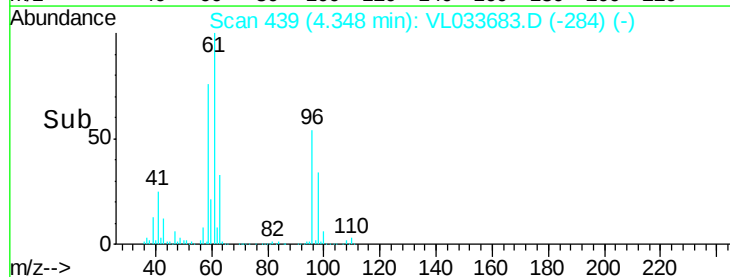
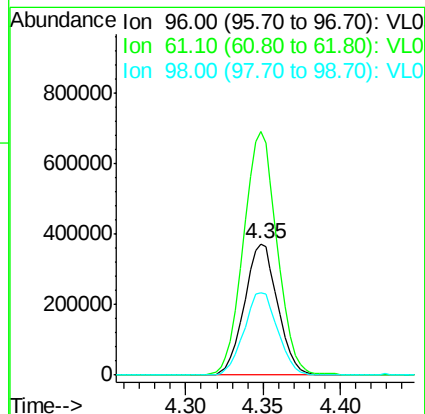
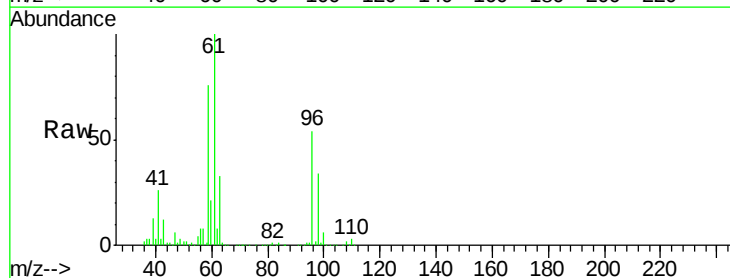


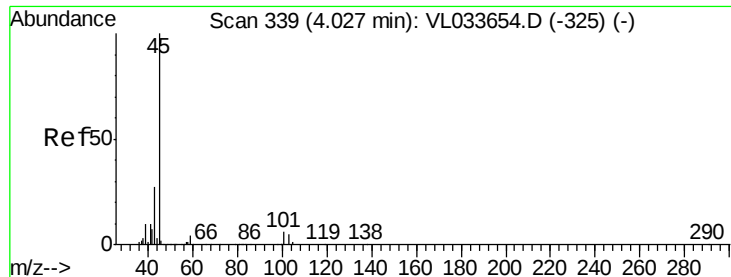
#18

1,1-Dichloroethene
Concen: 9.158 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Tgt Ion: 96 Resp: 555778

Ion	Ratio	Lower	Upper
96	100		
61	185.7	143.4	215.0
98	63.2	50.4	75.6





#19

Isopropyl Alcohol

Concen: 9.034 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.01 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

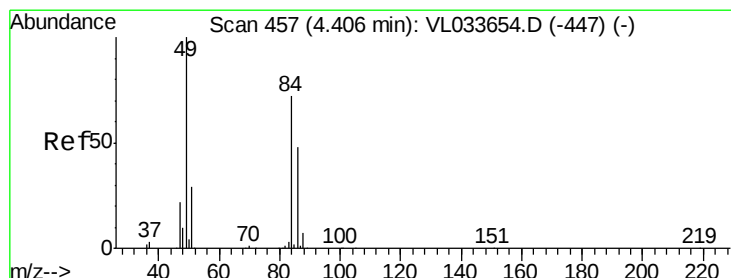
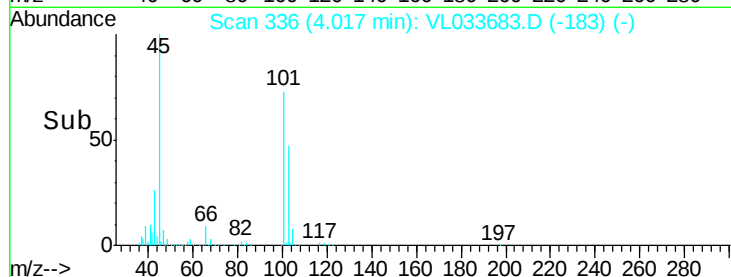
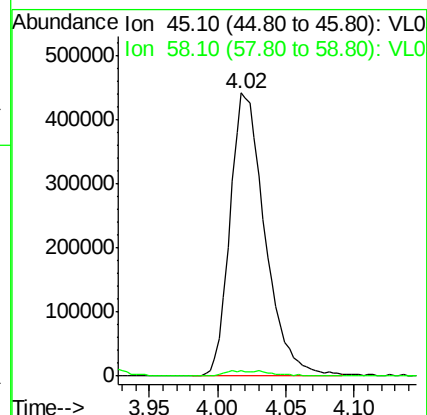
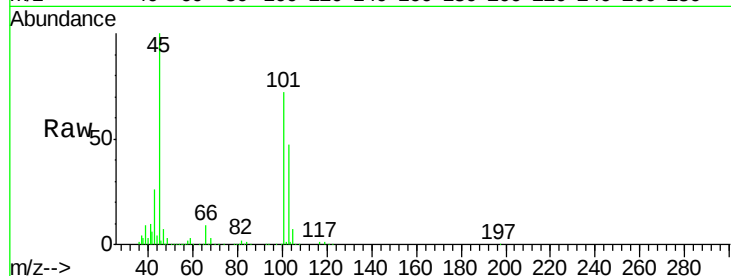
VSTDCCC010

Tot Ion: 45 Resp: 788316

Ion Ratio Lower Upper

45 100

58 2.7 2.0 3.0



#20

Methylene Chloride

Concen: 8.817 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Tgt Ion: 84 Resp: 475517

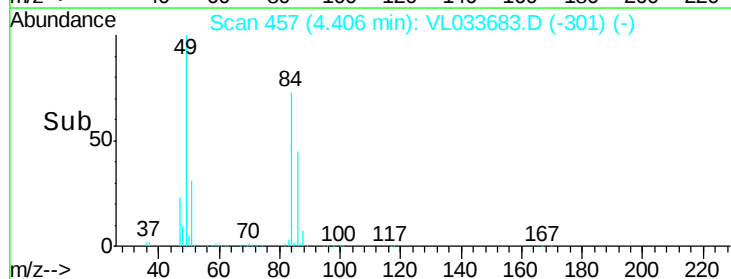
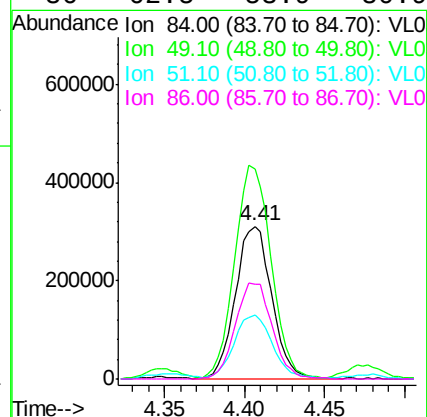
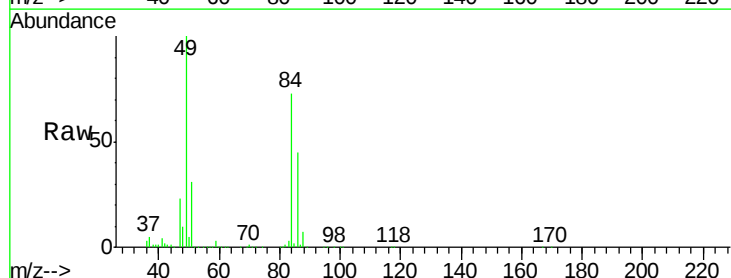
Ion Ratio Lower Upper

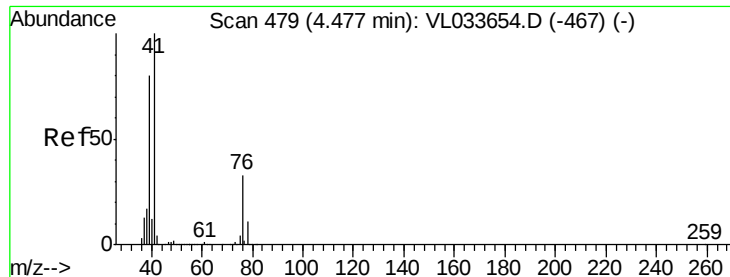
84 100

49 136.3 111.8 167.6

51 40.4 32.3 48.5

86 62.5 53.9 80.9

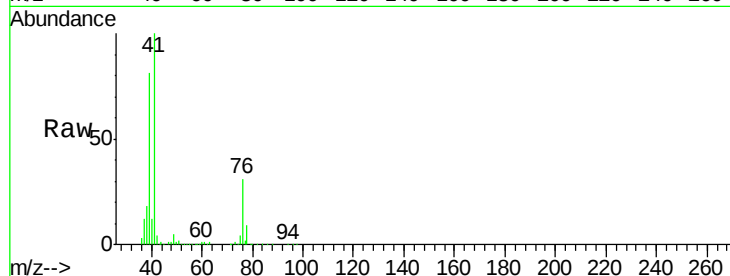




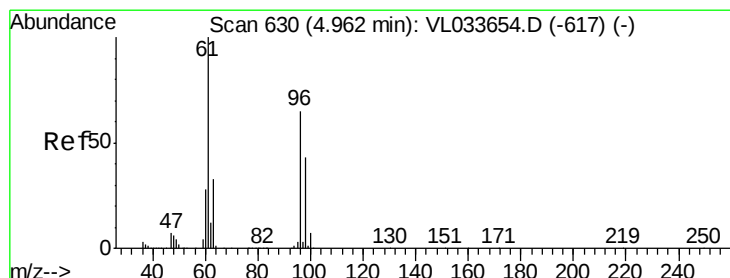
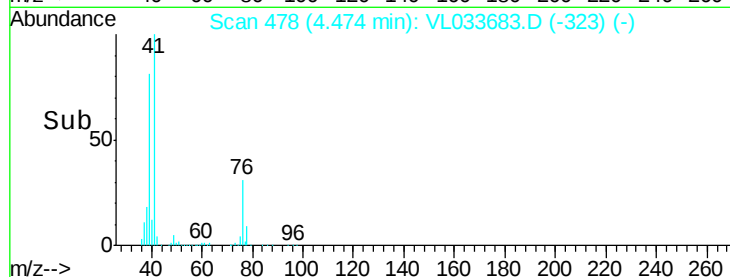
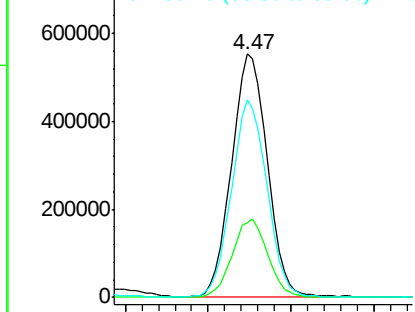
#21
Allvl Chloride
Concen: 9.605 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 41 Resp: 825772
Ion Ratio Lower Upper
41 100
76 32.0 26.0 39.0
39 81.3 64.4 96.6

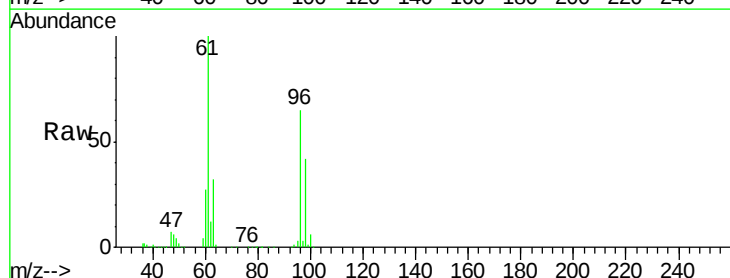


Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

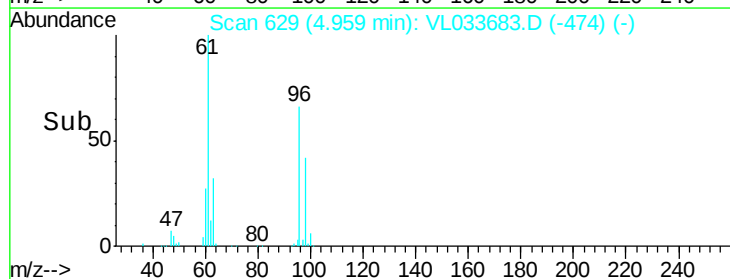
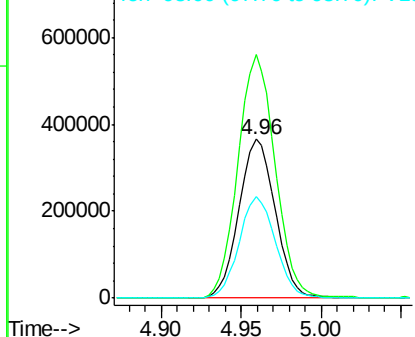


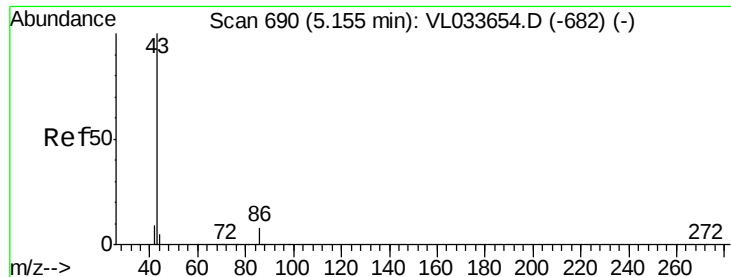
#22
trans-1,2-Dichloroethene
Concen: 9.272 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Tgt Ion: 96 Resp: 564920
Ion Ratio Lower Upper
96 100
61 153.2 123.1 184.7
98 64.0 52.6 79.0



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: 9.832 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1814684

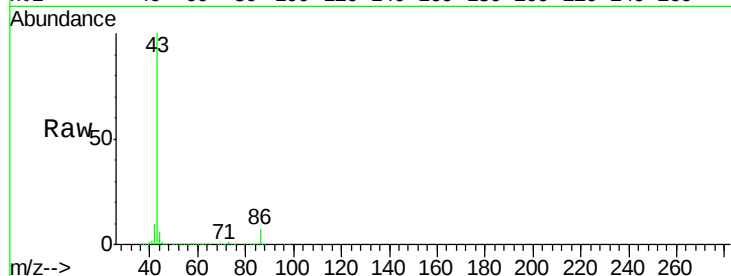
Ion Ratio Lower Upper

43 100

86 7.2 6.0 9.0

42 10.2 8.0 12.0

44 5.8 3.9 5.9

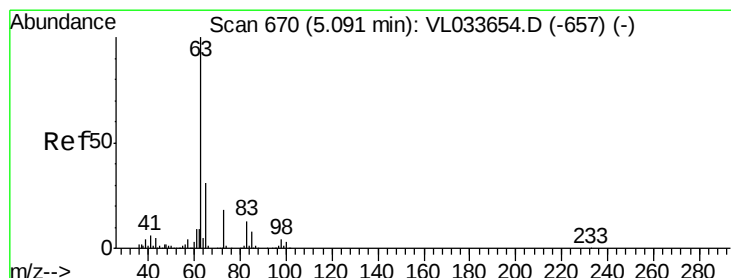
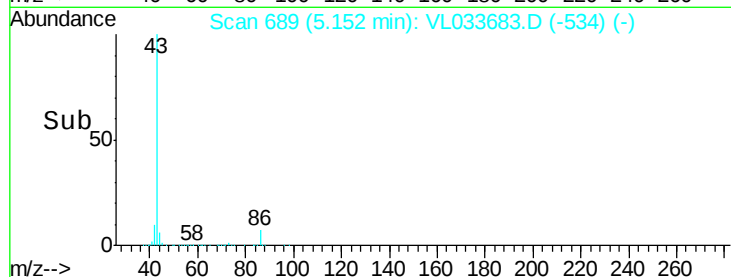
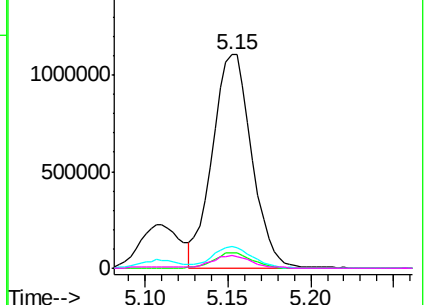


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.940 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

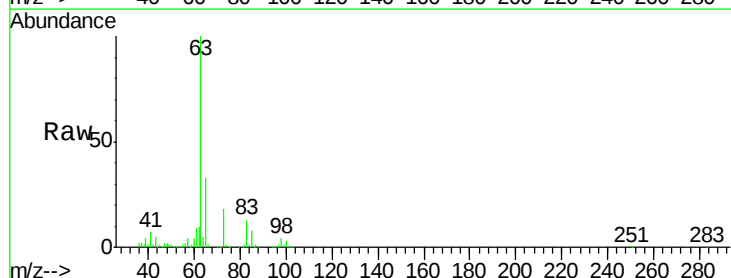
Tgt Ion: 63 Resp: 1248149

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.2

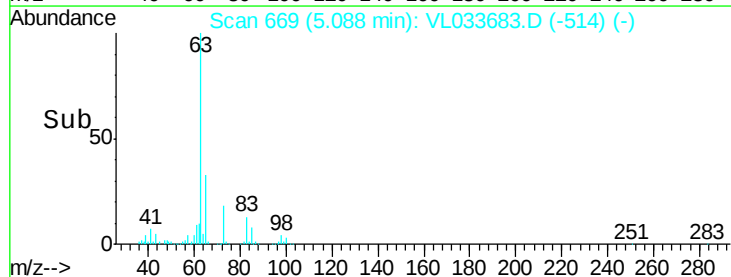
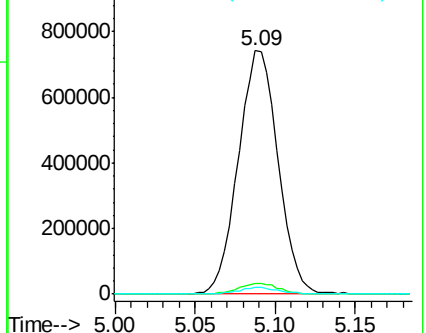
100 2.7 1.5 4.4

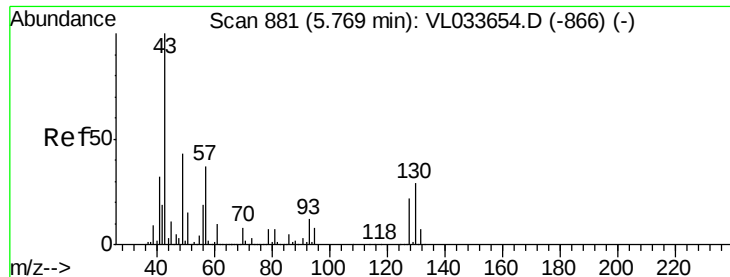


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



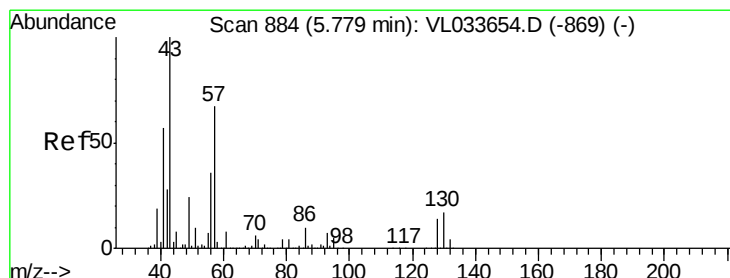
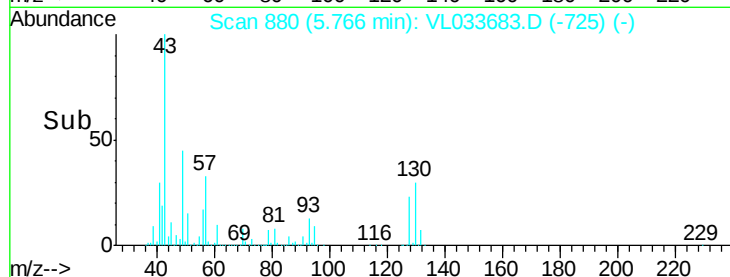
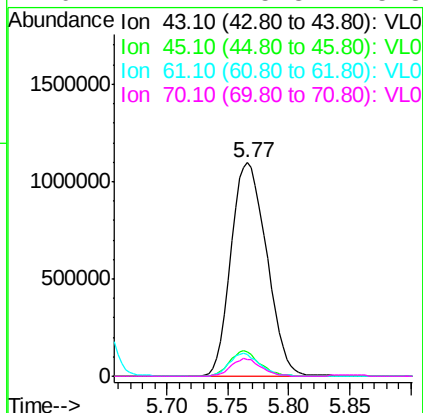
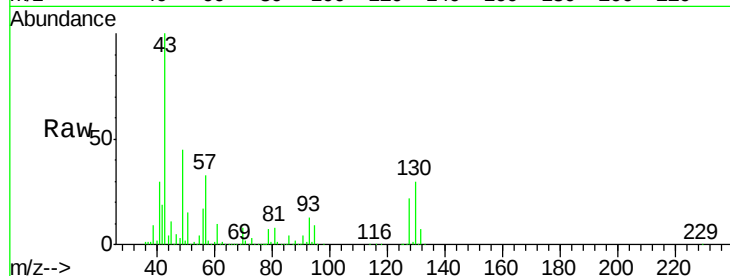


#25
Ethyl Acetate
Concen: 9.639 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 2227416

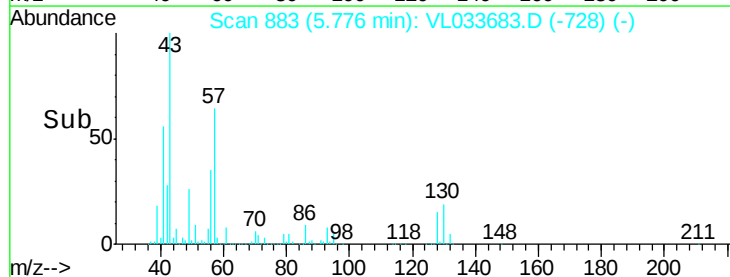
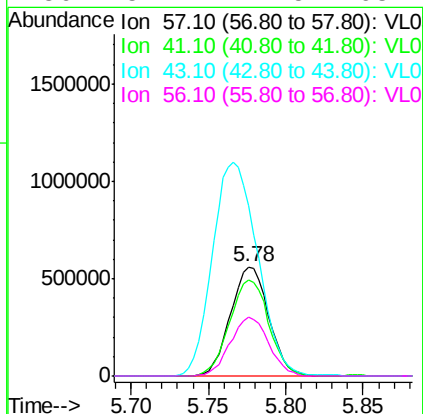
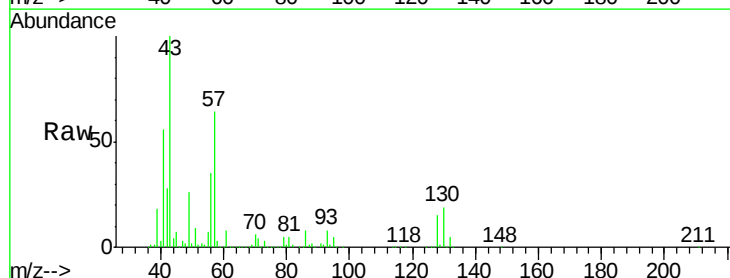
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.0	12.0
61	9.4	7.5	11.3
70	7.1	5.8	8.8

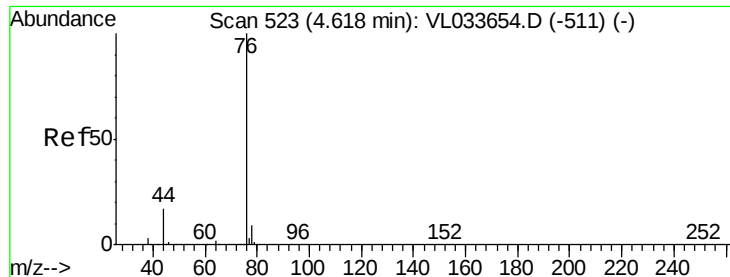


#26
Hexane
Concen: 9.677 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Tgt Ion: 57 Resp: 961233

Ion	Ratio	Lower	Upper
57	100		
41	91.1	69.7	104.5
43	232.6	181.9	272.9
56	54.1	42.5	63.7

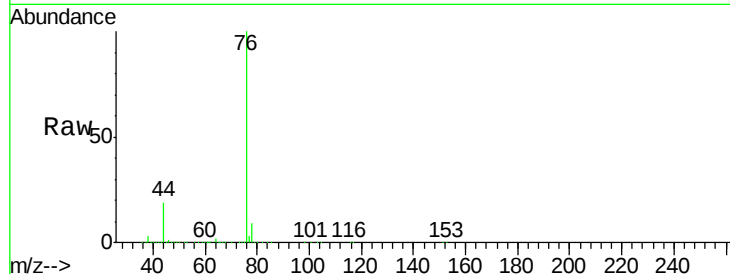




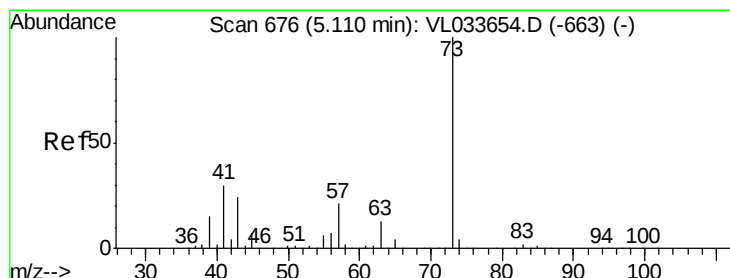
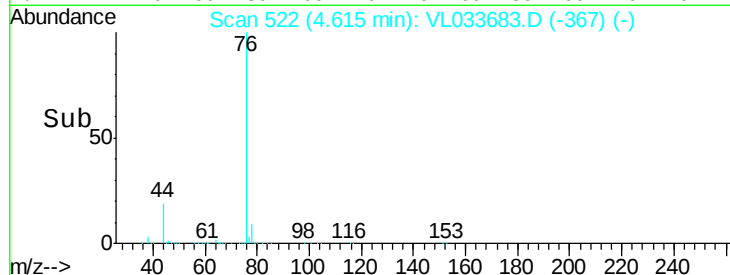
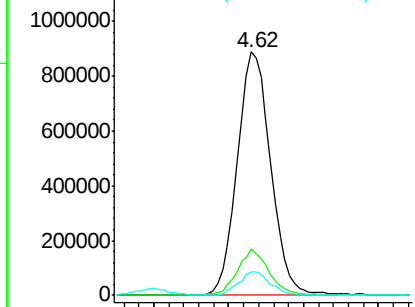
#27
Carbon Disulfide
Concen: 10.213 ppbv
RT: 4.62 min Scan# 522
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 76 Resp: 1387600
Ion Ratio Lower Upper
76 100
44 17.8 14.4 21.6
78 9.3 7.4 11.2

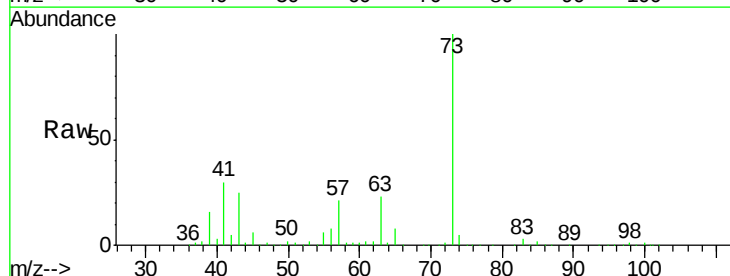


Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

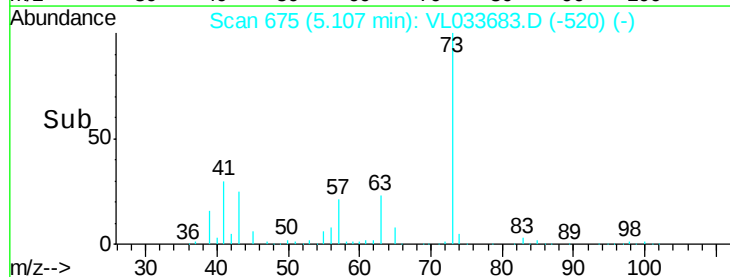
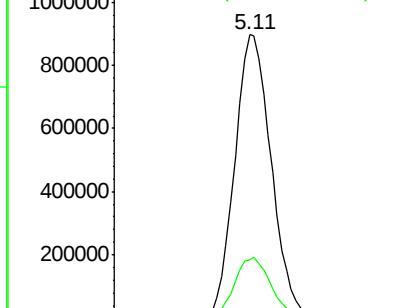


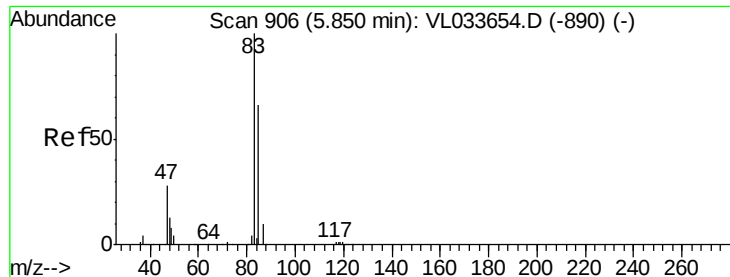
#28
Methyl tert-Butyl Ether
Concen: 9.380 ppbv
RT: 5.11 min Scan# 675
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Tgt Ion: 73 Resp: 1569329
Ion Ratio Lower Upper
73 100
57 21.7 17.4 26.0



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





#29

Chloroform

Concen: 9.382 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

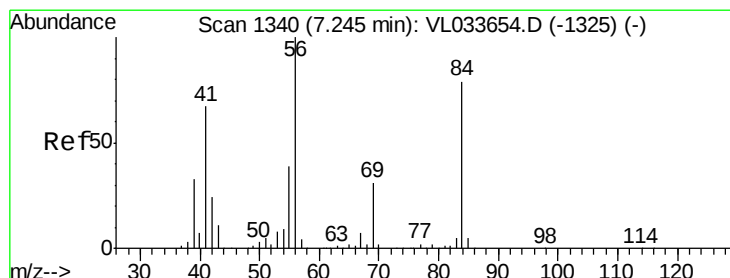
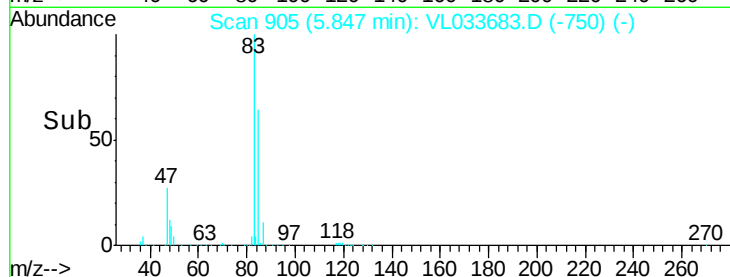
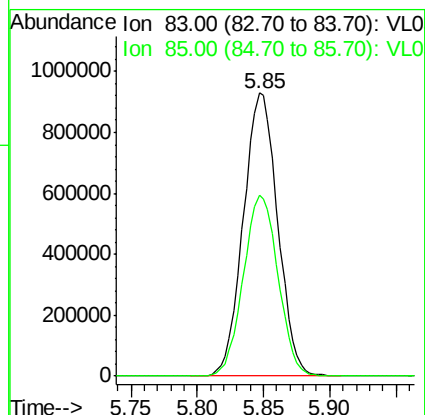
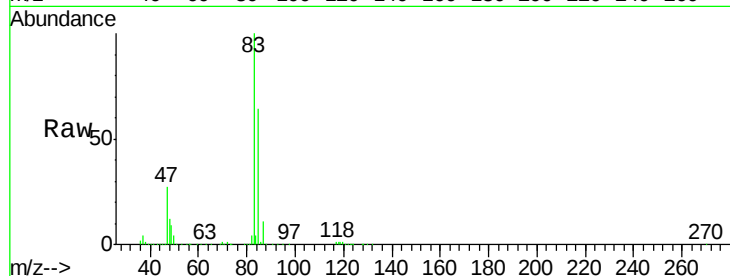
VSTDCCC010

Tot Ion: 83 Resp: 1675642

Ion Ratio Lower Upper

83 100

85 64.0 52.6 78.8



#30

Cyclohexane

Concen: 9.830 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

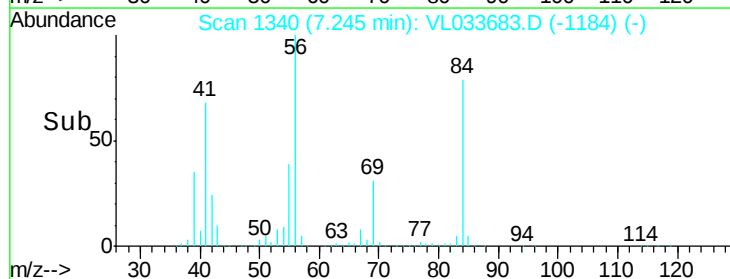
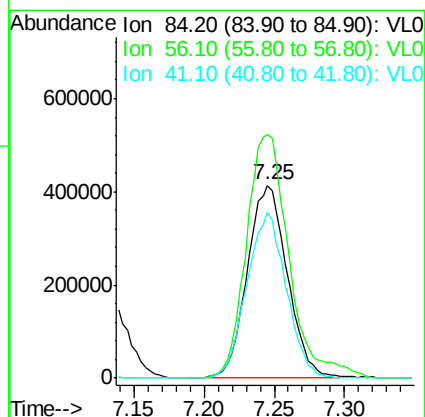
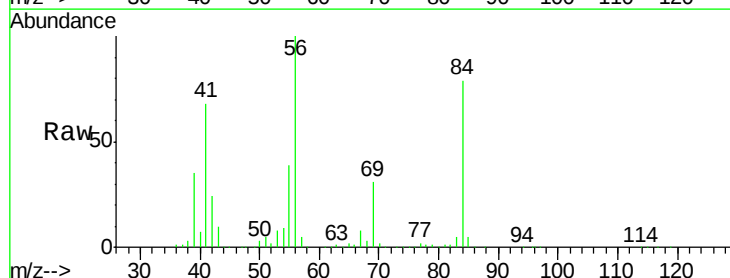
Tgt Ion: 84 Resp: 819986

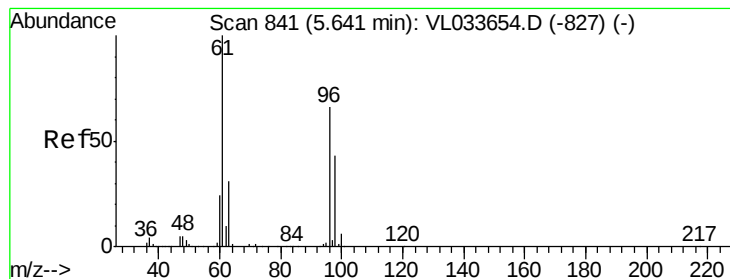
Ion Ratio Lower Upper

84 100

56 135.7 107.0 160.4

41 84.7 66.6 99.8





#31

cis-1,2-Dichloroethene

Concen: 10.032 ppbv

RT: 5.64 min Scan# 841

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

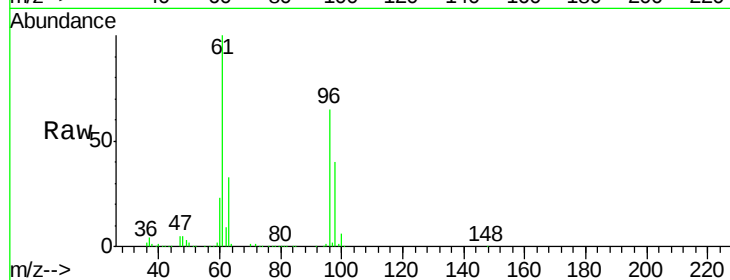
Tot Ion: 61 Resp: 991348

Ion Ratio Lower Upper

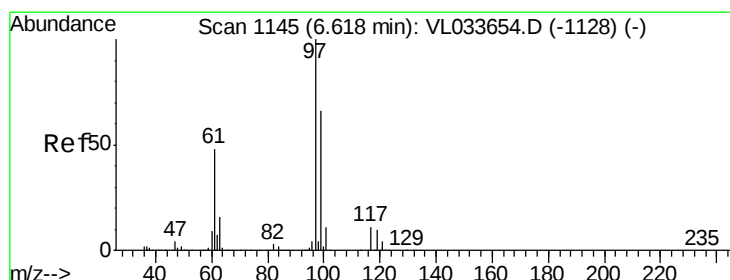
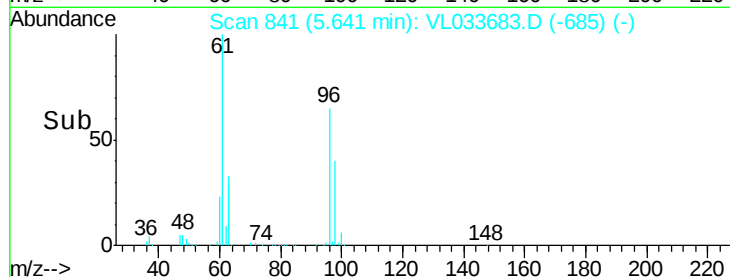
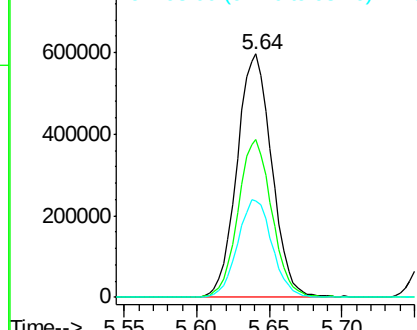
61 100

96 64.6 53.2 79.8

98 39.8 34.2 51.4



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.169 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

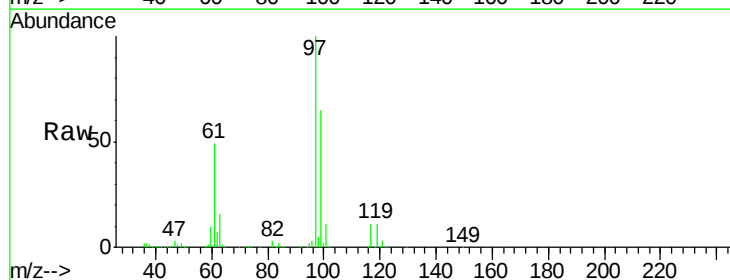
Tgt Ion: 97 Resp: 1690972

Ion Ratio Lower Upper

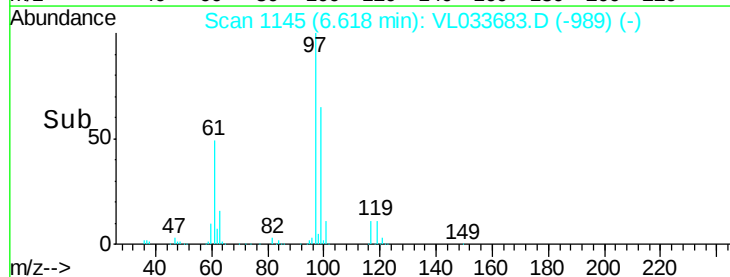
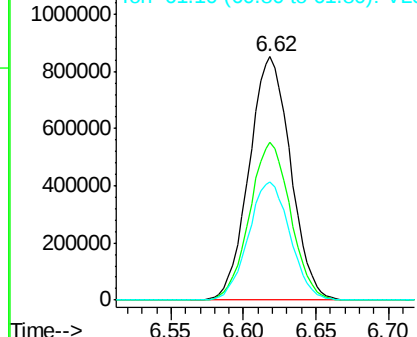
97 100

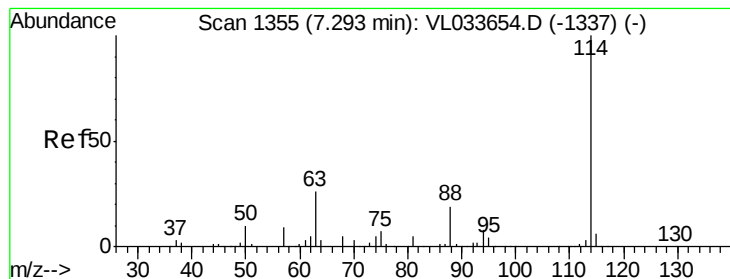
99 64.5 51.4 77.2

61 49.1 38.5 57.7



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: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDC0010

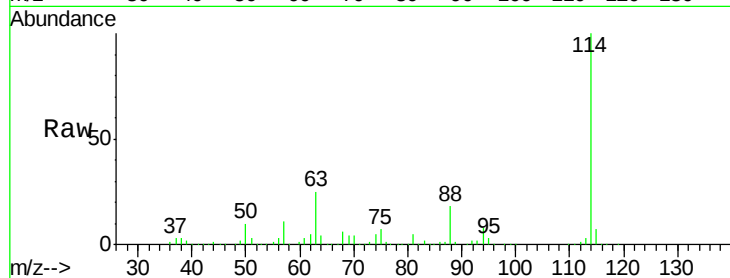
Tot Ion:114 Resp: 2236675

Ion Ratio Lower Upper

114 100

63 26.6 21.3 31.9

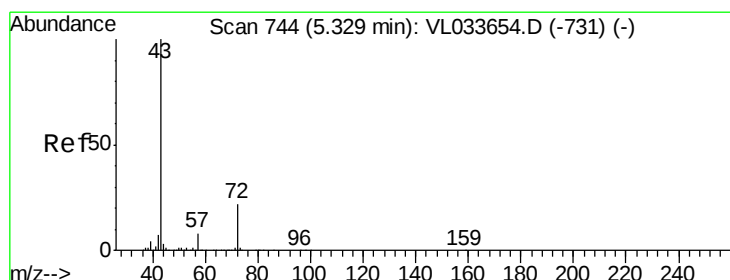
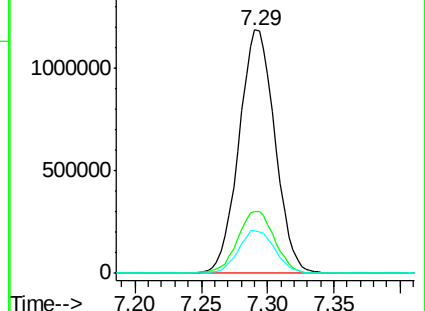
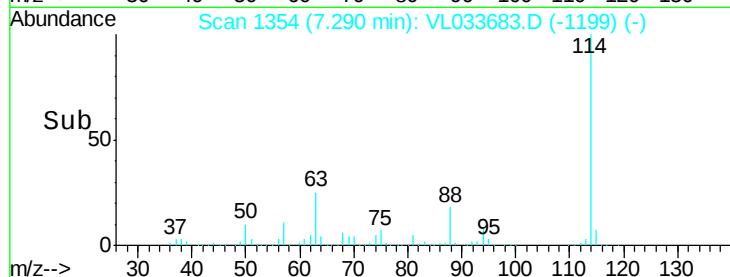
88 17.9 14.4 21.6



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: 10.063 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033683.D

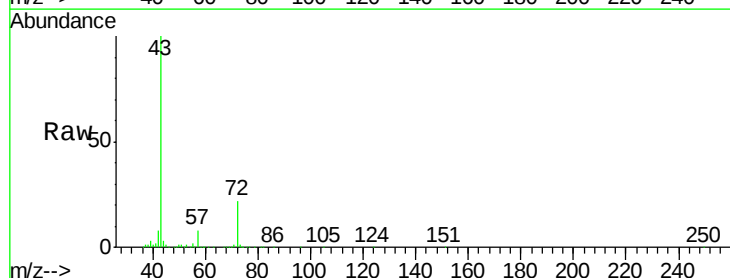
Acq: 7 May 2019 15:34

Tgt Ion: 43 Resp: 1441224

Ion Ratio Lower Upper

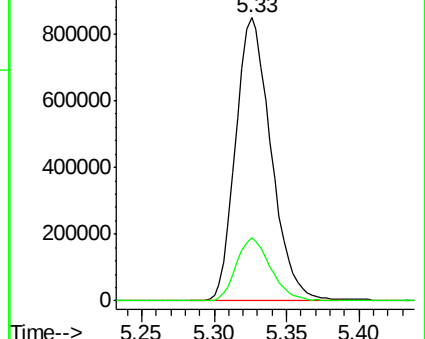
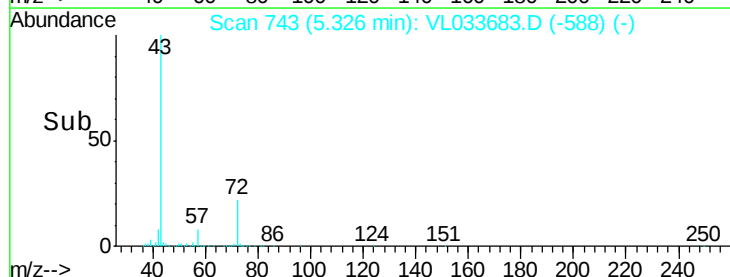
43 100

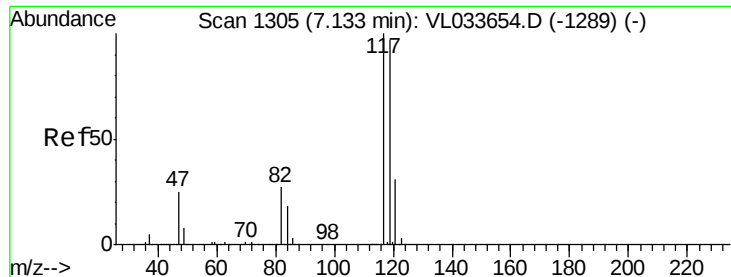
72 21.8 17.5 26.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.113 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

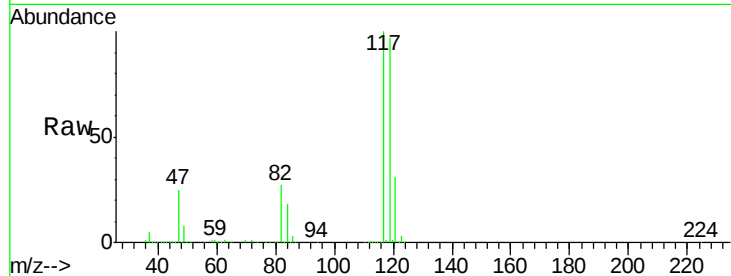
Tot Ion:117 Resp: 1859103

Ion Ratio Lower Upper

117 100

119 97.2 77.9 116.9

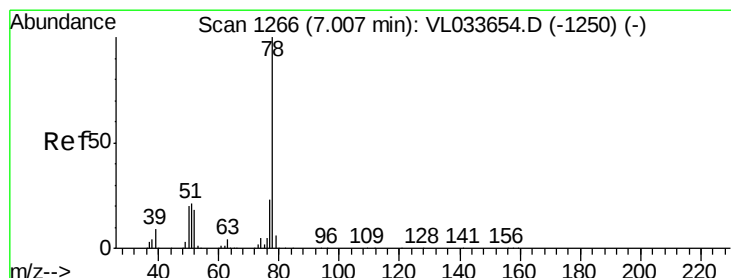
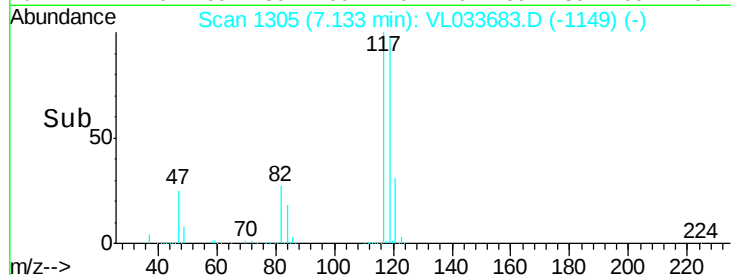
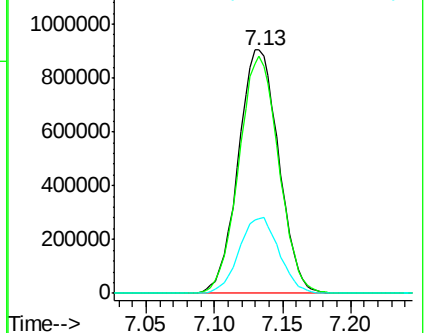
121 30.9 25.0 37.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.870 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

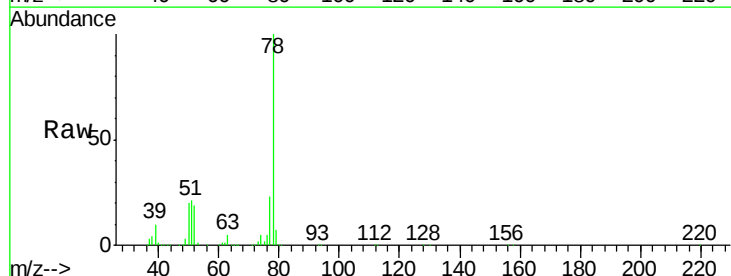
Tgt Ion: 78 Resp: 1979507

Ion Ratio Lower Upper

78 100

77 22.9 18.2 27.2

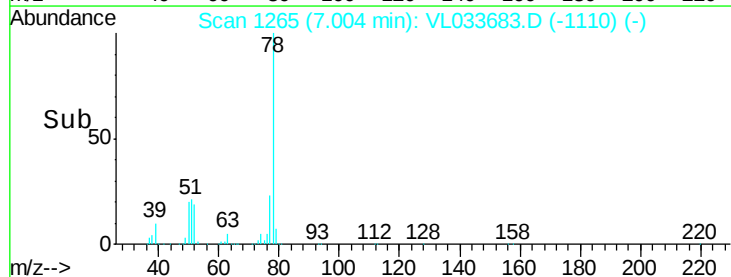
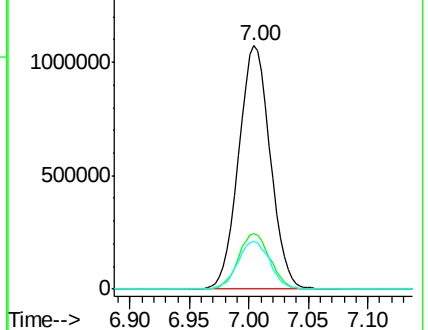
50 19.5 15.8 23.6

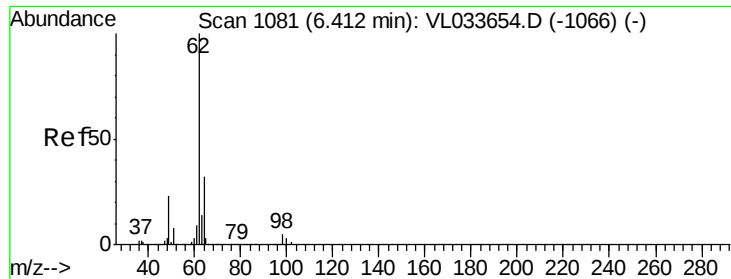


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.227 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

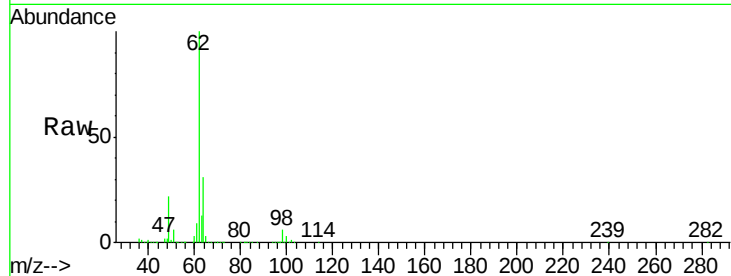
VSTDCCC010

Tot Ion: 62 Resp: 1291267

Ion Ratio Lower Upper

62 100

98 5.4 4.5 6.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.41

800000

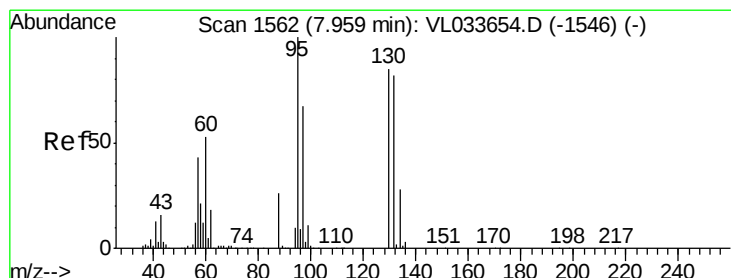
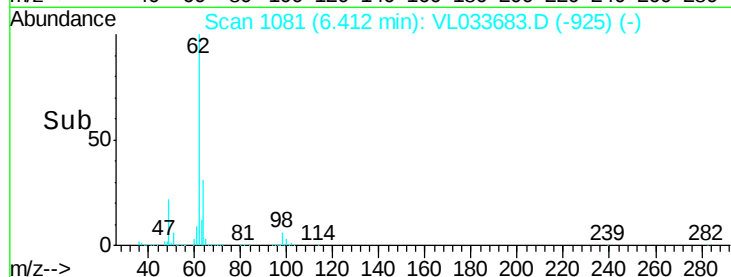
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 10.986 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Tgt Ion:130 Resp: 808274

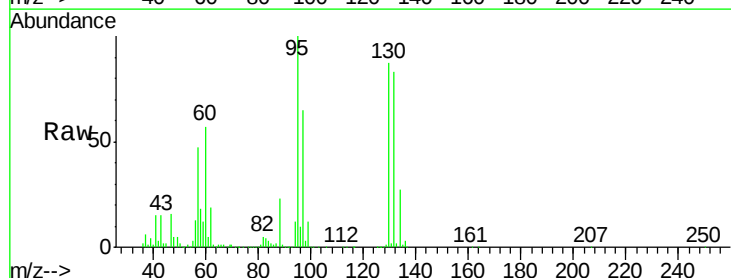
Ion Ratio Lower Upper

130 100

95 115.6 93.4 140.0

132 96.3 76.2 114.4

97 75.1 62.2 93.4



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

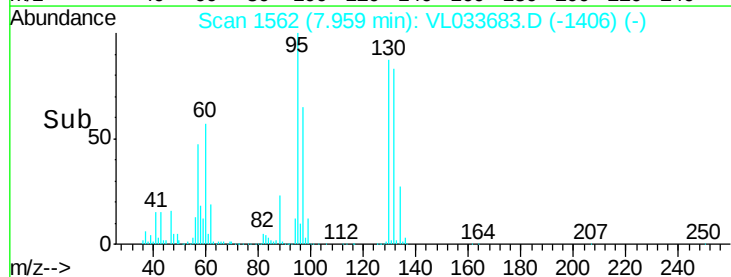
600000

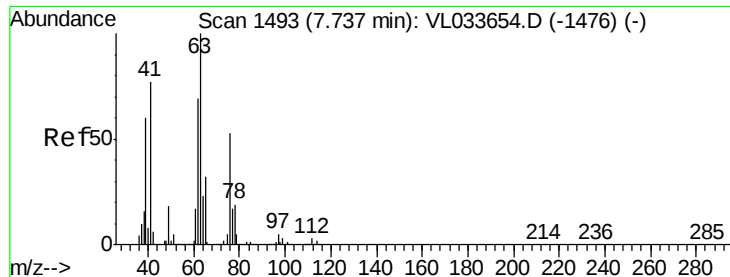
400000

200000

0

Time-->





#39

1,2-Dichloropropane

Concen: 9.901 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

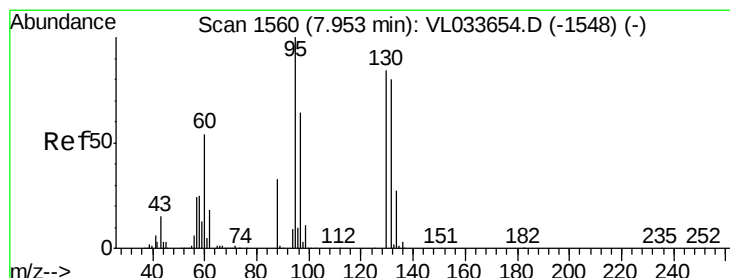
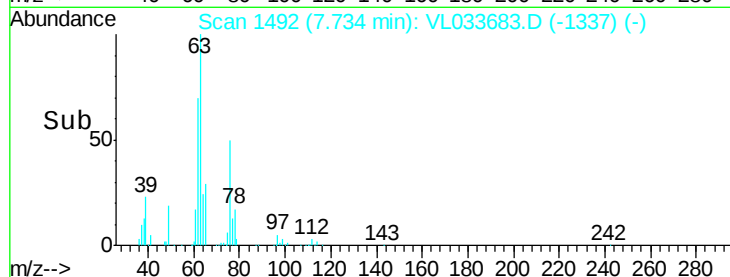
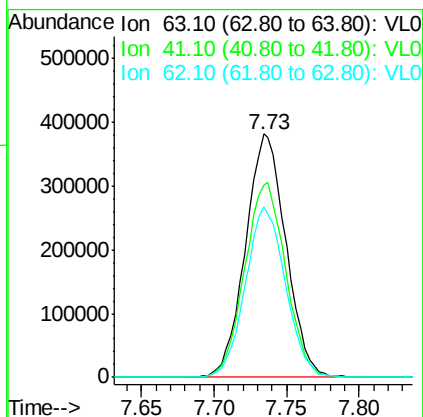
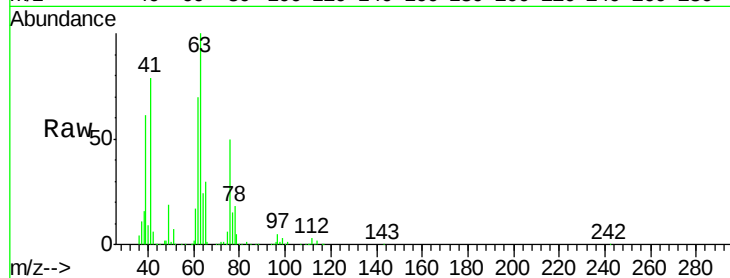
Tot Ion: 63 Resp: 740101

Ion Ratio Lower Upper

63 100

41 78.8 61.6 92.4

62 69.9 55.0 82.6



#40

1,4-Dioxane

Concen: 9.624 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Tgt Ion: 88 Resp: 287517

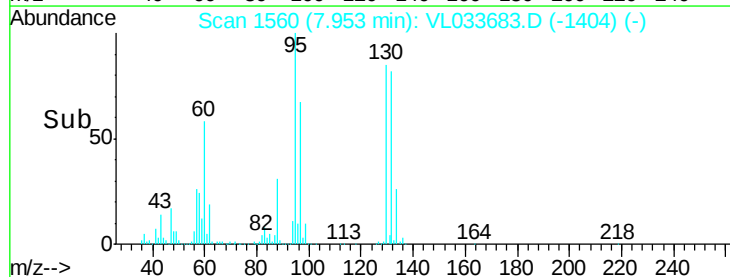
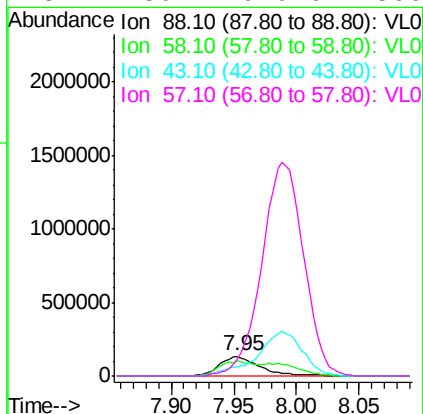
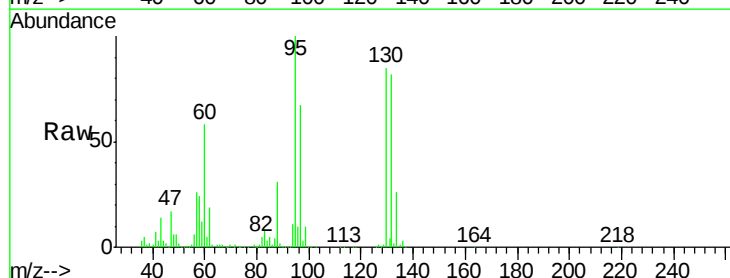
Ion Ratio Lower Upper

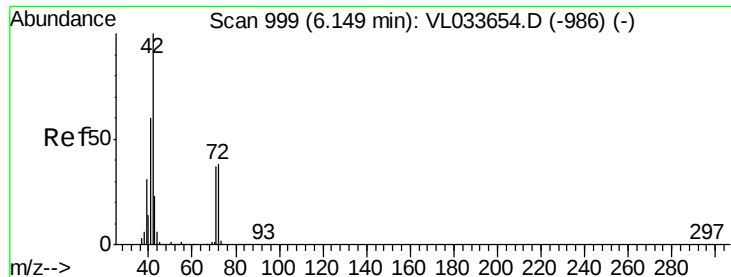
88 100

58 130.3 102.3 153.5

43 264.4 206.1 309.1

57 1180.7 910.6 1366.0





#41

Tetrahydrofuran

Concen: 10.725 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.01 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

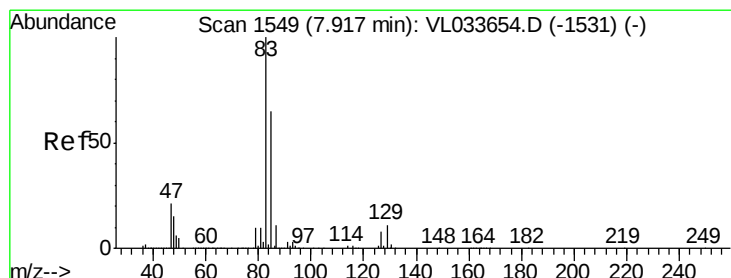
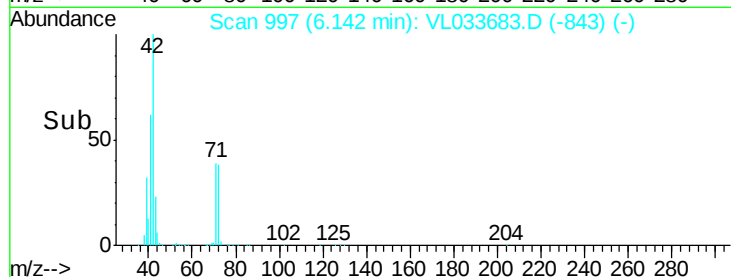
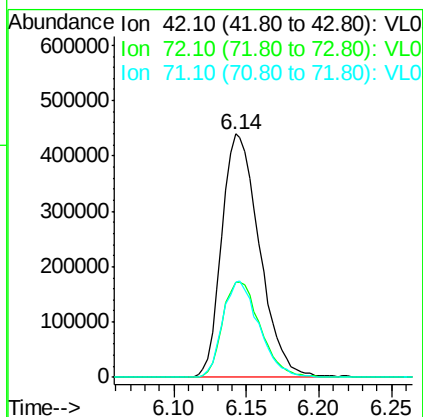
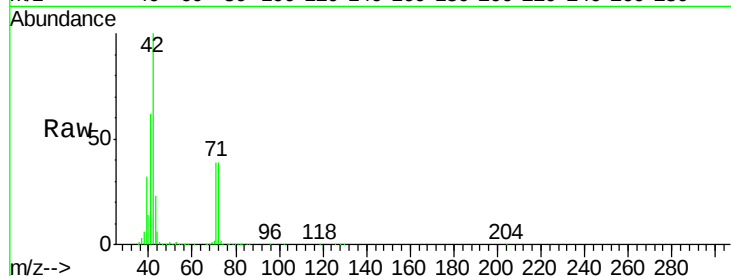
Tot Ion: 42 Resp: 793822

Ion Ratio Lower Upper

42 100

72 39.5 31.6 47.4

71 38.3 30.6 46.0



#42

Bromodichloromethane

Concen: 10.049 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

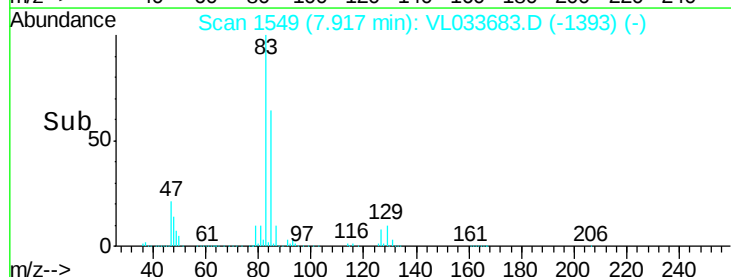
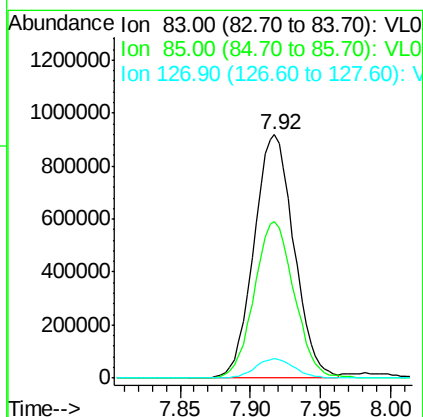
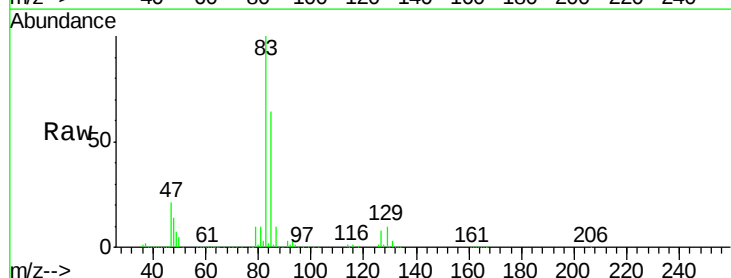
Tgt Ion: 83 Resp: 1815596

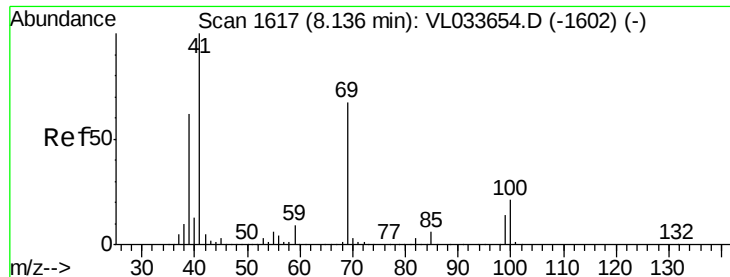
Ion Ratio Lower Upper

83 100

85 64.4 52.4 78.6

127 8.2 6.6 9.8

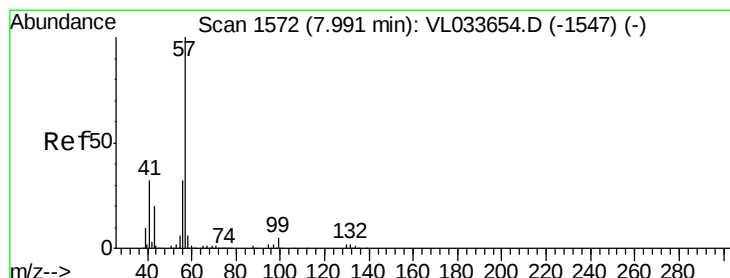
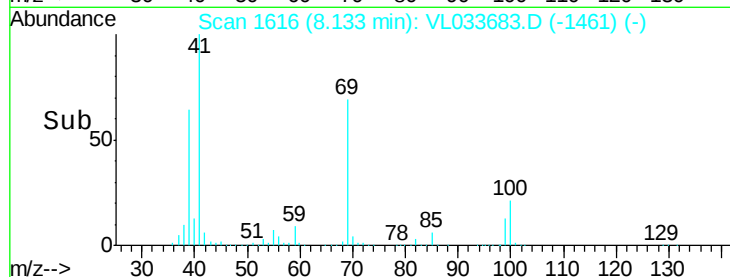
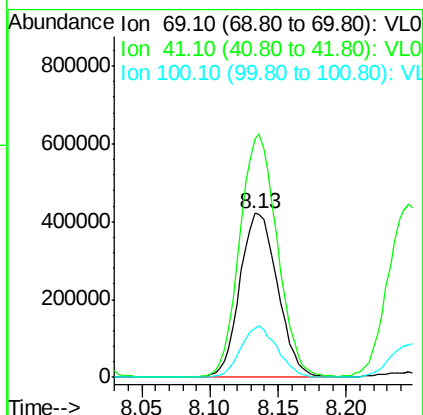
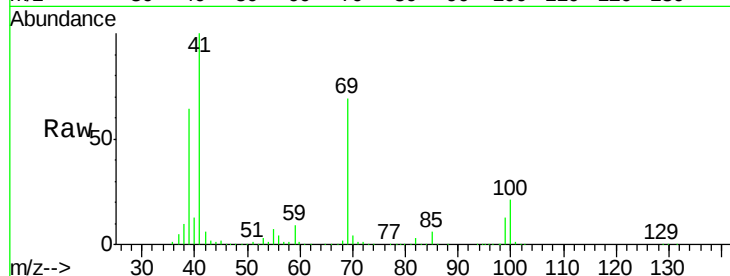




#43
Methvl Methacrilate
Concen: 10.757 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

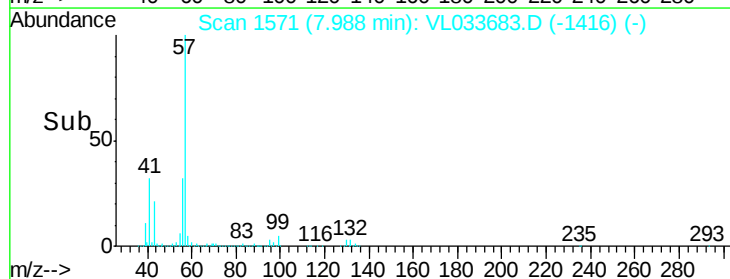
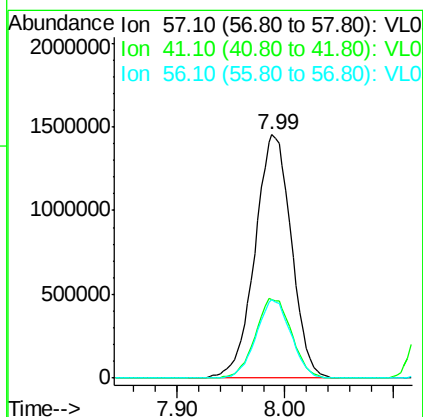
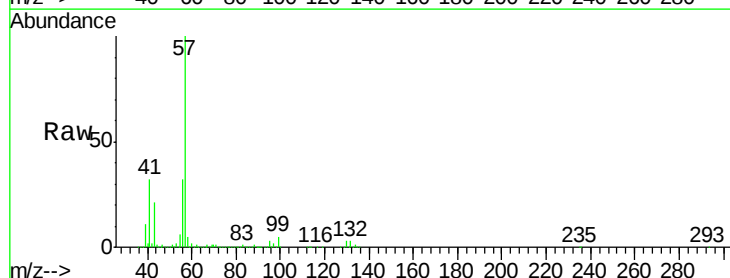
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

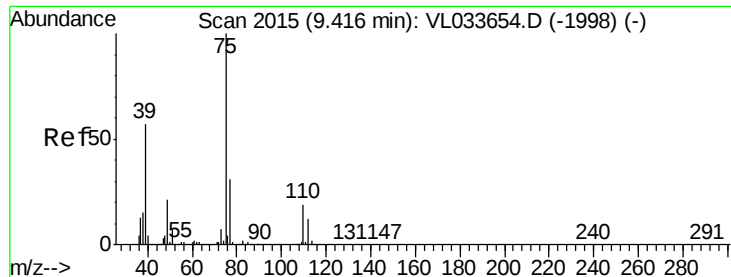
Tot Ion: 69 Resp: 811509
Ion Ratio Lower Upper
69 100
41 147.6 116.6 175.0
100 30.3 24.6 37.0



#44
2,2,4-Trimethylpentane
Concen: 9.892 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Tgt Ion: 57 Resp: 3392123
Ion Ratio Lower Upper
57 100
41 32.7 25.7 38.5
56 30.9 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 12.223 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

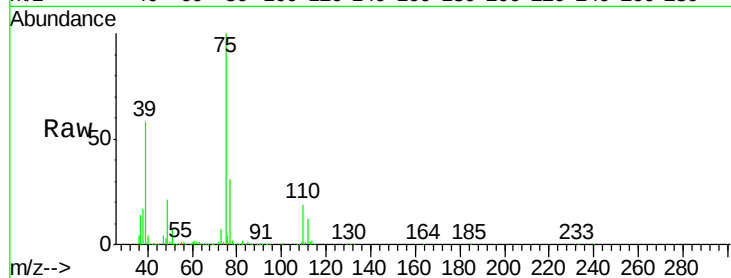
VSTDCCC010

Tot Ion: 75 Resp: 1131749

Ion Ratio Lower Upper

75 100

77 31.3 24.7 37.1



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.42

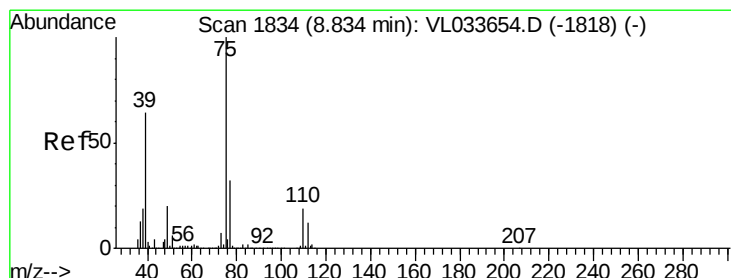
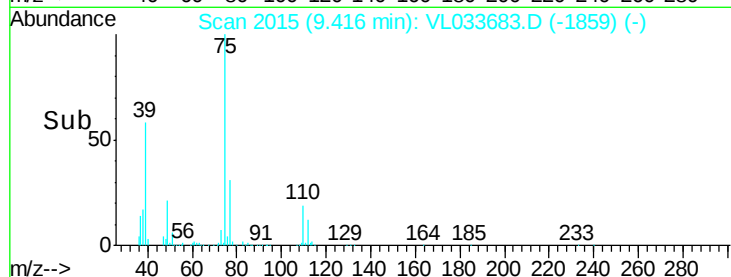
600000

400000

200000

0

Time--> 9.30 9.35 9.40 9.45 9.50



#46

cis-1,3-Dichloropropene

Concen: 10.897 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

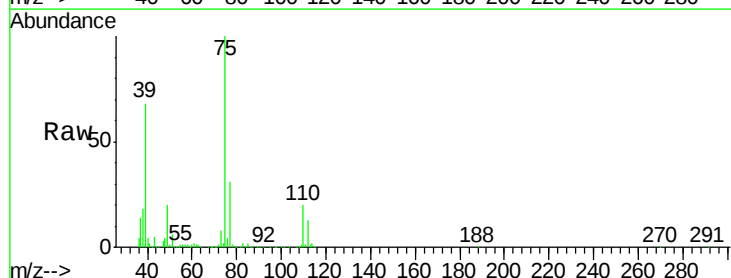
Tgt Ion: 75 Resp: 1259297

Ion Ratio Lower Upper

75 100

39 67.9 51.5 77.3

77 31.2 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.83

800000

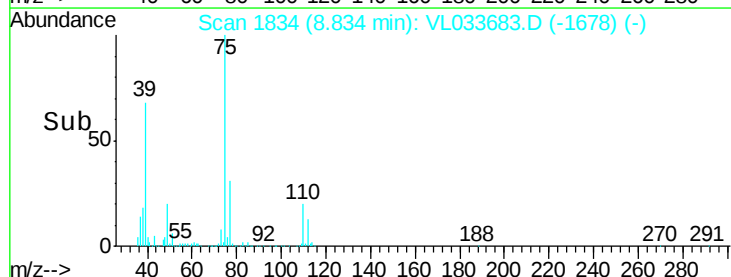
600000

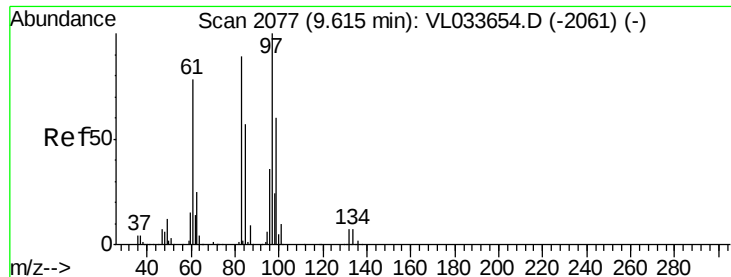
400000

200000

0

Time--> 8.75 8.80 8.85 8.90





#47

1,1,2-Trichloroethane

Concen: 9.974 ppbv

RT: 9.61 min Scan# 2077

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 856163

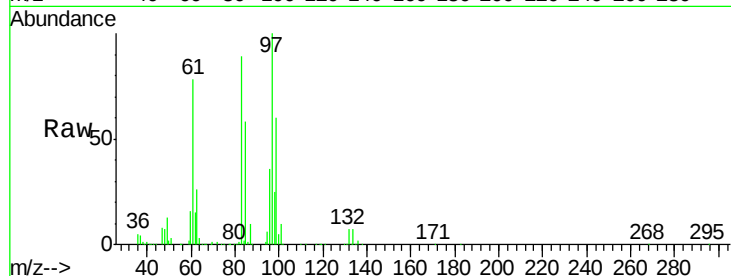
Ion Ratio Lower Upper

97 100

83 89.2 70.9 106.3

85 57.8 45.8 68.6

99 60.0 48.2 72.4



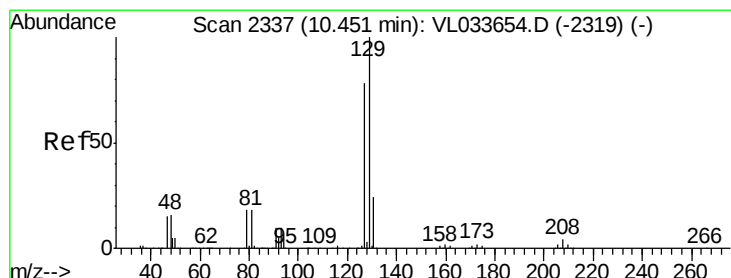
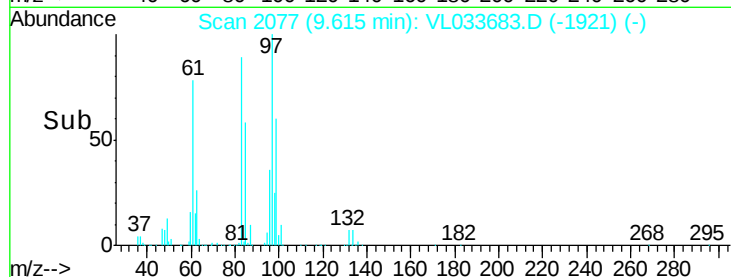
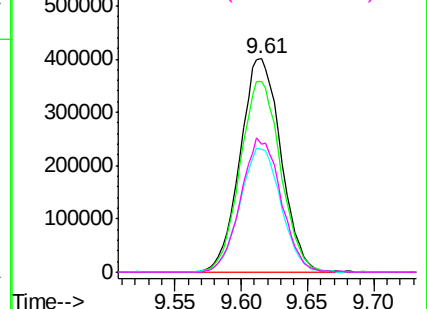
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.972 ppbv

RT: 10.45 min Scan# 2337

Delta R.T. 0.00 min

Lab File: VL033683.D

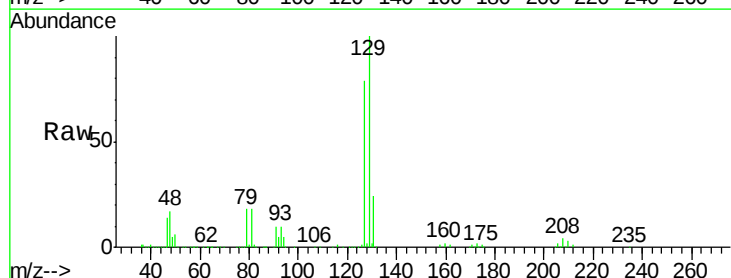
Acq: 7 May 2019 15:34

Tgt Ion: 129 Resp: 1596626

Ion Ratio Lower Upper

129 100

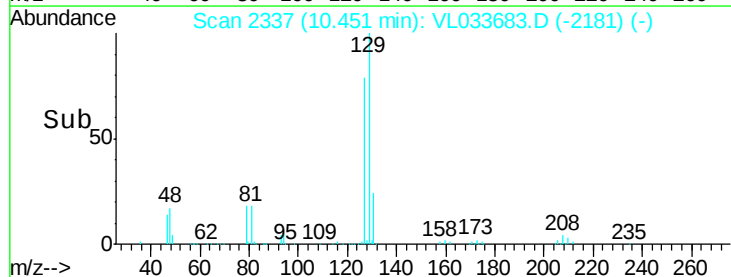
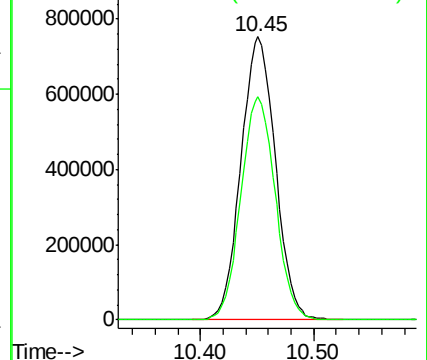
127 78.8 39.1 117.2

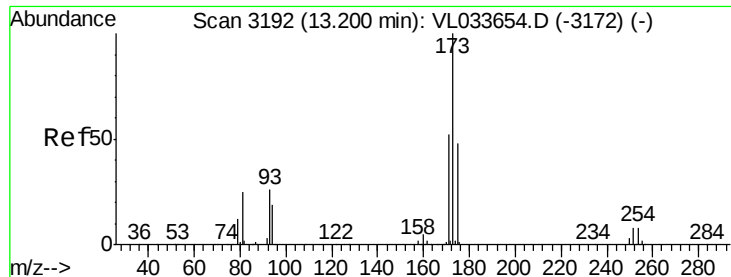


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.330 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

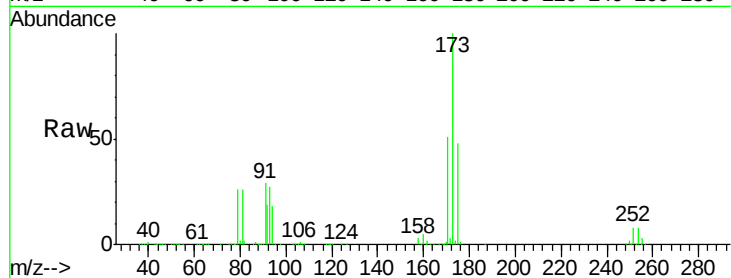
Tot Ion:173 Resp: 1432132

Ion Ratio Lower Upper

173 100

175 48.7 39.3 58.9

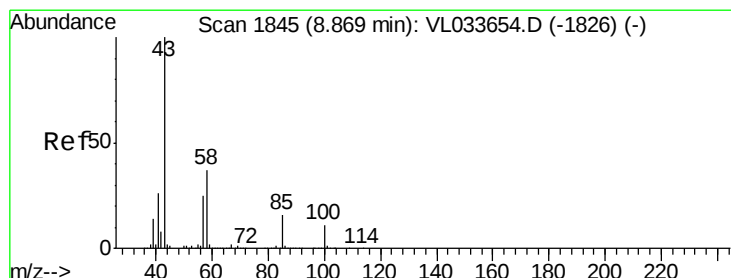
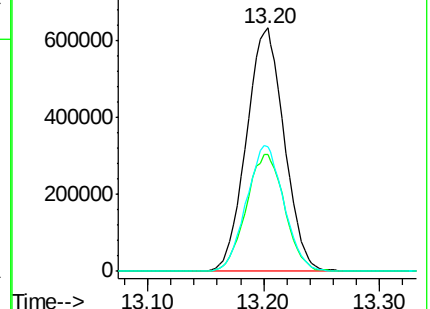
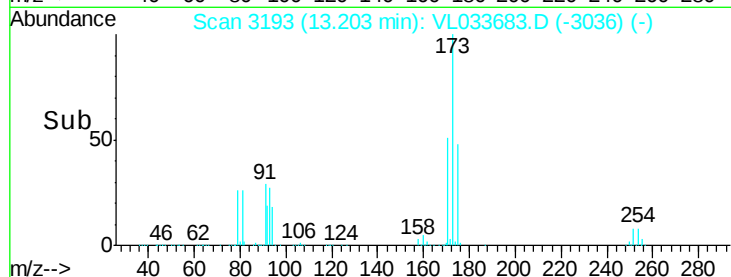
171 51.5 41.5 62.3



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: 10.179 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033683.D

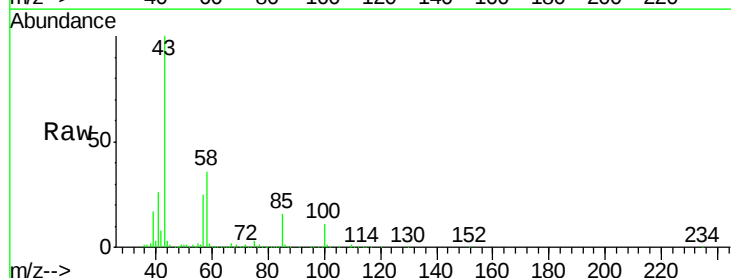
Acq: 7 May 2019 15:34

Tgt Ion: 43 Resp: 2207658

Ion Ratio Lower Upper

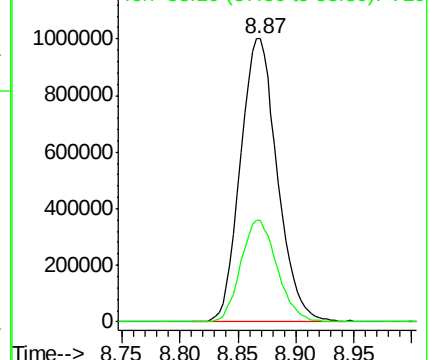
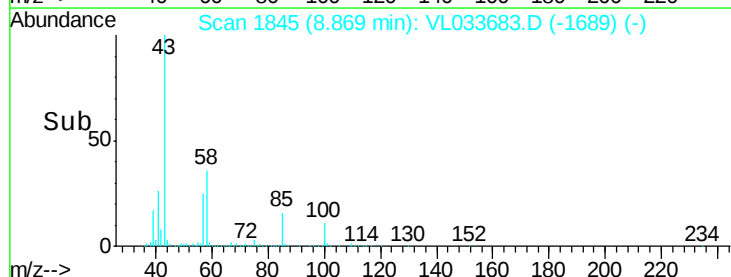
43 100

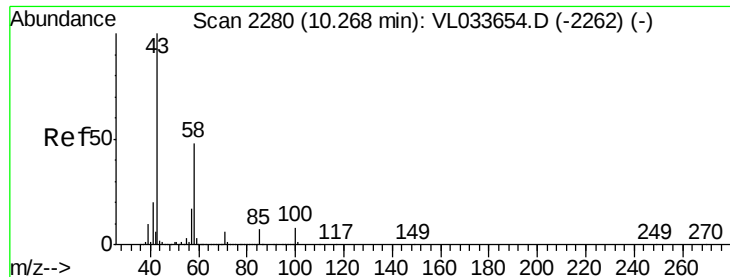
58 35.4 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.026 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

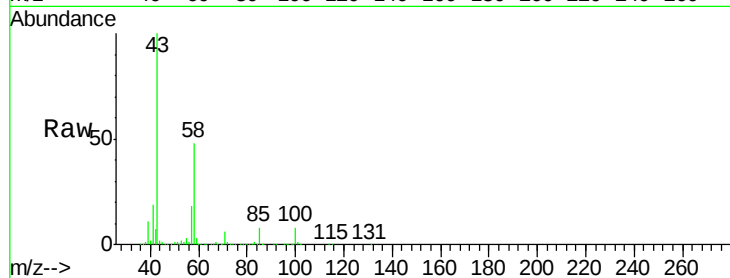
ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1852609

Ion Ratio Lower Upper

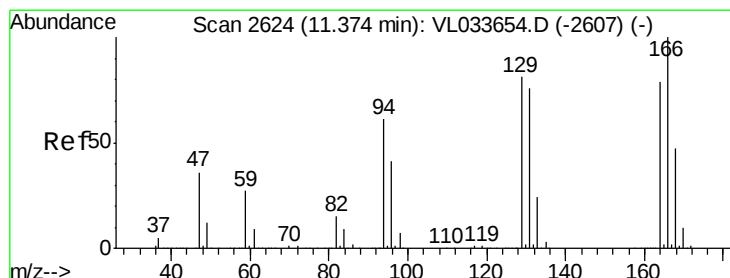
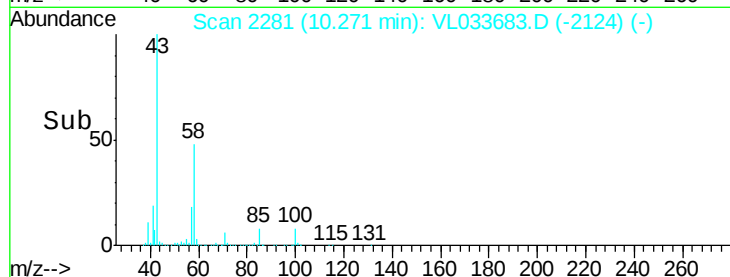
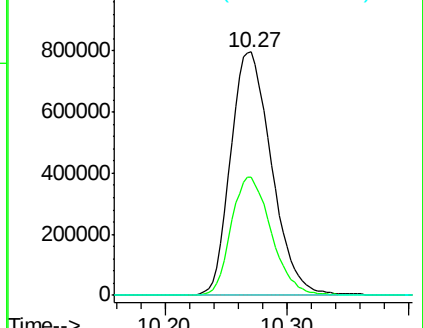
43	100		
58	47.8	38.2	57.4
98	0.4	0.2	0.4#



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: 11.003 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

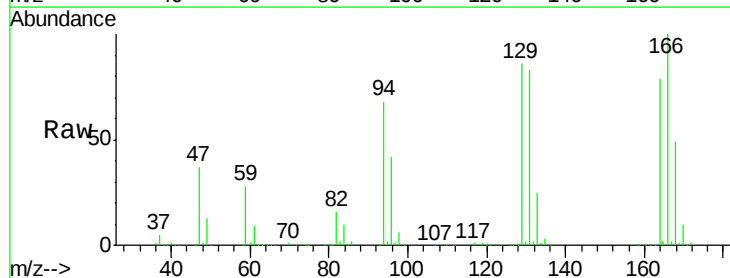
Lab File: VL033683.D

Acq: 7 May 2019 15:34

Tgt Ion: 164 Resp: 781798

Ion Ratio Lower Upper

164	100		
166	126.3	100.6	151.0
129	108.3	81.0	121.6
131	104.8	76.4	114.6

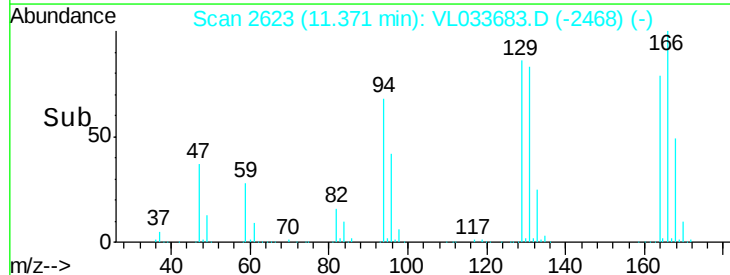
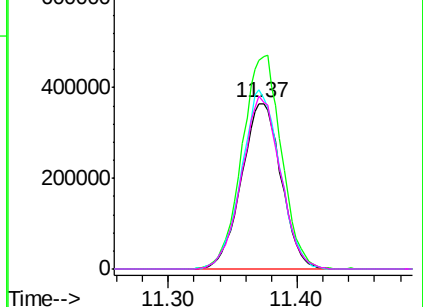


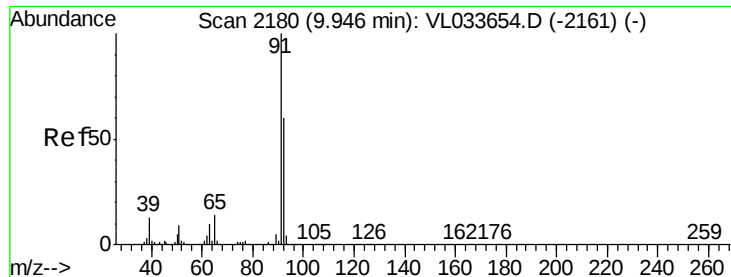
Abundance Ion 163.90 (163.60 to 164.60): V

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: 11.029 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

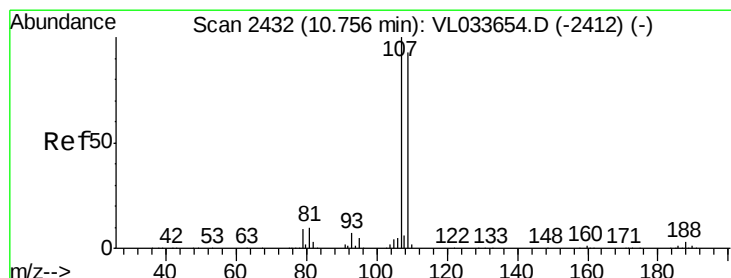
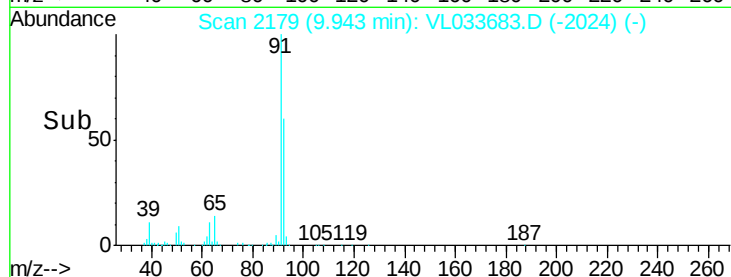
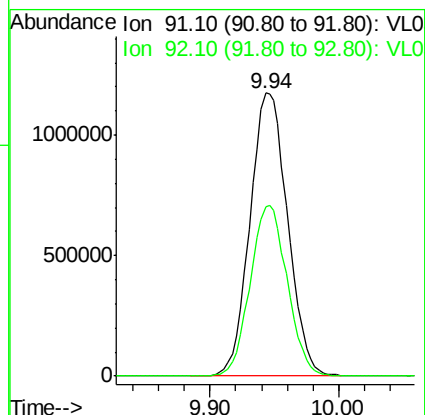
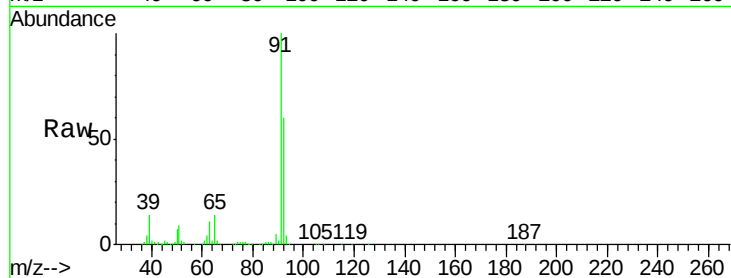
VSTDCCC010

Tot Ion: 91 Resp: 2389992

Ion Ratio Lower Upper

91 100

92 59.5 47.7 71.5



#54

1,2-Dibromoethane

Concen: 10.565 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033683.D

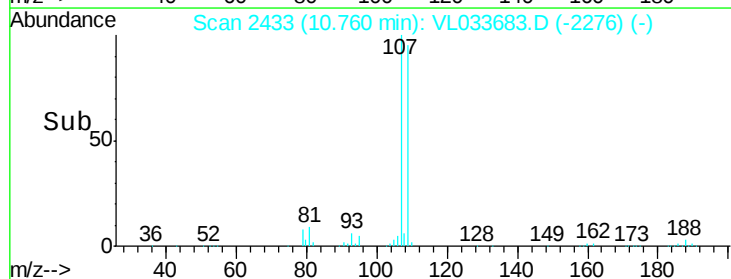
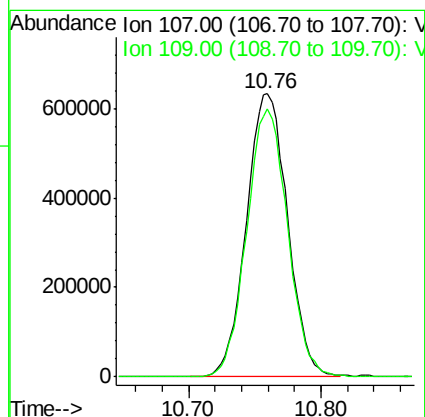
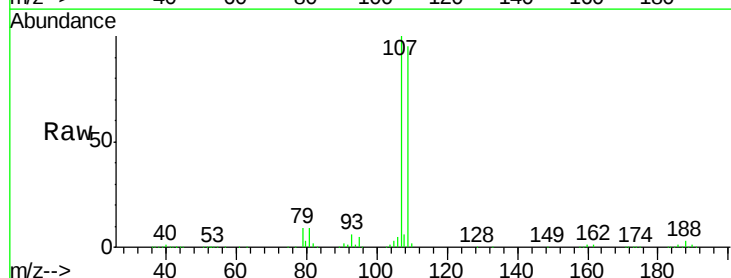
Acq: 7 May 2019 15:34

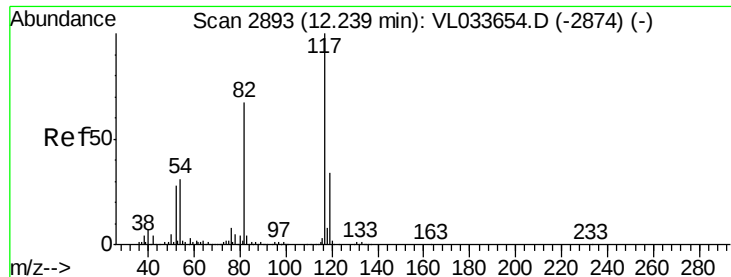
Tgt Ion: 107 Resp: 1366072

Ion Ratio Lower Upper

107 100

109 94.6 74.6 111.8

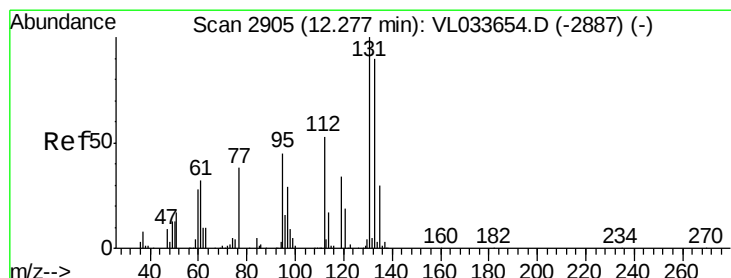
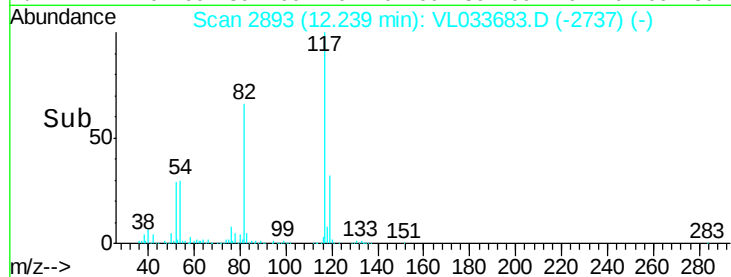
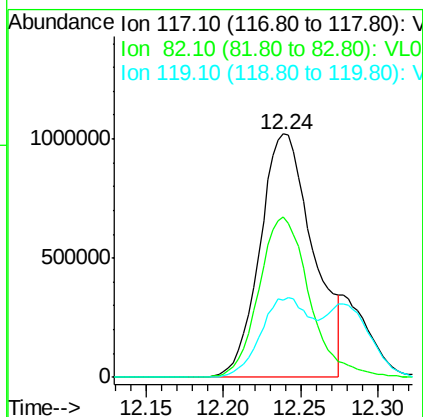
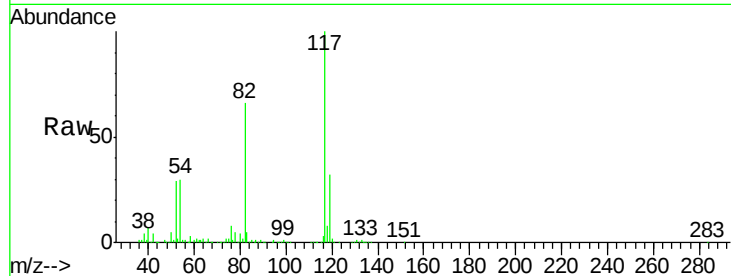




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

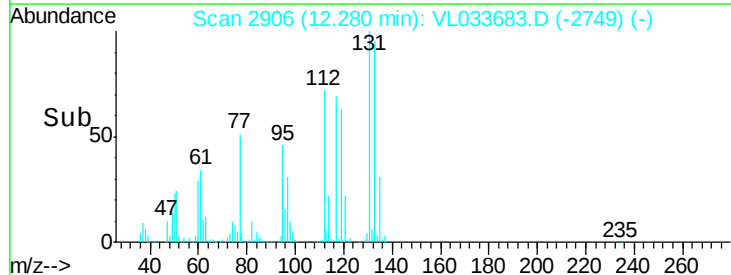
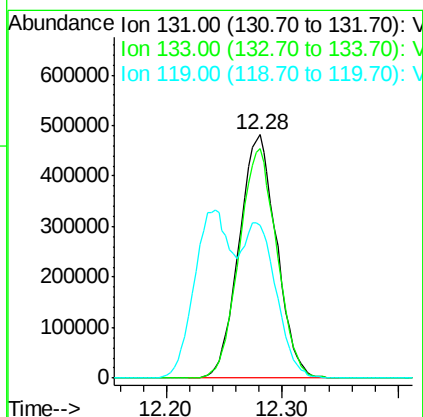
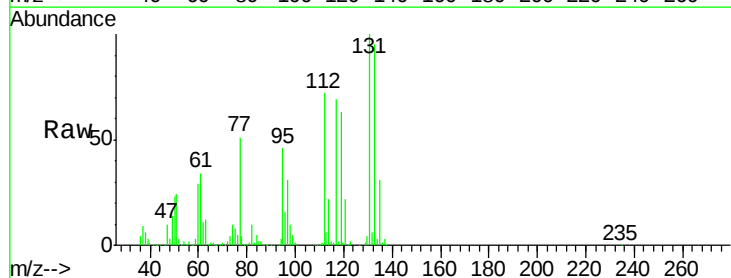
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

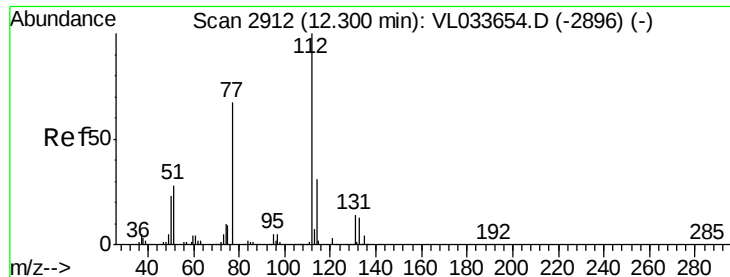
Tot Ion:117 Resp: 2443910
Ion Ratio Lower Upper
117 100
82 63.1 49.7 74.5
119 32.8 24.8 37.2



#56
1,1,1,2-Tetrachloroethane
Concen: 9.570 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Tgt Ion:131 Resp: 1078823
Ion Ratio Lower Upper
131 100
133 95.2 76.0 114.0
119 61.8 45.4 68.2

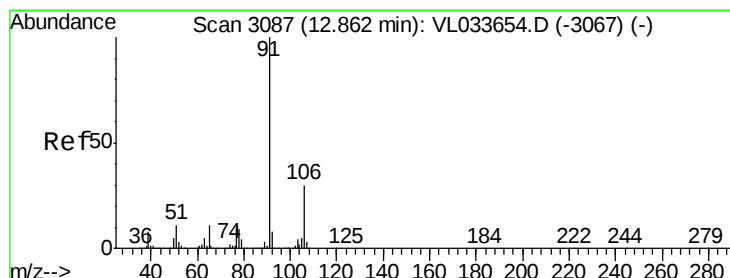
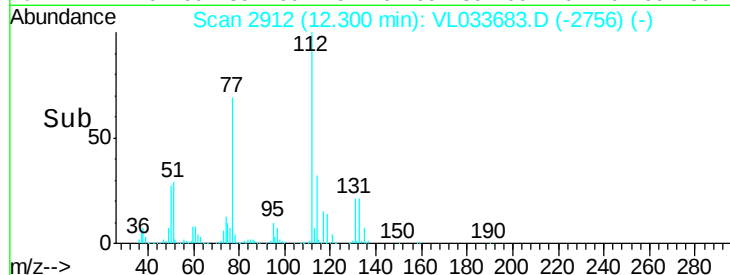
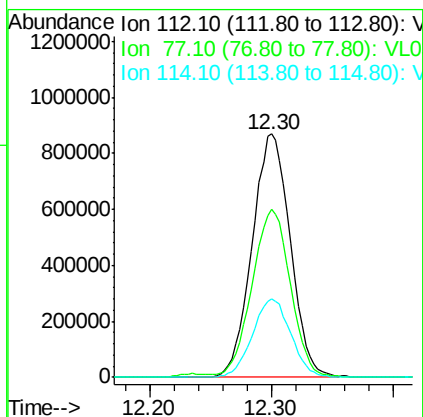
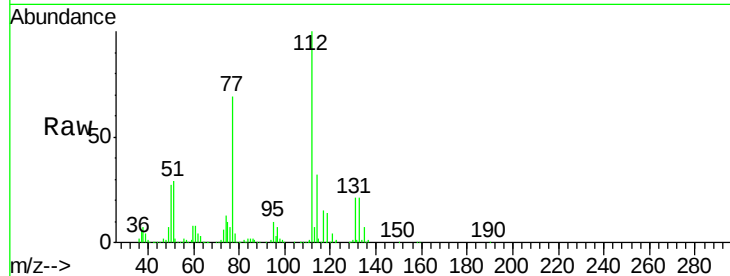




#57
Chlorobenzene
Concen: 9.365 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

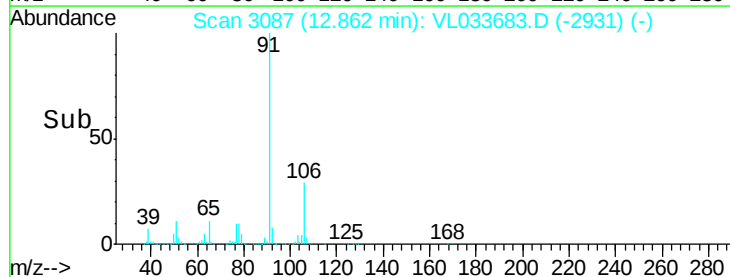
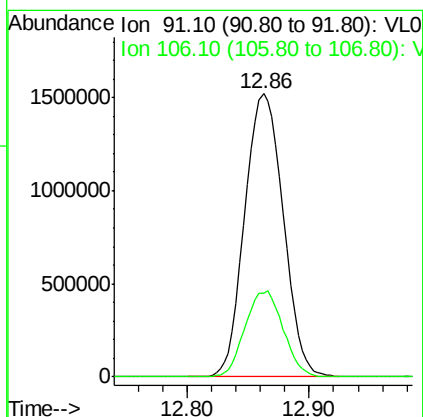
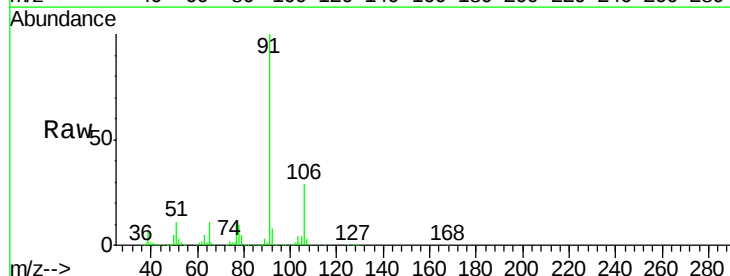
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

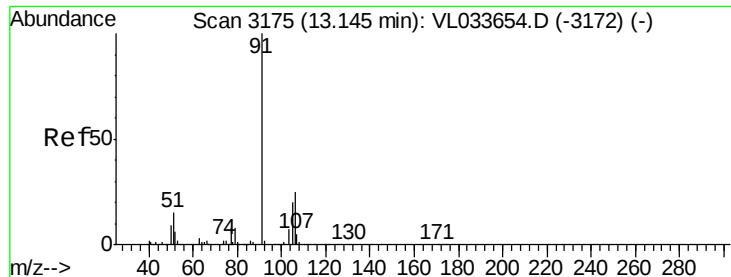
Tot Ion:112 Resp: 1879247
Ion Ratio Lower Upper
112 100
77 68.4 54.4 81.6
114 32.2 28.2 34.4



#58
Ethyl Benzene
Concen: 10.424 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Tgt Ion: 91 Resp: 3322074
Ion Ratio Lower Upper
91 100
106 29.4 23.7 35.5





#59

m/p-Xylene

Concen: 19.997 ppbv m

RT: 13.15 min Scan# 3176

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

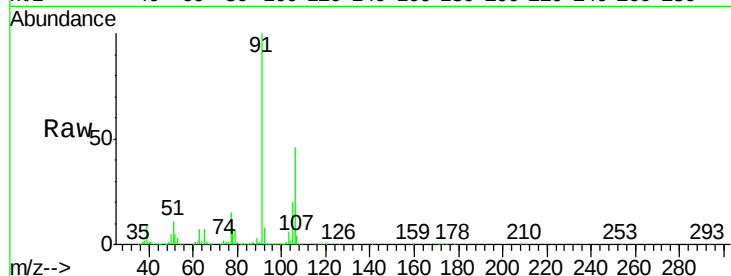
VSTDCCC010

Tot Ion: 91 Resp: 5613547

Ion Ratio Lower Upper

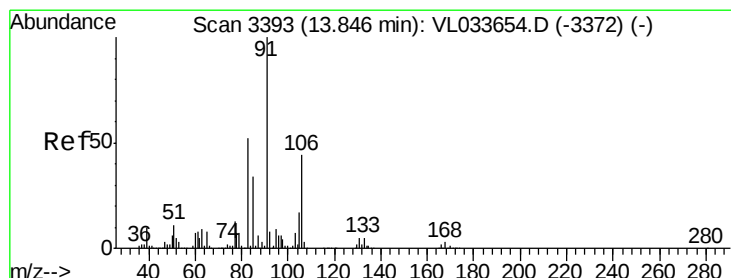
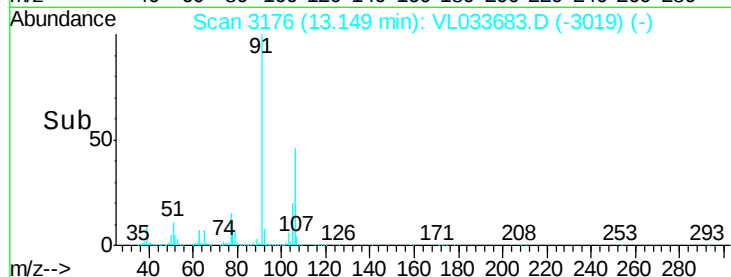
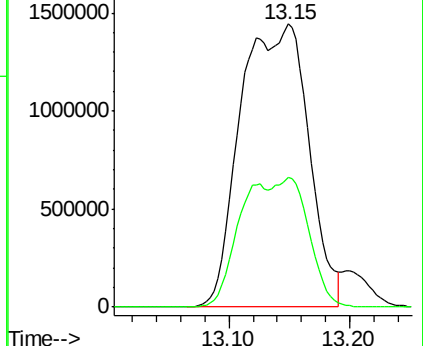
91 100

106 45.3 36.2 54.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.932 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. 0.00 min

Lab File: VL033683.D

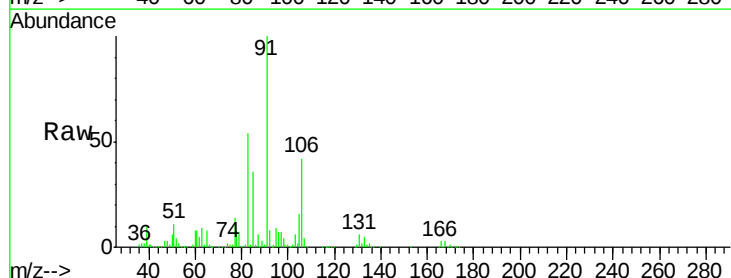
Acq: 7 May 2019 15:34

Tgt Ion: 91 Resp: 2821548

Ion Ratio Lower Upper

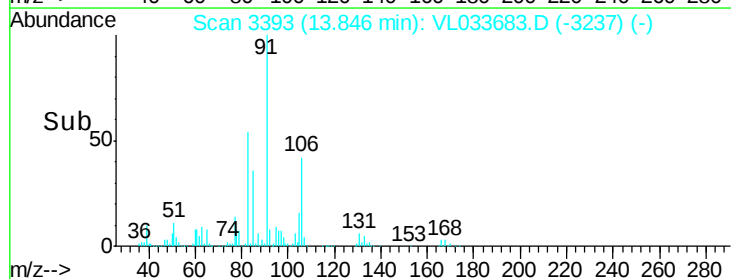
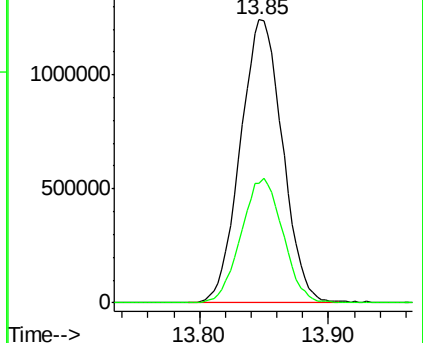
91 100

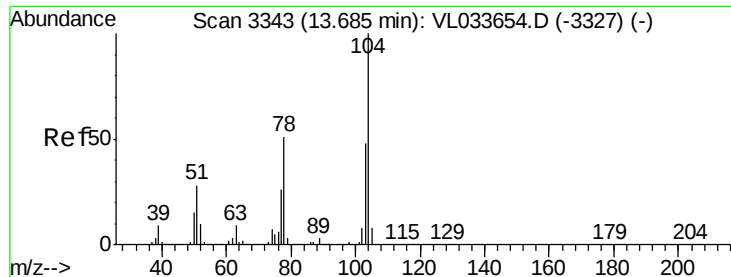
106 43.9 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 11.201 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

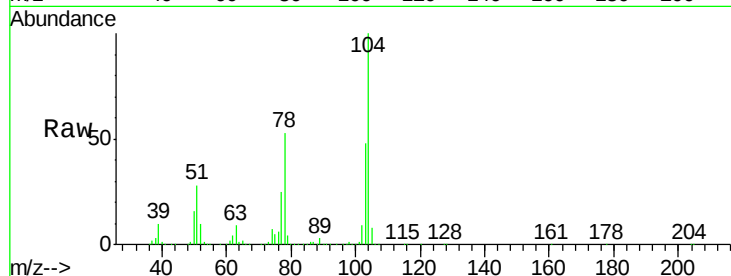
Tot Ion:104 Resp: 2118810

Ion Ratio Lower Upper

104 100

78 53.9 43.0 64.6

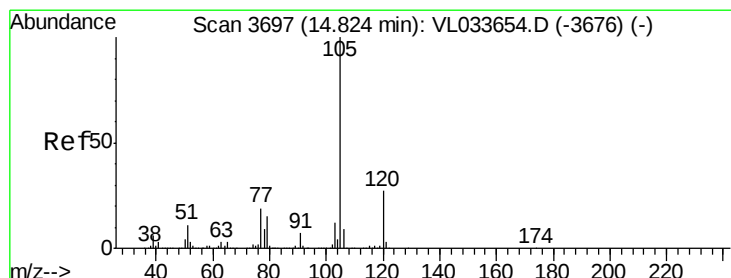
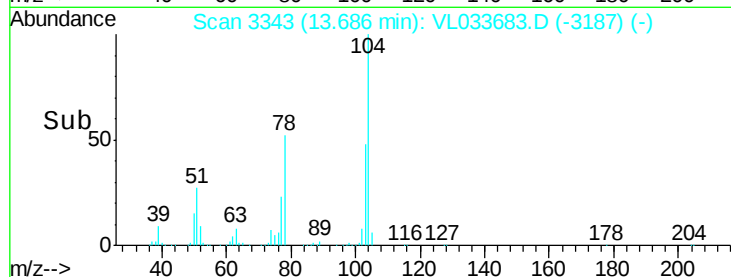
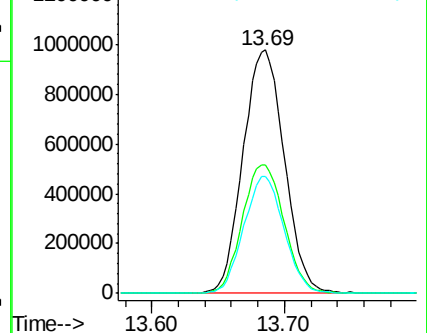
103 46.8 38.1 57.1



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: 9.878 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VL033683.D

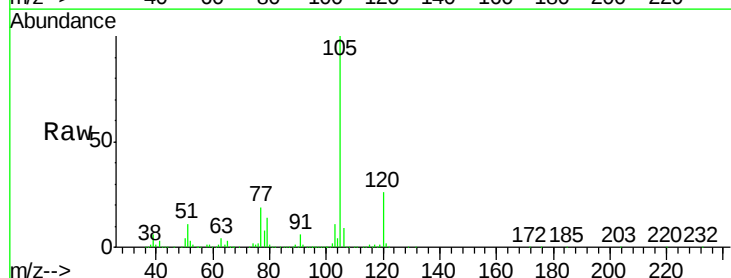
Acq: 7 May 2019 15:34

Tgt Ion:105 Resp: 3831602

Ion Ratio Lower Upper

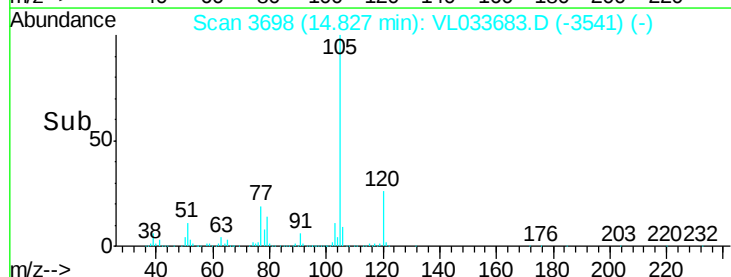
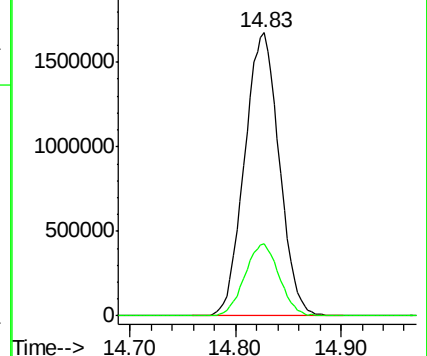
105 100

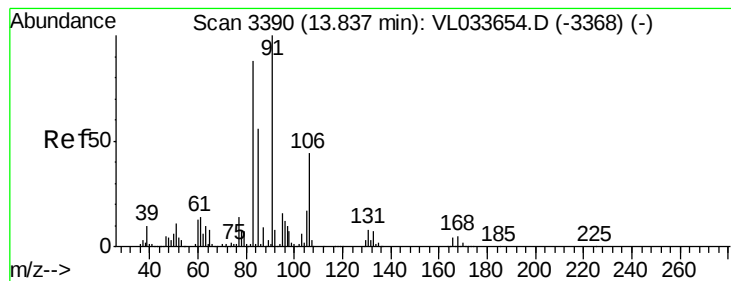
120 25.3 20.5 30.7



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: 9.495 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

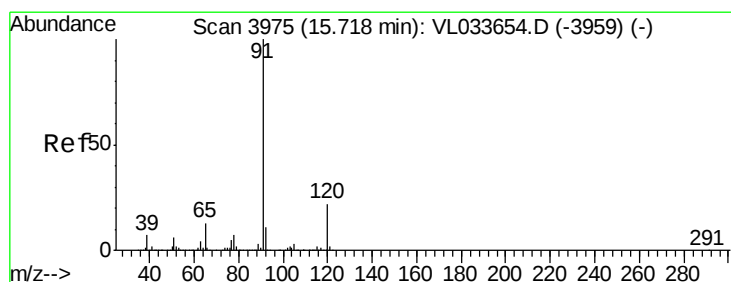
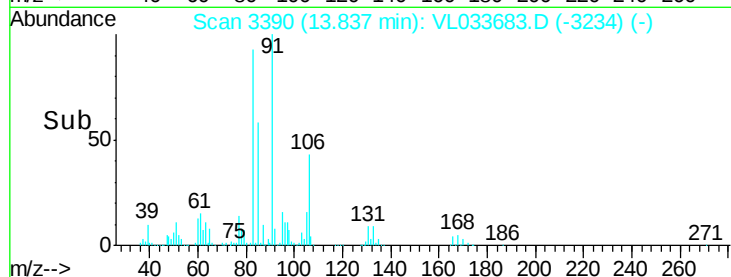
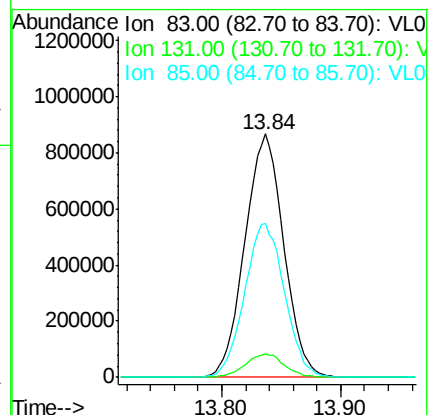
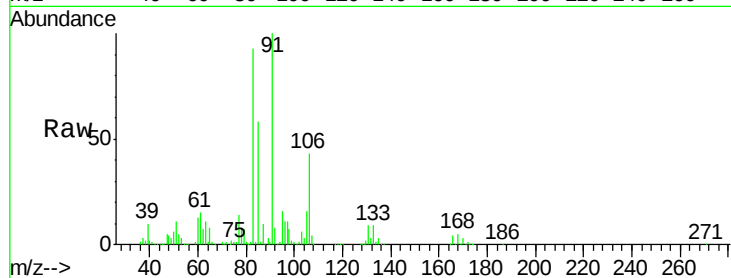
Tot Ion: 83 Resp: 1963046

Ion Ratio Lower Upper

83 100

131 9.7 4.8 14.3

85 64.7 32.5 97.4



#64

n-propylbenzene

Concen: 9.956 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. 0.00 min

Lab File: VL033683.D

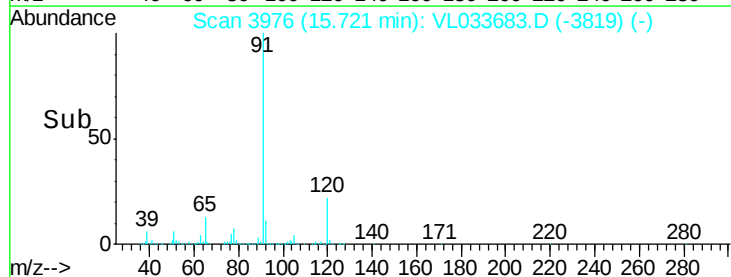
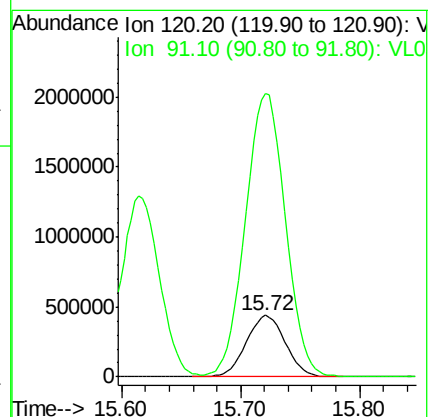
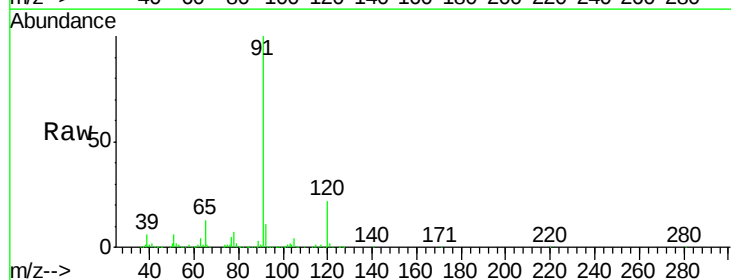
Acq: 7 May 2019 15:34

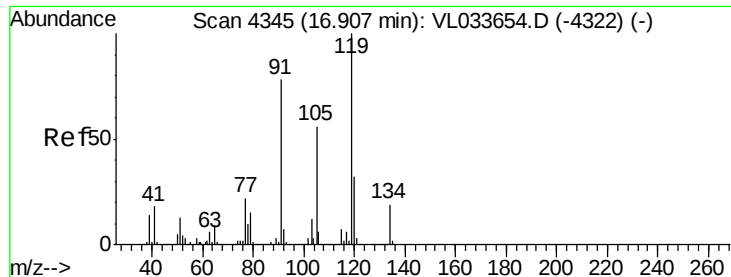
Tgt Ion: 120 Resp: 998023

Ion Ratio Lower Upper

120 100

91 474.6 379.0 568.6





#65

tert-Butylbenzene

Concen: 9.922 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

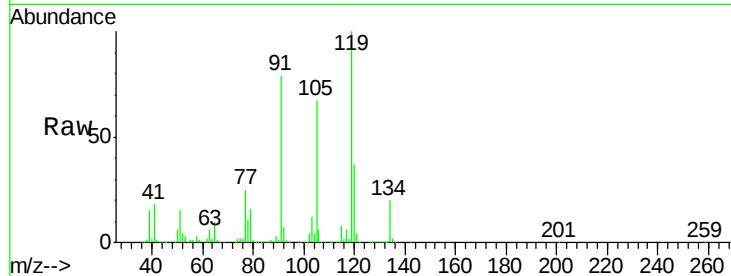
Tot Ion:119 Resp: 3530405

Ion Ratio Lower Upper

119 100

91 82.6 65.9 98.9

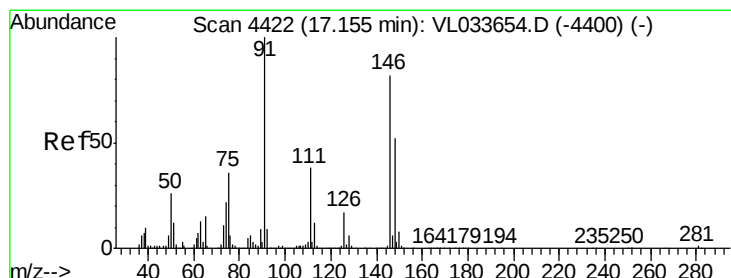
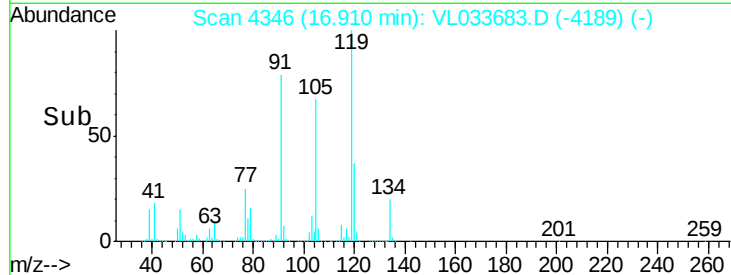
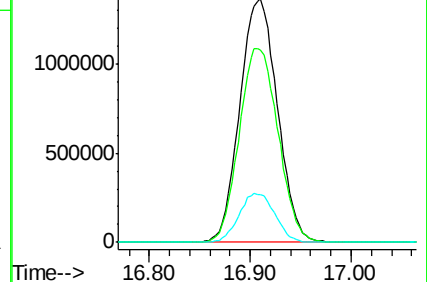
134 19.3 15.5 23.3



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: 12.495 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

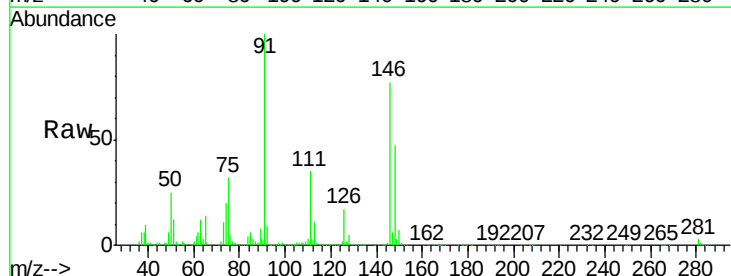
Tgt Ion: 91 Resp: 2022612

Ion Ratio Lower Upper

91 100

126 16.7 13.4 20.2

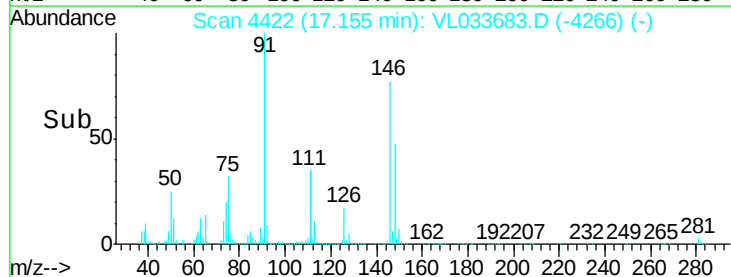
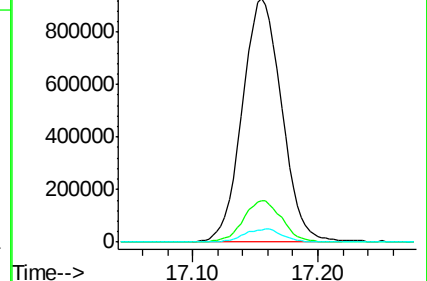
128 5.4 4.4 6.6

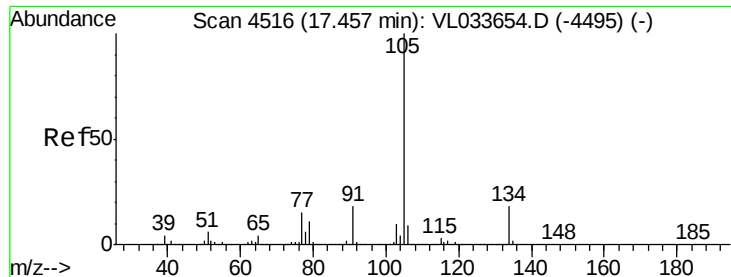


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

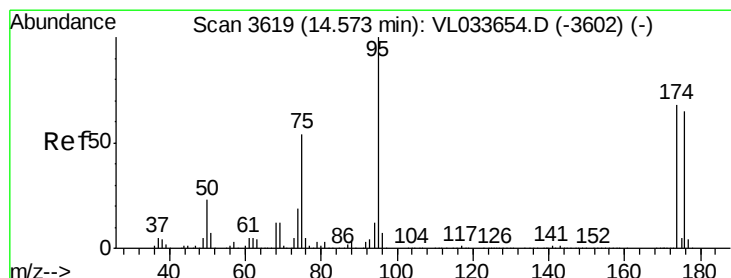
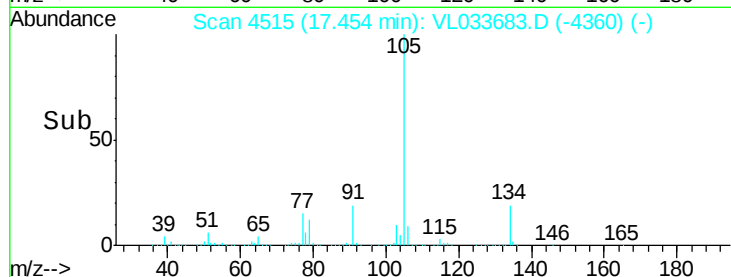
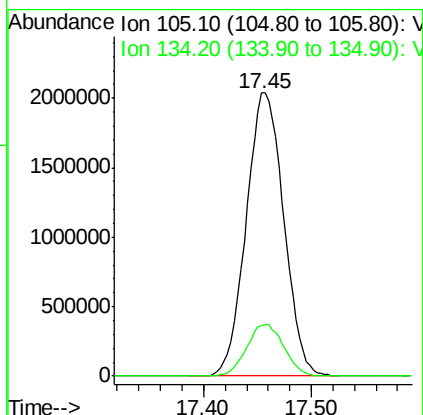
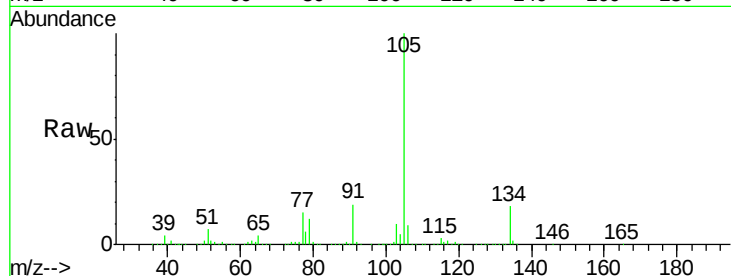




#67
 sec-Butylbenzene
 Concen: 9.916 ppbv
 RT: 17.45 min Scan# 4515
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

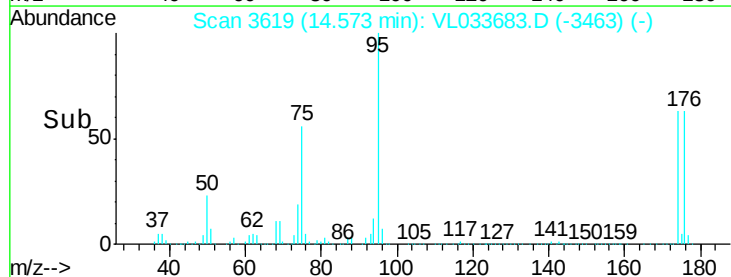
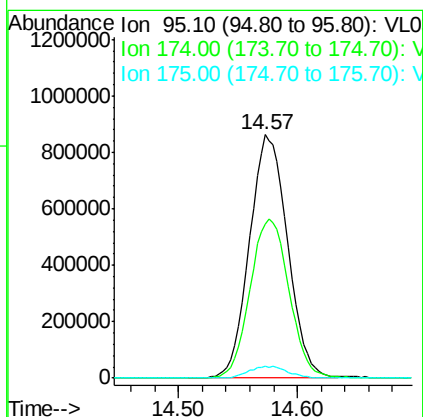
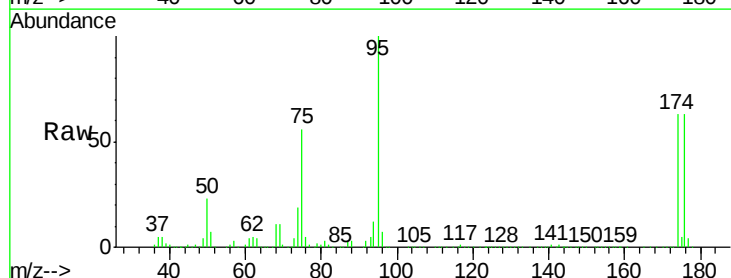
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

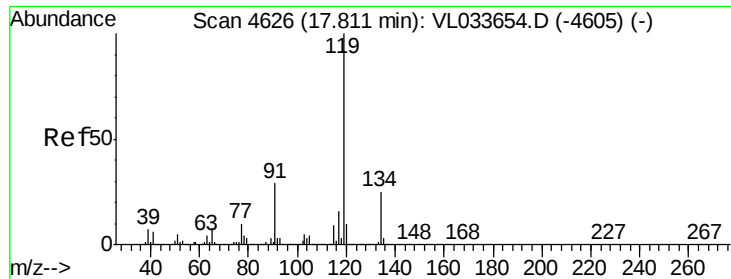
Tot Ion: 105 Resp: 4922714
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 22.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.535 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

Tgt Ion: 95 Resp: 1910169
 Ion Ratio Lower Upper
 95 100
 174 67.4 54.0 81.0
 175 4.9 3.8 5.8

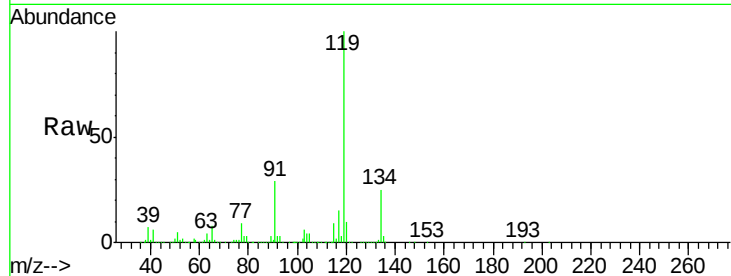




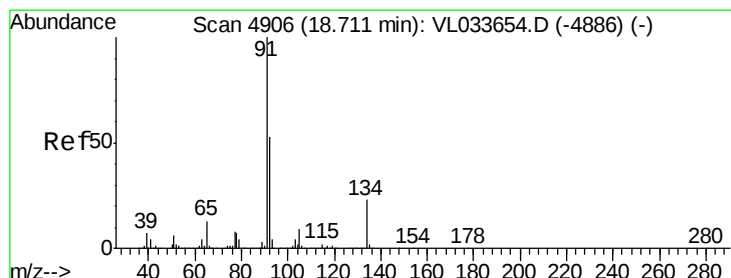
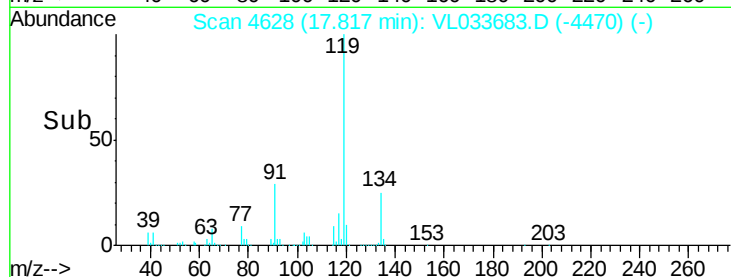
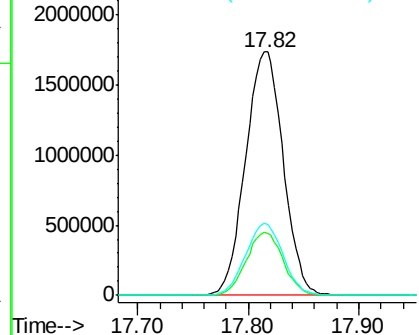
#69
p-Isopropyltoluene
Concen: 10.055 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. 0.01 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:119 Resp: 4113118
Ion Ratio Lower Upper
119 100
134 25.4 20.2 30.2
91 29.4 23.4 35.2

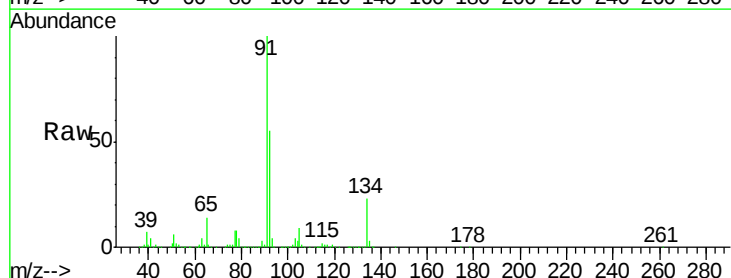


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

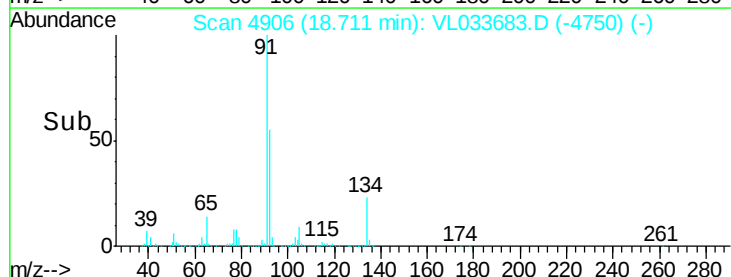
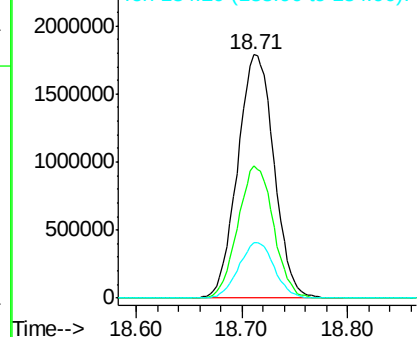


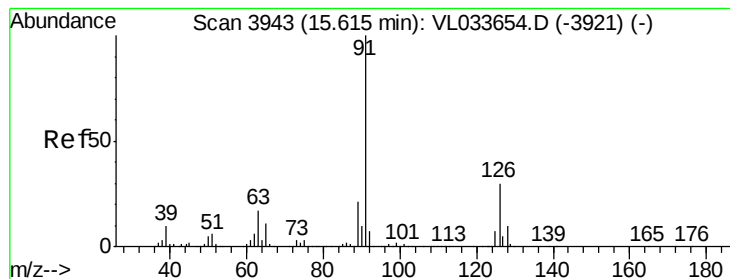
#70
n-Butylbenzene
Concen: 9.843 ppbv
RT: 18.71 min Scan# 4906
Delta R.T. 0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Tgt Ion: 91 Resp: 4269747
Ion Ratio Lower Upper
91 100
92 53.4 42.5 63.7
134 22.5 18.0 27.0



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: 10.199 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

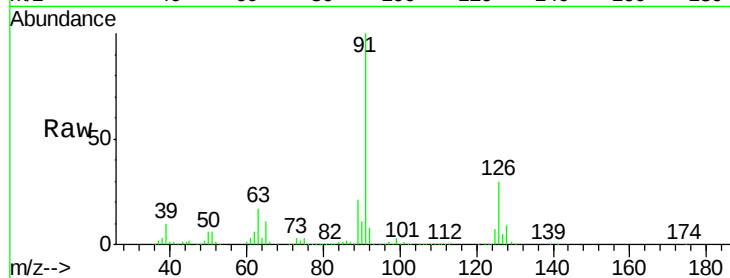
VSTDCCC010

Tot Ion: 91 Resp: 2922907

Ion Ratio Lower Upper

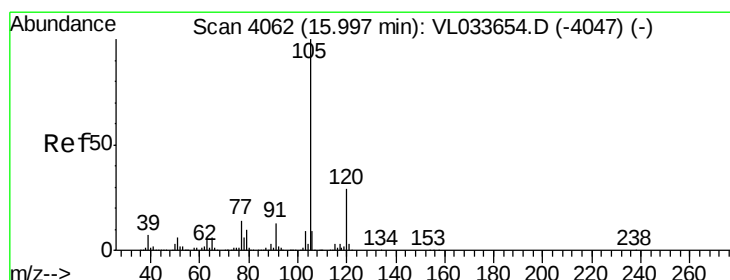
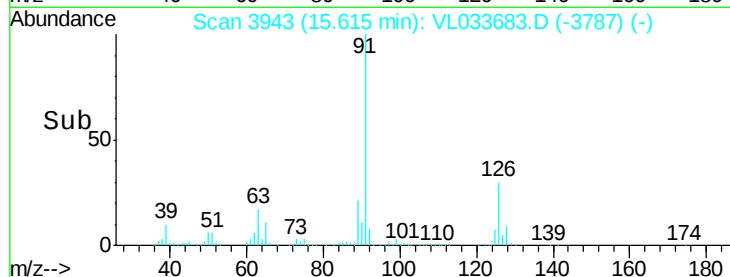
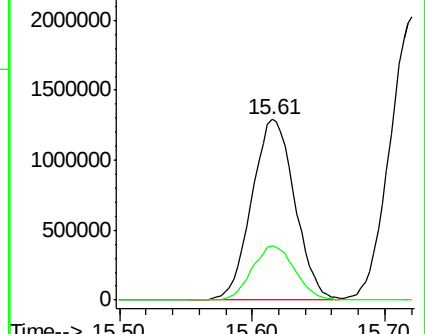
91 100

126 29.9 12.0 47.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.975 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Tgt Ion:105 Resp: 3330948

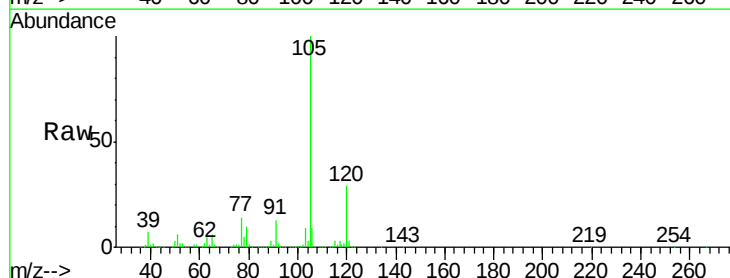
Ion Ratio Lower Upper

105 100

120 28.8 23.0 34.6

91 13.8 10.5 15.7

77 13.9 11.4 17.2

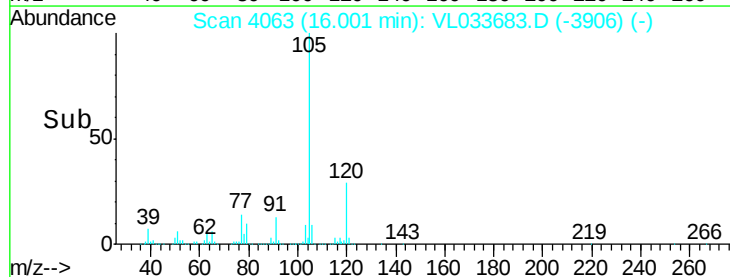
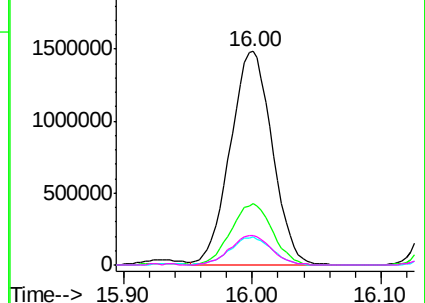


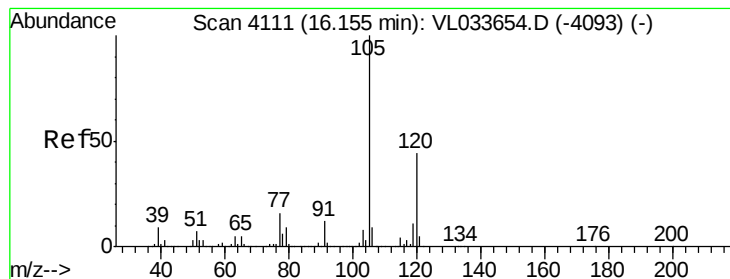
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 9.888 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

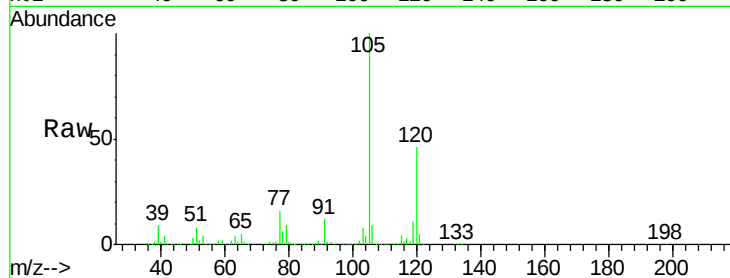
VSTDCCC010

Tot Ion:105 Resp: 3192388

Ion Ratio Lower Upper

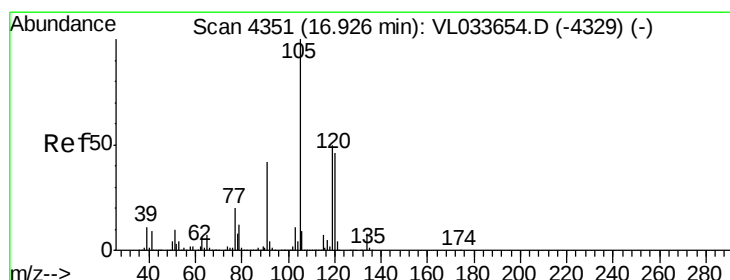
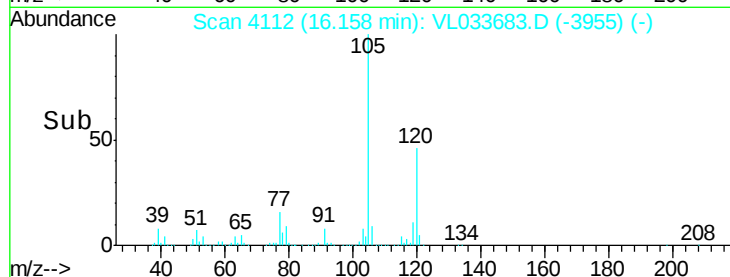
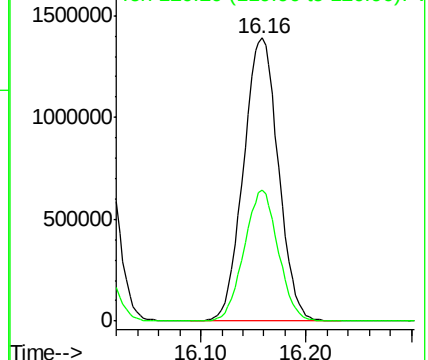
105 100

120 46.3 35.5 53.3



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: 9.388 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Tgt Ion:105 Resp: 3369423

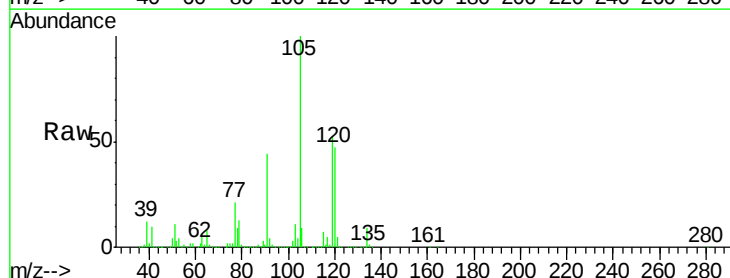
Ion Ratio Lower Upper

105 100

120 47.1 36.5 54.7

91 44.1 33.7 50.5

77 20.7 16.3 24.5

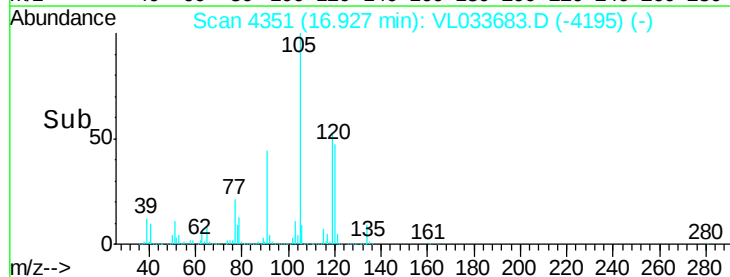
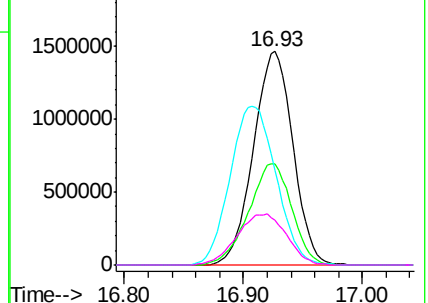


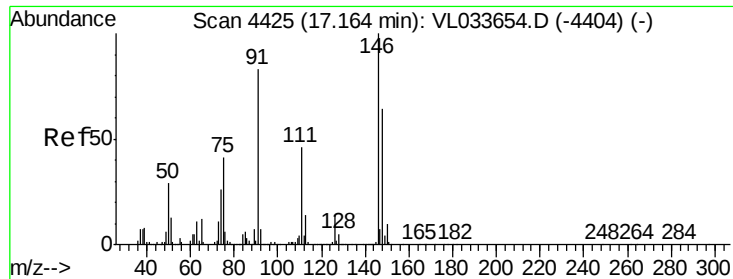
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.144 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

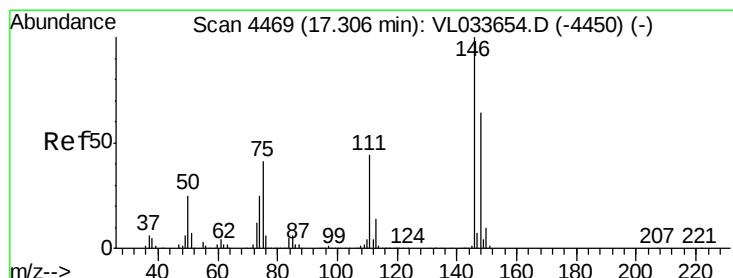
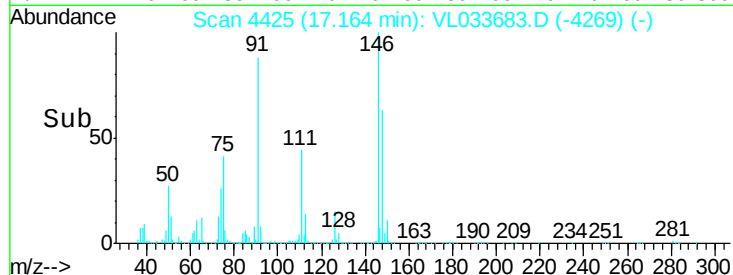
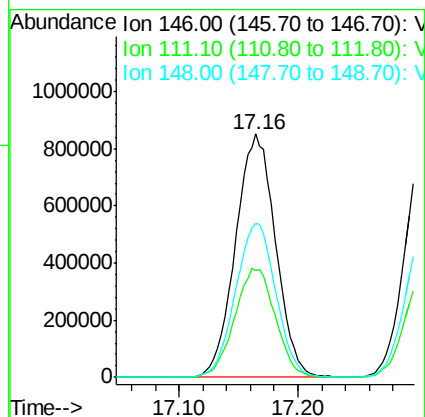
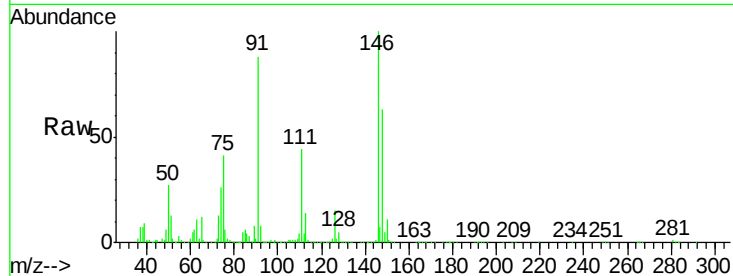
Tot Ion:146 Resp: 1982208

Ion Ratio Lower Upper

146 100

111 45.5 22.6 67.7

148 63.8 31.8 95.4



#76

1,4-Dichlorobenzene

Concen: 9.577 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

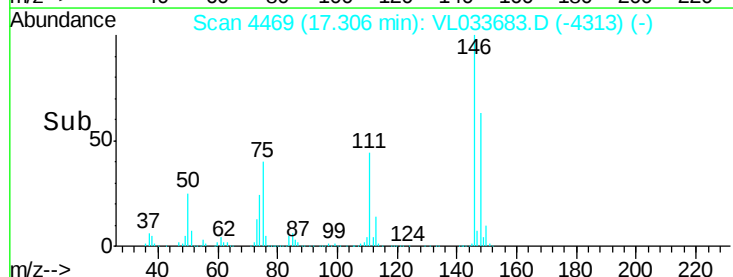
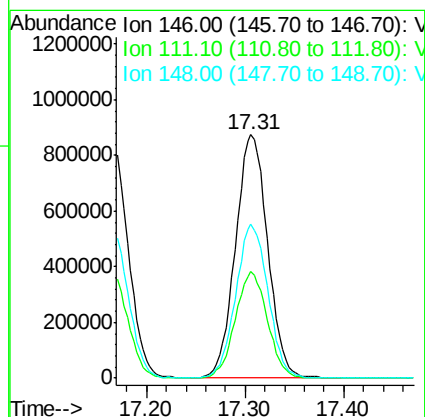
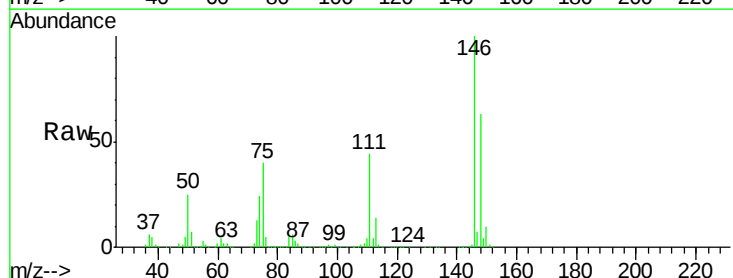
Tgt Ion:146 Resp: 1970103

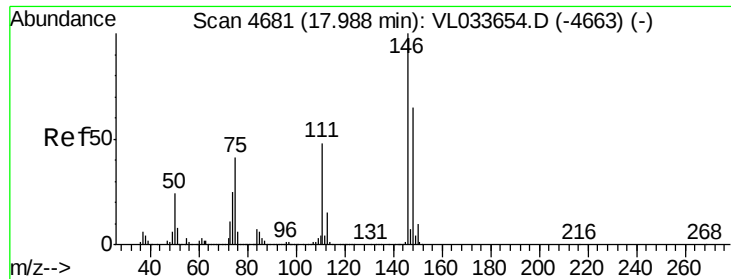
Ion Ratio Lower Upper

146 100

111 43.8 22.0 66.0

148 63.2 32.1 96.5

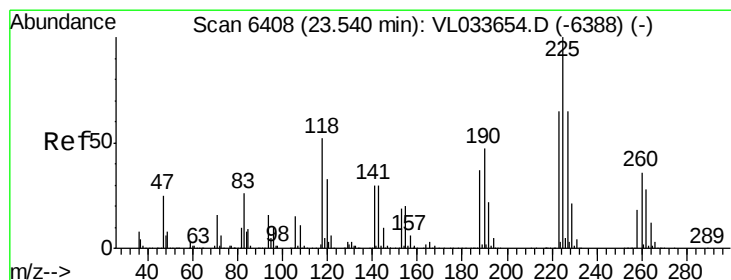
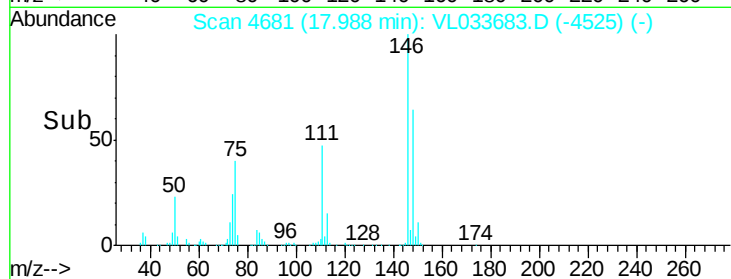
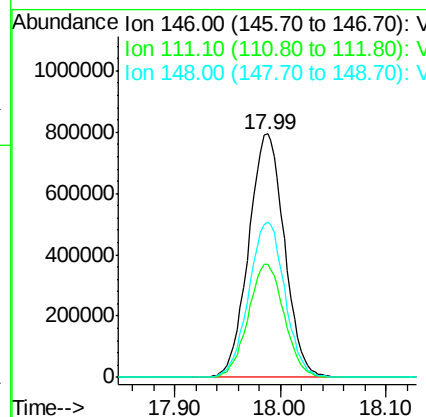
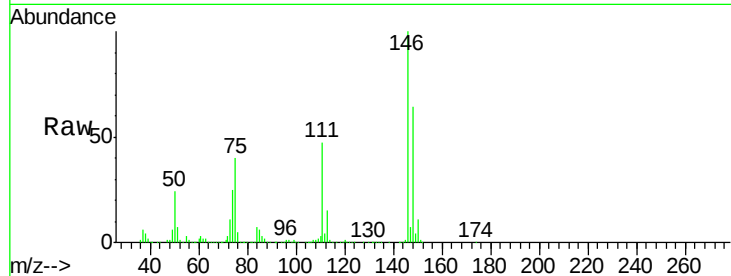




#77
 1,2-Dichlorobenzene
 Concen: 9.336 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

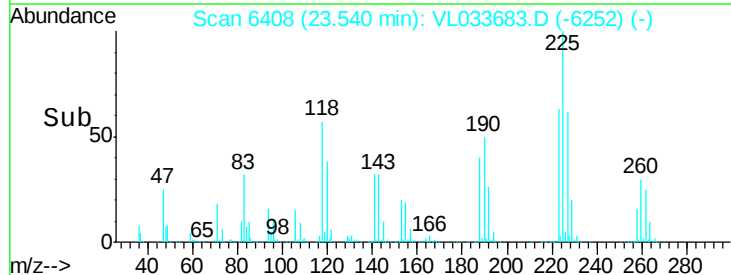
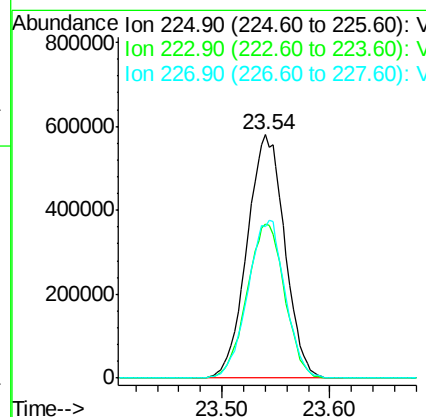
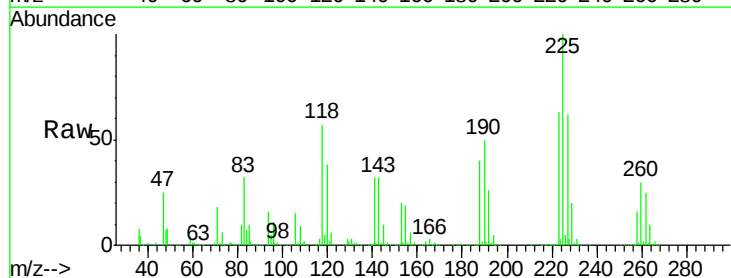
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

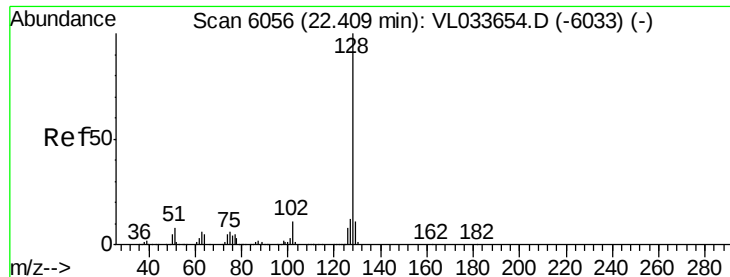
Tot Ion:146 Resp: 1874895
 Ion Ratio Lower Upper
 146 100
 111 46.9 23.4 70.0
 148 64.2 31.9 95.9



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.831 ppbv
 RT: 23.54 min Scan# 6408
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

Tgt Ion:225 Resp: 1405460
 Ion Ratio Lower Upper
 225 100
 223 63.3 50.7 76.1
 227 64.3 51.4 77.2





#79

Naphthalene

Concen: 8.814 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

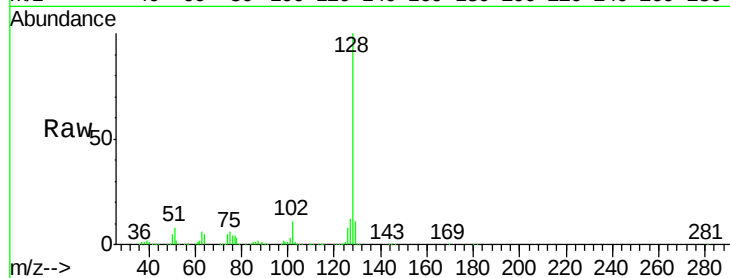
Tot Ion:128 Resp: 2887903

Ion Ratio Lower Upper

128 100

127 12.1 9.8 14.8

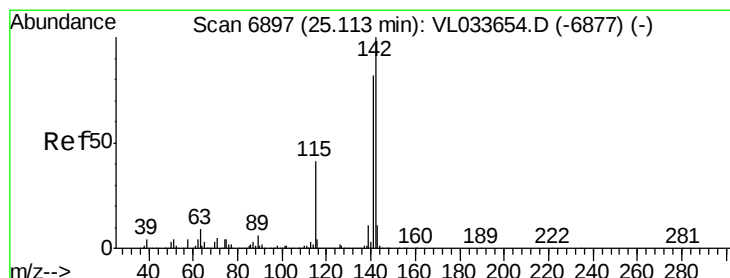
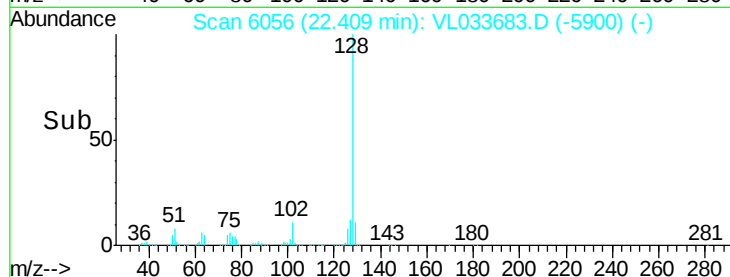
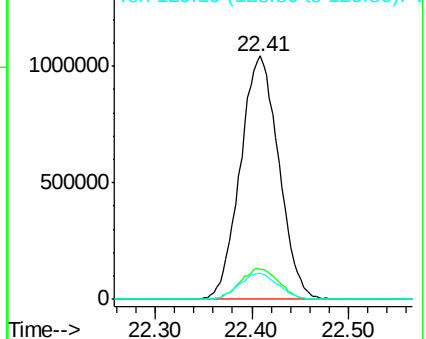
129 10.5 8.8 13.2



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.748 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. -0.00 min

Lab File: VL033683.D

Acq: 7 May 2019 15:34

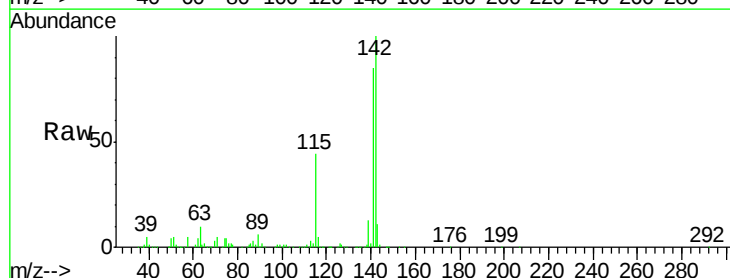
Tgt Ion:142 Resp: 1083705

Ion Ratio Lower Upper

142 100

141 84.2 67.9 101.9

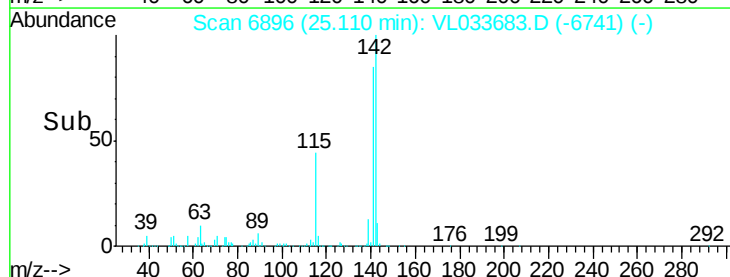
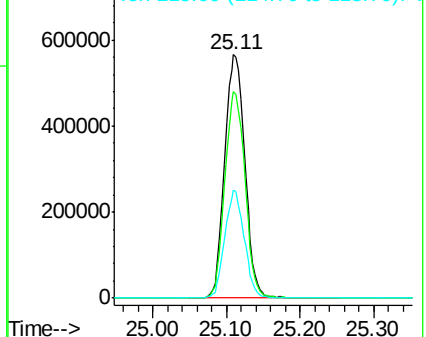
115 42.5 34.2 51.4

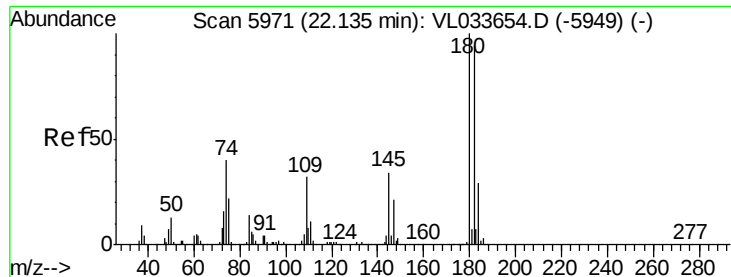


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

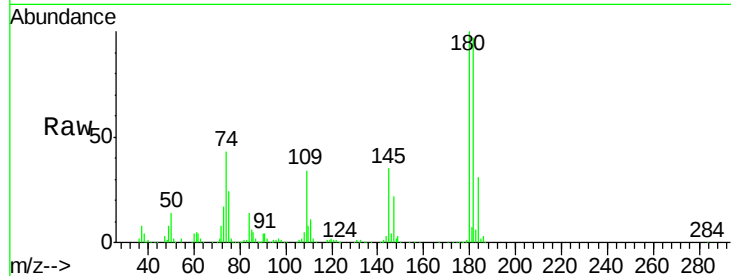




#81
 1,2,4-Trichlorobenzene
 Concen: 8.385 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:180 Resp: 1596268
 Ion Ratio Lower Upper
 180 100
 182 96.2 77.4 116.0
 184 30.6 24.6 36.8



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

