

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 02:25:18 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	Qvalue
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

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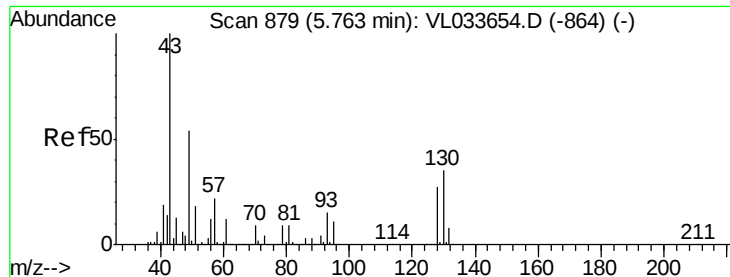
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3392123	9.892	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1131749	12.223	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1259297	10.897	ppbv	97
47) 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	3032864	10.804	ppbv #	41
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

[illegible]



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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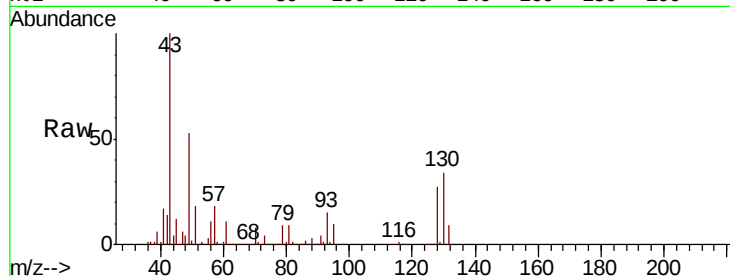
Tgt Ion: 49 Resp: 954766

Ion Ratio Lower Upper

49 100

128 49.1 24.8 74.3

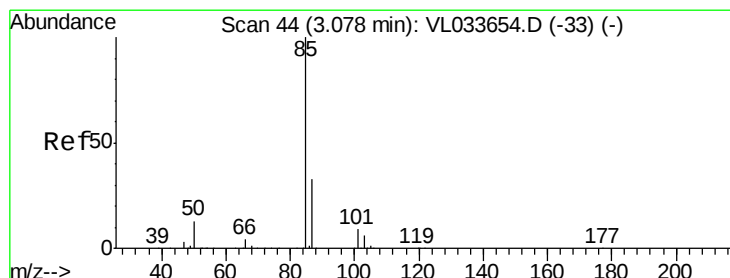
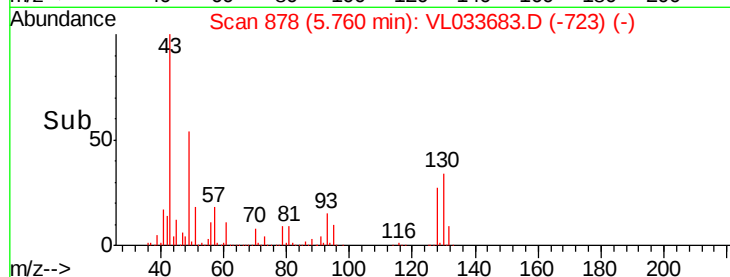
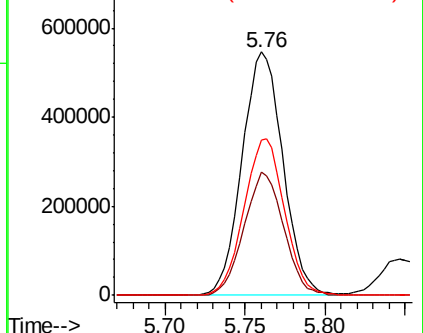
130 64.1 32.1 96.5



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

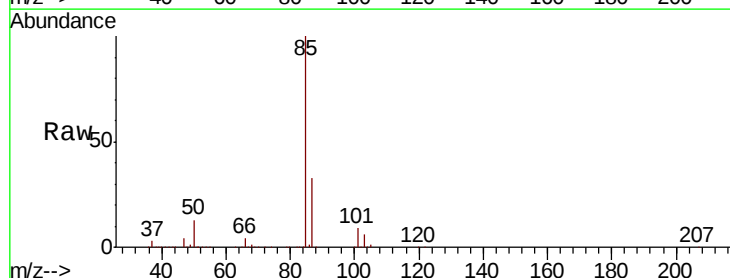
Acq: 7 May 2019 15:34

Tgt Ion: 85 Resp: 1608962

Ion Ratio Lower Upper

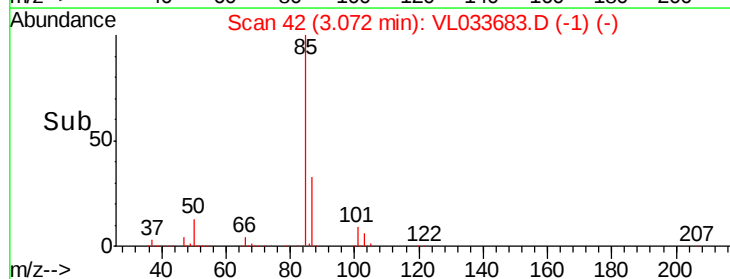
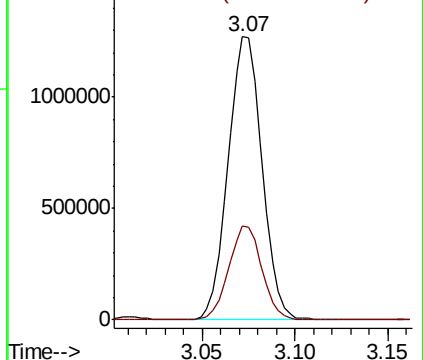
85 100

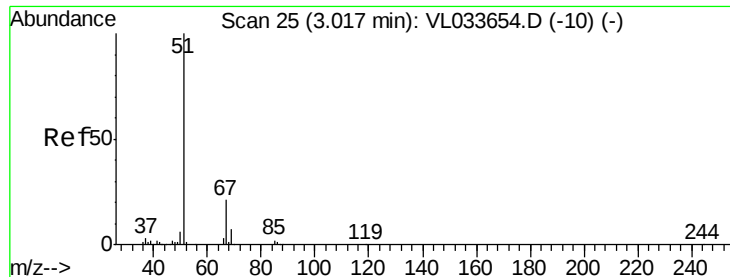
87 33.1 26.0 39.0



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 :

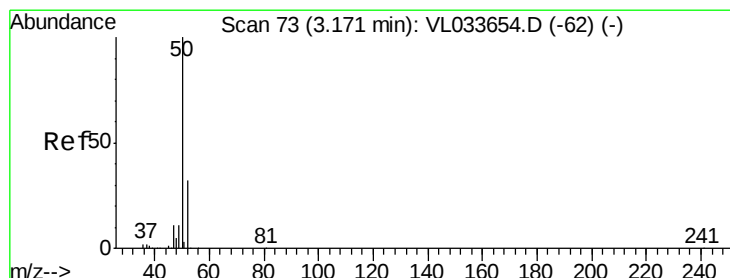
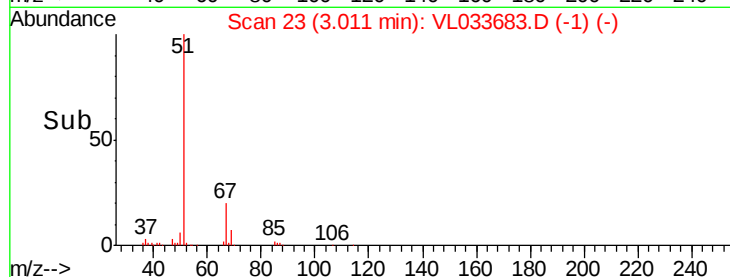
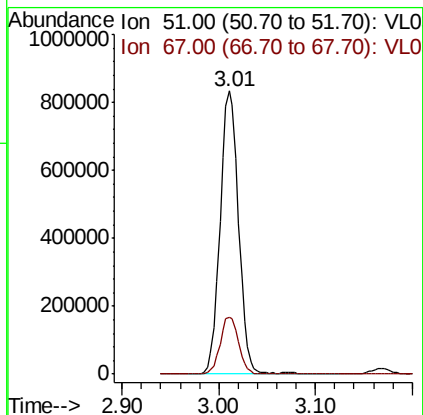
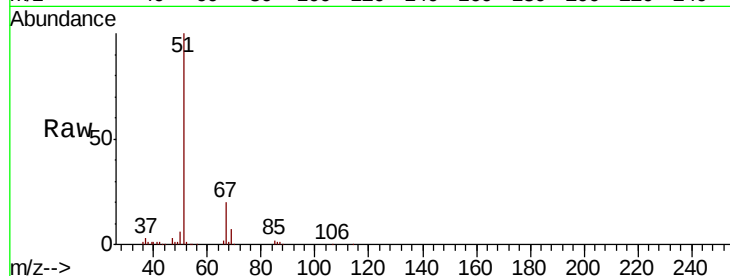
VSTDCCC010

Tgt 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

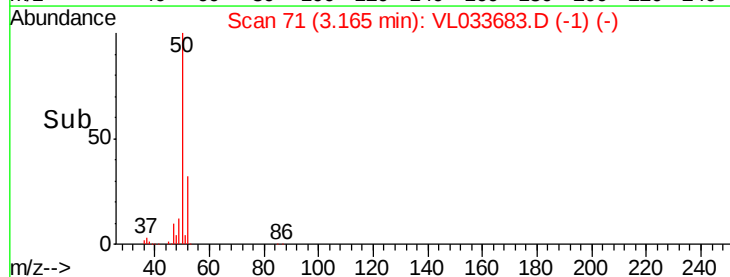
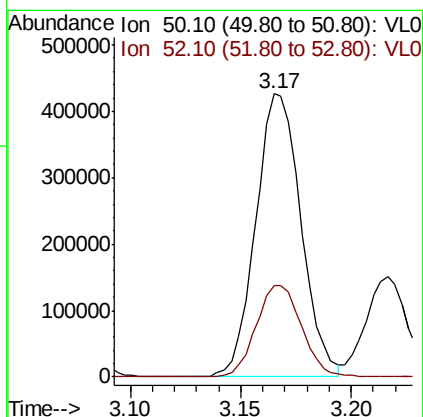
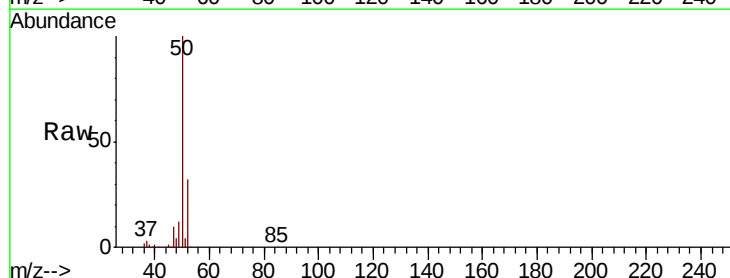
Acq: 7 May 2019 15:34

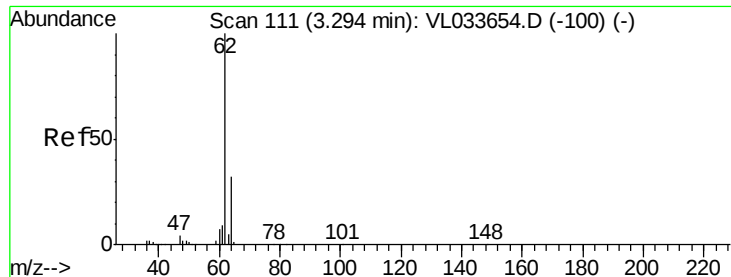
Tgt Ion: 50 Resp: 604047

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 :

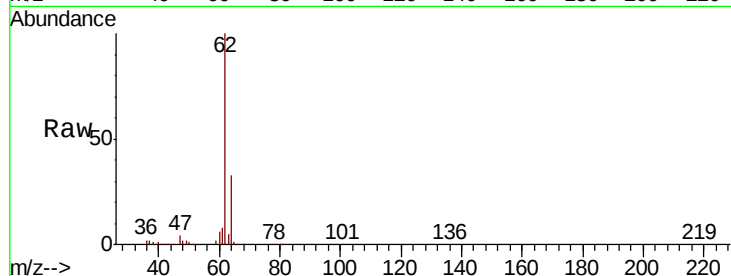
VSTDCCC010

Tgt Ion: 62 Resp: 605721

Ion Ratio Lower Upper

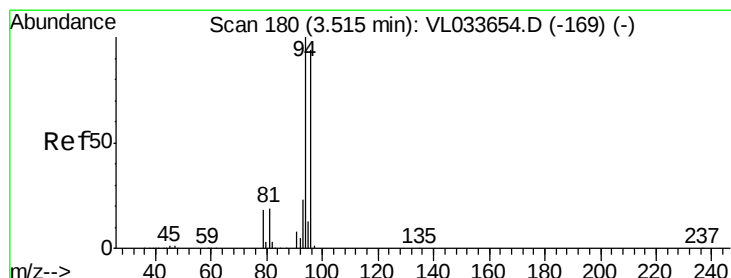
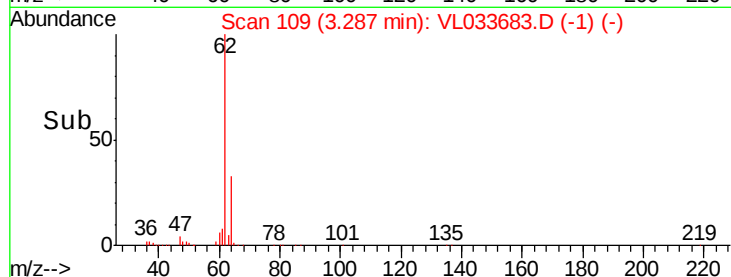
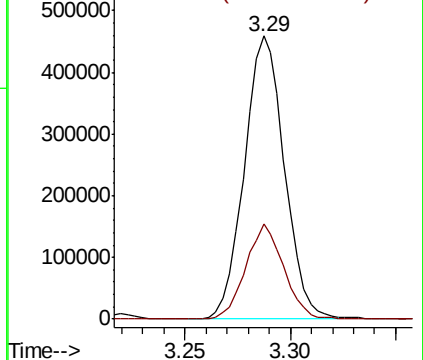
62 100

64 33.5 25.6 38.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.883 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.01 min

Lab File: VL033683.D

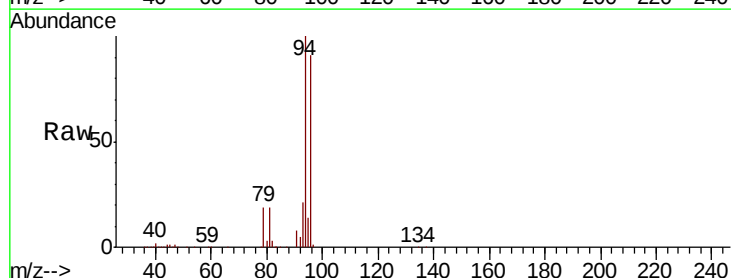
Acq: 7 May 2019 15:34

Tgt Ion: 94 Resp: 393273

Ion Ratio Lower Upper

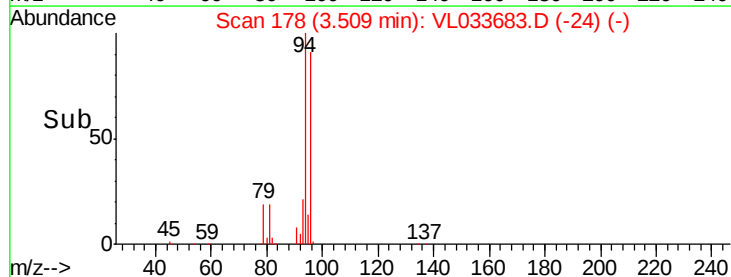
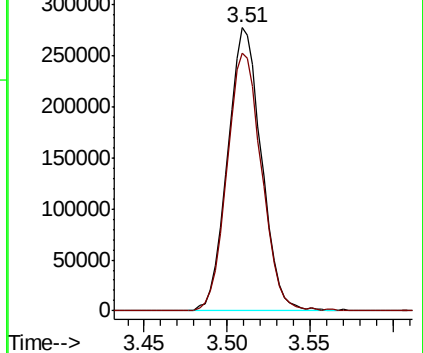
94 100

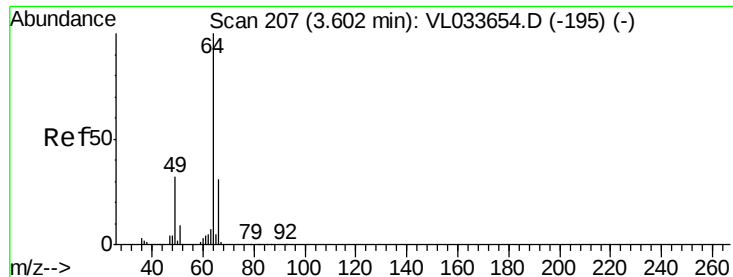
96 90.9 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#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 :

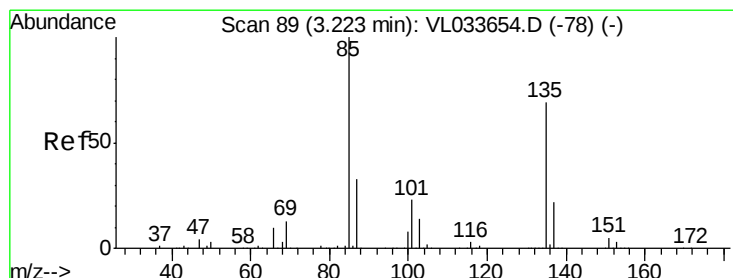
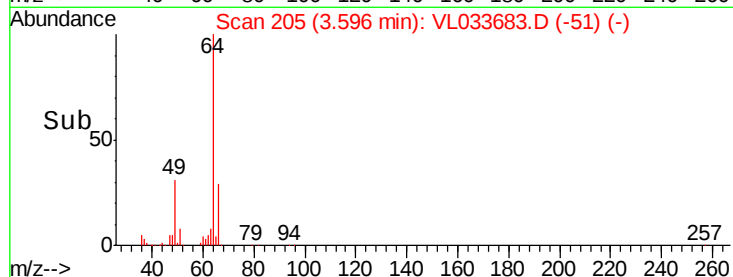
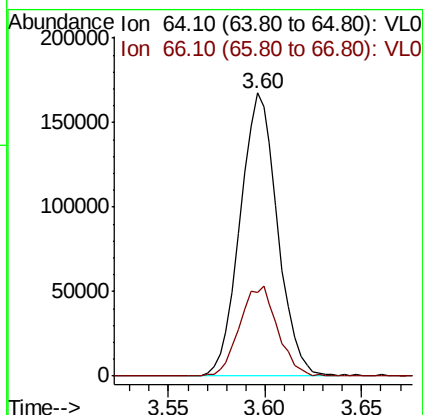
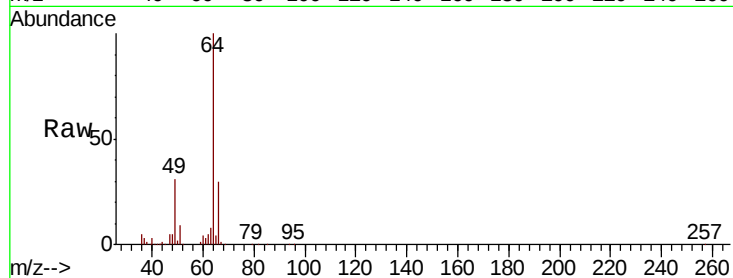
VSTDCCC010

Tgt 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

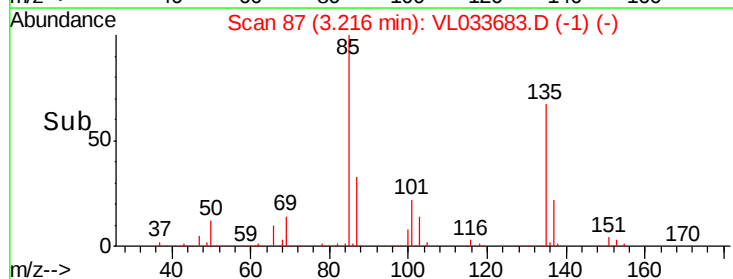
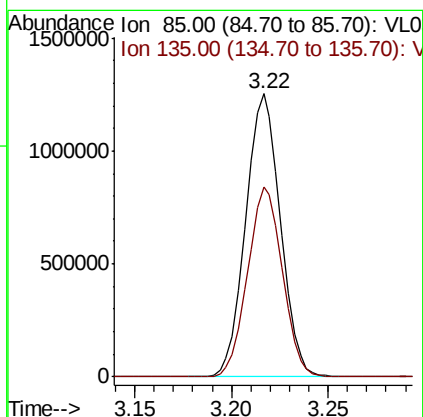
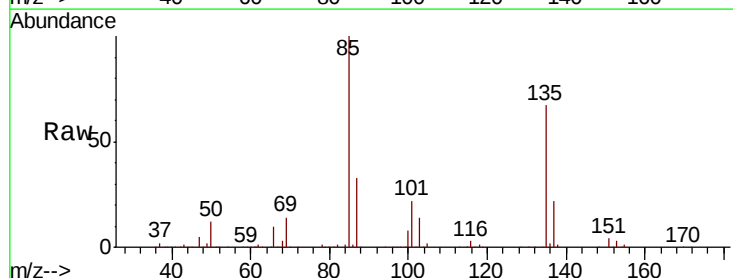
Acq: 7 May 2019 15:34

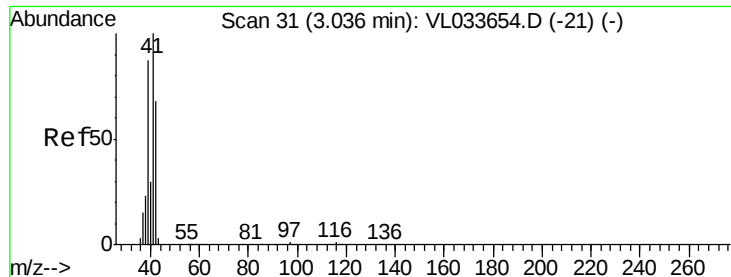
Tgt Ion: 85 Resp: 1566629

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 :

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ClientSampleId :

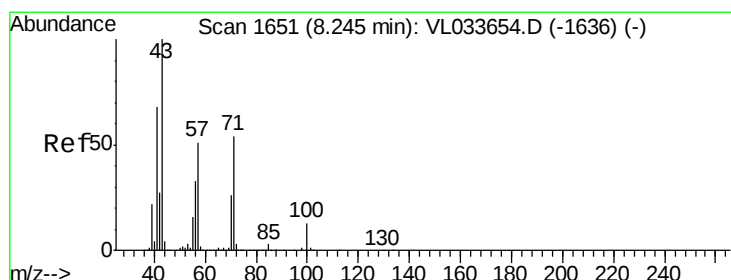
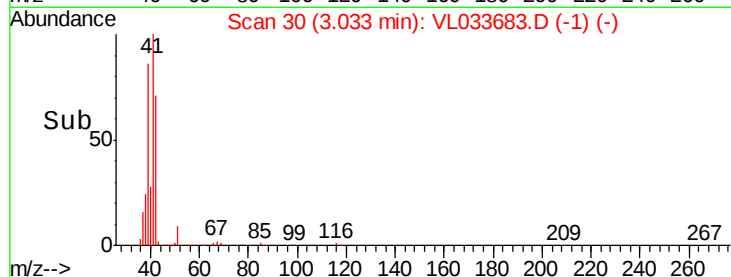
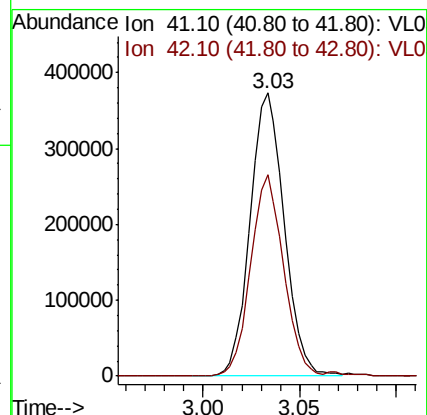
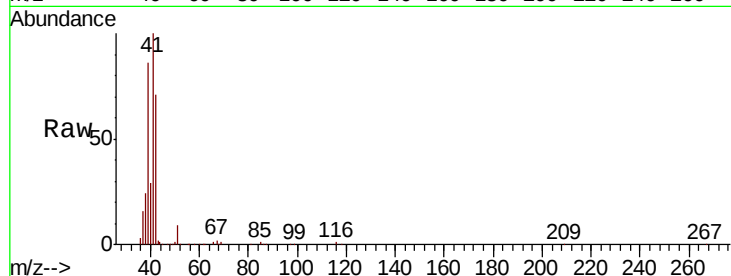
VSTDCCC010

Tgt 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

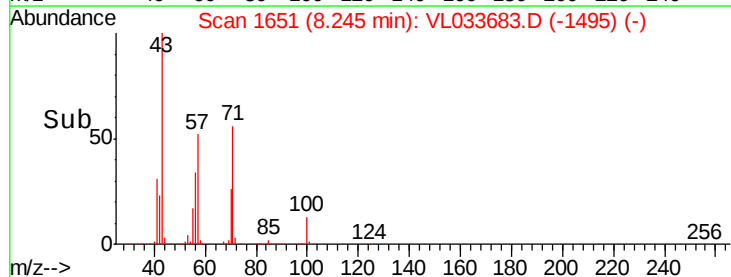
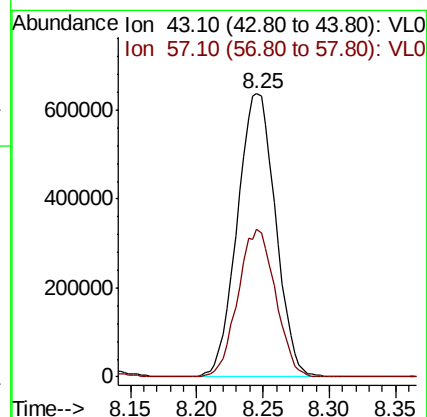
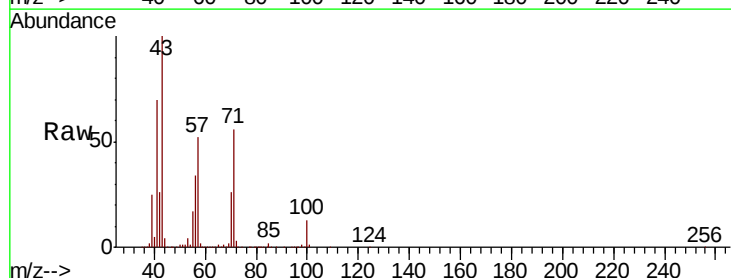
Acq: 7 May 2019 15:34

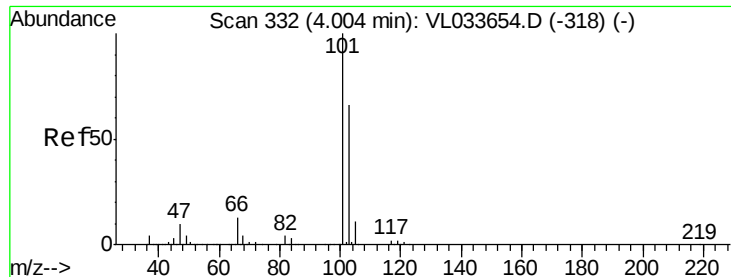
Tgt Ion: 43 Resp: 1271036

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 :

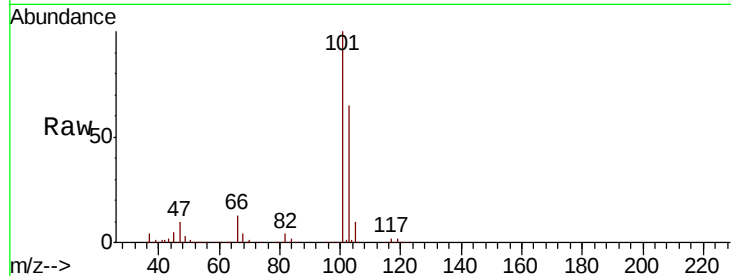
VSTDCCC010

Tgt Ion:101 Resp: 1871171

Ion Ratio Lower Upper

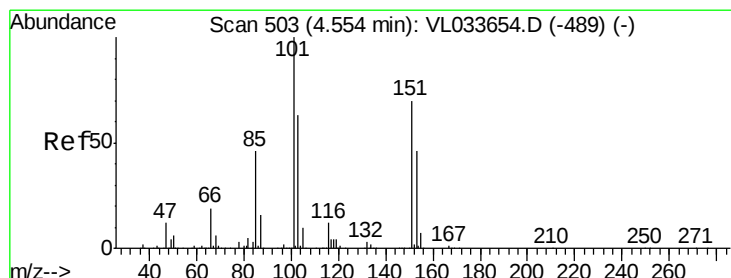
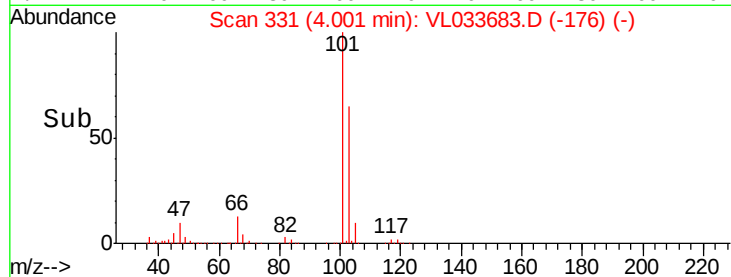
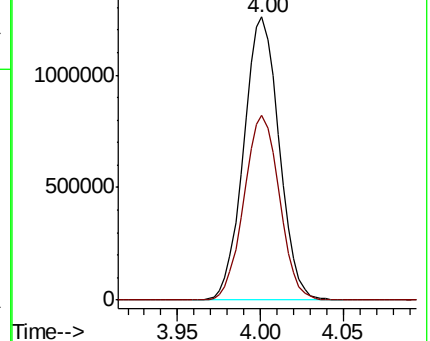
101 100

103 65.3 52.7 79.1



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: 8.910 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033683.D

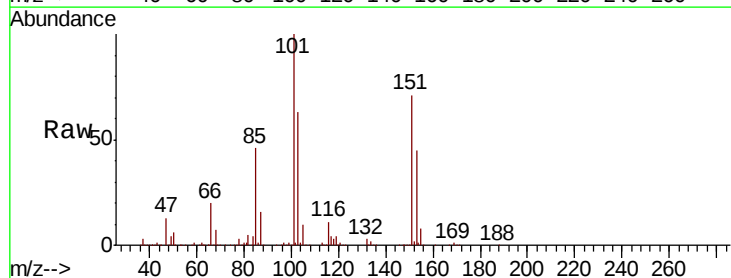
Acq: 7 May 2019 15:34

Tgt Ion:101 Resp: 1252600

Ion Ratio Lower Upper

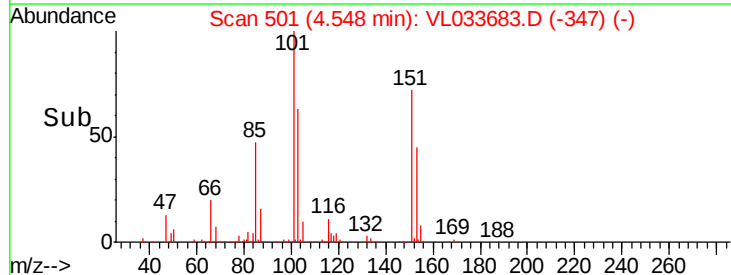
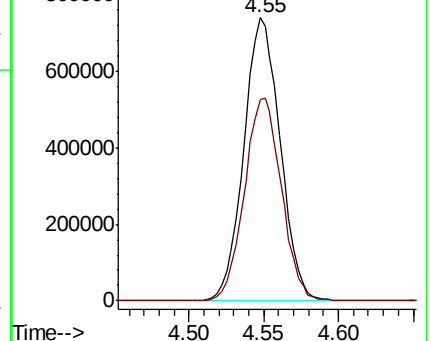
101 100

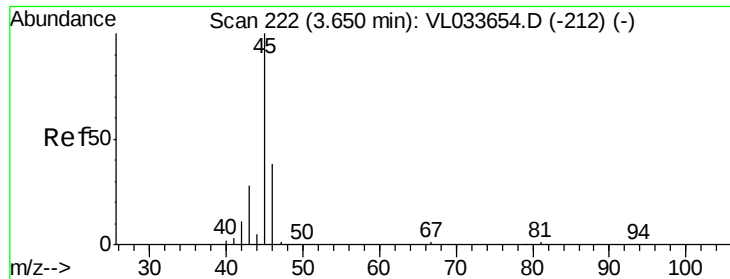
151 72.7 58.0 87.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#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 :

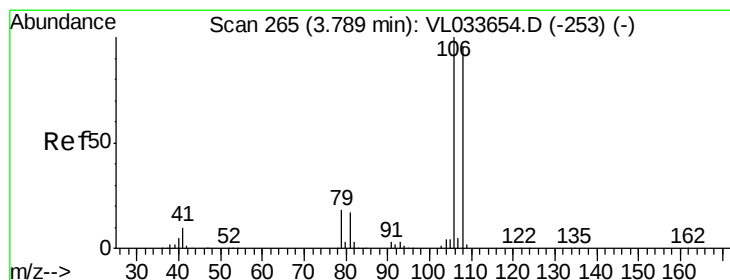
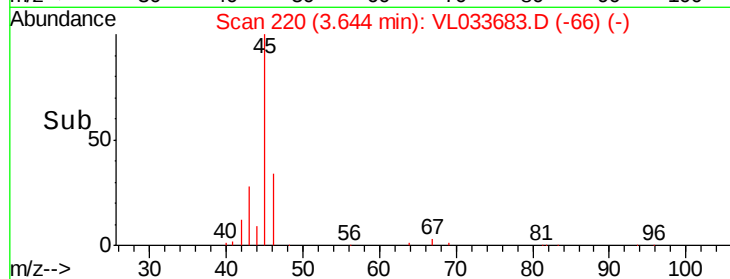
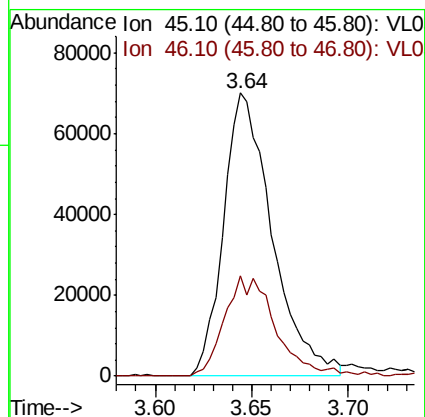
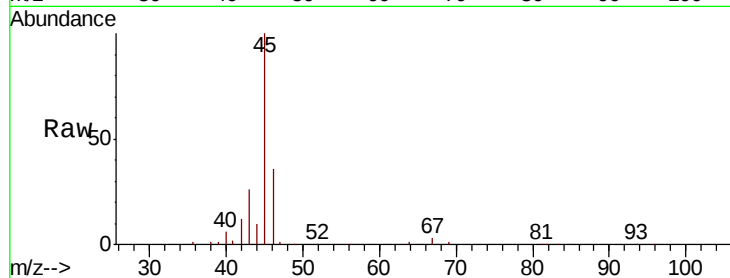
VSTDCCC010

Tgt 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

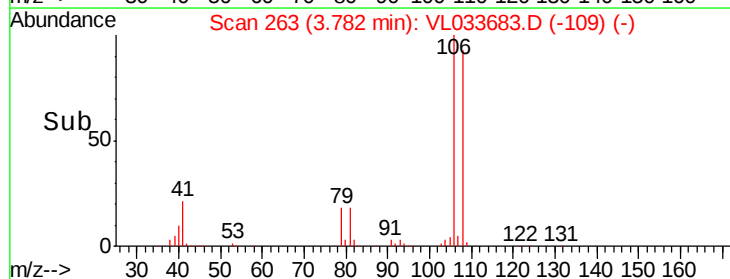
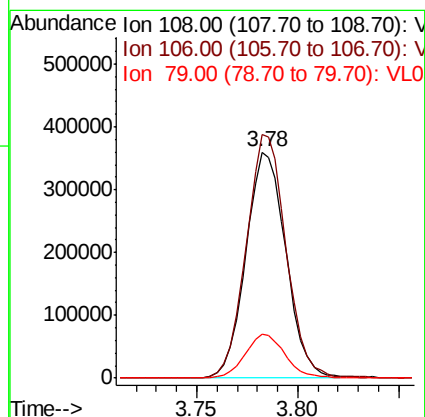
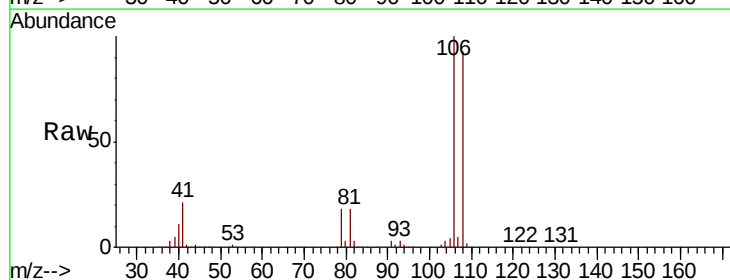
Tgt Ion: 108 Resp: 501458

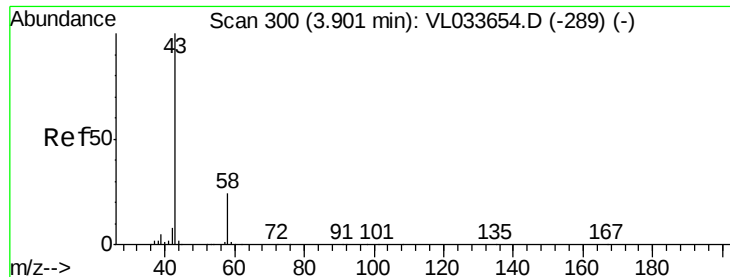
Ion Ratio Lower Upper

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 :

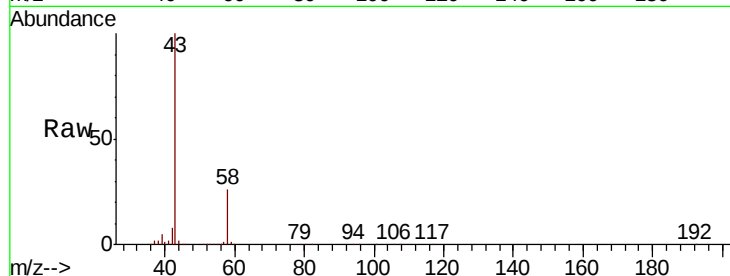
VSTDCCC010

Tgt 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

3.90

800000

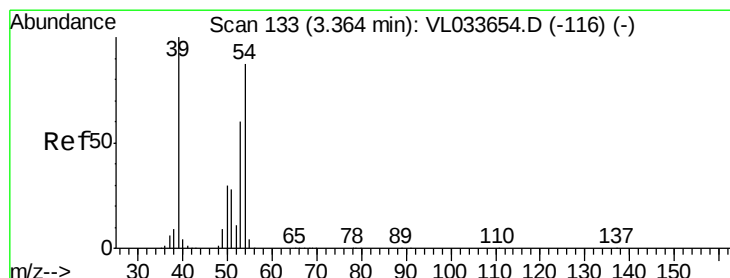
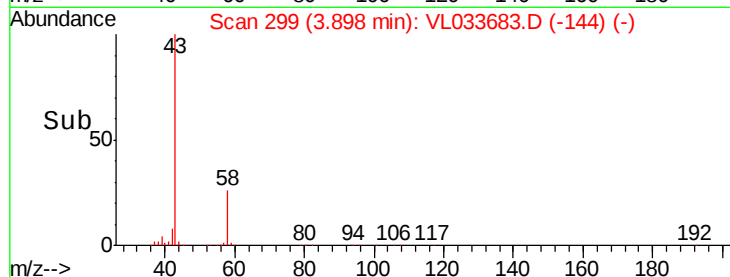
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.055 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033683.D

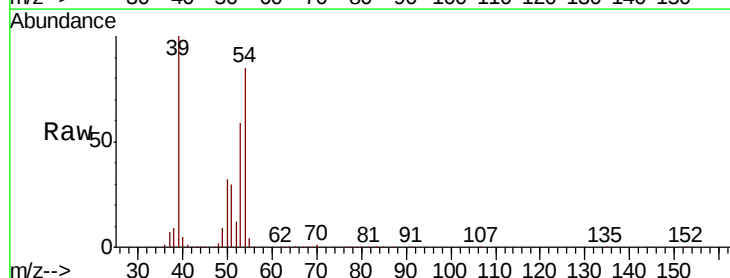
Acq: 7 May 2019 15:34

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

3.36

500000

400000

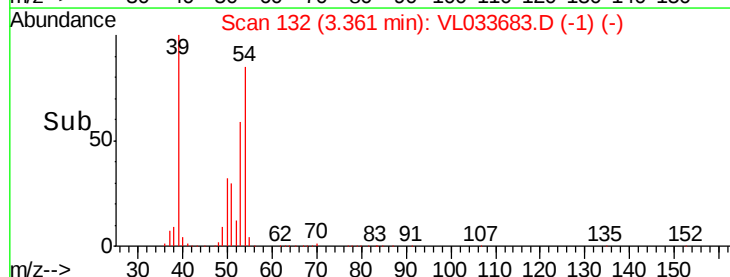
300000

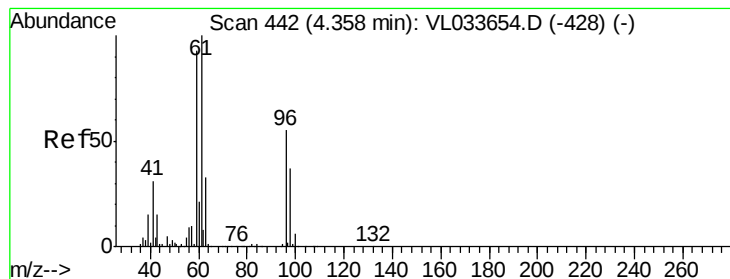
200000

100000

0

Time-->



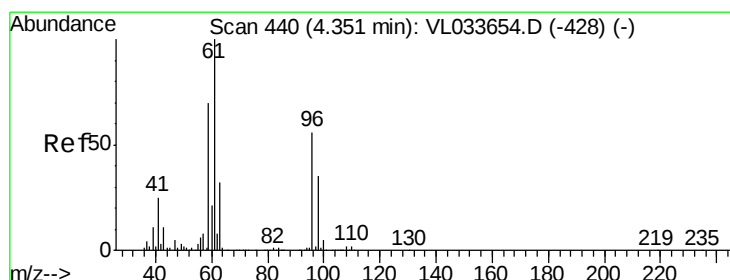
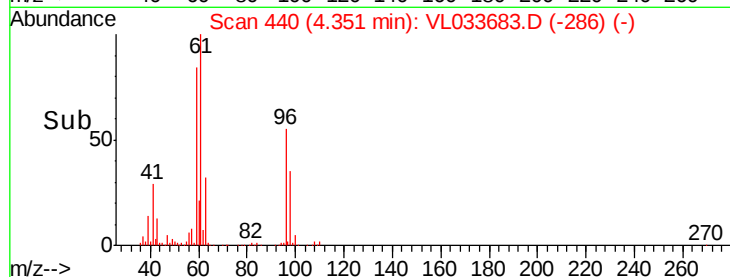
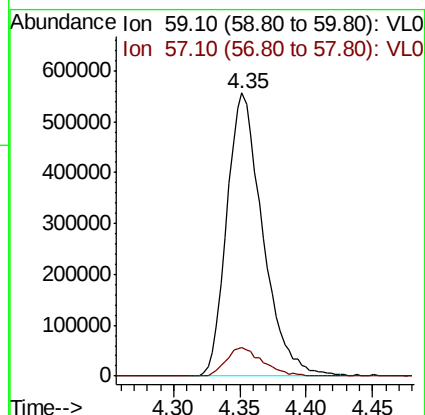
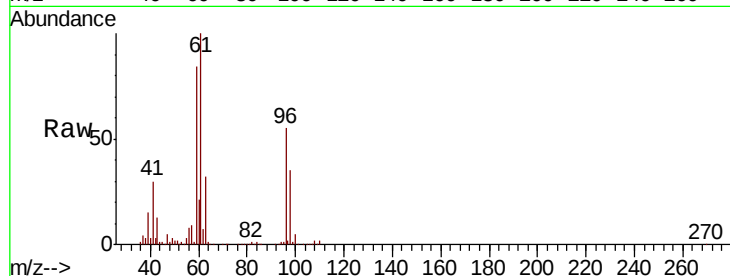


#17

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

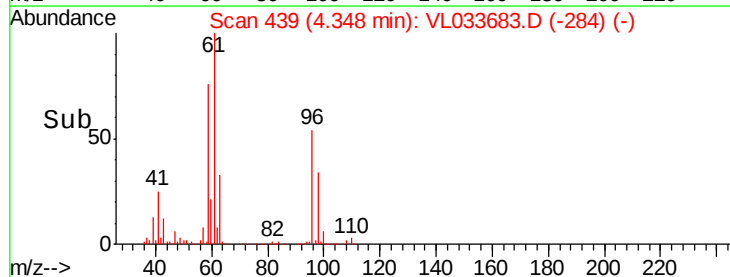
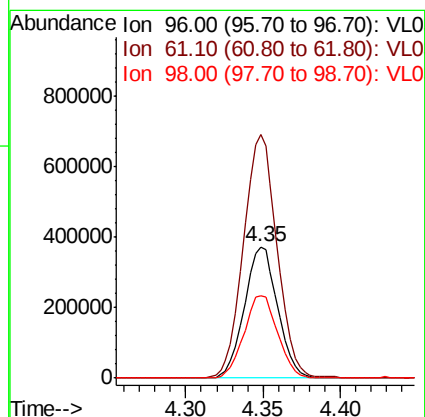
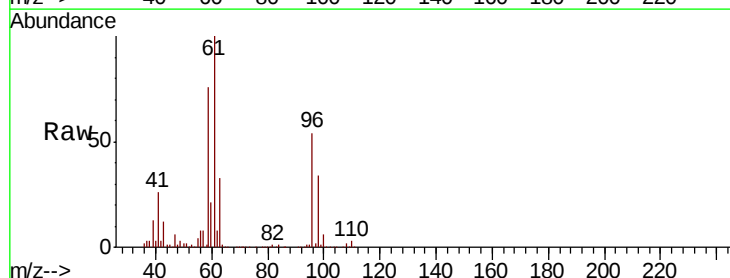
Tgt Ion: 59 Resp: 1046692
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.4 12.6

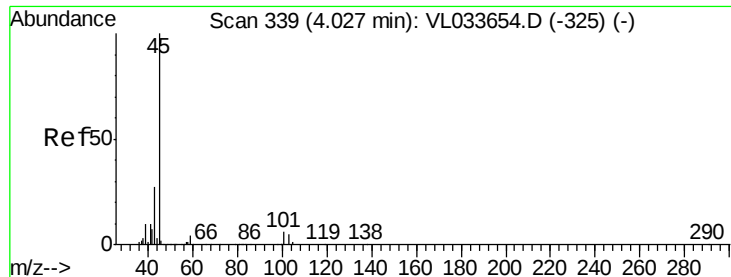


#18

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 :

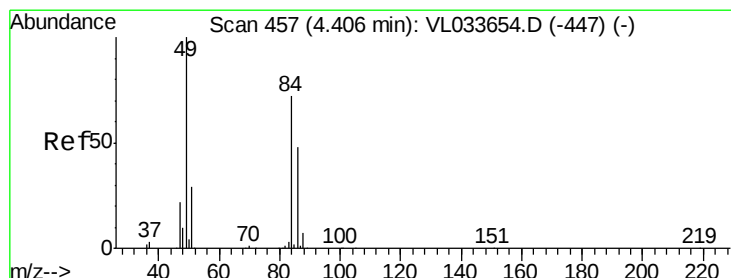
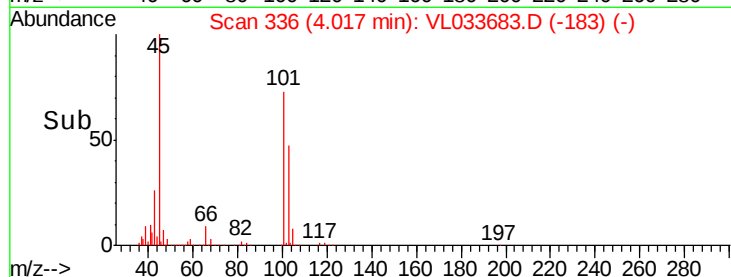
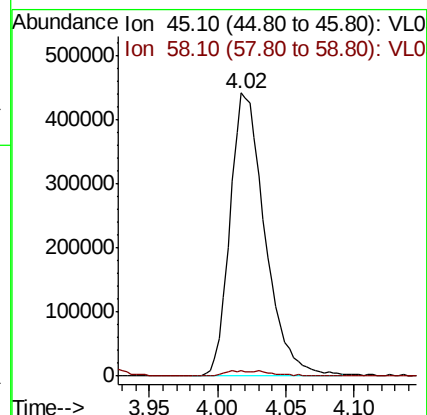
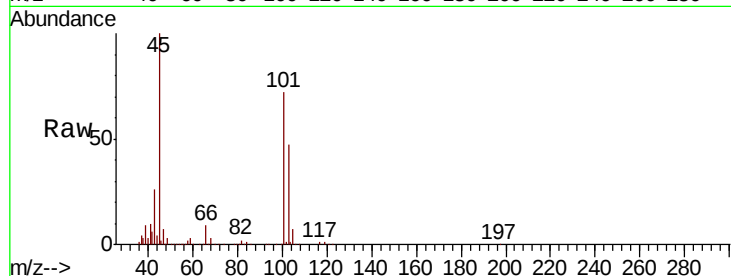
VSTDCCC010

Tgt 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

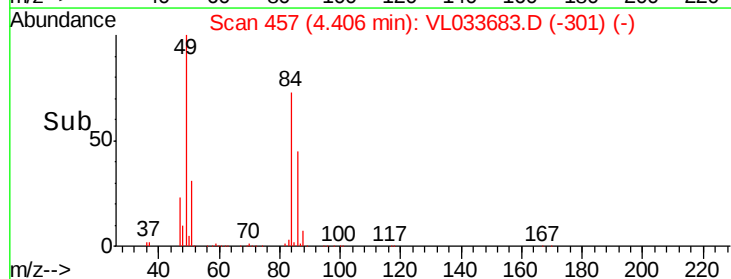
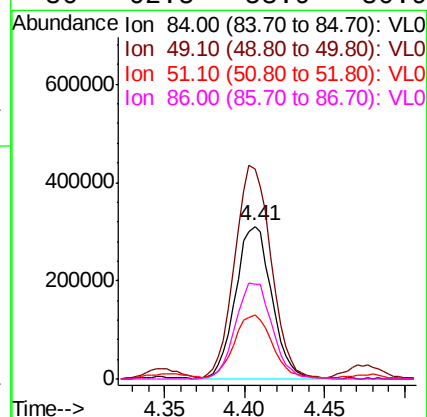
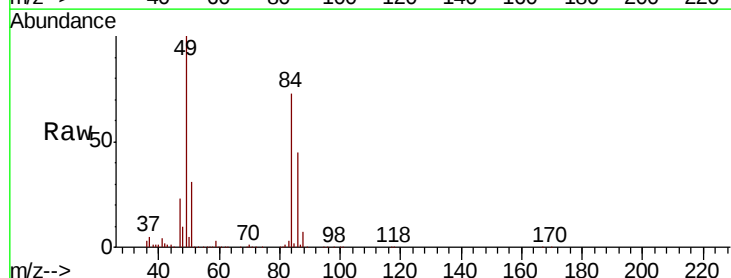
Ion Ratio Lower Upper

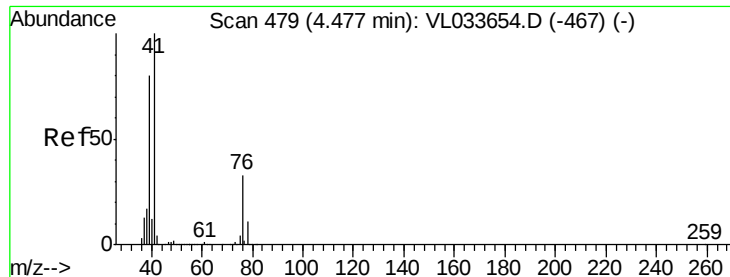
84 100

49 136.3 111.8 167.6

51 40.4 32.3 48.5

86 62.5 53.9 80.9

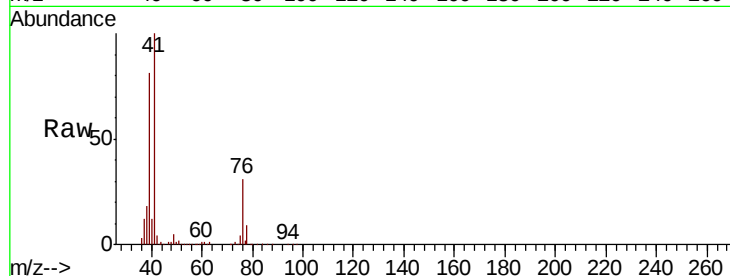




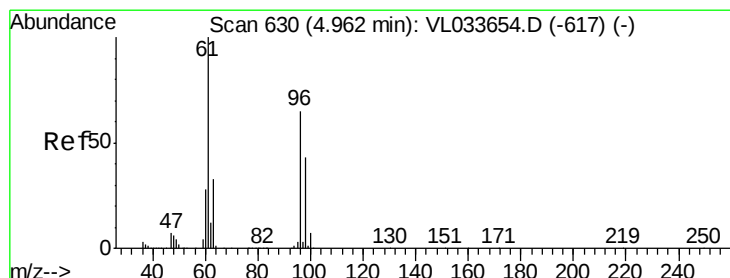
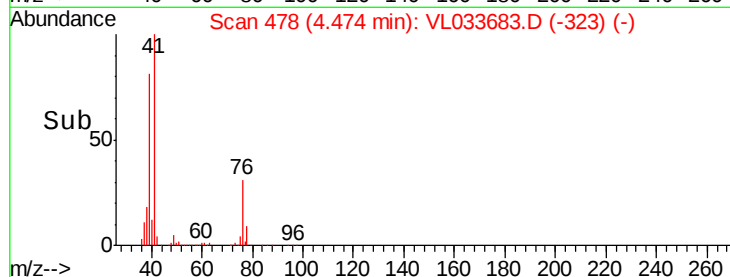
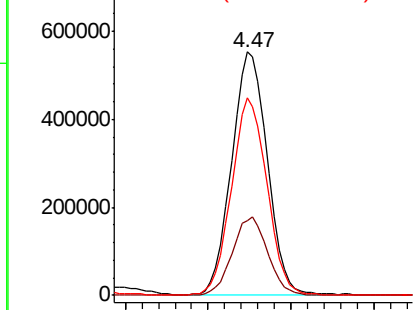
#21
 Allyl Chloride
 Concen: 9.605 ppbv
 RT: 4.47 min Scan# 478
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

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

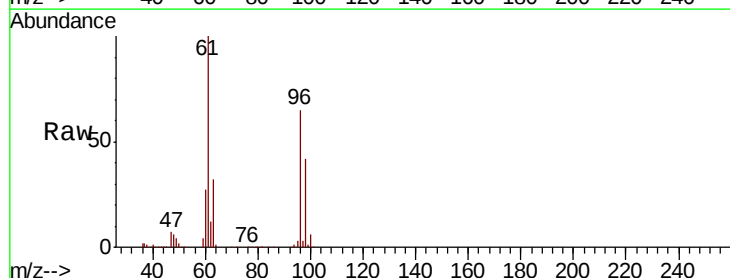


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

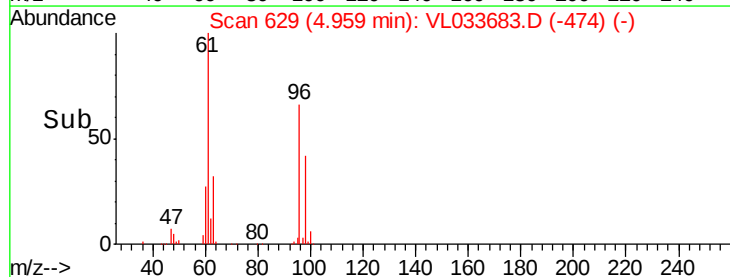
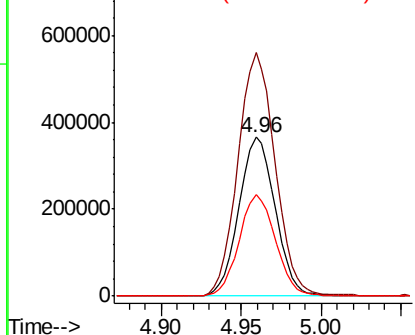


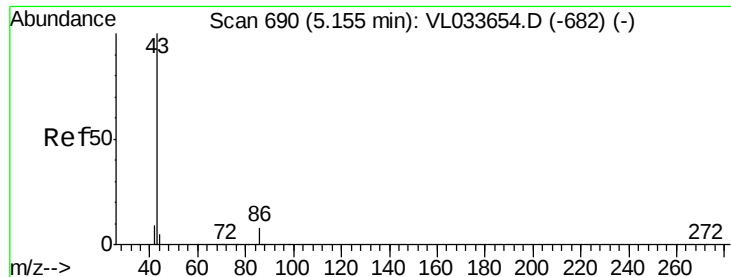
#22
 trans-1,2-Dichloroethene
 Concen: 9.272 ppbv
 RT: 4.96 min Scan# 629
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

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

Tgt Ion: 43 Resp: 1814684

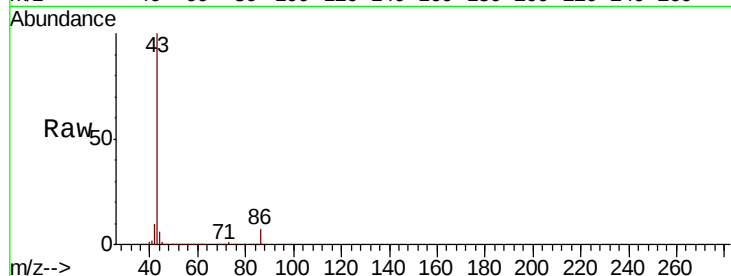
Ion Ratio Lower Upper

43 100

86 7.2 6.0 9.0

42 10.2 8.0 12.0

44 5.8 3.9 5.9

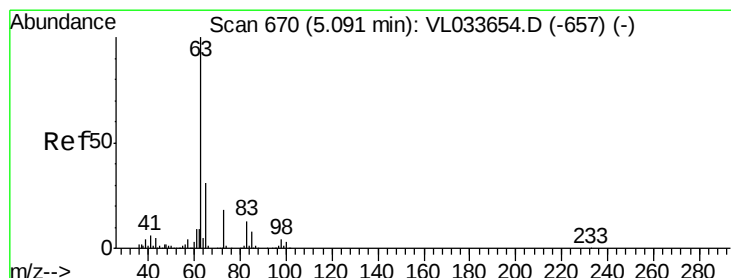
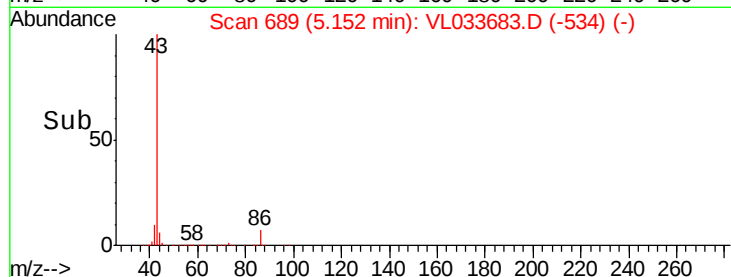
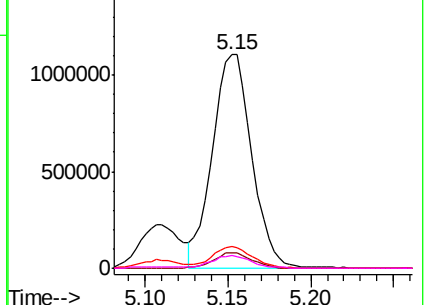


Abundance Ion 43.10 (42.80 to 43.80): VL0

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

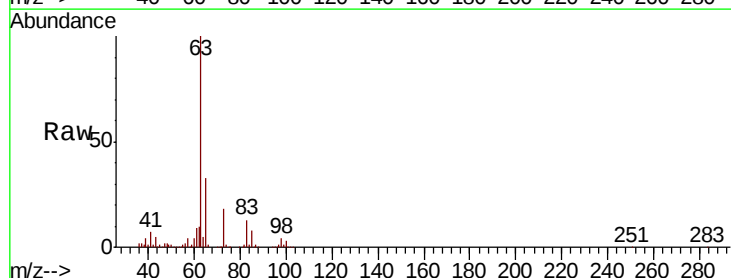
Tgt Ion: 63 Resp: 1248149

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.2

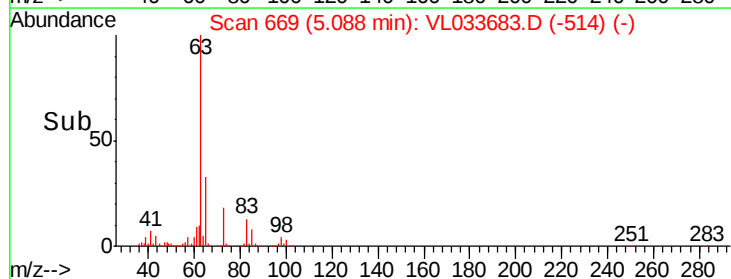
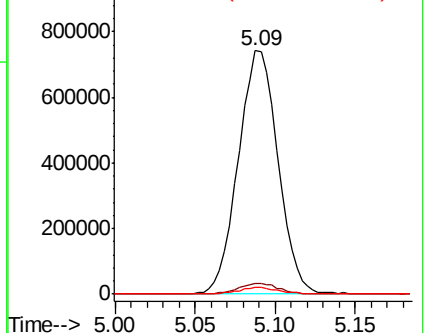
100 2.7 1.5 4.4

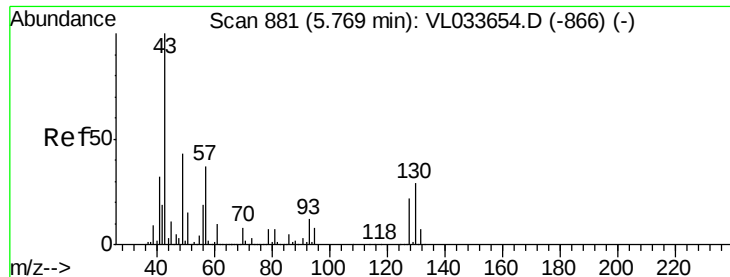


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



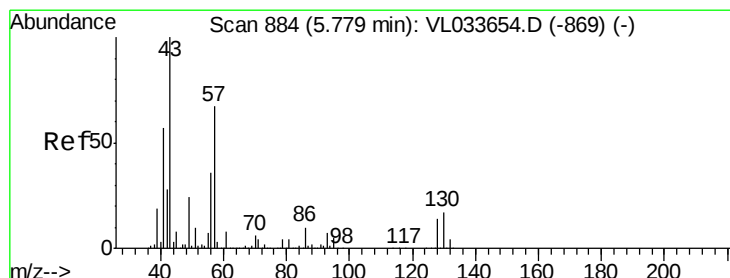
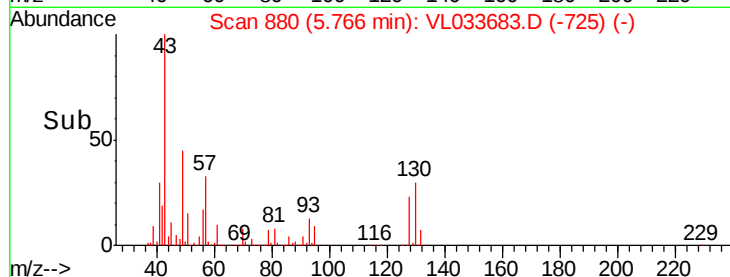
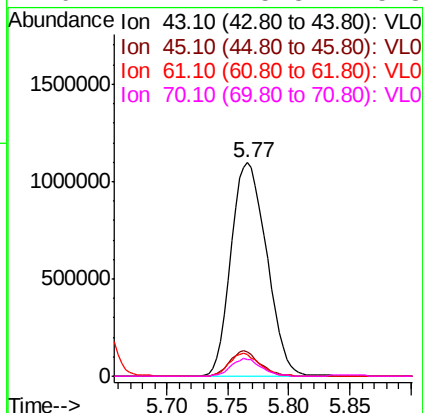
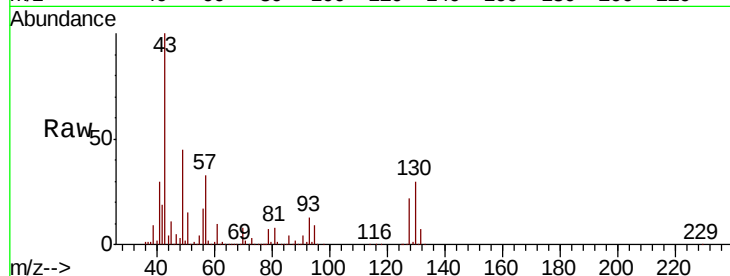


#25
Ethyl Acetate
Concen: 9.639 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 2227416

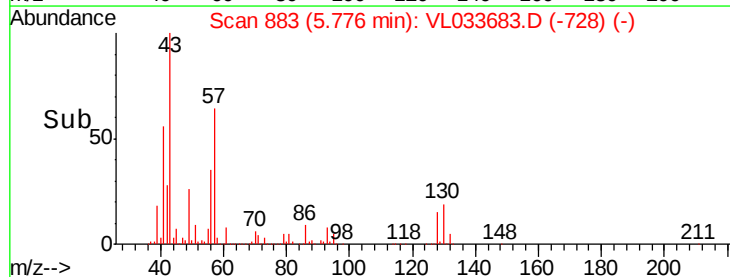
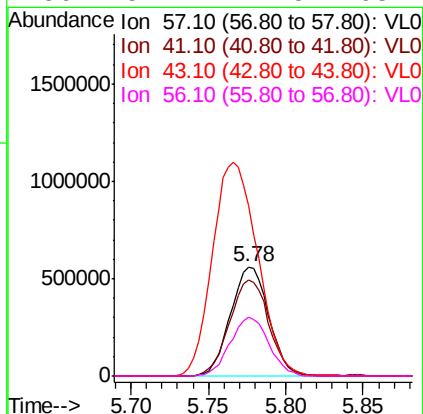
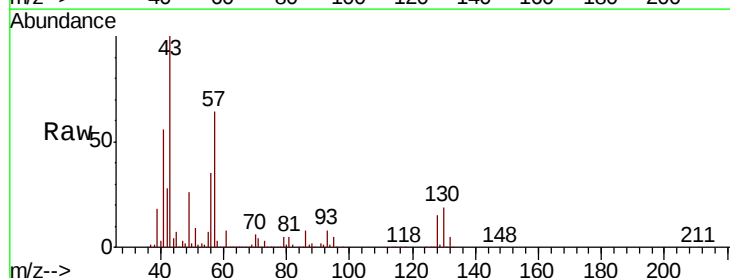
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.0	12.0
61	9.4	7.5	11.3
70	7.1	5.8	8.8

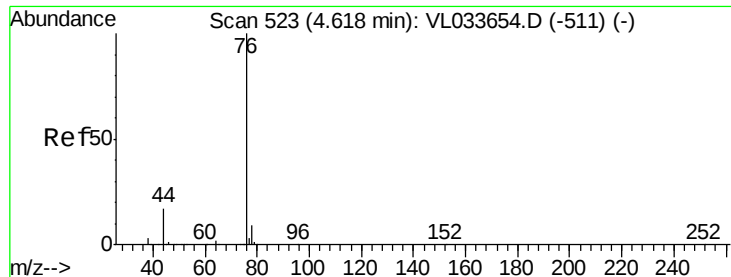


#26
Hexane
Concen: 9.677 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

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

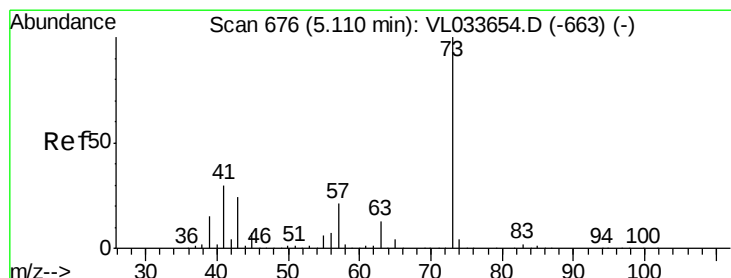
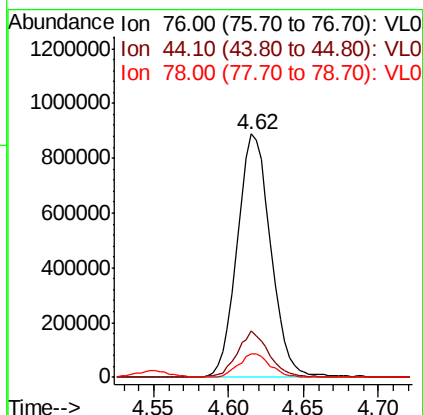
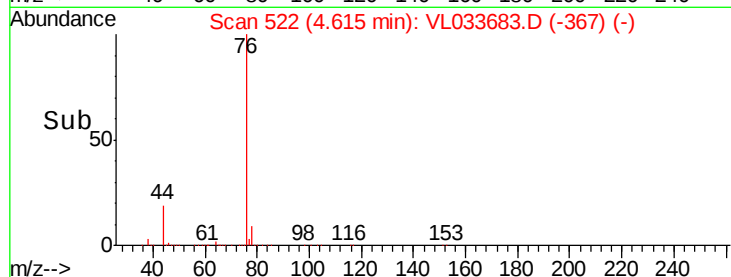
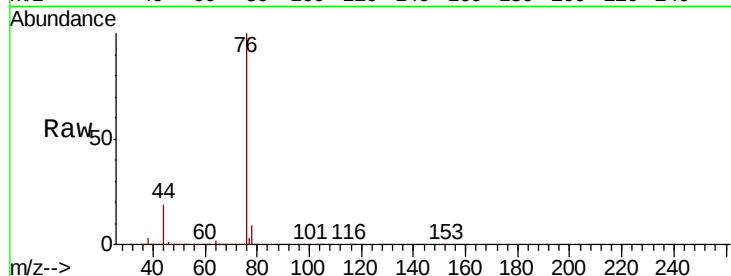
Tgt Ion: 76 Resp: 1387600

Ion Ratio Lower Upper

76 100

44 17.8 14.4 21.6

78 9.3 7.4 11.2



#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

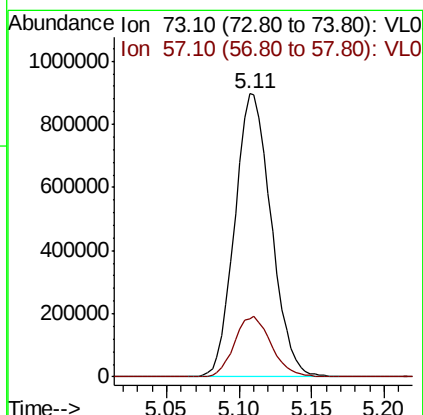
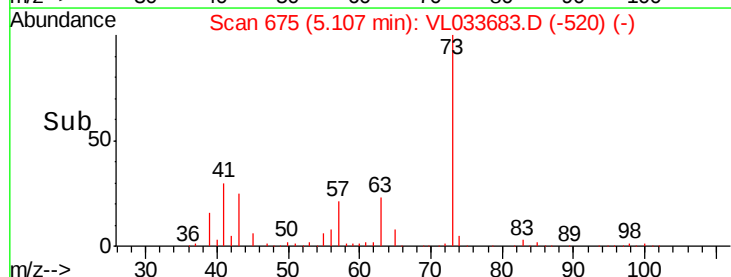
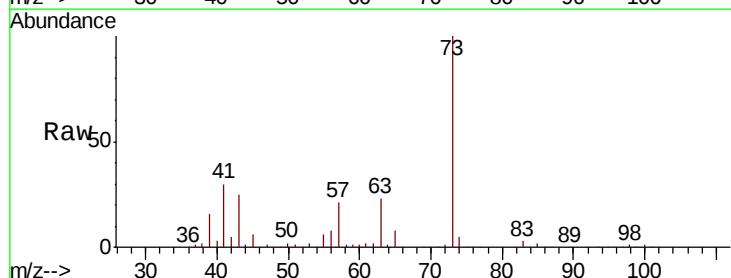
Acq: 7 May 2019 15:34

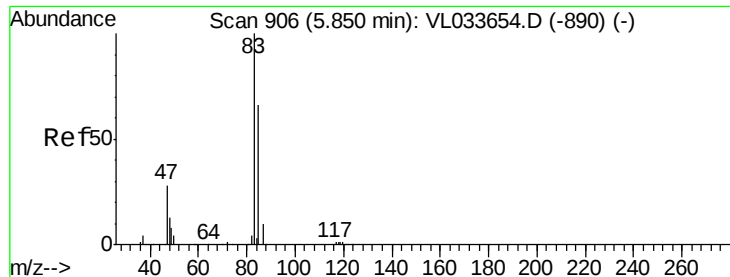
Tgt Ion: 73 Resp: 1569329

Ion Ratio Lower Upper

73 100

57 21.7 17.4 26.0





#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 :

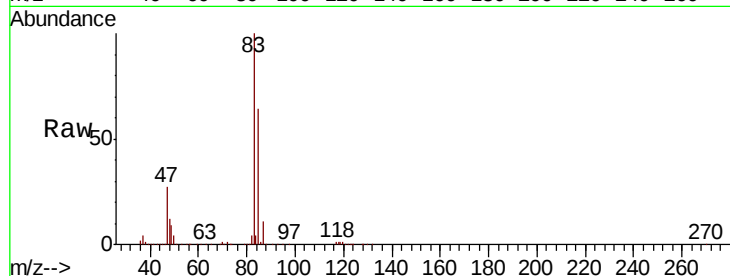
VSTDCCC010

Tgt Ion: 83 Resp: 1675642

Ion Ratio Lower Upper

83 100

85 64.0 52.6 78.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.85

1000000

800000

600000

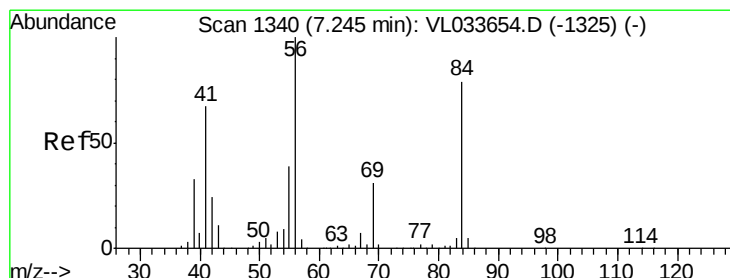
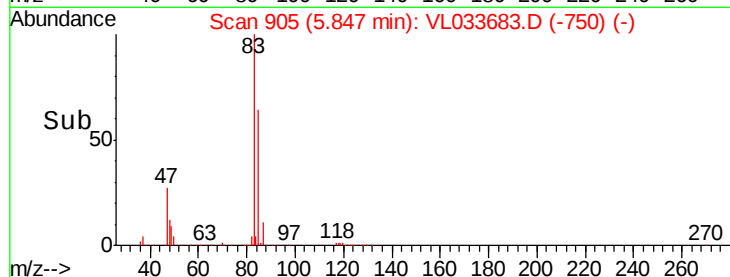
400000

200000

0

5.75 5.80 5.85 5.90

Time-->



#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

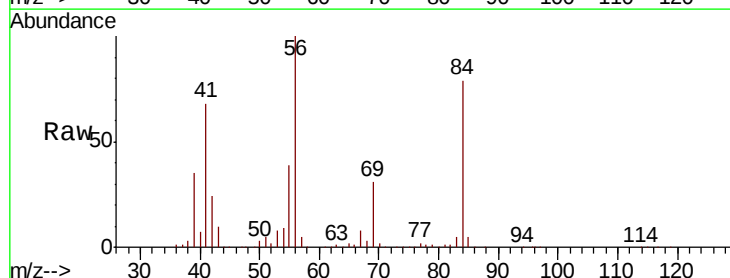
Tgt Ion: 84 Resp: 819986

Ion Ratio Lower Upper

84 100

56 135.7 107.0 160.4

41 84.7 66.6 99.8



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

600000

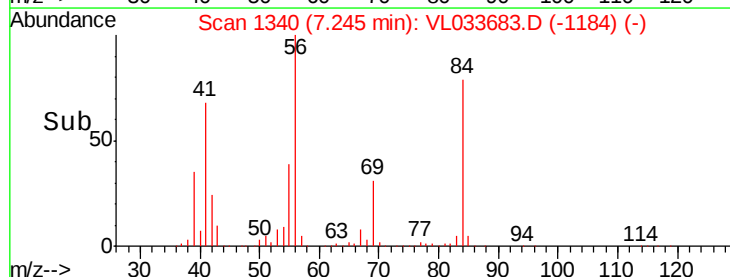
400000

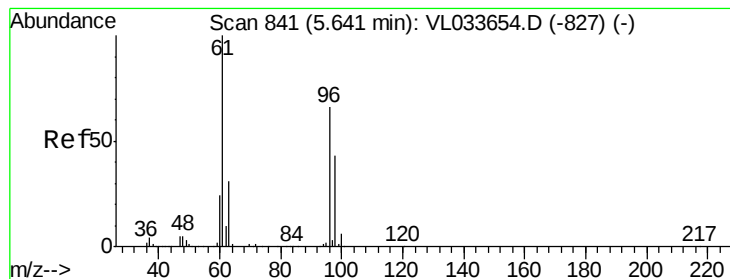
200000

0

7.15 7.20 7.25 7.30

Time-->



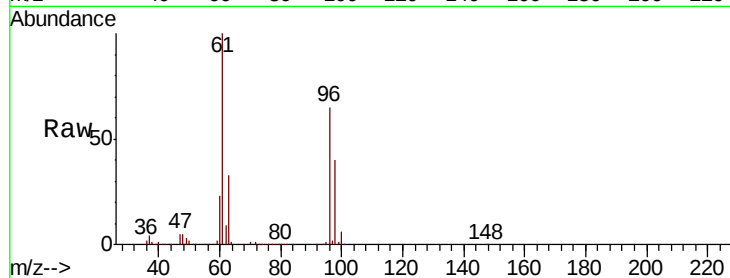


#31

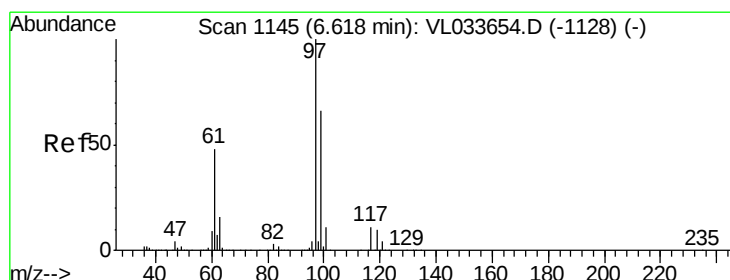
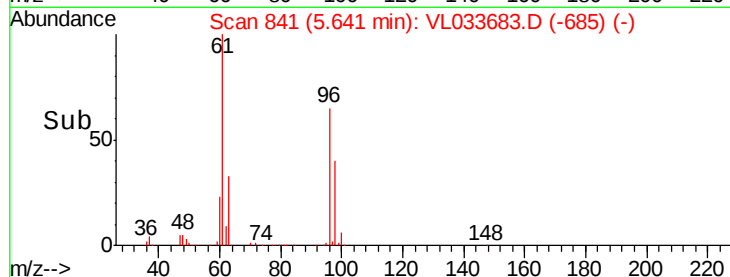
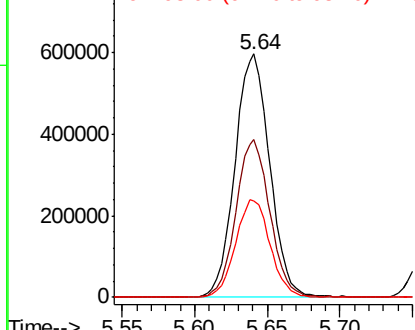
cis-1,2-Dichloroethene
 Concen: 10.032 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 61 Resp: 991348
 Ion Ratio Lower Upper
 61 100
 96 64.6 53.2 79.8
 98 39.8 34.2 51.4



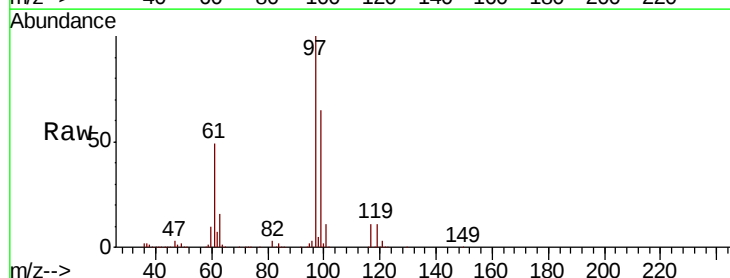
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



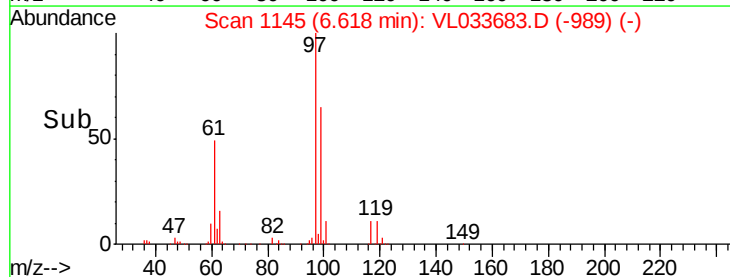
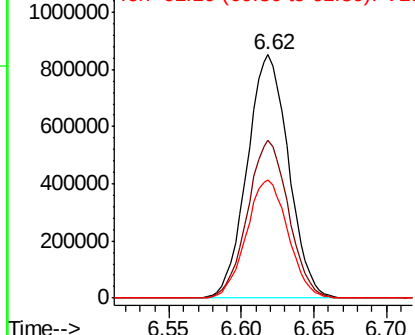
#32

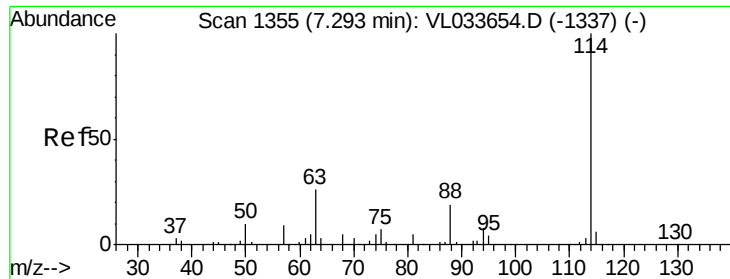
1,1,1-Trichloroethane
 Concen: 9.169 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

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

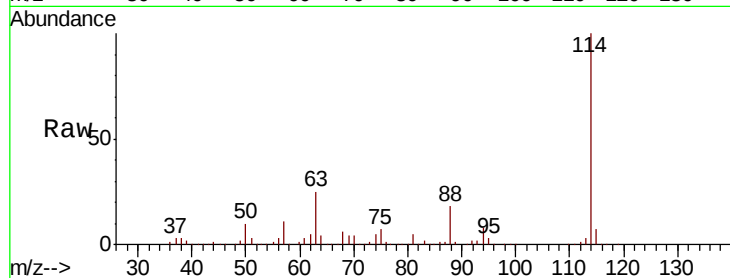




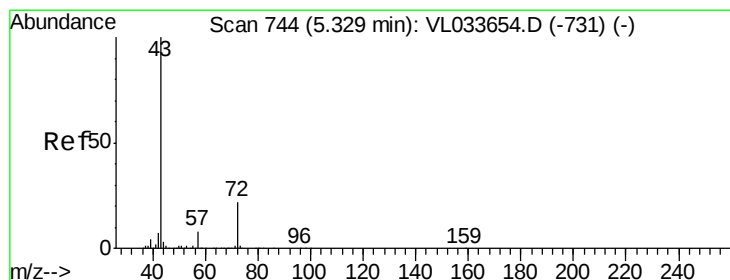
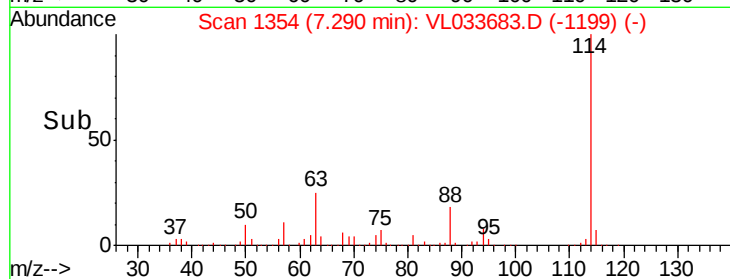
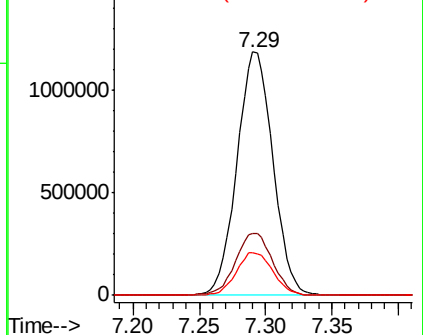
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:114 Resp: 2236675
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.3 31.9
 88 17.9 14.4 21.6

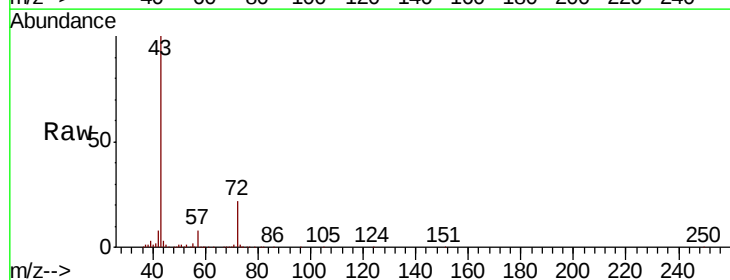


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

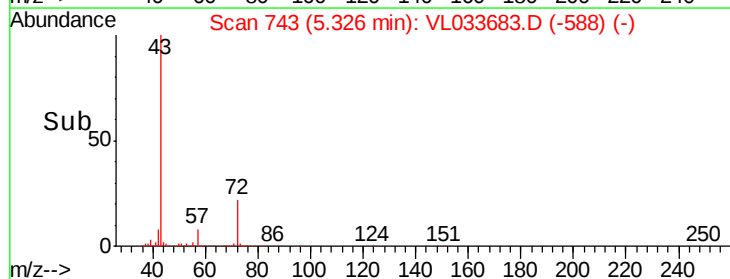
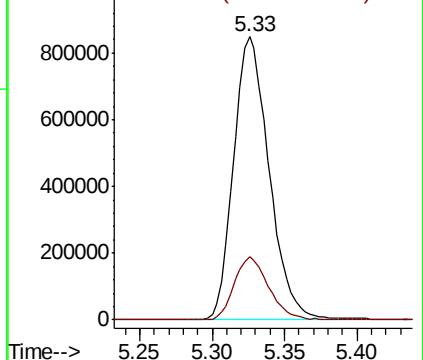


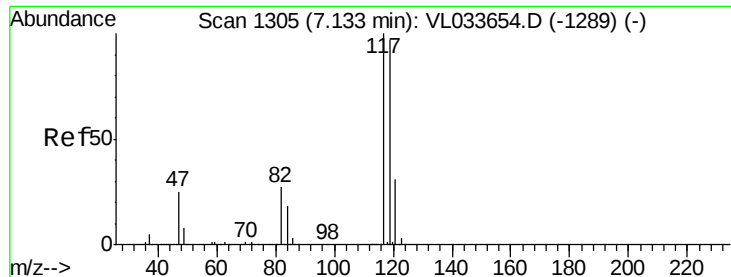
#34
 2-Butanone
 Concen: 10.063 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

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

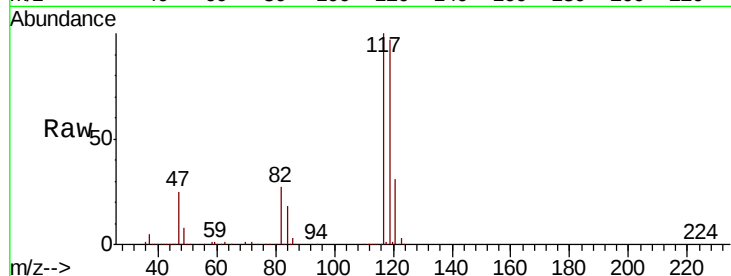
Tgt Ion:117 Resp: 1859103

Ion Ratio Lower Upper

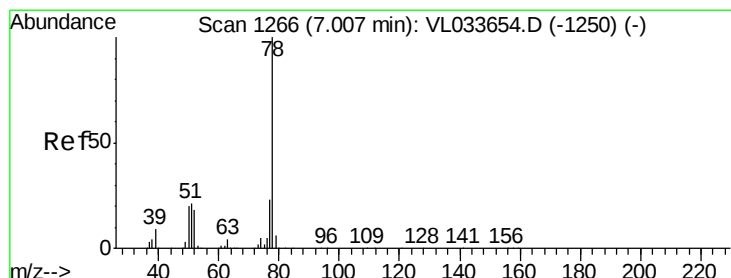
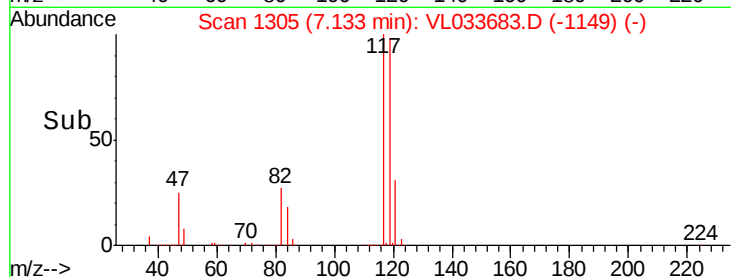
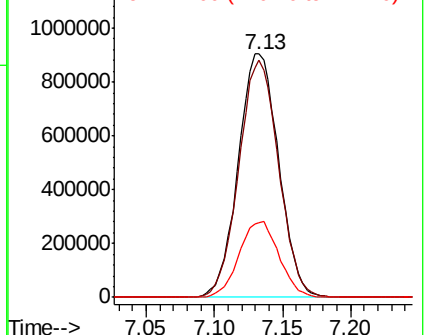
117 100

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

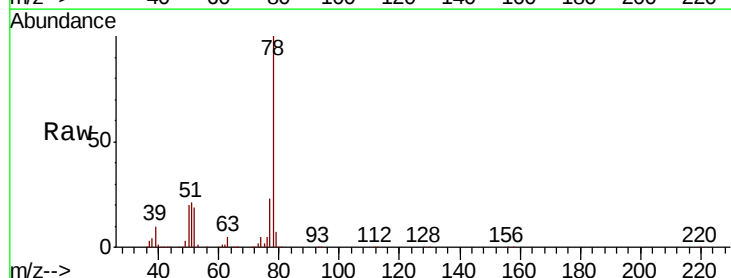
Tgt Ion: 78 Resp: 1979507

Ion Ratio Lower Upper

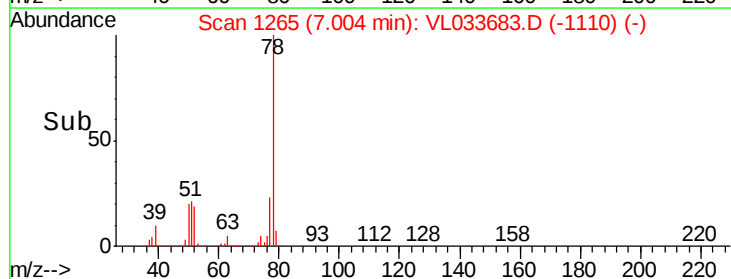
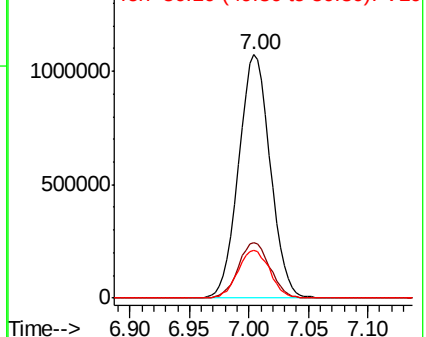
78 100

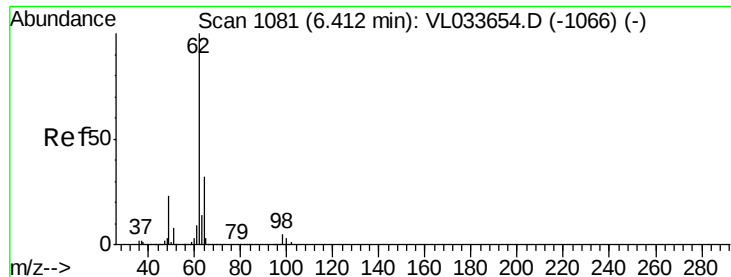
77 22.9 18.2 27.2

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 :

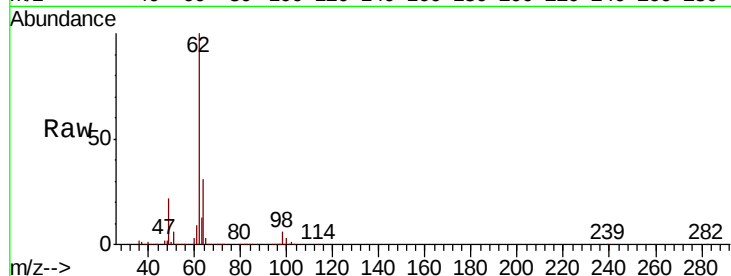
VSTDCCC010

Tgt 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

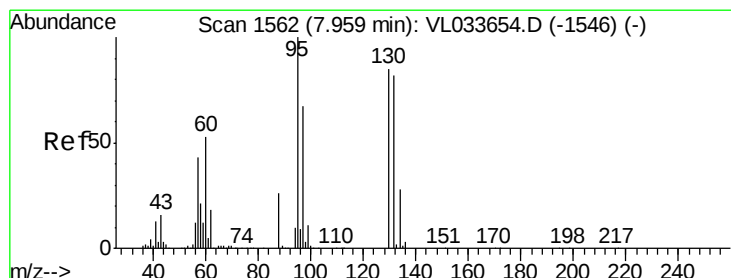
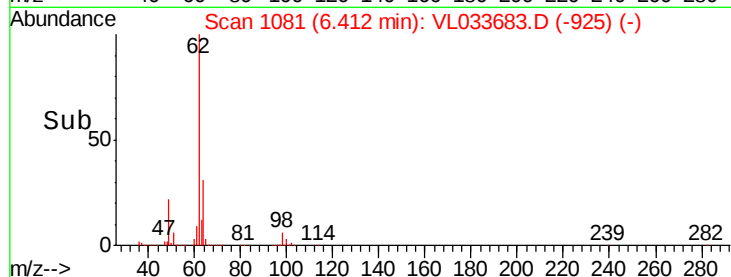
600000

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

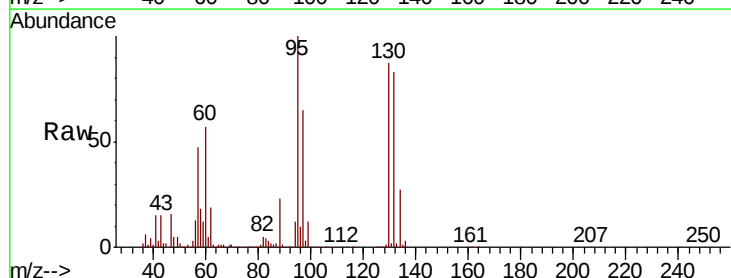
Ion Ratio Lower Upper

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

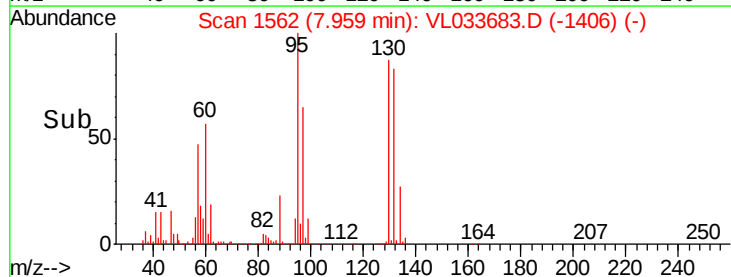
600000

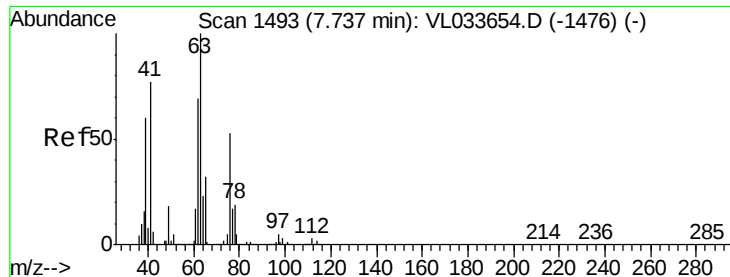
400000

200000

0

Time-->

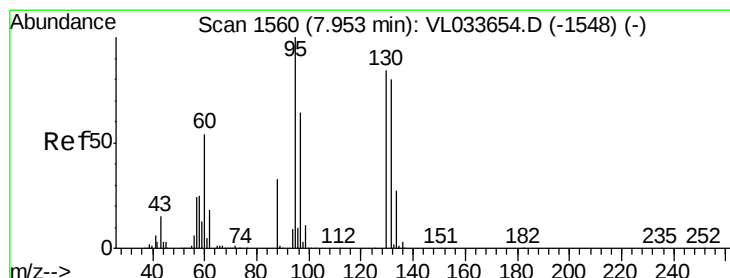
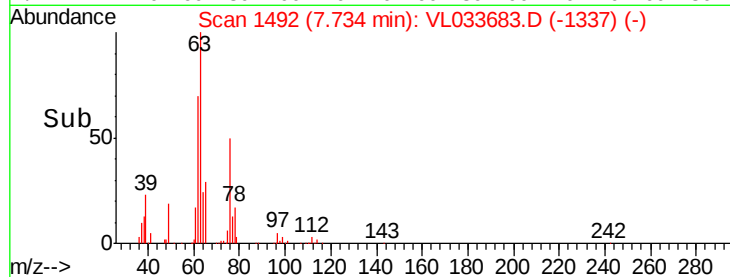
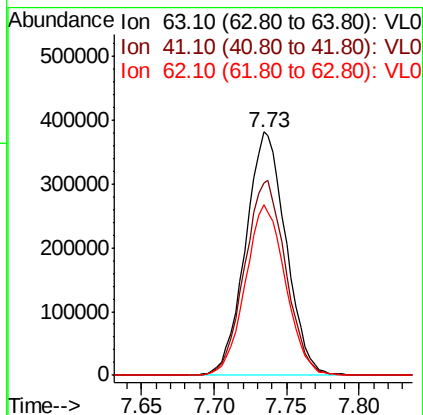
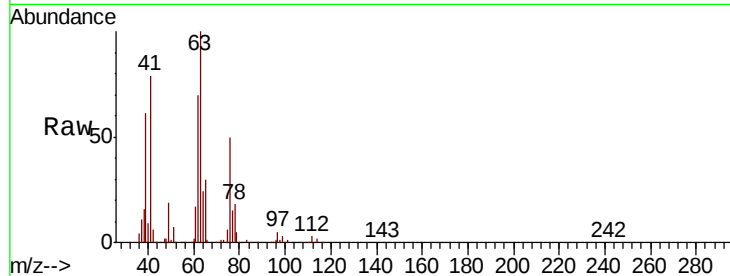




#39
 1,2-Dichloropropane
 Concen: 9.901 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

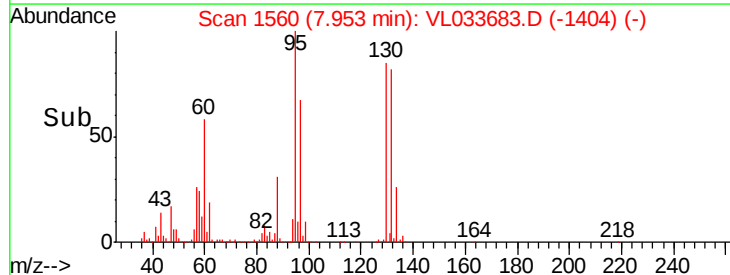
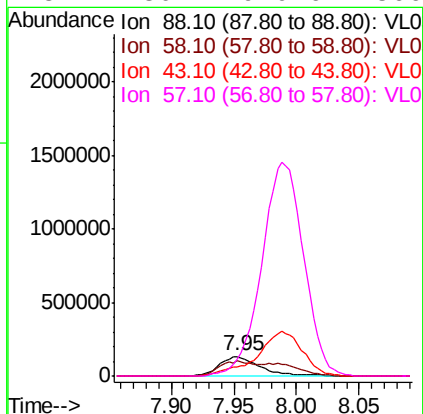
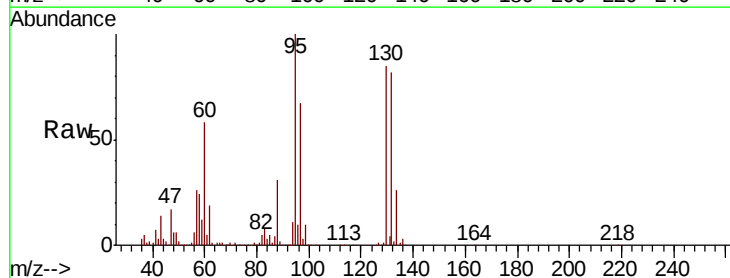
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

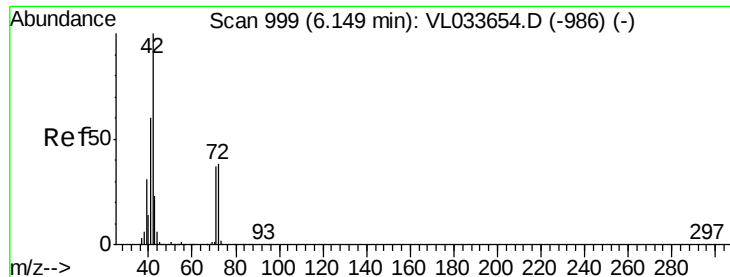
Tgt Ion: 63 Resp: 740101
 Ion Ratio Lower Upper
 63 100
 41 78.8 61.6 92.4
 62 69.9 55.0 82.6



#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

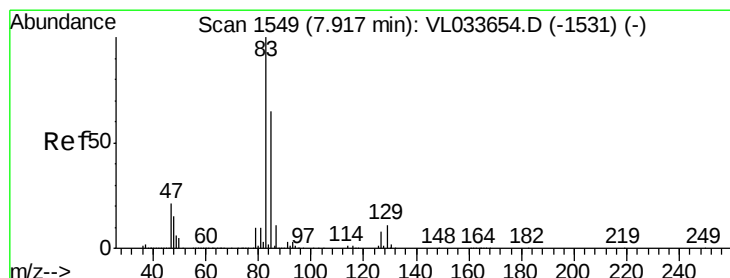
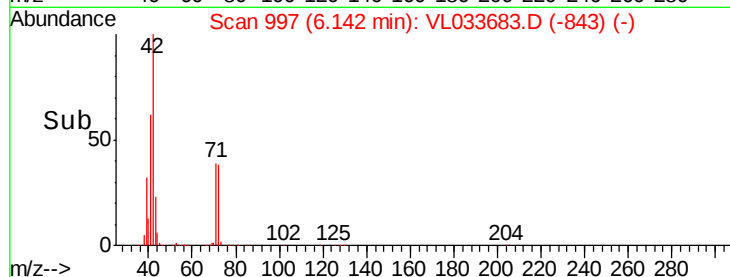
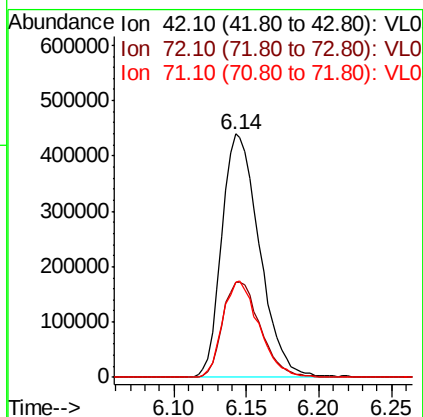
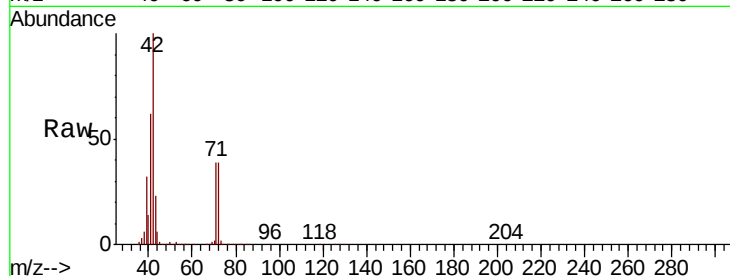




#41
Tetrahydrofuran
Concen: 10.725 ppbv
RT: 6.14 min Scan# 997
Delta R.T. -0.01 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

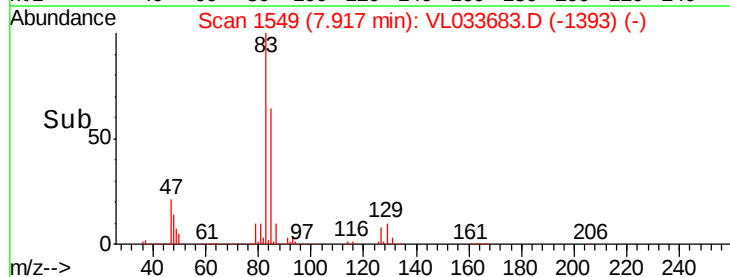
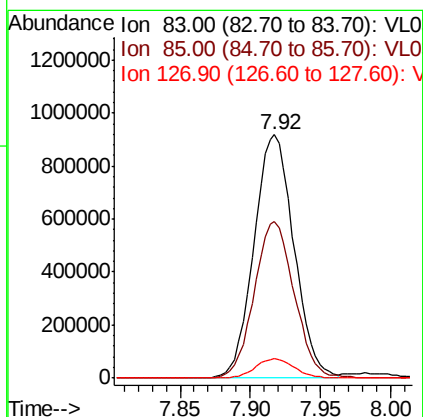
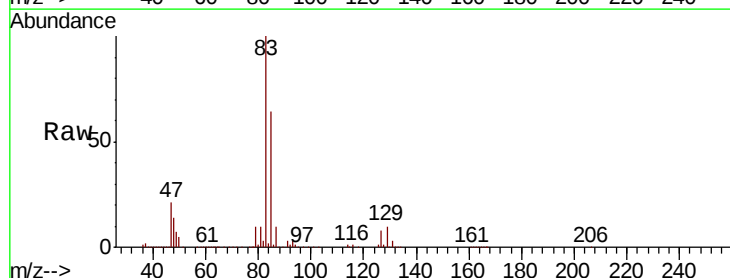
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

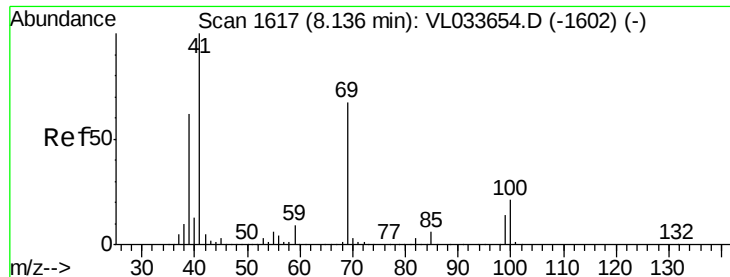
Tgt Ion: 42 Resp: 793822
Ion Ratio Lower Upper
42 100
72 39.5 31.6 47.4
71 38.3 30.6 46.0



#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

Methyl Methacrylate

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

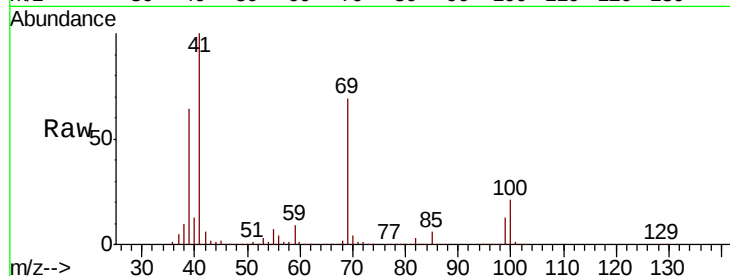
Tgt Ion: 69 Resp: 811509

Ion Ratio Lower Upper

69 100

41 147.6 116.6 175.0

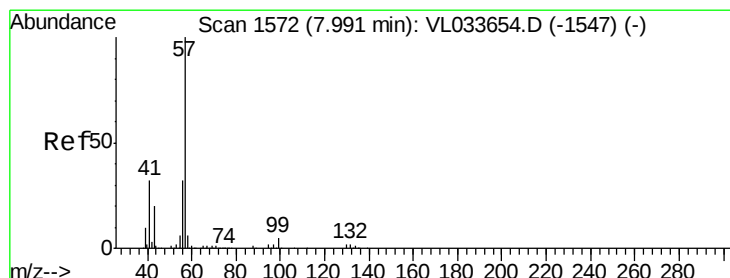
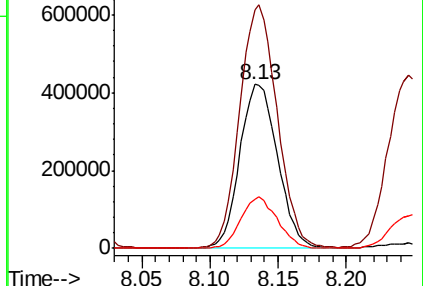
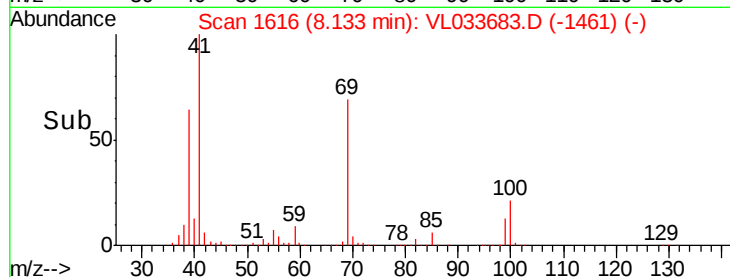
100 30.3 24.6 37.0



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#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

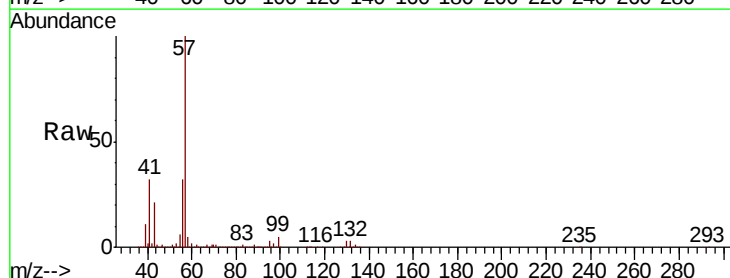
Tgt Ion: 57 Resp: 3392123

Ion Ratio Lower Upper

57 100

41 32.7 25.7 38.5

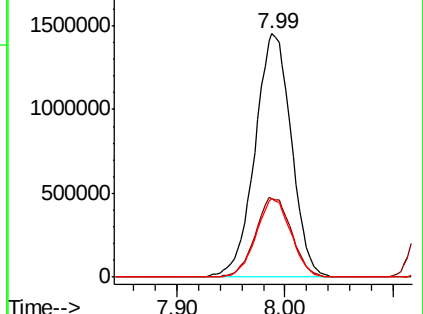
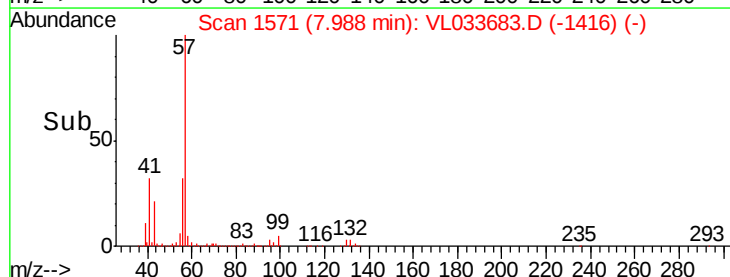
56 30.9 25.0 37.6

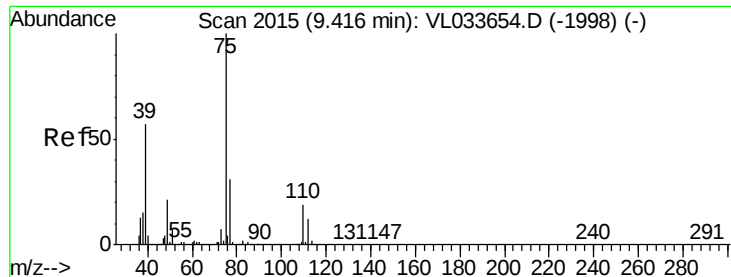


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#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 :

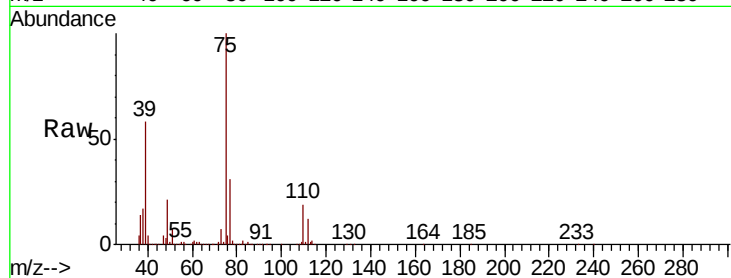
VSTDCCC010

Tgt 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

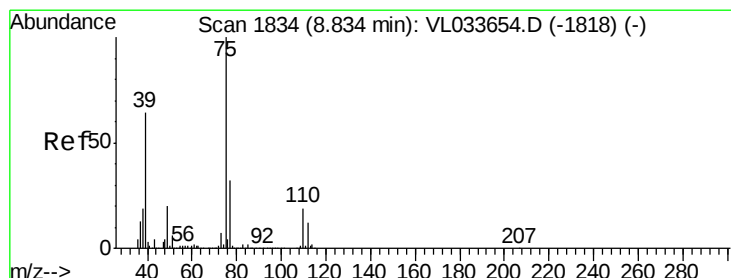
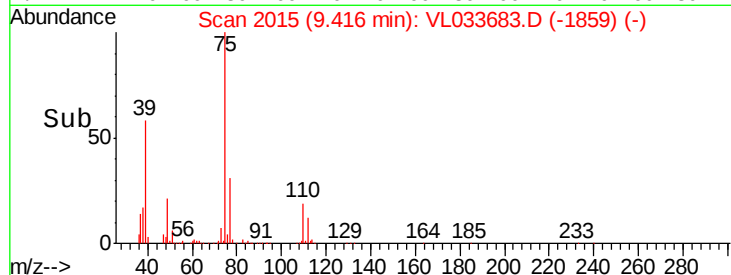
600000

400000

200000

0

Time-->



#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

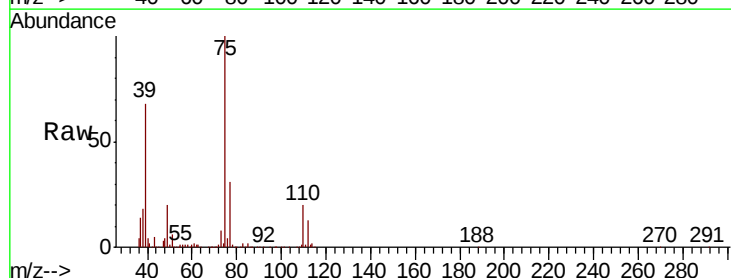
Tgt Ion: 75 Resp: 1259297

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

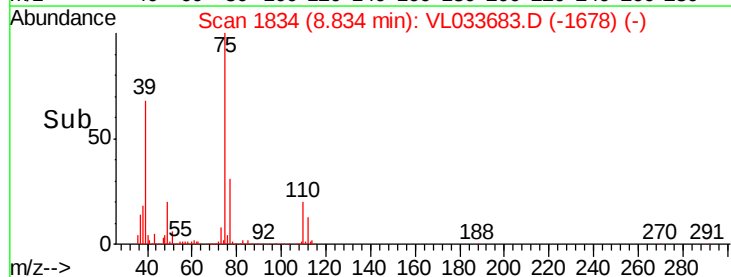
600000

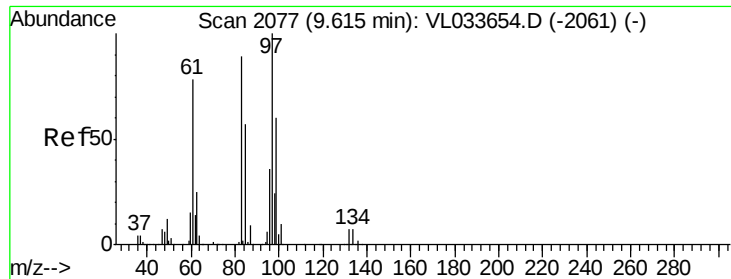
400000

200000

0

Time-->

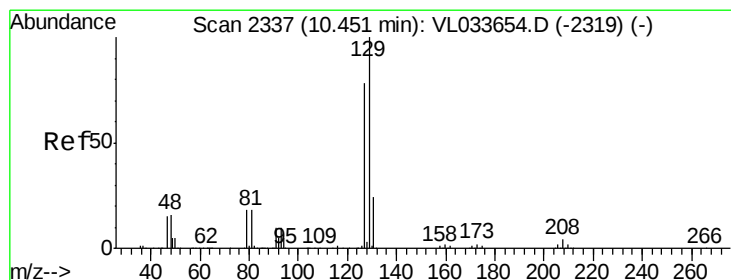
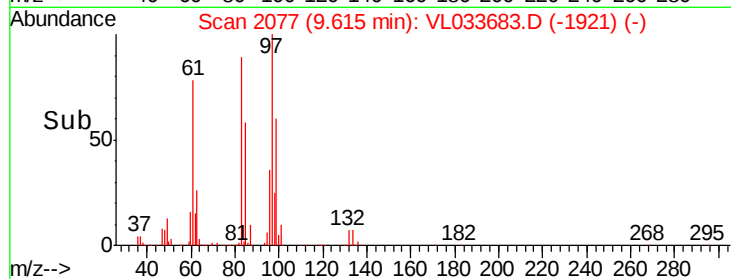
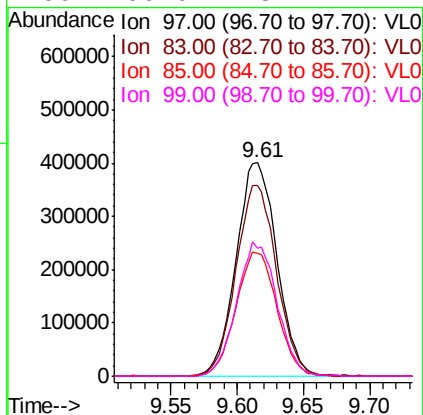
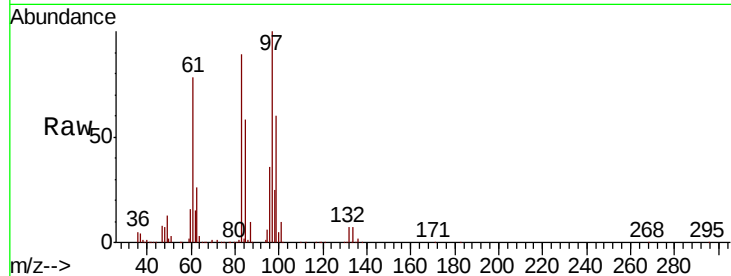




#47
 1,1,2-Trichloroethane
 Concen: 9.974 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

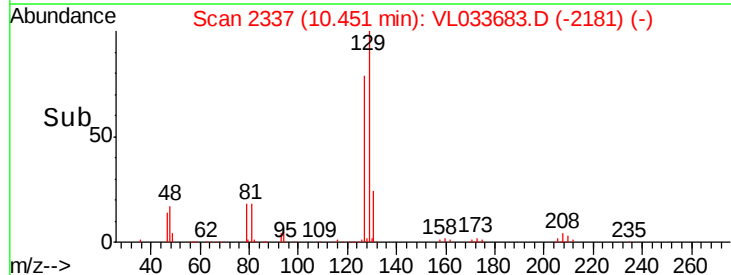
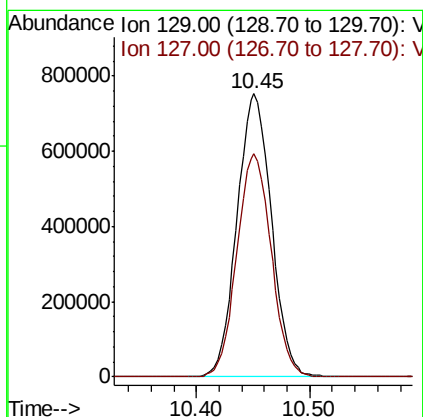
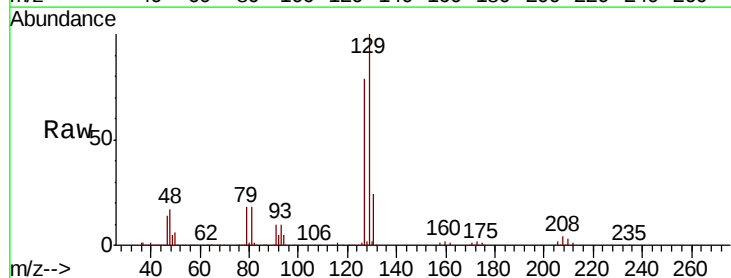
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

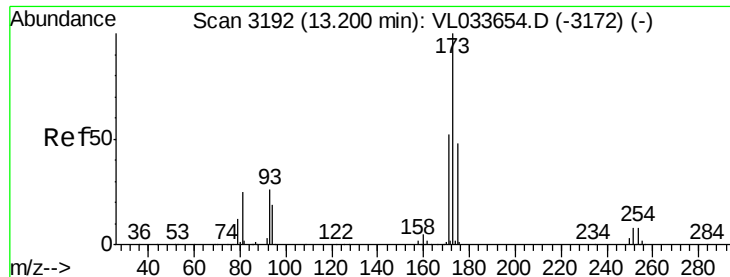
Tgt Ion: 97 Resp: 856163
 Ion Ratio Lower Upper
 97 100
 83 89.2 70.9 106.3
 85 57.8 45.8 68.6
 99 60.0 48.2 72.4



#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





#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

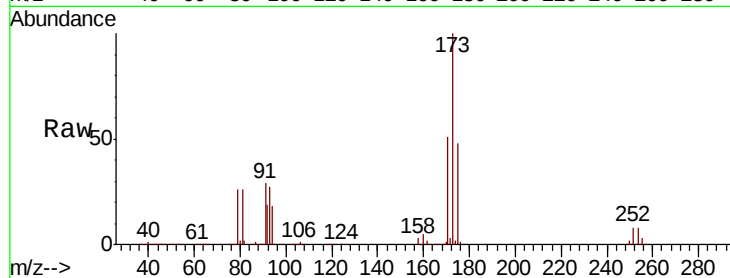
Tgt Ion:173 Resp: 1432132

Ion Ratio Lower Upper

173 100

175 48.7 39.3 58.9

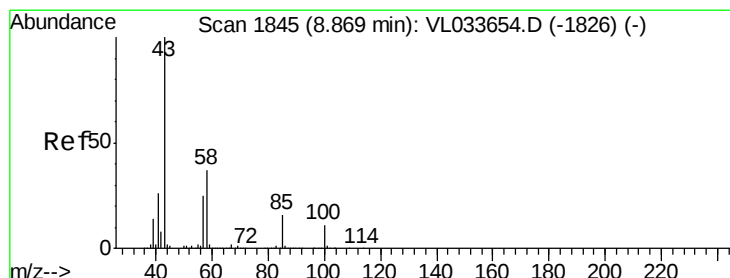
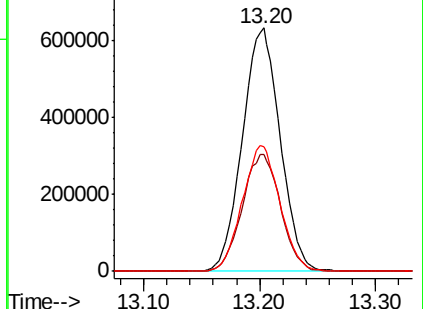
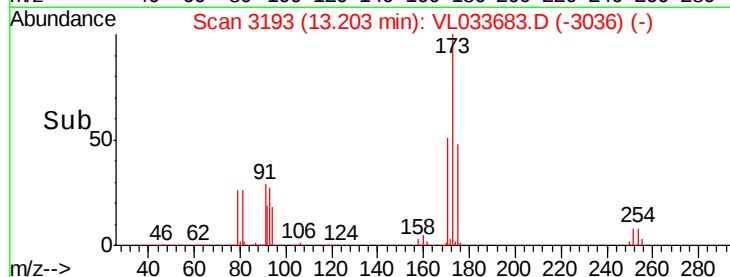
171 51.5 41.5 62.3



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

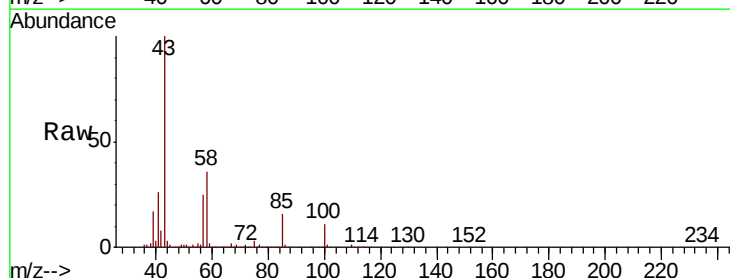
Acq: 7 May 2019 15:34

Tgt Ion: 43 Resp: 2207658

Ion Ratio Lower Upper

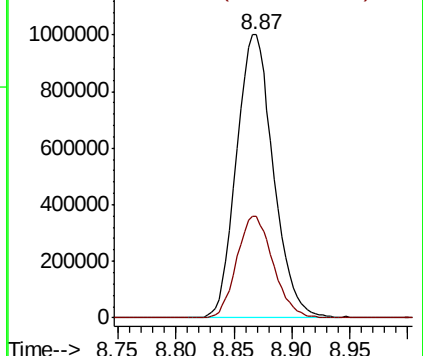
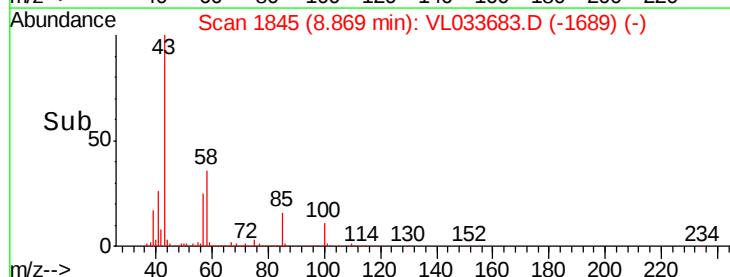
43 100

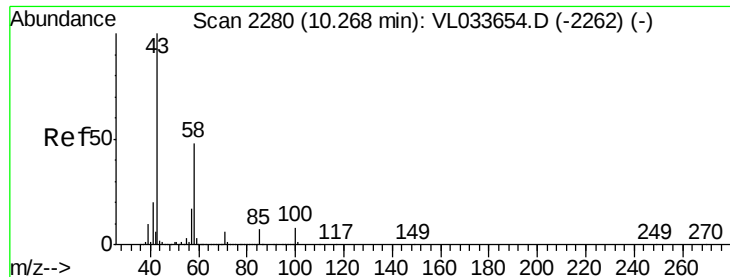
58 35.4 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

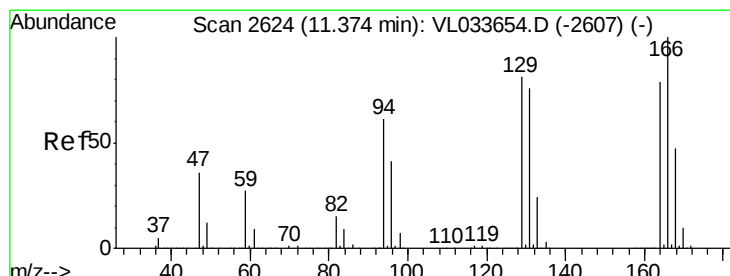
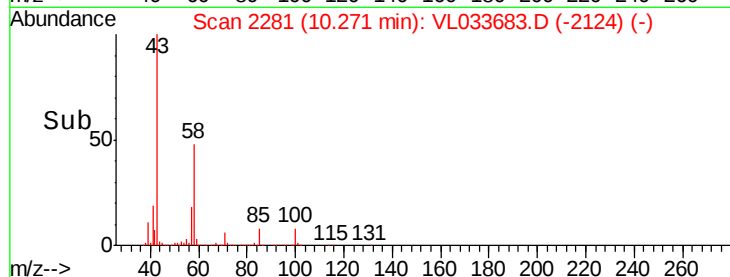
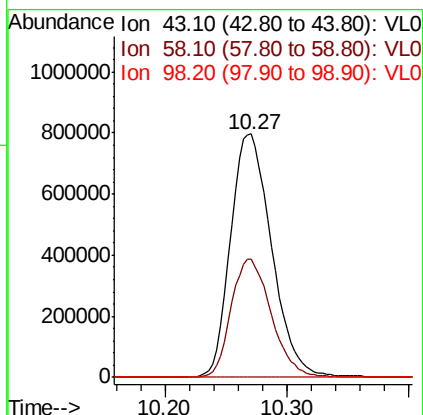
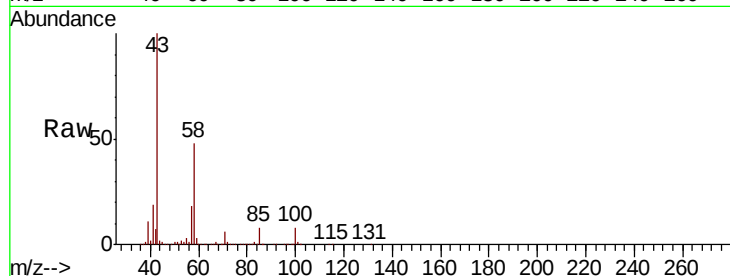




#51
2-Hexanone
Concen: 11.026 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. 0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

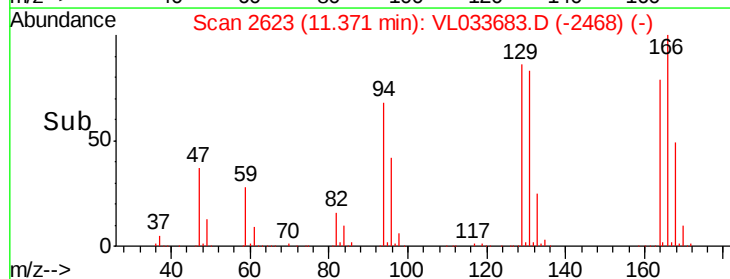
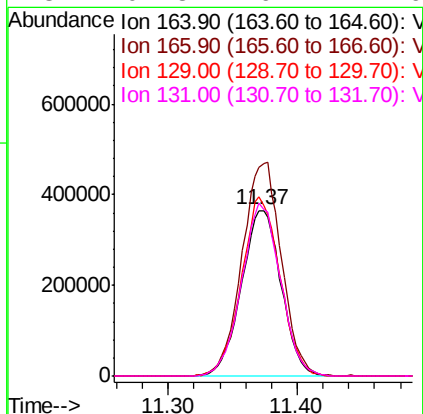
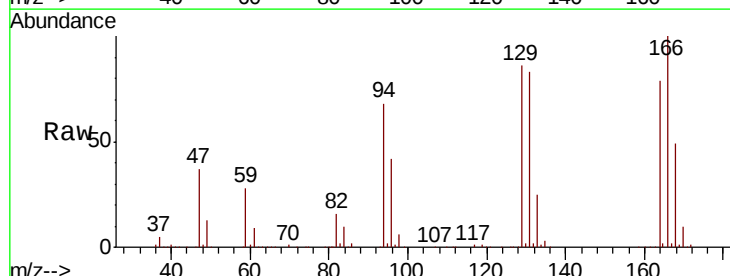
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

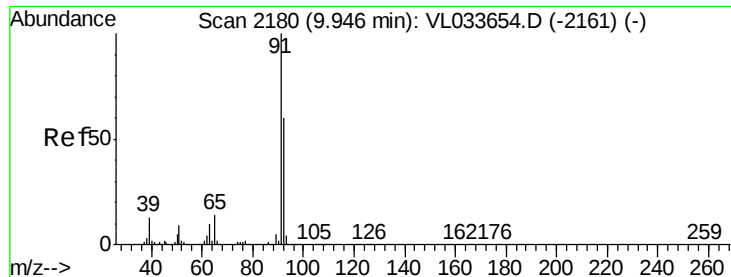
Tgt Ion: 43 Resp: 1852609
Ion Ratio Lower Upper
43 100
58 47.8 38.2 57.4
98 0.4 0.2 0.4#



#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





#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 :

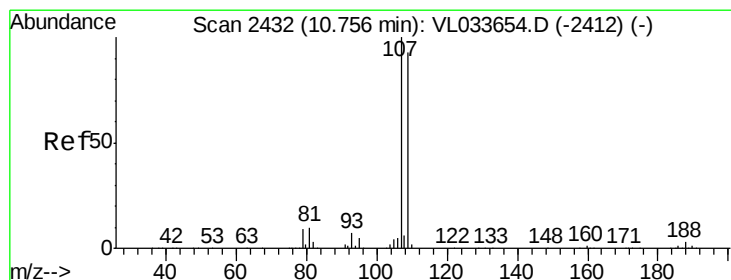
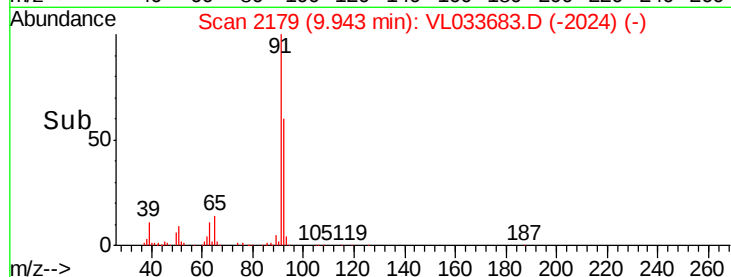
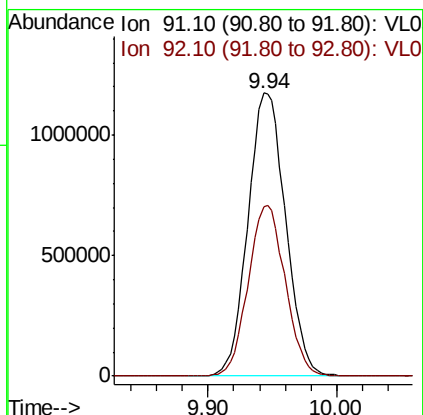
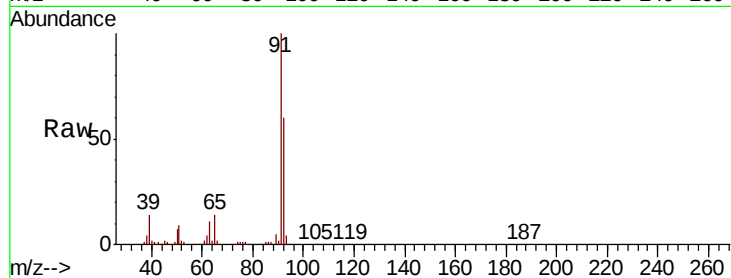
VSTDCCC010

Tgt 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

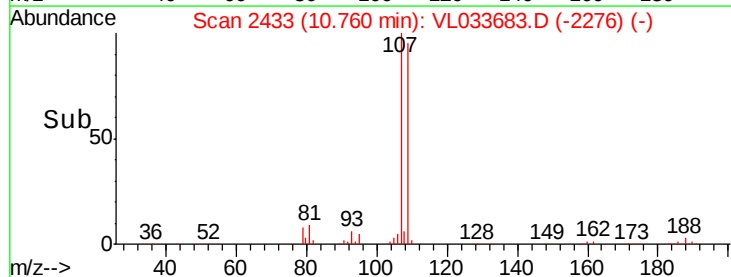
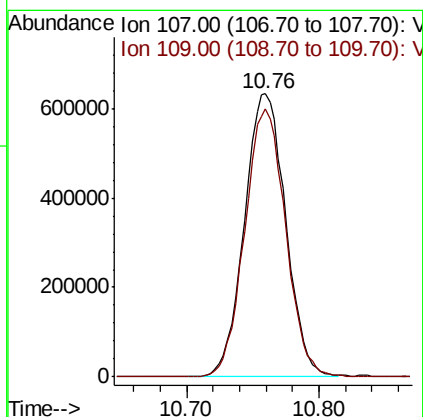
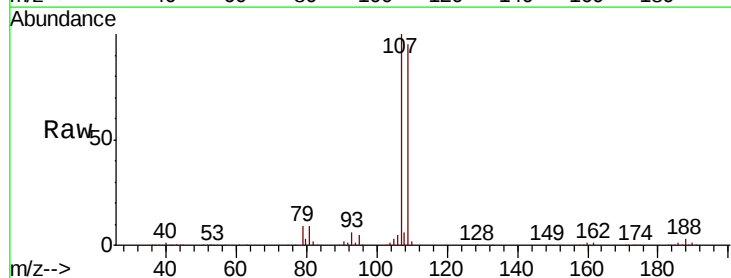
Acq: 7 May 2019 15:34

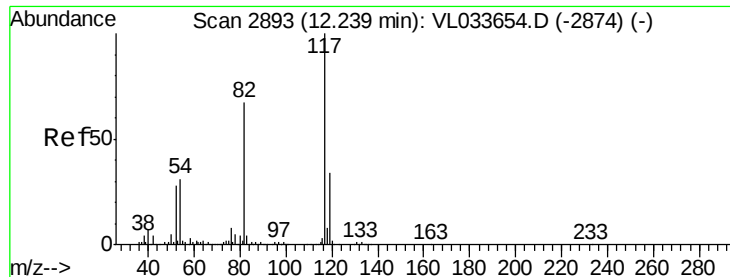
Tgt Ion: 107 Resp: 1366072

Ion Ratio Lower Upper

107 100

109 94.6 74.6 111.8

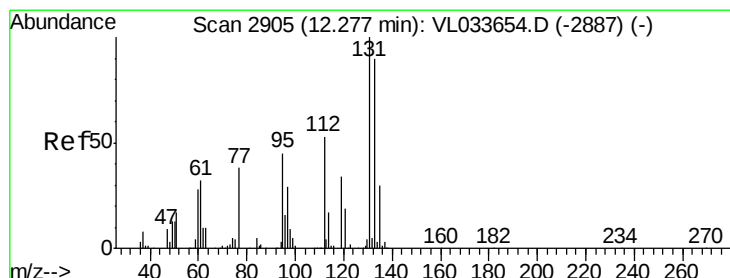
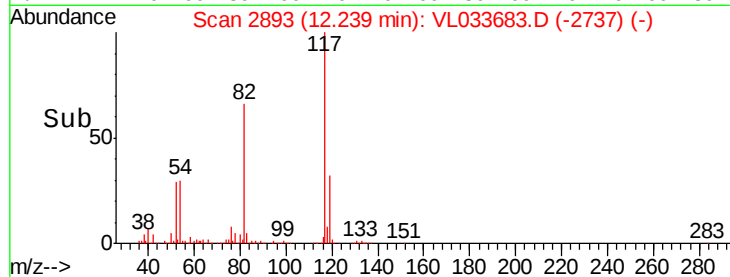
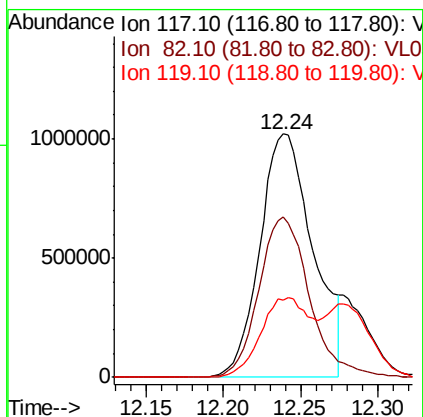
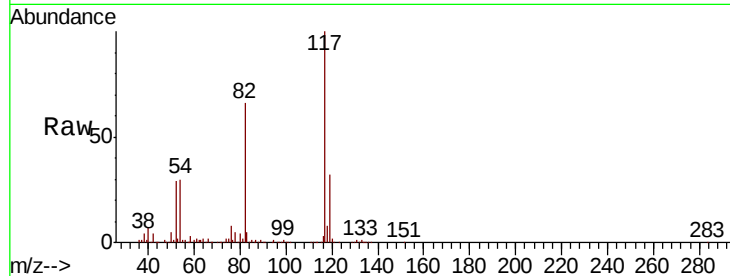




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

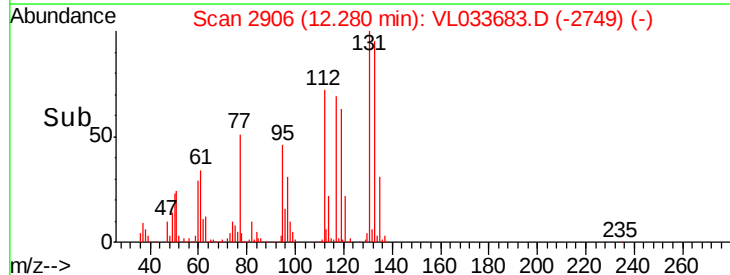
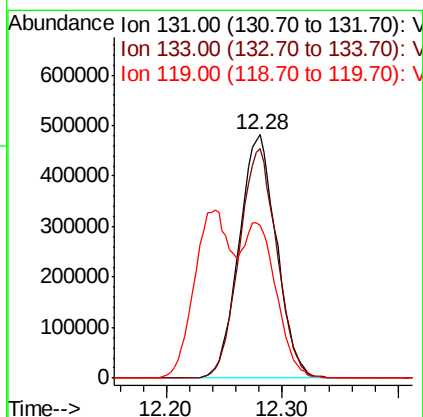
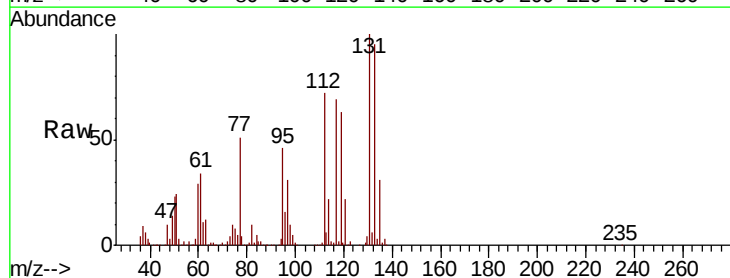
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

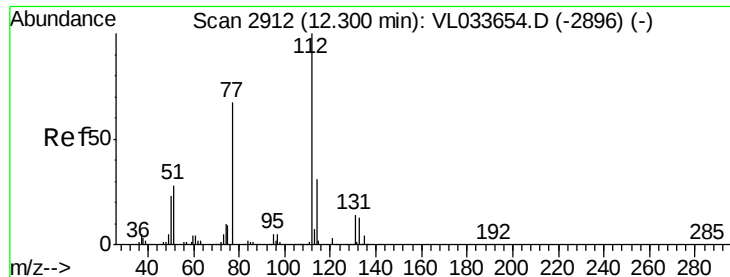
Tgt Ion:117 Resp: 2443910
Ion Ratio Lower Upper
117 100
82 63.1 49.7 74.5
119 32.8 24.8 37.2



#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

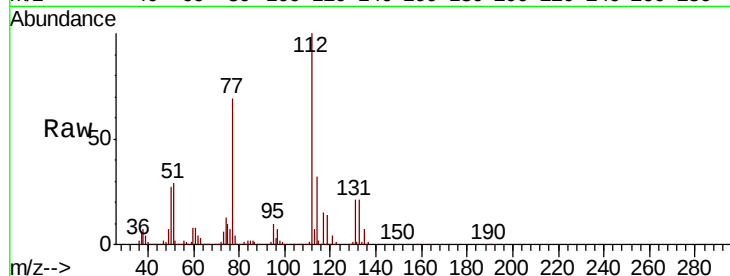
Tgt Ion:112 Resp: 1879247

Ion Ratio Lower Upper

112 100

77 68.4 54.4 81.6

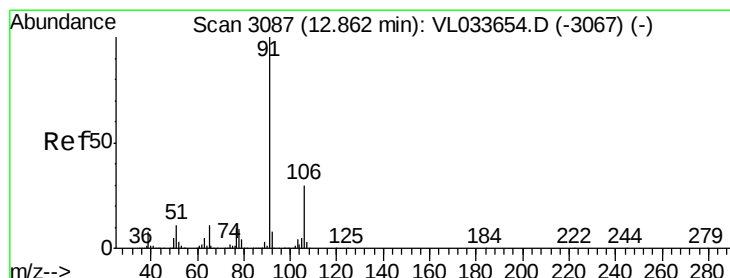
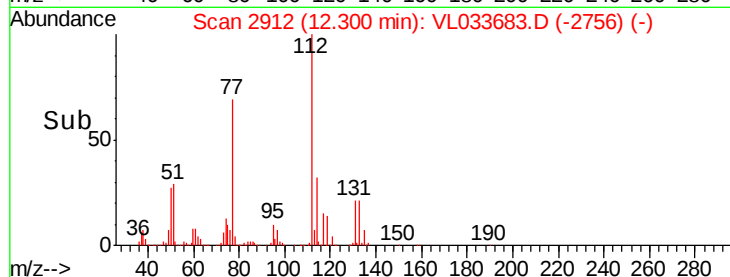
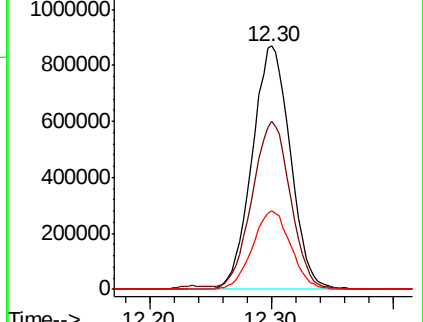
114 32.2 28.2 34.4



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: 10.424 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VL033683.D

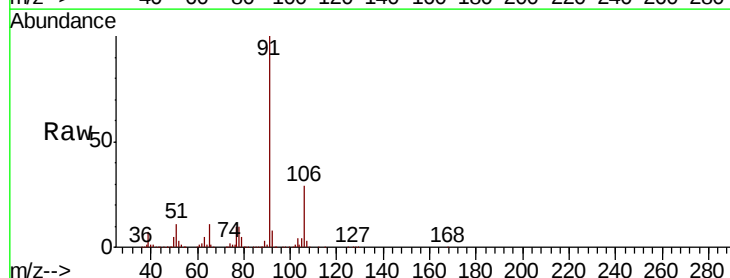
Acq: 7 May 2019 15:34

Tgt Ion: 91 Resp: 3322074

Ion Ratio Lower Upper

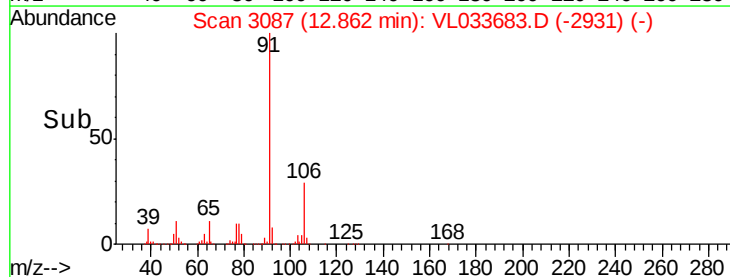
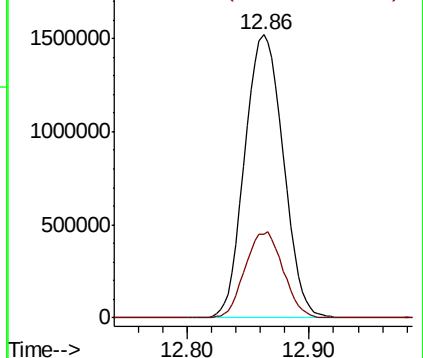
91 100

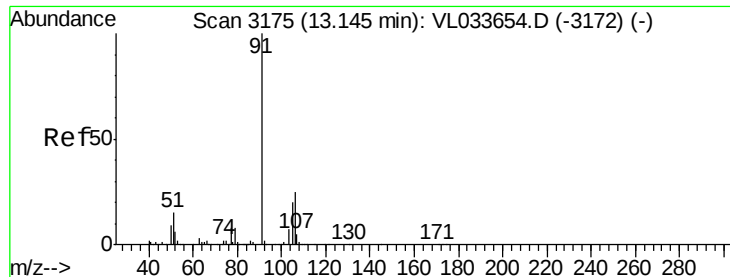
106 29.4 23.7 35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

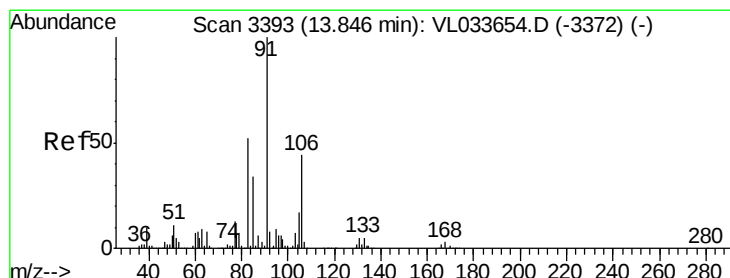
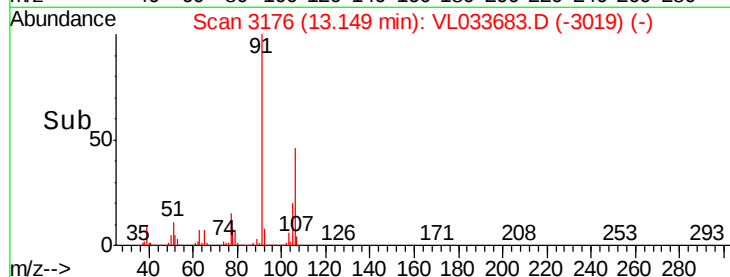
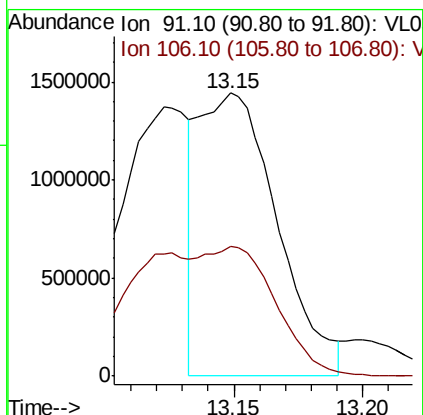
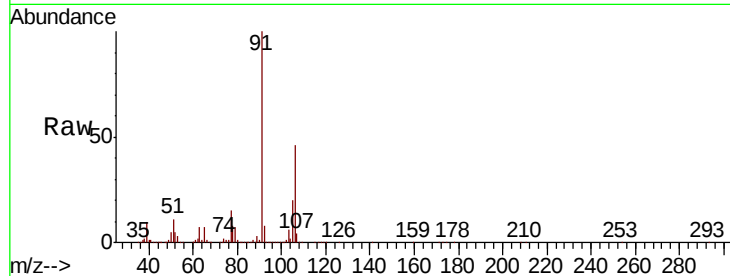




#59
m/p-Xylene
Concen: 10.804 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

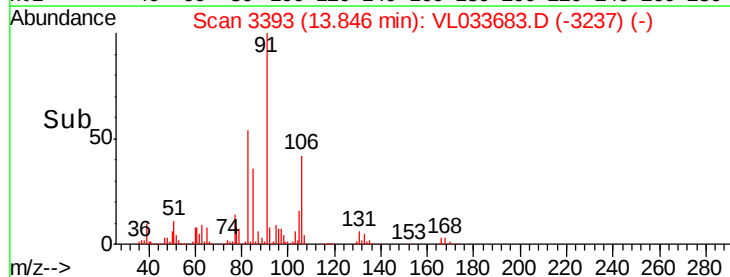
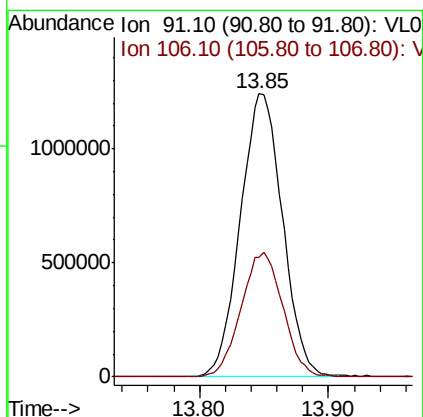
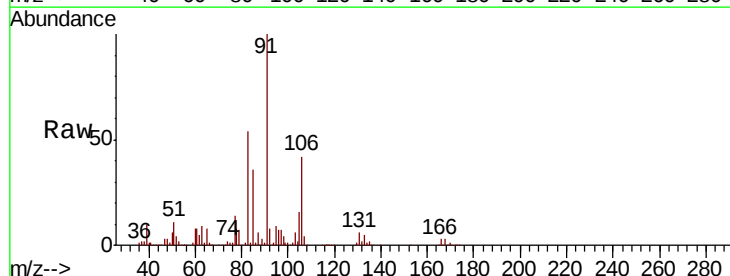
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

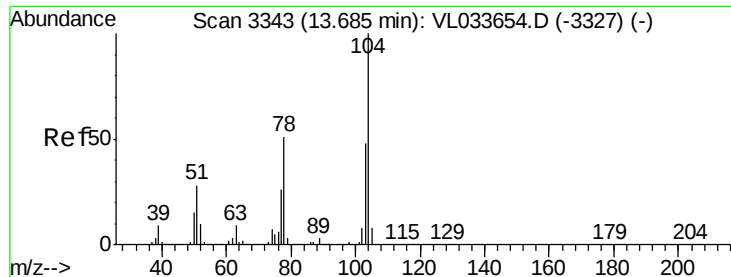
Tgt Ion: 91 Resp: 3032864
Ion Ratio Lower Upper
91 100
106 83.8 36.2 54.2#



#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





#61

Styrene

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

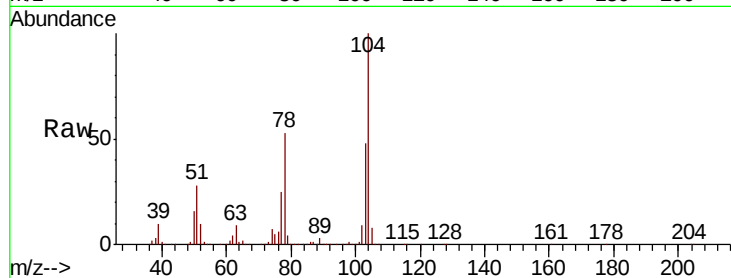
Tgt Ion:104 Resp: 2118810

Ion Ratio Lower Upper

104 100

78 53.9 43.0 64.6

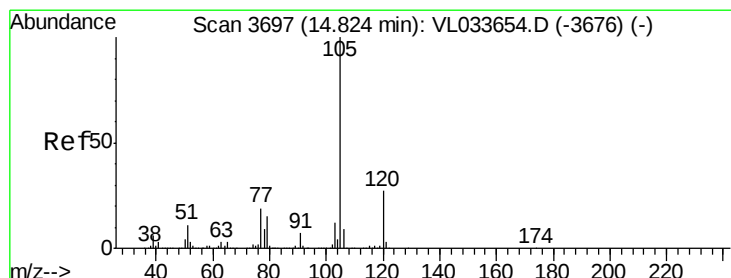
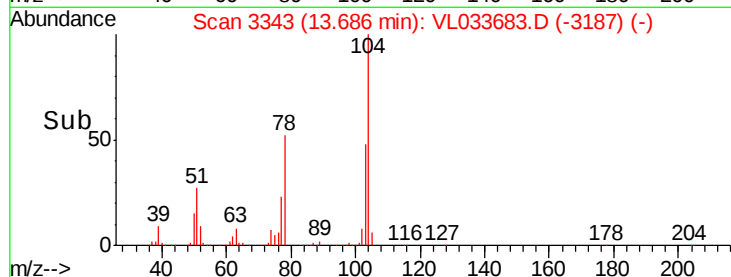
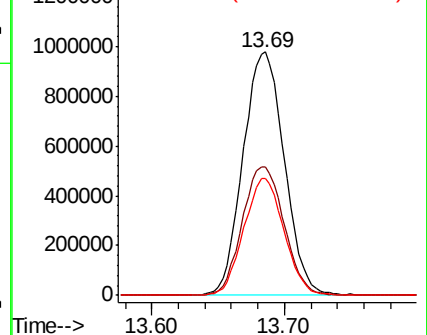
103 46.8 38.1 57.1



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

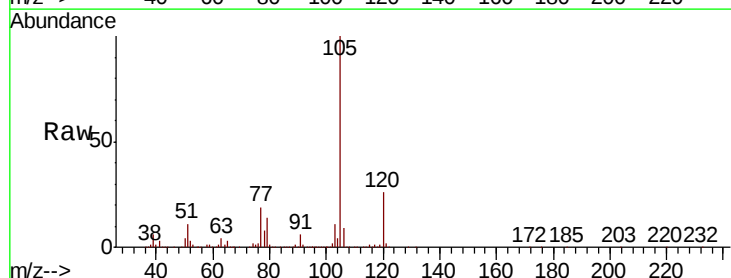
Acq: 7 May 2019 15:34

Tgt Ion:105 Resp: 3831602

Ion Ratio Lower Upper

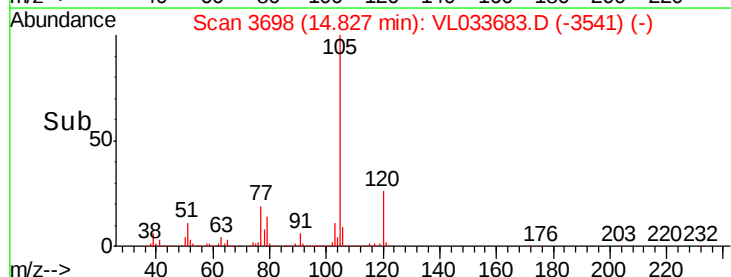
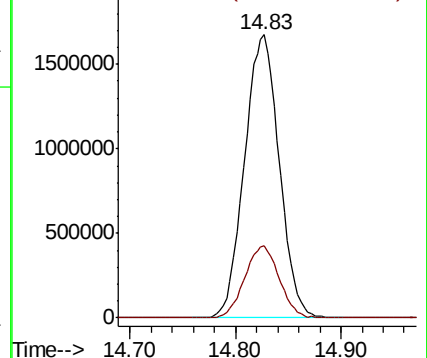
105 100

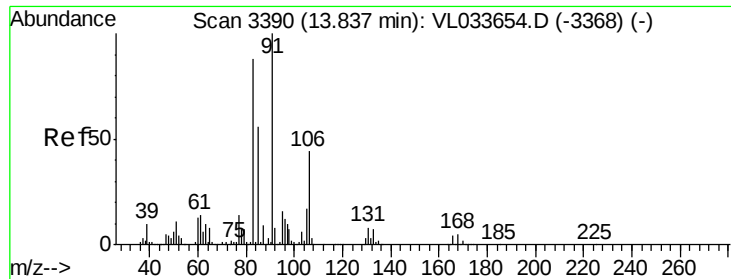
120 25.3 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

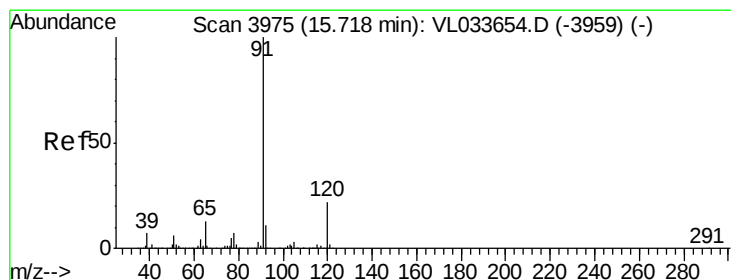
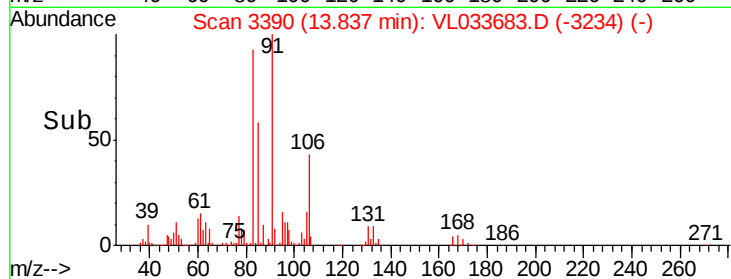
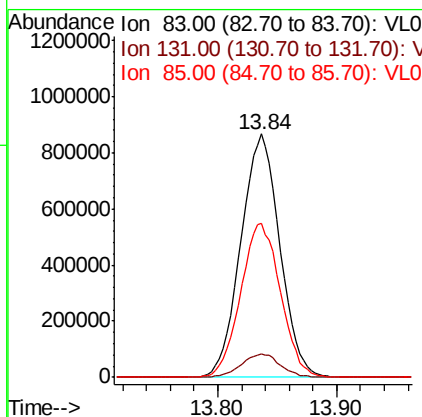
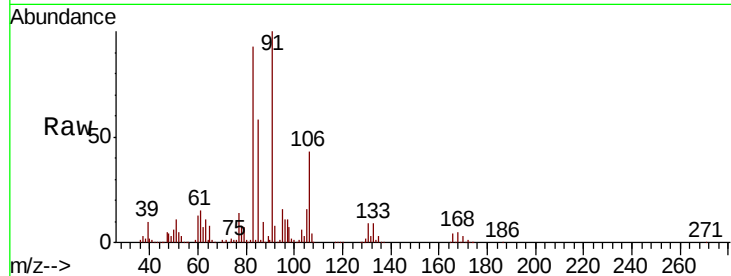




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.495 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

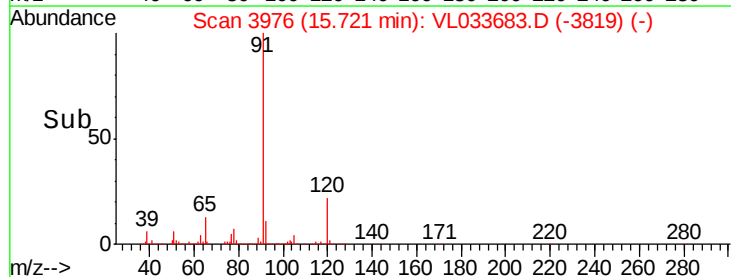
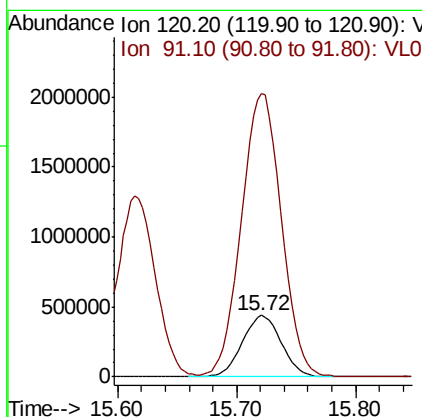
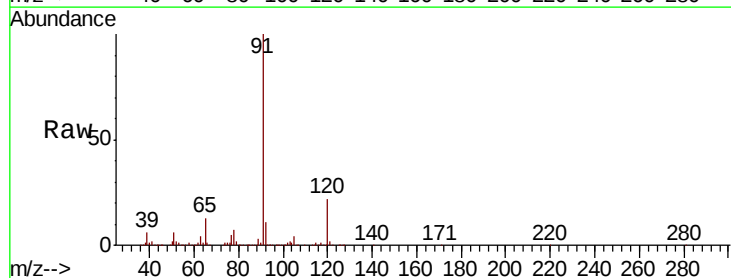
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

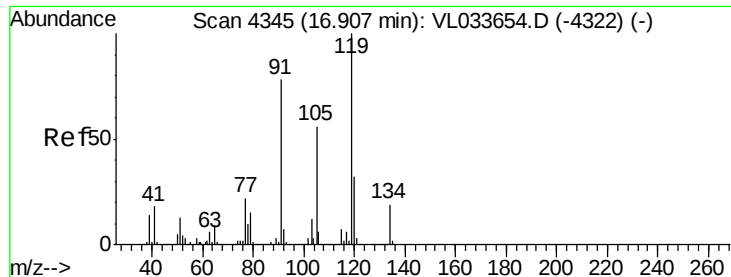
Tgt Ion: 83 Resp: 1963046
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.3
 85 64.7 32.5 97.4



#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

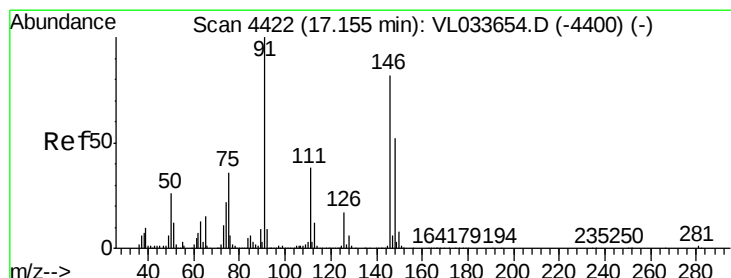
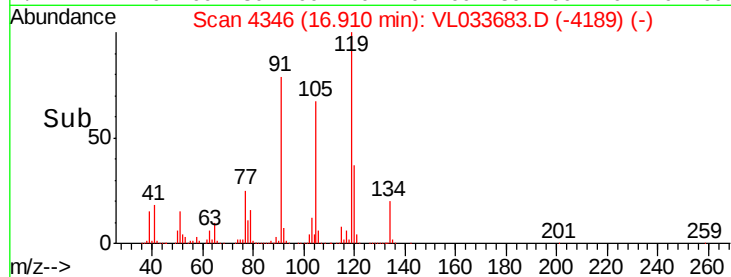
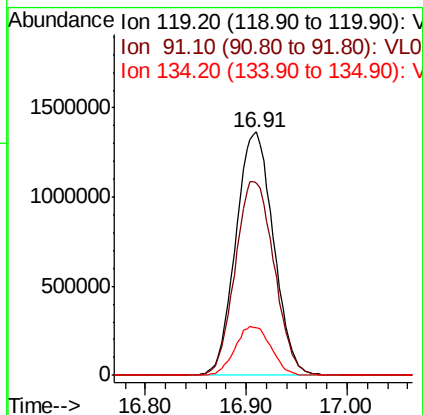
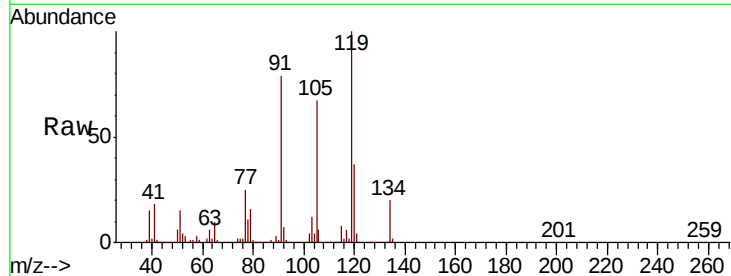




#65
 tert-Butylbenzene
 Concen: 9.922 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

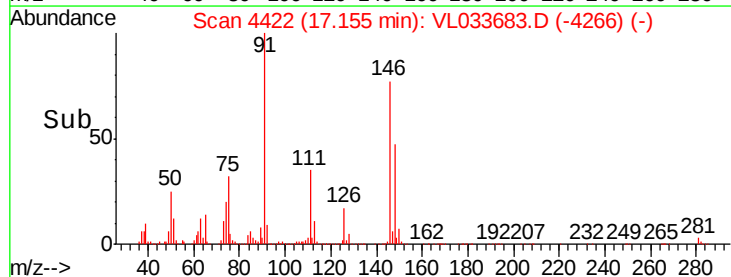
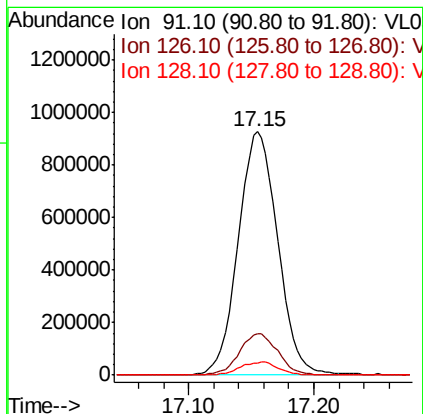
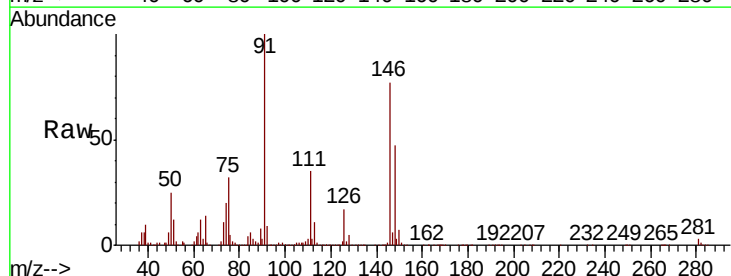
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

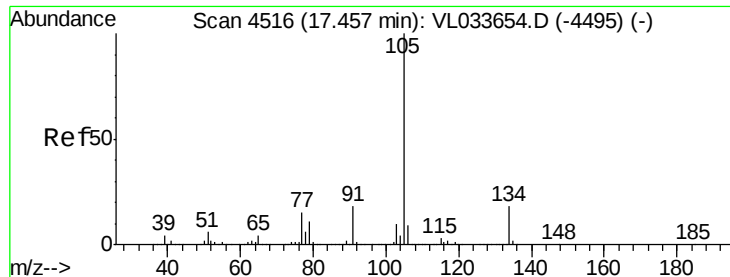
Tgt Ion: 119 Resp: 3530405
 Ion Ratio Lower Upper
 119 100
 91 82.6 65.9 98.9
 134 19.3 15.5 23.3



#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

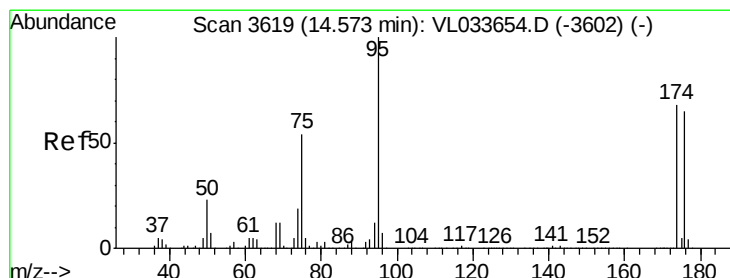
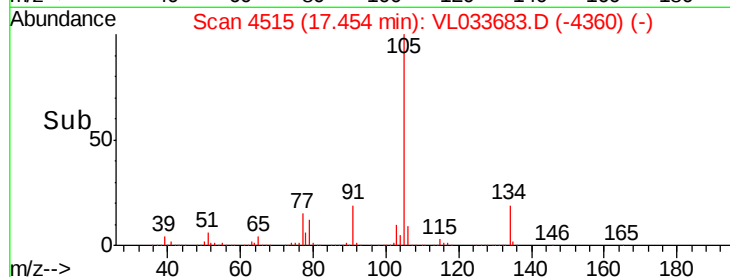
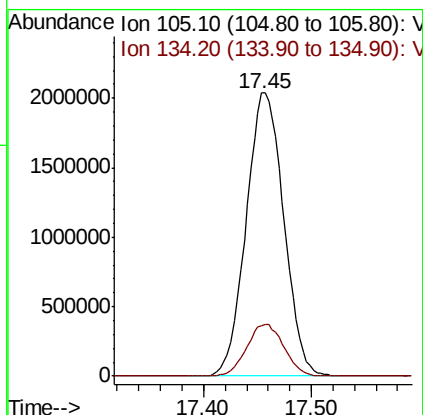
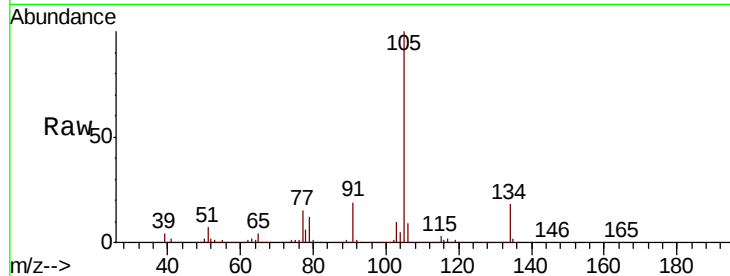




#67
 sec-Butylbenzene
 Concen: 9.916 ppbv
 RT: 17.45 min Scan# 4516
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

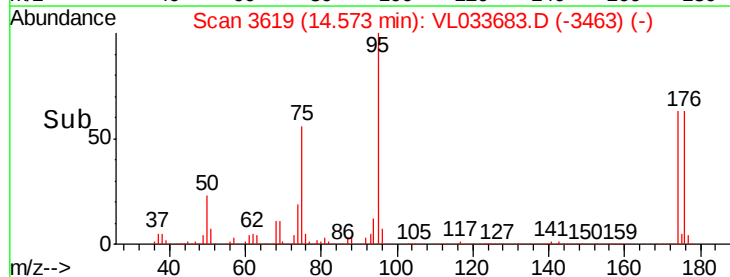
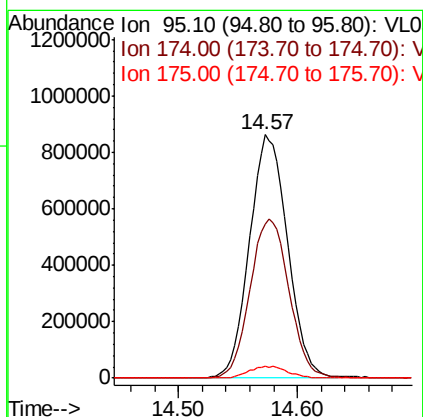
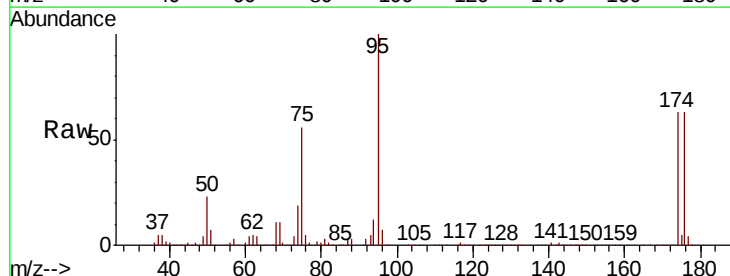
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

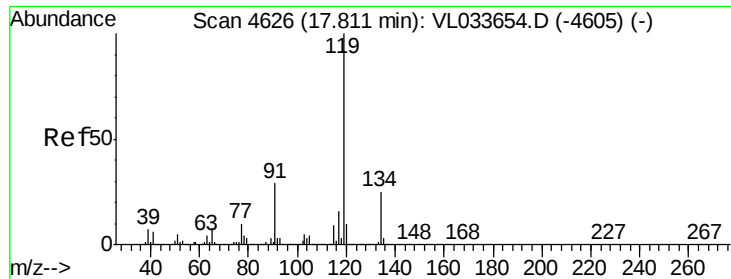
Tgt Ion: 105 Resp: 4922714
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 22.0



#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

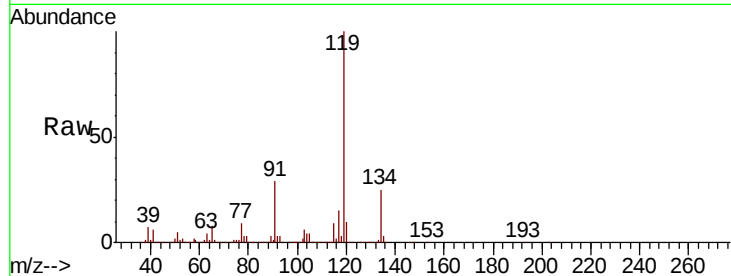




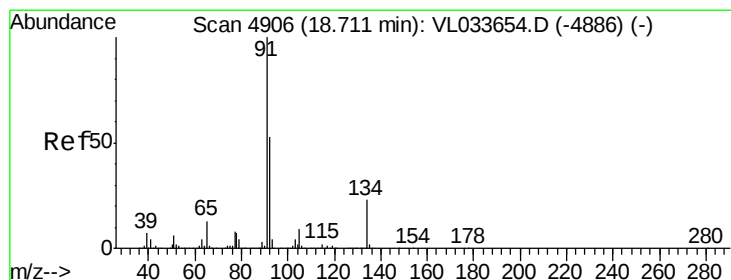
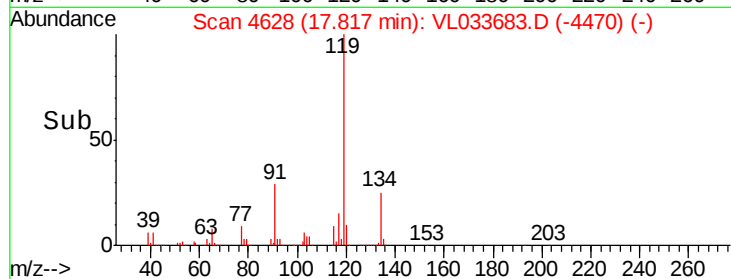
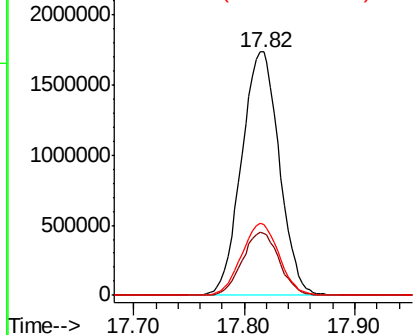
#69
p-Isopropyltoluene
Concen: 10.055 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. 0.01 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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

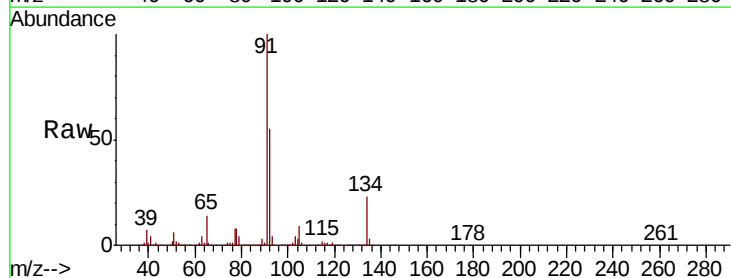


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

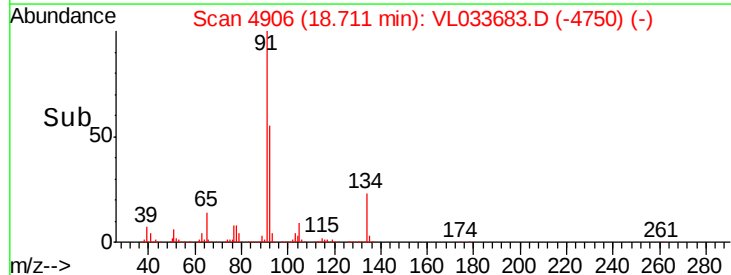
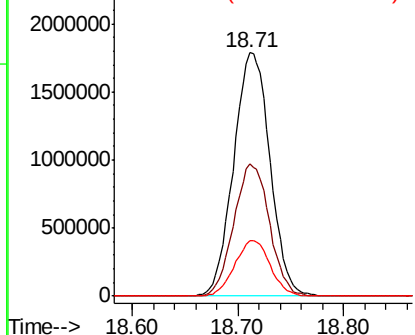


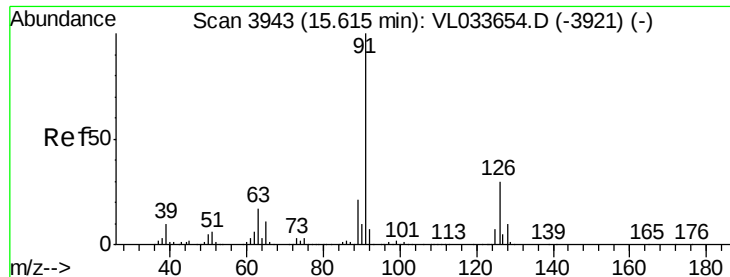
#70
n-Butylbenzene
Concen: 9.843 ppbv
RT: 18.71 min Scan# 4906
Delta R.T. 0.00 min
Lab File: VL033683.D
Acq: 7 May 2019 15:34

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 :

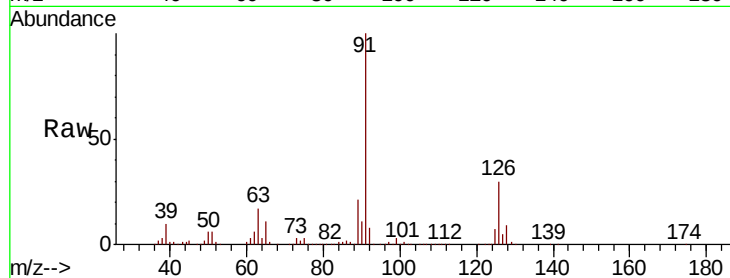
VSTDCCC010

Tgt Ion: 91 Resp: 2922907

Ion Ratio Lower Upper

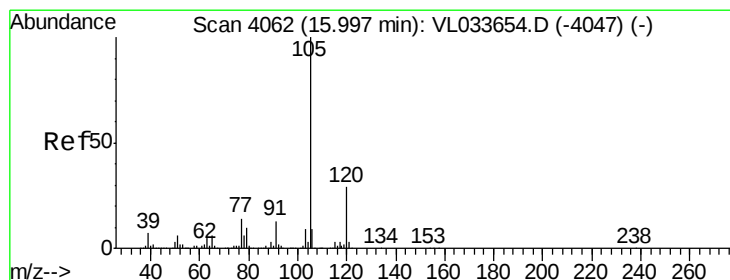
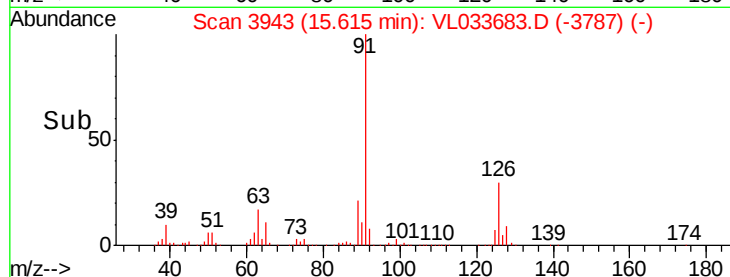
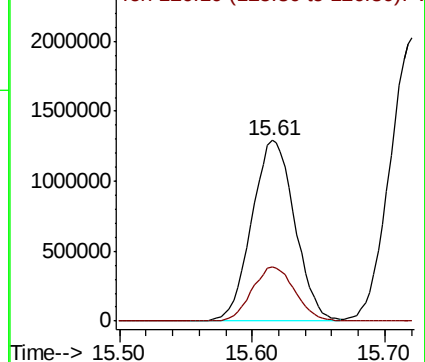
91 100

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

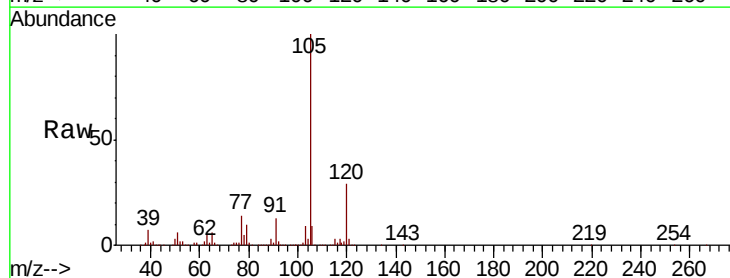
Ion Ratio Lower Upper

105 100

120 28.8 23.0 34.6

91 13.8 10.5 15.7

77 13.9 11.4 17.2

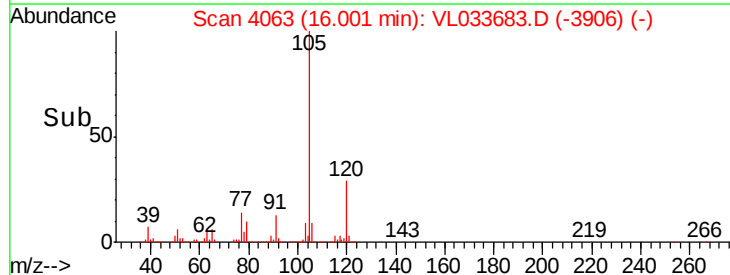
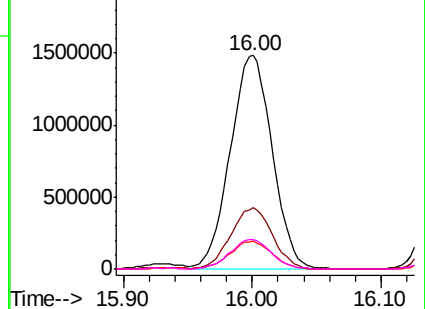


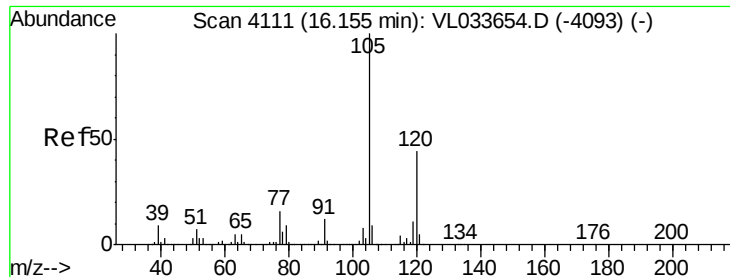
Abundance Ion 105.10 (104.80 to 105.80): V

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

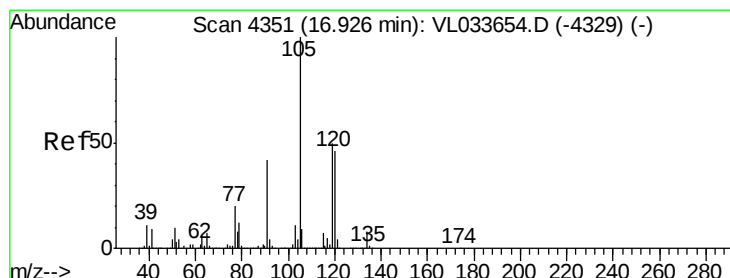
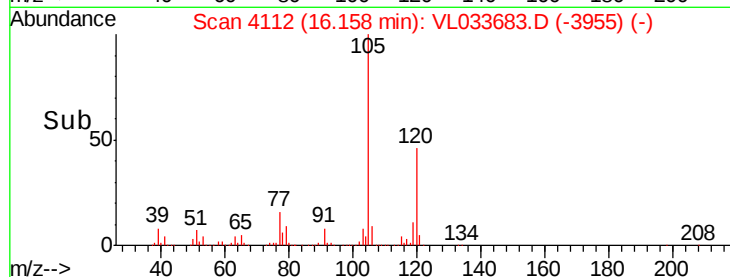
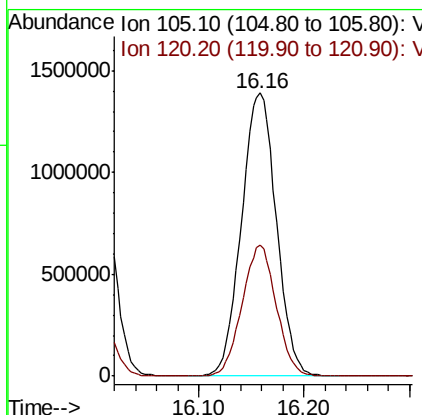
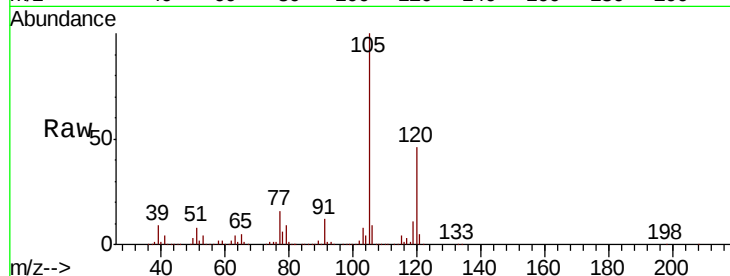




#73
 1,3,5-Trimethylbenzene
 Concen: 9.888 ppbv
 RT: 16.16 min Scan# 4112
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

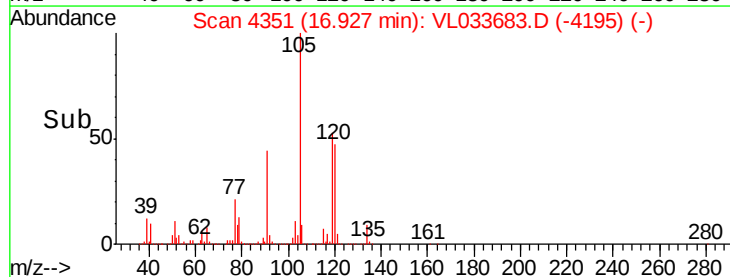
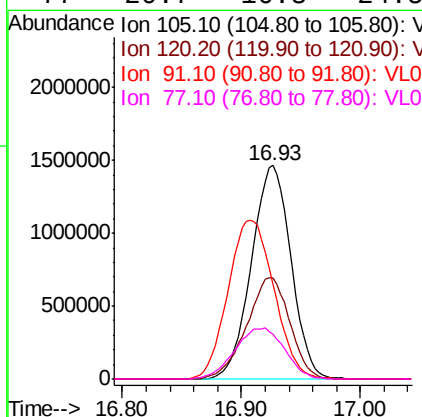
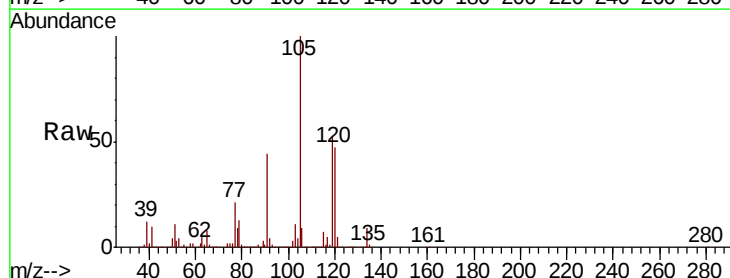
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

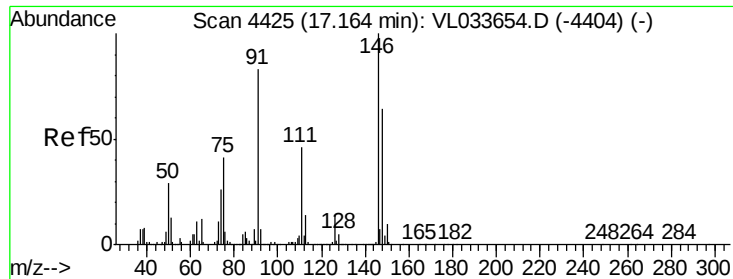
Tgt Ion:105 Resp: 3192388
 Ion Ratio Lower Upper
 105 100
 120 46.3 35.5 53.3



#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





#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

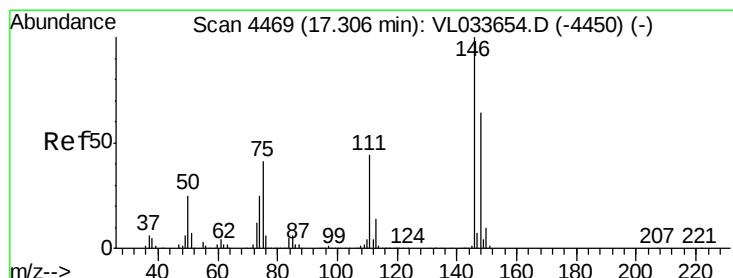
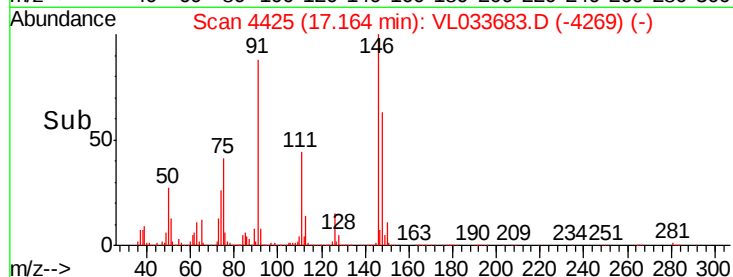
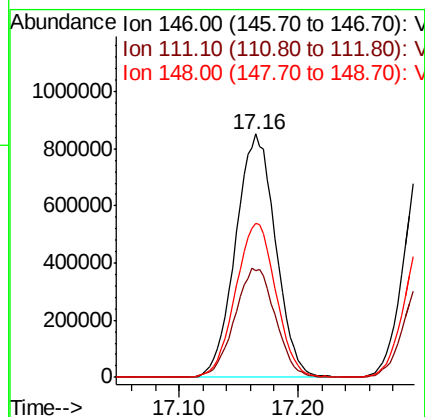
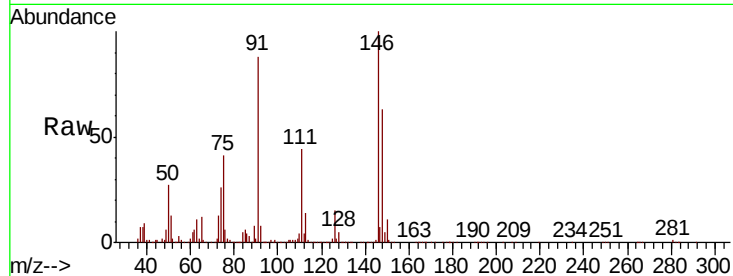
Tgt Ion:146 Resp: 1982208

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

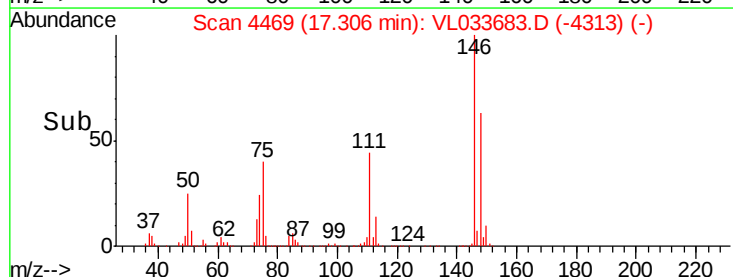
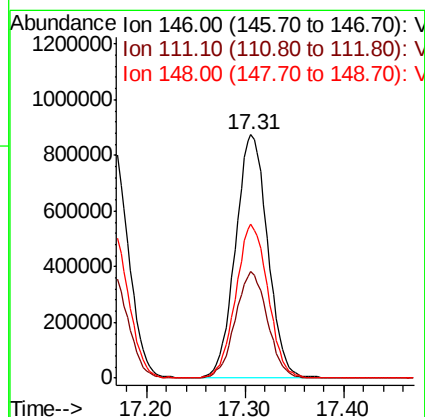
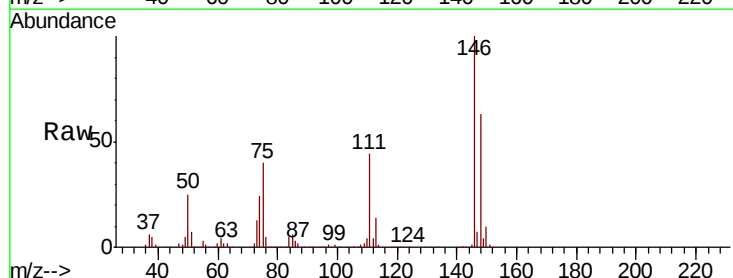
Tgt Ion:146 Resp: 1970103

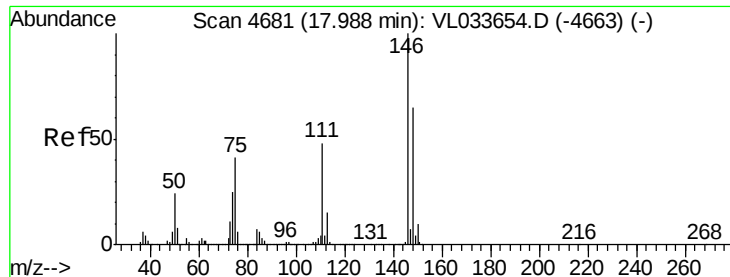
Ion Ratio Lower Upper

146 100

111 43.8 22.0 66.0

148 63.2 32.1 96.5

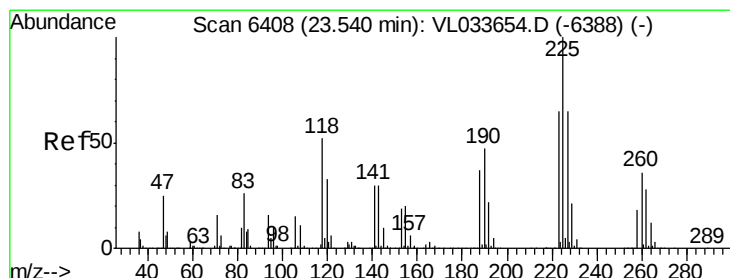
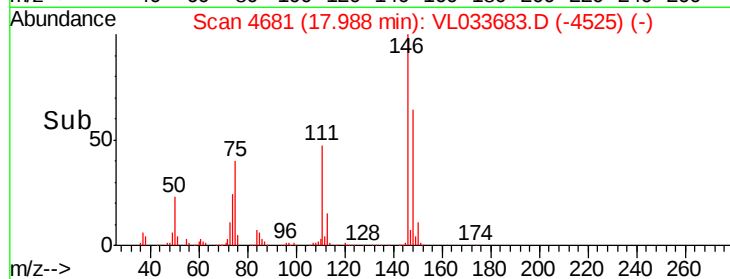
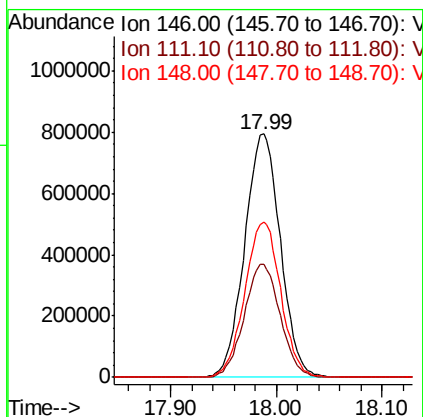
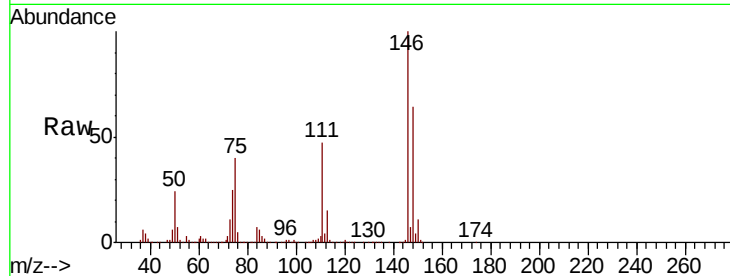




#77
 1,2-Dichlorobenzene
 Concen: 9.336 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. 0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

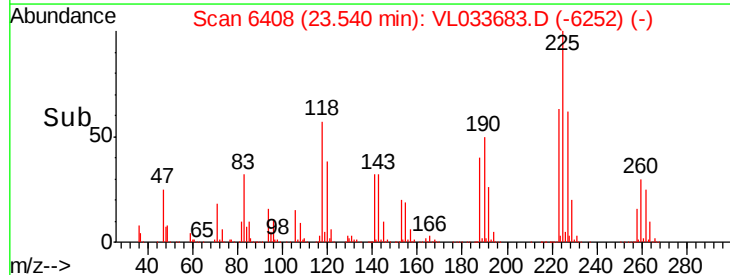
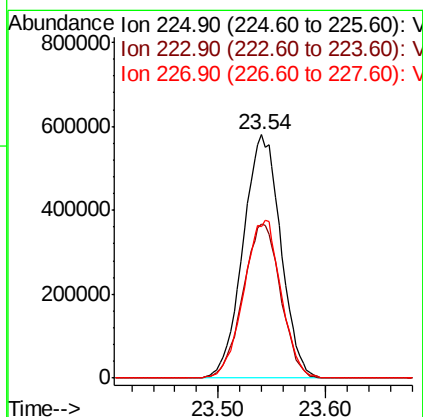
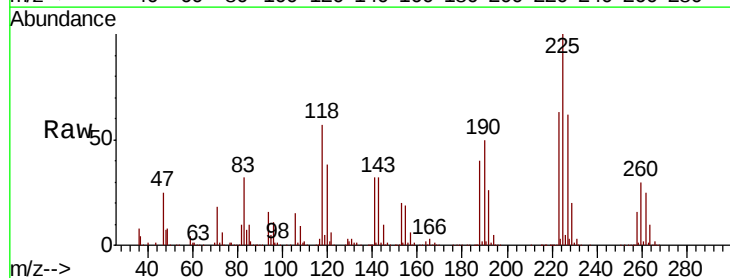
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

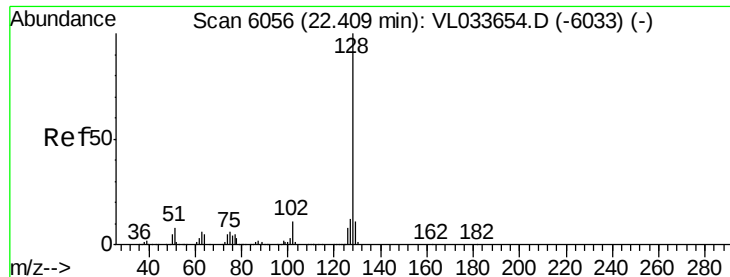
Tgt Ion:146 Resp: 1874895
 Ion Ratio Lower Upper
 146 100
 111 46.9 23.4 70.0
 148 64.2 31.9 95.9



#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

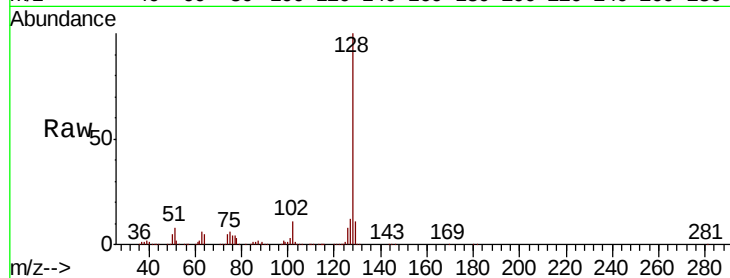
Tgt Ion:128 Resp: 2887903

Ion Ratio Lower Upper

128 100

127 12.1 9.8 14.8

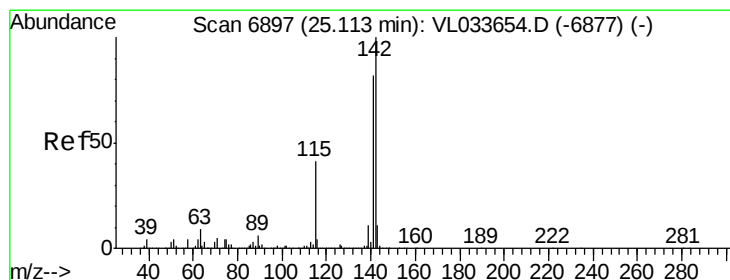
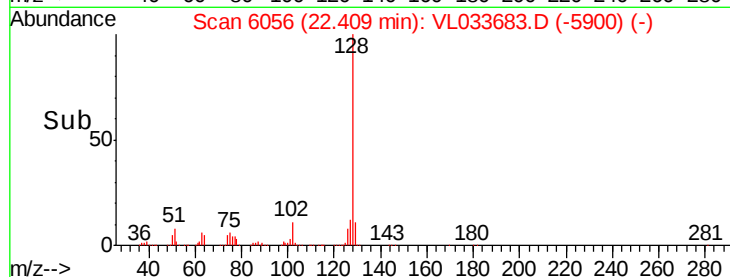
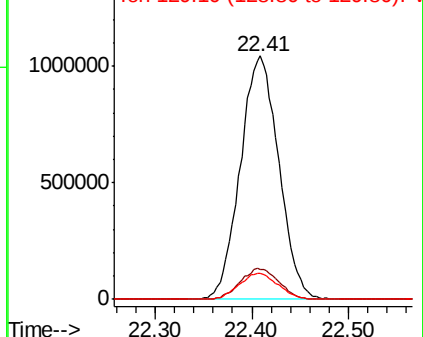
129 10.5 8.8 13.2



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

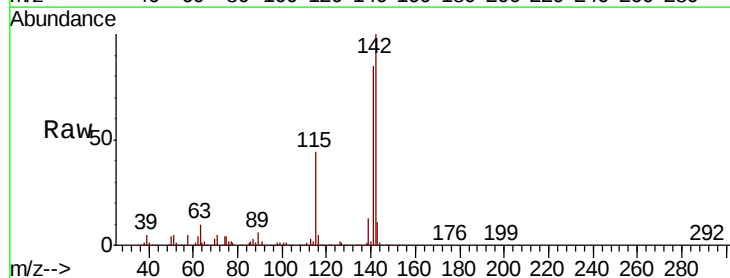
Tgt Ion:142 Resp: 1083705

Ion Ratio Lower Upper

142 100

141 84.2 67.9 101.9

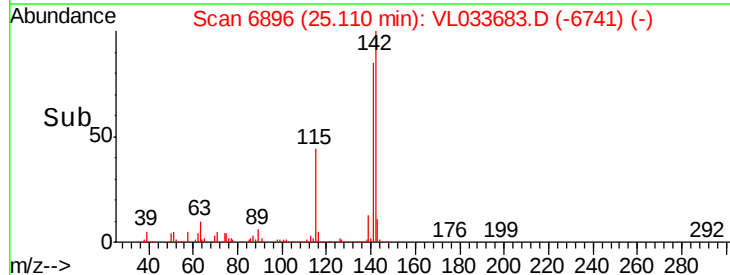
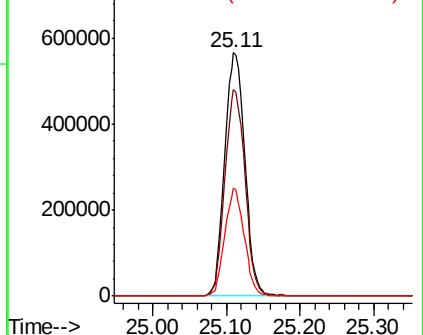
115 42.5 34.2 51.4

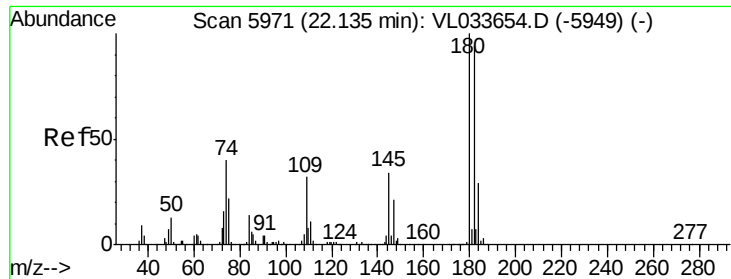


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

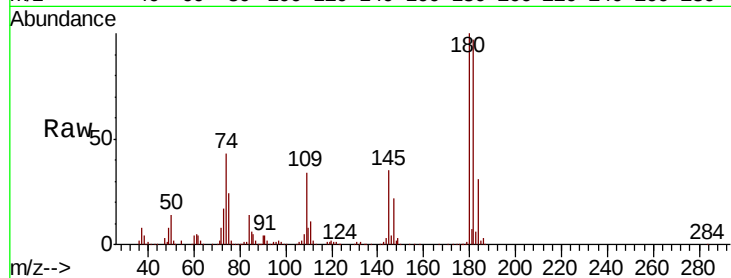




#81
 1,2,4-Trichlorobenzene
 Concen: 8.385 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL033683.D
 Acq: 7 May 2019 15:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt 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

