

Data File : VL034033.D
Acq On : 12 Jul 2019 9:30
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Jul 12 15:43:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	957602	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.26	114	2753381	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	3435964	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2134862	7.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	72.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.06	85	2181409	11.039	ppbv	98
3) Chlorodifluoromethane	2.99	51	1130985	9.564	ppbv	97
4) Chloromethane	3.15	50	679111	9.988	ppbv	99
5) Vinyl Chloride	3.27	62	742951	9.717	ppbv	96
6) Bromomethane	3.49	94	462439	10.257	ppbv	99
7) Chloroethane	3.57	64	280993	10.283	ppbv	98
8) Dichlorotetrafluoroethane	3.20	85	1801844	9.352	ppbv	100
9) Propene	3.01	41	495035	11.380	ppbv	96
10) Heptane	8.21	43	1404717	12.897	ppbv	98
11) Trichlorofluoromethane	3.98	101	1878315	8.453	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1437130	9.137	ppbv	100
13) Ethanol	3.62	45	99280	7.347	ppbv	95
14) Bromoethene	3.76	108	646034	10.999	ppbv	97
15) Acetone	3.88	43	1383685	8.594	ppbv	98
16) 1,3-Butadiene	3.34	39	626973	11.028	ppbv	100
17) tert-Butyl alcohol	4.33	59	1026612	7.998	ppbv	100
18) 1,1-Dichloroethene	4.32	96	643464	9.185	ppbv	96
19) Isopropyl Alcohol	4.00	45	767601	7.103	ppbv	100
20) Methylene Chloride	4.38	84	558024	7.947	ppbv	97
21) Allyl Chloride	4.45	41	1063461	10.594	ppbv	96
22) trans-1,2-Dichloroethene	4.93	96	710134	10.639	ppbv	98
23) Vinyl Acetate	5.12	43	2116835	13.173	ppbv	97
24) 1,1-Dichloroethane	5.06	63	1594182	11.194	ppbv	99
25) Ethyl Acetate	5.73	43	2443284	11.095	ppbv	100
26) Hexane	5.75	57	1102062	10.936	ppbv	99
27) Carbon Disulfide	4.59	76	1748366	10.206	ppbv	98
28) Methyl tert-Butyl Ether	5.08	73	2152751	12.615	ppbv	99
29) Chloroform	5.81	83	1839294	9.712	ppbv	99
30) Cyclohexane	7.21	84	1043821	13.413	ppbv	97
31) cis-1,2-Dichloroethene	5.61	61	1130393	11.611	ppbv	97
32) 1,1,1-Trichloroethane	6.58	97	1836521	9.568	ppbv	98
34) 2-Butanone	5.30	43	1663205	11.414	ppbv	99
35) Carbon Tetrachloride	7.09	117	2103333	9.650	ppbv	99
36) Benzene	6.97	78	2538094	11.781	ppbv	99
37) 1,2-Dichloroethane	6.38	62	1399000	8.814	ppbv	97
38) Trichloroethene	7.92	130	1050015	10.953	ppbv	98
39) 1,2-Dichloropropane	7.70	63	909421	11.352	ppbv	93
40) 1,4-Dioxane	7.92	88	336018	9.085	ppbv #	93
41) Tetrahydrofuran	6.11	42	838461	11.733	ppbv	97
42) Bromodichloromethane	7.88	83	2191833	10.292	ppbv	99
43) Methyl Methacrylate	8.10	69	1027821	12.574	ppbv	98

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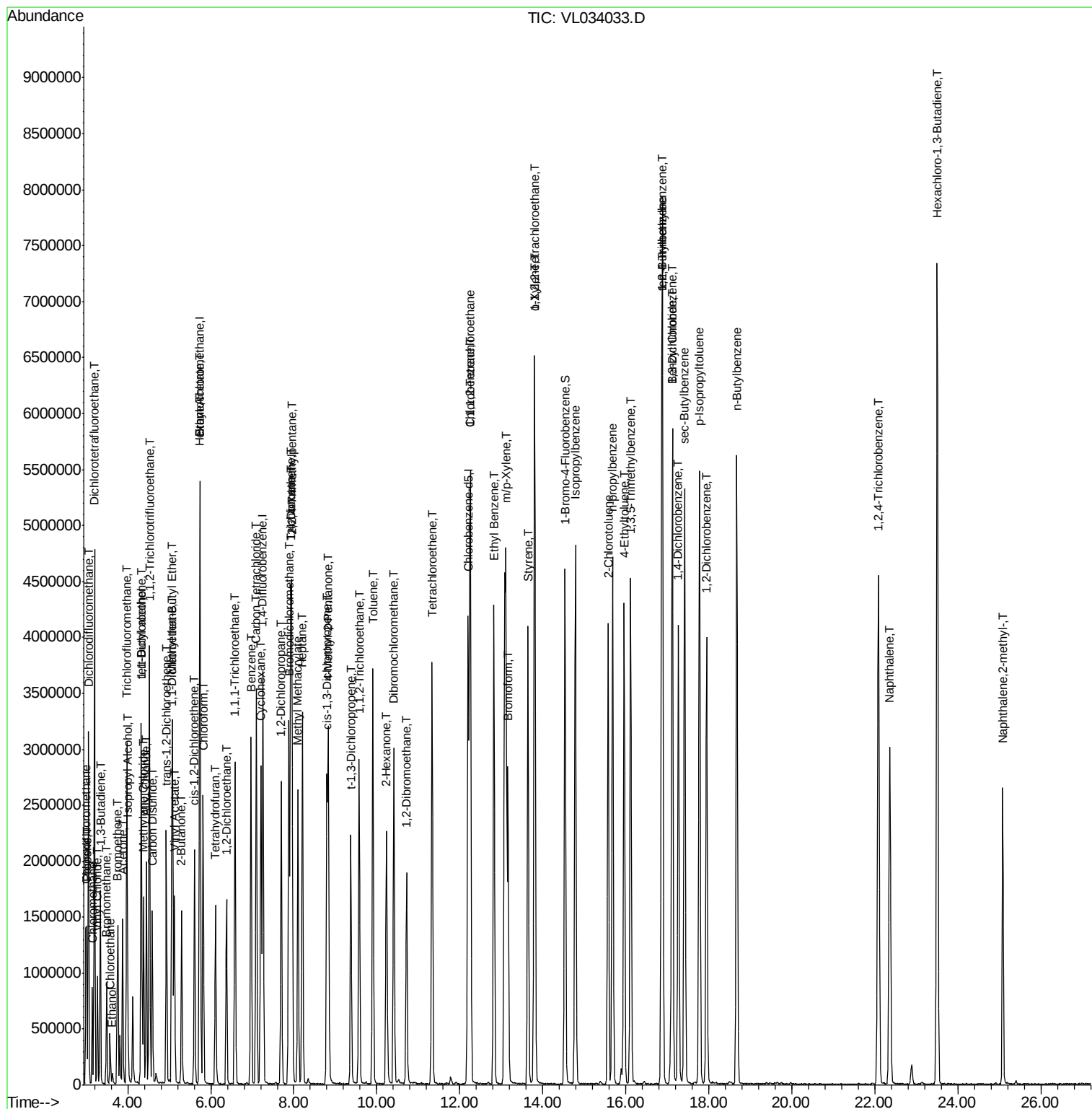
Quant Time: Jul 12 15:43:47 2019
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
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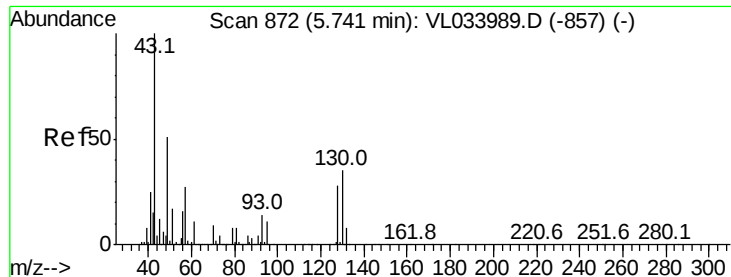
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4161307	11.190	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	1360311	12.726	ppbv	98
46) cis-1,3-Dichloropropene	8.80	75	1541098	12.449	ppbv	96
47) 1,1,2-Trichloroethane	9.58	97	1058626	10.510	ppbv	99
48) Dibromochloromethane	10.41	129	1866275	9.710	ppbv	99
49) Bromoform	13.16	173	1661162	10.117	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2473222	11.438	ppbv	99
51) 2-Hexanone	10.23	43	1977397	11.339	ppbv #	100
52) Tetrachloroethene	11.33	164	979490	10.563	ppbv	96
53) Toluene	9.90	91	3015507	12.227	ppbv	99
54) 1,2-Dibromoethane	10.72	107	1613774	10.856	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.24	131	1245034	8.107	ppbv	99
57) Chlorobenzene	12.26	112	2242125	8.196	ppbv	96
58) Ethyl Benzene	12.82	91	3995341	9.670	ppbv	98
59) m/p-Xylene	13.11	91	3538400	9.458	ppbv #	40
60) o-Xylene	13.81	91	3251650	8.688	ppbv	98
61) Styrene	13.64	104	2461612	9.938	ppbv	99
62) Isopropylbenzene	14.79	105	4328543	7.523	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.80	83	2183895	7.538	ppbv	99
64) n-propylbenzene	15.68	120	1096442	7.349	ppbv	100
65) tert-Butylbenzene	16.87	119	3789963	7.746	ppbv	100
66) Benzyl Chloride	17.11	91	2043197	8.162	ppbv	100
67) sec-Butylbenzene	17.42	105	5376748	7.829	ppbv	100
69) p-Isopropyltoluene	17.77	119	4448608	7.857	ppbv	100
70) n-Butylbenzene	18.67	91	4745939	7.979	ppbv	99
71) 2-Chlorotoluene	15.58	91	3246139	7.709	ppbv	99
72) 4-Ethyltoluene	15.96	105	3820024	7.948	ppbv	97
73) 1,3,5-Trimethylbenzene	16.12	105	3585611	8.018	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	3745388	7.561	ppbv	99
75) 1,3-Dichlorobenzene	17.12	146	2189077	6.957	ppbv	100
76) 1,4-Dichlorobenzene	17.27	146	2167116	7.313	ppbv	100
77) 1,2-Dichlorobenzene	17.95	146	2136976	7.335	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	2191641	8.840	ppbv	98
79) Naphthalene	22.36	128	4028360	9.673	ppbv	98
80) Naphthalene,2-methyl-	25.08	142	1478679	9.758	ppbv	97
81) 1,2,4-Trichlorobenzene	22.08	180	2266291	8.474	ppbv	99

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

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VSTDCCC010EC

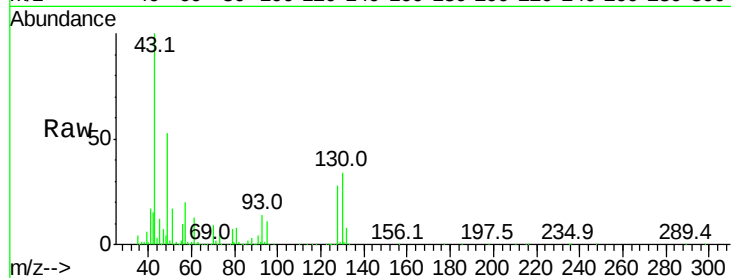
Tgt Ion: 49 Resp: 957602

Ion Ratio Lower Upper

49 100

128 53.6 27.9 83.6

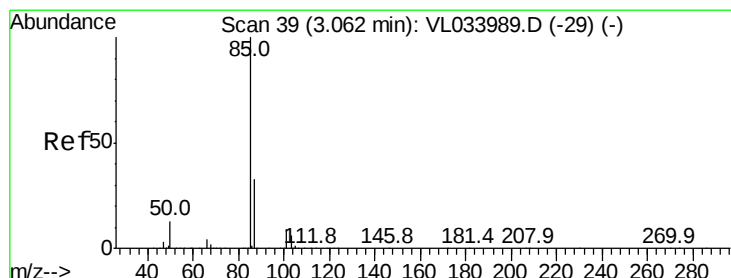
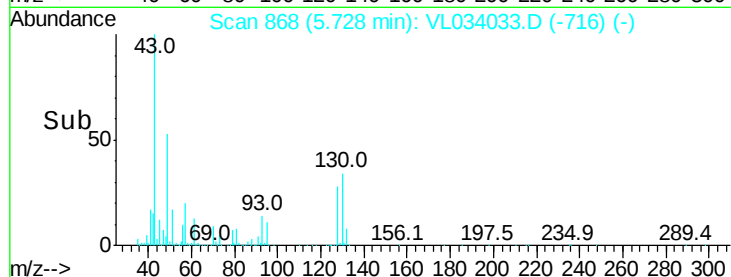
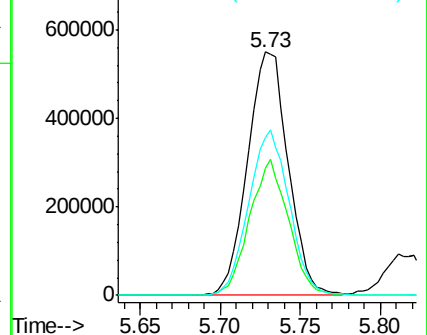
130 67.5 35.8 107.4



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: 11.039 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL034033.D

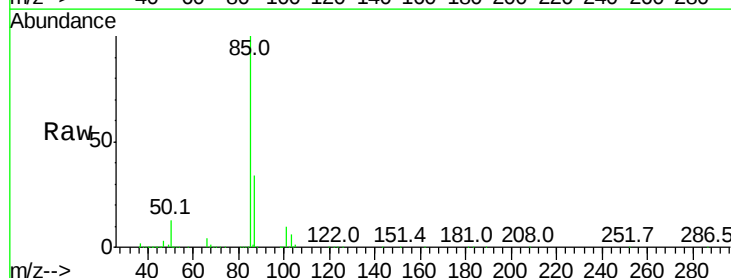
Acq: 12 Jul 2019 9:30

Tgt Ion: 85 Resp: 2181409

Ion Ratio Lower Upper

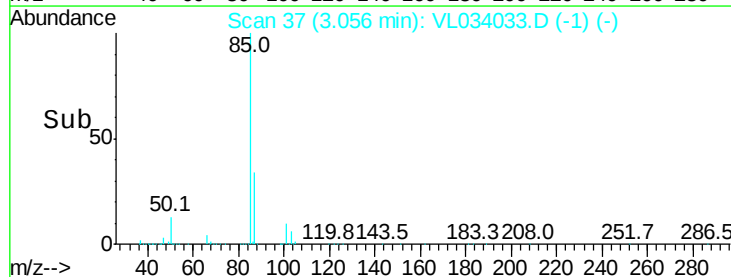
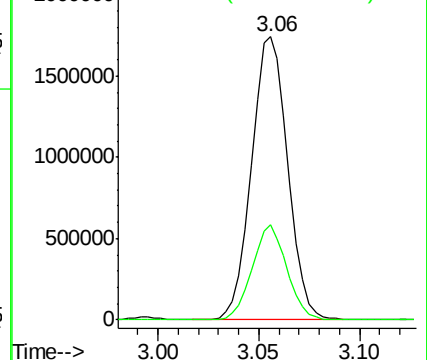
85 100

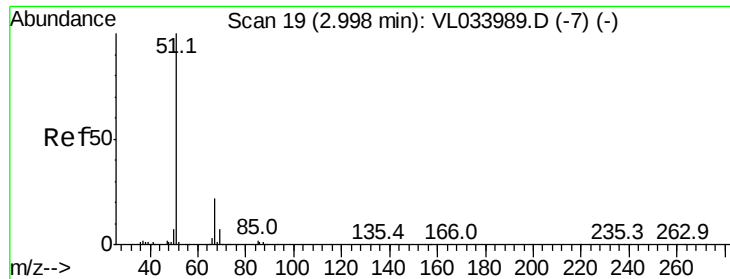
87 33.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

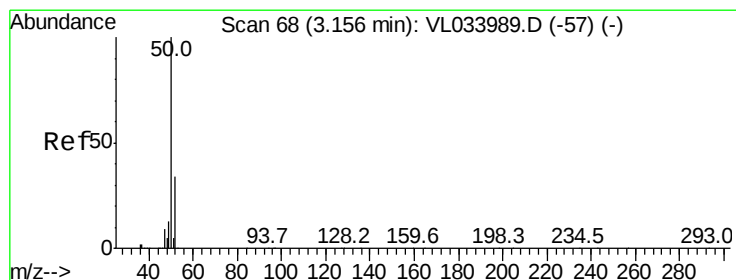
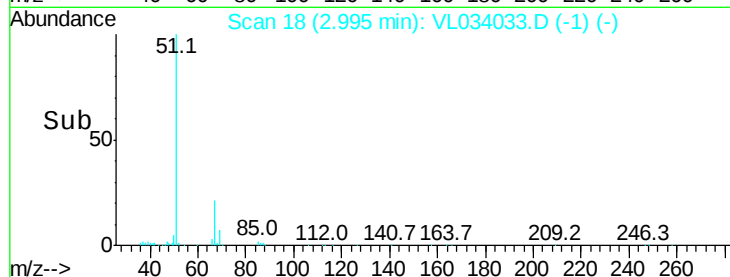
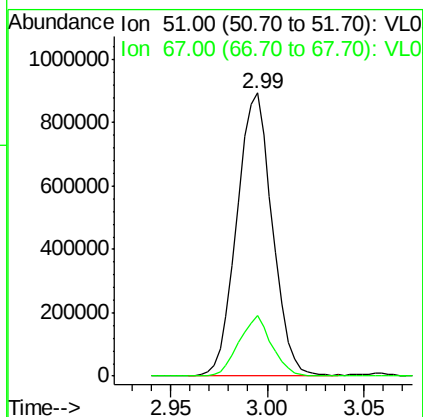
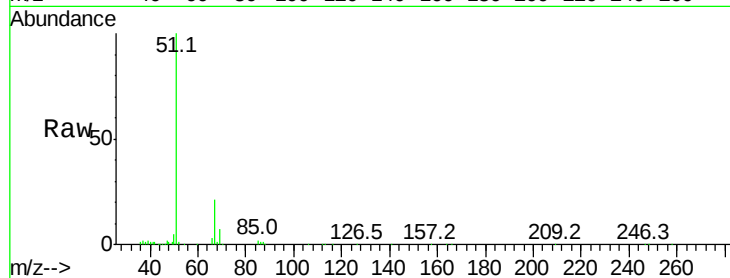




#3
 Chlorodifluoromethane
 Concen: 9.564 ppbv
 RT: 2.99 min Scan# 18
 Delta R.T. -0.00 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

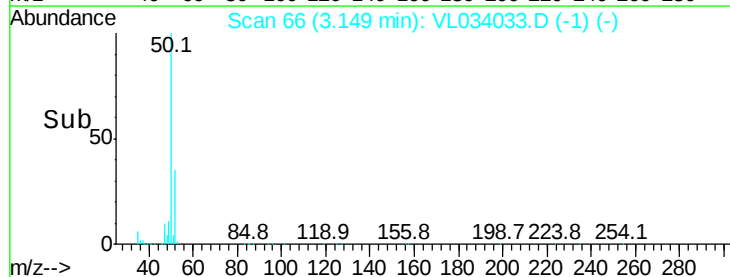
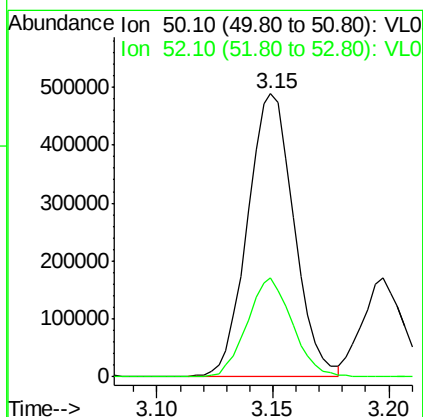
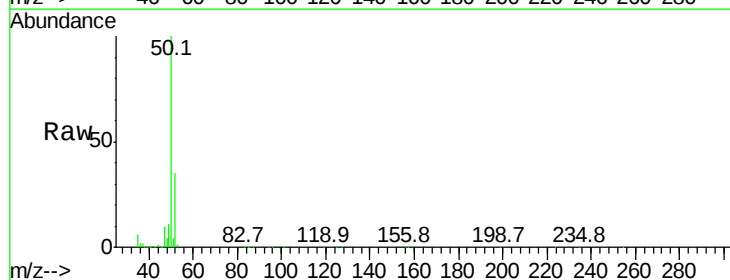
Instrument :
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 ClientSampleId :
 VSTDCCC010EC

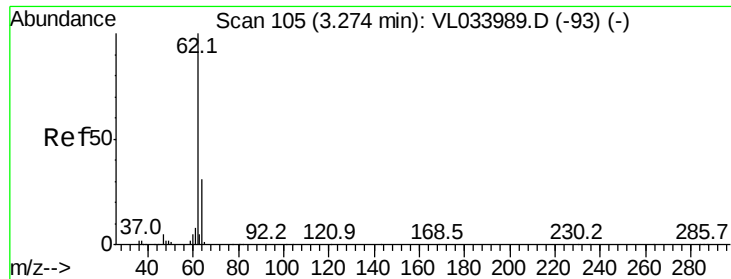
Tgt Ion: 51 Resp: 1130985
 Ion Ratio Lower Upper
 51 100
 67 20.0 17.3 25.9



#4
 Chloromethane
 Concen: 9.988 ppbv
 RT: 3.15 min Scan# 66
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

Tgt Ion: 50 Resp: 679111
 Ion Ratio Lower Upper
 50 100
 52 34.9 27.4 41.0





#5

Vinyl Chloride

Concen: 9.717 ppbv

RT: 3.27 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

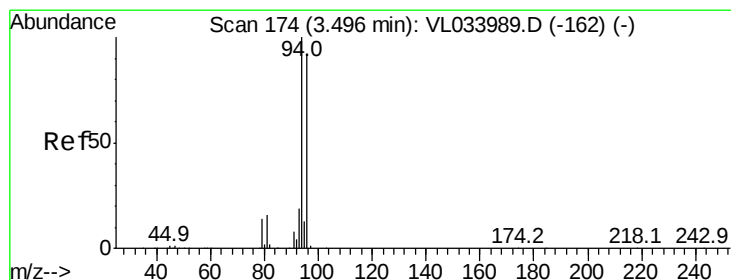
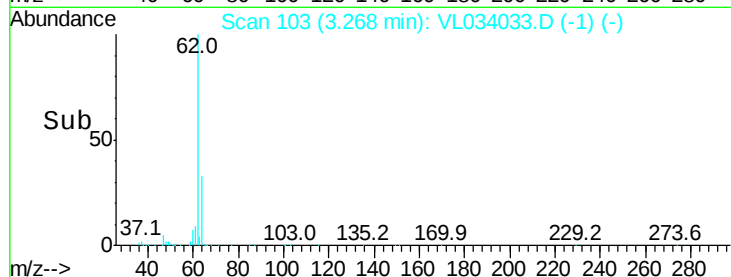
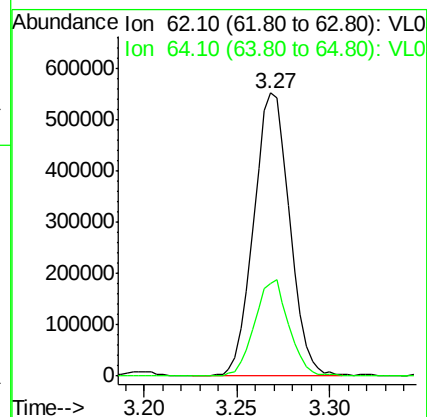
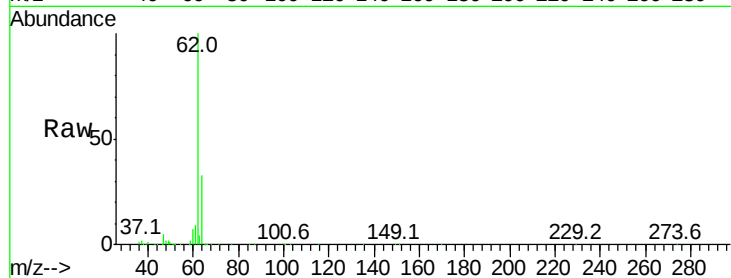
VSTDCCC010EC

Tgt Ion: 62 Resp: 742951

Ion Ratio Lower Upper

62 100

64 32.9 24.4 36.6



#6

Bromomethane

Concen: 10.257 ppbv

RT: 3.49 min Scan# 173

Delta R.T. -0.00 min

Lab File: VL034033.D

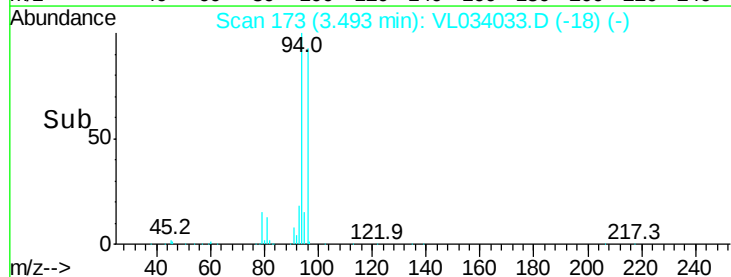
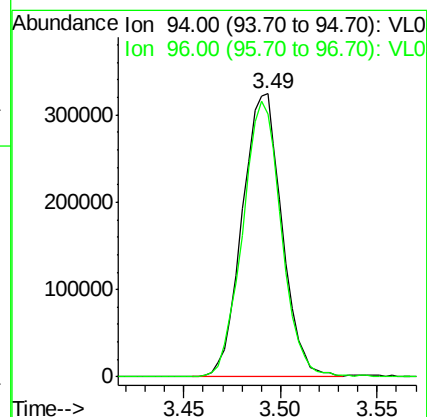
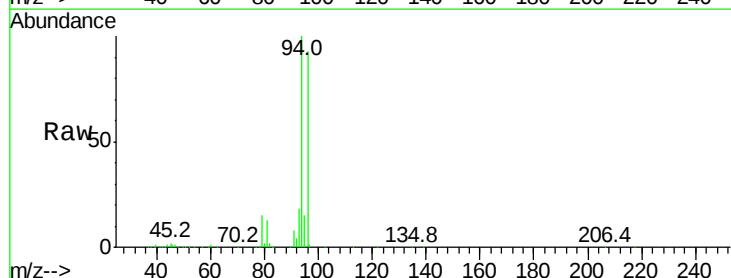
Acq: 12 Jul 2019 9:30

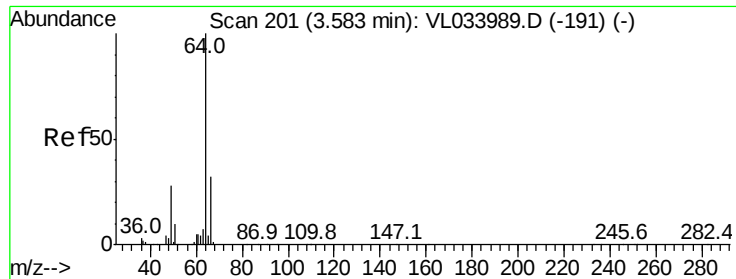
Tgt Ion: 94 Resp: 462439

Ion Ratio Lower Upper

94 100

96 93.2 73.8 110.8





#7

Chloroethane

Concen: 10.283 ppbv

RT: 3.57 min Scan# 198

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

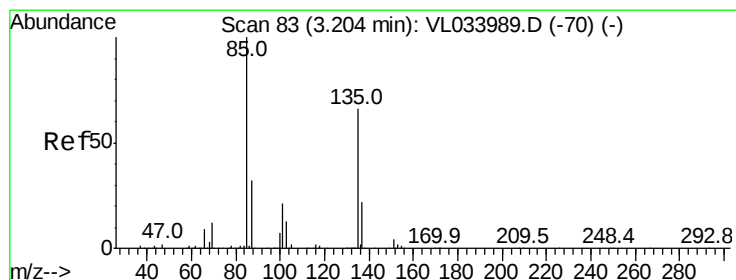
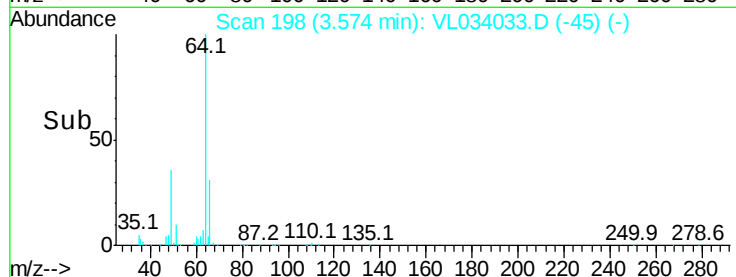
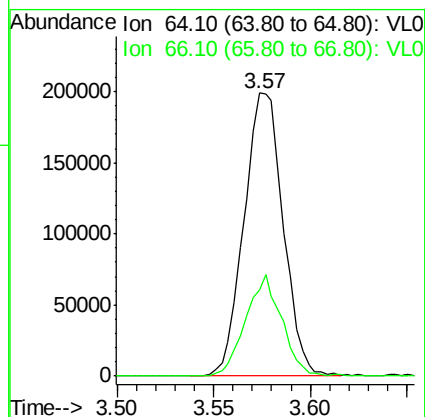
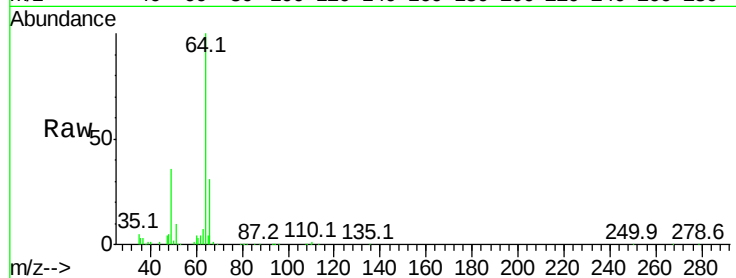
VSTDCCC010EC

Tgt Ion: 64 Resp: 280993

Ion Ratio Lower Upper

64 100

66 30.7 25.3 37.9



#8

Dichlorotetrafluoroethane

Concen: 9.352 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034033.D

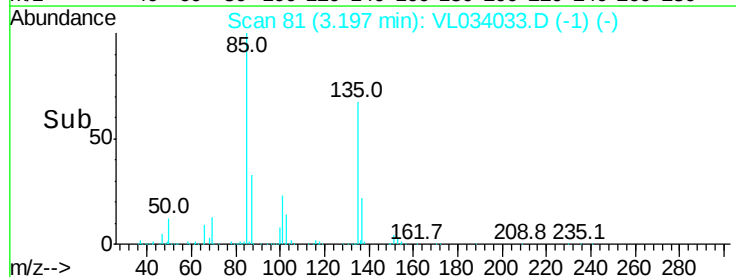
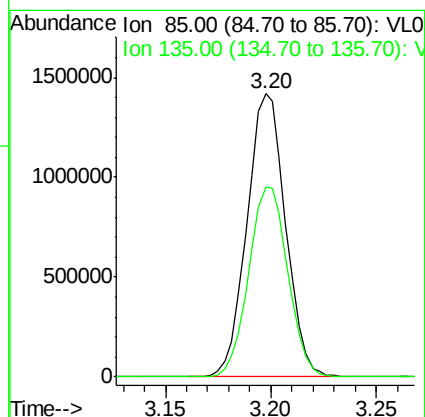
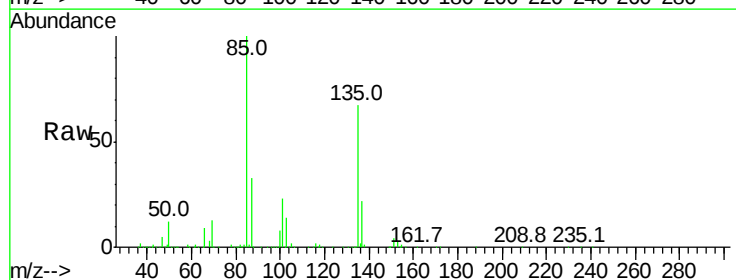
Acq: 12 Jul 2019 9:30

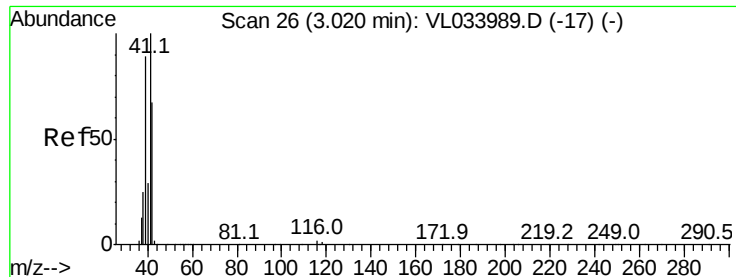
Tgt Ion: 85 Resp: 1801844

Ion Ratio Lower Upper

85 100

135 68.5 55.0 82.4





#9

Propene

Concen: 11.380 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

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ClientSampleId :

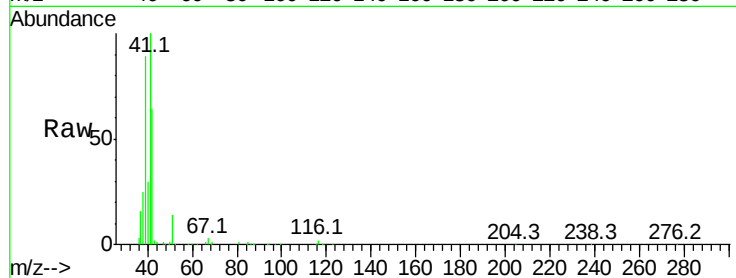
VSTDCCC010EC

Tgt Ion: 41 Resp: 495035

Ion Ratio Lower Upper

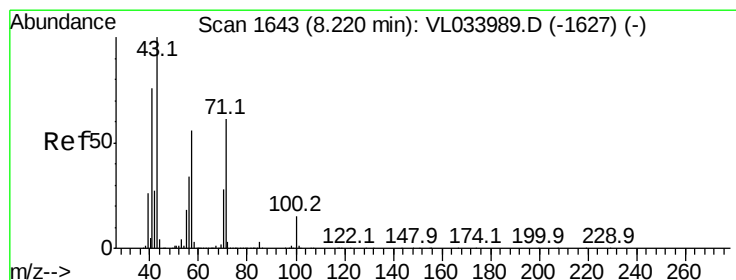
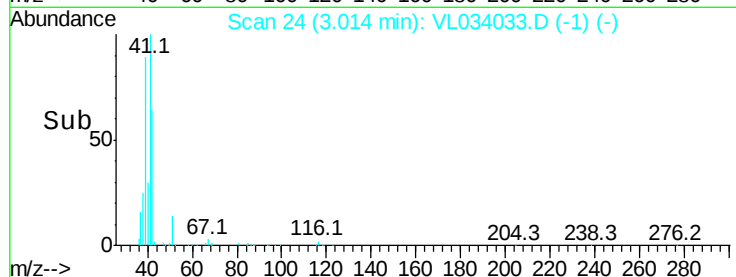
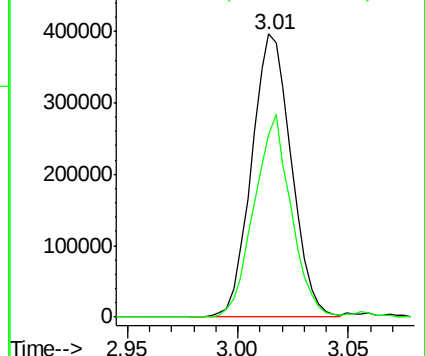
41 100

42 68.1 57.1 85.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 12.897 ppbv

RT: 8.21 min Scan# 1639

Delta R.T. -0.01 min

Lab File: VL034033.D

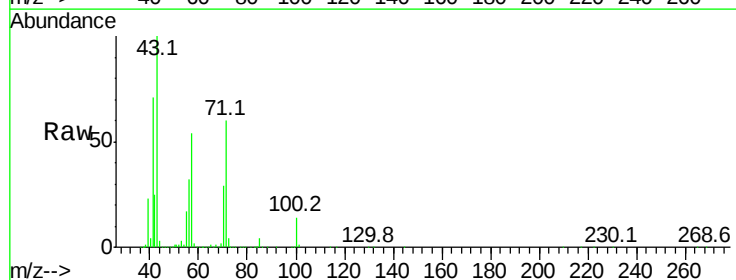
Acq: 12 Jul 2019 9:30

Tgt Ion: 43 Resp: 1404717

Ion Ratio Lower Upper

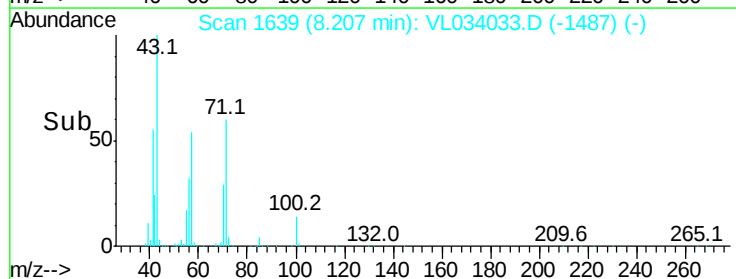
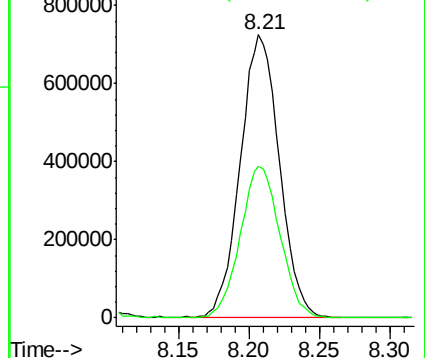
43 100

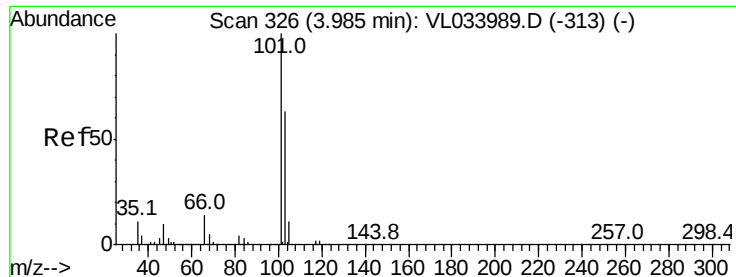
57 54.6 44.6 66.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

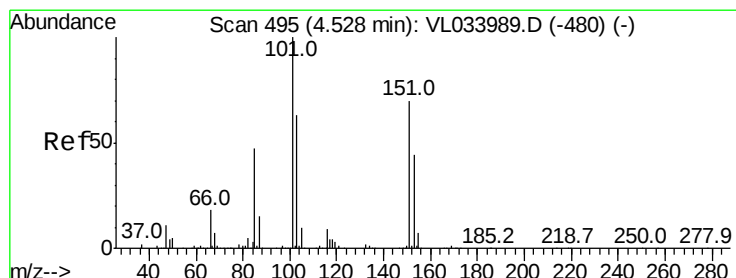
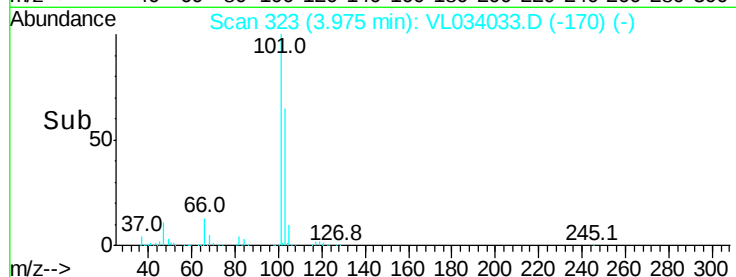
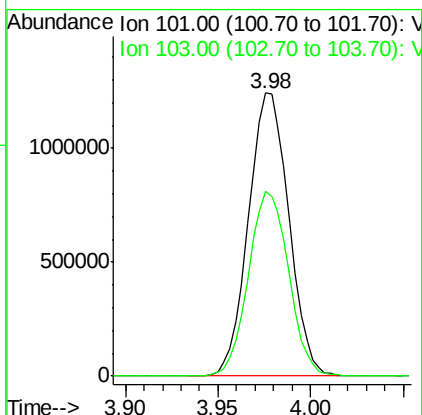
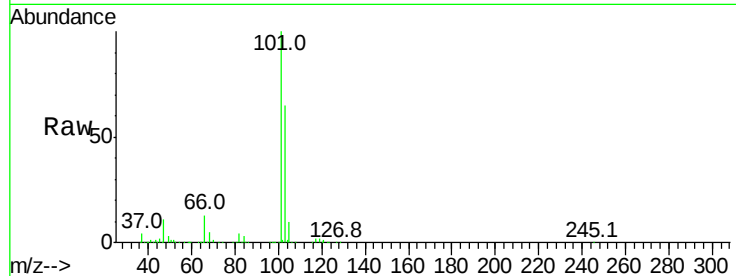




#11
 Trichlorofluoromethane
 Concen: 8.453 ppbv
 RT: 3.98 min Scan# 323
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

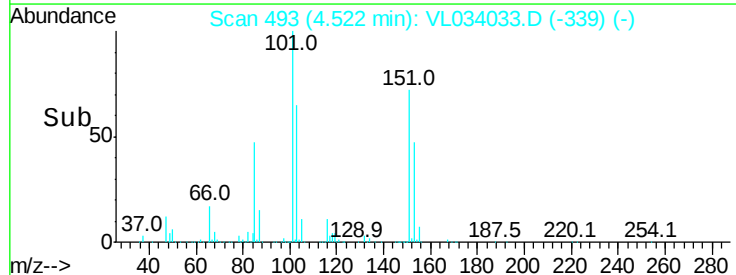
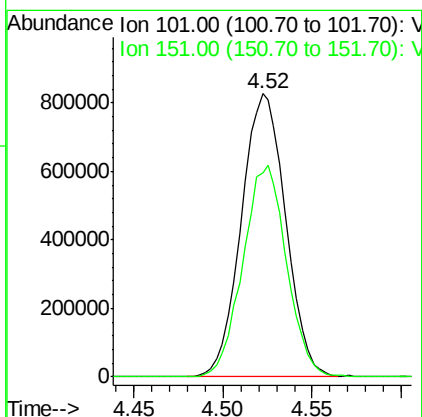
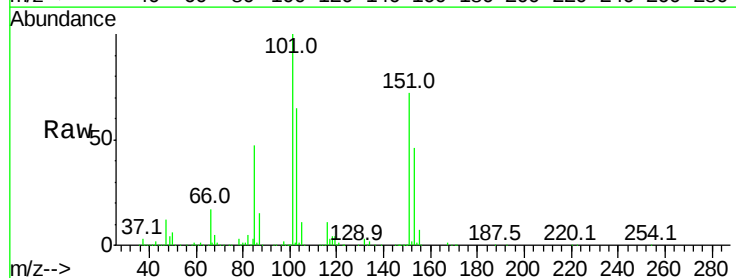
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

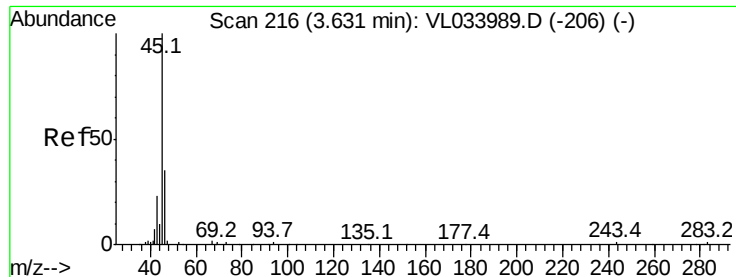
Tgt Ion:101 Resp: 1878315
 Ion Ratio Lower Upper
 101 100
 103 65.1 50.8 76.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.137 ppbv
 RT: 4.52 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

Tgt Ion:101 Resp: 1437130
 Ion Ratio Lower Upper
 101 100
 151 73.9 59.0 88.4





#13

Ethanol

Concen: 7.347 ppbv

RT: 3.62 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

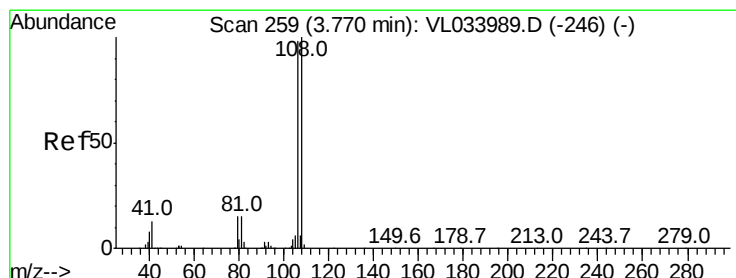
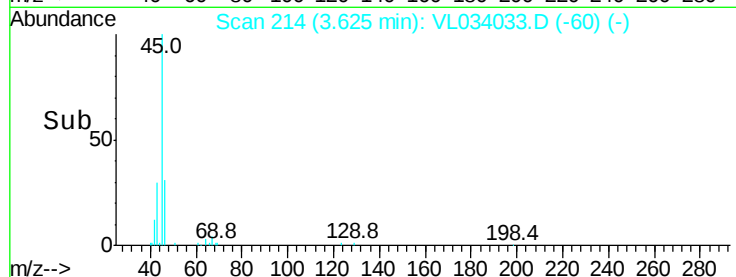
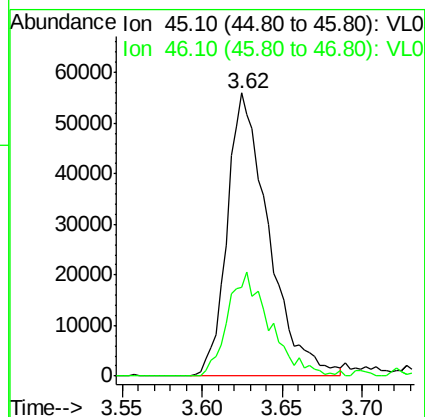
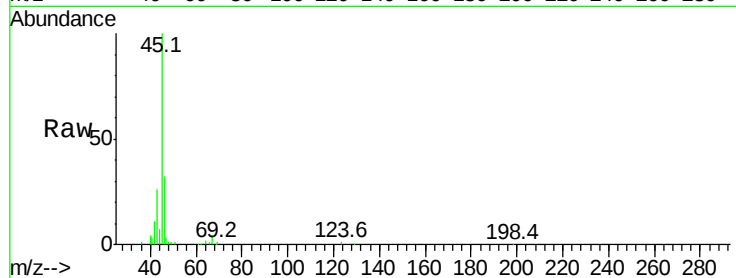
VSTDCCC010EC

Tgt Ion: 45 Resp: 99280

Ion Ratio Lower Upper

45 100

46 37.4 16.2 64.6



#14

Bromoethene

Concen: 10.999 ppbv

RT: 3.76 min Scan# 257

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

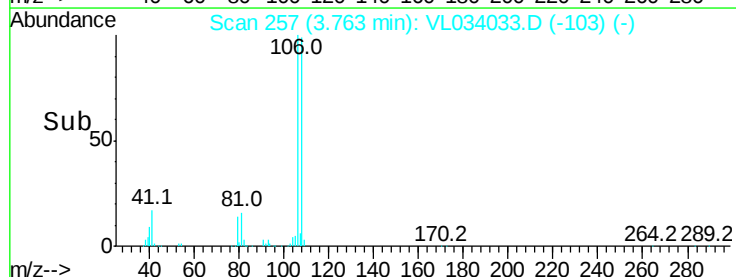
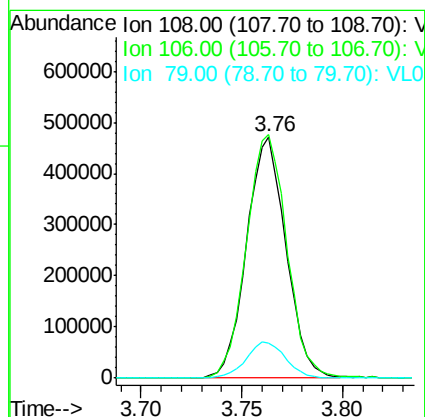
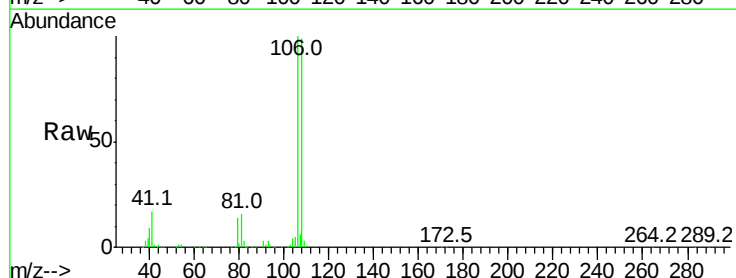
Tgt Ion: 108 Resp: 646034

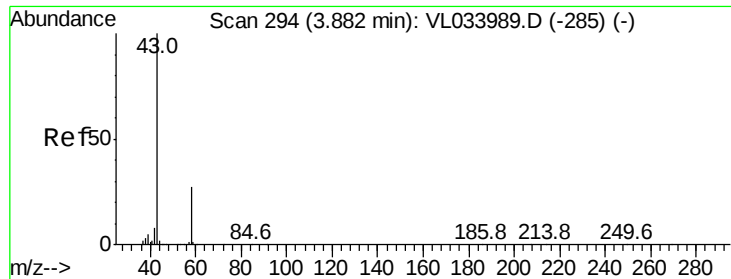
Ion Ratio Lower Upper

108 100

106 104.3 85.6 128.4

79 15.5 14.0 21.0

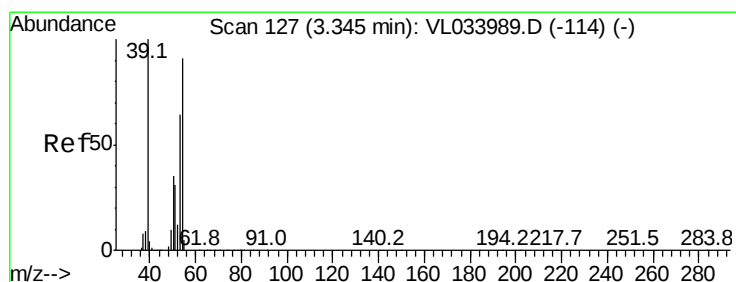
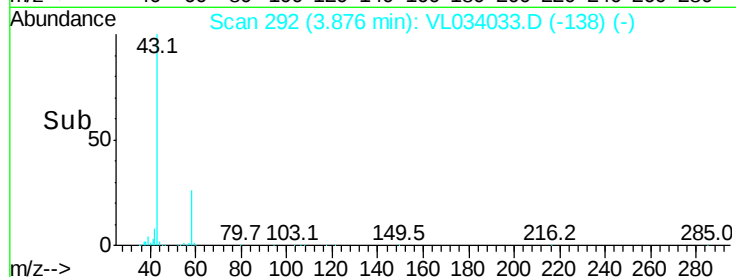
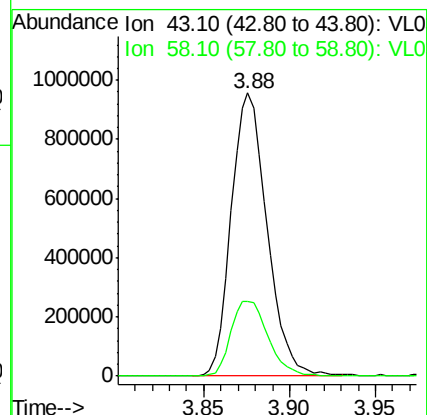
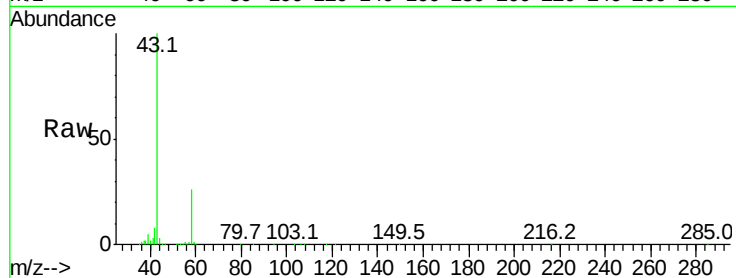




#15
Acetone
Concen: 8.594 ppbv
RT: 3.88 min Scan# 292
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

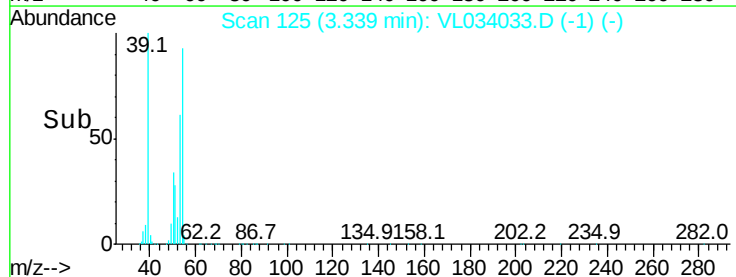
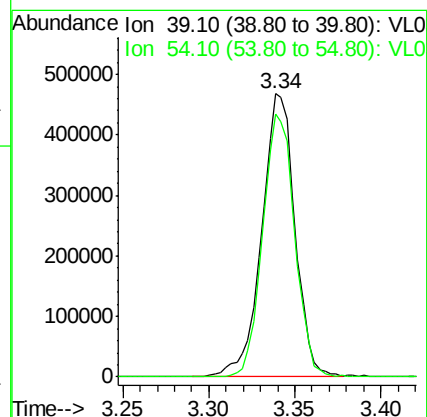
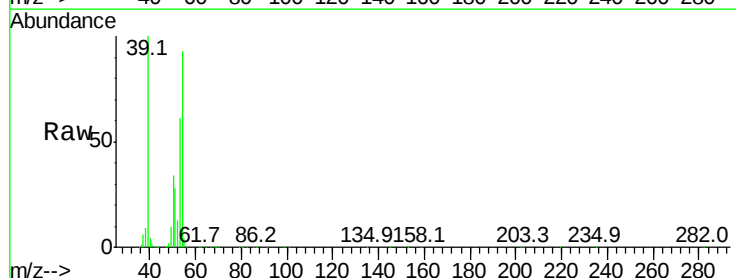
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

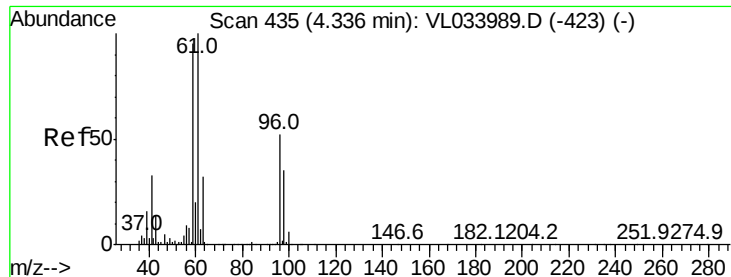
Tgt Ion: 43 Resp: 1383685
Ion Ratio Lower Upper
43 100
58 27.6 21.4 32.0



#16
1,3-Butadiene
Concen: 11.028 ppbv
RT: 3.34 min Scan# 125
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

Tgt Ion: 39 Resp: 626973
Ion Ratio Lower Upper
39 100
54 89.7 71.4 107.2



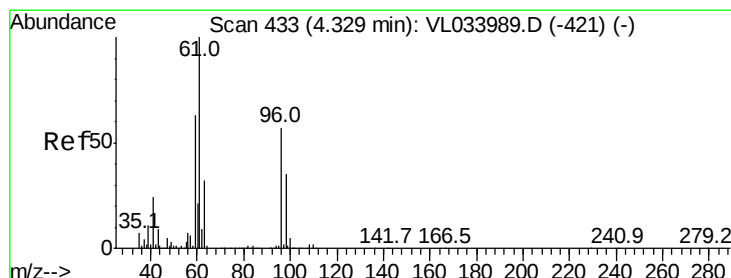
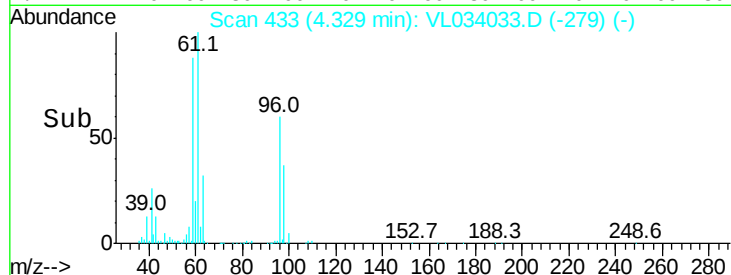
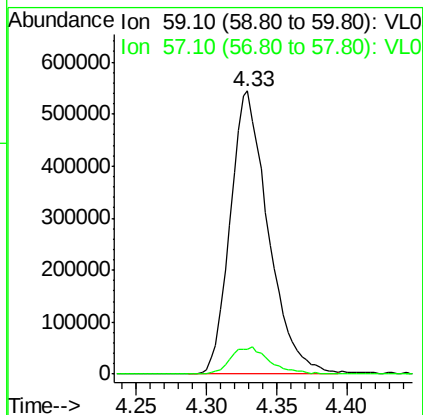
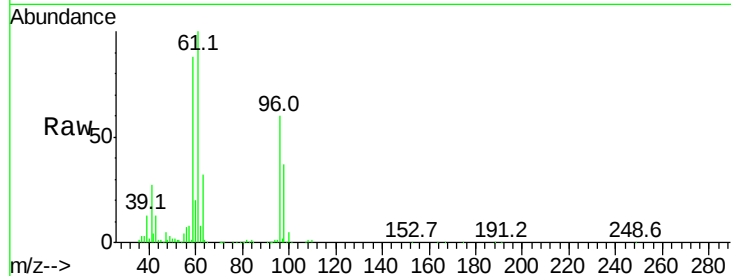


#17

tert-Butyl alcohol
Concen: 7.998 ppbv
RT: 4.33 min Scan# 433
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

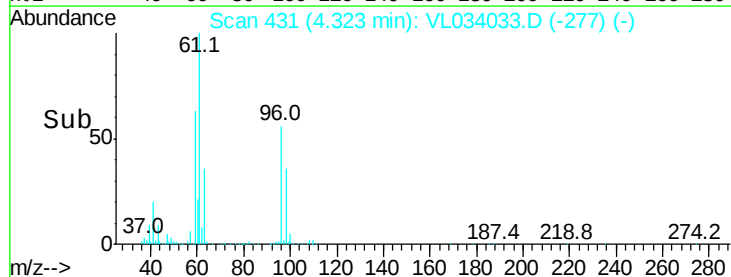
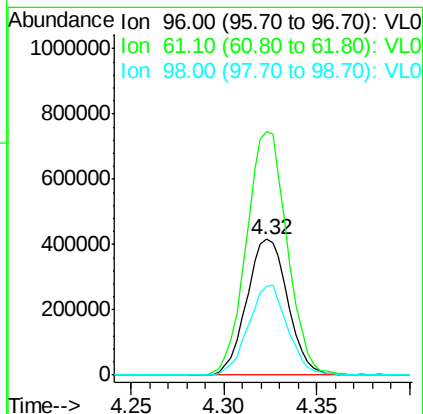
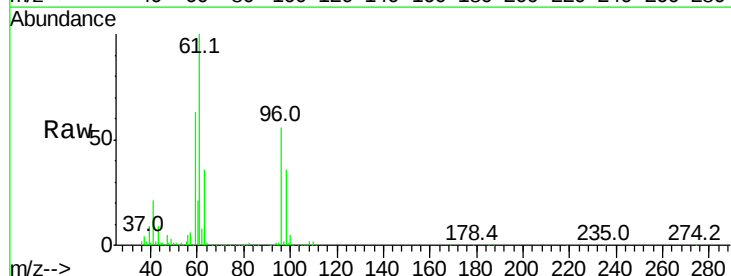
Tgt Ion: 59 Resp: 1026612
Ion Ratio Lower Upper
59 100
57 10.1 8.2 12.2

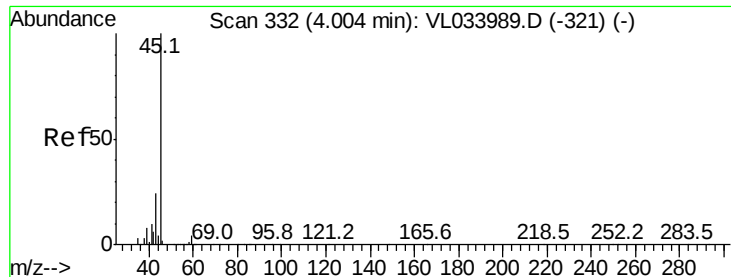


#18

1,1-Dichloroethene
Concen: 9.185 ppbv
RT: 4.32 min Scan# 431
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

Tgt Ion: 96 Resp: 643464
Ion Ratio Lower Upper
96 100
61 179.0 139.4 209.0
98 65.1 49.4 74.0





#19

Isopropyl Alcohol

Concen: 7.103 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

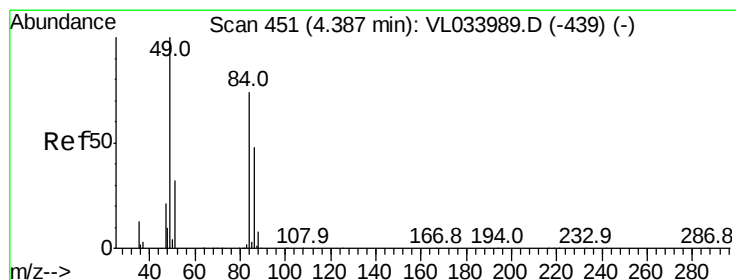
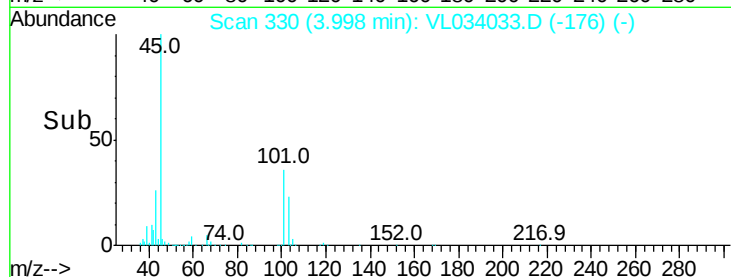
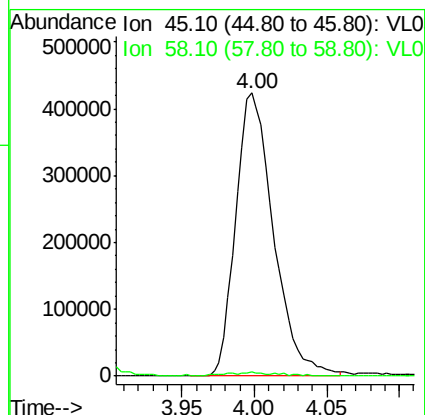
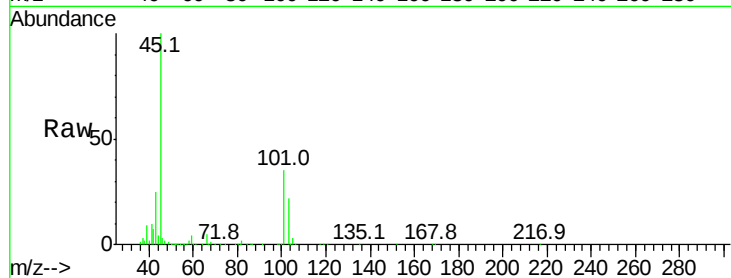
VSTDCCC010EC

Tgt Ion: 45 Resp: 767601

Ion Ratio Lower Upper

45 100

58 2.2 1.7 2.5



#20

Methylene Chloride

Concen: 7.947 ppbv

RT: 4.38 min Scan# 448

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Tgt Ion: 84 Resp: 558024

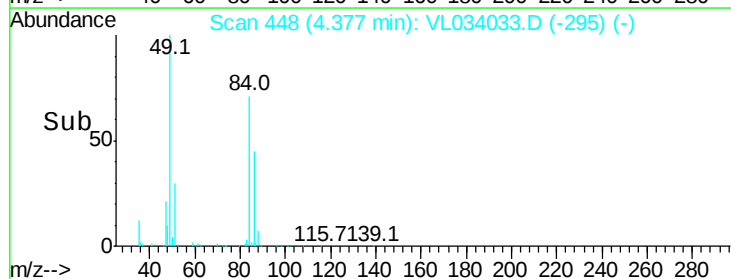
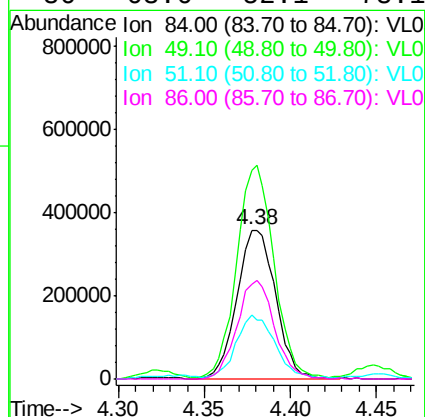
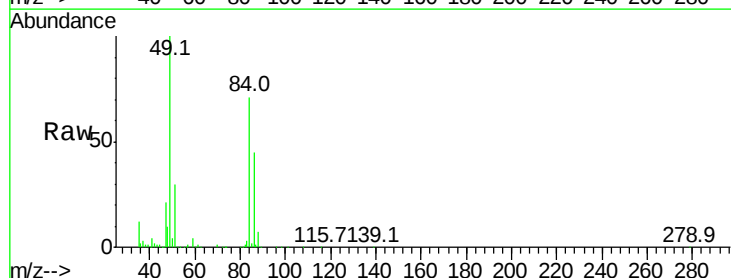
Ion Ratio Lower Upper

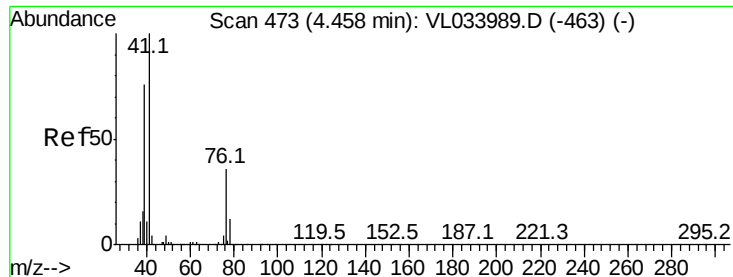
84 100

49 139.5 107.6 161.4

51 42.2 35.0 52.6

86 63.6 52.1 78.1





#21

Allyl Chloride

Concen: 10.594 ppbv

RT: 4.45 min Scan# 470

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

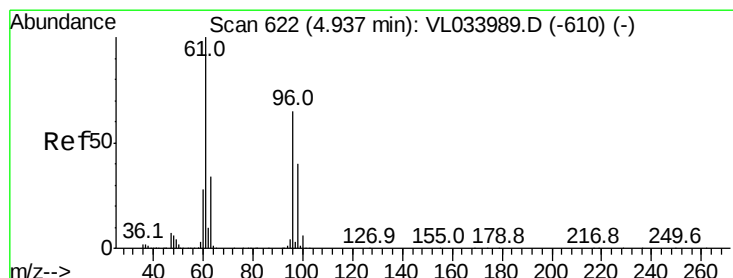
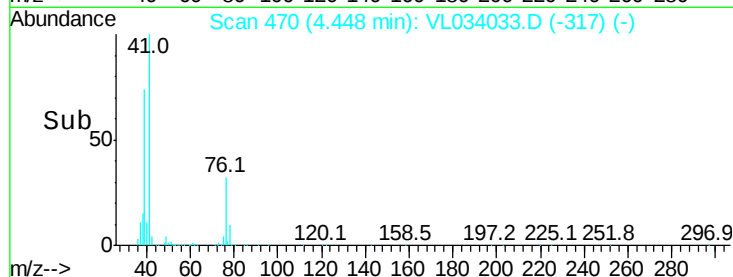
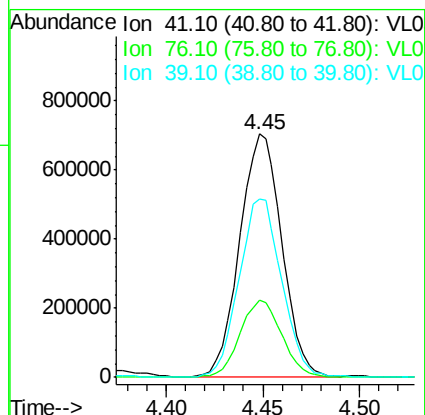
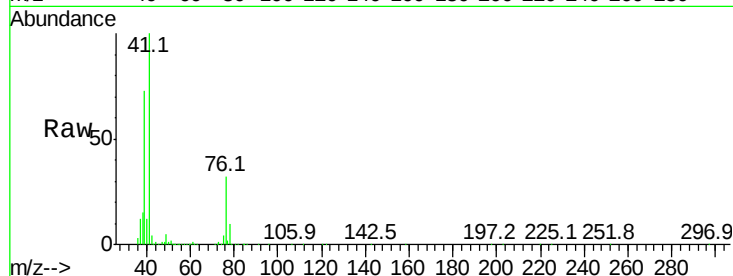
Tgt Ion: 41 Resp: 1063461

Ion Ratio Lower Upper

41 100

76 31.6 26.8 40.2

39 74.6 63.1 94.7



#22

trans-1,2-Dichloroethene

Concen: 10.639 ppbv

RT: 4.93 min Scan# 621

Delta R.T. -0.00 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

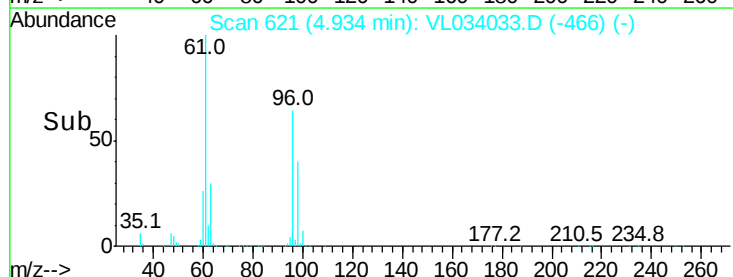
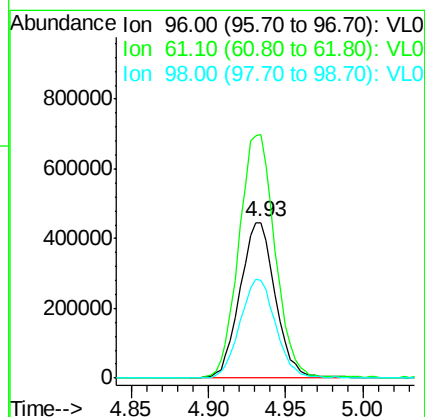
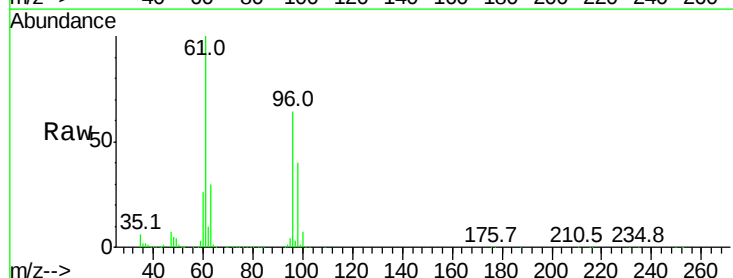
Tgt Ion: 96 Resp: 710134

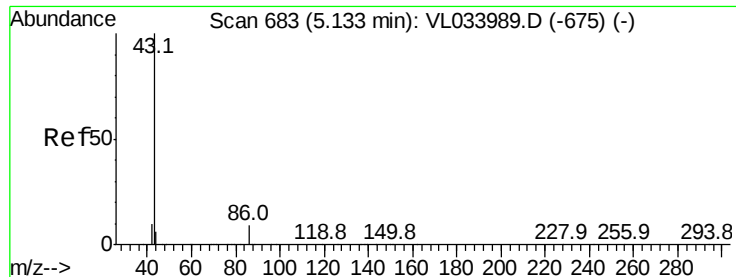
Ion Ratio Lower Upper

96 100

61 156.3 122.9 184.3

98 62.7 49.6 74.4





#23

Vinyl Acetate

Concen: 13.173 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2116835

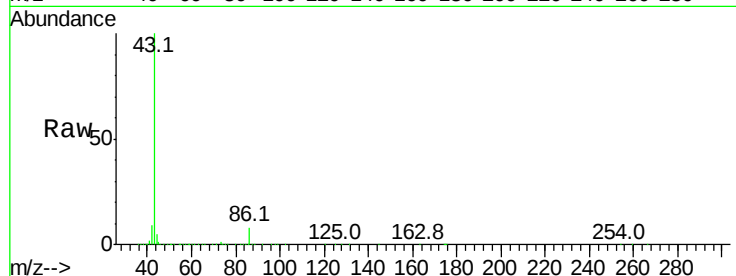
Ion Ratio Lower Upper

43 100

86 8.0 6.6 9.8

42 8.5 8.3 12.5

44 4.7 4.3 6.5

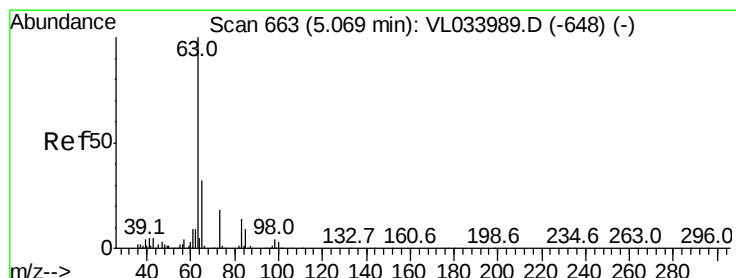
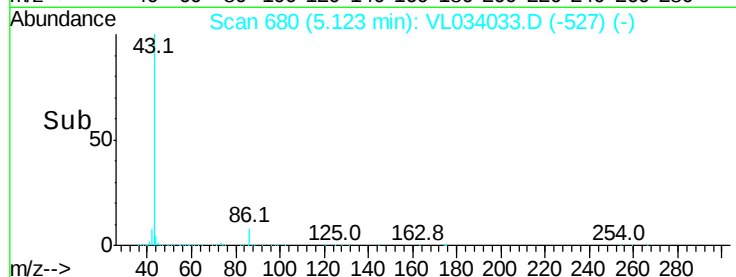
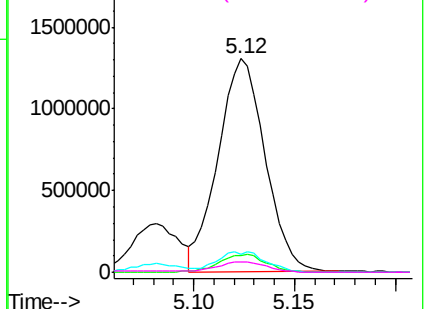


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 11.194 ppbv

RT: 5.06 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

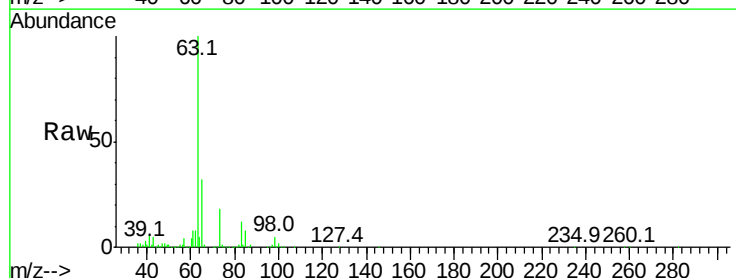
Tgt Ion: 63 Resp: 1594182

Ion Ratio Lower Upper

63 100

98 4.6 2.2 6.6

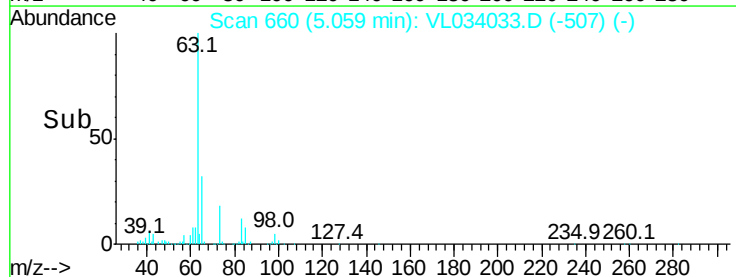
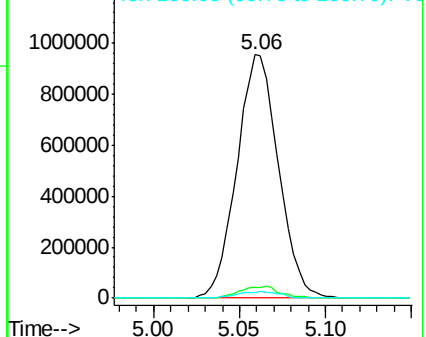
100 2.4 1.4 4.2

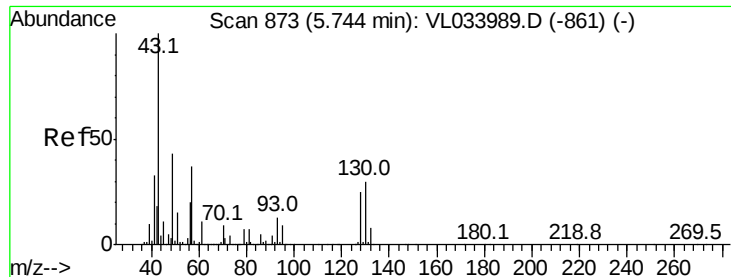


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 11.095 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2443284

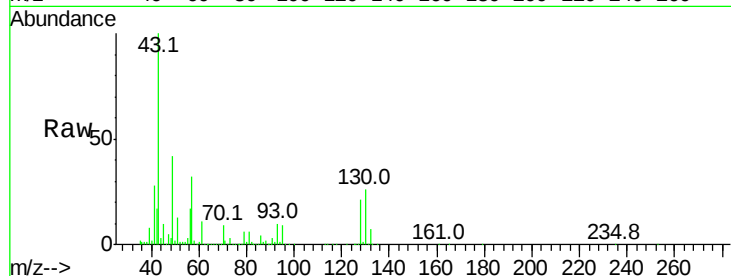
Ion Ratio Lower Upper

43 100

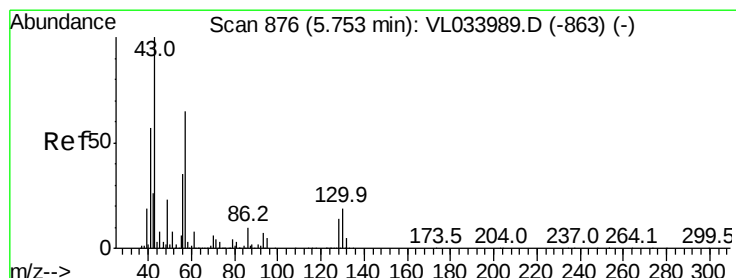
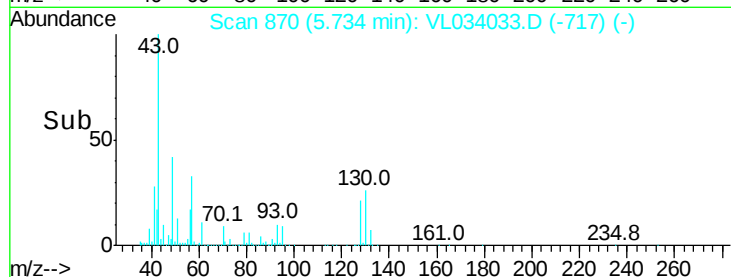
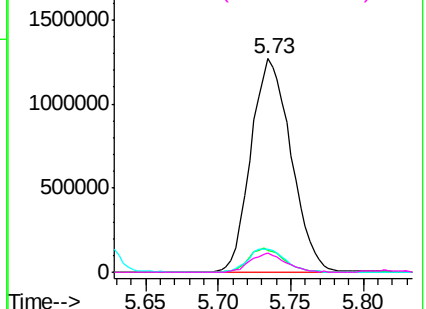
45 10.0 8.1 12.1

61 10.4 8.1 12.1

70 7.9 6.3 9.5



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: 10.936 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Tgt Ion: 57 Resp: 1102062

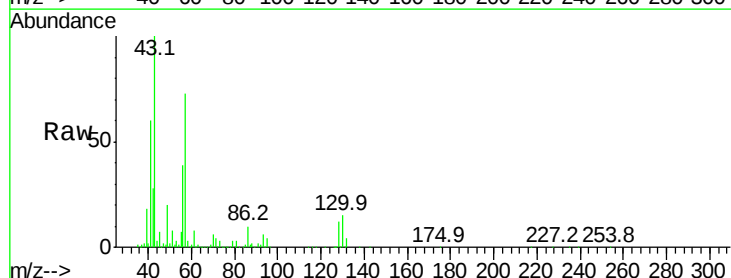
Ion Ratio Lower Upper

57 100

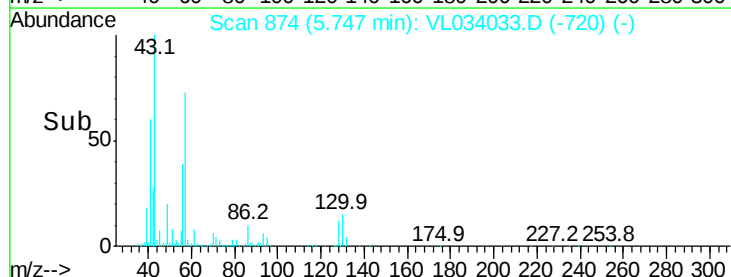
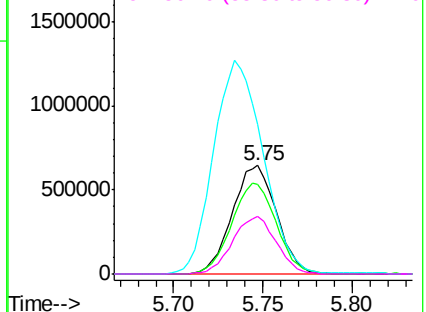
41 86.1 70.6 105.8

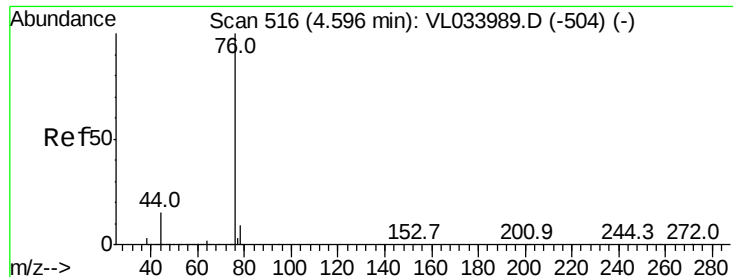
43 223.0 177.6 266.4

56 52.9 42.6 64.0



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: 10.206 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

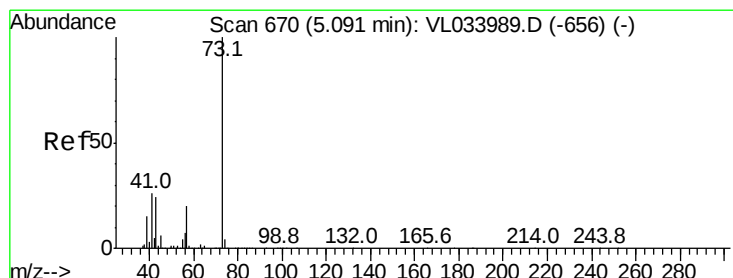
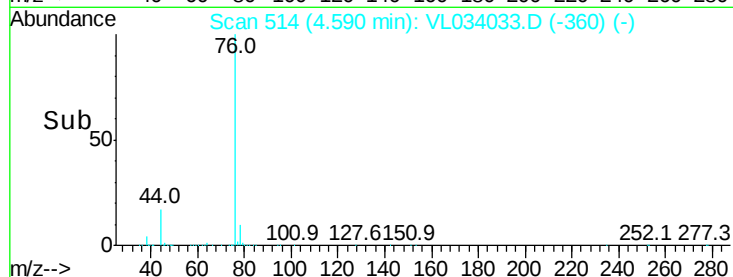
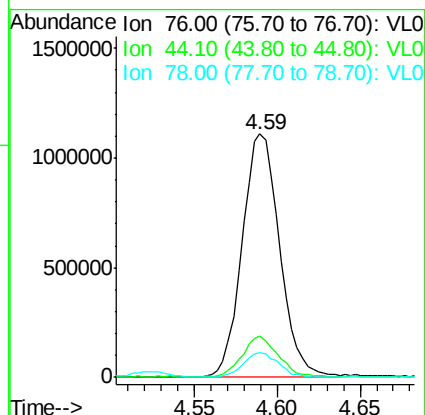
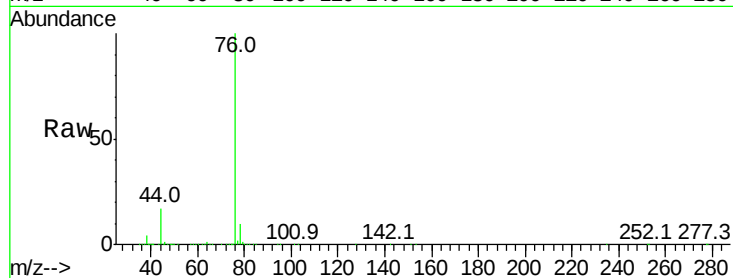
Tgt Ion: 76 Resp: 1748366

Ion Ratio Lower Upper

76 100

44 16.4 12.6 18.8

78 9.9 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 12.615 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL034033.D

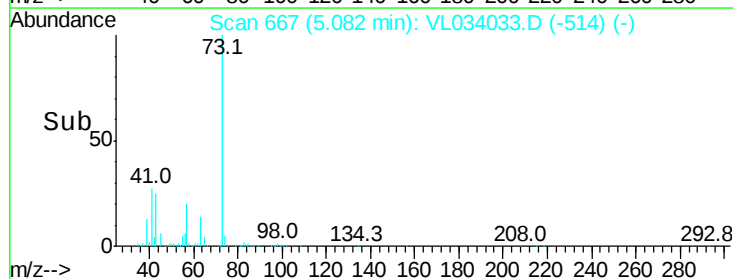
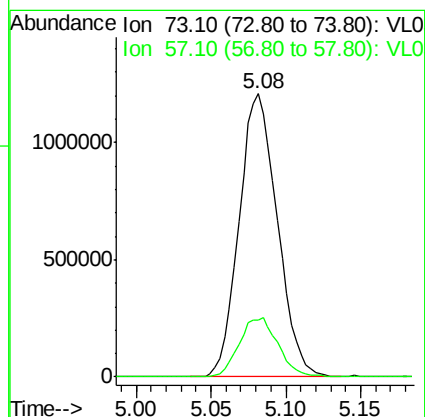
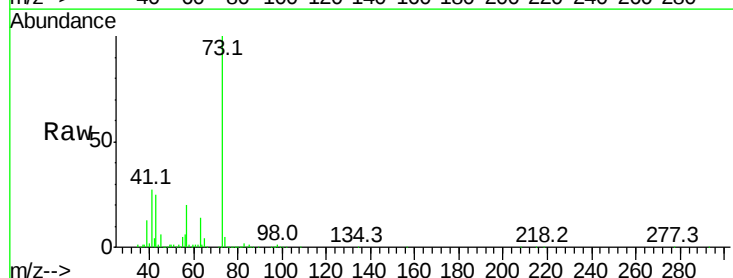
Acq: 12 Jul 2019 9:30

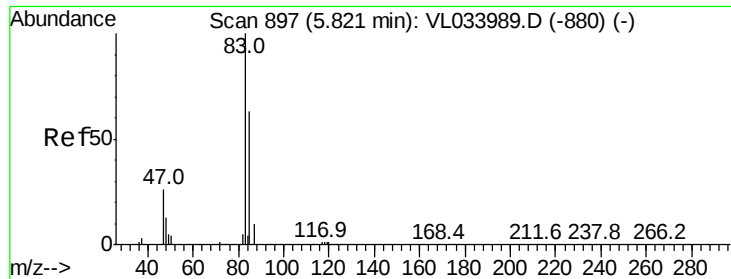
Tgt Ion: 73 Resp: 2152751

Ion Ratio Lower Upper

73 100

57 21.4 16.9 25.3





#29

Chloroform

Concen: 9.712 ppbv

RT: 5.81 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

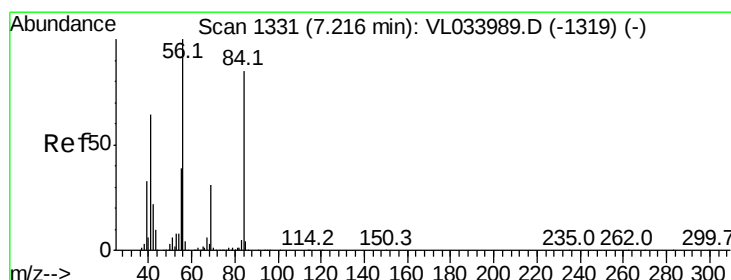
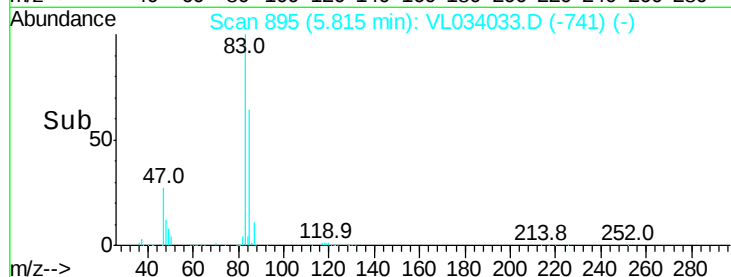
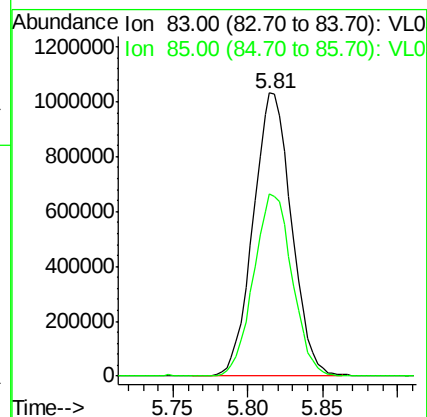
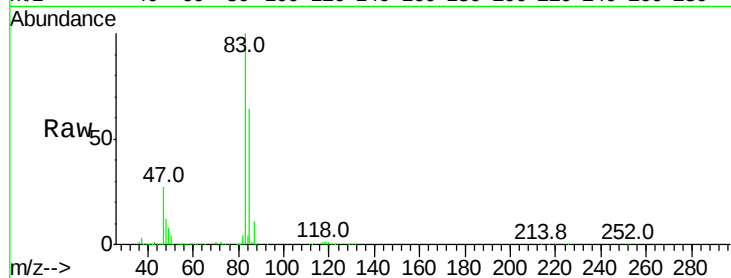
VSTDCCC010EC

Tgt Ion: 83 Resp: 1839294

Ion Ratio Lower Upper

83 100

85 64.1 50.6 75.8



#30

Cyclohexane

Concen: 13.413 ppbv

RT: 7.21 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

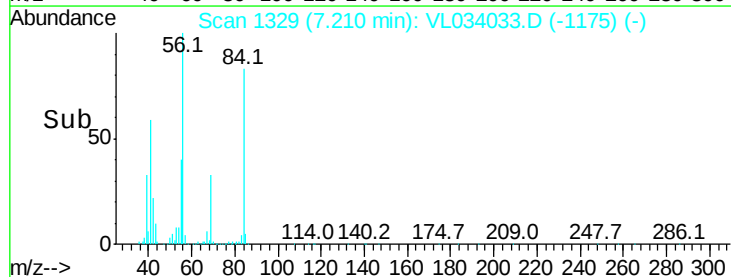
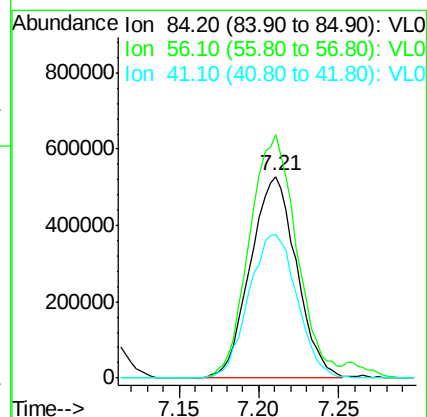
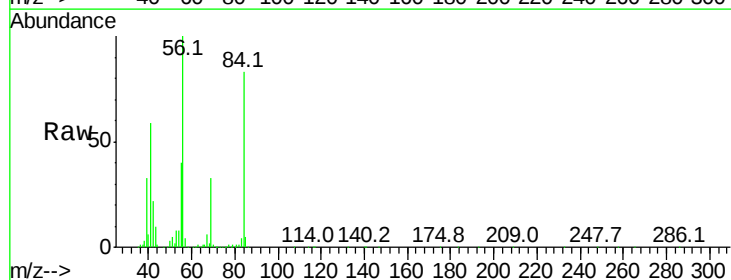
Tgt Ion: 84 Resp: 1043821

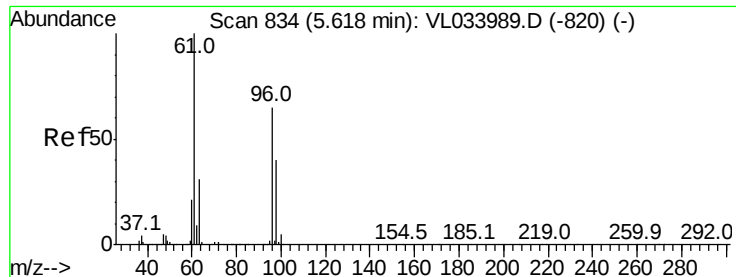
Ion Ratio Lower Upper

84 100

56 127.7 103.7 155.5

41 74.6 62.6 94.0



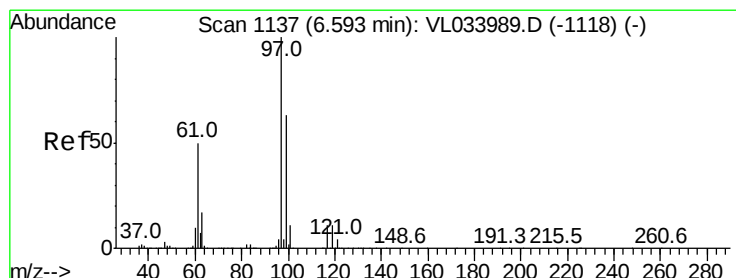
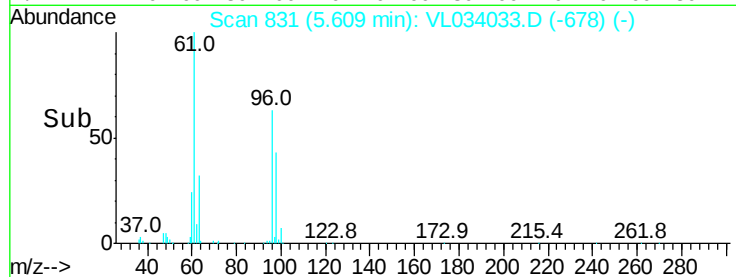
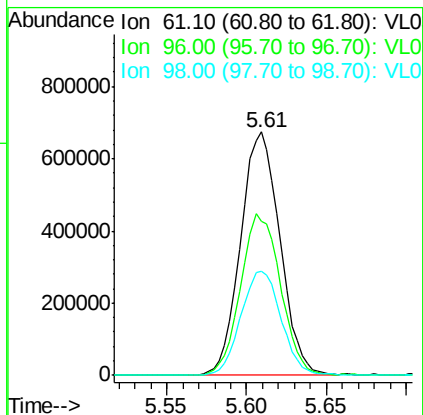
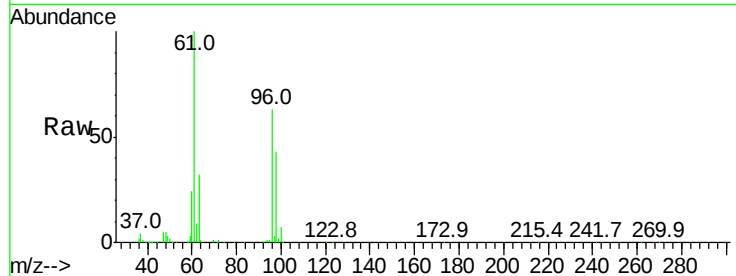


#31

cis-1,2-Dichloroethene
Concen: 11.611 ppbv
RT: 5.61 min Scan# 831
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

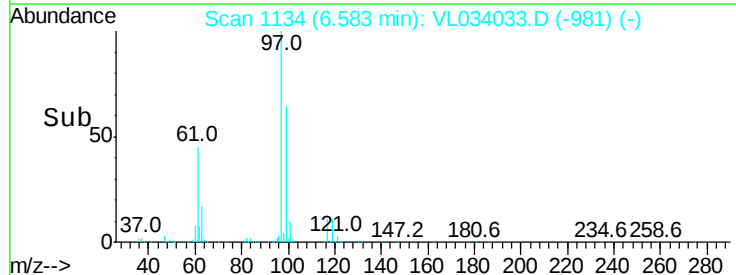
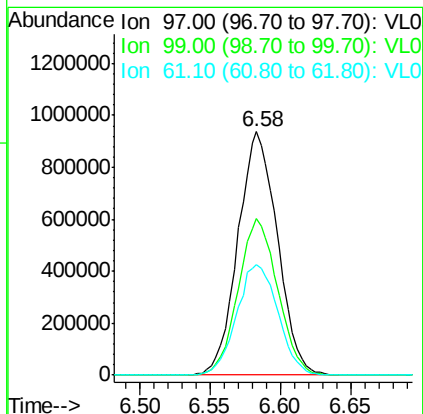
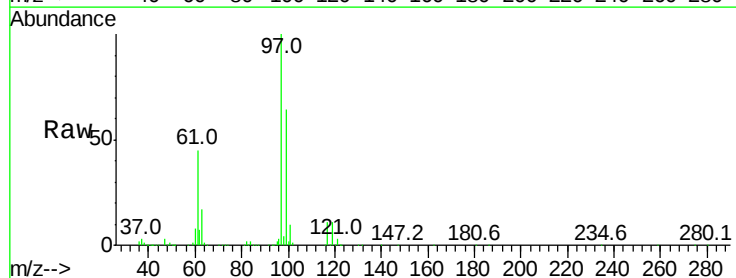
Tgt Ion: 61 Resp: 1130393
Ion Ratio Lower Upper
61 100
96 63.3 51.8 77.6
98 43.0 32.1 48.1

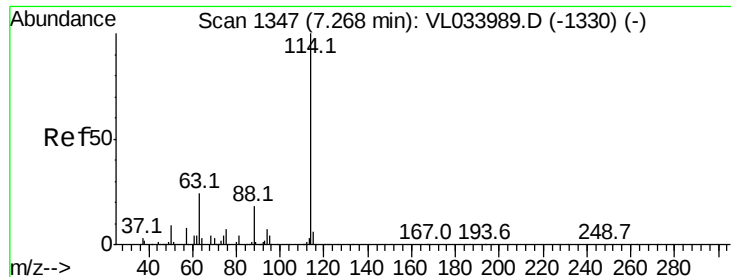


#32

1,1,1-Trichloroethane
Concen: 9.568 ppbv
RT: 6.58 min Scan# 1134
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

Tgt Ion: 97 Resp: 1836521
Ion Ratio Lower Upper
97 100
99 64.3 51.9 77.9
61 47.6 39.8 59.8

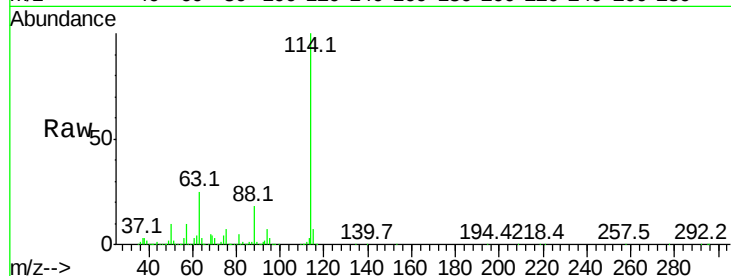




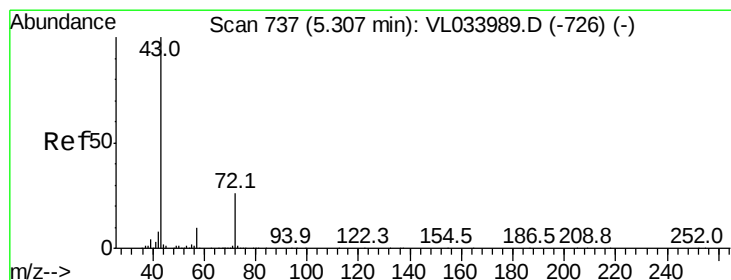
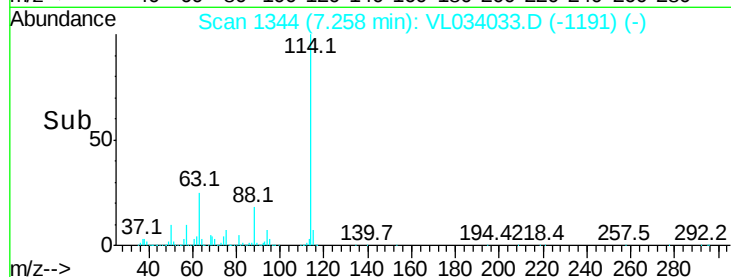
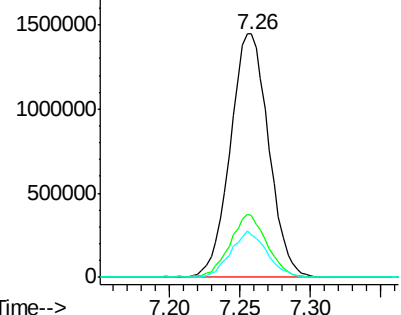
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1344
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:114 Resp: 2753381
 Ion Ratio Lower Upper
 114 100
 63 25.1 20.2 30.2
 88 17.8 14.1 21.1

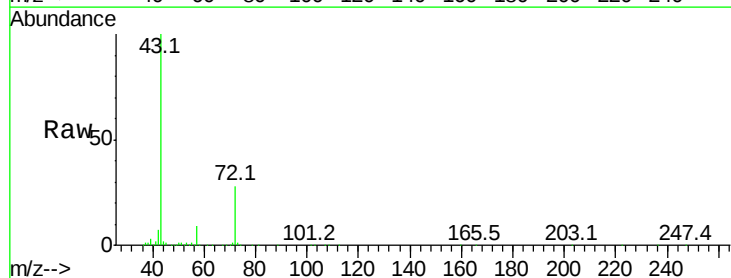


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

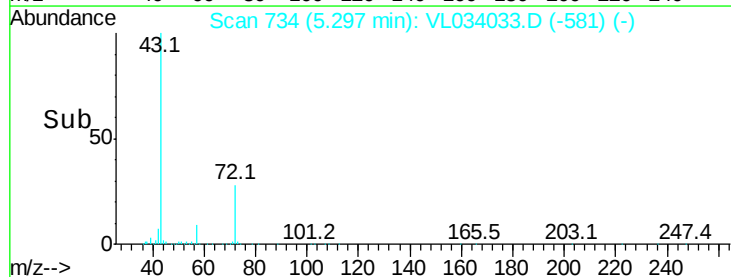
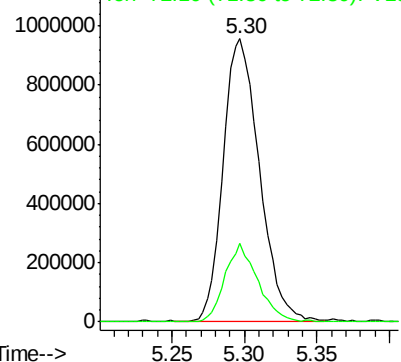


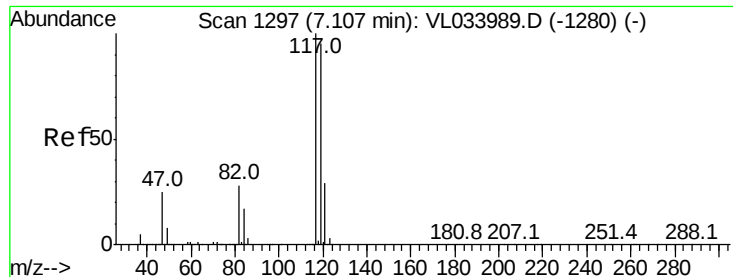
#34
 2-Butanone
 Concen: 11.414 ppbv
 RT: 5.30 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

Tgt Ion: 43 Resp: 1663205
 Ion Ratio Lower Upper
 43 100
 72 25.3 19.9 29.9



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





#35

Carbon Tetrachloride

Concen: 9.650 ppbv

RT: 7.09 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

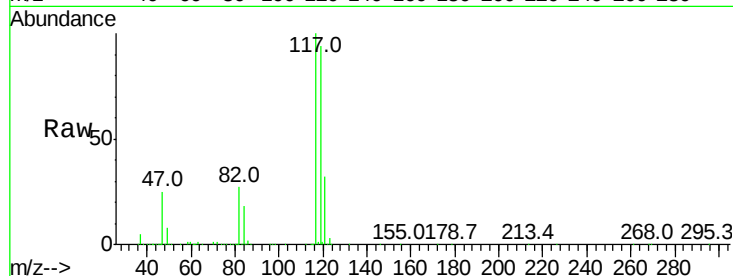
Tgt Ion:117 Resp: 2103333

Ion Ratio Lower Upper

117 100

119 94.4 75.8 113.6

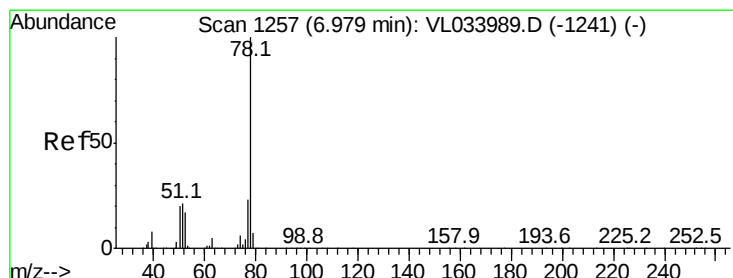
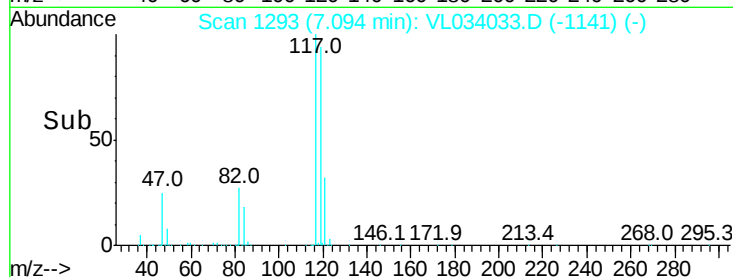
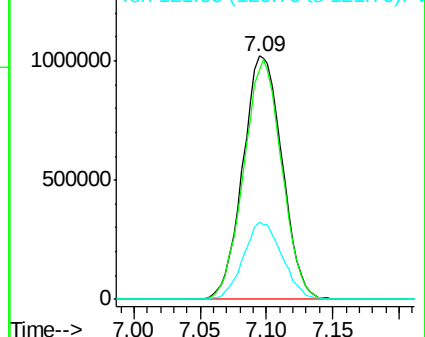
121 31.7 23.4 35.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.781 ppbv

RT: 6.97 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

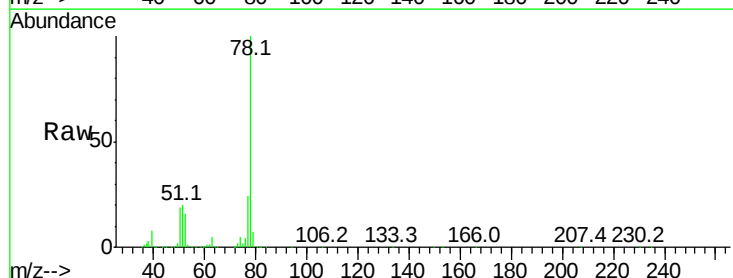
Tgt Ion: 78 Resp: 2538094

Ion Ratio Lower Upper

78 100

77 23.8 18.7 28.1

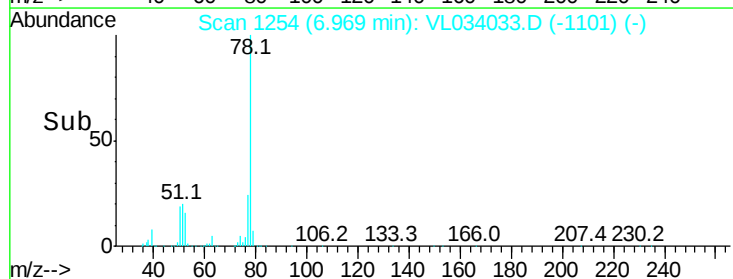
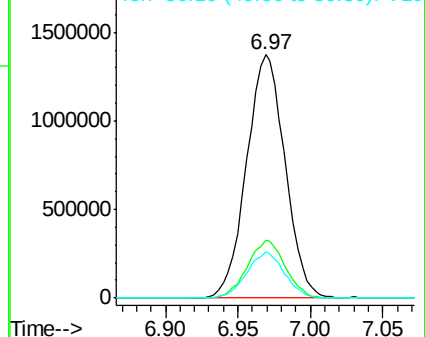
50 19.3 16.2 24.2

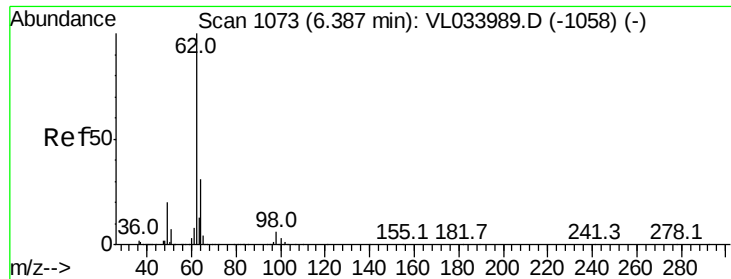


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

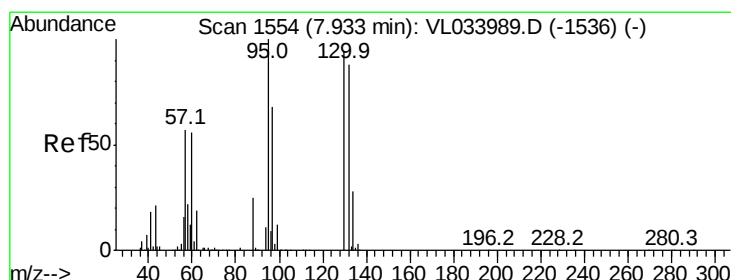
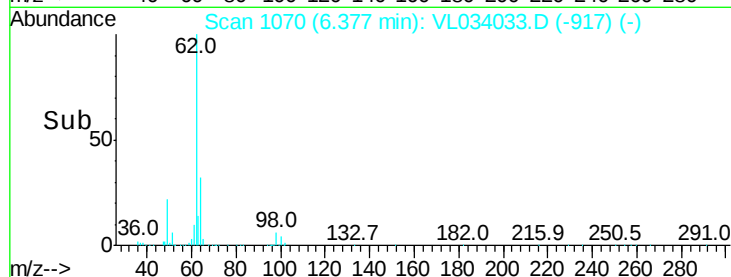
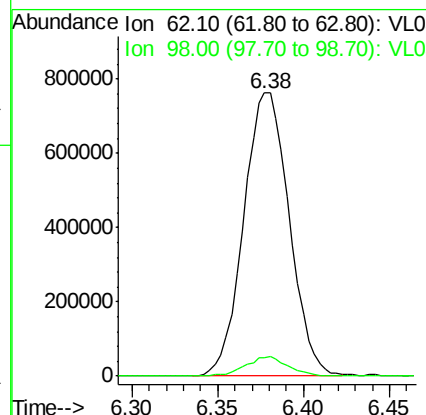
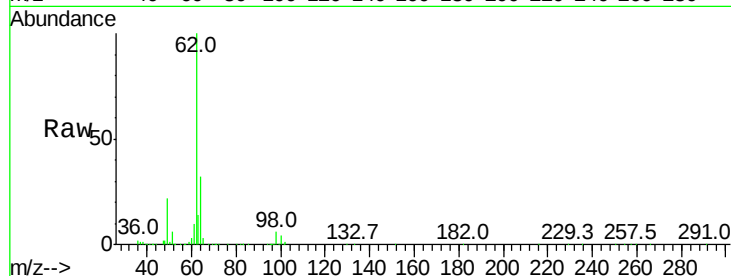




#37
 1,2-Dichloroethane
 Concen: 8.814 ppbv
 RT: 6.38 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

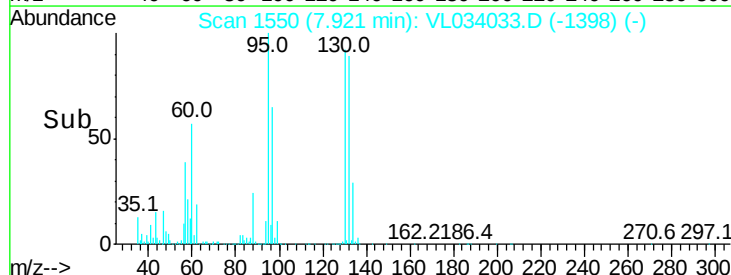
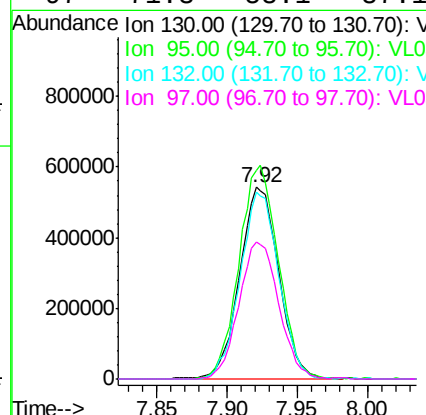
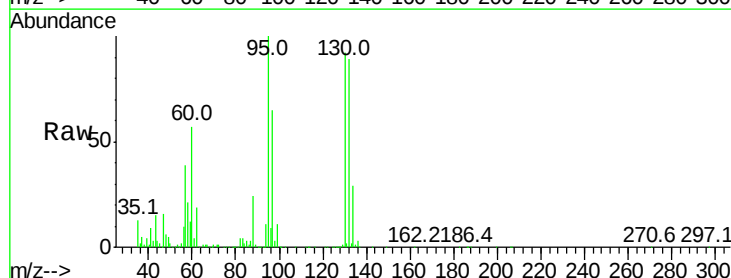
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

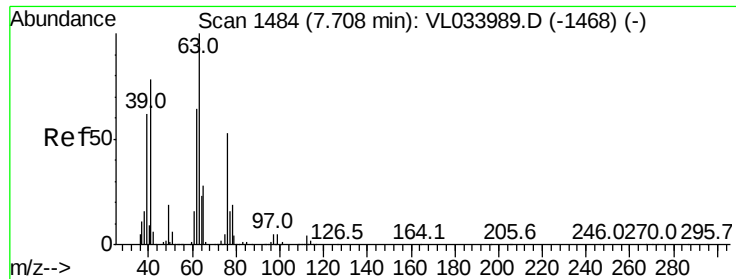
Tgt Ion: 62 Resp: 1399000
 Ion Ratio Lower Upper
 62 100
 98 6.3 4.4 6.6



#38
 Trichloroethene
 Concen: 10.953 ppbv
 RT: 7.92 min Scan# 1550
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

Tgt Ion: 130 Resp: 1050015
 Ion Ratio Lower Upper
 130 100
 95 109.1 85.5 128.3
 132 97.3 75.1 112.7
 97 71.3 58.1 87.1





#39

1,2-Dichloropropane

Concen: 11.352 ppbv

RT: 7.70 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

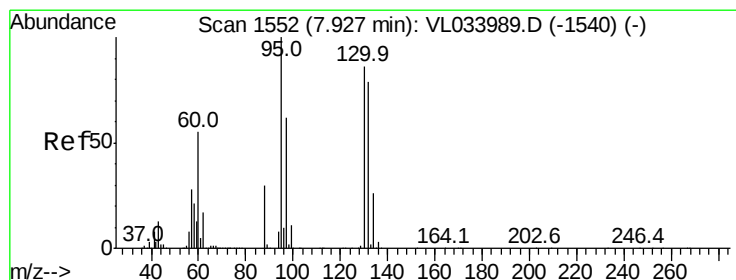
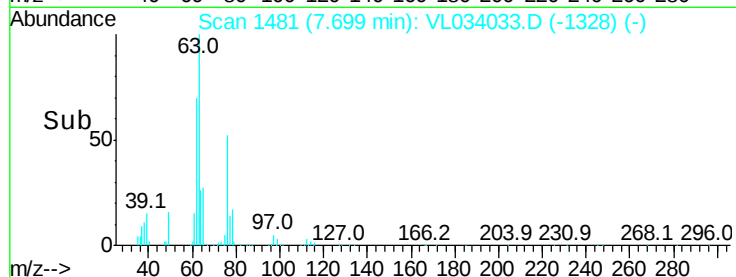
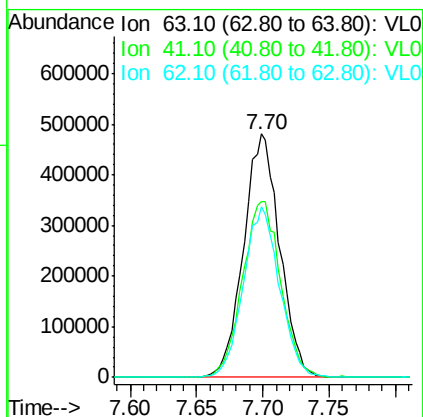
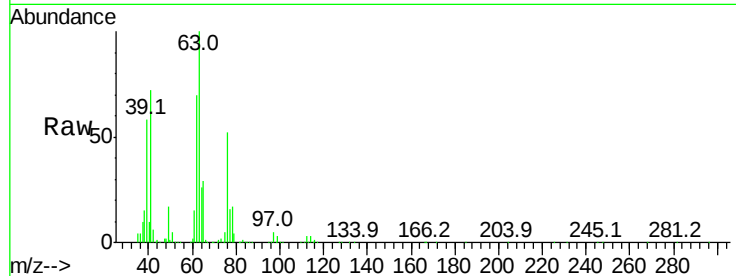
Tgt Ion: 63 Resp: 909421

Ion Ratio Lower Upper

63 100

41 72.3 62.3 93.5

62 70.0 51.4 77.2



#40

1,4-Dioxane

Concen: 9.085 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Tgt Ion: 88 Resp: 336018

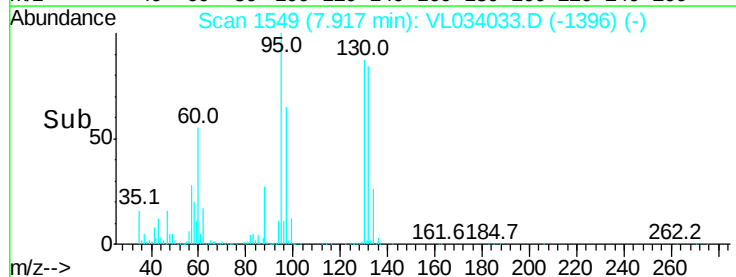
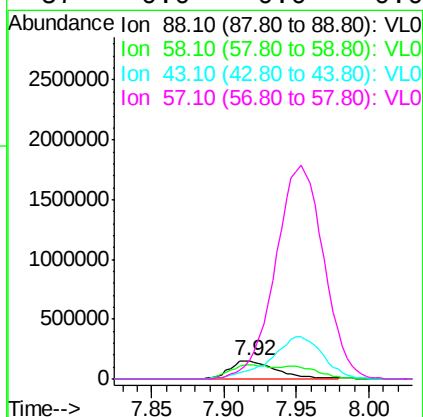
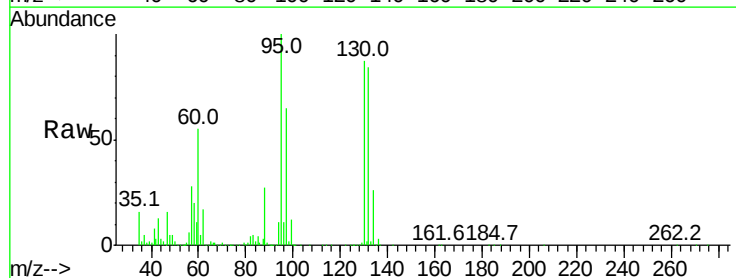
Ion Ratio Lower Upper

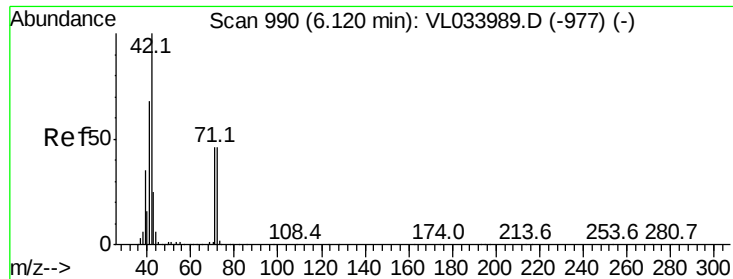
88 100

58 131.5 99.1 148.7

43 0.0 0.0 0.0

57 0.0 0.0 0.0

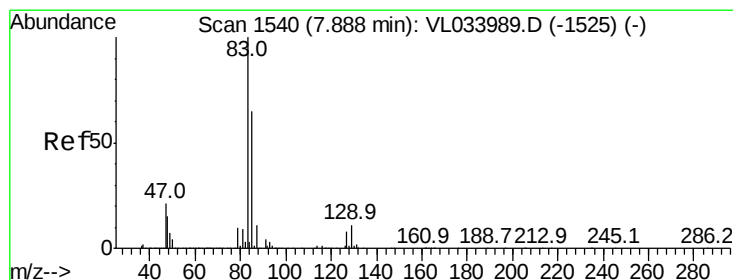
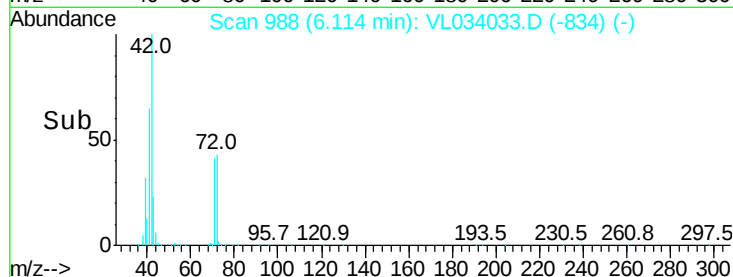
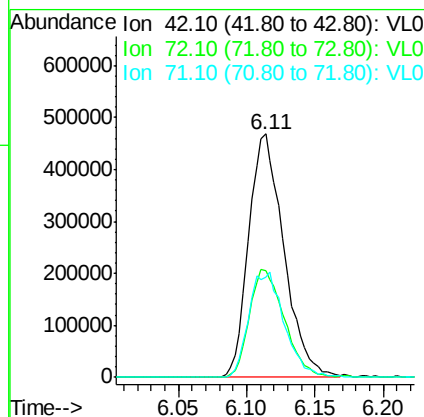
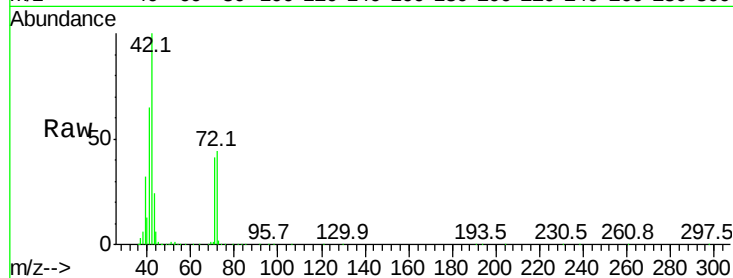




#41
Tetrahydrofuran
Concen: 11.733 ppbv
RT: 6.11 min Scan# 988
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

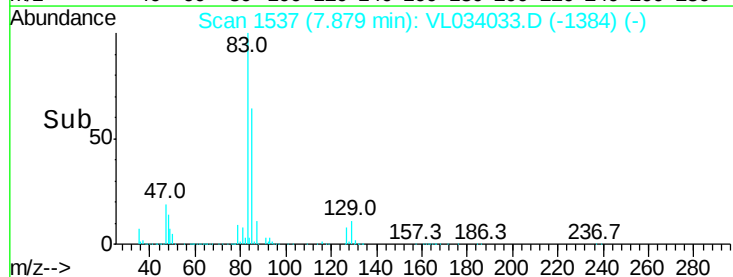
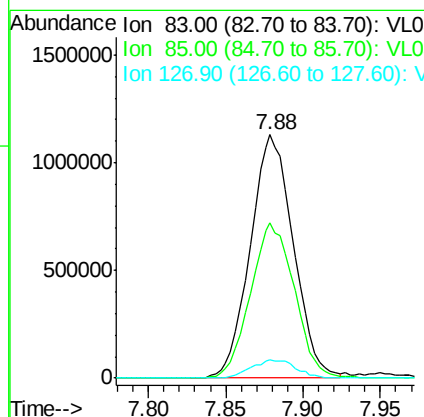
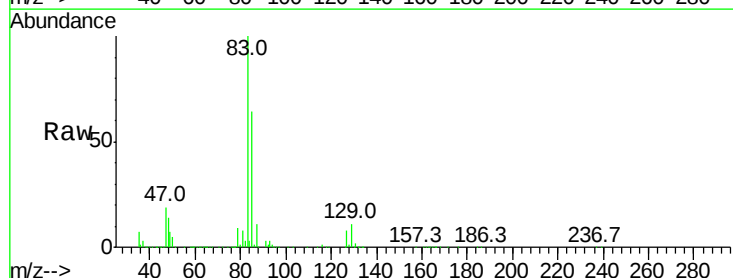
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

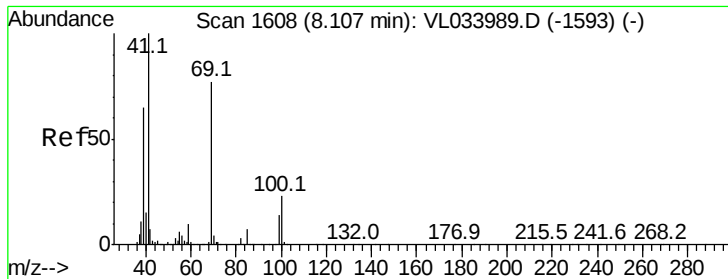
Tgt Ion: 42 Resp: 838461
Ion Ratio Lower Upper
42 100
72 44.5 37.3 55.9
71 43.9 36.2 54.2



#42
Bromodichloromethane
Concen: 10.292 ppbv
RT: 7.88 min Scan# 1537
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

Tgt Ion: 83 Resp: 2191833
Ion Ratio Lower Upper
83 100
85 64.0 51.8 77.8
127 7.6 6.5 9.7

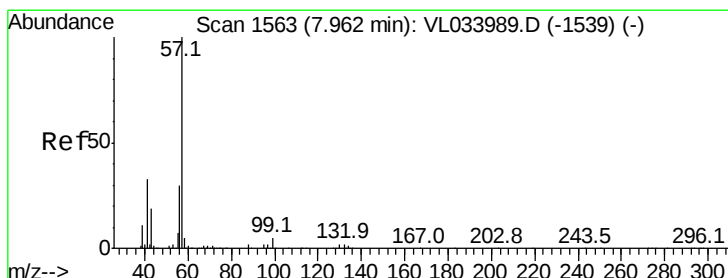
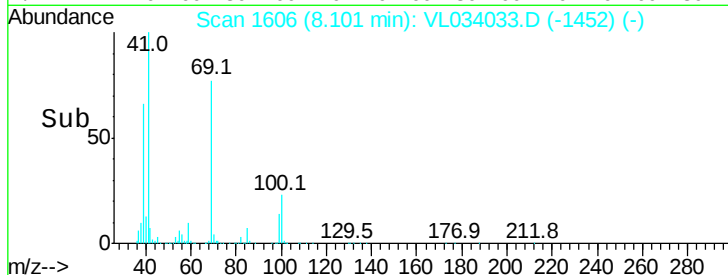
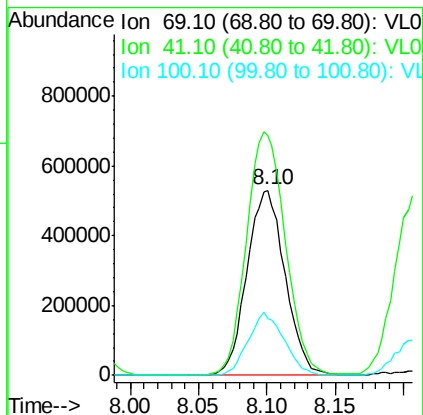
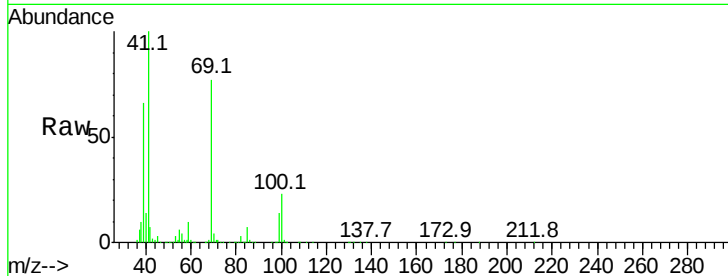




#43
Methyl Methacrylate
Concen: 12.574 ppbv
RT: 8.10 min Scan# 1606
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

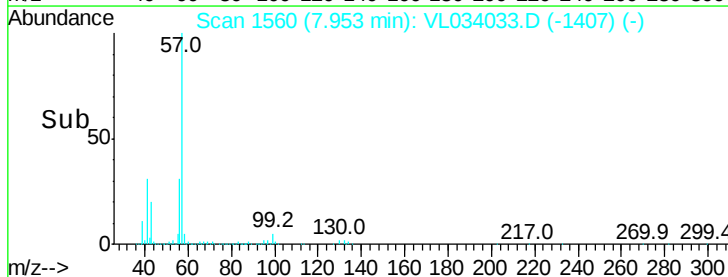
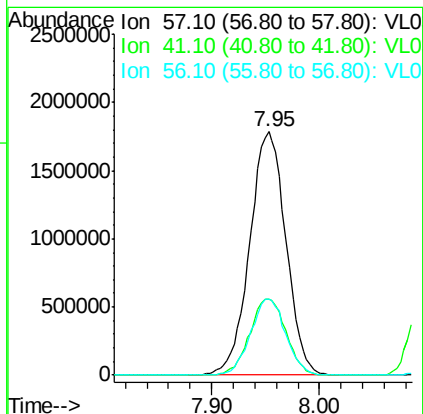
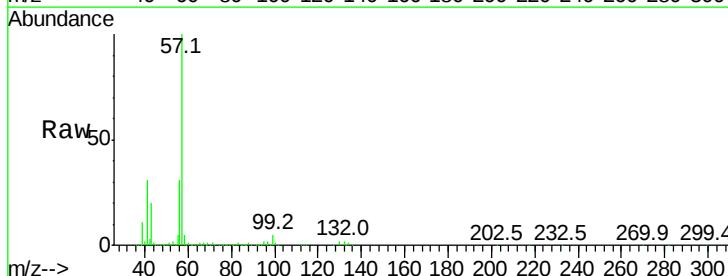
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

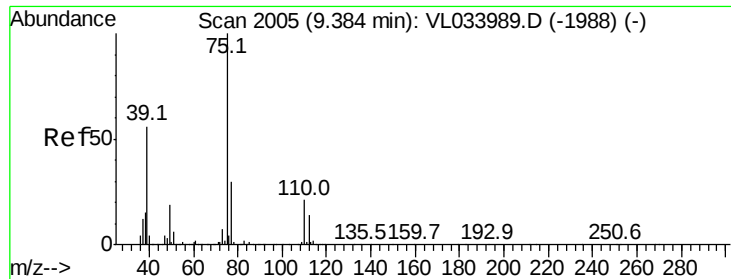
Tgt Ion: 69 Resp: 1027821
Ion Ratio Lower Upper
69 100
41 134.5 109.1 163.7
100 32.2 25.3 37.9



#44
2,2,4-Trimethylpentane
Concen: 11.190 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

Tgt Ion: 57 Resp: 4161307
Ion Ratio Lower Upper
57 100
41 31.5 26.1 39.1
56 30.4 24.4 36.6





#45

t-1,3-Dichloropropene

Concen: 12.726 ppbv

RT: 9.37 min Scan# 2002

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

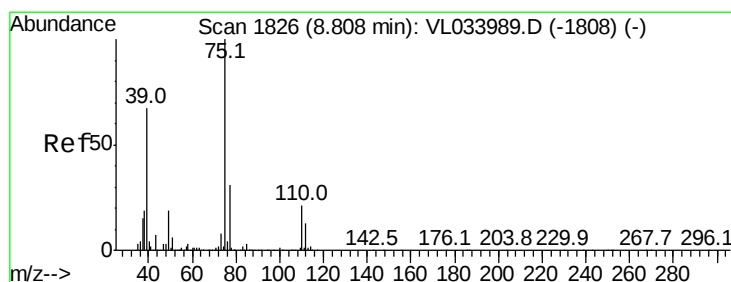
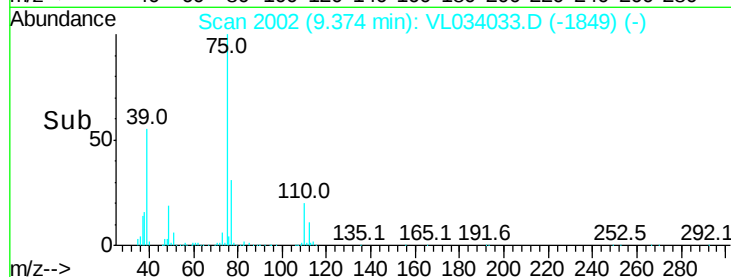
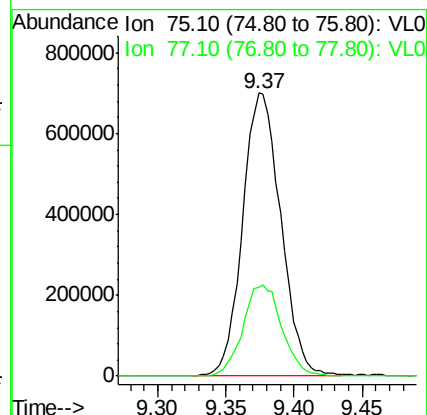
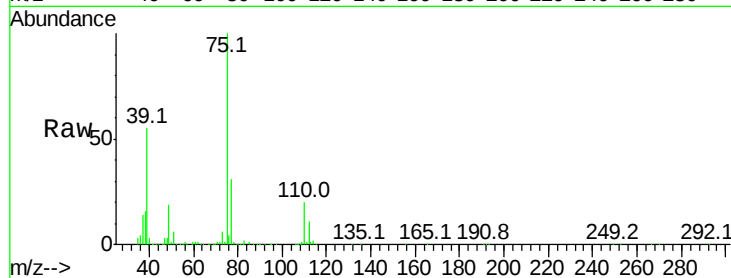
VSTDCCC010EC

Tgt Ion: 75 Resp: 1360311

Ion Ratio Lower Upper

75 100

77 31.3 24.3 36.5



#46

cis-1,3-Dichloropropene

Concen: 12.449 ppbv

RT: 8.80 min Scan# 1823

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

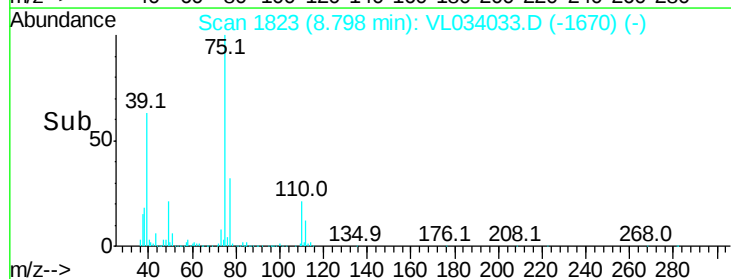
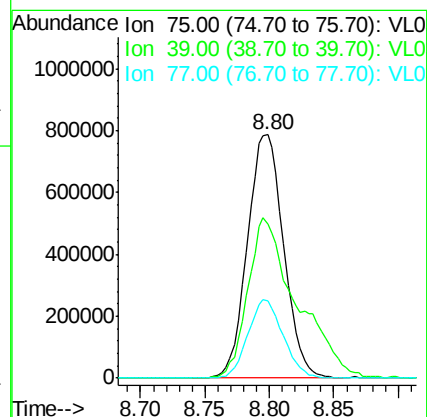
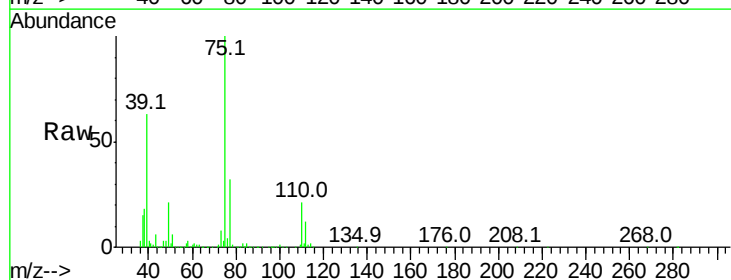
Tgt Ion: 75 Resp: 1541098

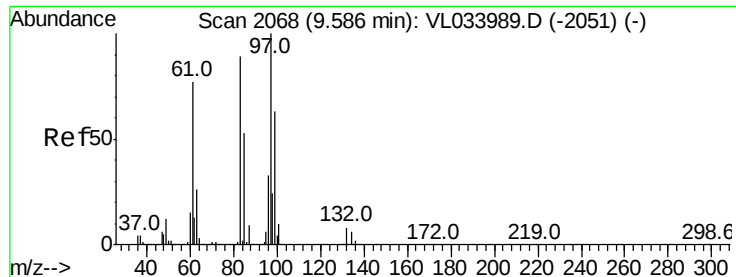
Ion Ratio Lower Upper

75 100

39 63.2 53.8 80.6

77 31.8 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 10.510 ppbv

RT: 9.58 min Scan# 2065

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 97 Resp: 1058626

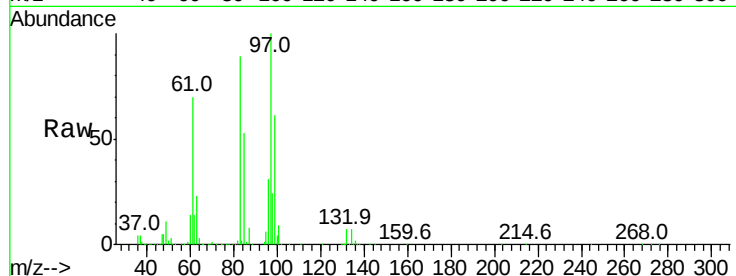
Ion Ratio Lower Upper

97 100

83 89.2 71.1 106.7

85 52.9 42.6 64.0

99 61.2 50.3 75.5

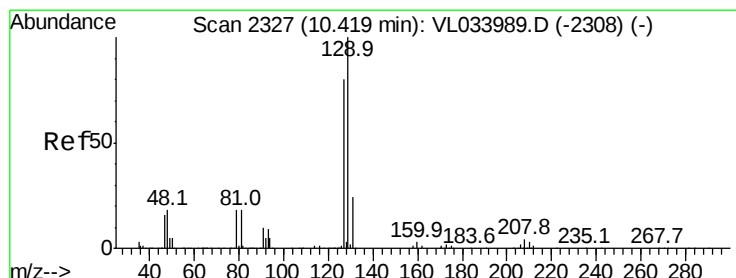
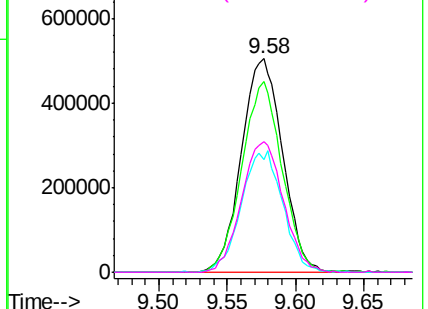
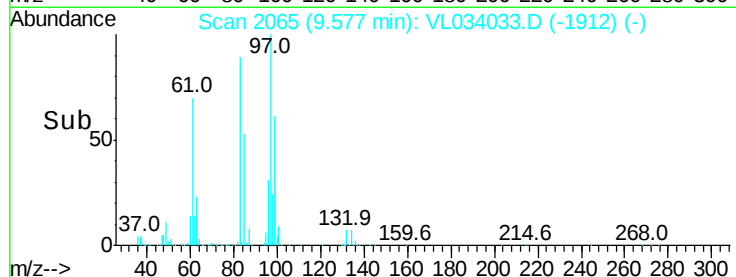


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.710 ppbv

RT: 10.41 min Scan# 2324

Delta R.T. -0.01 min

Lab File: VL034033.D

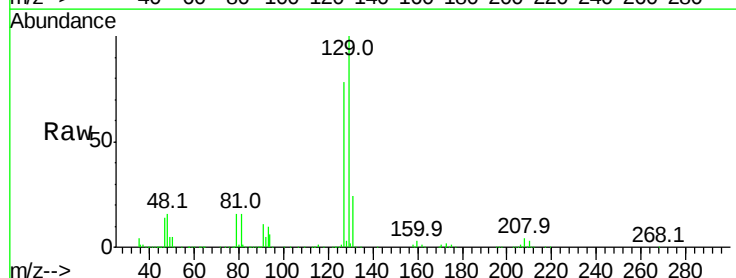
Acq: 12 Jul 2019 9:30

Tgt Ion: 129 Resp: 1866275

Ion Ratio Lower Upper

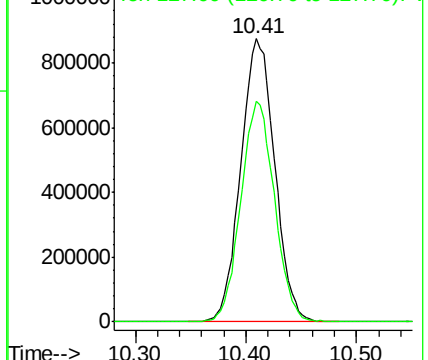
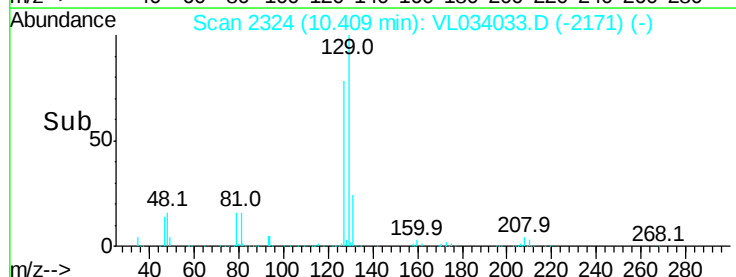
129 100

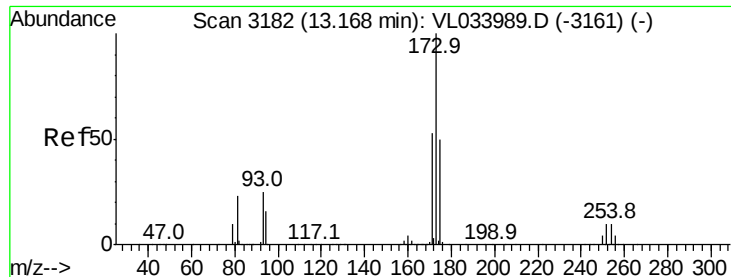
127 77.0 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.117 ppbv

RT: 13.16 min Scan# 3179

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

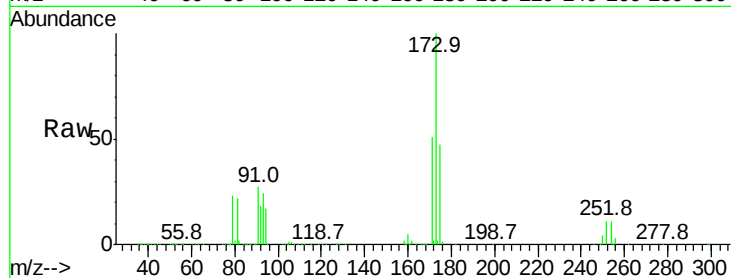
Tgt Ion:173 Resp: 1661162

Ion Ratio Lower Upper

173 100

175 49.5 39.3 58.9

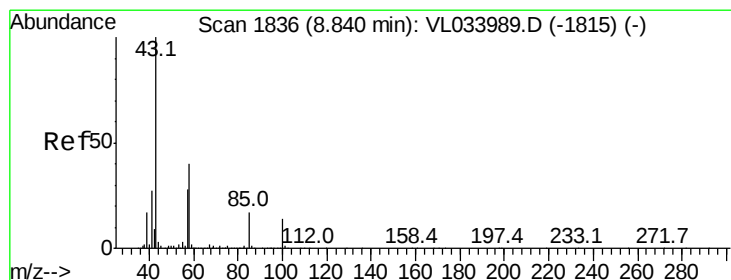
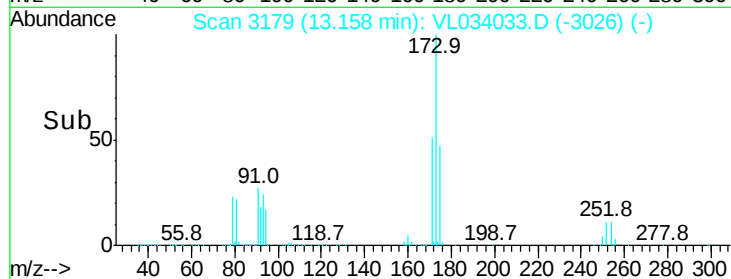
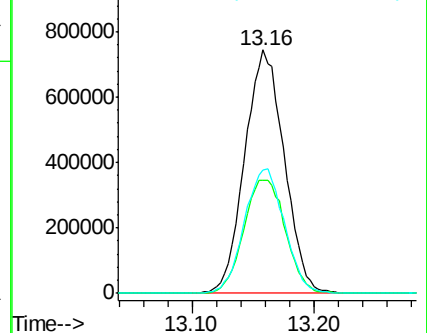
171 52.0 41.4 62.0



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: 11.438 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VL034033.D

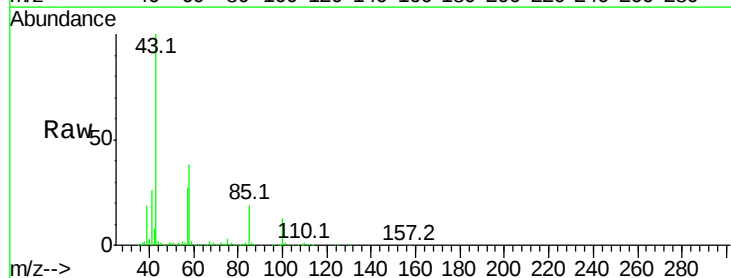
Acq: 12 Jul 2019 9:30

Tgt Ion: 43 Resp: 2473222

Ion Ratio Lower Upper

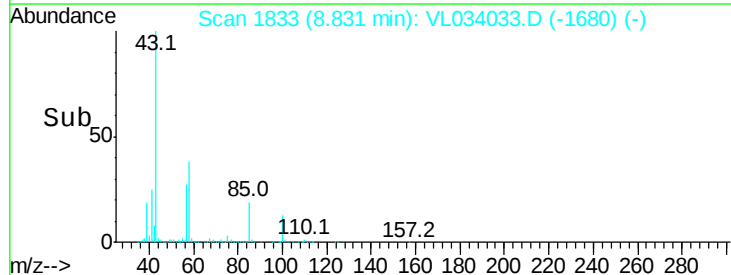
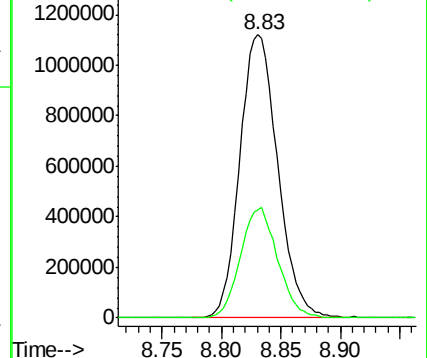
43 100

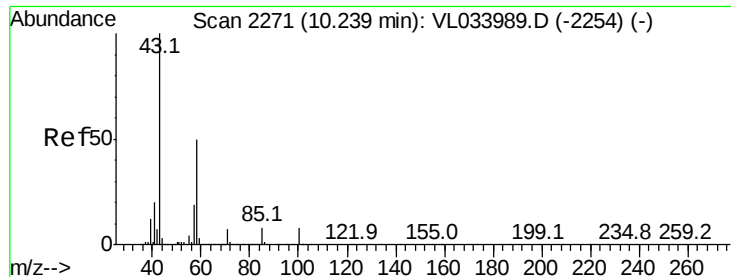
58 38.3 30.3 45.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

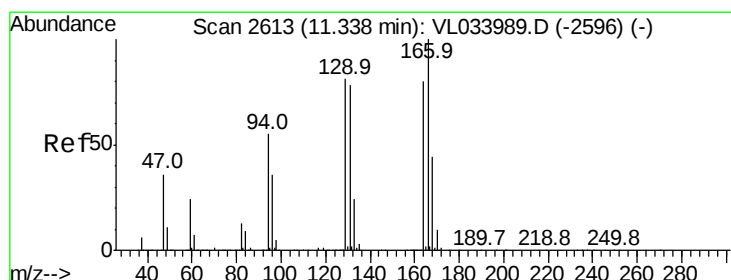
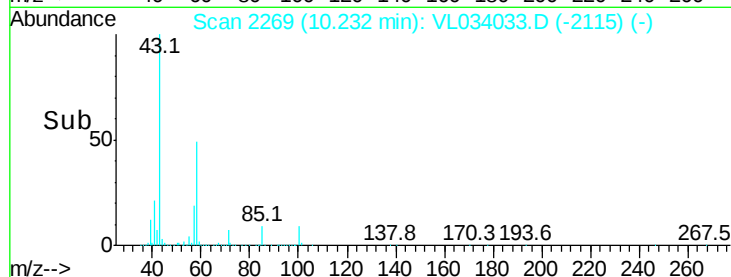
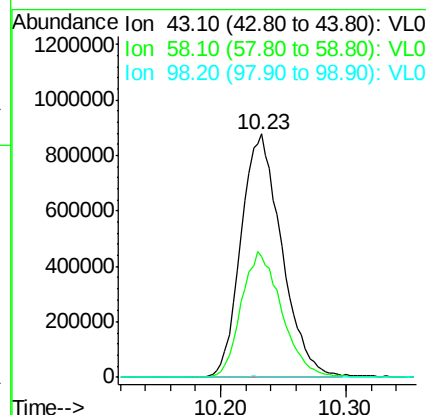
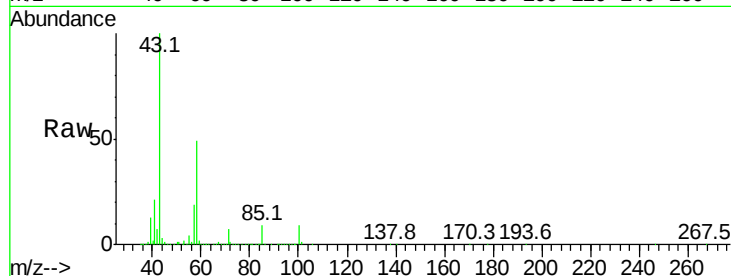




#51
2-Hexanone
Concen: 11.339 ppbv
RT: 10.23 min Scan# 2269
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

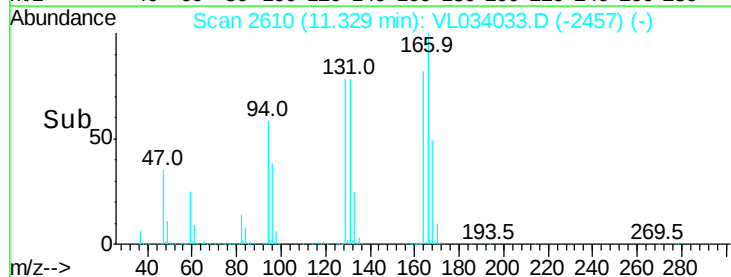
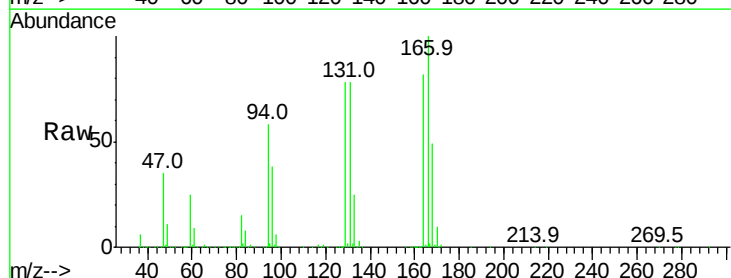
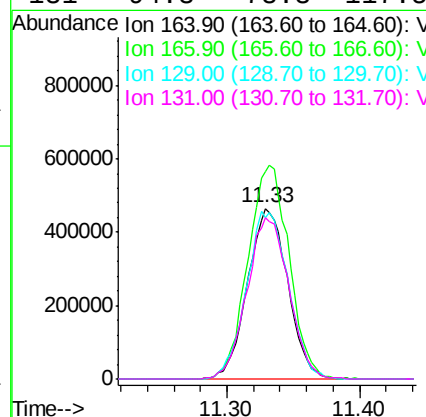
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

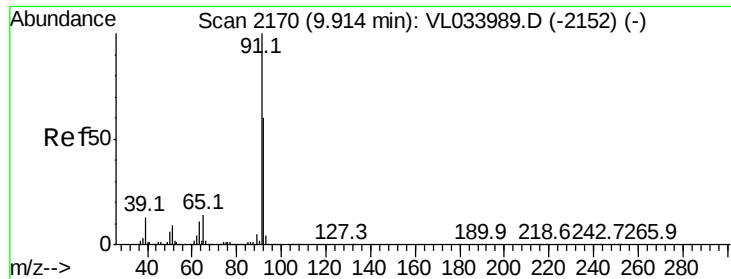
Tgt Ion: 43 Resp: 1977397
Ion Ratio Lower Upper
43 100
58 51.4 41.0 61.4
98 0.4 0.2 0.2#



#52
Tetrachloroethene
Concen: 10.563 ppbv
RT: 11.33 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

Tgt Ion: 164 Resp: 979490
Ion Ratio Lower Upper
164 100
166 121.5 100.2 150.2
129 94.5 81.0 121.6
131 94.3 78.3 117.5





#53

Toluene

Concen: 12.227 ppbv

RT: 9.90 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

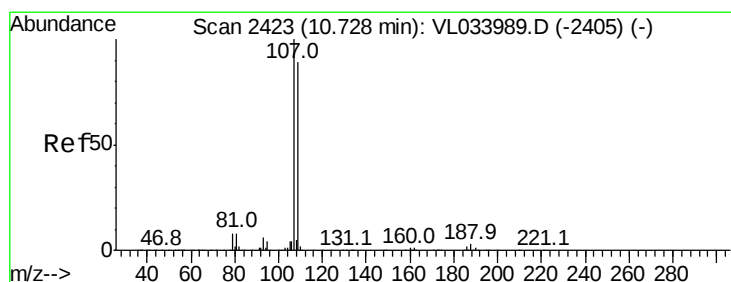
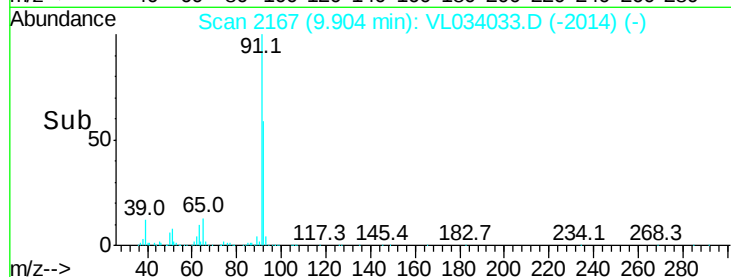
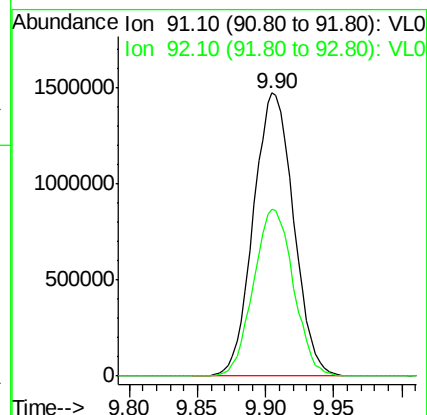
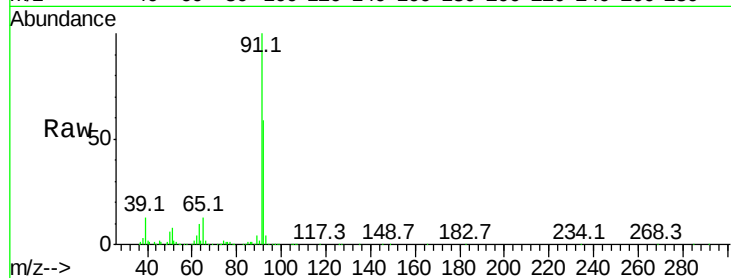
VSTDCCC010EC

Tgt Ion: 91 Resp: 3015507

Ion Ratio Lower Upper

91 100

92 58.7 47.7 71.5



#54

1,2-Dibromoethane

Concen: 10.856 ppbv

RT: 10.72 min Scan# 2420

Delta R.T. -0.01 min

Lab File: VL034033.D

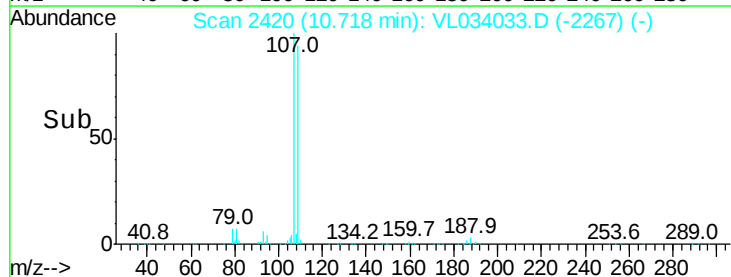
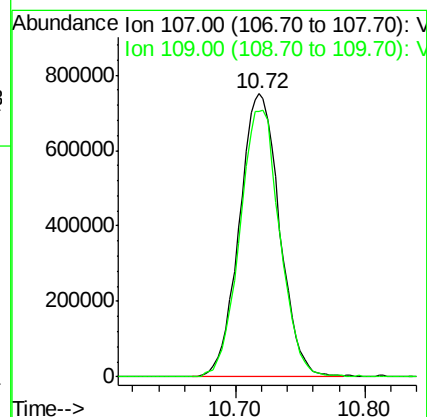
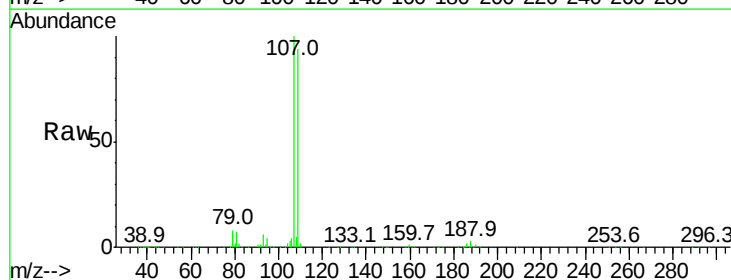
Acq: 12 Jul 2019 9:30

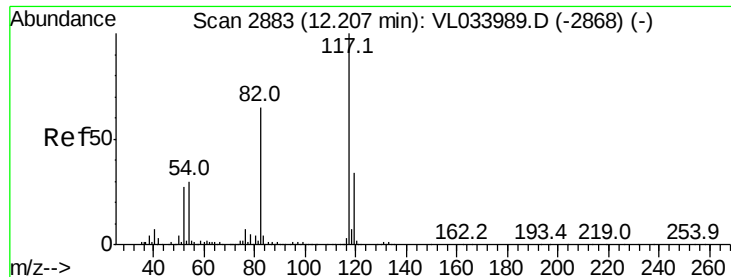
Tgt Ion: 107 Resp: 1613774

Ion Ratio Lower Upper

107 100

109 94.0 71.5 107.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.20 min Scan# 2880

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

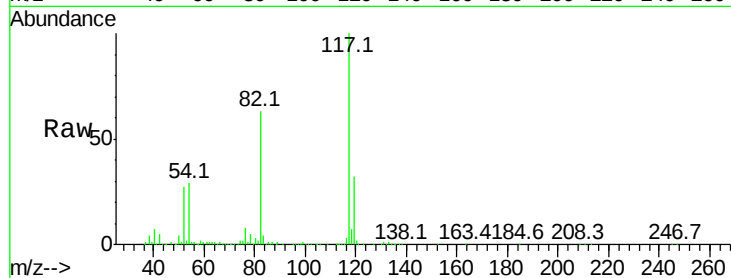
Tgt Ion:117 Resp: 3435964

Ion Ratio Lower Upper

117 100

82 51.7 50.8 76.2

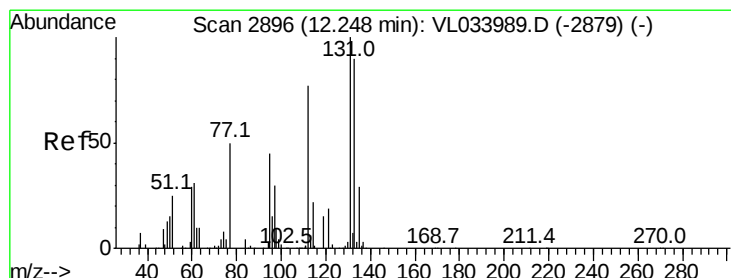
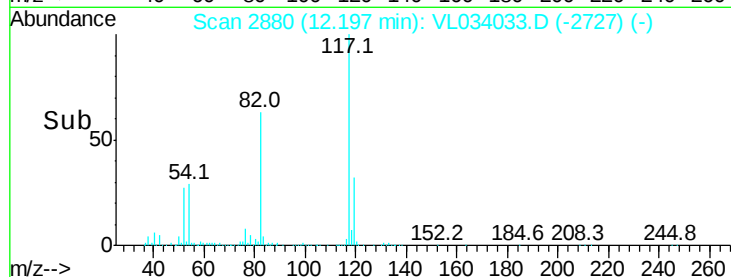
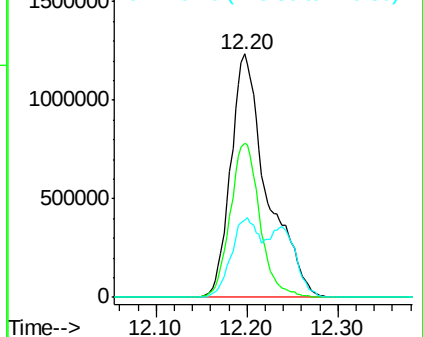
119 27.9 24.0 36.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.107 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

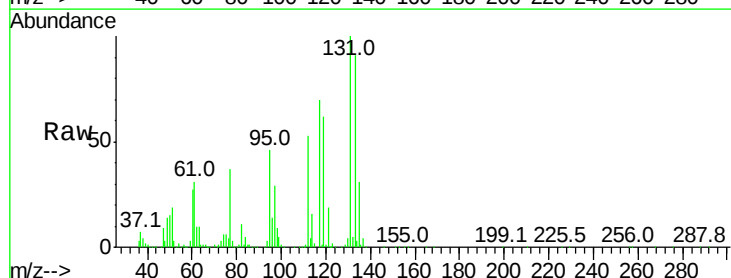
Tgt Ion:131 Resp: 1245034

Ion Ratio Lower Upper

131 100

133 94.4 76.2 114.2

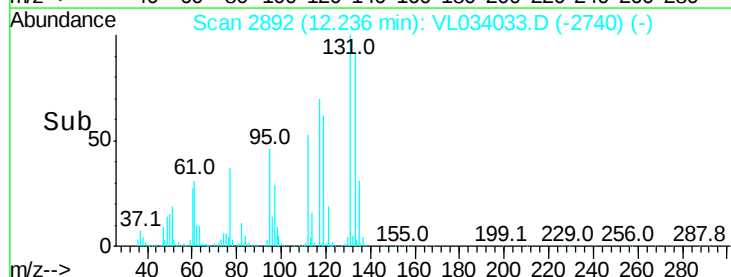
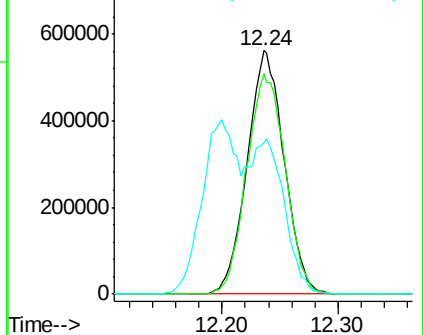
119 54.3 43.1 64.7

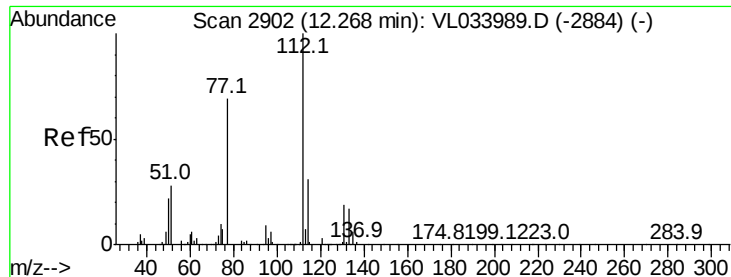


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.196 ppbv

RT: 12.26 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

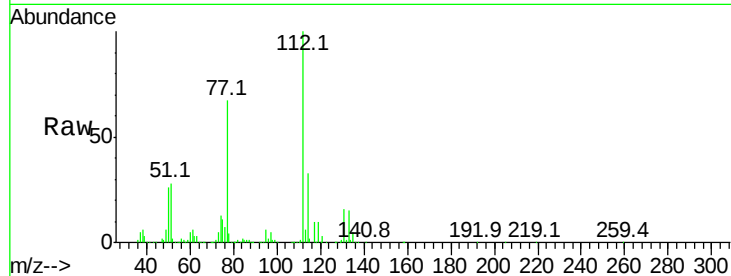
Tgt Ion: 112 Resp: 2242125

Ion Ratio Lower Upper

112 100

77 66.7 55.9 83.9

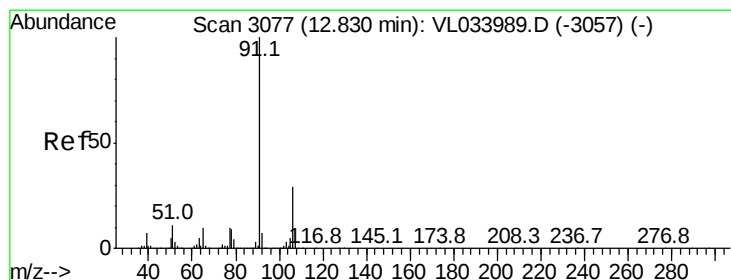
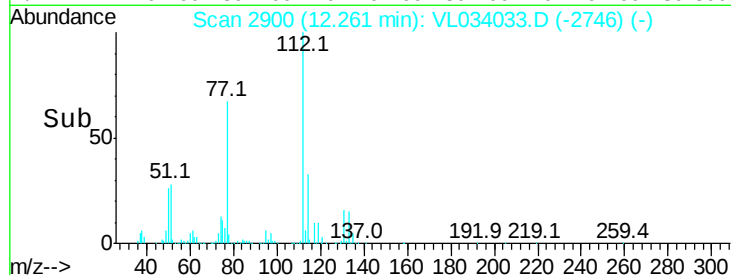
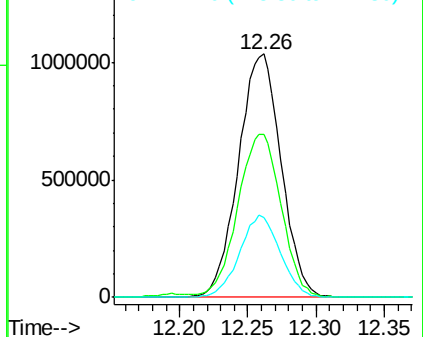
114 32.9 27.6 33.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.670 ppbv

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034033.D

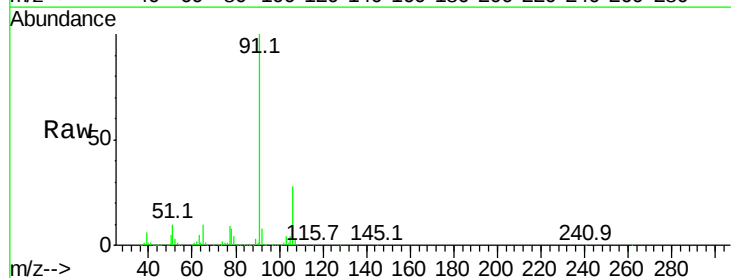
Acq: 12 Jul 2019 9:30

Tgt Ion: 91 Resp: 3995341

Ion Ratio Lower Upper

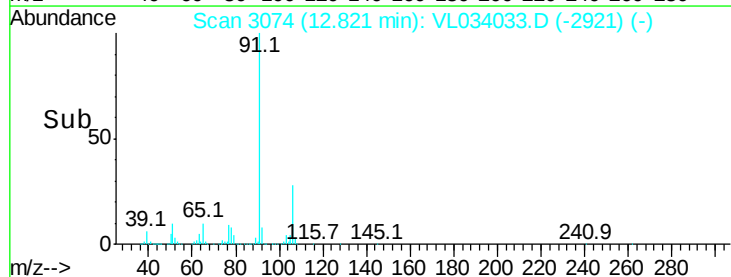
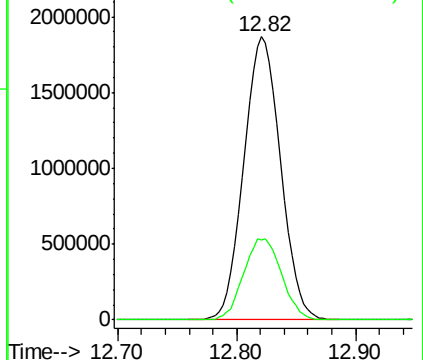
91 100

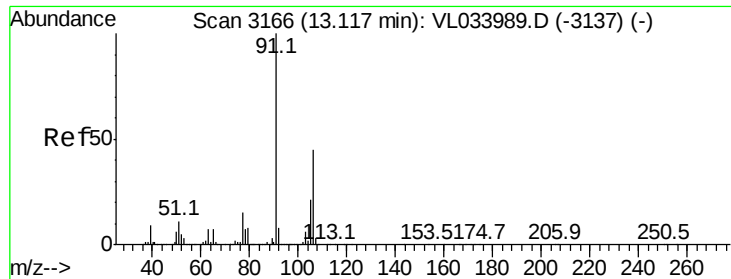
106 28.1 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

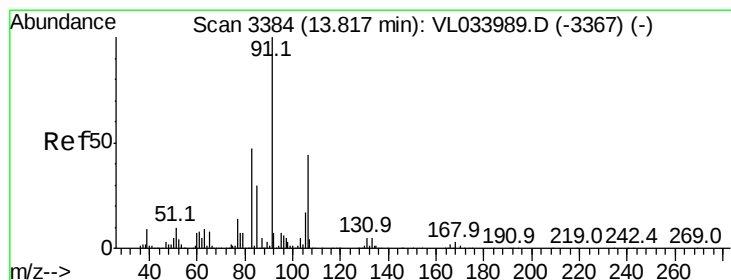
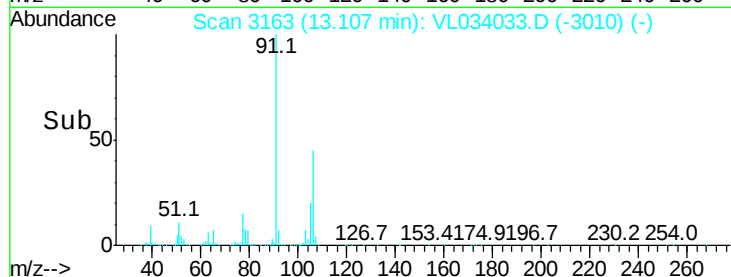
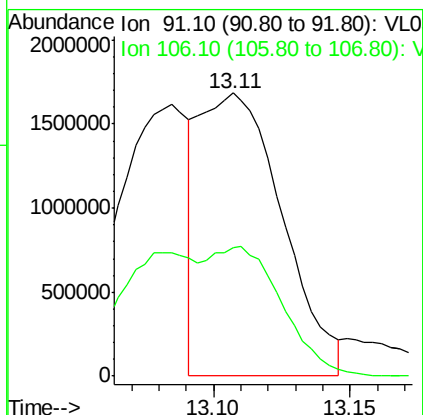
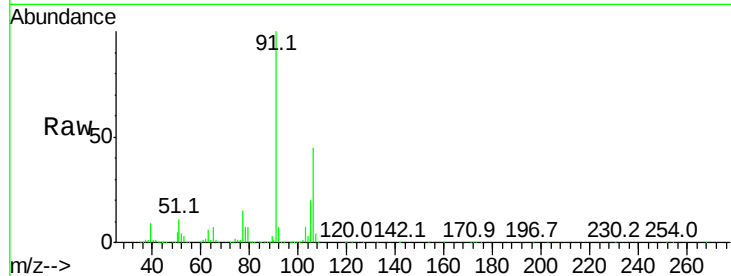




#59
m/p-Xylene
Concen: 9.458 ppbv
RT: 13.11 min Scan# 3163
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

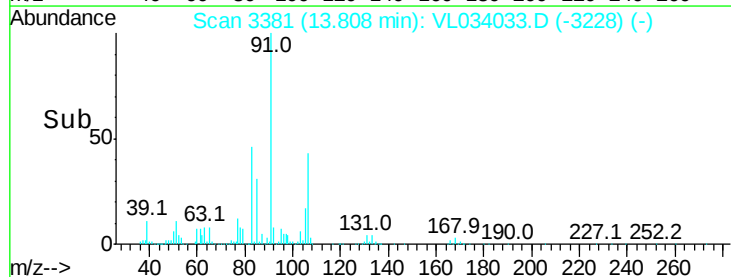
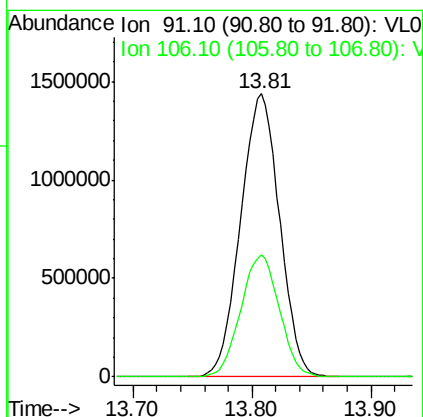
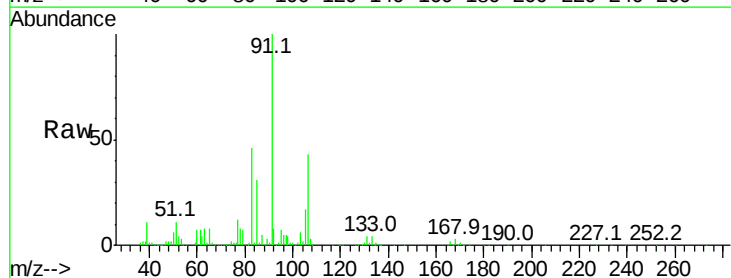
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

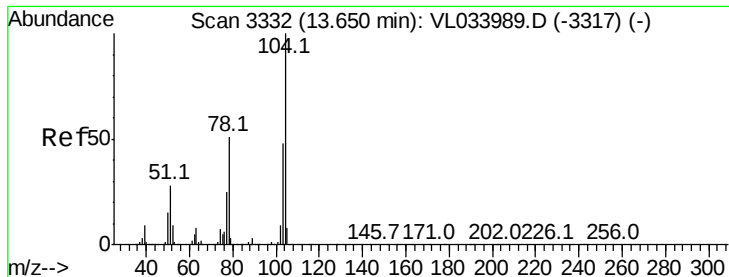
Tgt Ion: 91 Resp: 3538400
Ion Ratio Lower Upper
91 100
106 83.6 35.7 53.5#



#60
o-Xylene
Concen: 8.688 ppbv
RT: 13.81 min Scan# 3381
Delta R.T. -0.01 min
Lab File: VL034033.D
Acq: 12 Jul 2019 9:30

Tgt Ion: 91 Resp: 3251650
Ion Ratio Lower Upper
91 100
106 42.7 21.9 65.7





#61

Styrene

Concen: 9.938 ppbv

RT: 13.64 min Scan# 3329

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

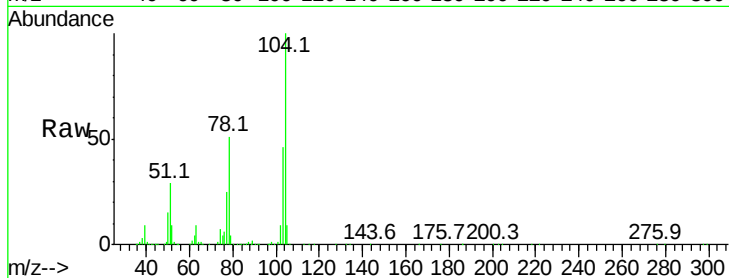
Tgt Ion:104 Resp: 2461612

Ion Ratio Lower Upper

104 100

78 53.1 43.9 65.9

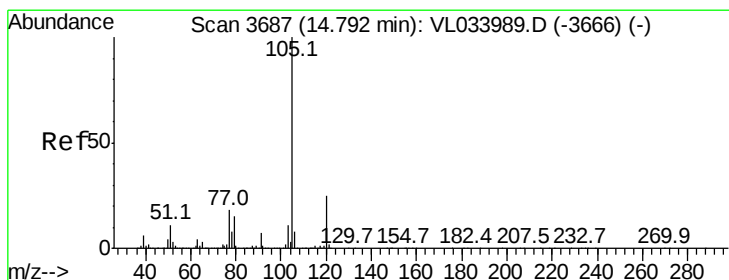
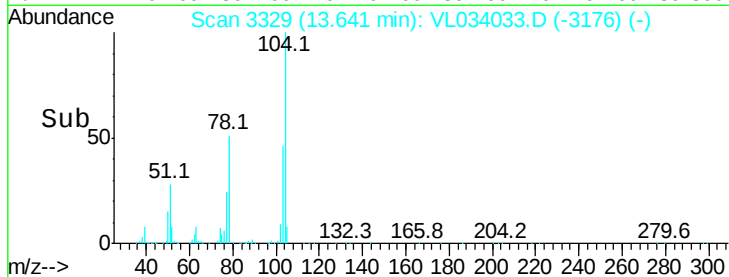
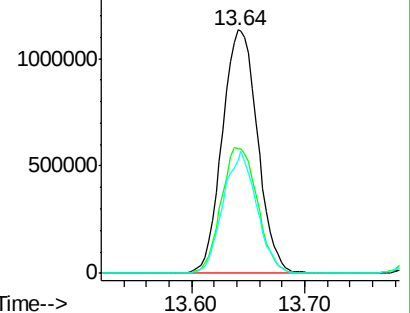
103 47.7 38.1 57.1



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: 7.523 ppbv

RT: 14.79 min Scan# 3685

Delta R.T. -0.01 min

Lab File: VL034033.D

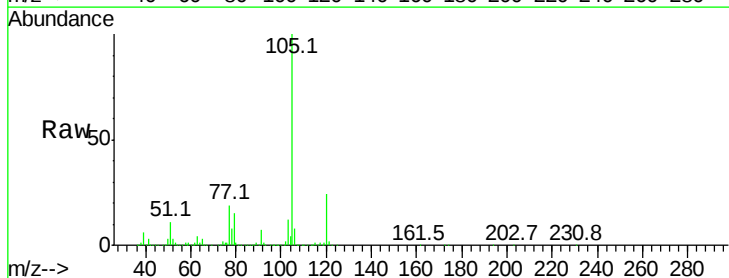
Acq: 12 Jul 2019 9:30

Tgt Ion:105 Resp: 4328543

Ion Ratio Lower Upper

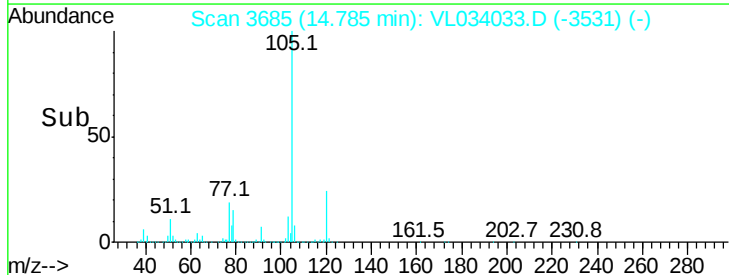
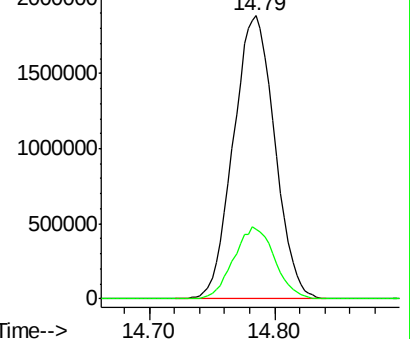
105 100

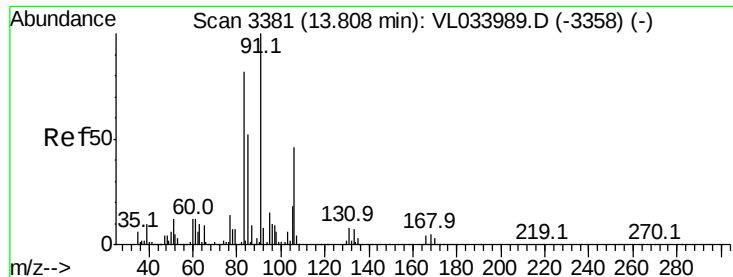
120 25.2 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.538 ppbv

RT: 13.80 min Scan# 3377

Delta R.T. -0.01 min

Lab File: VL034033.D

Acq: 12 Jul 2019 9:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

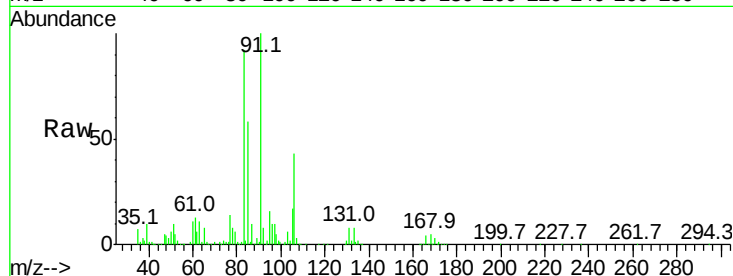
Tgt Ion: 83 Resp: 2183895

Ion	Ratio	Lower	Upper
83	100		
131	9.5	5.0	14.9
85	64.4	32.8	98.3

83 100

131 9.5 5.0 14.9

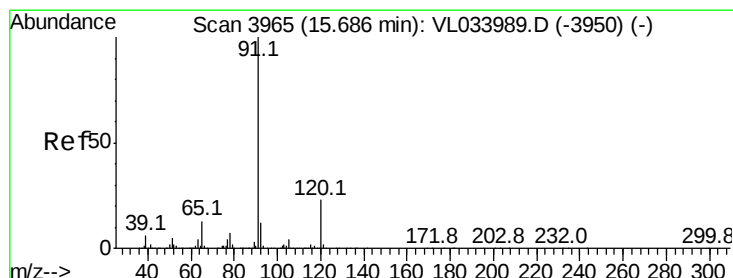
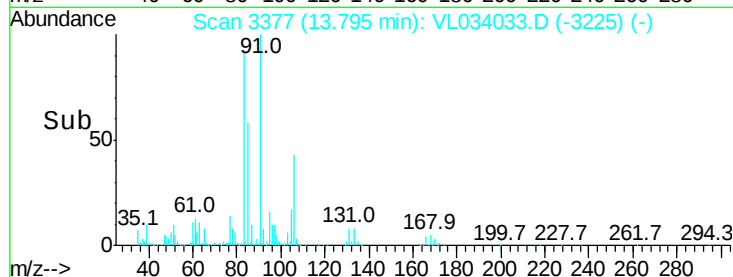
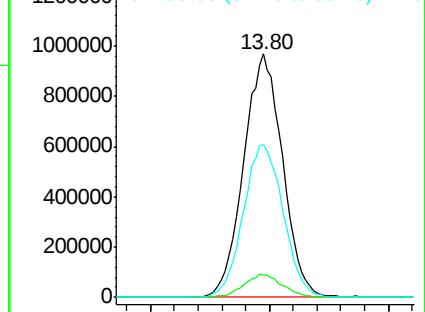
85 64.4 32.8 98.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.349 ppbv

RT: 15.68 min Scan# 3964

Delta R.T. -0.00 min

Lab File: VL034033.D

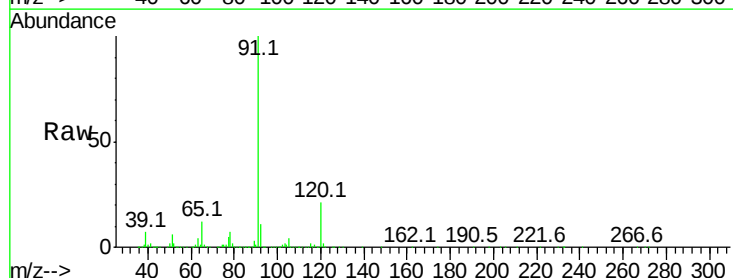
Acq: 12 Jul 2019 9:30

Tgt Ion: 120 Resp: 1096442

Ion	Ratio	Lower	Upper
120	100		
91	484.0	386.6	579.8

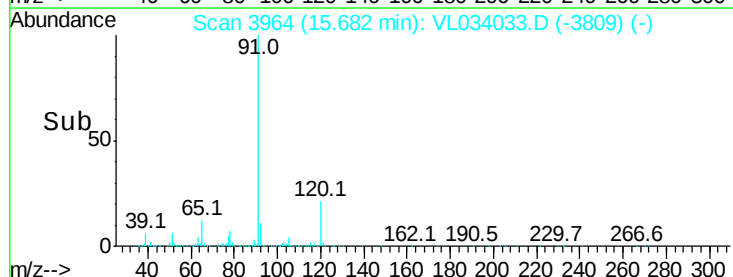
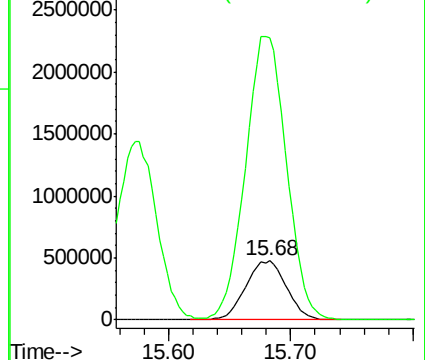
120 100

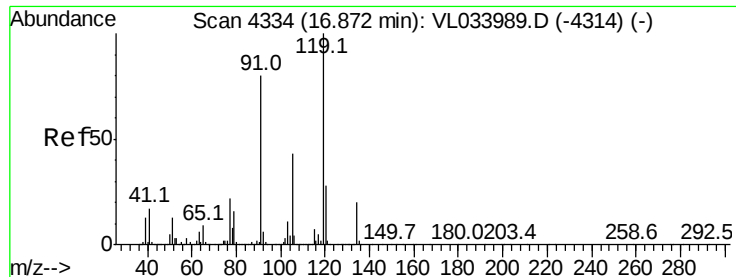
91 484.0 386.6 579.8



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

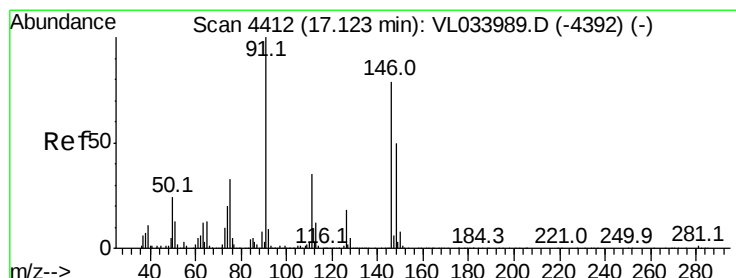
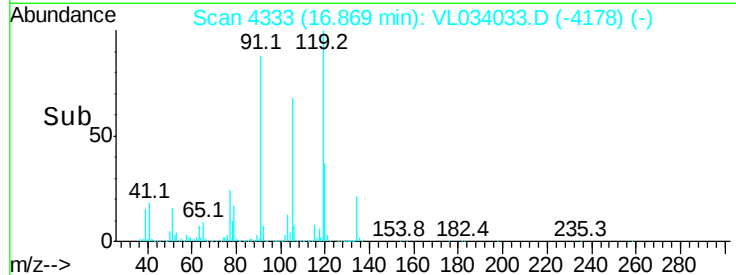
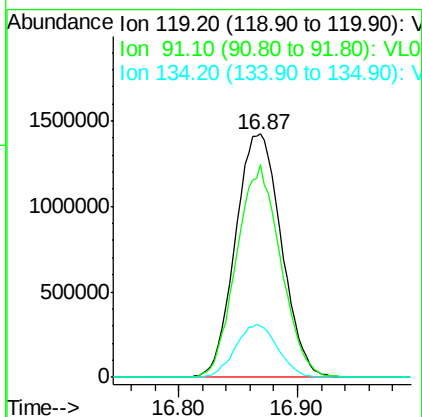
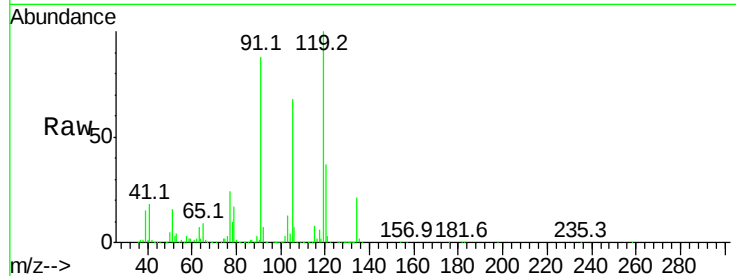




#65
 tert-Butylbenzene
 Concen: 7.746 ppbv
 RT: 16.87 min Scan# 4333
 Delta R.T. -0.00 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

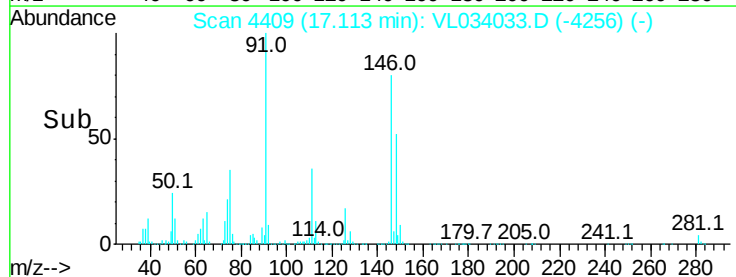
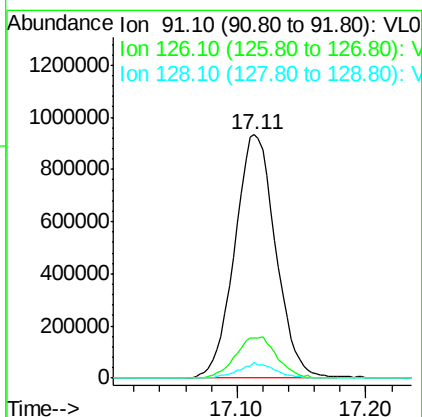
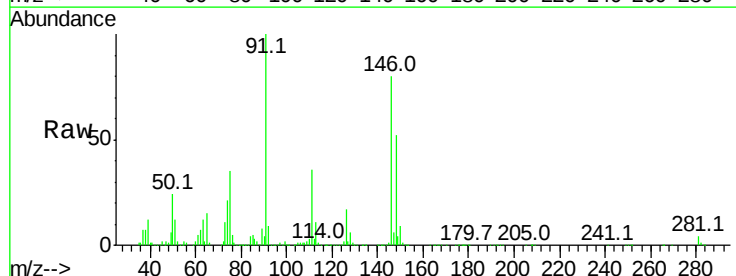
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

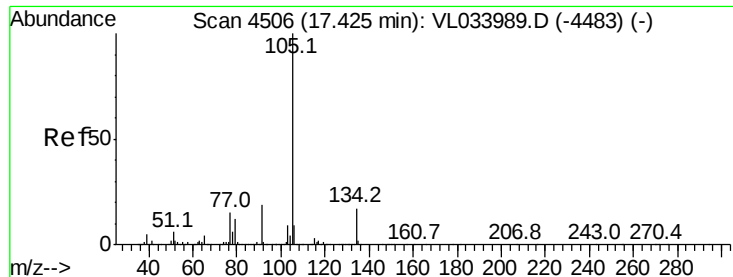
Tgt Ion: 119 Resp: 3789963
 Ion Ratio Lower Upper
 119 100
 91 84.1 67.0 100.6
 134 20.0 15.8 23.6



#66
 Benzyl Chloride
 Concen: 8.162 ppbv
 RT: 17.11 min Scan# 4409
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

Tgt Ion: 91 Resp: 2043197
 Ion Ratio Lower Upper
 91 100
 126 17.4 13.9 20.9
 128 5.7 4.6 7.0

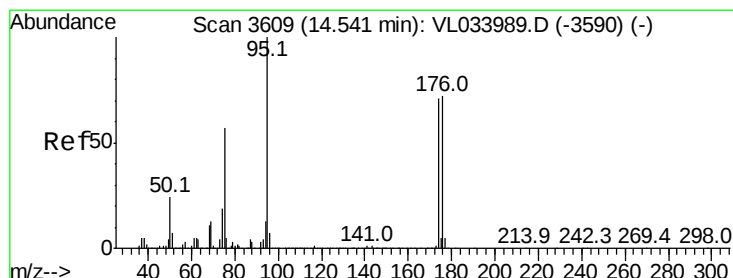
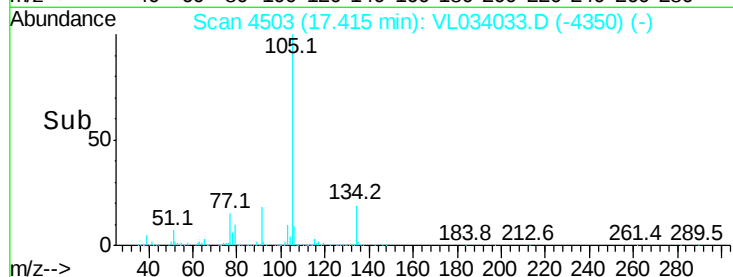
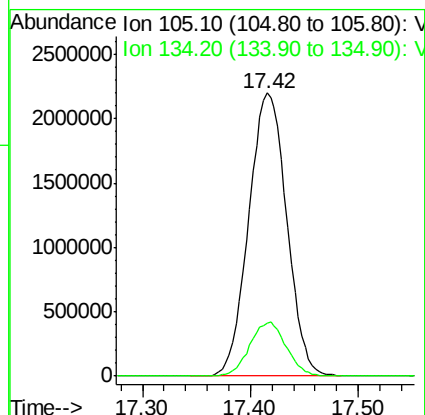
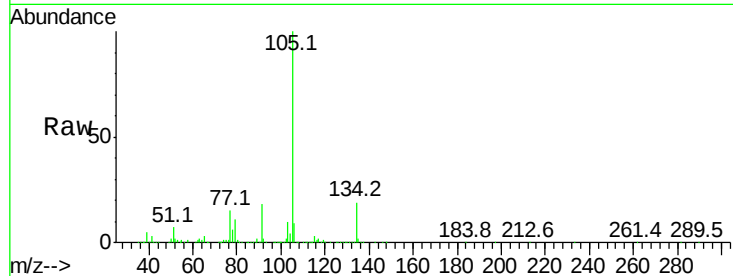




#67
 sec-Butylbenzene
 Concen: 7.829 ppbv
 RT: 17.42 min Scan# 4503
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 105 Resp: 5376748
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.7 22.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 7.285 ppbv
 RT: 14.53 min Scan# 3607
 Delta R.T. -0.01 min
 Lab File: VL034033.D
 Acq: 12 Jul 2019 9:30

Tgt Ion: 95 Resp: 2134862
 Ion Ratio Lower Upper
 95 100
 174 72.0 60.5 90.7
 175 5.3 4.0 6.0

