

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041619\
 Data File : VL033587.D
 Acq On : 16 Apr 2019 9:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Apr 17 06:36:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	926488	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2229397	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2315479m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1827011	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1061619	7.857	ppbv	98
3) Chlorodifluoromethane	3.02	51	915913	8.587	ppbv	100
4) Chloromethane	3.17	50	485084	8.594	ppbv	97
5) Vinyl Chloride	3.29	62	487656	8.794	ppbv	95
6) Bromomethane	3.52	94	314612	8.828	ppbv	90
7) Chloroethane	3.60	64	184560	8.942	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1246936	8.660	ppbv	99
9) Propene	3.04	41	383928	8.571	ppbv	98
10) Heptane	8.25	43	1044741	8.725	ppbv	99
11) Trichlorofluoromethane	4.00	101	1490228	8.949	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1040350	9.301	ppbv	100
13) Ethanol	3.65	45	109670	9.461	ppbv	64
14) Bromoethene	3.79	108	397456	8.909	ppbv	99
15) Acetone	3.90	43	922086	8.277	ppbv	98
16) 1,3-Butadiene	3.36	39	438948	9.934	ppbv	97
17) tert-Butyl alcohol	4.36	59	175736	8.580	ppbv	99
18) 1,1-Dichloroethene	4.35	96	441959	9.199	ppbv	97
19) Isopropyl Alcohol	4.02	45	614235	8.717	ppbv #	98
20) Methylene Chloride	4.41	84	390885	8.266	ppbv	91
21) Allyl Chloride	4.48	41	682360	9.690	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	461666	9.210	ppbv	98
23) Vinyl Acetate	5.16	43	1445252	9.115	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1018238	8.454	ppbv	99
25) Ethyl Acetate	5.77	43	1716985	8.307	ppbv	100
26) Hexane	5.78	57	764037	8.314	ppbv	99
27) Carbon Disulfide	4.62	76	1100305	10.068	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1208236	9.128	ppbv	99
29) Chloroform	5.85	83	1329313	8.438	ppbv	96
30) Cyclohexane	7.25	84	662531	9.113	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	802234	8.780	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1340515	8.936	ppbv	100
34) 2-Butanone	5.33	43	1135061	8.474	ppbv	100
35) Carbon Tetrachloride	7.14	117	1459285	9.242	ppbv	98
36) Benzene	7.01	78	1646861	8.804	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1026024	8.183	ppbv	100
38) Trichloroethene	7.96	130	677305	9.621	ppbv	97
39) 1,2-Dichloropropane	7.74	63	612558	8.359	ppbv	98
40) 1,4-Dioxane	7.95	88	233294m	8.926	ppbv	
41) Tetrahydrofuran	6.15	42	627592	8.519	ppbv	97
42) Bromodichloromethane	7.92	83	1489489	8.722	ppbv	99
43) Methyl Methacrylate	8.14	69	666908	8.780	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2755474	8.429	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	929200	9.964	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1050893	9.650	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	695556	8.359	ppbv	98
48) Dibromochloromethane	10.45	129	1304104	9.292	ppbv	99
49) Bromoform	13.20	173	1203501	8.976	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1706186	8.699	ppbv	100
51) 2-Hexanone	10.27	43	1341575	9.170	ppbv #	100
52) Tetrachloroethene	11.37	164	640834	9.080	ppbv	95
53) Toluene	9.95	91	1964592	9.038	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1110140	8.530	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	918721	8.657	ppbv	99
57) Chlorobenzene	12.30	112	1538601	8.558	ppbv	99
58) Ethyl Benzene	12.86	91	2787507	9.015	ppbv	99
59) m/p-Xylene	13.13	91	4765872m	17.256	ppbv	
60) o-Xylene	13.85	91	2330516	8.726	ppbv	98
61) Styrene	13.69	104	1726653	9.420	ppbv	99
62) Isopropylbenzene	14.83	105	3296045	8.715	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1645345	8.367	ppbv	99
64) n-propylbenzene	15.72	120	856826	8.928	ppbv	98
65) tert-Butylbenzene	16.91	119	2996452	8.991	ppbv	99
66) Benzyl Chloride	17.16	91	1727070	11.144	ppbv	98
67) sec-Butylbenzene	17.46	105	4233314	8.932	ppbv	100
69) p-Isopropyltoluene	17.82	119	3545738	9.188	ppbv	99
70) n-Butylbenzene	18.71	91	3672518	8.982	ppbv	100
71) 2-Chlorotoluene	15.62	91	2551572	8.873	ppbv	99
72) 4-Ethyltoluene	16.00	105	2761087	9.197	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2651376	9.229	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2744210	8.912	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	1637252	8.603	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1650082	8.898	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1615672	8.947	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1219660	10.203	ppbv	99
79) Naphthalene	22.41	128	2754500	10.450	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1261706	14.263	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1426078	9.753	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

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VSTDCCC010

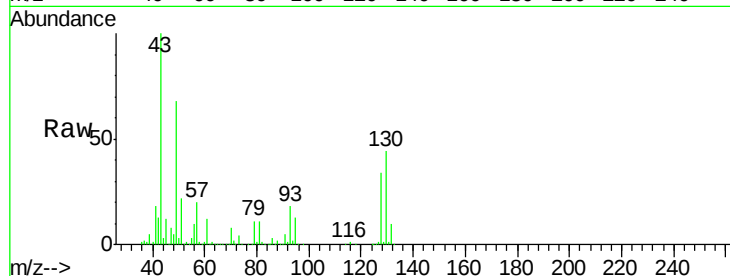
Tot Ion: 49 Resp: 926488

Ion Ratio Lower Upper

49 100

128 49.3 24.0 72.0

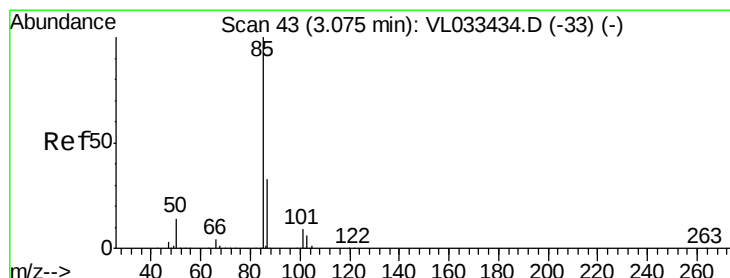
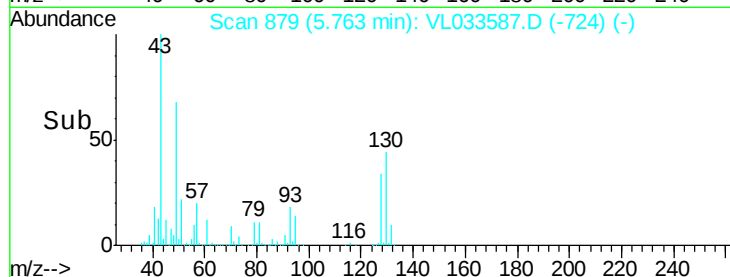
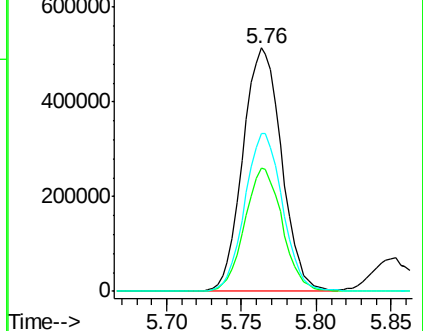
130 63.9 31.2 93.6



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: 7.857 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033587.D

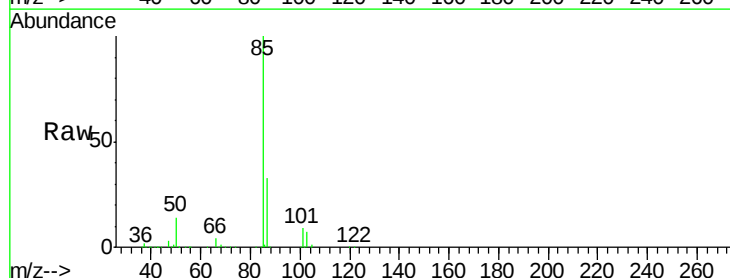
Acq: 16 Apr 2019 9:58

Tgt Ion: 85 Resp: 1061619

Ion Ratio Lower Upper

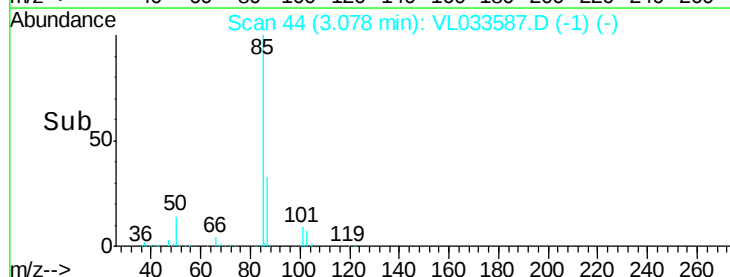
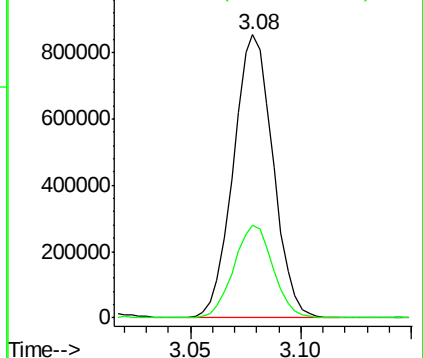
85 100

87 32.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.587 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

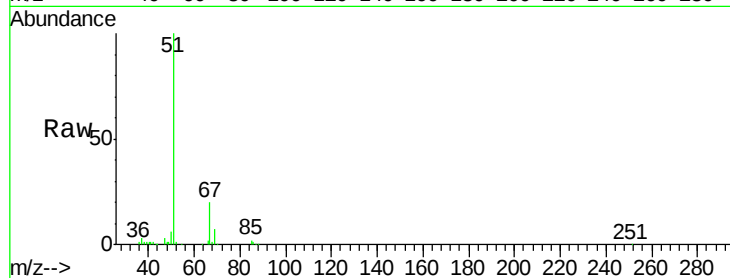
VSTDCCC010

Tot Ion: 51 Resp: 915913

Ion Ratio Lower Upper

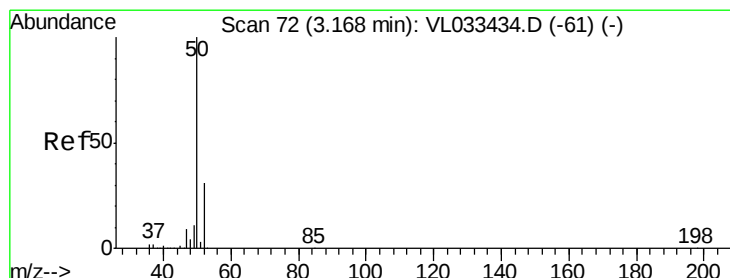
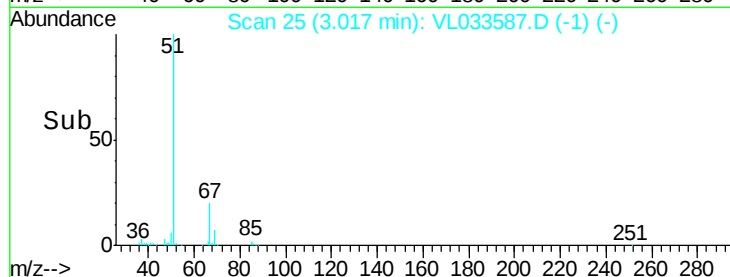
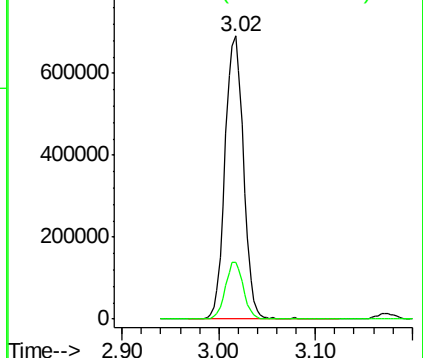
51 100

67 19.6 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.594 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033587.D

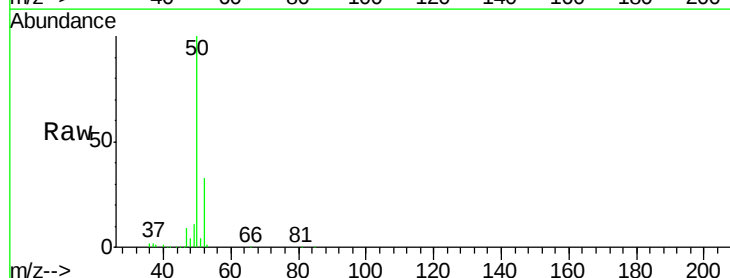
Acq: 16 Apr 2019 9:58

Tgt Ion: 50 Resp: 485084

Ion Ratio Lower Upper

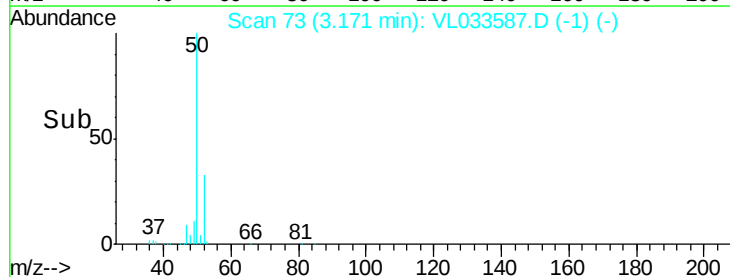
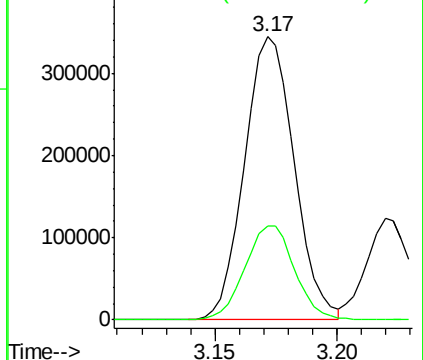
50 100

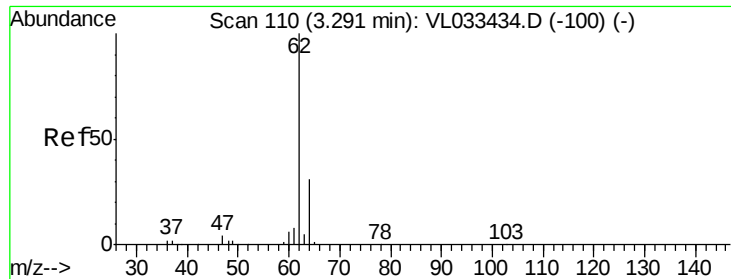
52 33.2 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.794 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

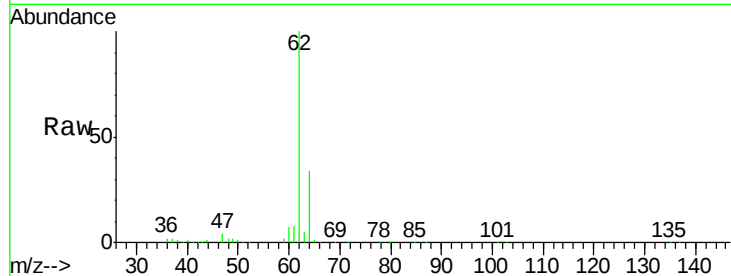
VSTDCCC010

Tot Ion: 62 Resp: 487656

Ion Ratio Lower Upper

62 100

64 33.9 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

300000

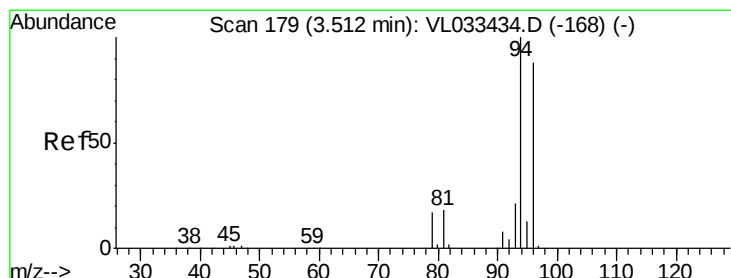
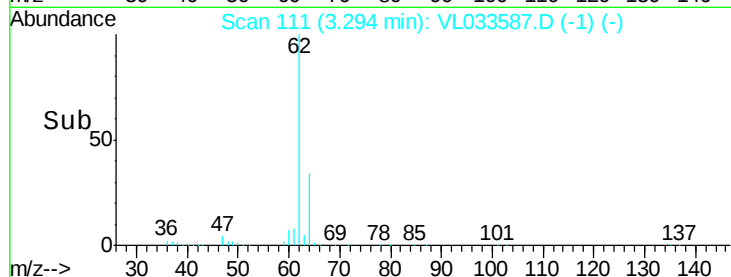
200000

100000

0

3.25 3.30 3.35

Time-->



#6

Bromomethane

Concen: 8.828 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033587.D

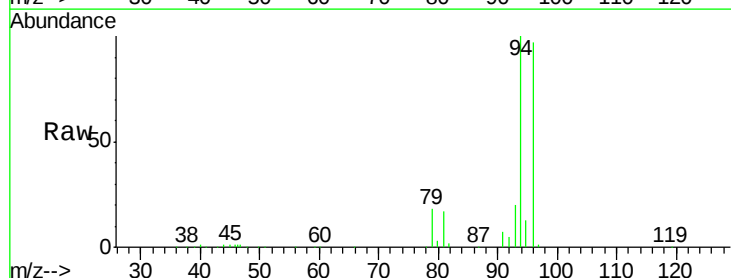
Acq: 16 Apr 2019 9:58

Tgt Ion: 94 Resp: 314612

Ion Ratio Lower Upper

94 100

96 97.2 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

250000

200000

150000

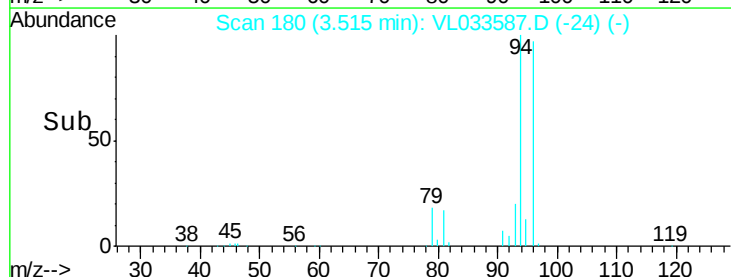
100000

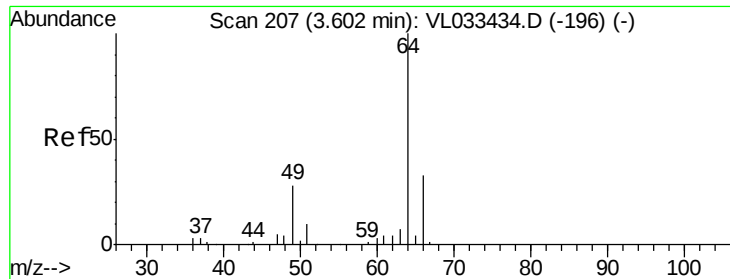
50000

0

3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 8.942 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

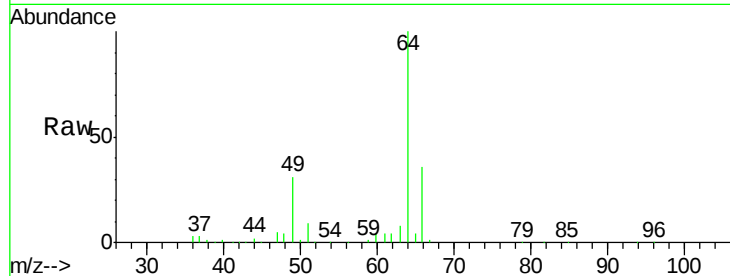
VSTDCCC010

Tot Ion: 64 Resp: 184560

Ion Ratio Lower Upper

64 100

66 36.0 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

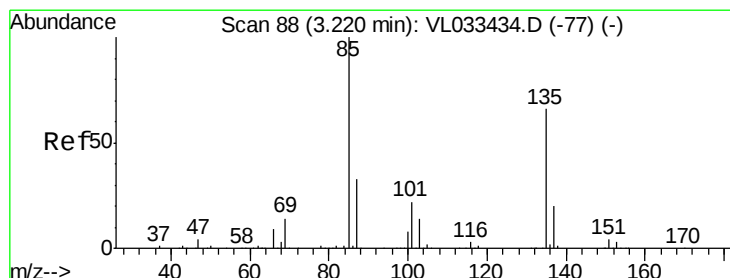
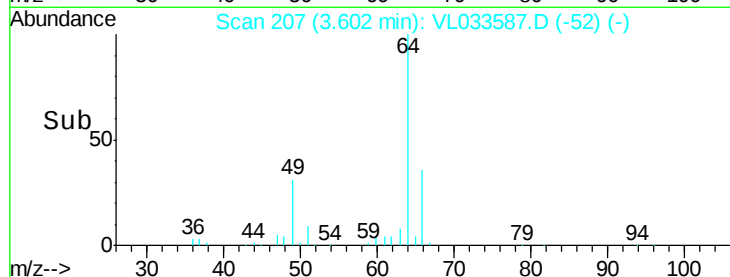
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.660 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033587.D

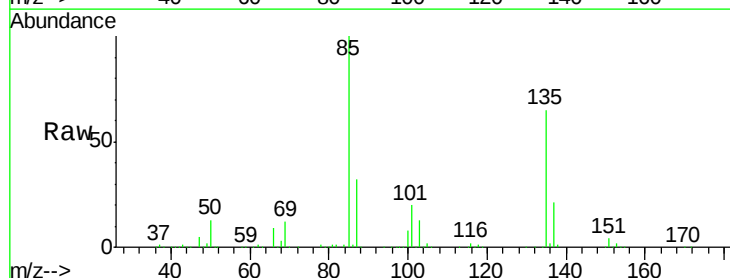
Acq: 16 Apr 2019 9:58

Tgt Ion: 85 Resp: 1246936

Ion Ratio Lower Upper

85 100

135 68.2 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

1000000

800000

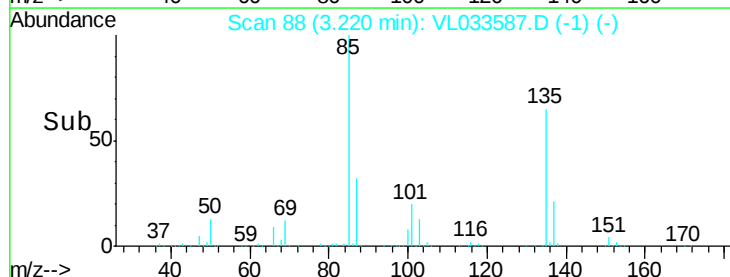
600000

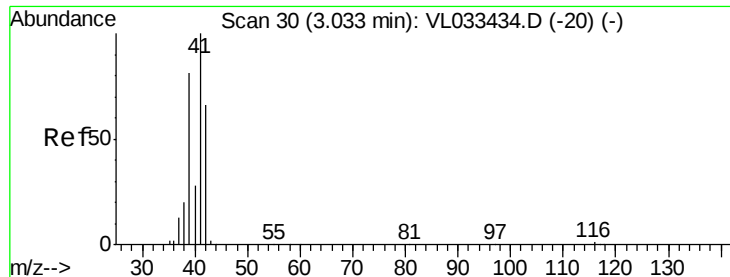
400000

200000

0

Time-->





#9

Propene

Concen: 8.571 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

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ClientSampleId :

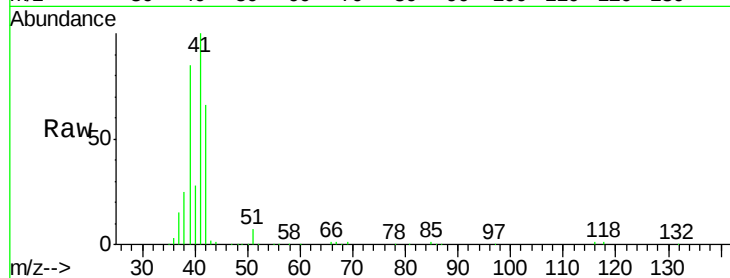
VSTDCCC010

Tot Ion: 41 Resp: 383928

Ion Ratio Lower Upper

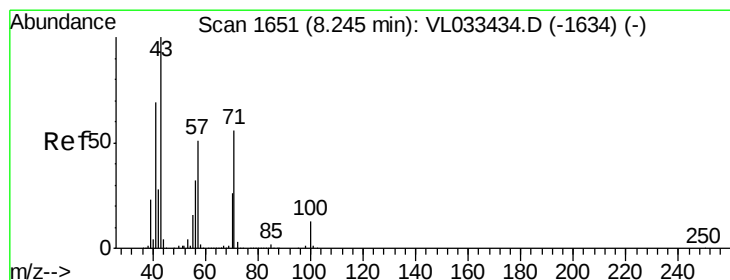
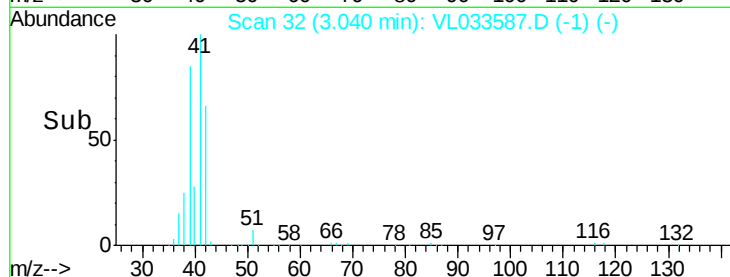
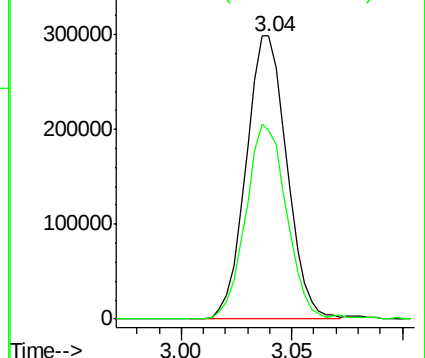
41 100

42 69.3 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 8.725 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033587.D

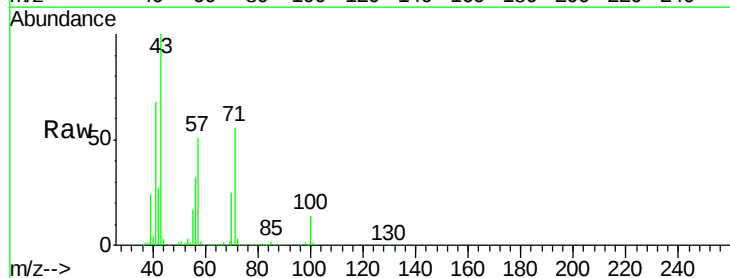
Acq: 16 Apr 2019 9:58

Tgt Ion: 43 Resp: 1044741

Ion Ratio Lower Upper

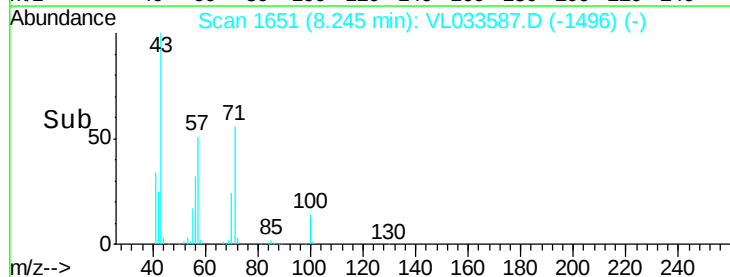
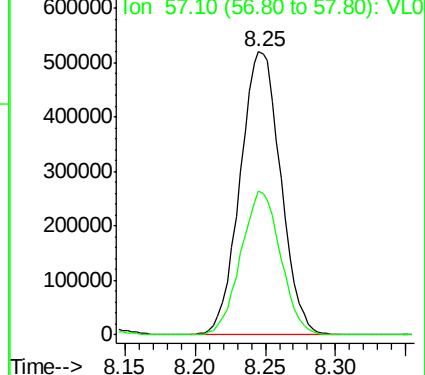
43 100

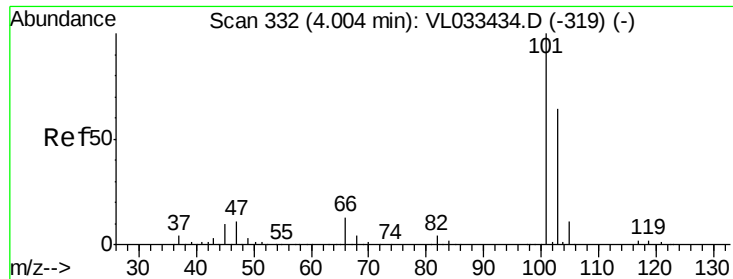
57 50.2 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

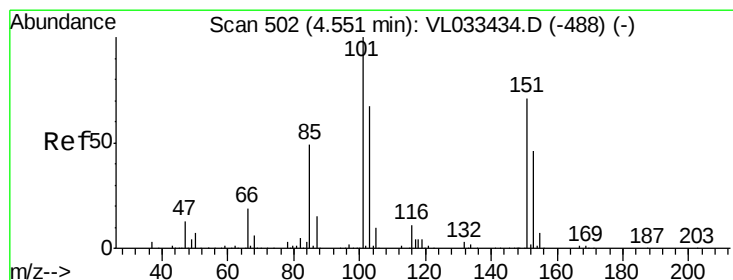
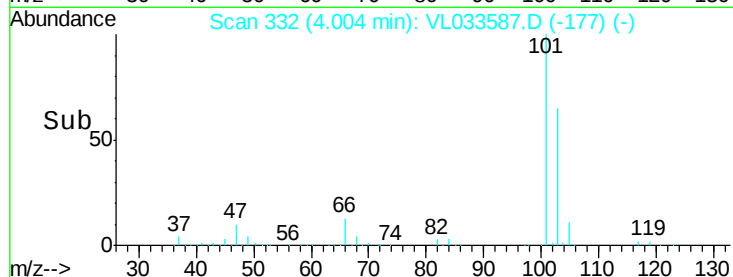
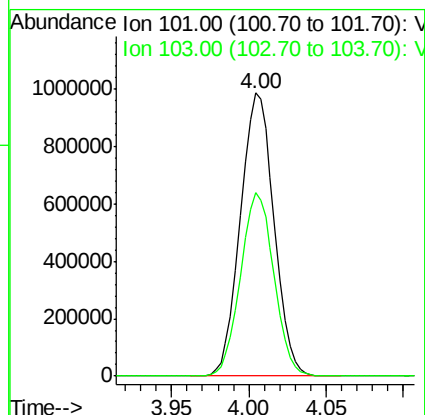
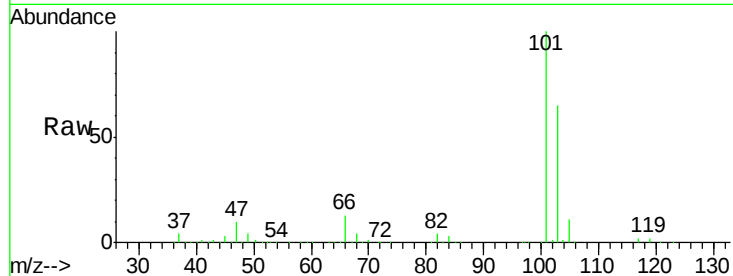




#11
 Trichlorofluoromethane
 Concen: 8.949 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

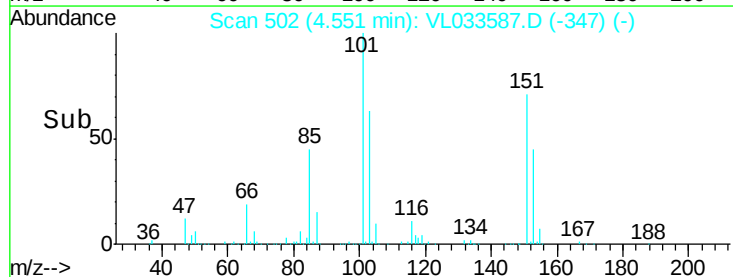
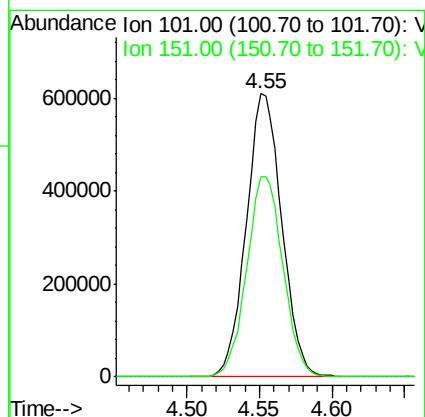
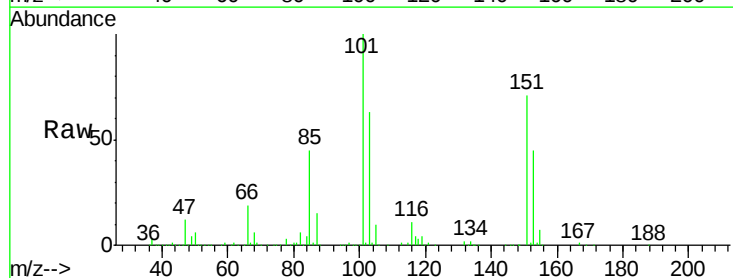
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

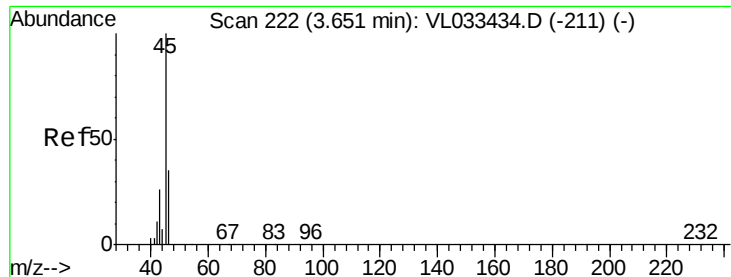
Tot Ion:101 Resp: 1490228
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.301 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

Tgt Ion:101 Resp: 1040350
 Ion Ratio Lower Upper
 101 100
 151 72.5 57.7 86.5





#13

Ethanol

Concen: 9.461 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

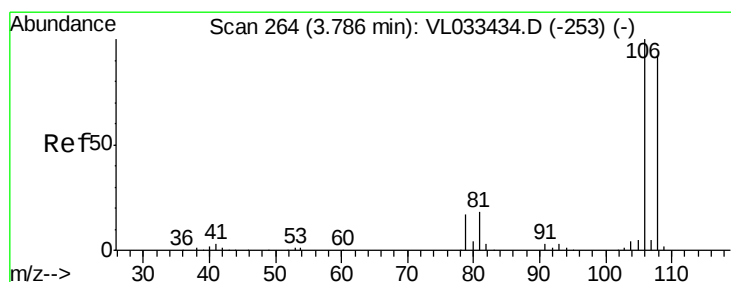
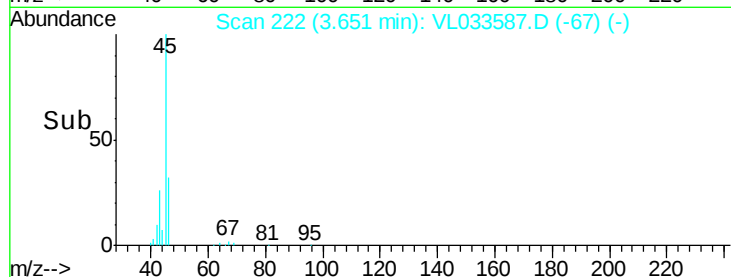
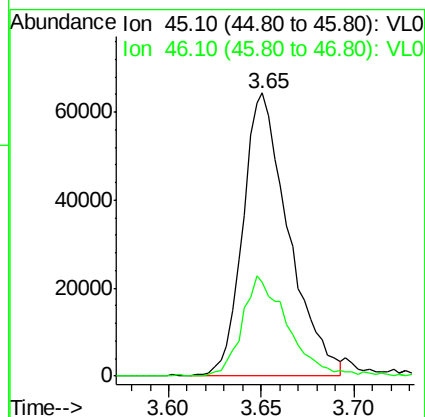
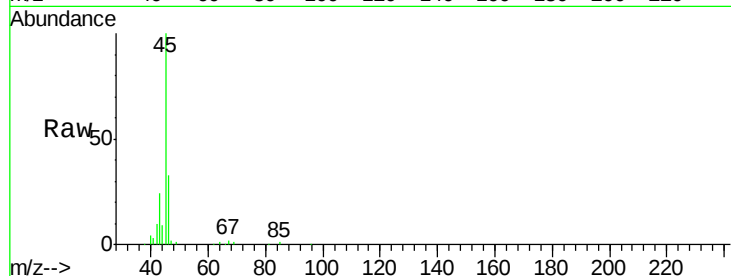
VSTDCCC010

Tot Ion: 45 Resp: 109670

Ion Ratio Lower Upper

45 100

46 35.8 25.4 101.8



#14

Bromoethene

Concen: 8.909 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

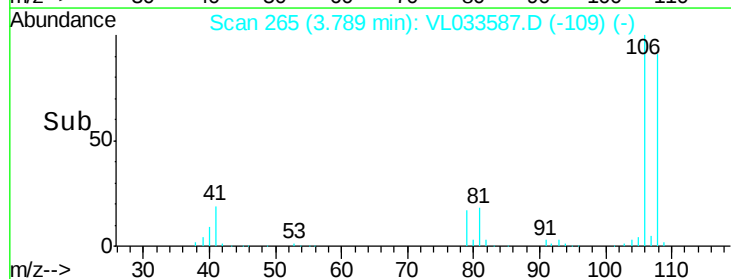
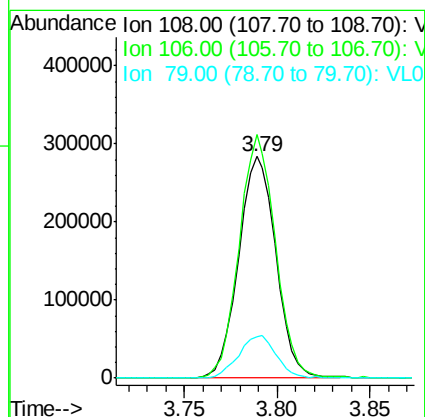
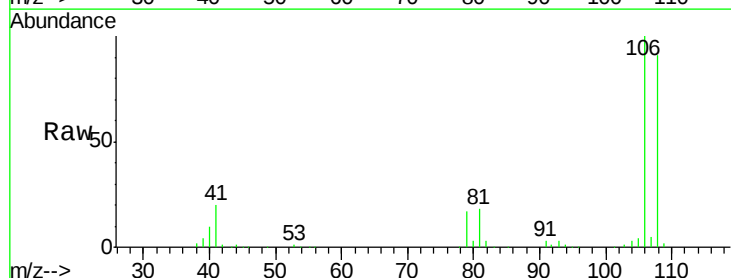
Tgt Ion: 108 Resp: 397456

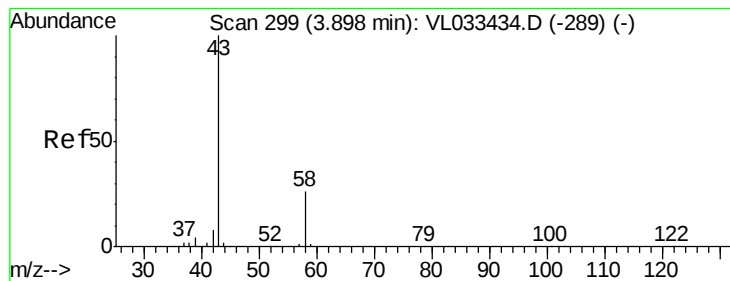
Ion Ratio Lower Upper

108 100

106 107.3 86.4 129.6

79 19.6 15.8 23.8





#15

Acetone

Concen: 8.277 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

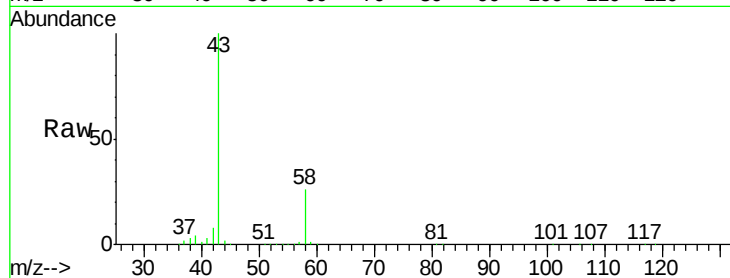
VSTDCCC010

Tot Ion: 43 Resp: 922086

Ion Ratio Lower Upper

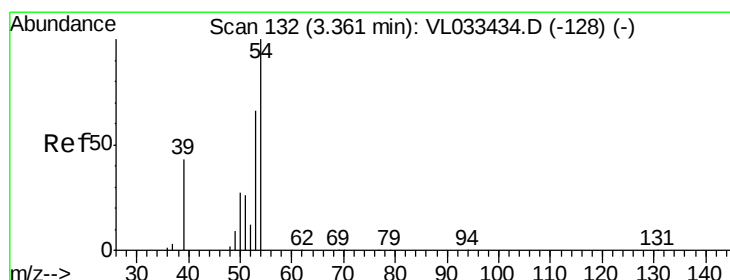
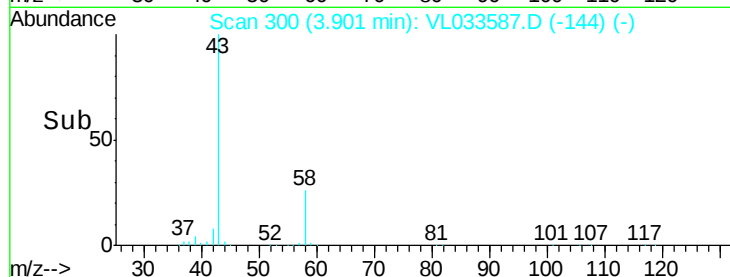
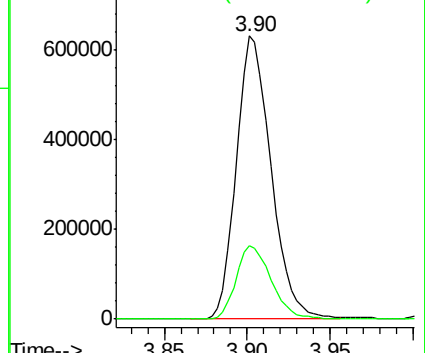
43 100

58 26.4 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.934 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033587.D

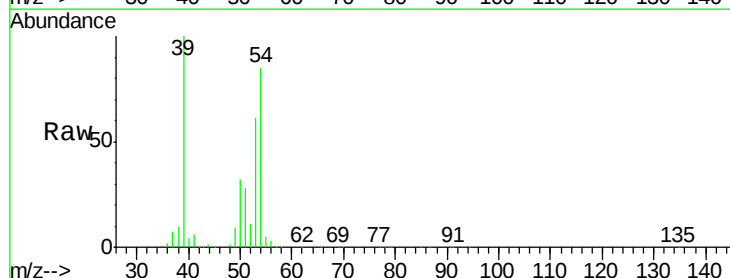
Acq: 16 Apr 2019 9:58

Tgt Ion: 39 Resp: 438948

Ion Ratio Lower Upper

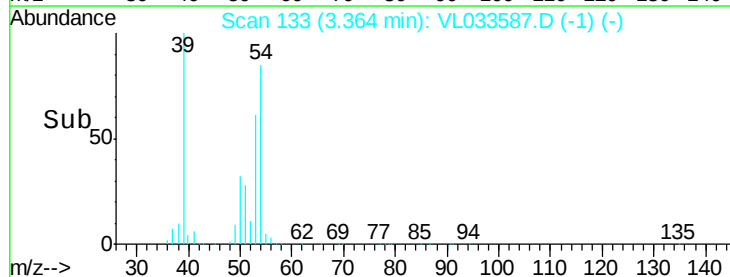
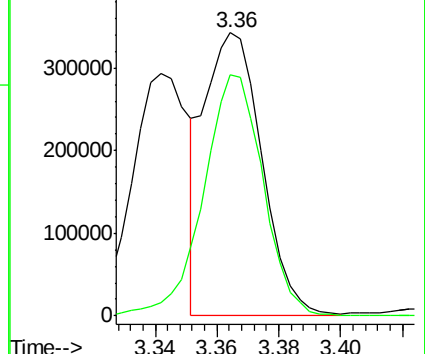
39 100

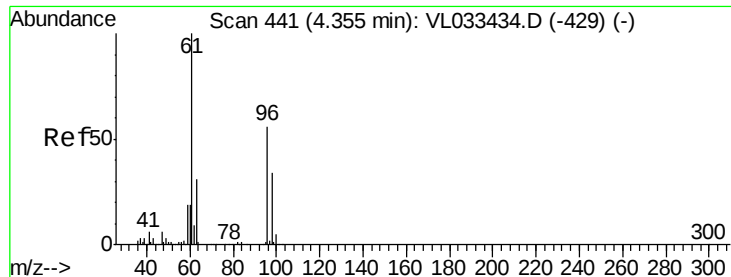
54 89.6 69.4 104.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 8.580 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

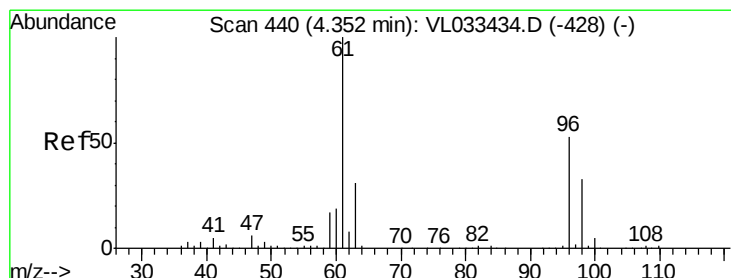
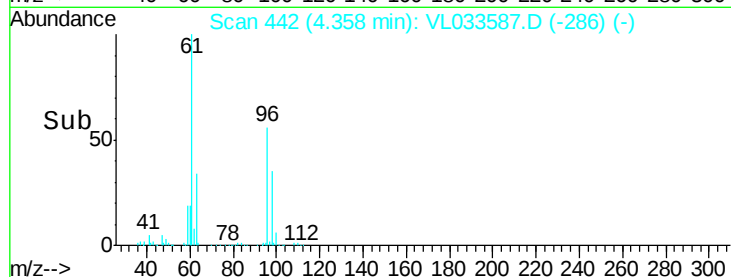
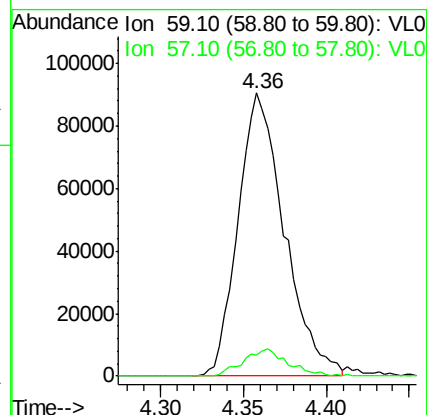
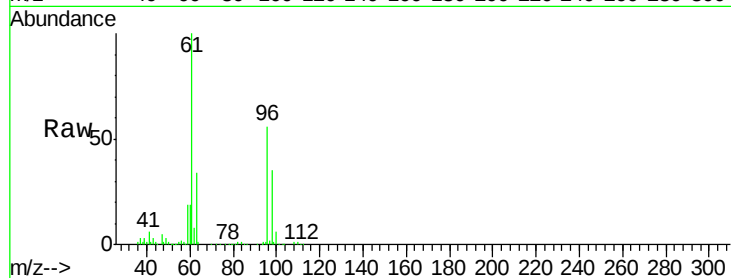
VSTDCCC010

Tot Ion: 59 Resp: 175736

Ion Ratio Lower Upper

59 100

57 9.4 7.8 11.8



#18

1,1-Dichloroethene

Concen: 9.199 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

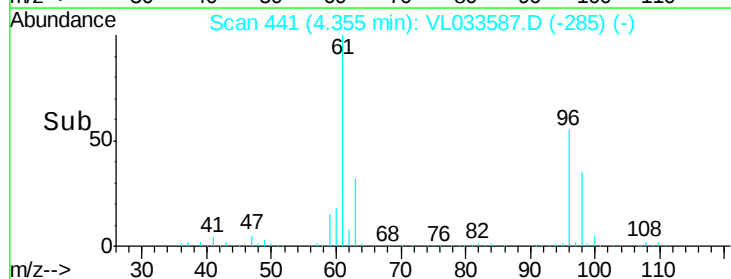
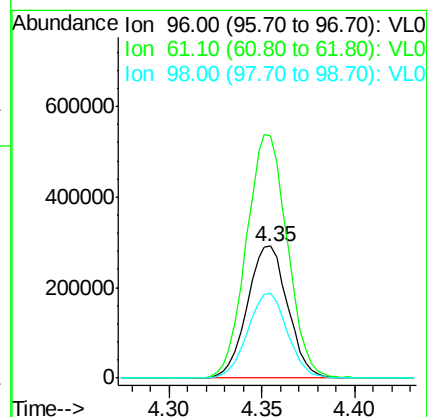
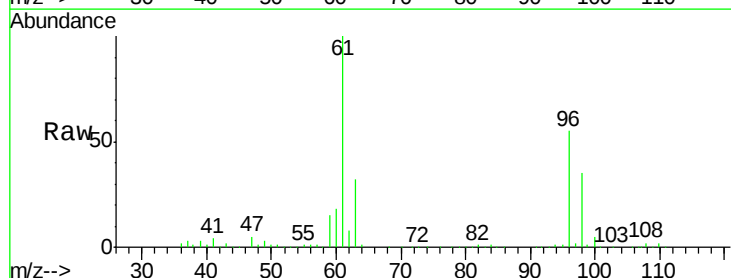
Tgt Ion: 96 Resp: 441959

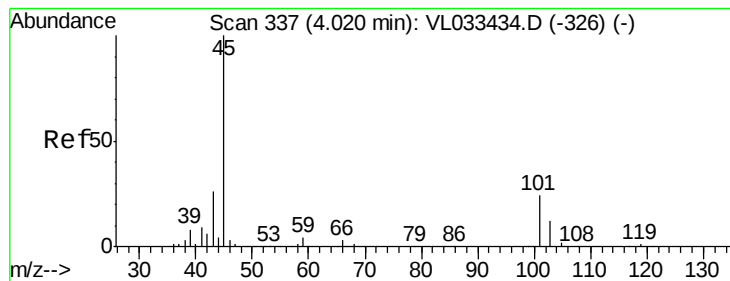
Ion Ratio Lower Upper

96 100

61 183.4 149.8 224.6

98 64.6 48.7 73.1





#19

Isopropyl Alcohol

Concen: 8.717 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

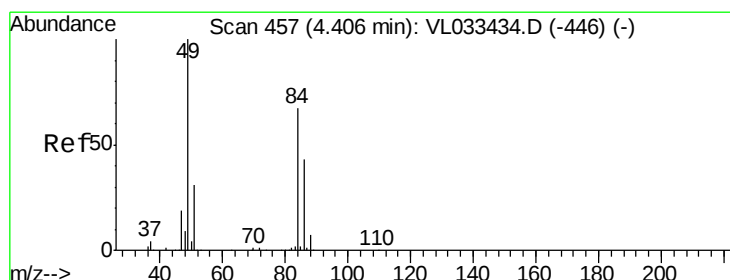
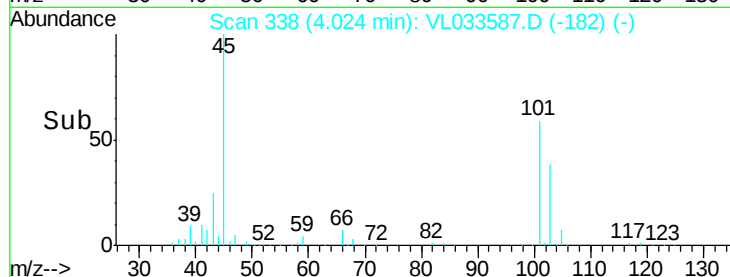
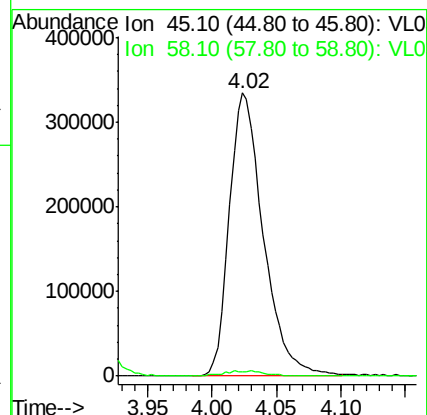
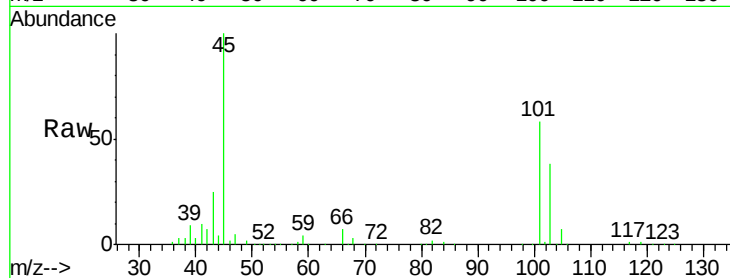
VSTDCCC010

Tot Ion: 45 Resp: 614235

Ion Ratio Lower Upper

45 100

58 2.6 1.4 2.2#



#20

Methylene Chloride

Concen: 8.266 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Tgt Ion: 84 Resp: 390885

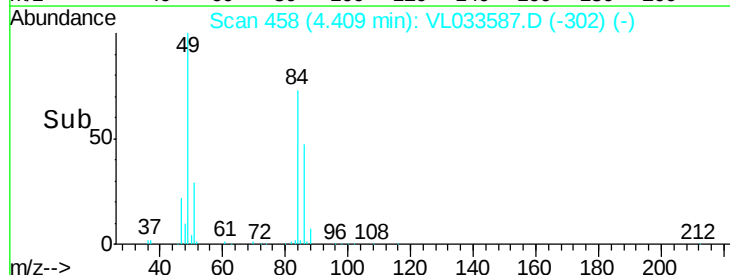
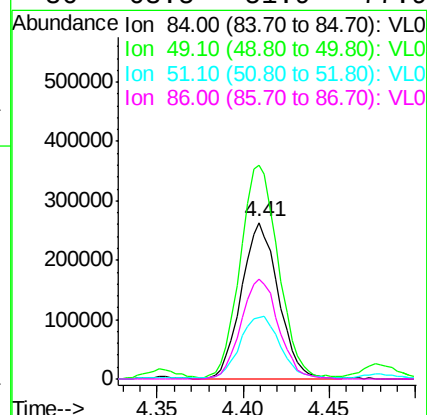
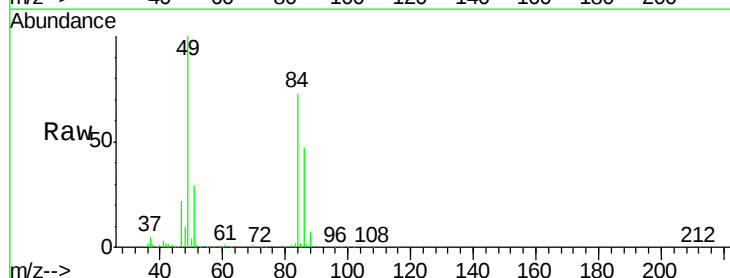
Ion Ratio Lower Upper

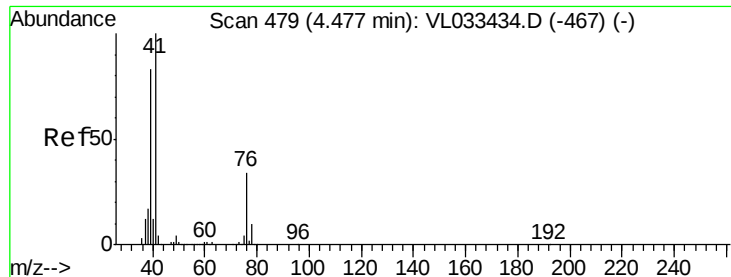
84 100

49 135.6 120.0 180.0

51 38.7 36.7 55.1

86 63.5 51.9 77.9





#21

Allvl Chloride

Concen: 9.690 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

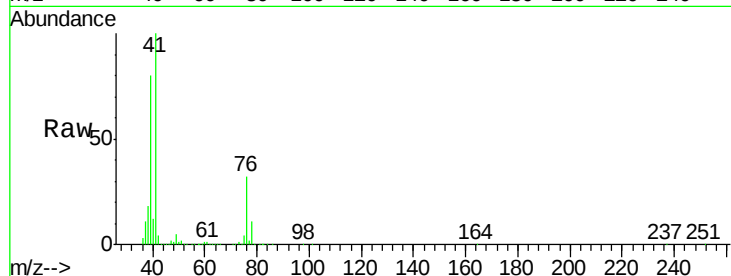
Tot Ion: 41 Resp: 682360

Ion Ratio Lower Upper

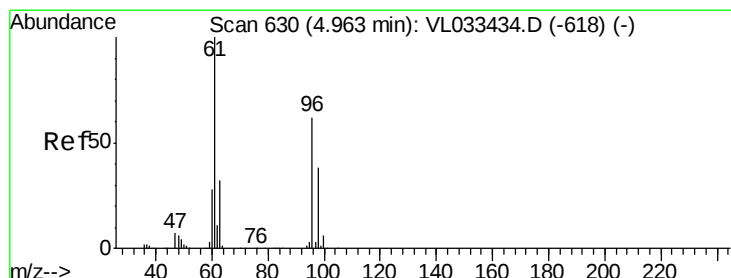
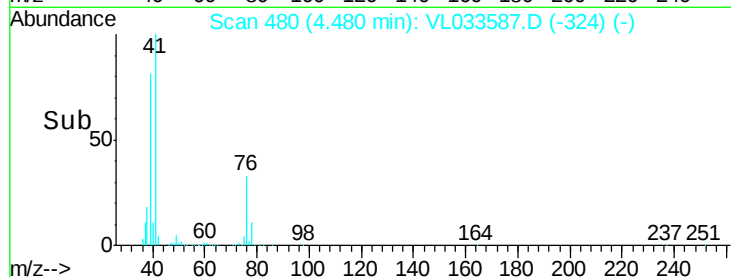
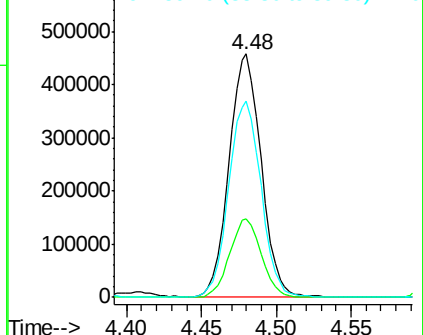
41 100

76 32.1 25.4 38.2

39 81.3 65.3 97.9



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: 9.210 ppbv

RT: 4.97 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

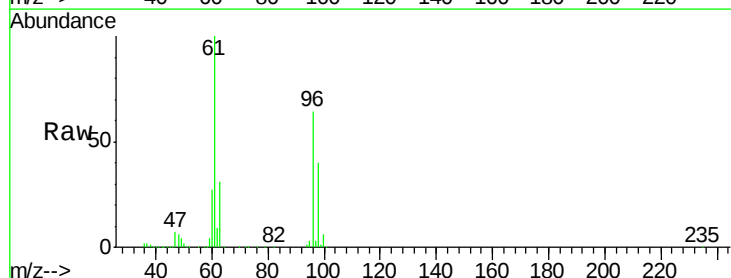
Tgt Ion: 96 Resp: 461666

Ion Ratio Lower Upper

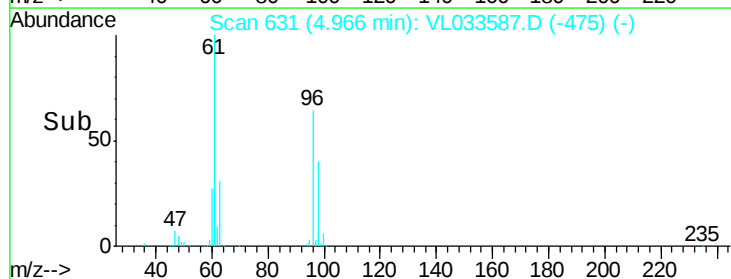
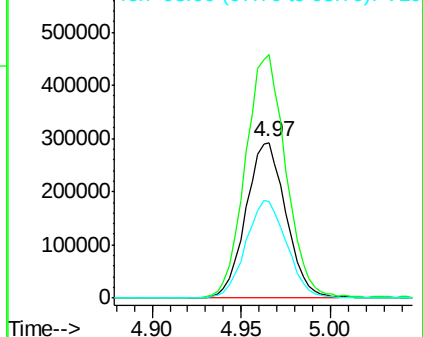
96 100

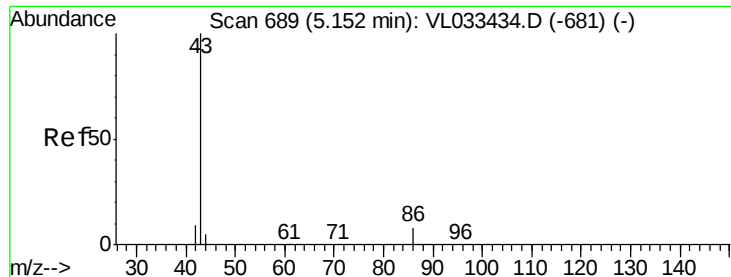
61 156.7 128.9 193.3

98 61.9 49.5 74.3



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: 9.115 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1445252

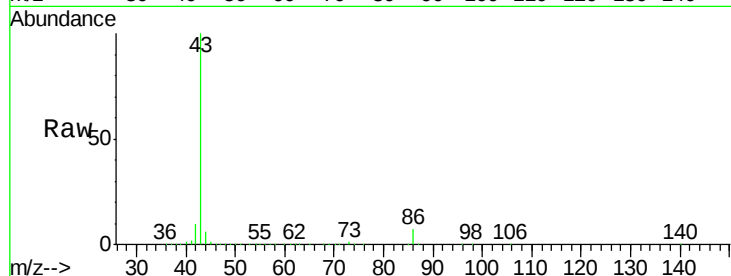
Ion Ratio Lower Upper

43 100

86 7.1 5.6 8.4

42 10.1 8.0 12.0

44 5.7 3.9 5.9

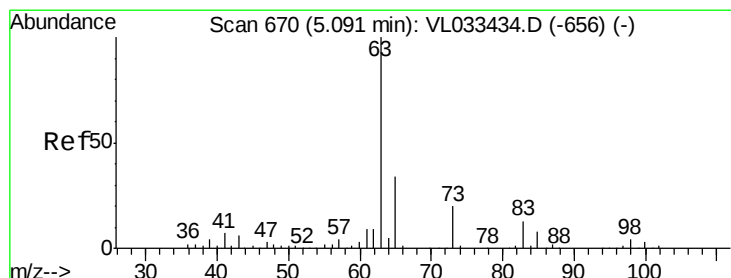
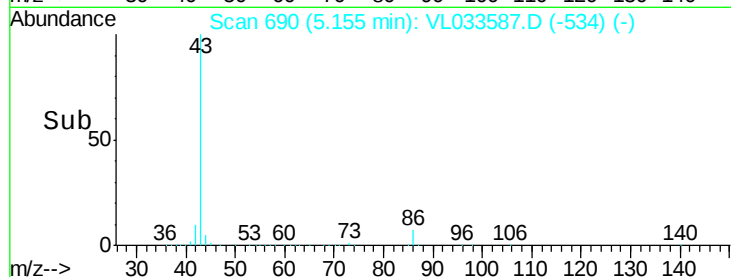
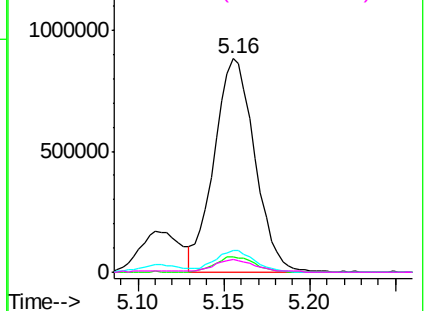


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.454 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

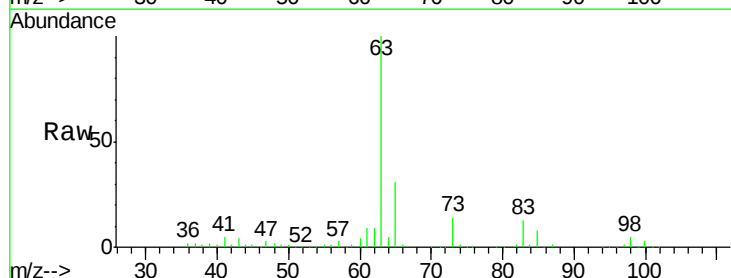
Tgt Ion: 63 Resp: 1018238

Ion Ratio Lower Upper

63 100

98 4.5 2.2 6.6

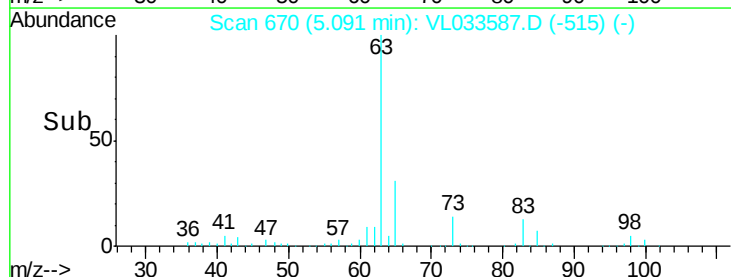
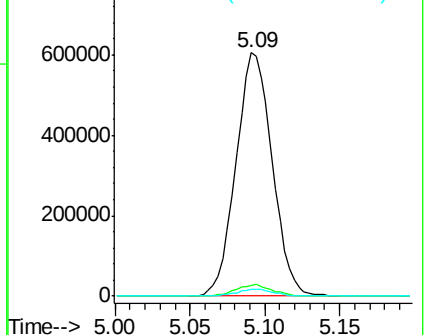
100 2.7 1.5 4.4

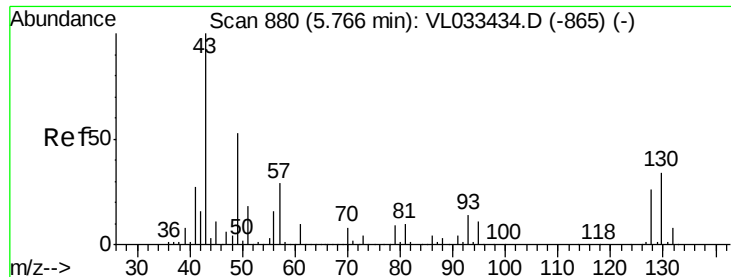


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



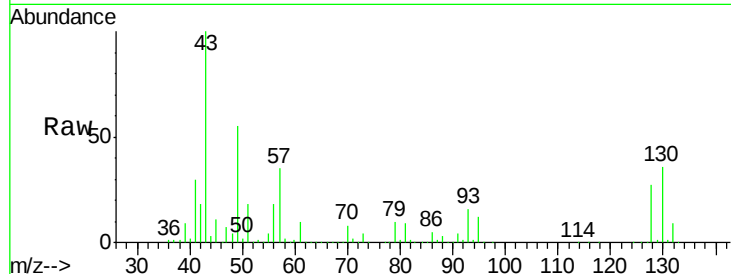


#25
Ethyl Acetate
Concen: 8.307 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1716985

Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.4	7.3	10.9
70	7.0	5.6	8.4



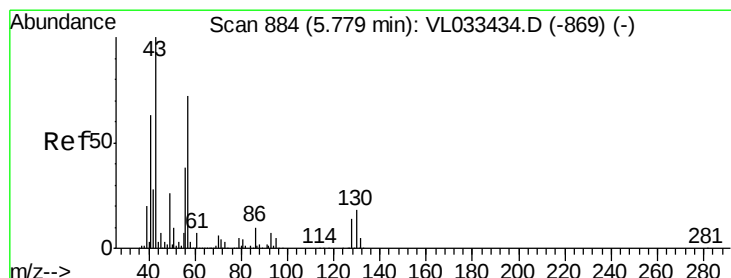
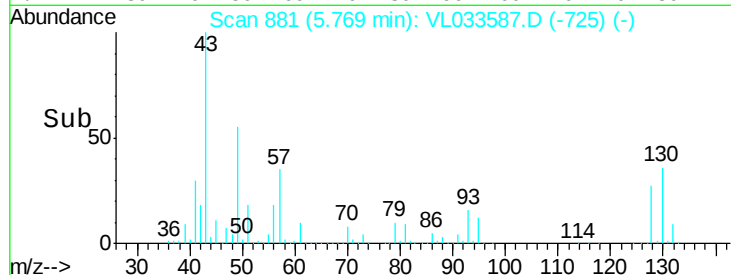
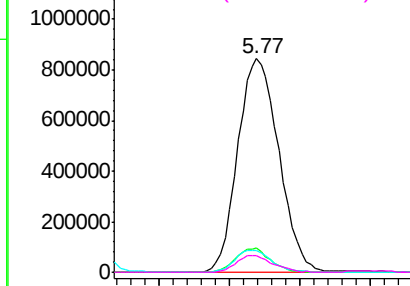
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 8.314 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

Tgt Ion: 57 Resp: 764037

Ion	Ratio	Lower	Upper
57	100		
41	89.2	70.7	106.1
43	225.8	182.6	274.0
56	53.8	42.0	63.0

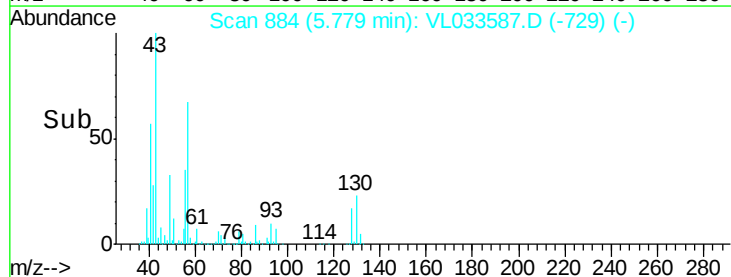
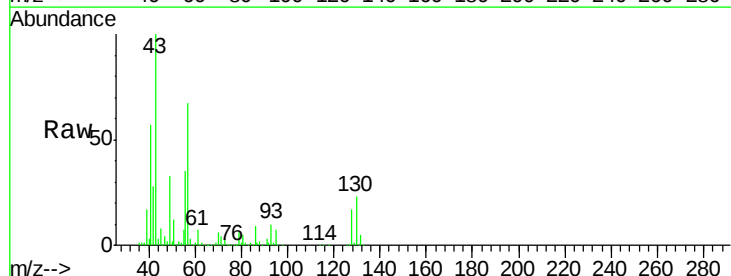
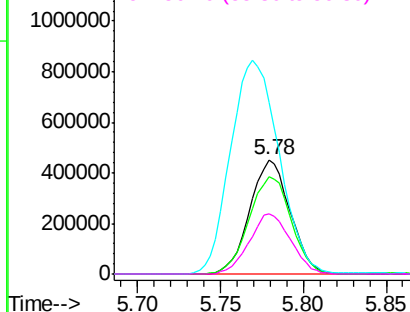
Abundance

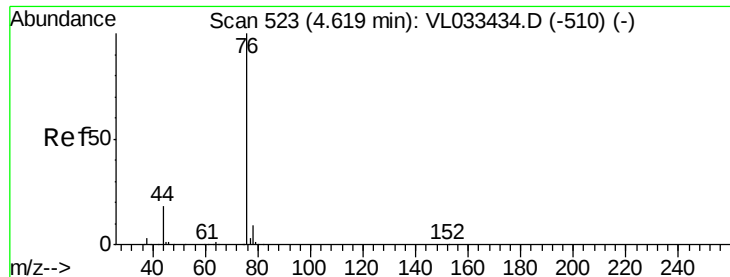
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.068 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

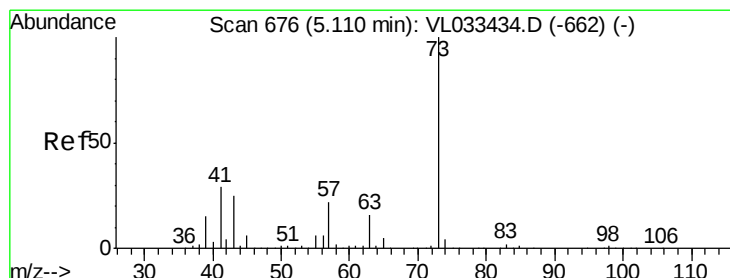
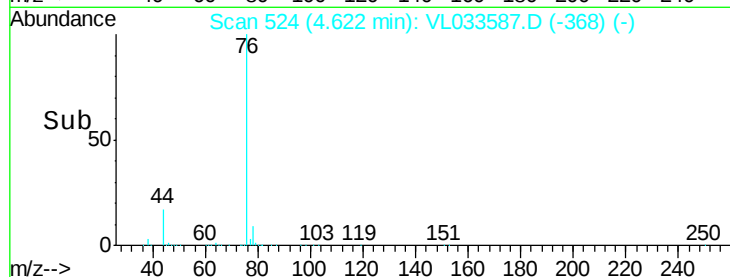
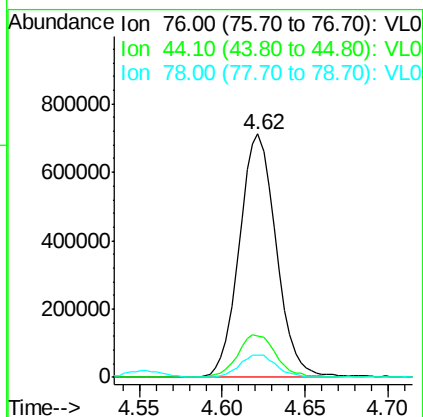
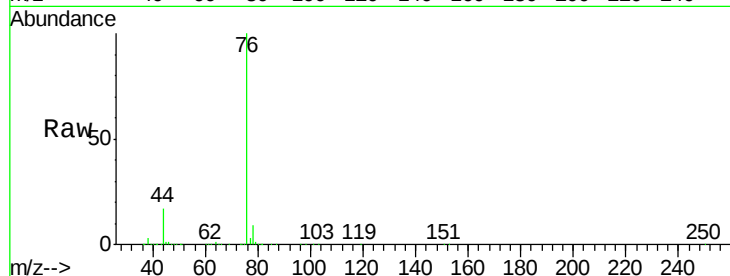
Tot Ion: 76 Resp: 1100305

Ion Ratio Lower Upper

76 100

44 18.5 14.8 22.2

78 9.5 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 9.128 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033587.D

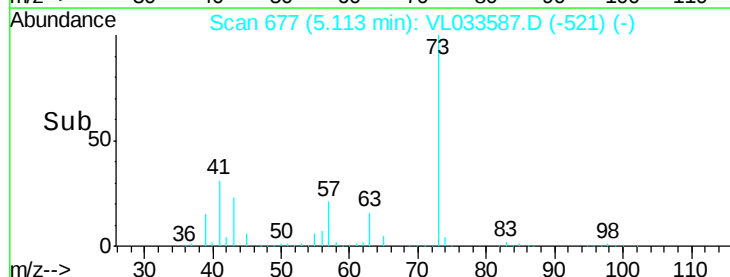
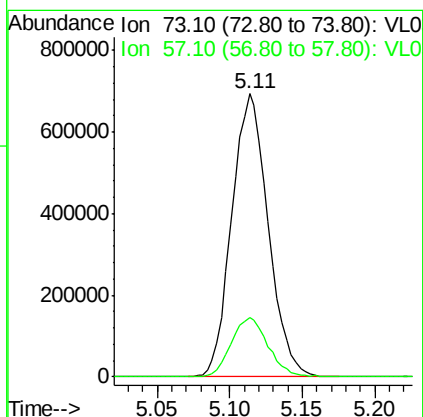
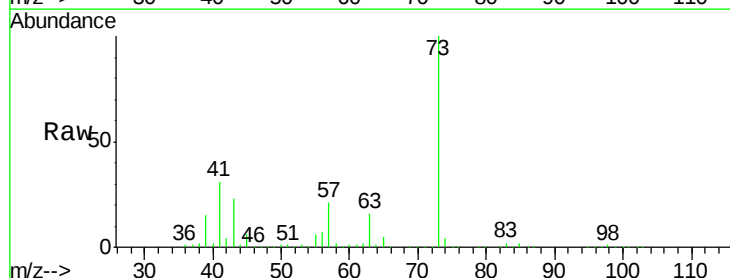
Acq: 16 Apr 2019 9:58

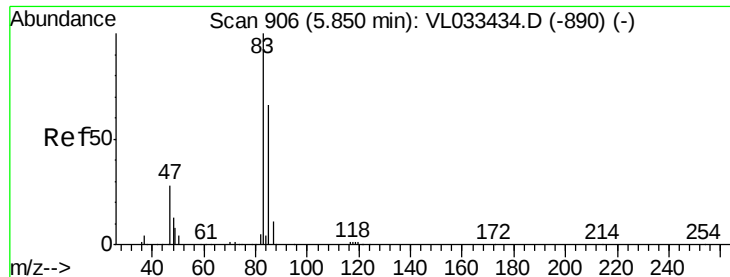
Tgt Ion: 73 Resp: 1208236

Ion Ratio Lower Upper

73 100

57 21.4 17.4 26.2





#29

Chloroform

Concen: 8.438 ppbv

RT: 5.85 min Scan# 907

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

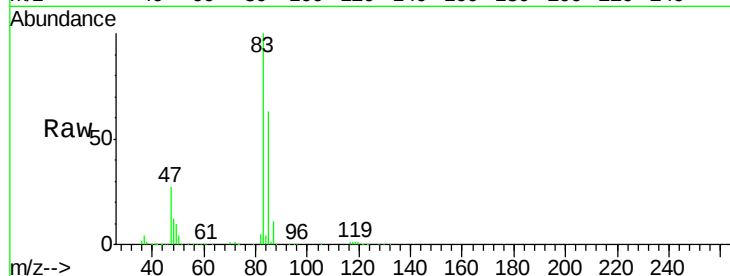
VSTDCCC010

Tot Ion: 83 Resp: 1329313

Ion Ratio Lower Upper

83 100

85 63.0 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.85

800000

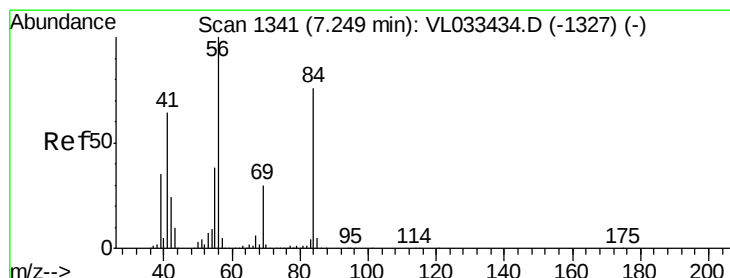
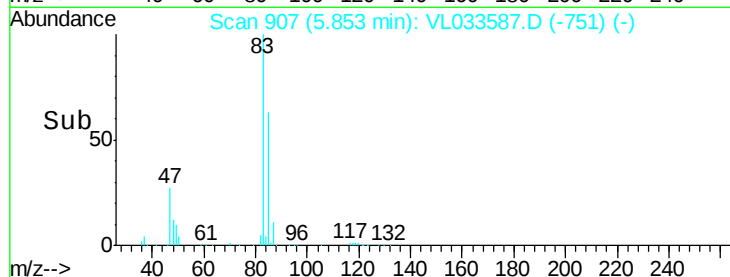
600000

400000

200000

0

Time--> 5.75 5.80 5.85 5.90



#30

Cyclohexane

Concen: 9.113 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

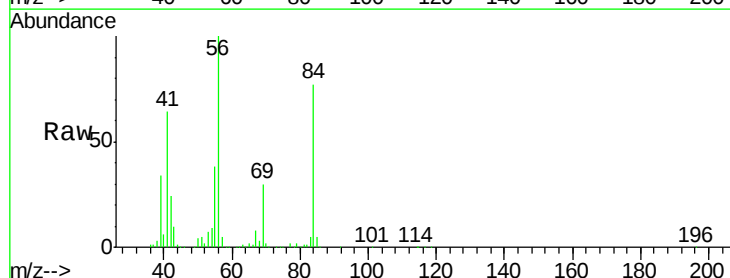
Tgt Ion: 84 Resp: 662531

Ion Ratio Lower Upper

84 100

56 138.9 109.7 164.5

41 84.7 68.2 102.2



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

500000

400000

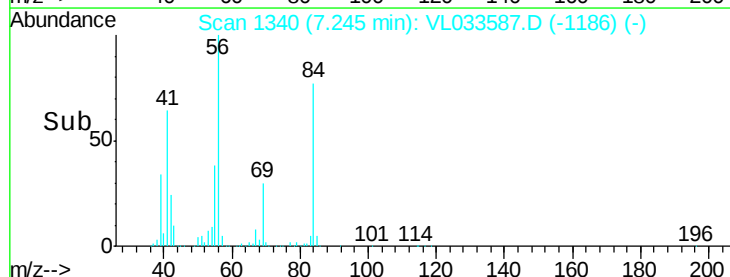
300000

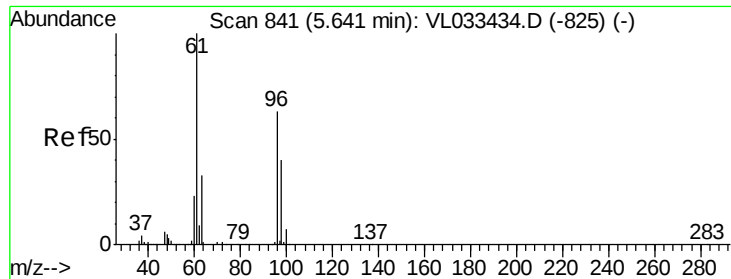
200000

100000

0

Time--> 7.15 7.20 7.25 7.30

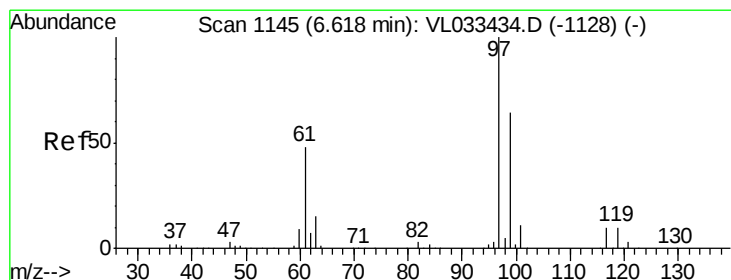
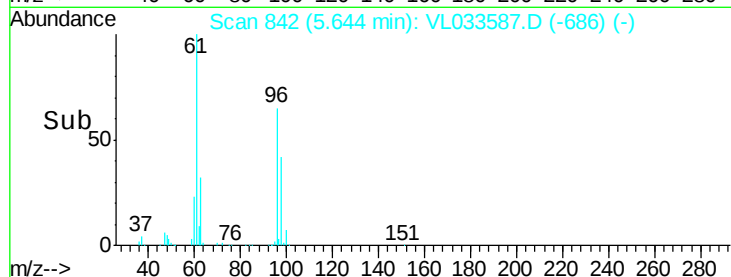
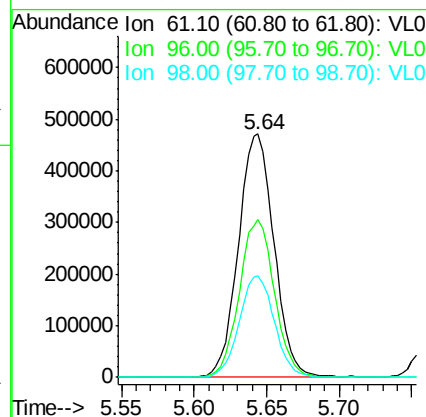
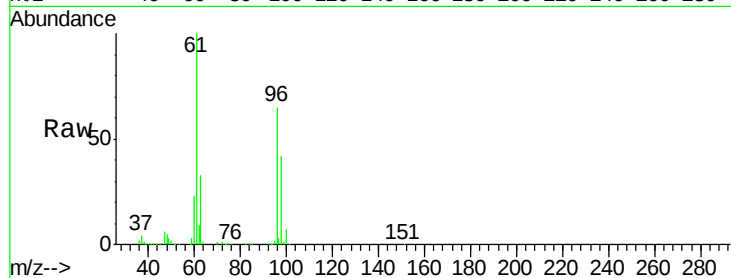




#31
 cis-1,2-Dichloroethene
 Concen: 8.780 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

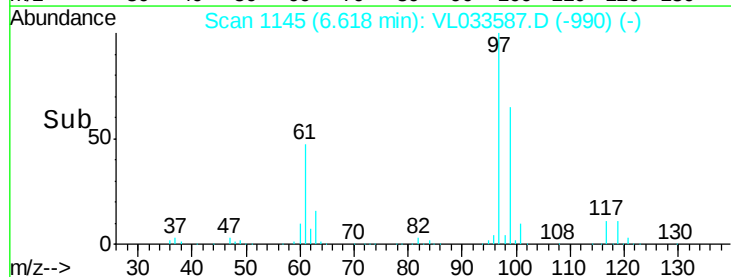
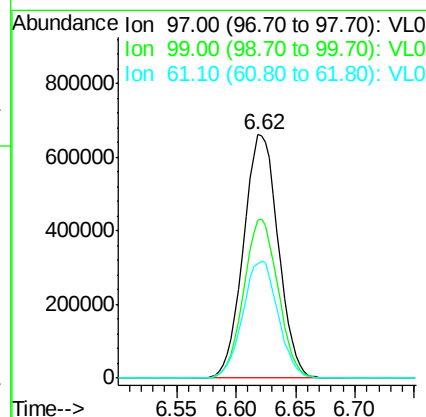
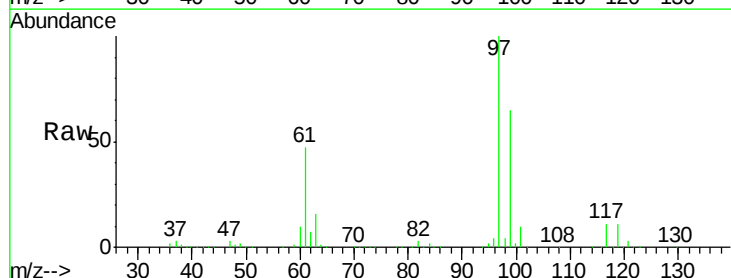
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

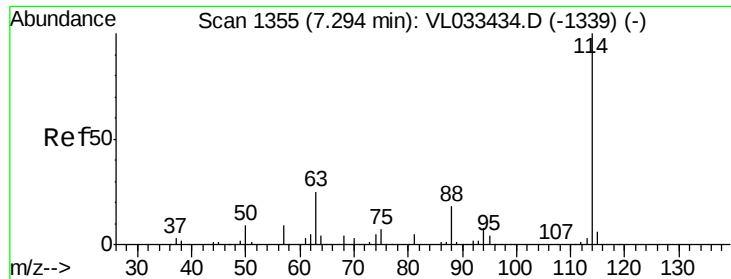
Tot Ion: 61 Resp: 802234
 Ion Ratio Lower Upper
 61 100
 96 64.8 50.6 76.0
 98 41.7 32.2 48.2



#32
 1,1,1-Trichloroethane
 Concen: 8.936 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

Tgt Ion: 97 Resp: 1340515
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.5 77.3
 61 48.6 38.8 58.2

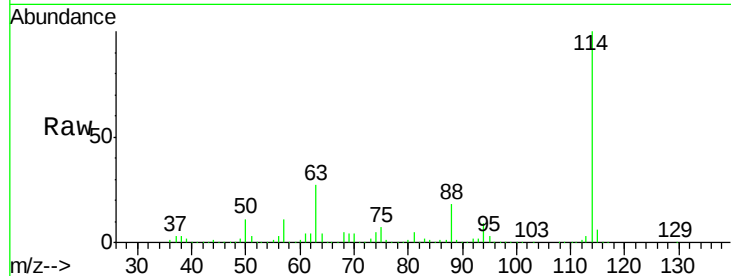




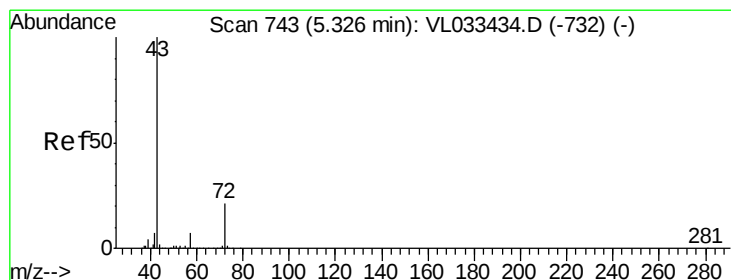
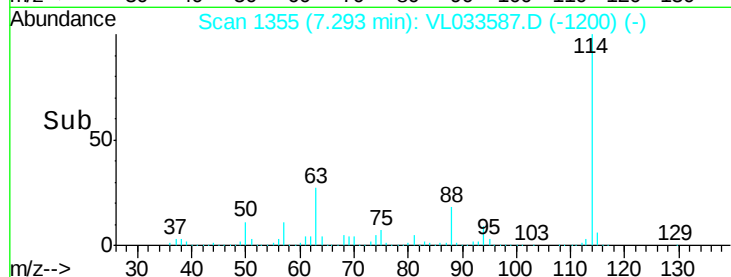
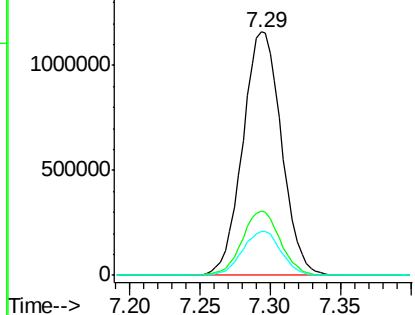
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 2229397
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.5 32.3
 88 18.1 14.5 21.7

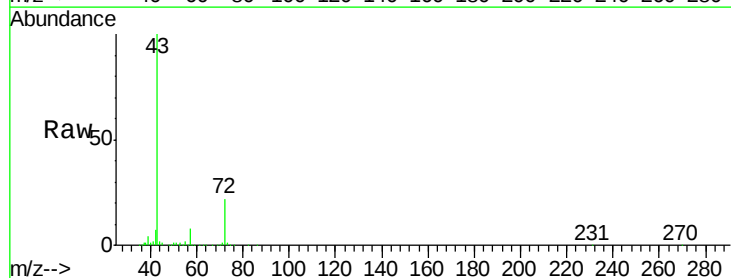


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

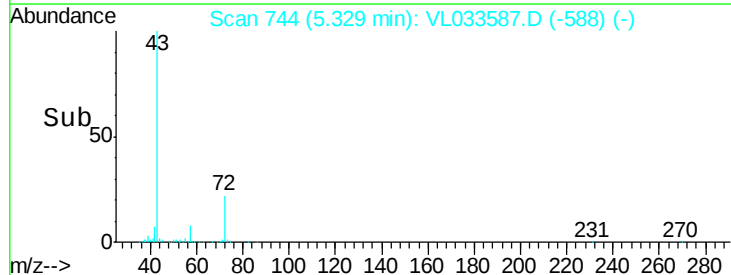
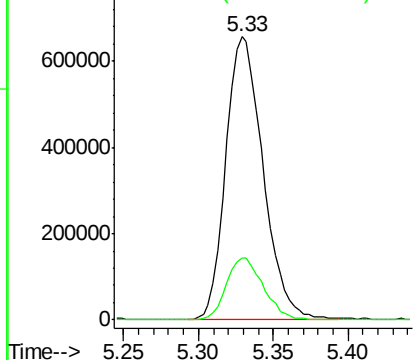


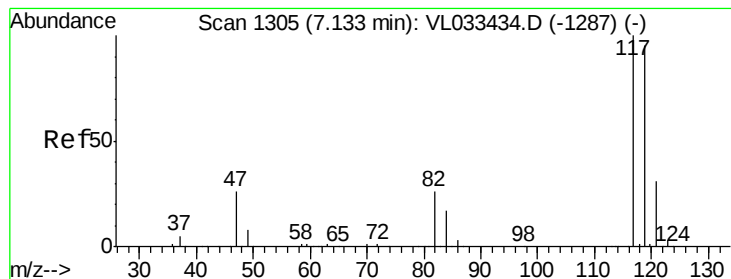
#34
 2-Butanone
 Concen: 8.474 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

Tgt Ion: 43 Resp: 1135061
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.4 26.2



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





#35

Carbon Tetrachloride

Concen: 9.242 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

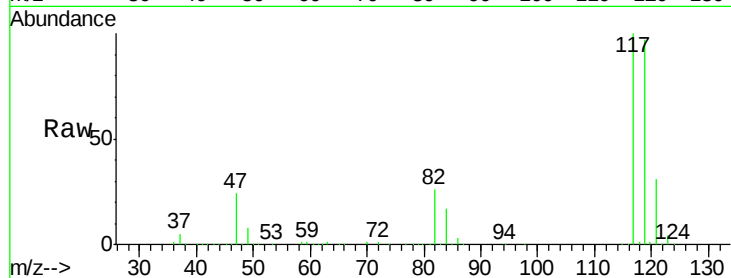
Tot Ion:117 Resp: 1459285

Ion Ratio Lower Upper

117 100

119 96.7 75.8 113.8

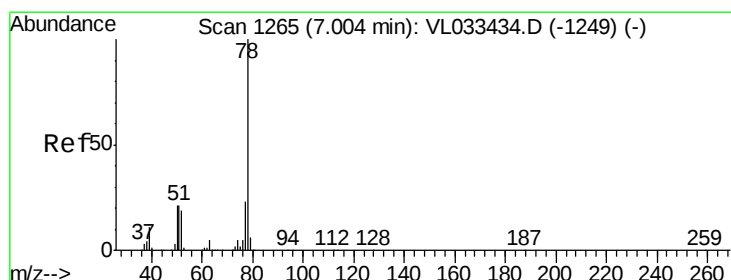
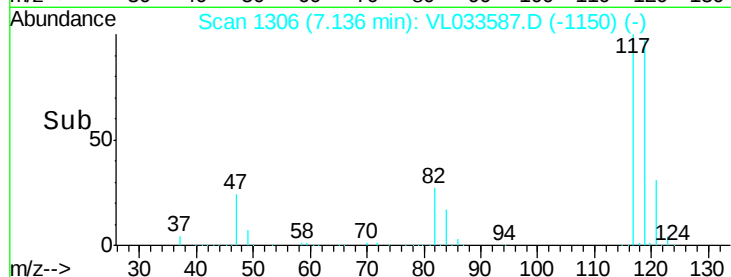
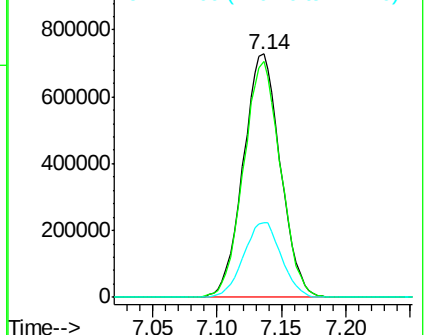
121 30.8 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.804 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

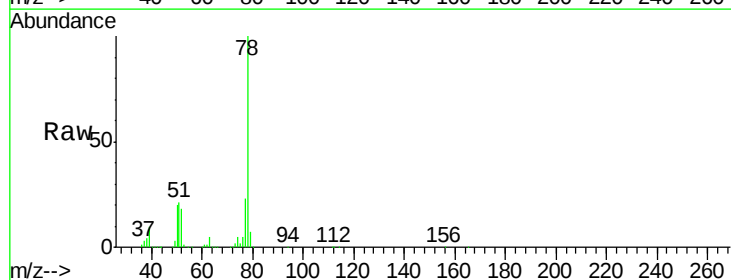
Tgt Ion: 78 Resp: 1646861

Ion Ratio Lower Upper

78 100

77 23.0 18.1 27.1

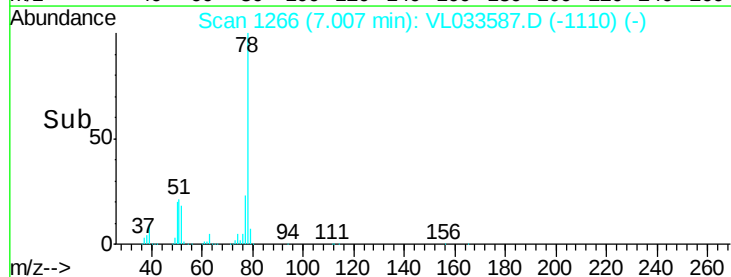
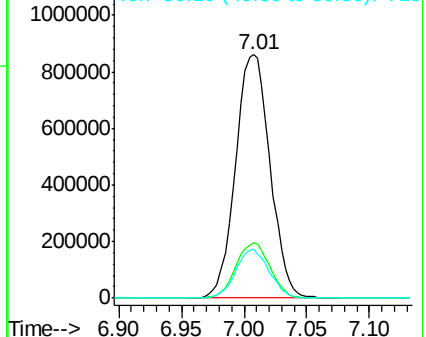
50 20.2 16.7 25.1

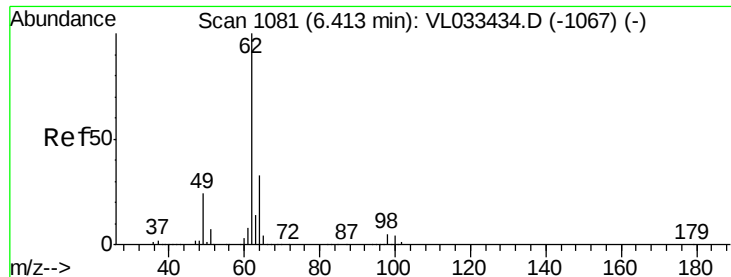


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

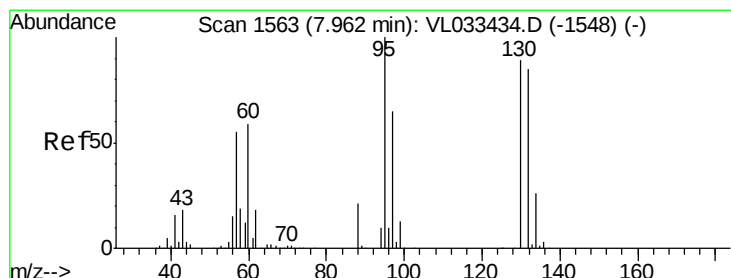
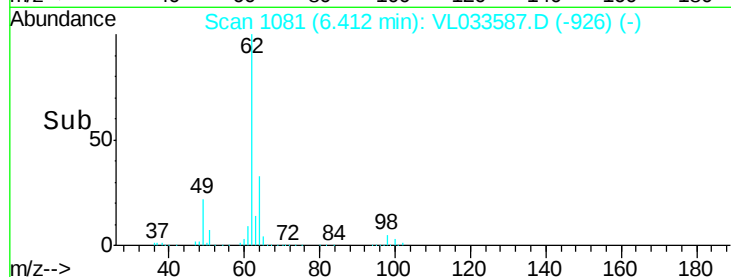
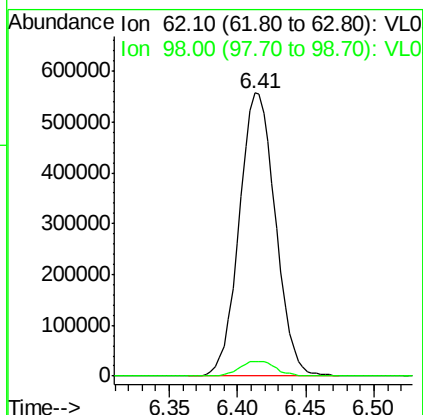
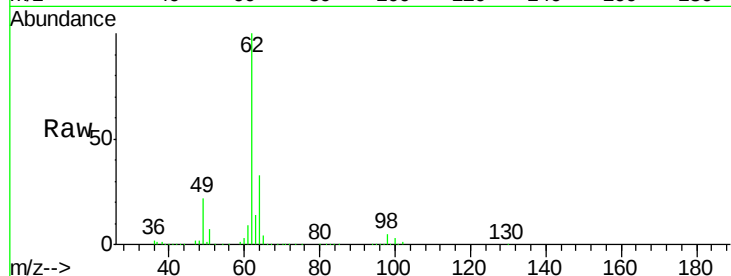




#37
 1,2-Dichloroethane
 Concen: 8.183 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

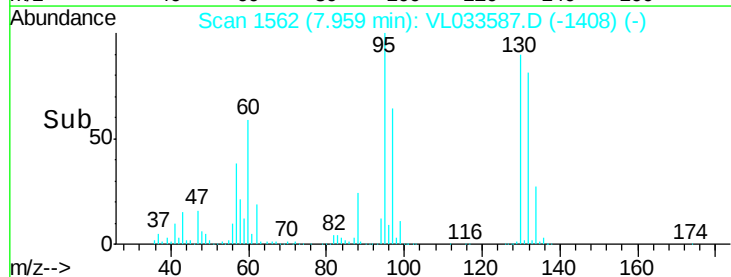
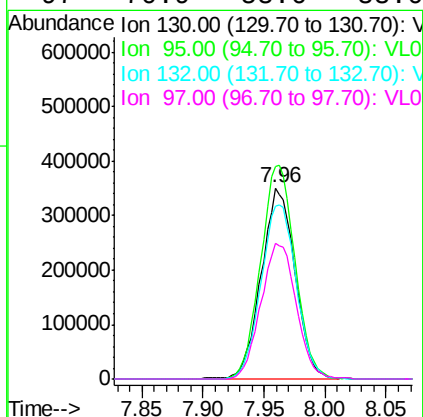
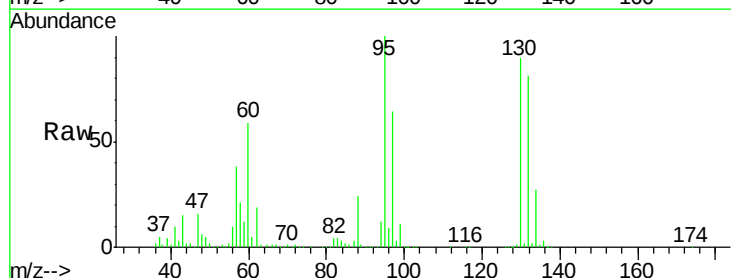
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

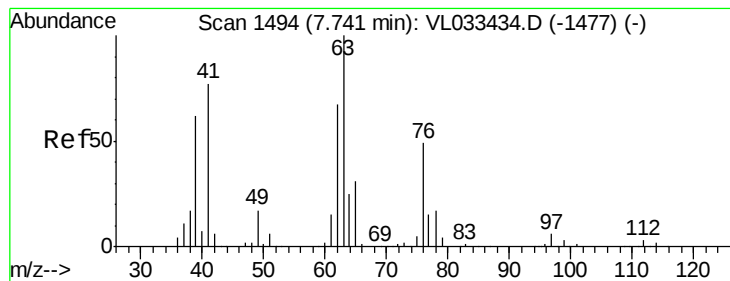
Tot Ion: 62 Resp: 1026024
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.4 6.6



#38
 Trichloroethene
 Concen: 9.621 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

Tgt Ion: 130 Resp: 677305
 Ion Ratio Lower Upper
 130 100
 95 111.0 89.8 134.8
 132 90.4 76.6 115.0
 97 70.9 58.6 88.0





#39

1,2-Dichloropropane

Concen: 8.359 ppbv

RT: 7.74 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

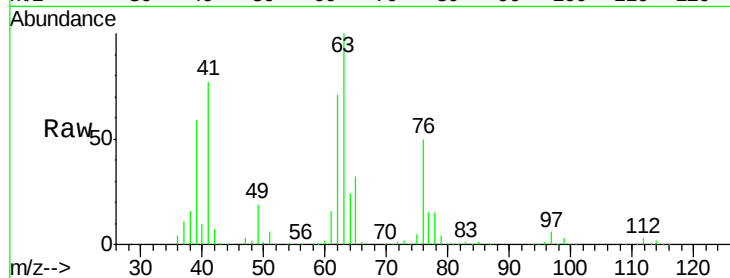
Tot Ion: 63 Resp: 612558

Ion Ratio Lower Upper

63 100

41 76.8 61.2 91.8

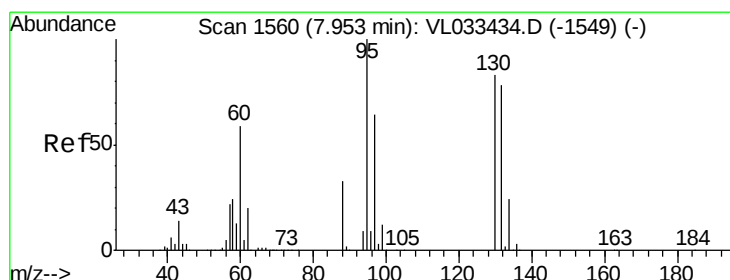
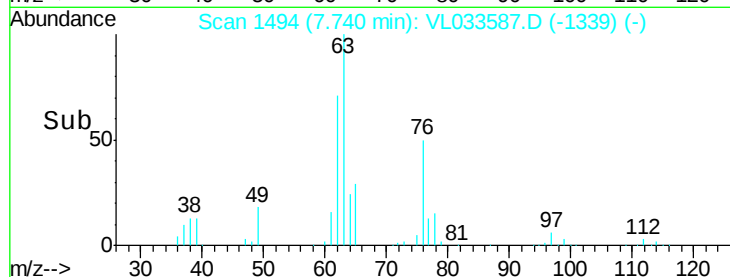
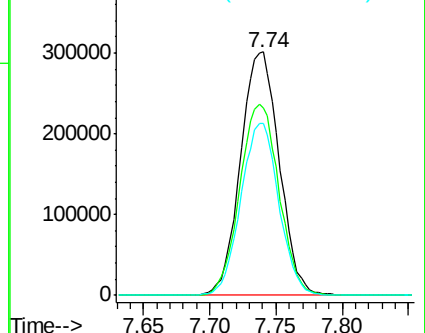
62 70.8 54.0 81.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 8.926 ppbv m

RT: 7.95 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Tgt Ion: 88 Resp: 233294

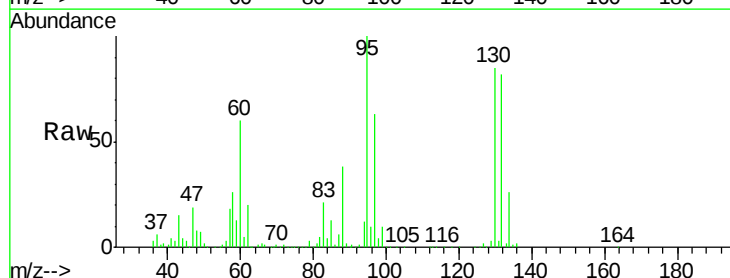
Ion Ratio Lower Upper

88 100

58 0.0 105.6 158.4#

43 0.0 216.7 325.1#

57 0.0 975.0 1462.4#

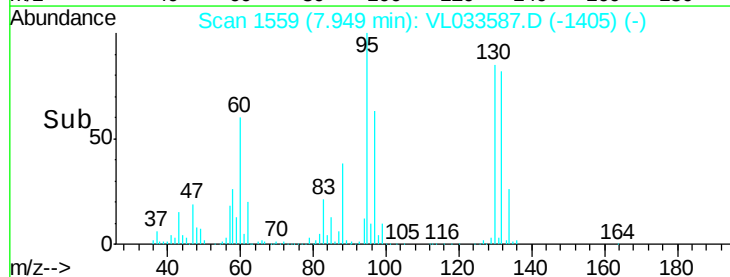
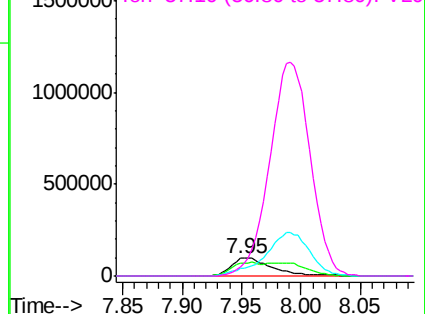


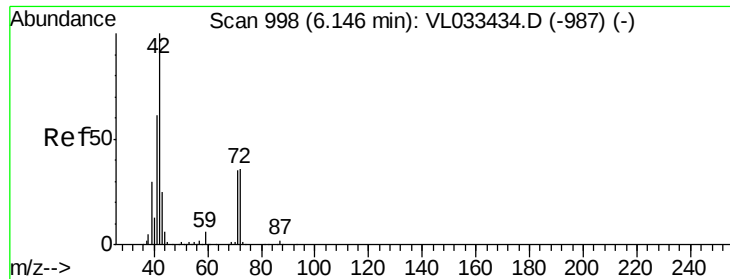
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 8.519 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

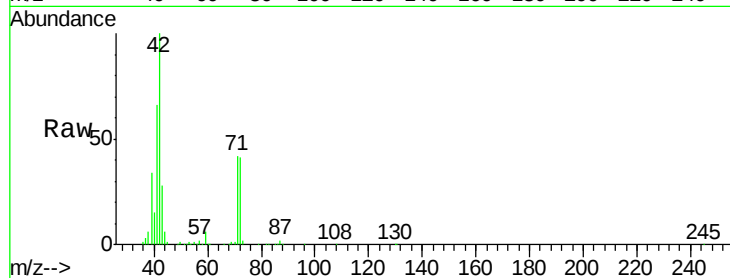
Tot Ion: 42 Resp: 627592

Ion Ratio Lower Upper

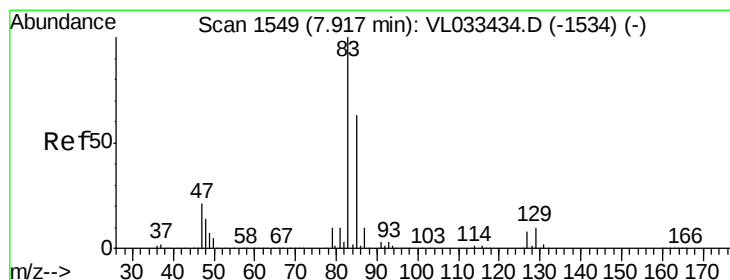
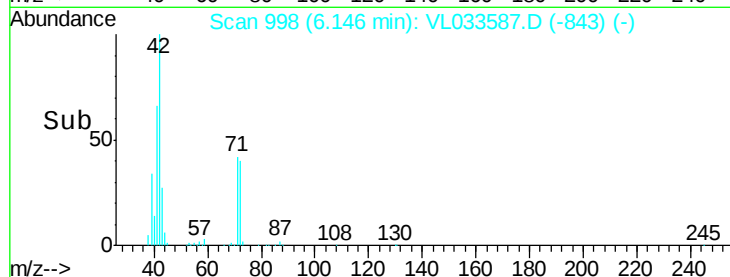
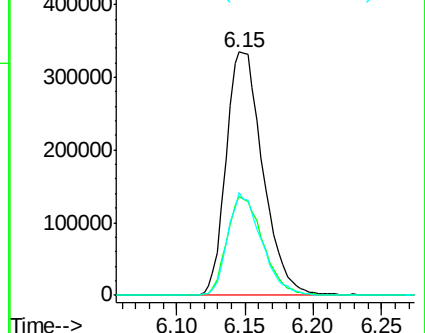
42 100

72 39.7 30.2 45.2

71 38.8 29.4 44.2



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



#42

Bromodichloromethane

Concen: 8.722 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

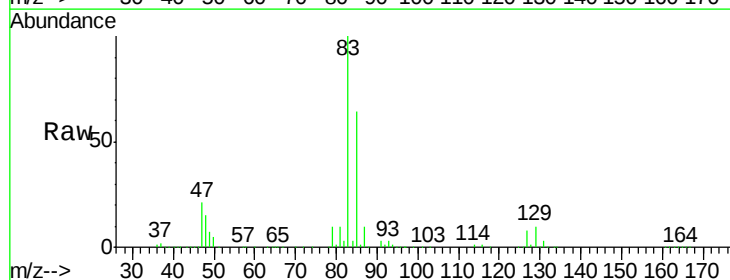
Tgt Ion: 83 Resp: 1489489

Ion Ratio Lower Upper

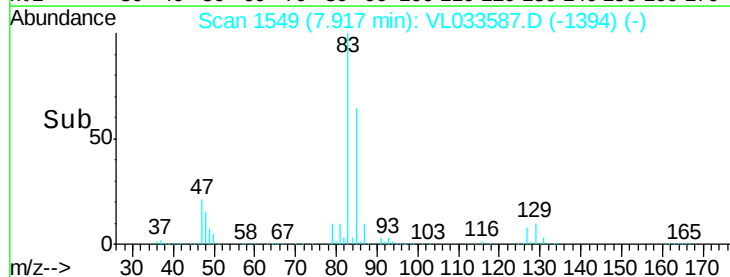
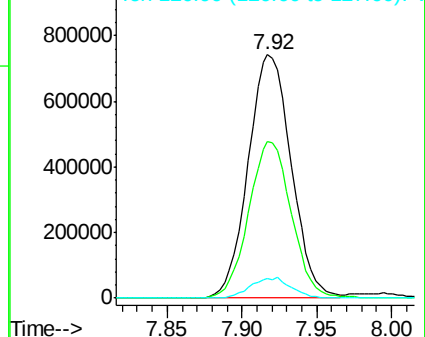
83 100

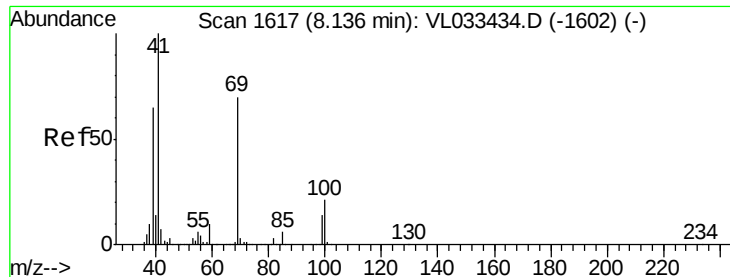
85 64.2 50.7 76.1

127 7.9 6.6 9.8



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

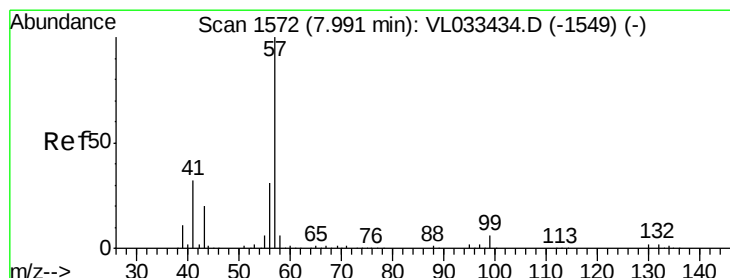
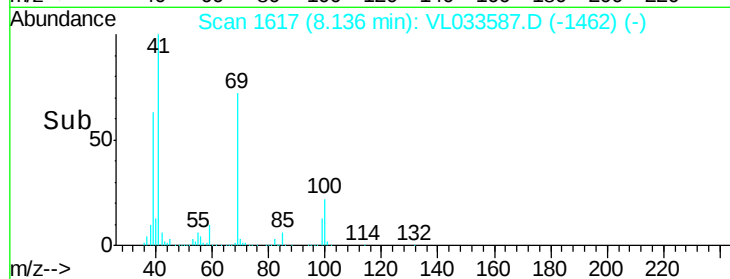
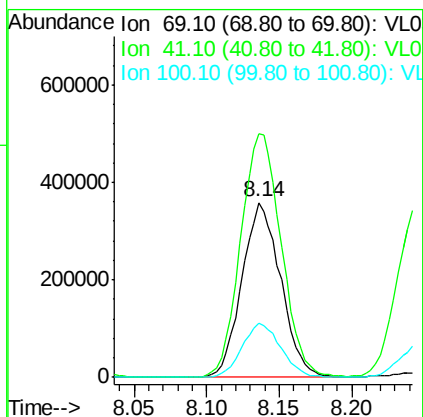
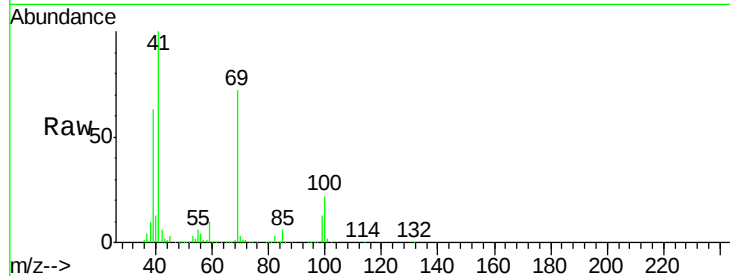




#43
Methvl Methacrylate
Concen: 8.780 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

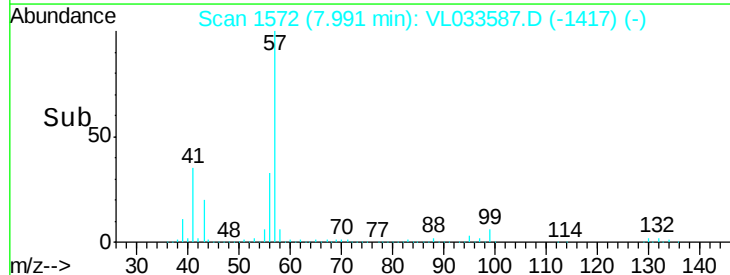
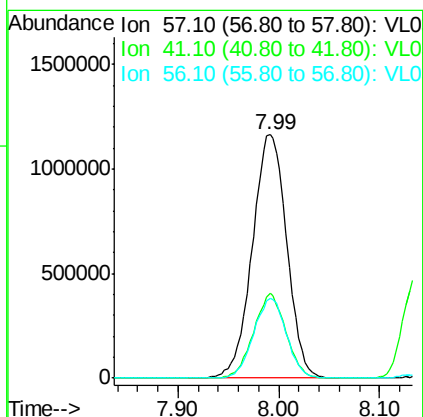
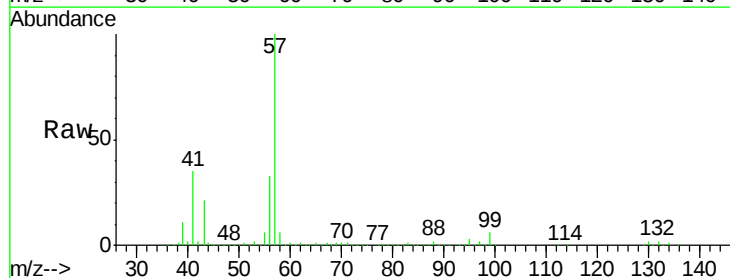
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

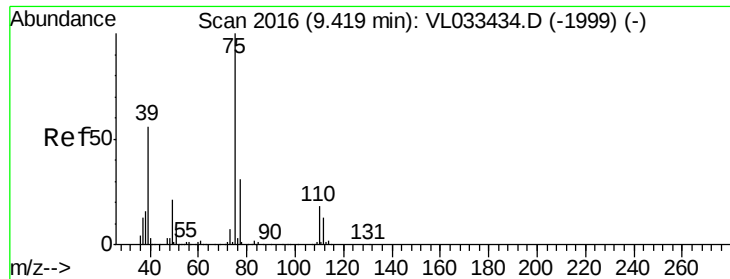
Tot Ion: 69 Resp: 666908
Ion Ratio Lower Upper
69 100
41 145.4 116.6 174.8
100 30.9 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 8.429 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

Tgt Ion: 57 Resp: 2755474
Ion Ratio Lower Upper
57 100
41 32.6 26.0 39.0
56 31.1 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 9.964 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

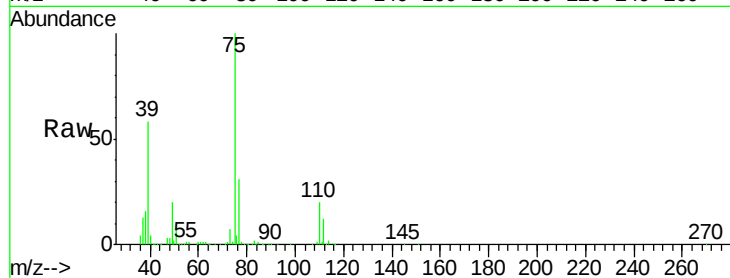
VSTDCCC010

Tot Ion: 75 Resp: 929200

Ion Ratio Lower Upper

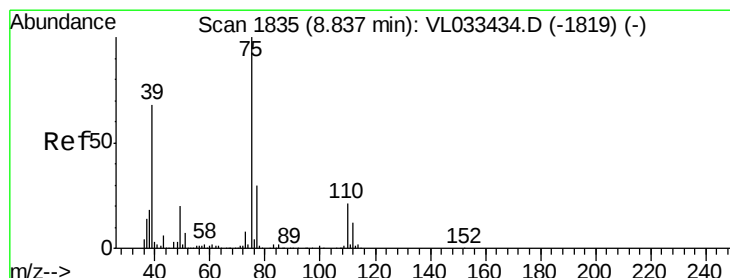
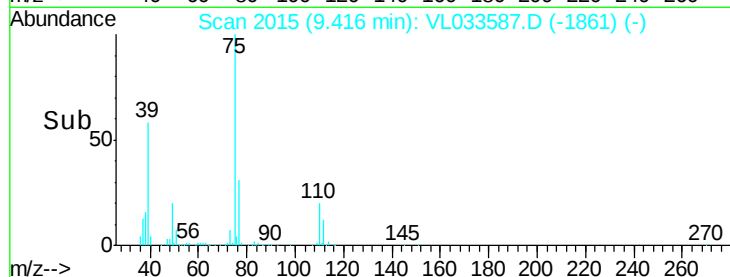
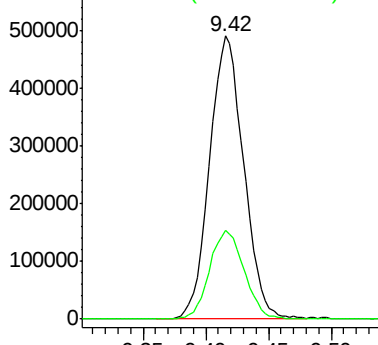
75 100

77 31.2 24.5 36.7



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 9.650 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

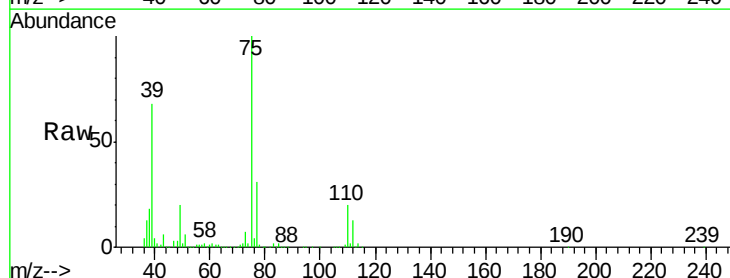
Tgt Ion: 75 Resp: 1050893

Ion Ratio Lower Upper

75 100

39 67.7 54.1 81.1

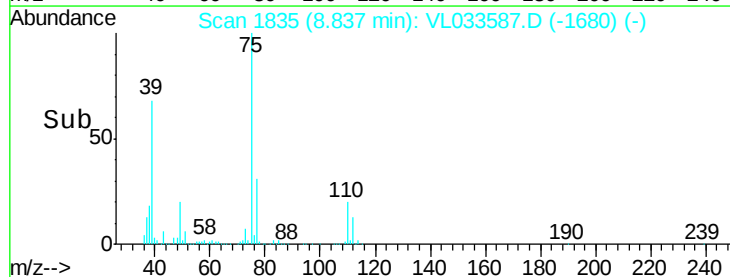
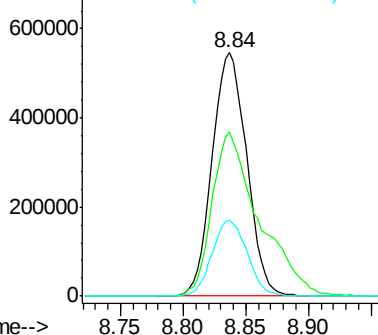
77 31.4 23.9 35.9

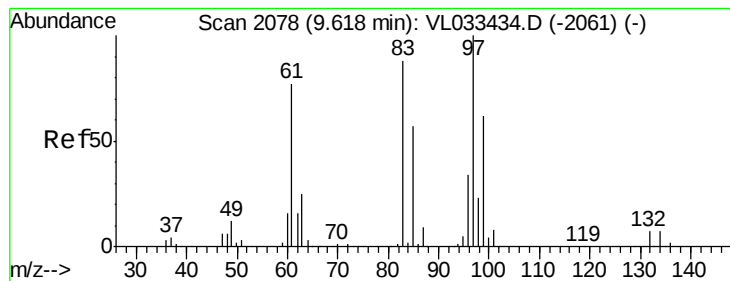


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 8.359 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 695556

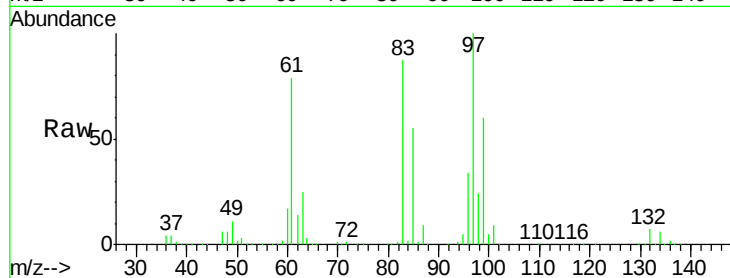
Ion Ratio Lower Upper

97 100

83 87.3 70.5 105.7

85 54.8 45.6 68.4

99 60.2 49.4 74.0

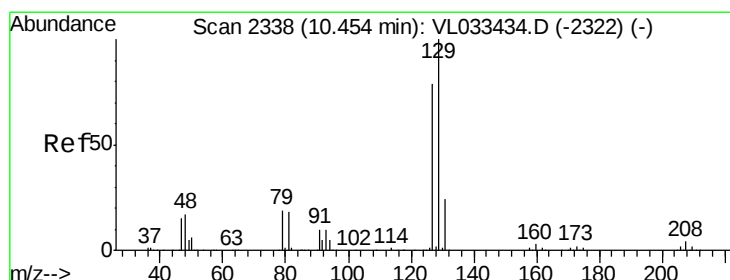
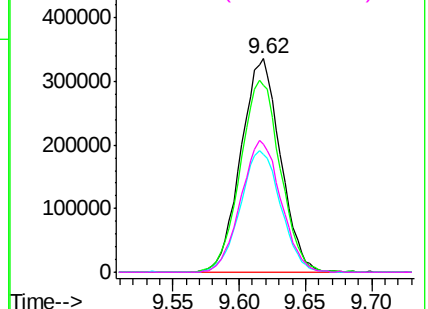
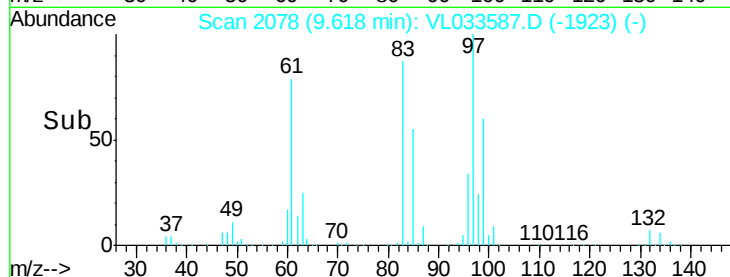


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.292 ppbv

RT: 10.45 min Scan# 2337

Delta R.T. -0.00 min

Lab File: VL033587.D

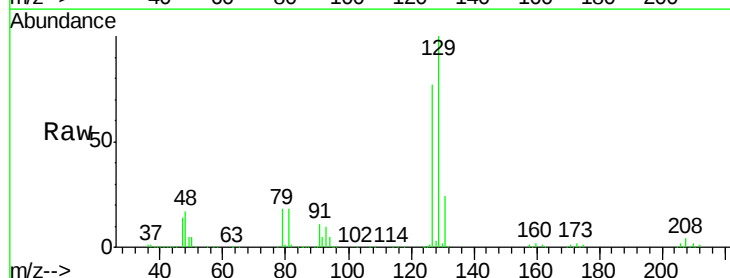
Acq: 16 Apr 2019 9:58

Tgt Ion: 129 Resp: 1304104

Ion Ratio Lower Upper

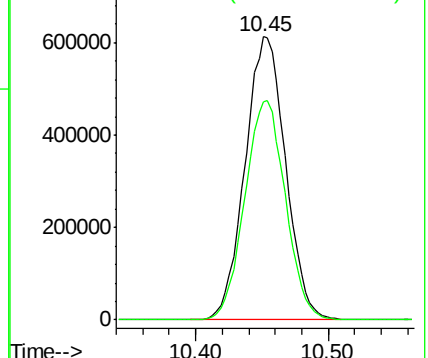
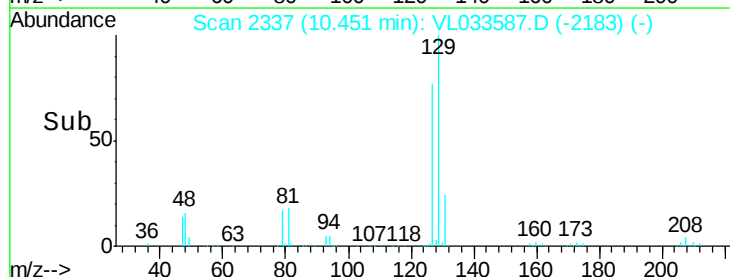
129 100

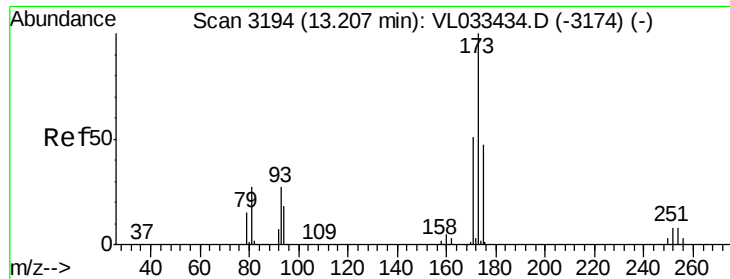
127 77.6 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.976 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

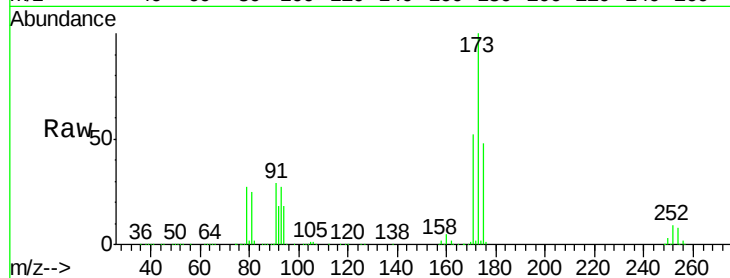
Tot Ion:173 Resp: 1203501

Ion Ratio Lower Upper

173 100

175 48.7 39.3 58.9

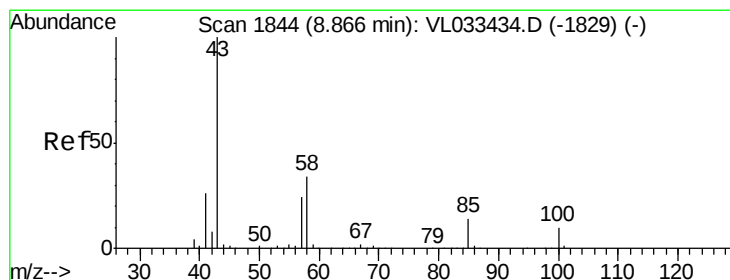
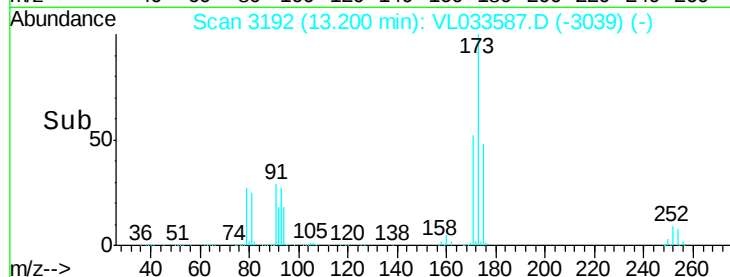
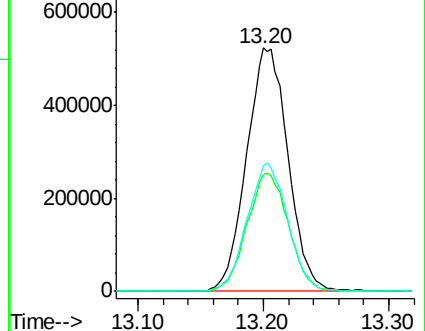
171 51.7 41.2 61.8



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.699 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033587.D

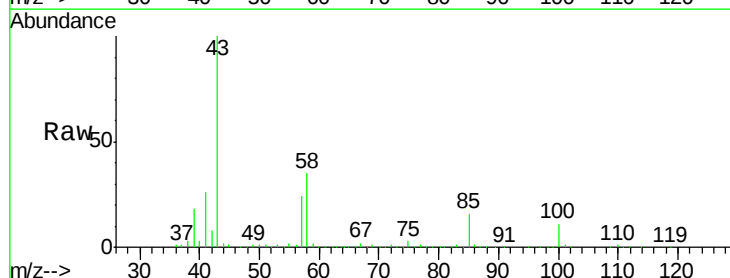
Acq: 16 Apr 2019 9:58

Tgt Ion: 43 Resp: 1706186

Ion Ratio Lower Upper

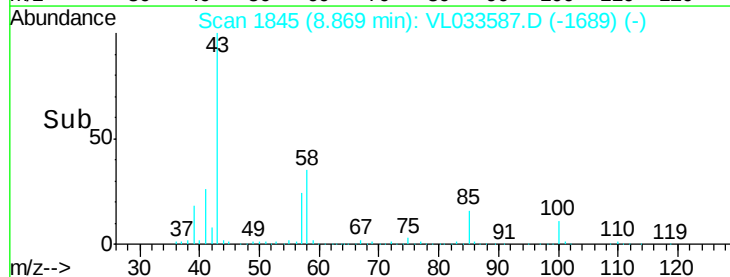
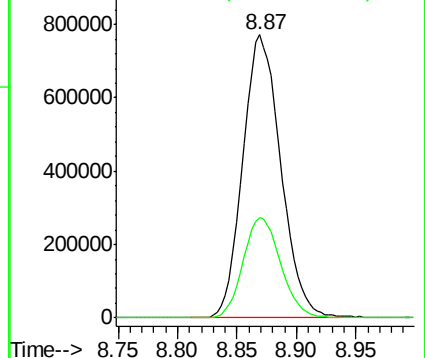
43 100

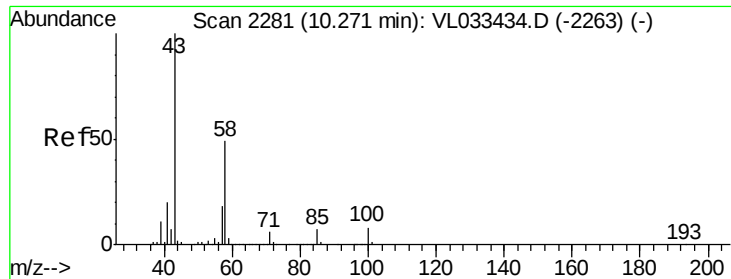
58 35.2 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

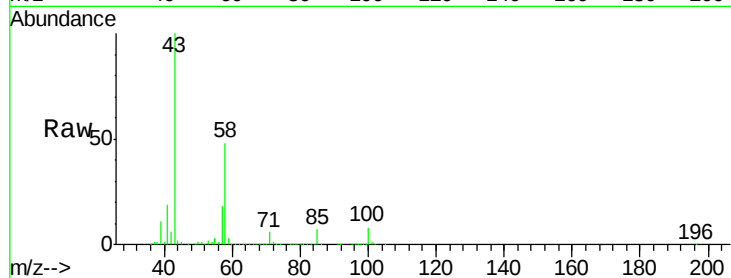




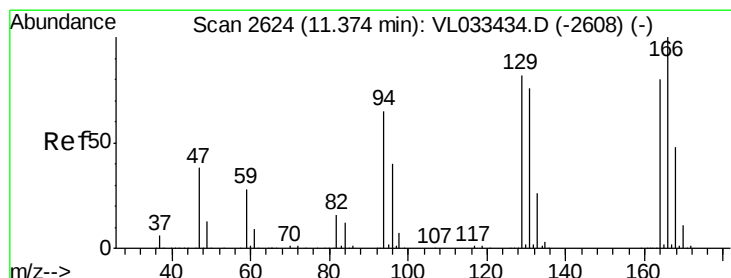
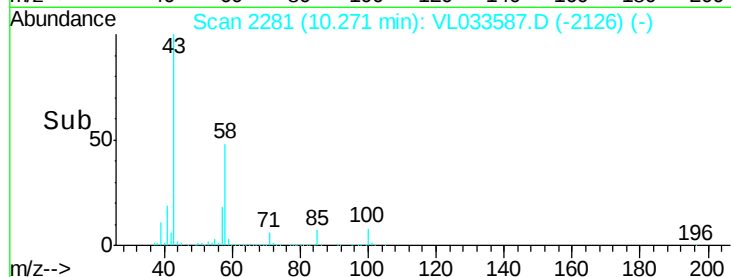
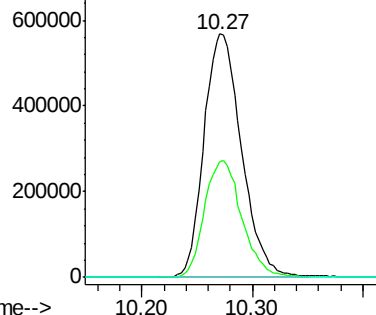
#51
2-Hexanone
Concen: 9.170 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1341575
Ion Ratio Lower Upper
43 100
58 47.6 38.2 57.2
98 0.1 0.2 0.2#

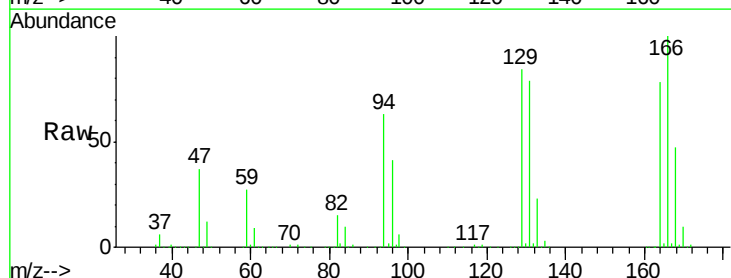


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

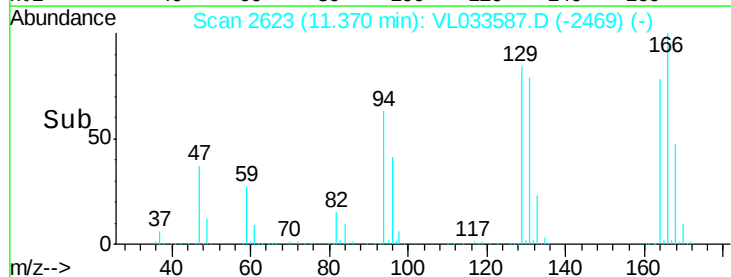
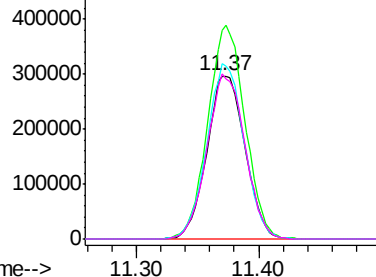


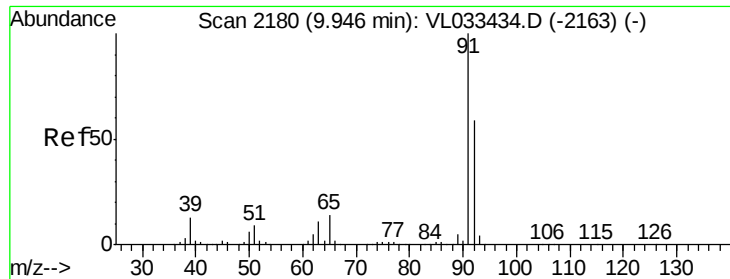
#52
Tetrachloroethene
Concen: 9.080 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

Tgt Ion: 164 Resp: 640834
Ion Ratio Lower Upper
164 100
166 127.7 99.5 149.3
129 107.7 81.4 122.2
131 101.6 75.6 113.4



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: 9.038 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

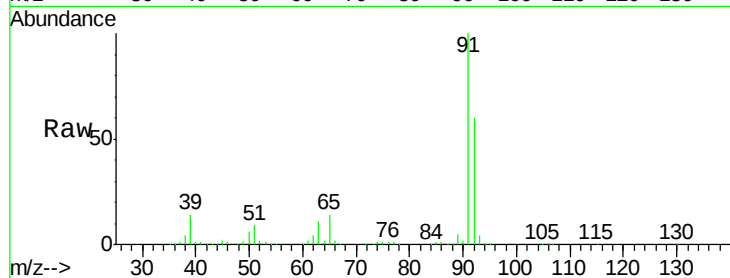
VSTDCCC010

Tot Ion: 91 Resp: 1964592

Ion Ratio Lower Upper

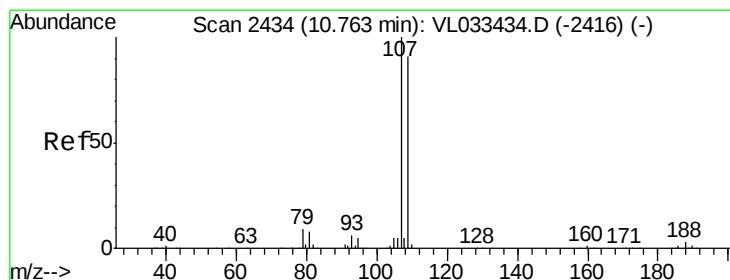
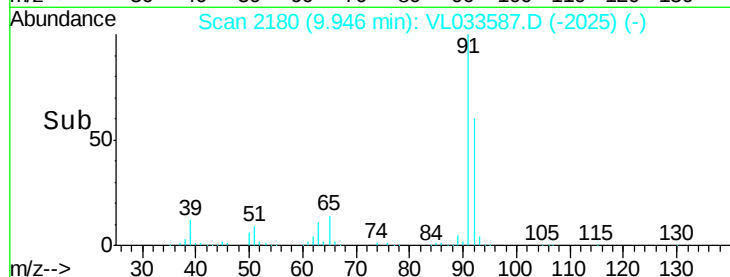
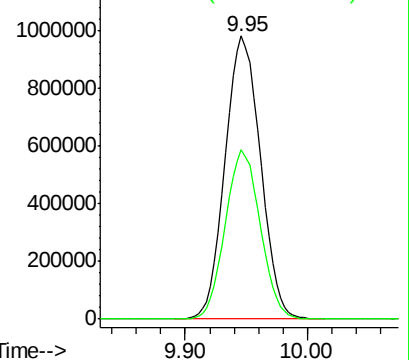
91 100

92 59.1 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 8.530 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033587.D

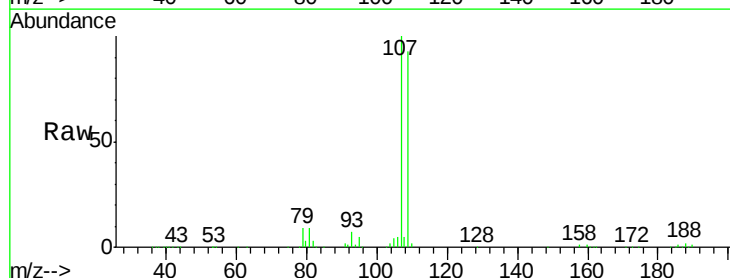
Acq: 16 Apr 2019 9:58

Tgt Ion: 107 Resp: 1110140

Ion Ratio Lower Upper

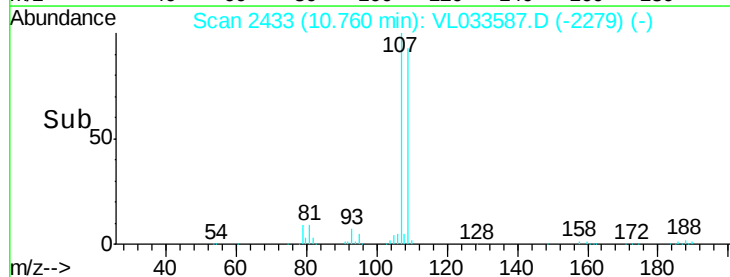
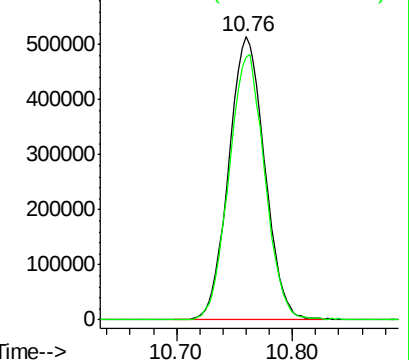
107 100

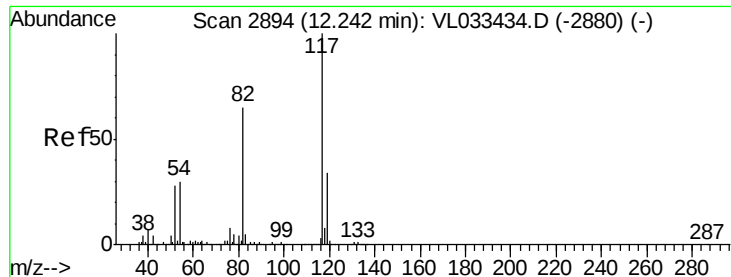
109 93.0 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

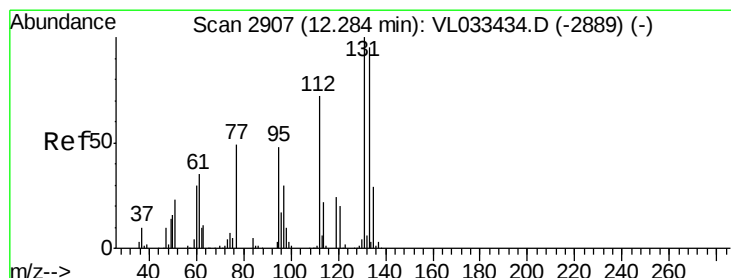
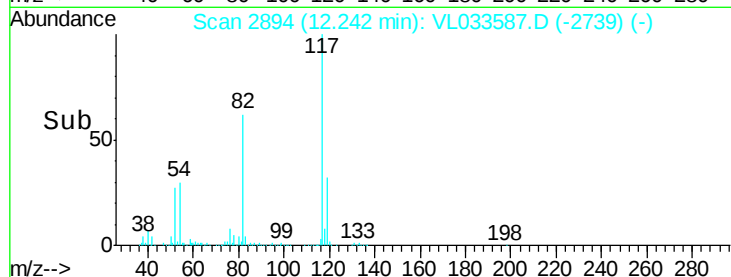
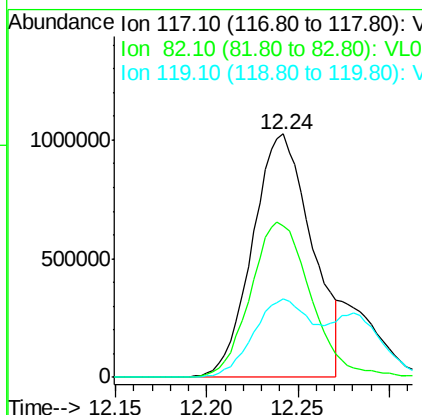
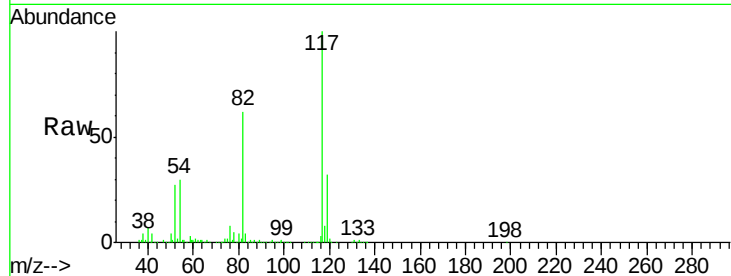




#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

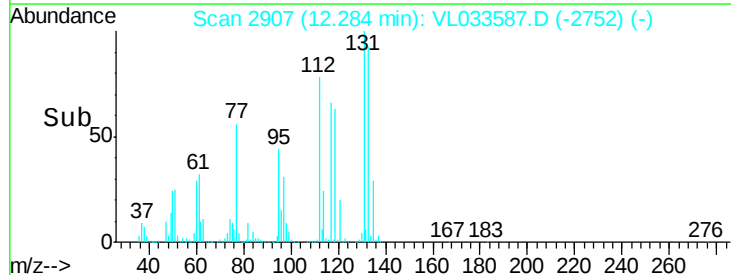
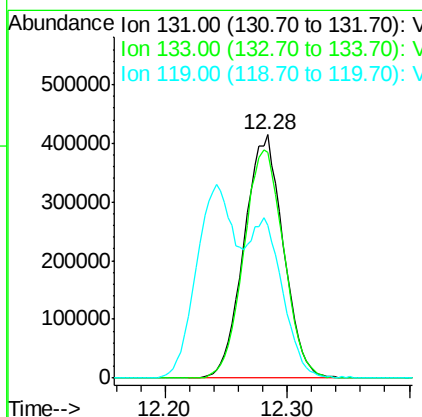
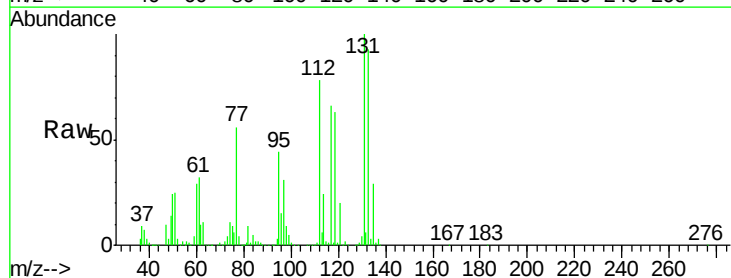
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

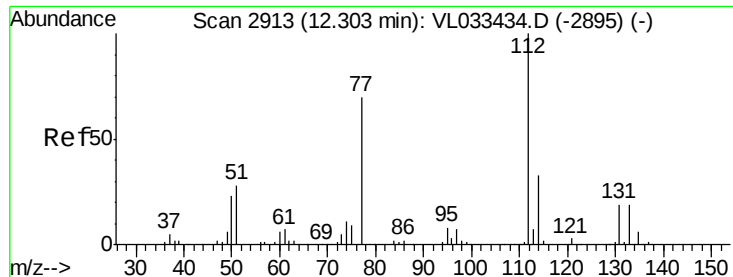
Tot Ion:117 Resp: 2315479
Ion Ratio Lower Upper
117 100
82 65.4 51.5 77.3
119 54.8 25.5 38.3#



#56
1,1,1,2-Tetrachloroethane
Concen: 8.657 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

Tgt Ion:131 Resp: 918721
Ion Ratio Lower Upper
131 100
133 96.0 76.2 114.4
119 55.8 45.0 67.6

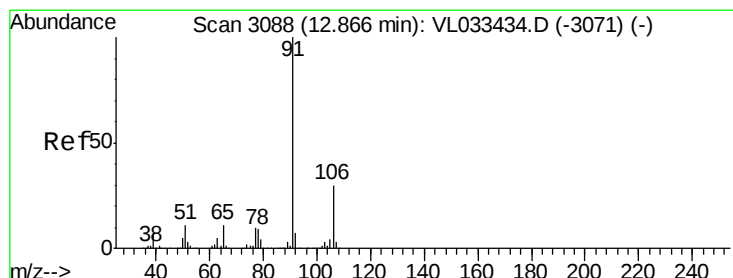
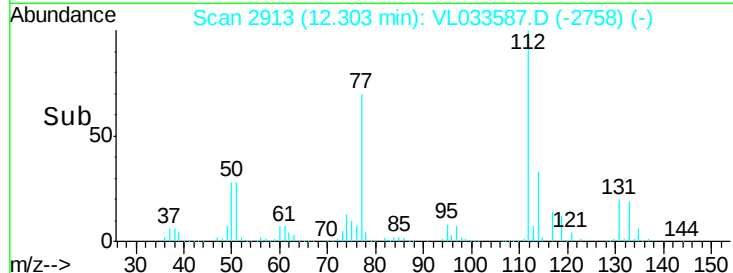
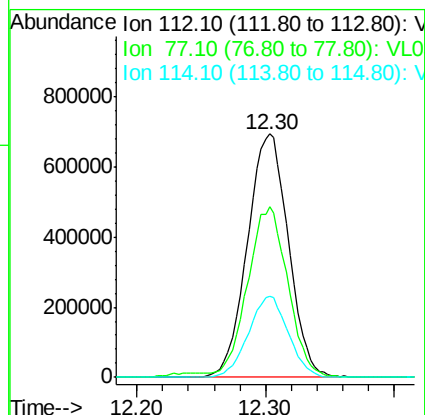
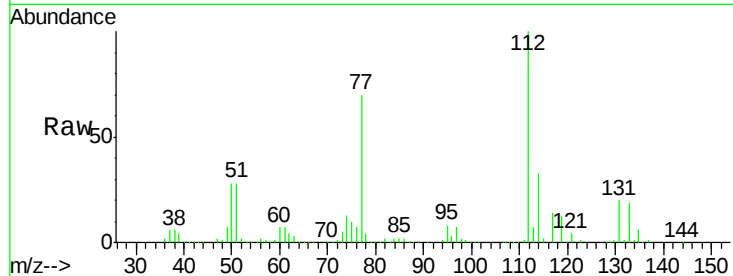




#57
Chlorobenzene
Concen: 8.558 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

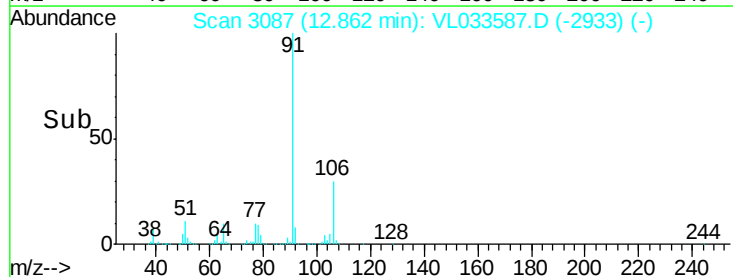
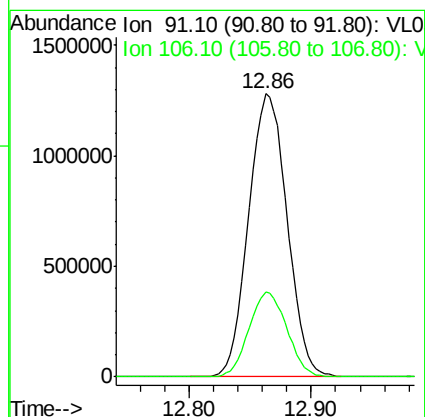
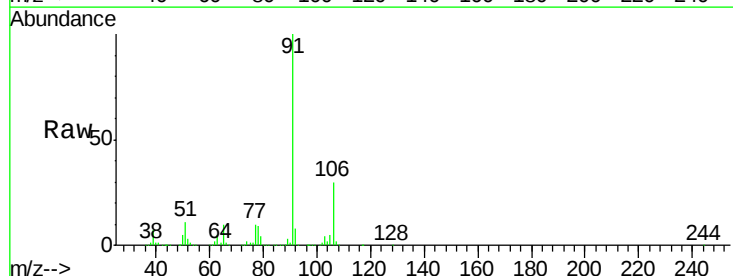
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

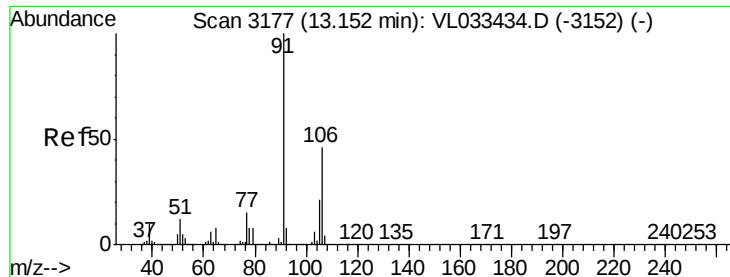
Tot Ion:112 Resp: 1538601
Ion Ratio Lower Upper
112 100
77 69.9 57.3 85.9
114 33.0 29.8 36.4



#58
Ethyl Benzene
Concen: 9.015 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

Tgt Ion: 91 Resp: 2787507
Ion Ratio Lower Upper
91 100
106 30.3 23.8 35.6

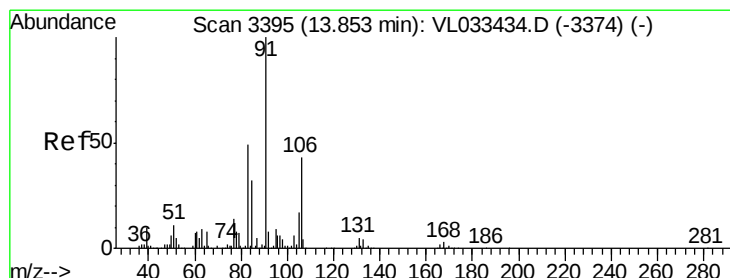
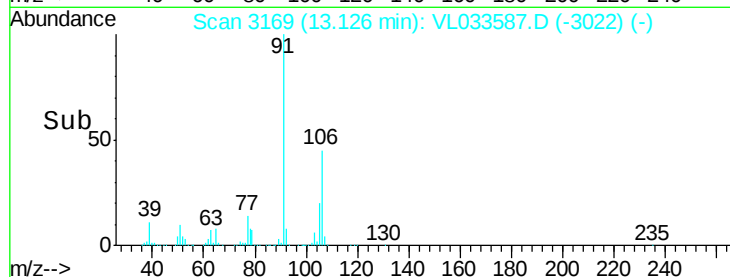
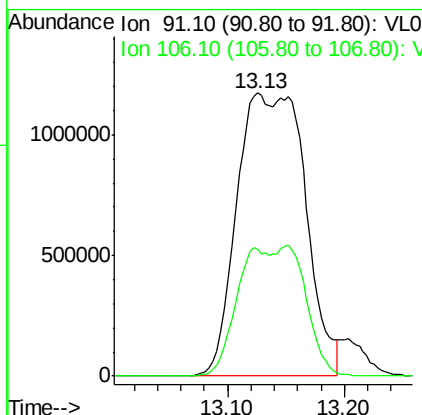
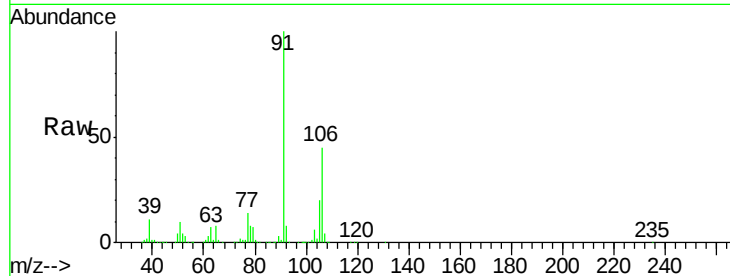




#59
m/p-Xylene
Concen: 17.256 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

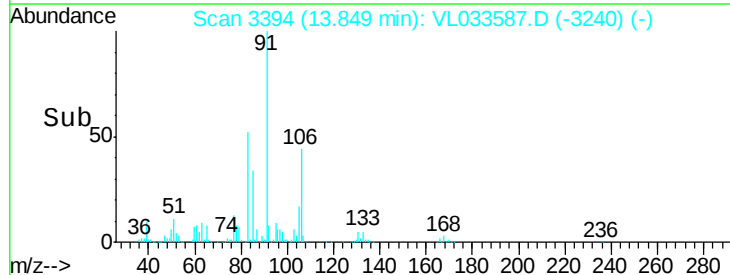
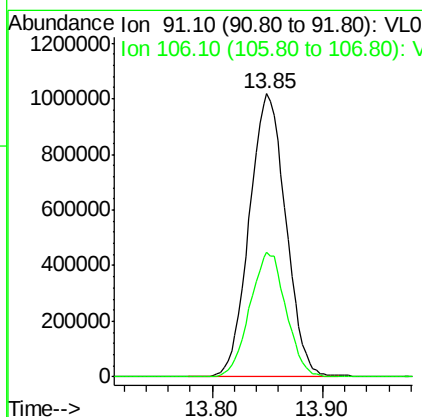
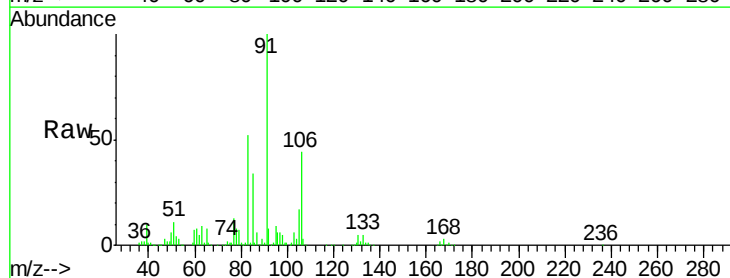
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

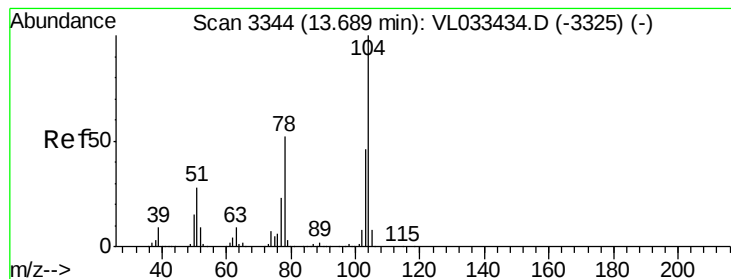
Tot Ion: 91 Resp: 4765872
Ion Ratio Lower Upper
91 100
106 45.0 0.0 0.0#



#60
o-Xylene
Concen: 8.726 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033587.D
Acq: 16 Apr 2019 9:58

Tgt Ion: 91 Resp: 2330516
Ion Ratio Lower Upper
91 100
106 43.9 21.4 64.3





#61

Stvrene

Concen: 9.420 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

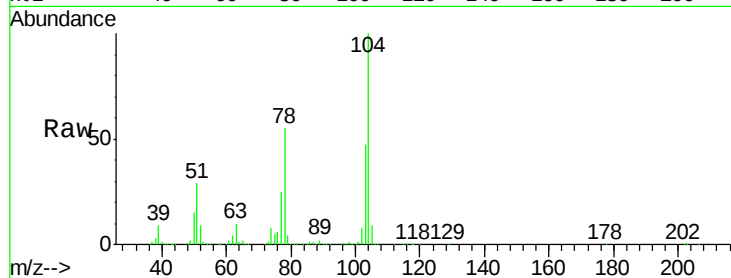
Tot Ion:104 Resp: 1726653

Ion Ratio Lower Upper

104 100

78 53.8 43.2 64.8

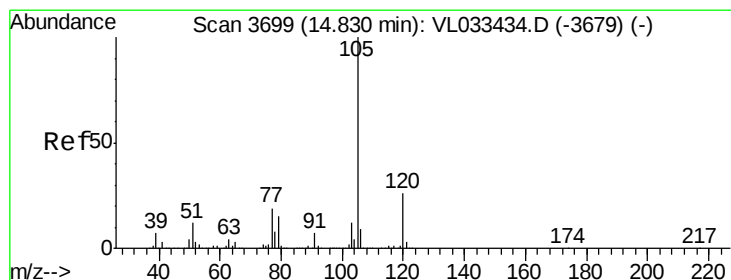
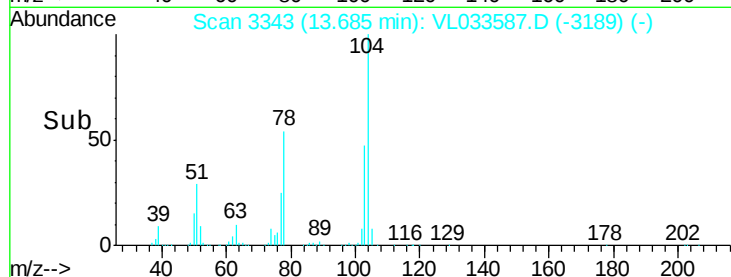
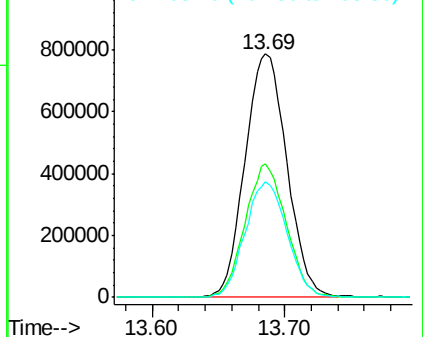
103 47.9 37.8 56.8



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: 8.715 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL033587.D

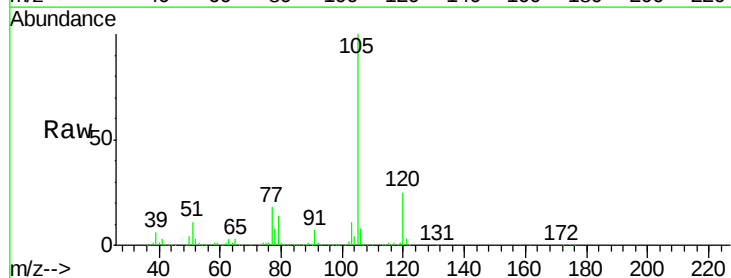
Acq: 16 Apr 2019 9:58

Tgt Ion:105 Resp: 3296045

Ion Ratio Lower Upper

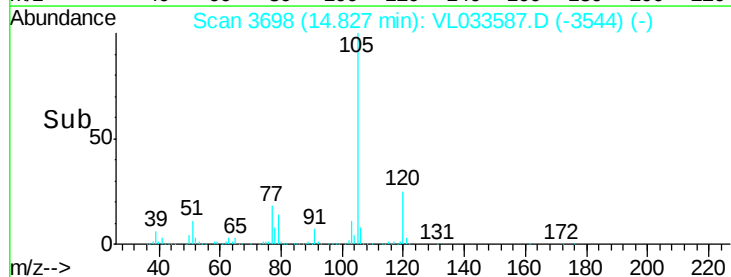
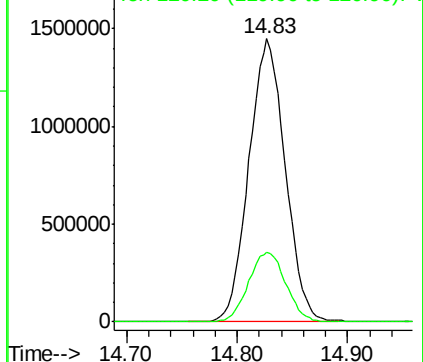
105 100

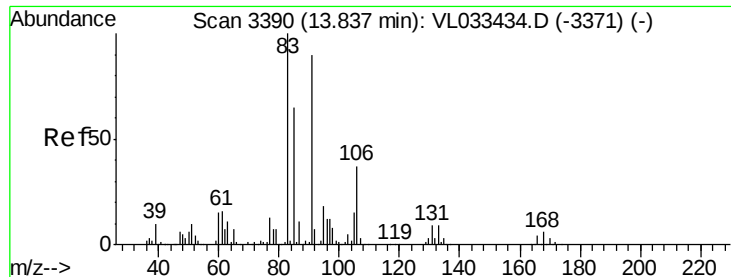
120 25.4 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 8.367 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

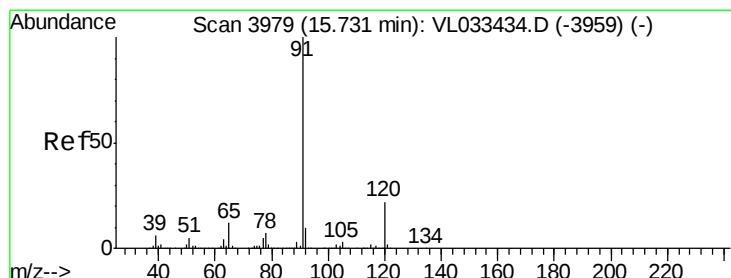
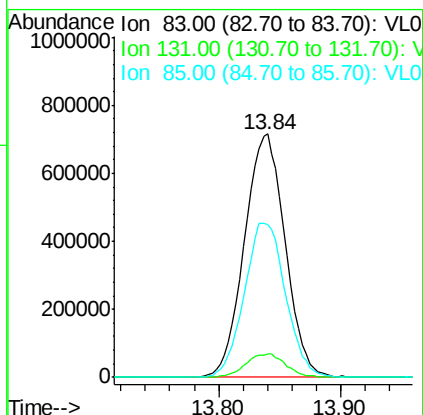
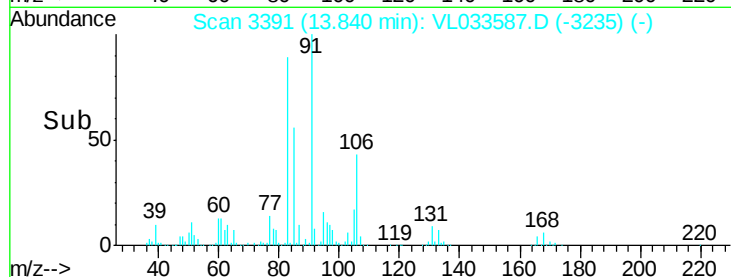
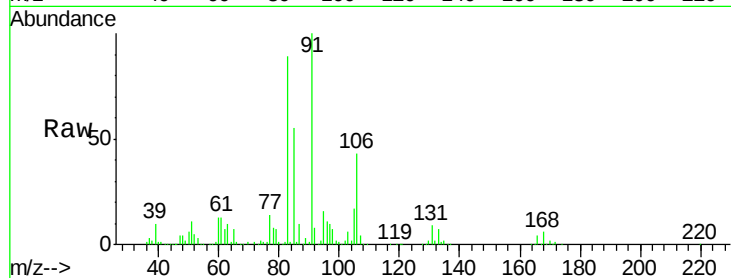
Tot Ion: 83 Resp: 1645345

Ion Ratio Lower Upper

83 100

131 9.6 4.7 14.0

85 64.6 32.7 98.1



#64

n-propylbenzene

Concen: 8.928 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.01 min

Lab File: VL033587.D

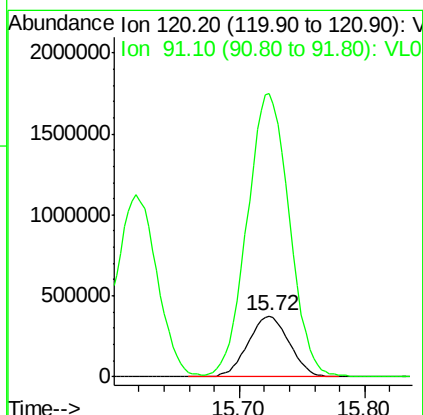
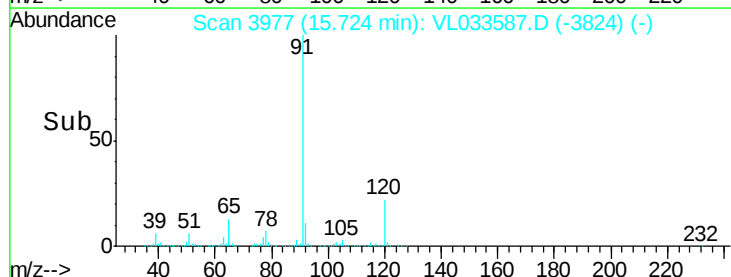
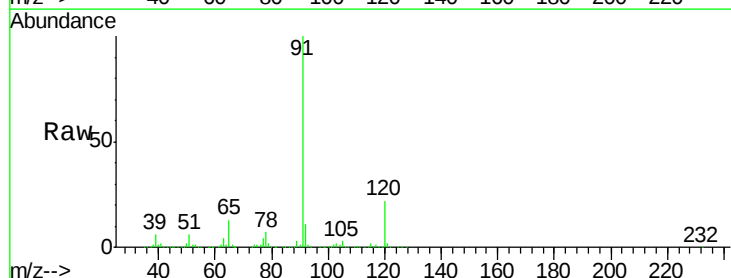
Acq: 16 Apr 2019 9:58

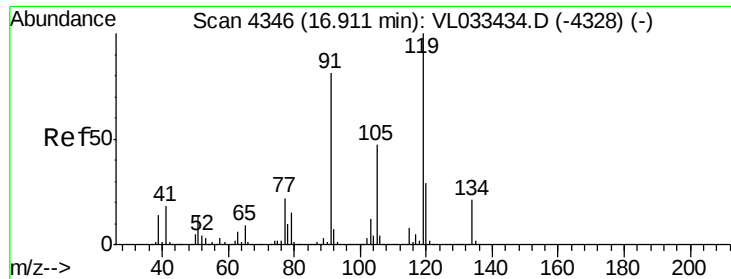
Tgt Ion: 120 Resp: 856826

Ion Ratio Lower Upper

120 100

91 478.9 387.4 581.2





#65

tert-Butylbenzene

Concen: 8.991 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

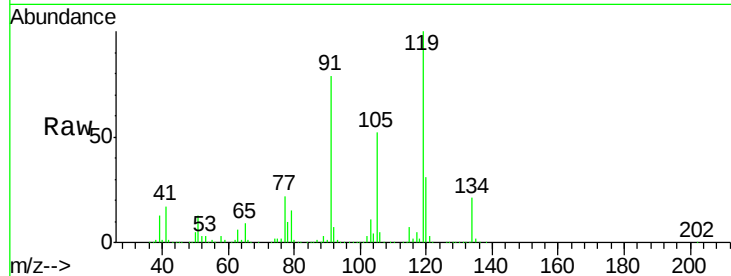
Tot Ion:119 Resp: 2996452

Ion Ratio Lower Upper

119 100

91 82.3 66.4 99.6

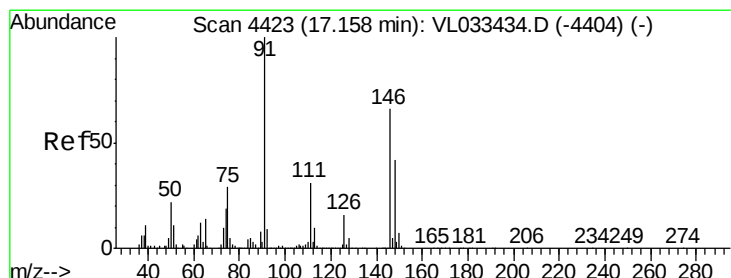
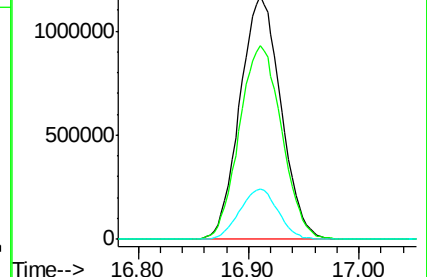
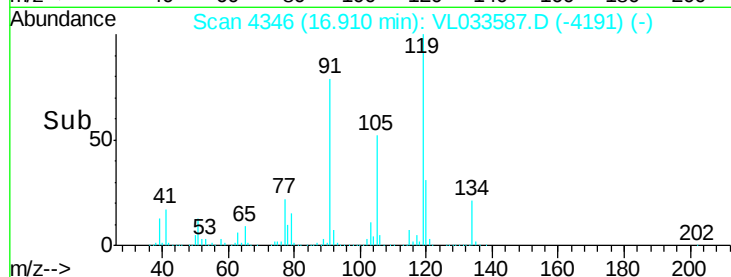
134 19.7 15.5 23.3



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: 11.144 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

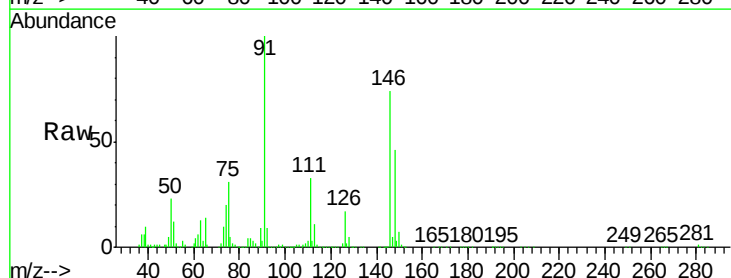
Tgt Ion: 91 Resp: 1727070

Ion Ratio Lower Upper

91 100

126 17.1 13.0 19.6

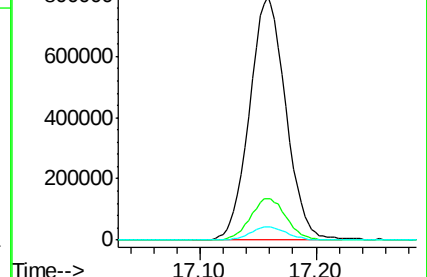
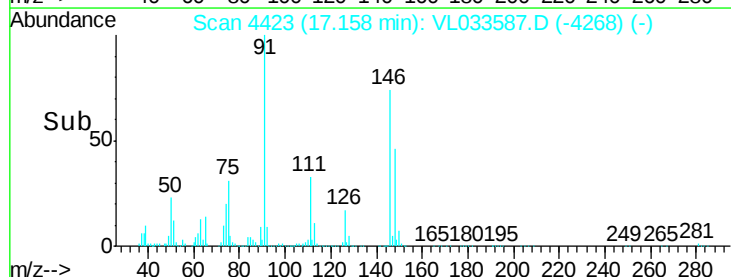
128 5.4 4.2 6.2

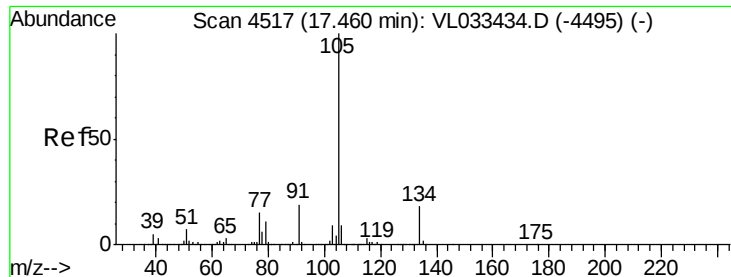


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.932 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

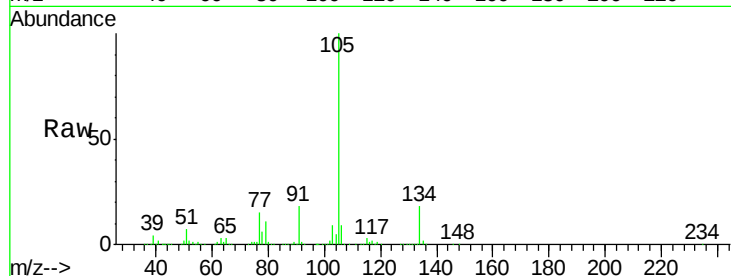
VSTDCCC010

Tot Ion:105 Resp: 4233314

Ion Ratio Lower Upper

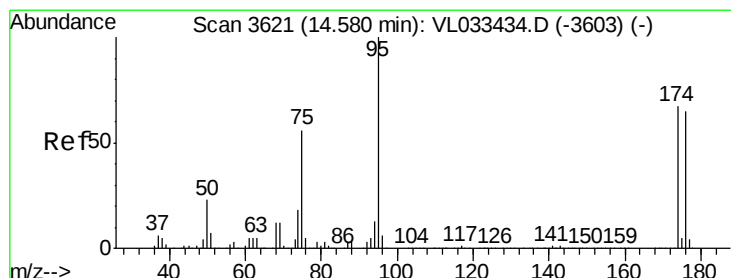
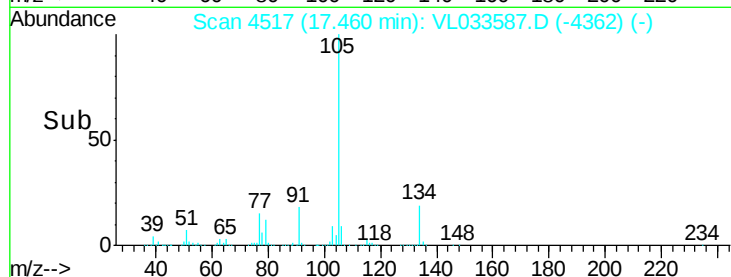
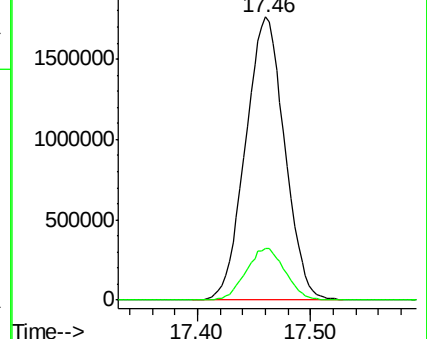
105 100

134 18.3 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.065 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

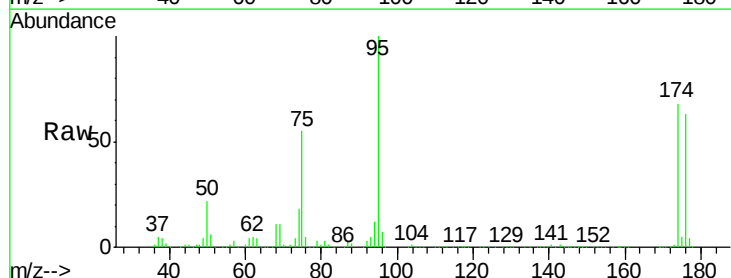
Tgt Ion: 95 Resp: 1827011

Ion Ratio Lower Upper

95 100

174 67.7 52.9 79.3

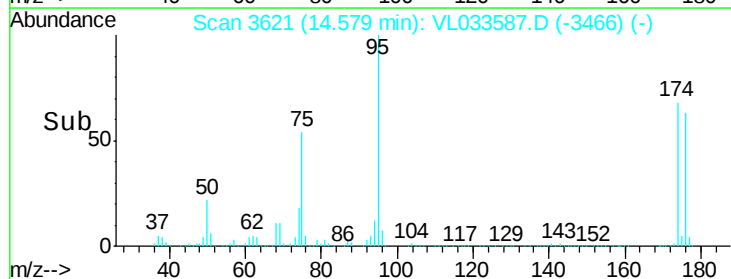
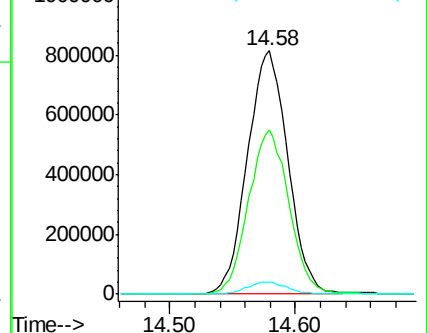
175 5.0 3.8 5.6

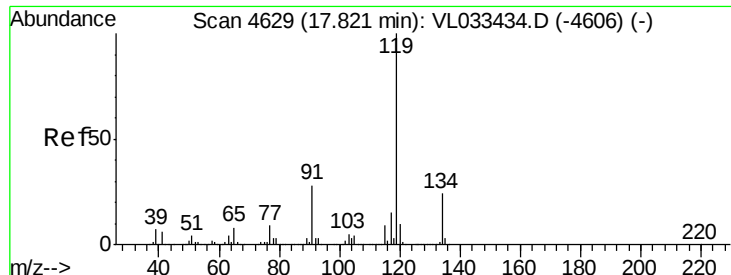


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

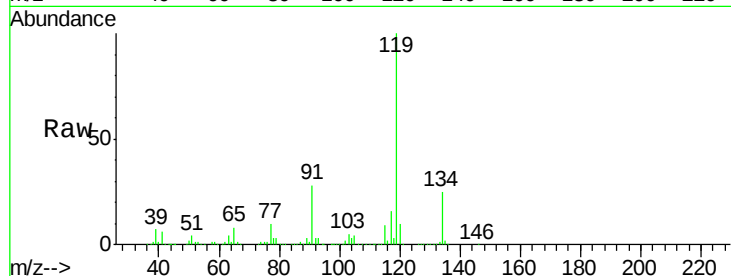




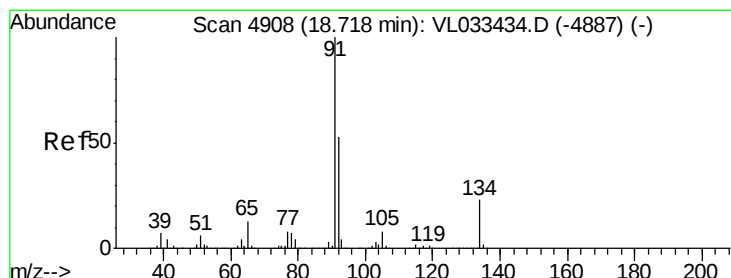
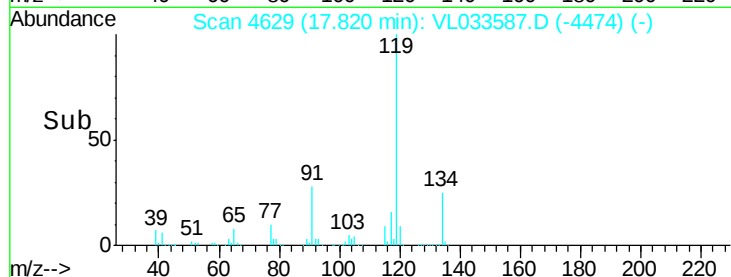
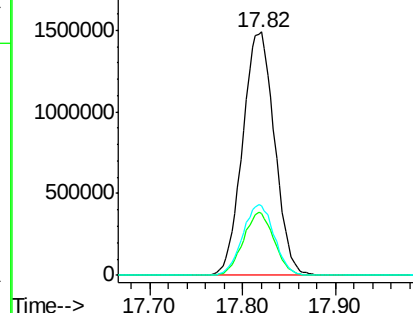
#69
 p-Isopropyltoluene
 Concen: 9.188 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 3545738
 Ion Ratio Lower Upper
 119 100
 134 25.1 19.9 29.9
 91 28.9 23.4 35.0

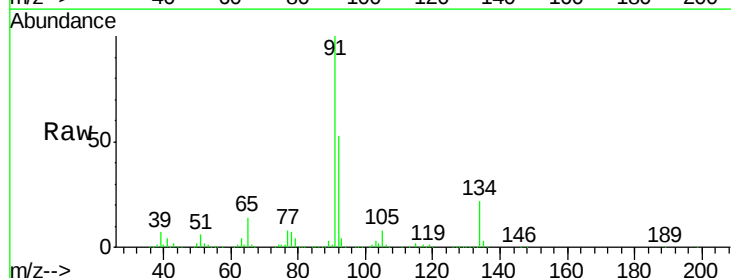


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

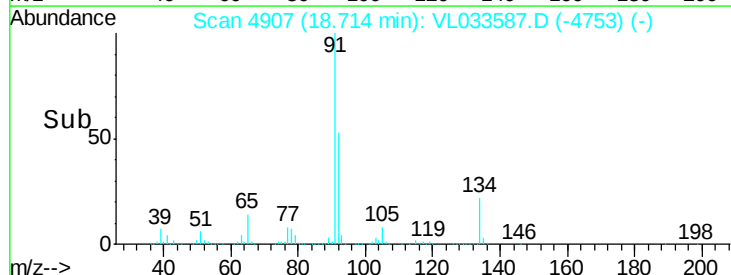
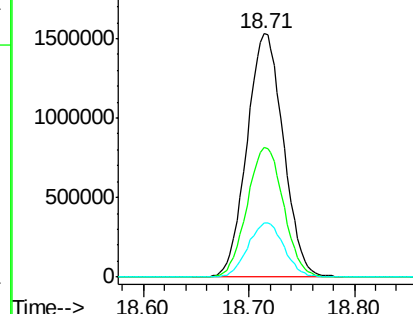


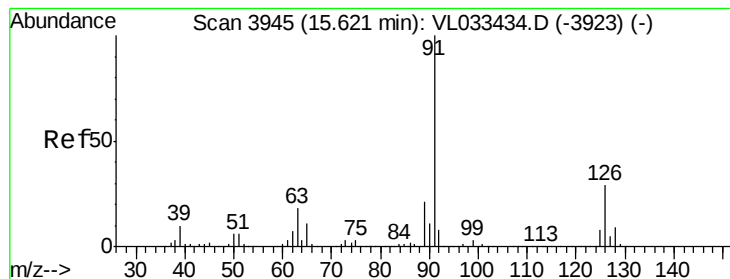
#70
 n-Butylbenzene
 Concen: 8.982 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

Tgt Ion: 91 Resp: 3672518
 Ion Ratio Lower Upper
 91 100
 92 53.4 42.6 64.0
 134 22.2 17.5 26.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.873 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

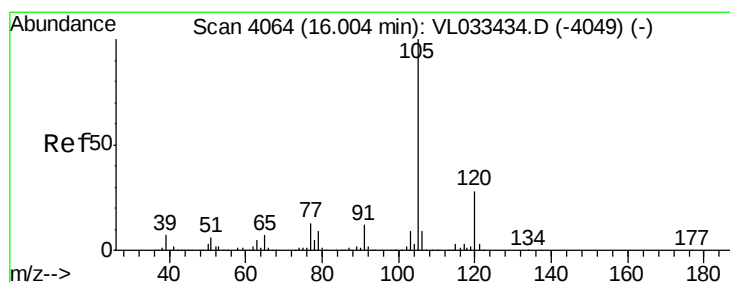
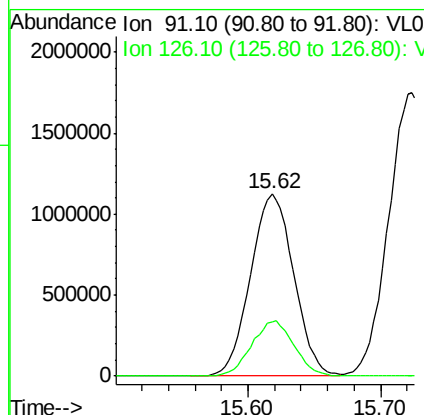
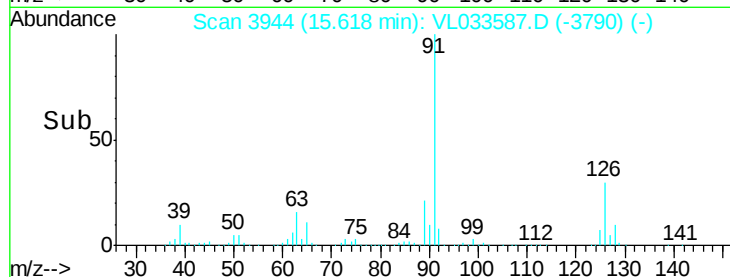
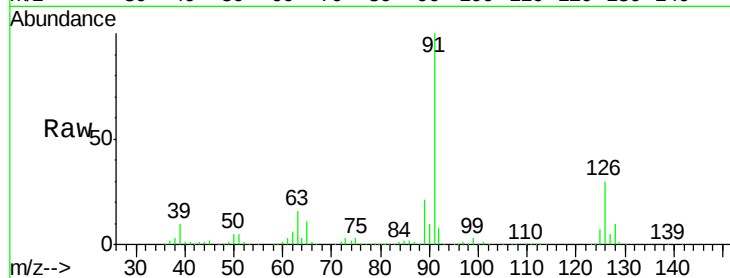
VSTDCCC010

Tot Ion: 91 Resp: 2551572

Ion Ratio Lower Upper

91 100

126 29.8 11.7 46.9



#72

4-Ethyltoluene

Concen: 9.197 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Tgt Ion:105 Resp: 2761087

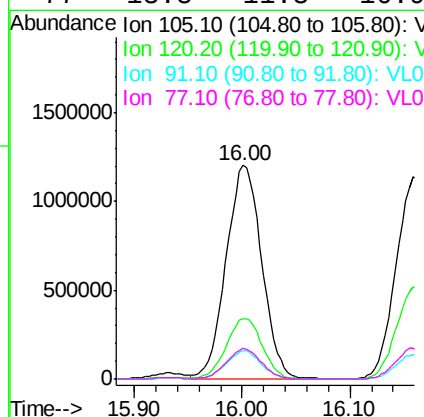
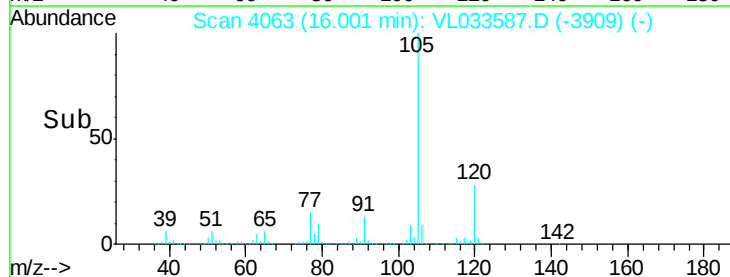
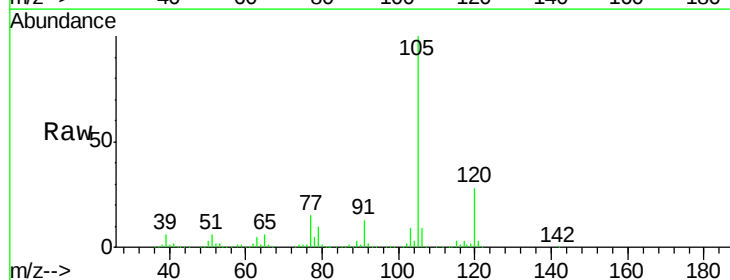
Ion Ratio Lower Upper

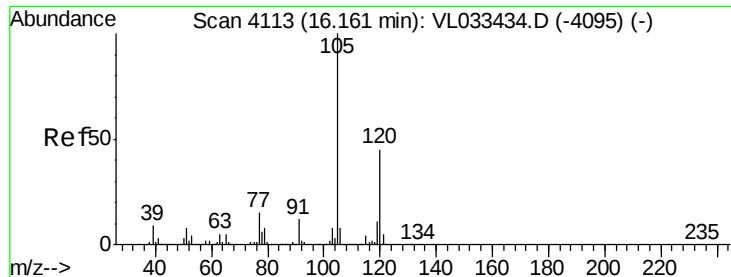
105 100

120 28.7 23.2 34.8

91 12.8 10.4 15.6

77 13.8 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 9.229 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

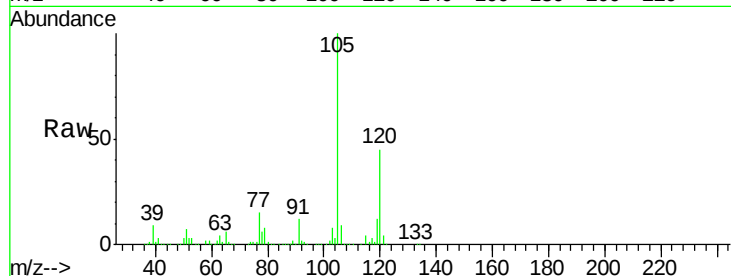
VSTDCCC010

Tot Ion:105 Resp: 2651376

Ion Ratio Lower Upper

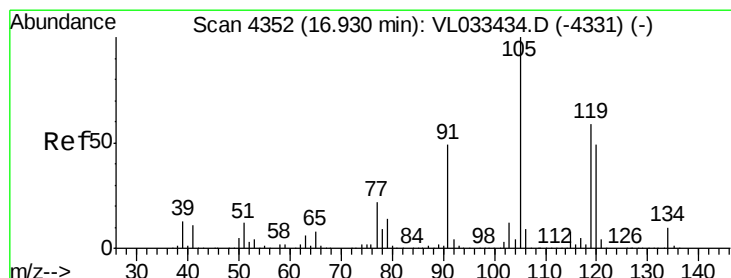
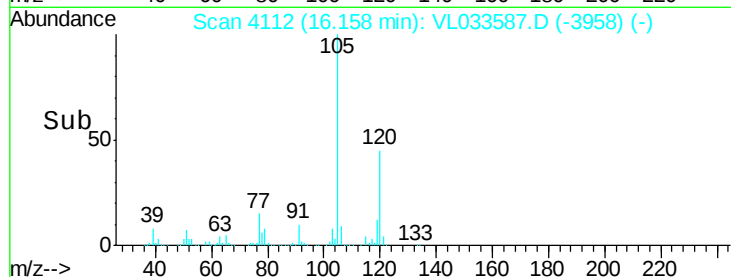
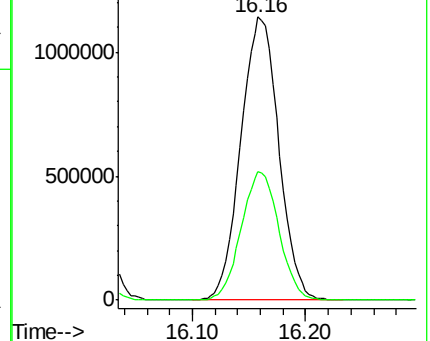
105 100

120 45.5 35.7 53.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.912 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Tgt Ion:105 Resp: 2744210

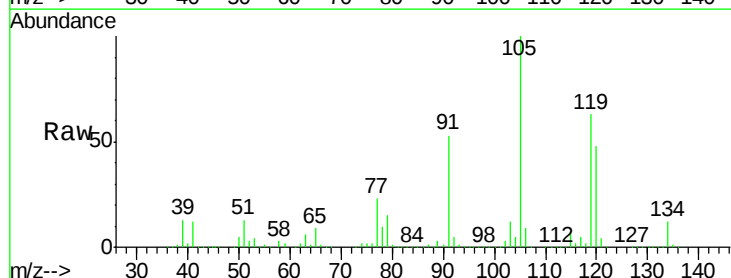
Ion Ratio Lower Upper

105 100

120 47.5 39.0 58.6

91 52.4 40.0 60.0

77 22.8 17.5 26.3

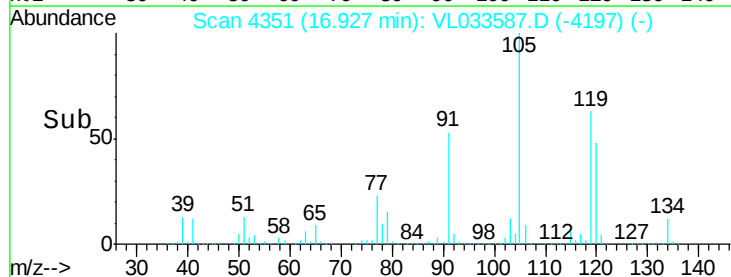
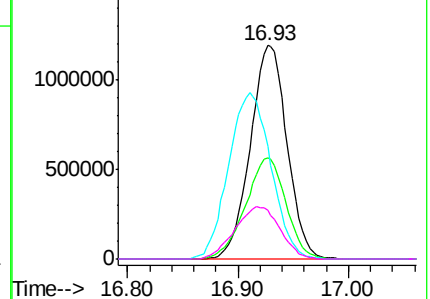


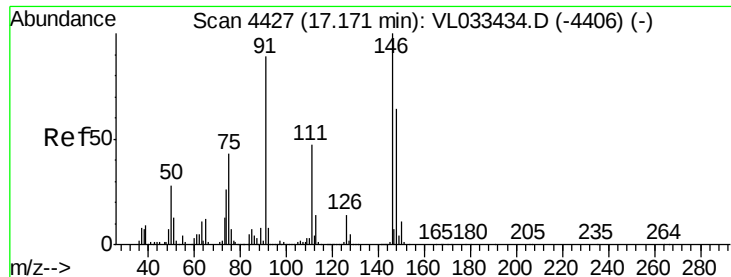
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

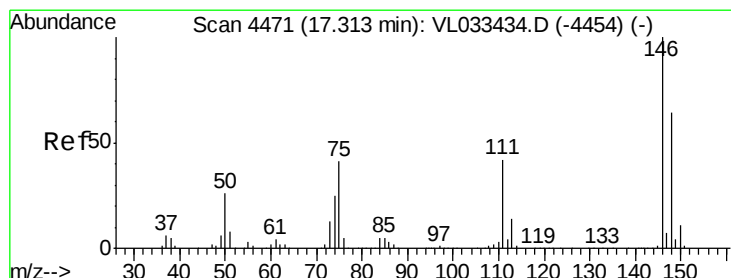
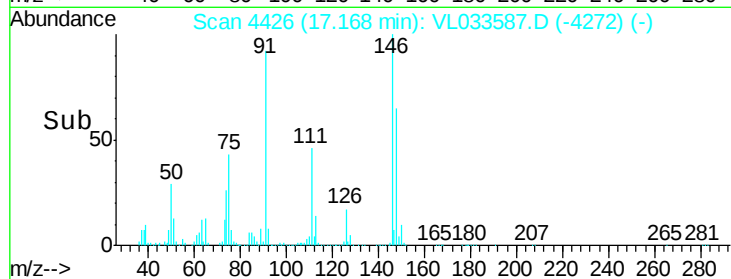
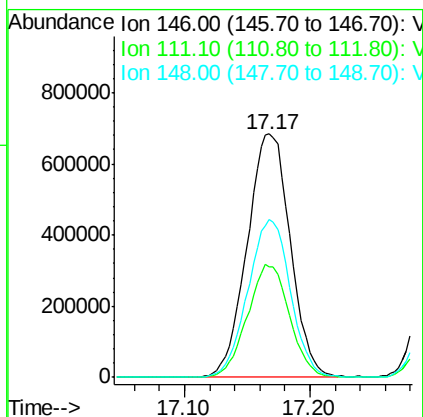
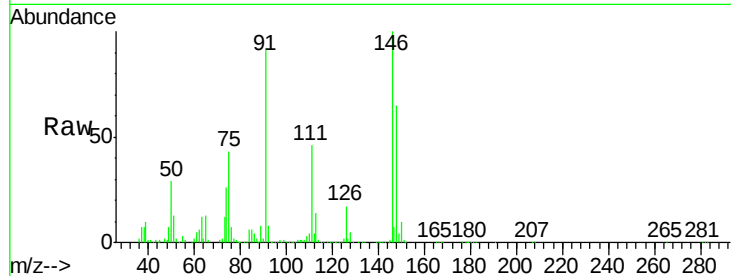




#75
 1,3-Dichlorobenzene
 Concen: 8.603 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

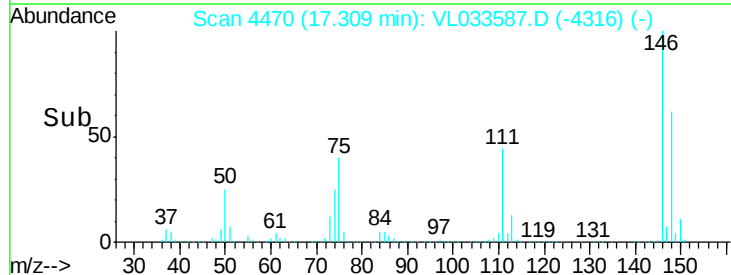
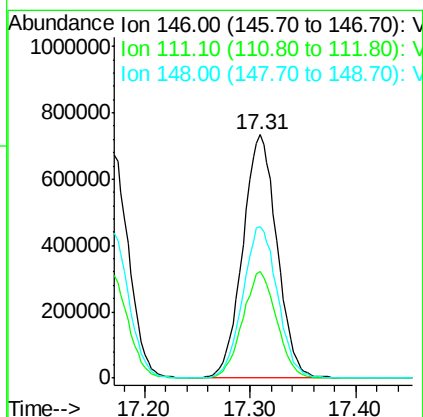
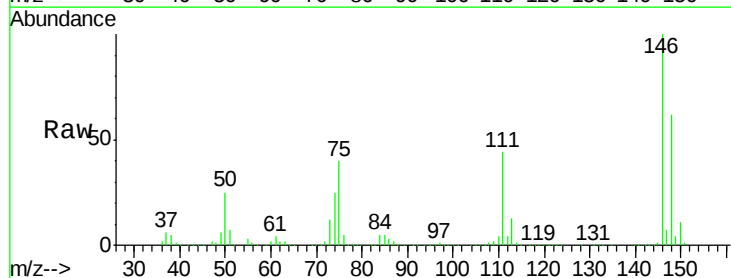
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

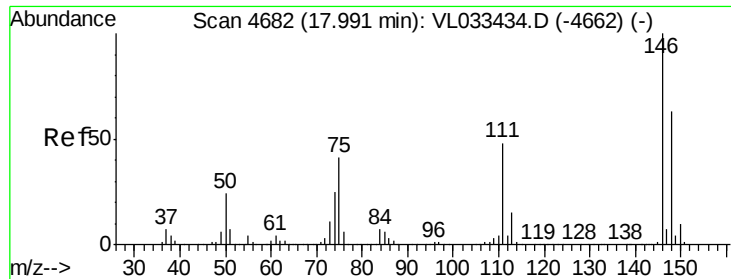
Tot Ion:146 Resp: 1637252
 Ion Ratio Lower Upper
 146 100
 111 45.3 22.9 68.8
 148 64.0 32.0 96.2



#76
 1,4-Dichlorobenzene
 Concen: 8.898 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.00 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

Tgt Ion:146 Resp: 1650082
 Ion Ratio Lower Upper
 146 100
 111 43.7 21.7 65.1
 148 63.6 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 8.947 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

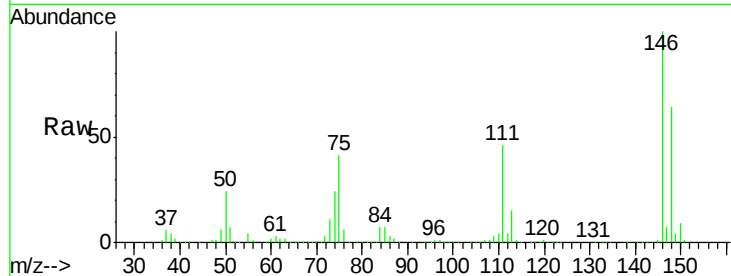
Tot Ion:146 Resp: 1615672

Ion Ratio Lower Upper

146 100

111 46.3 23.5 70.5

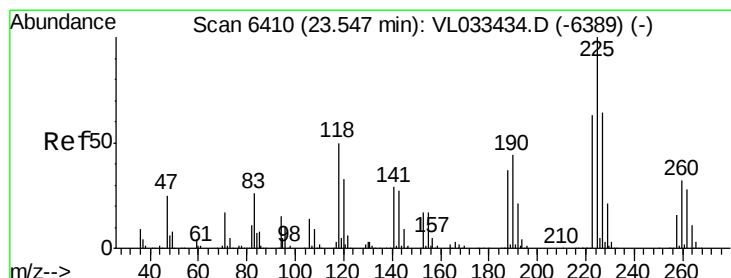
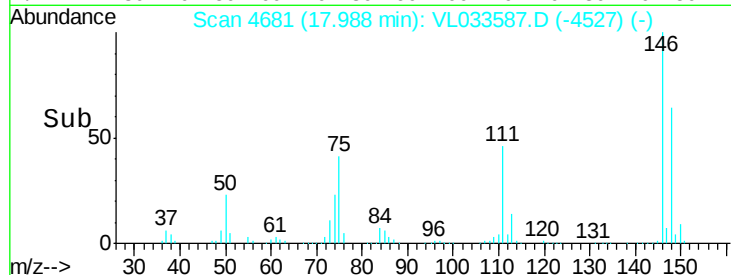
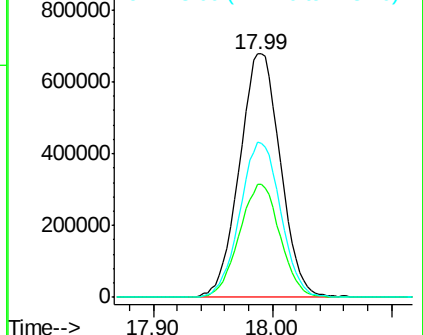
148 63.5 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.203 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

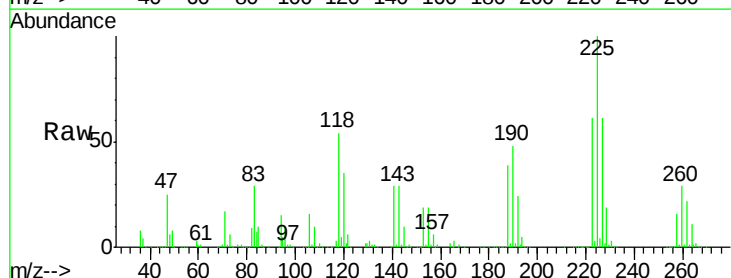
Tgt Ion:225 Resp: 1219660

Ion Ratio Lower Upper

225 100

223 63.2 50.0 75.0

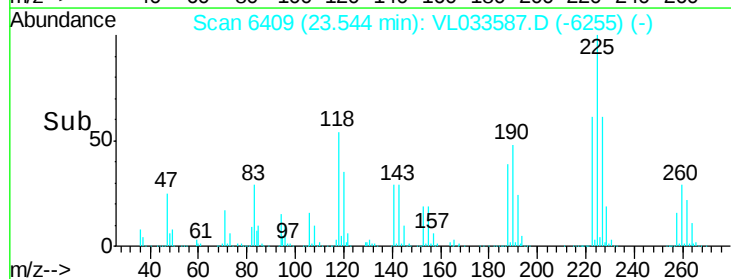
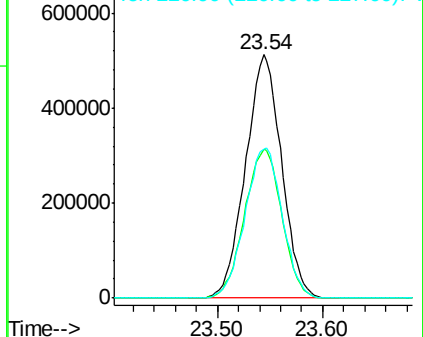
227 63.6 51.1 76.7

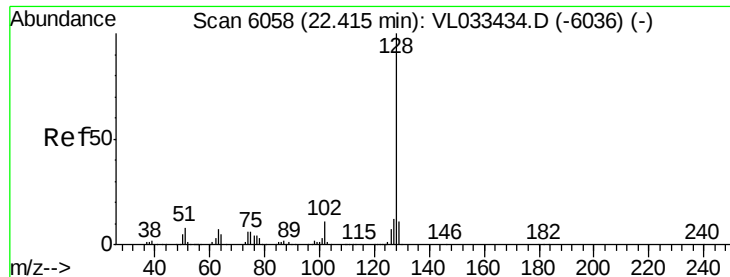


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.450 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Instrument :

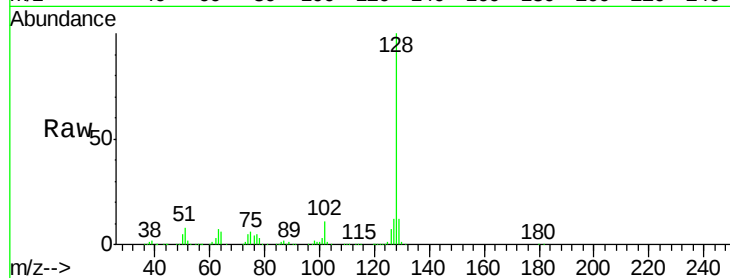
MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 2754500

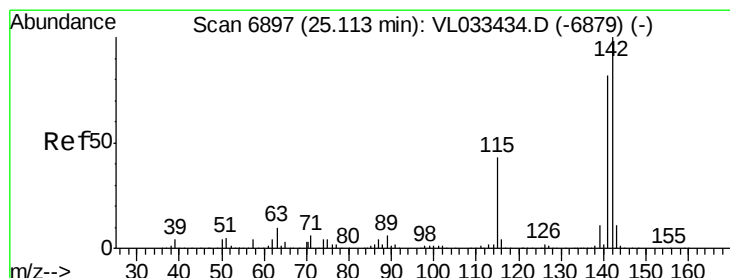
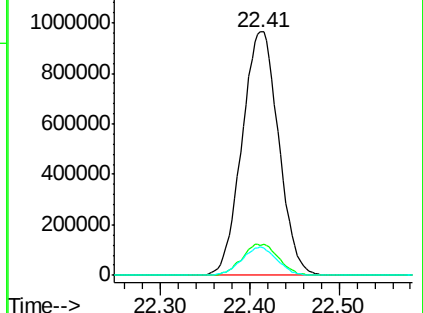
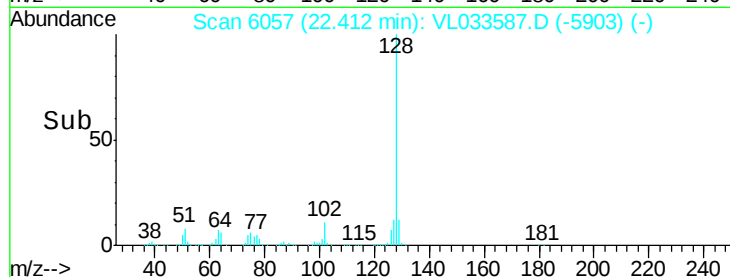
Ion	Ratio	Lower	Upper
128	100		
127	12.5	9.8	14.8
129	11.6	8.6	12.8



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: 14.263 ppbv

RT: 25.12 min Scan# 6898

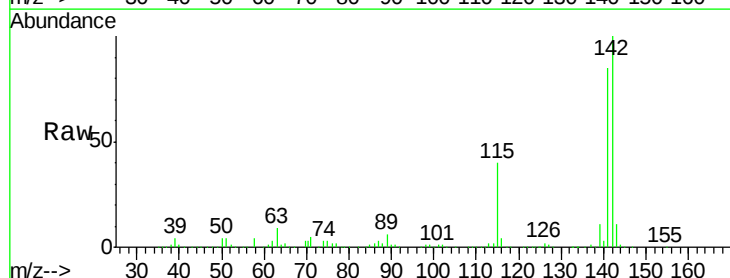
Delta R.T. 0.00 min

Lab File: VL033587.D

Acq: 16 Apr 2019 9:58

Tgt Ion:142 Resp: 1261706

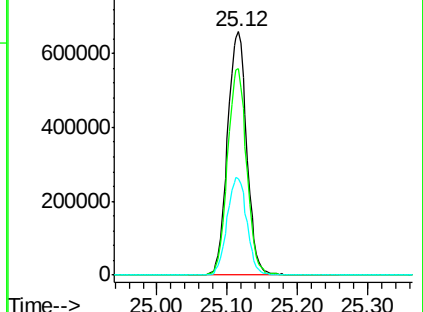
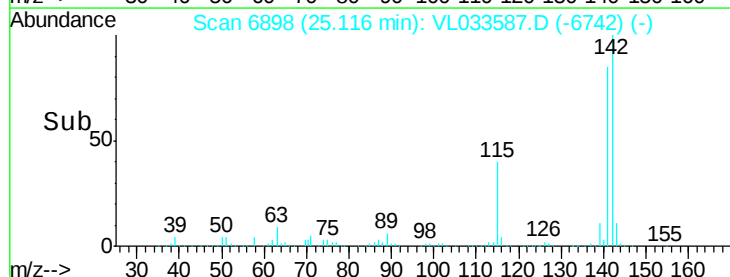
Ion	Ratio	Lower	Upper
142	100		
141	83.9	66.6	99.8
115	41.3	34.4	51.6



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: 9.753 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL033587.D
 Acq: 16 Apr 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:180 Resp: 1426078
 Ion Ratio Lower Upper
 180 100
 182 96.4 77.0 115.4
 184 30.9 24.6 36.8

