

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL123019\
 Data File : VL034516.D
 Acq On : 30 Dec 2019 16:18
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL123019

Quant Time: Dec 31 05:00:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1103453	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2284904	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2339197	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1863923	9.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	1269840	7.297	ppbv	98
3) Chlorodifluoromethane	2.95	51	1182696	8.996	ppbv	99
4) Chloromethane	3.11	50	721797	9.243	ppbv	97
5) Vinyl Chloride	3.22	62	669610	8.756	ppbv	99
6) Bromomethane	3.45	94	363935	9.561	ppbv	95
7) Chloroethane	3.53	64	253792	9.524	ppbv	97
8) Dichlorotetrafluoroethane	3.16	85	1529040	8.761	ppbv	99
9) Propene	2.98	41	540141	10.656	ppbv	100
10) Heptane	8.15	43	1346847	10.289	ppbv	100
11) Trichlorofluoromethane	3.93	101	1779299	8.836	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1179946	9.212	ppbv	100
13) Ethanol	3.58	45	127560	9.070	ppbv	99
14) Bromoethene	3.72	108	505109	9.750	ppbv	99
15) Acetone	3.83	43	1266648	7.865	ppbv	98
16) 1,3-Butadiene	3.30	39	616851	9.959	ppbv	99
17) tert-Butyl alcohol	4.28	59	1301361	10.092	ppbv	100
18) 1,1-Dichloroethene	4.27	96	535858	9.604	ppbv	94
19) Isopropyl Alcohol	3.95	45	1032103	9.900	ppbv	99
20) Methylene Chloride	4.33	84	473705	7.476	ppbv	94
21) Allyl Chloride	4.40	41	891629	9.633	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	543950	9.585	ppbv	95
23) Vinyl Acetate	5.07	43	1909460	10.270	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1396095	9.347	ppbv	99
25) Ethyl Acetate	5.68	43	2427902	9.654	ppbv	100
26) Hexane	5.69	57	1047711	9.887	ppbv	98
27) Carbon Disulfide	4.54	76	1373080	10.251	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1876172	10.600	ppbv	100
29) Chloroform	5.76	83	1711317	9.333	ppbv	99
30) Cyclohexane	7.15	84	845812	10.738	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1149144	10.641	ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	1757193	9.232	ppbv	99
34) 2-Butanone	5.24	43	1614180	9.886	ppbv	99
35) Carbon Tetrachloride	7.03	117	1829981	8.831	ppbv	98
36) Benzene	6.91	78	2015474	10.119	ppbv	98
37) 1,2-Dichloroethane	6.32	62	1449092	8.959	ppbv	99
38) Trichloroethene	7.86	130	808331	10.047	ppbv	98
39) 1,2-Dichloropropane	7.64	63	818621	9.995	ppbv	99
40) 1,4-Dioxane	7.85	88	341391	10.299	ppbv	# 93
41) Tetrahydrofuran	6.05	42	924019	11.032	ppbv	99
42) Bromodichloromethane	7.82	83	1900994	9.552	ppbv	95
43) Methyl Methacrylate	8.04	69	855382	10.528	ppbv	100

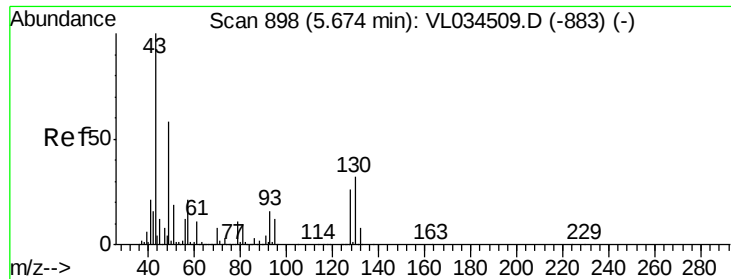
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3515721	9.542	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1192192	11.391	ppbv	95
46) cis-1,3-Dichloropropene	8.73	75	1320151	11.035	ppbv	97
47) 1,1,2-Trichloroethane	9.51	97	853735	9.456	ppbv	99
48) Dibromochloromethane	10.35	129	1579656	10.093	ppbv	99
49) Bromoform	13.10	173	1393086	9.832	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	2335998	9.855	ppbv	99
51) 2-Hexanone	10.16	43	1940793	10.143	ppbv	99
52) Tetrachloroethene	11.26	164	756673	9.735	ppbv	96
53) Toluene	9.84	91	2313552	10.573	ppbv	100
54) 1,2-Dibromoethane	10.65	107	1295450	9.860	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.17	131	1025802	9.084	ppbv #	62
57) Chlorobenzene	12.19	112	1760133	9.120	ppbv	99
58) Ethyl Benzene	12.76	91	3136509	9.942	ppbv	100
59) m/p-Xylene	13.04	91	2544320	9.223	ppbv #	28
60) o-Xylene	13.74	91	2594566	9.373	ppbv	99
61) Styrene	13.58	104	1937854	10.239	ppbv	99
62) Isopropylbenzene	14.72	105	3388801	9.359	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1802758	8.118	ppbv	100
64) n-propylbenzene	15.62	120	879881	9.516	ppbv	98
65) tert-Butylbenzene	16.80	119	2975868	9.097	ppbv	100
66) Benzyl Chloride	17.05	91	1490280	10.394	ppbv	100
67) sec-Butylbenzene	17.35	105	4132643	8.995	ppbv	99
69) p-Isopropyltoluene	17.71	119	3467424	9.306	ppbv	99
70) n-Butylbenzene	18.61	91	3635619	9.043	ppbv	99
71) 2-Chlorotoluene	15.51	91	2645818	9.409	ppbv	100
72) 4-Ethyltoluene	15.90	105	2953841	9.536	ppbv	100
73) 1,3,5-Trimethylbenzene	16.05	105	2849773	9.377	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	2918000	8.976	ppbv #	90
75) 1,3-Dichlorobenzene	17.06	146	1655135	8.500	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	1678633	8.954	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1608078	8.788	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1534191	8.832	ppbv	99
79) Naphthalene	22.28	128	2754944	11.251	ppbv	98
80) Naphthalene,2-methyl-	25.03	142	1530233	22.559	ppbv #	94
81) 1,2,4-Trichlorobenzene	22.01	180	1639732	10.284	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

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ICVVL123019

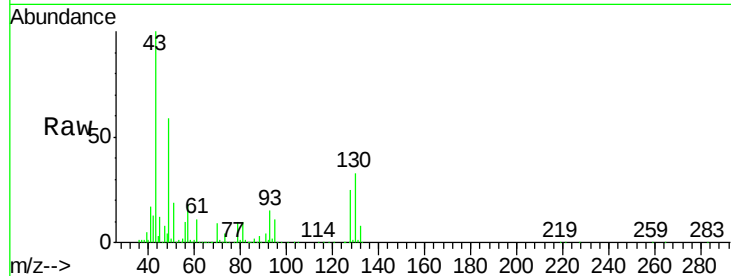
Tgt Ion: 49 Resp: 1103453

Ion Ratio Lower Upper

49 100

128 44.0 22.4 67.2

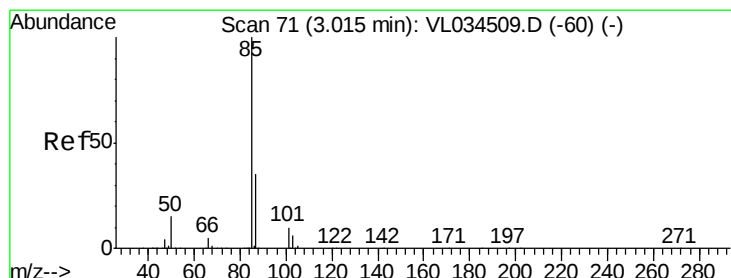
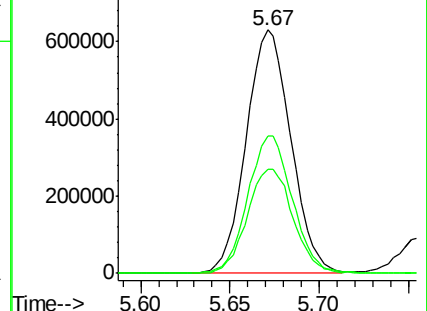
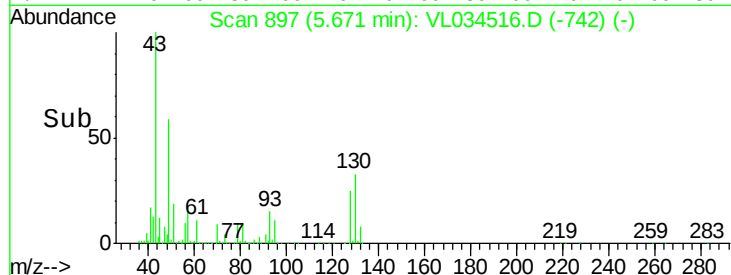
130 56.3 28.3 85.0



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: 7.297 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034516.D

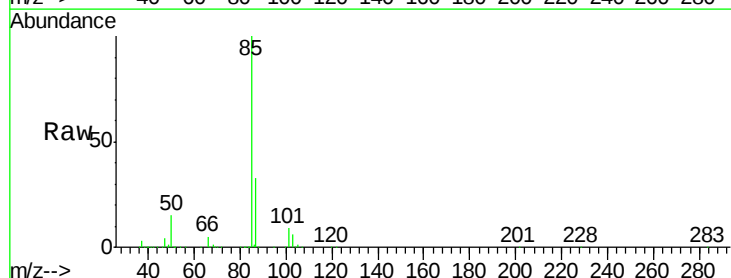
Acq: 30 Dec 2019 16:18

Tgt Ion: 85 Resp: 1269840

Ion Ratio Lower Upper

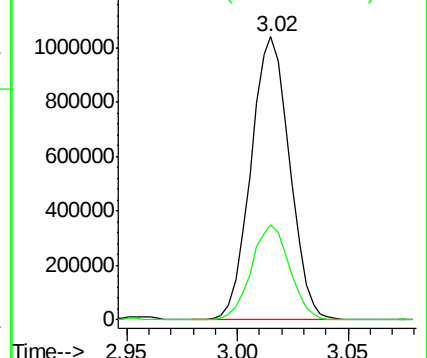
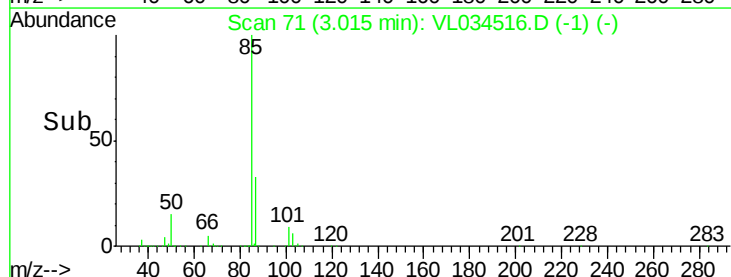
85 100

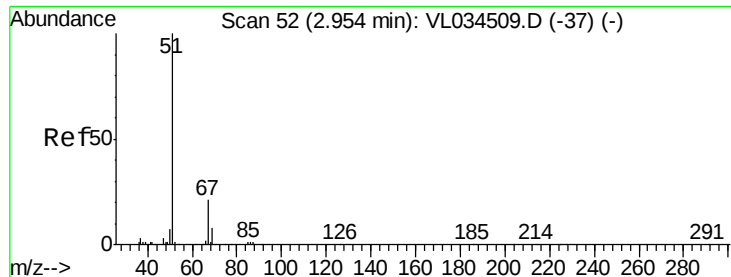
87 33.5 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.996 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

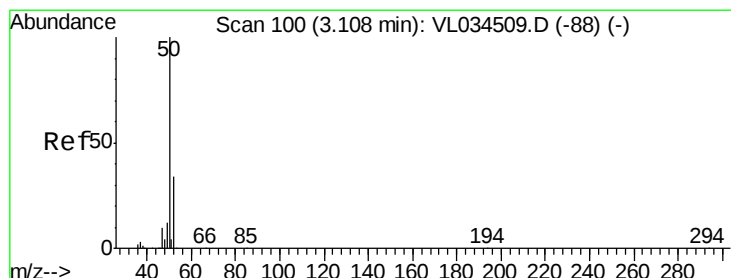
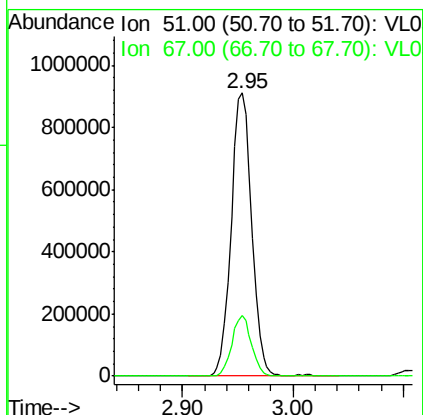
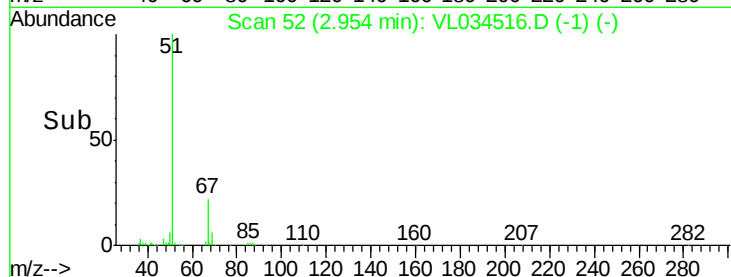
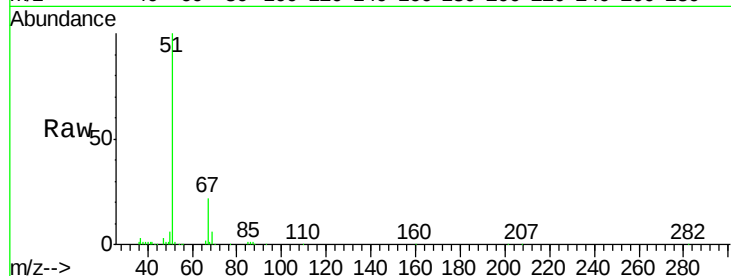
ICVVL123019

Tgt Ion: 51 Resp: 1182696

Ion Ratio Lower Upper

51 100

67 20.4 16.8 25.2



#4

Chloromethane

Concen: 9.243 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.00 min

Lab File: VL034516.D

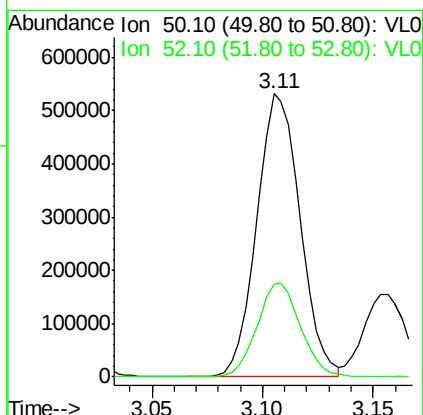
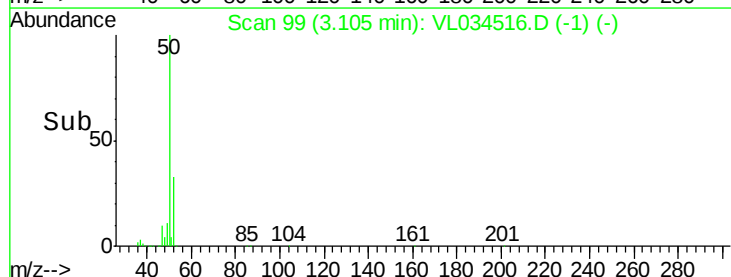
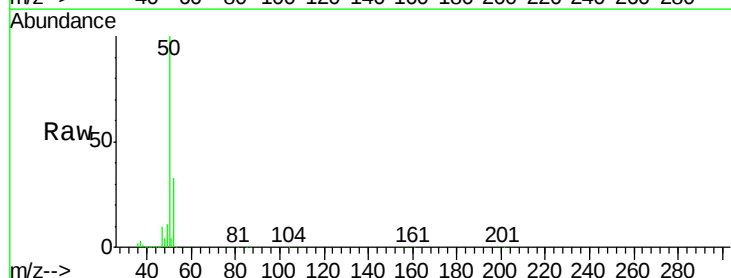
Acq: 30 Dec 2019 16:18

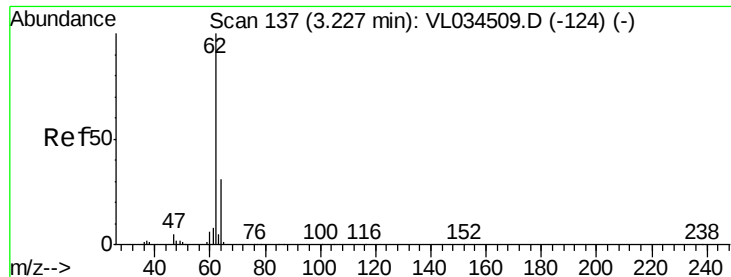
Tgt Ion: 50 Resp: 721797

Ion Ratio Lower Upper

50 100

52 32.9 27.6 41.4





#5

Vinyl Chloride

Concen: 8.756 ppbv

RT: 3.22 min Scan# 136

Delta R.T. -0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

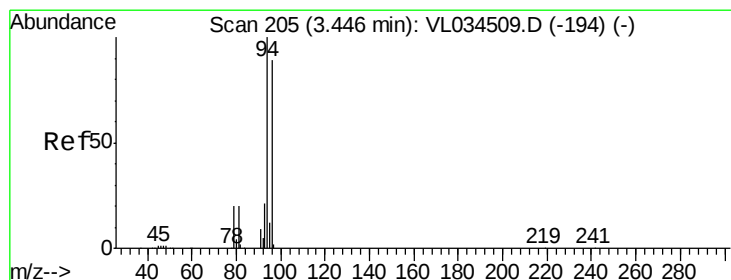
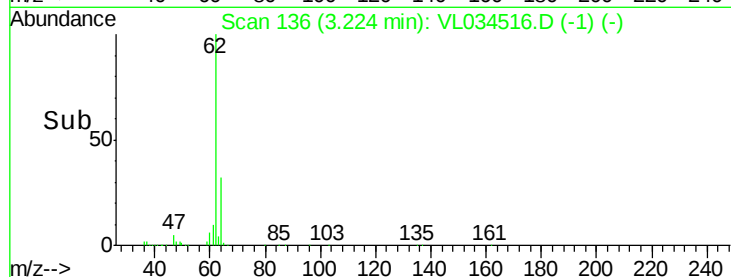
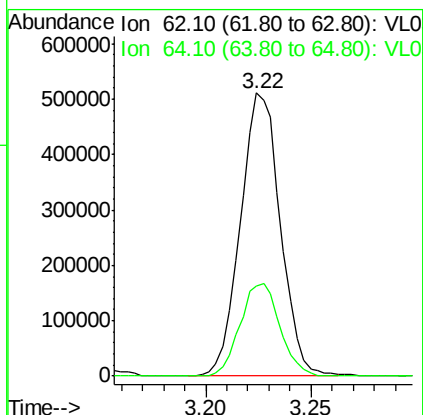
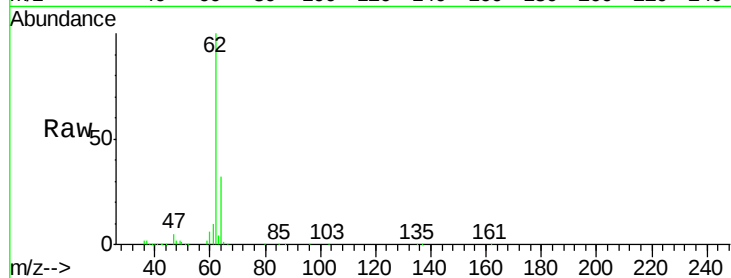
ICVVL123019

Tgt Ion: 62 Resp: 669610

Ion Ratio Lower Upper

62 100

64 31.9 24.9 37.3



#6

Bromomethane

Concen: 9.561 ppbv

RT: 3.45 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL034516.D

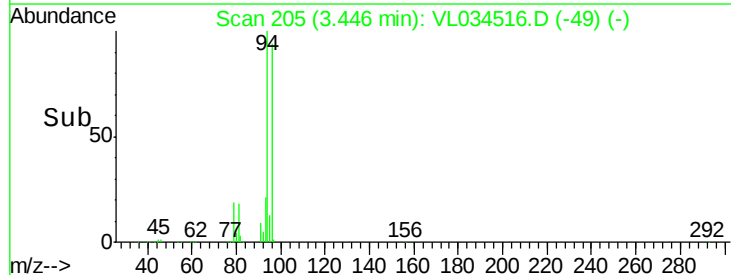
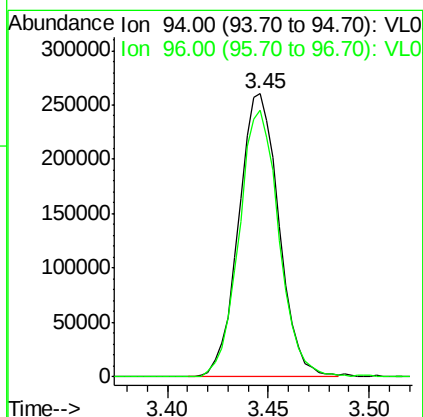
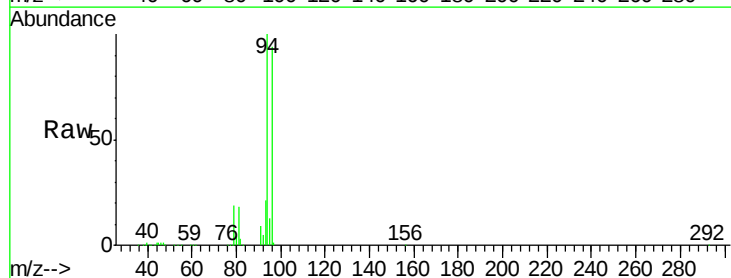
Acq: 30 Dec 2019 16:18

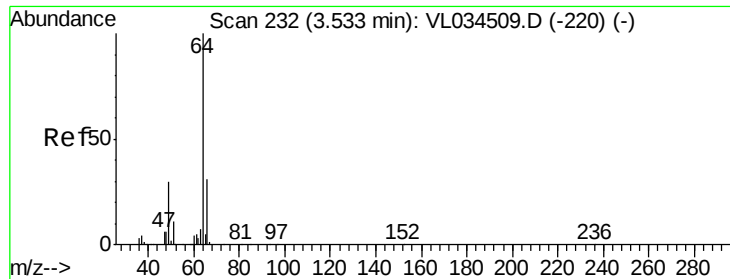
Tgt Ion: 94 Resp: 363935

Ion Ratio Lower Upper

94 100

96 94.0 71.2 106.8





#7

Chloroethane

Concen: 9.524 ppbv

RT: 3.53 min Scan# 231

Delta R.T. -0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

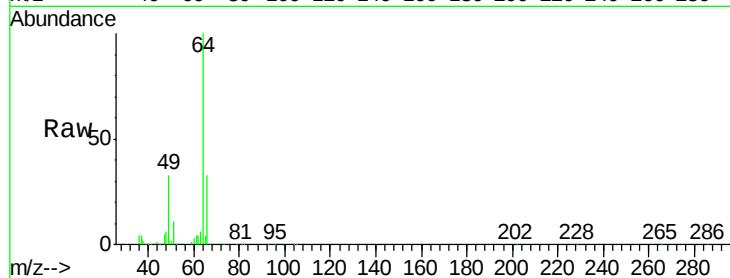
ICVVL123019

Tgt Ion: 64 Resp: 253792

Ion Ratio Lower Upper

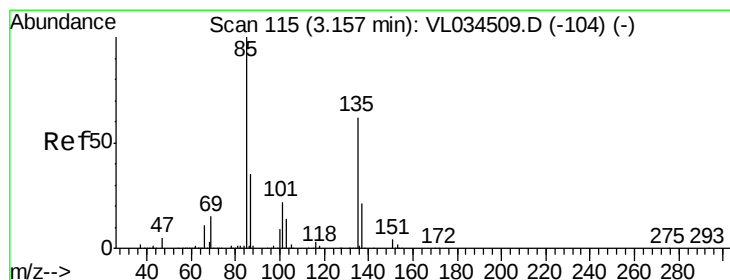
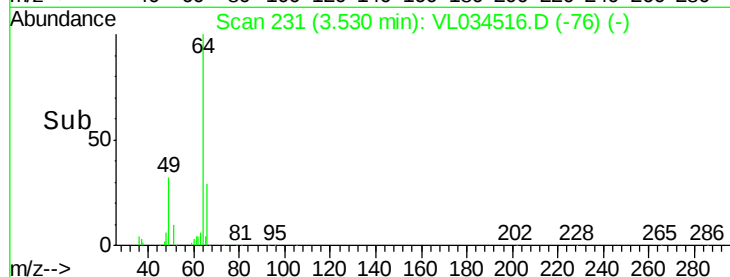
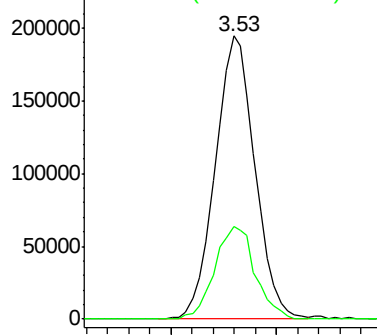
64 100

66 32.6 25.0 37.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.761 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.00 min

Lab File: VL034516.D

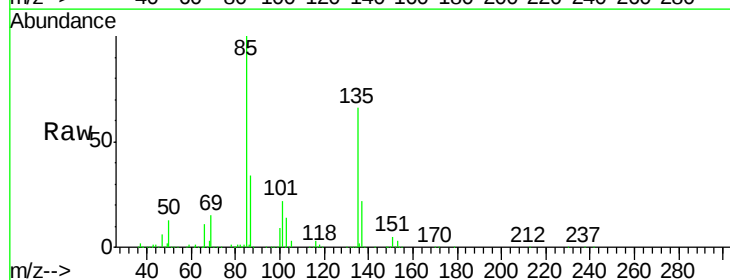
Acq: 30 Dec 2019 16:18

Tgt Ion: 85 Resp: 1529040

Ion Ratio Lower Upper

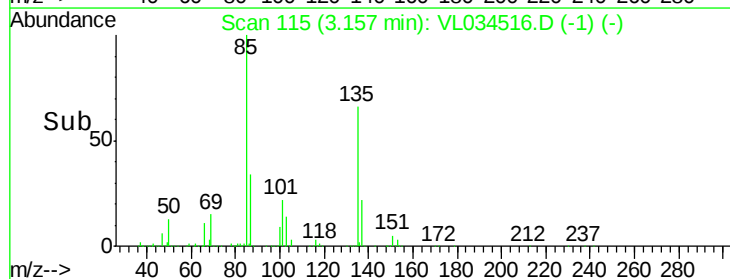
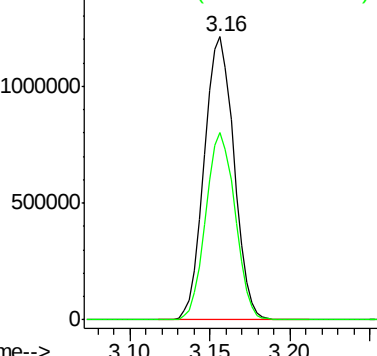
85 100

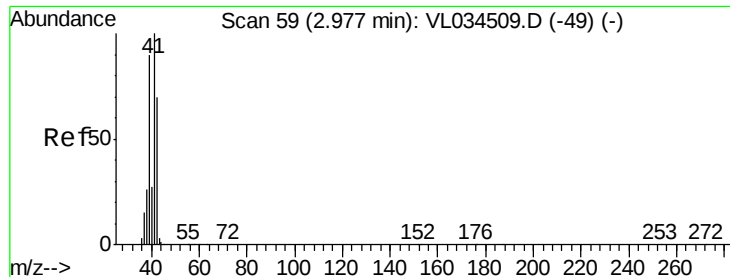
135 65.5 51.8 77.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.656 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.00 min

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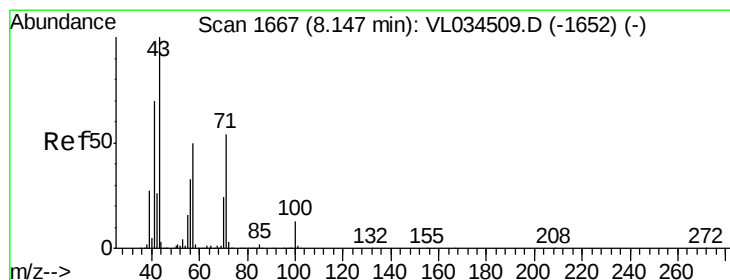
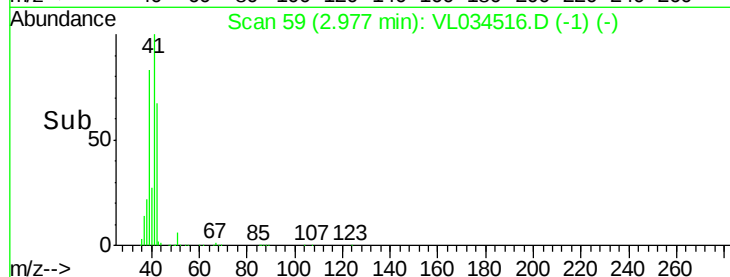
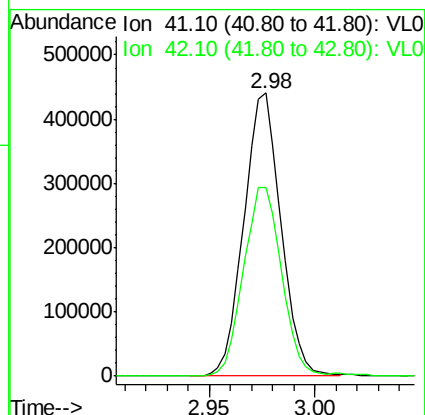
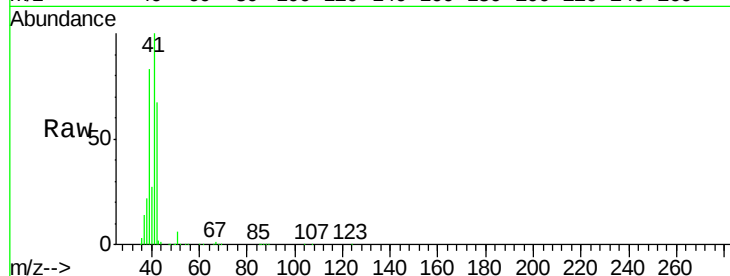
ICVVL123019

Tgt Ion: 41 Resp: 540141

Ion Ratio Lower Upper

41 100

42 69.4 55.8 83.6



#10

Heptane

Concen: 10.289 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VL034516.D

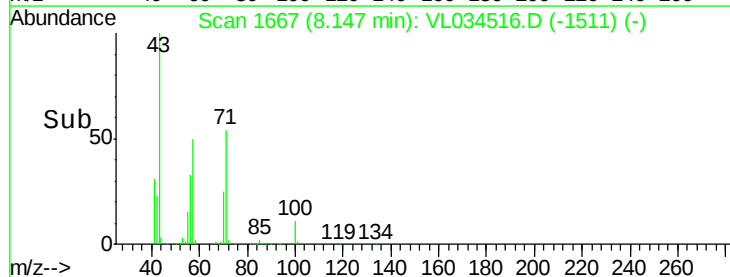
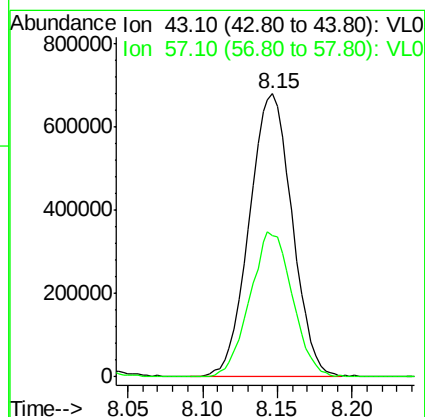
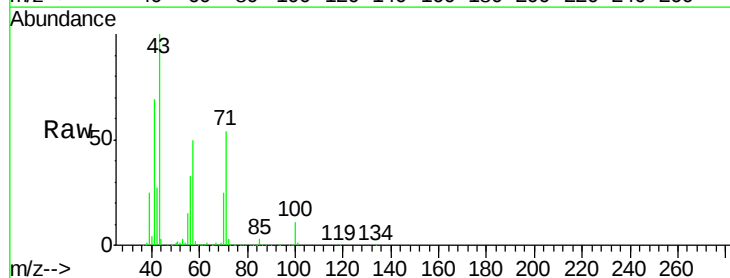
Acq: 30 Dec 2019 16:18

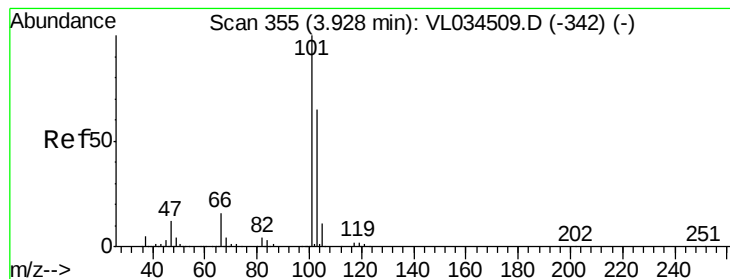
Tgt Ion: 43 Resp: 1346847

Ion Ratio Lower Upper

43 100

57 51.4 41.0 61.6





#11

Trichlorofluoromethane

Concen: 8.836 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.00 min

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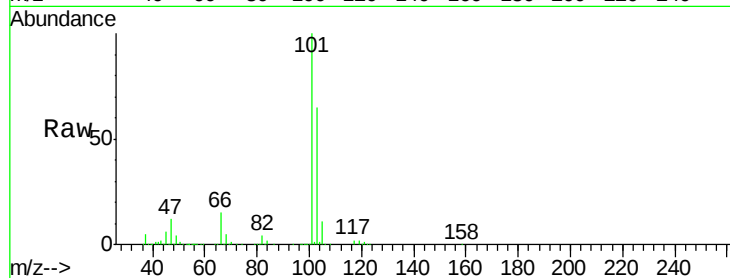
ICVVL123019

Tgt Ion:101 Resp: 1779299

Ion Ratio Lower Upper

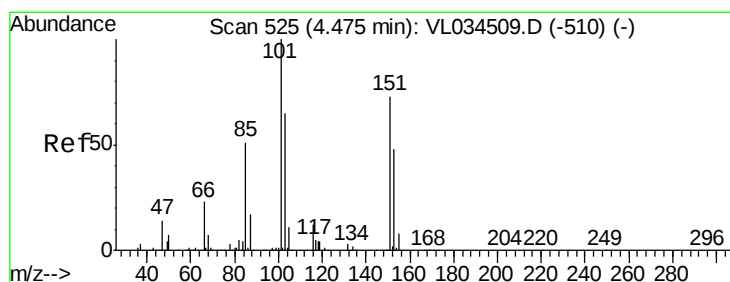
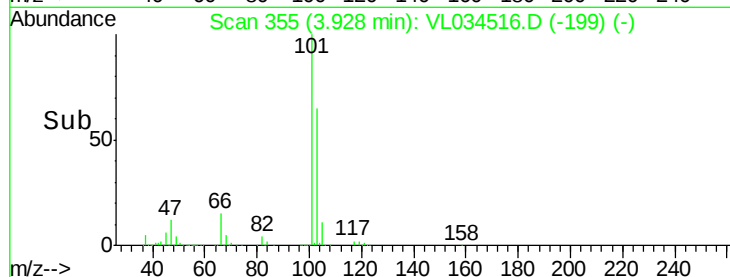
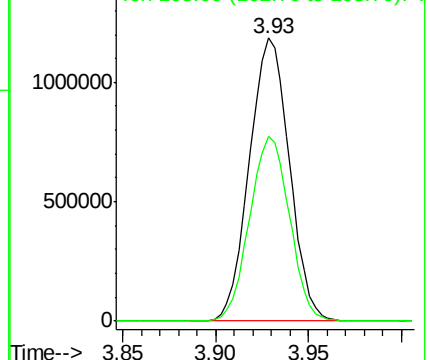
101 100

103 65.4 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.212 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL034516.D

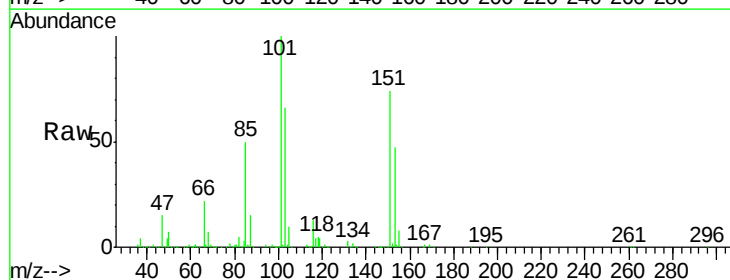
Acq: 30 Dec 2019 16:18

Tgt Ion:101 Resp: 1179946

Ion Ratio Lower Upper

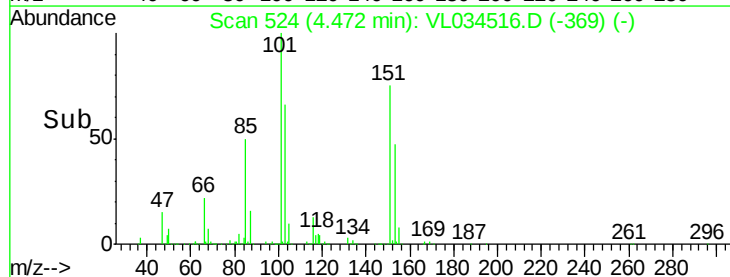
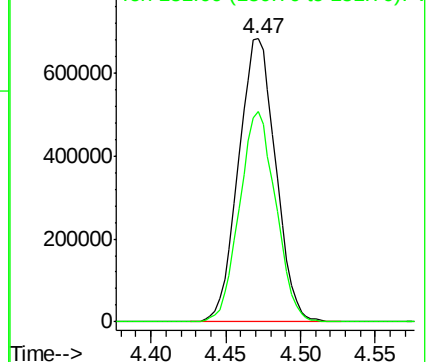
101 100

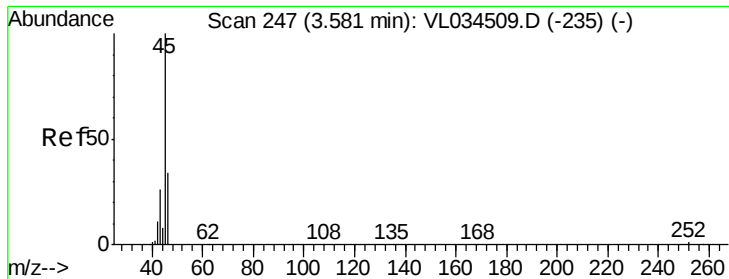
151 72.6 57.8 86.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

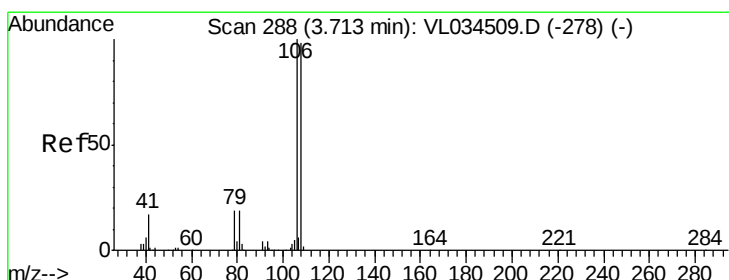
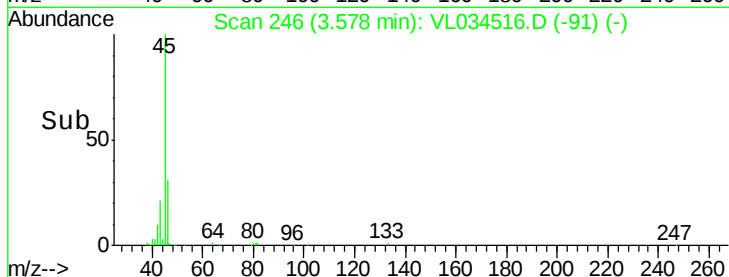
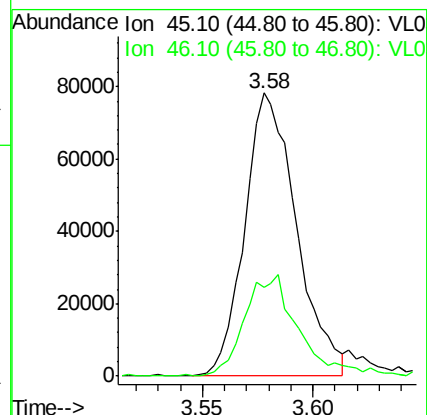
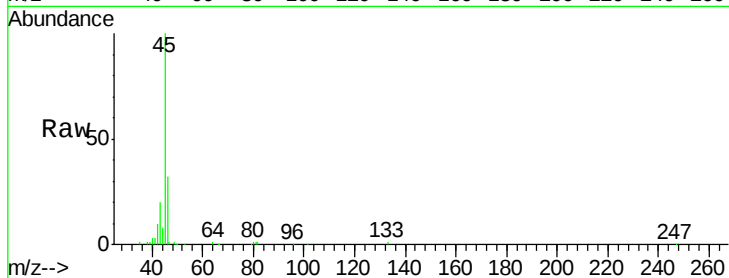




#13
Ethanol
Concen: 9.070 ppbv
RT: 3.58 min Scan# 246
Delta R.T. -0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

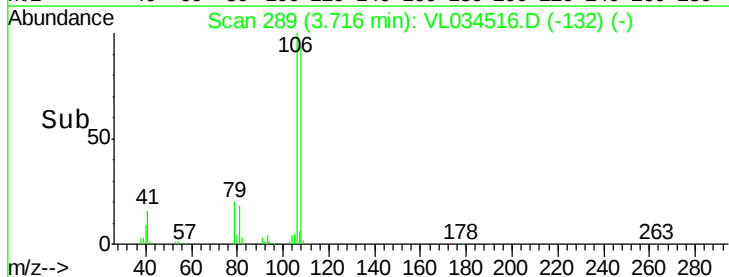
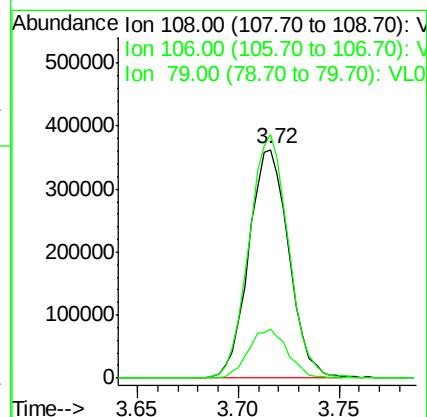
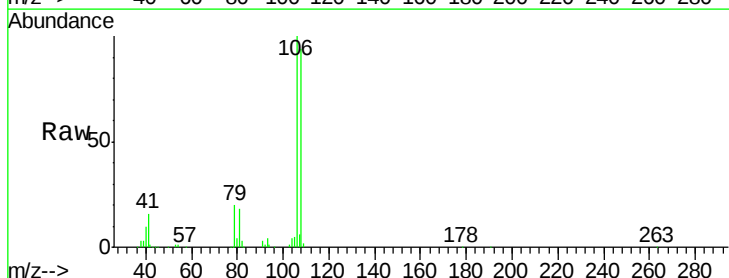
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

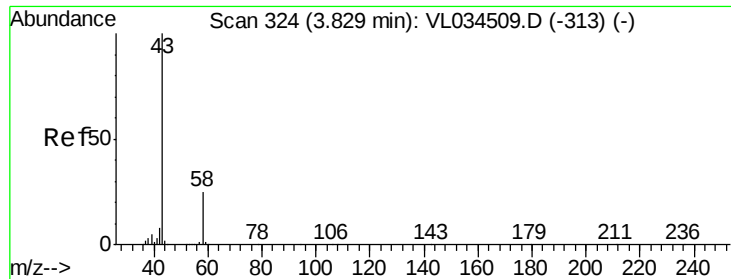
Tgt Ion: 45 Resp: 127560
Ion Ratio Lower Upper
45 100
46 38.1 14.9 59.7



#14
Bromoethene
Concen: 9.750 ppbv
RT: 3.72 min Scan# 289
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

Tgt Ion: 108 Resp: 505109
Ion Ratio Lower Upper
108 100
106 105.5 85.2 127.8
79 21.5 17.4 26.2





#15

Acetone

Concen: 7.865 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

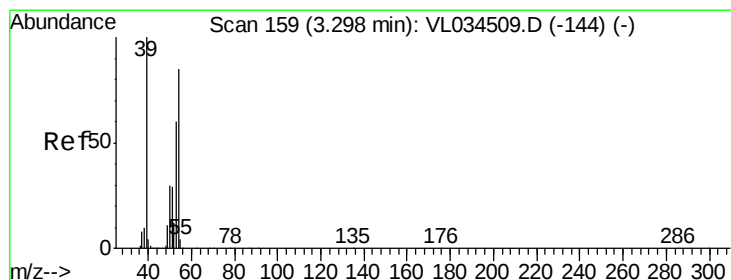
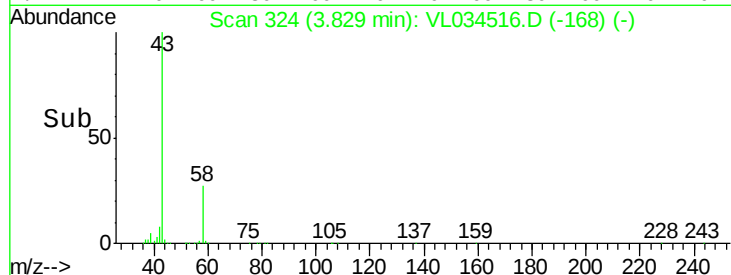
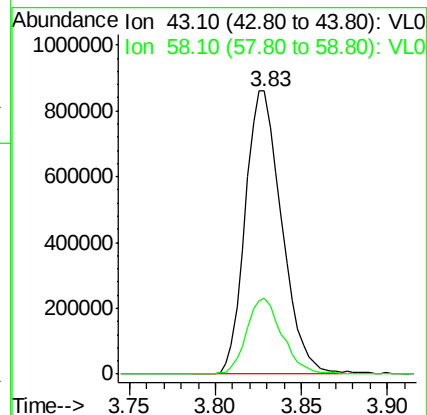
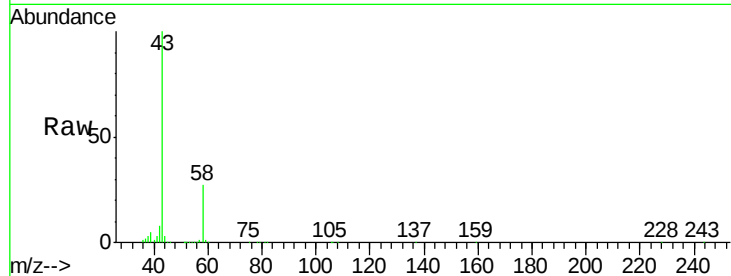
ICVVL123019

Tgt Ion: 43 Resp: 1266648

Ion Ratio Lower Upper

43 100

58 26.4 20.4 30.6



#16

1,3-Butadiene

Concen: 9.959 ppbv

RT: 3.30 min Scan# 159

Delta R.T. 0.00 min

Lab File: VL034516.D

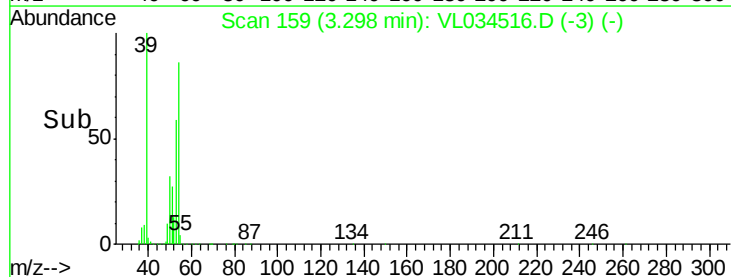
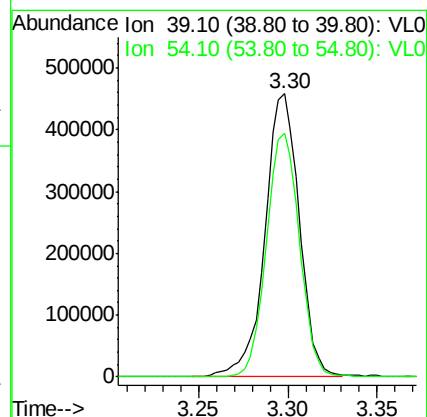
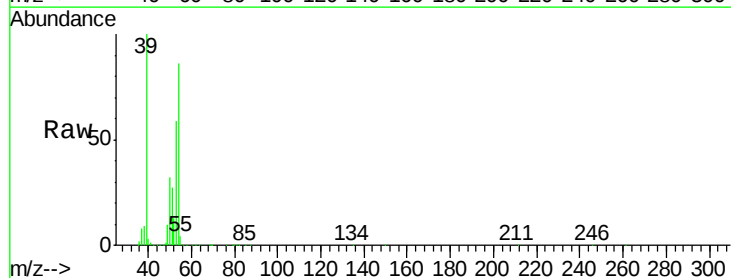
Acq: 30 Dec 2019 16:18

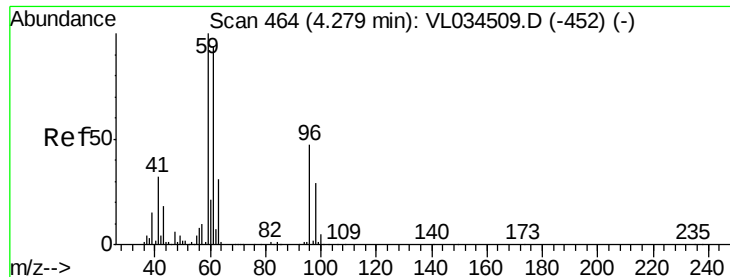
Tgt Ion: 39 Resp: 616851

Ion Ratio Lower Upper

39 100

54 83.3 66.2 99.2





#17

tert-Butyl alcohol
Concen: 10.092 ppbv
RT: 4.28 min Scan# 463
Delta R.T. -0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

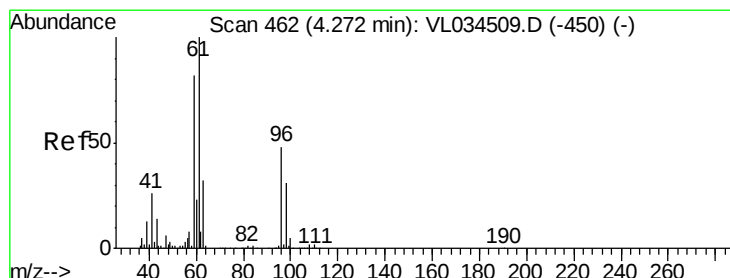
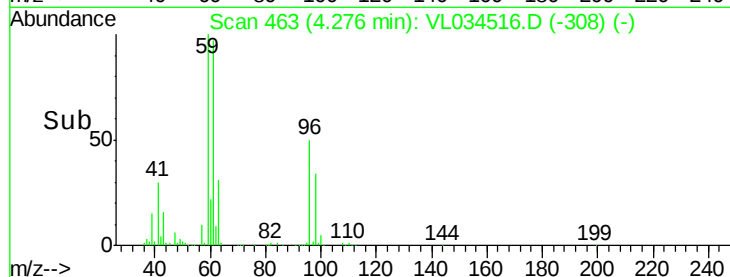
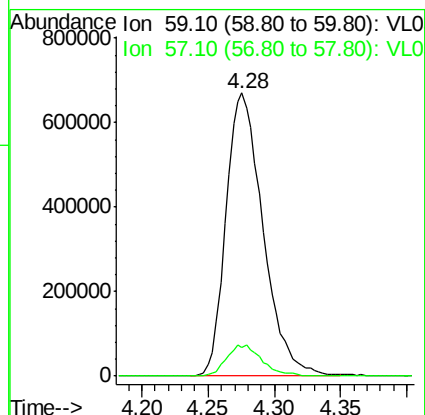
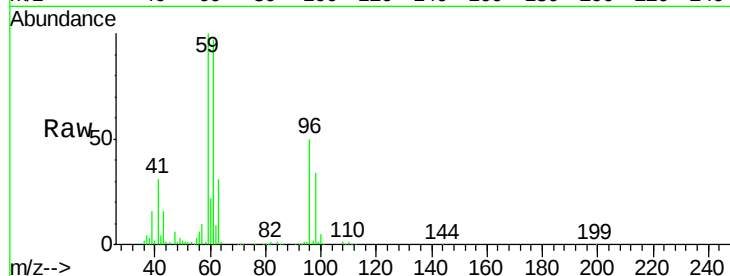
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

Tgt Ion: 59 Resp: 1301361

Ion Ratio Lower Upper

59 100

57 10.6 8.6 12.8



#18

1,1-Dichloroethene
Concen: 9.604 ppbv
RT: 4.27 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

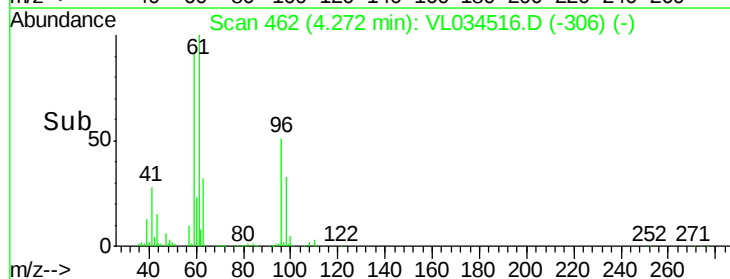
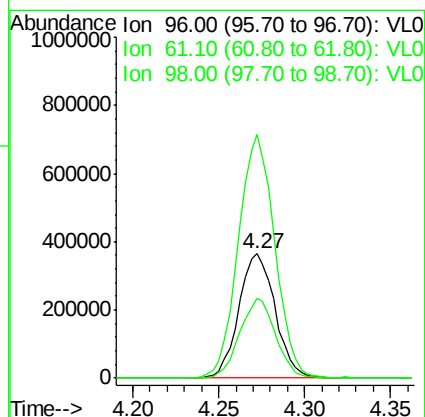
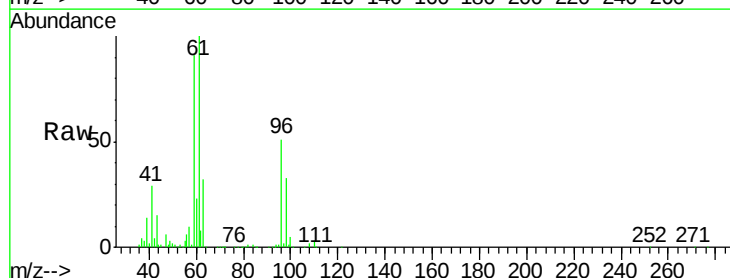
Tgt Ion: 96 Resp: 535858

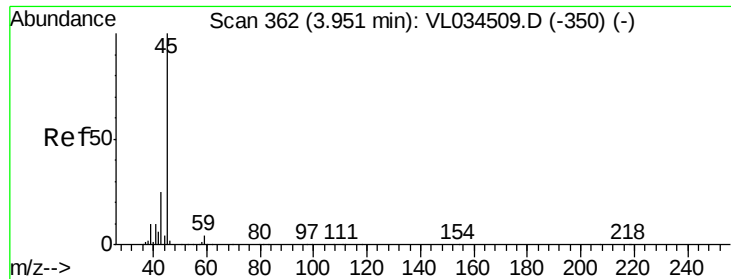
Ion Ratio Lower Upper

96 100

61 196.0 165.9 248.9

98 64.5 51.9 77.9

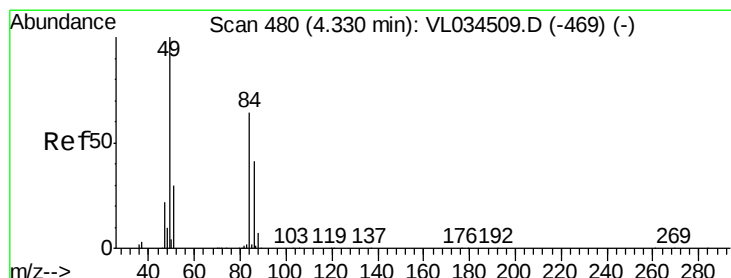
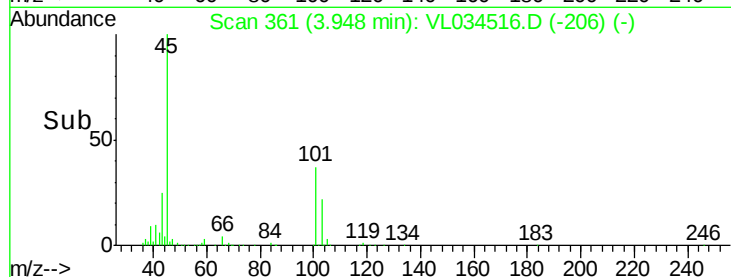
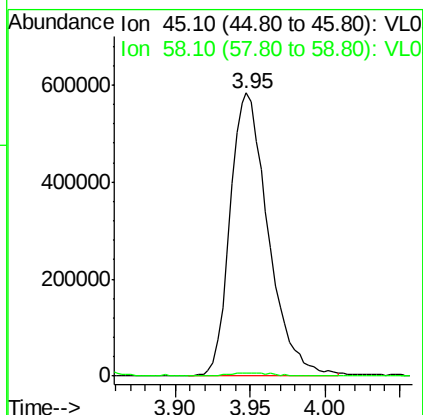
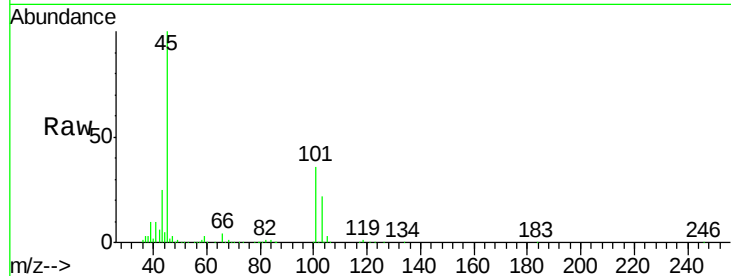




#19
Isopropyl Alcohol
Concen: 9.900 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

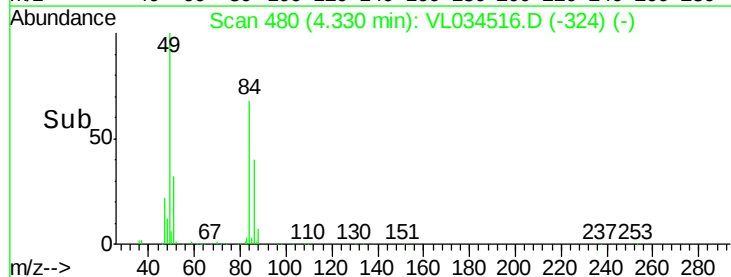
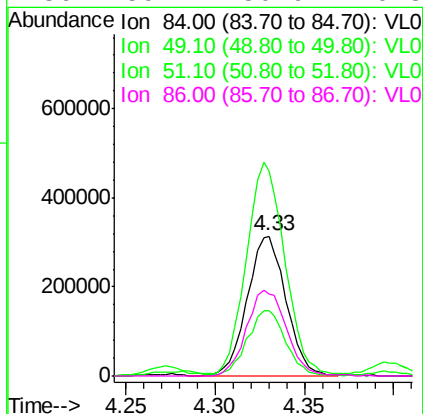
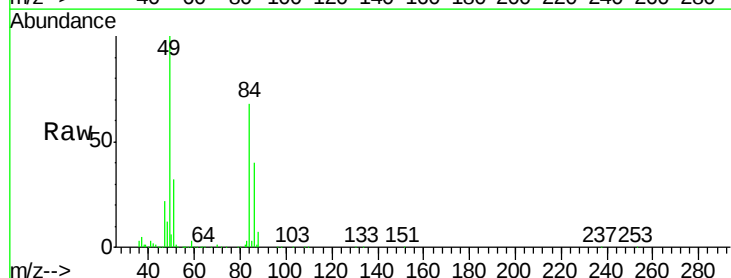
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

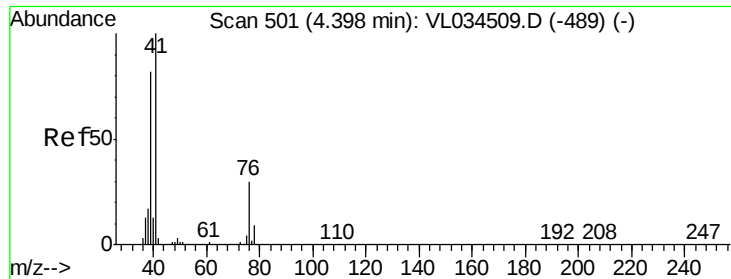
Tgt Ion: 45 Resp: 1032103
Ion Ratio Lower Upper
45 100
58 1.5 1.4 2.0



#20
Methylene Chloride
Concen: 7.476 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

Tgt Ion: 84 Resp: 473705
Ion Ratio Lower Upper
84 100
49 146.0 124.4 186.6
51 46.5 37.0 55.6
86 59.1 50.9 76.3

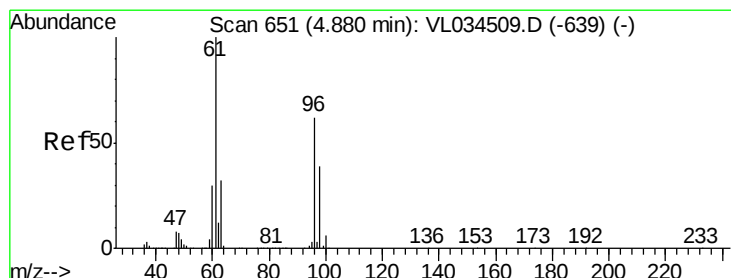
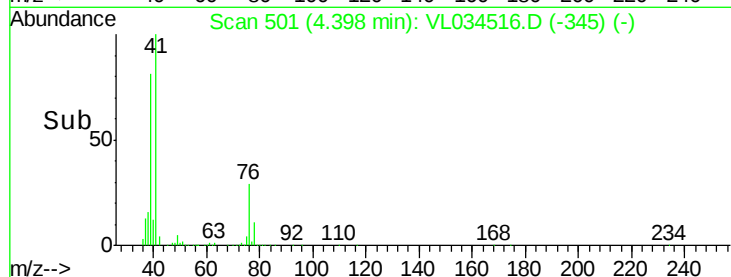
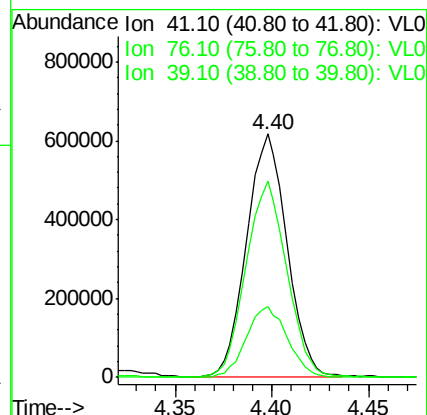
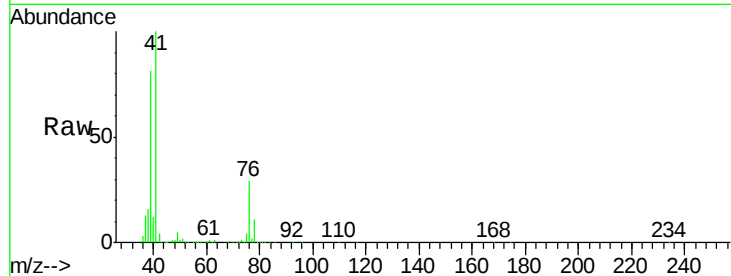




#21
 Allyl Chloride
 Concen: 9.633 ppbv
 RT: 4.40 min Scan# 501
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

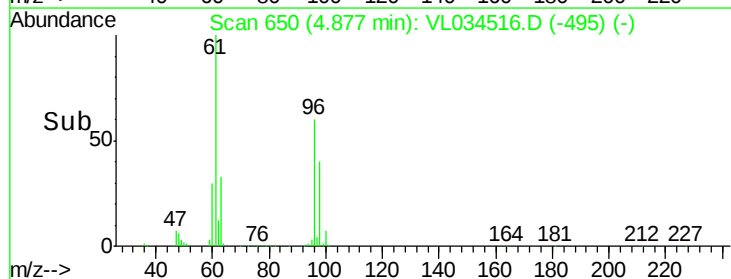
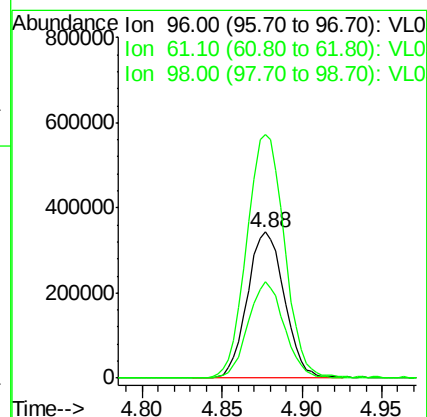
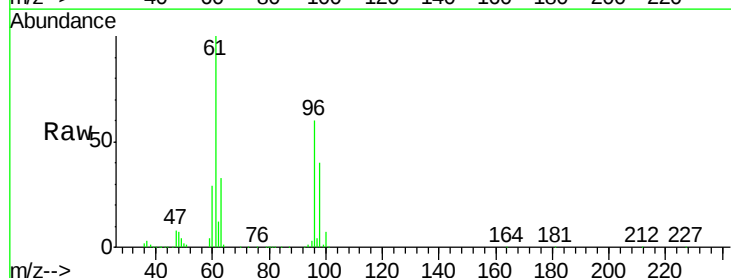
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL123019

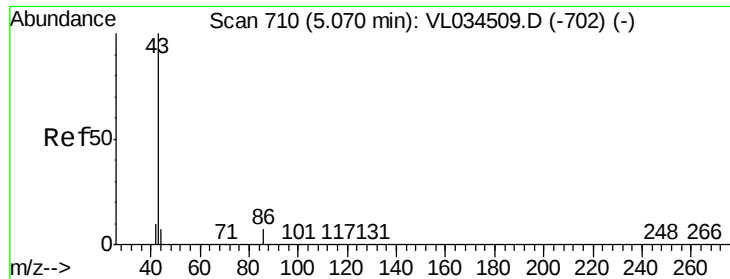
Tgt Ion: 41 Resp: 891629
 Ion Ratio Lower Upper
 41 100
 76 29.9 24.2 36.4
 39 82.9 65.8 98.6



#22
 trans-1,2-Dichloroethene
 Concen: 9.585 ppbv
 RT: 4.88 min Scan# 650
 Delta R.T. -0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

Tgt Ion: 96 Resp: 543950
 Ion Ratio Lower Upper
 96 100
 61 167.0 128.4 192.6
 98 66.5 50.6 75.8





#23

Vinyl Acetate

Concen: 10.270 ppbv

RT: 5.07 min Scan# 710

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

Tgt Ion: 43 Resp: 1909460

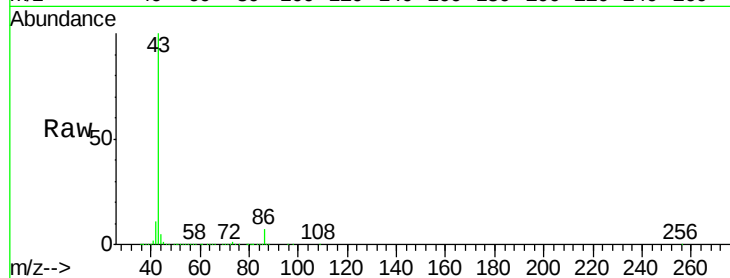
Ion Ratio Lower Upper

43 100

86 6.6 5.4 8.2

42 10.6 8.9 13.3

44 5.3 5.0 7.4

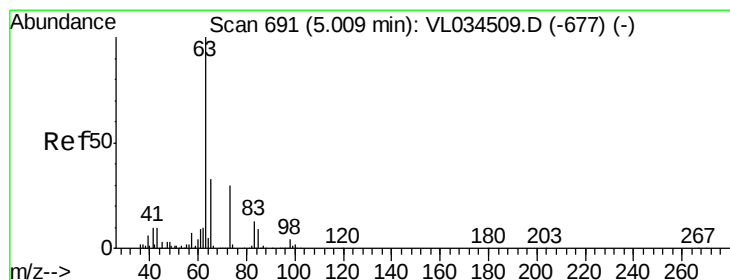
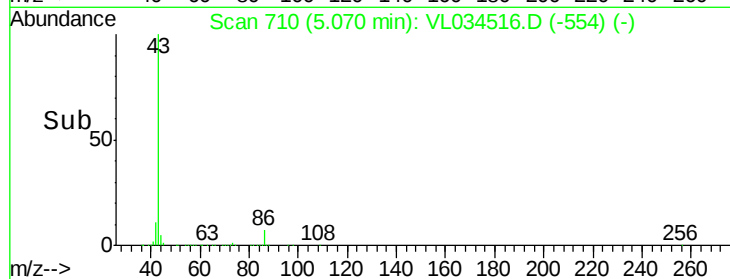
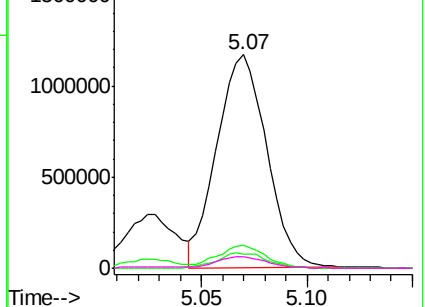


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.347 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

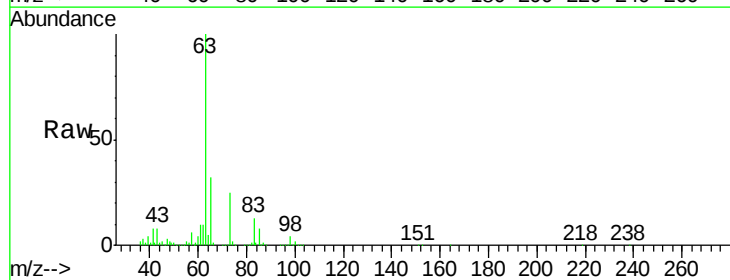
Tgt Ion: 63 Resp: 1396095

Ion Ratio Lower Upper

63 100

98 3.9 2.1 6.3

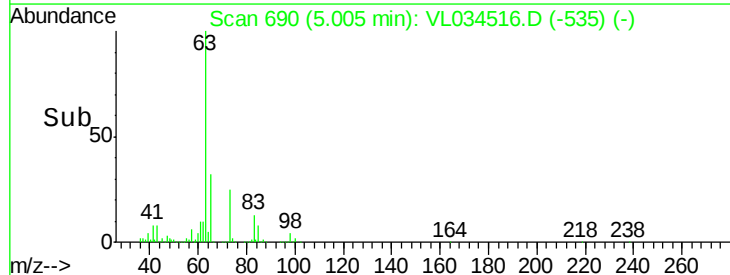
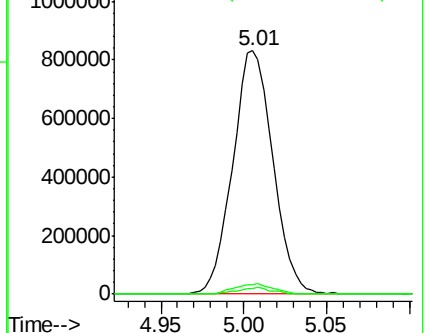
100 2.2 1.1 3.3

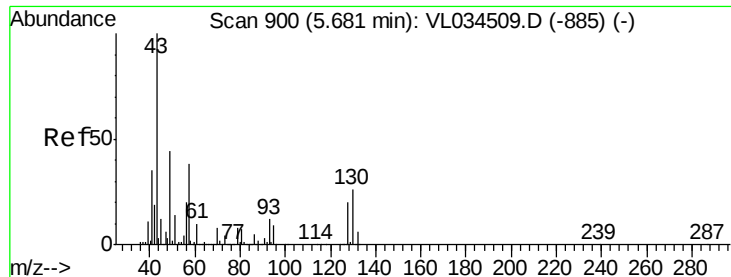


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.654 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

Tgt Ion: 43 Resp: 2427902

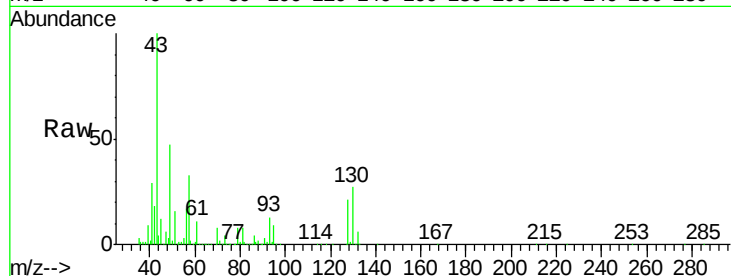
Ion Ratio Lower Upper

43 100

45 10.3 8.3 12.5

61 9.7 7.8 11.6

70 7.5 5.8 8.8

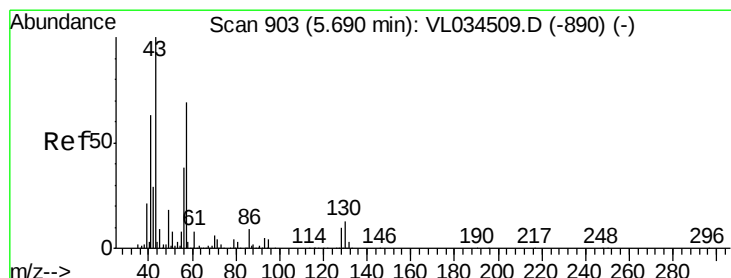
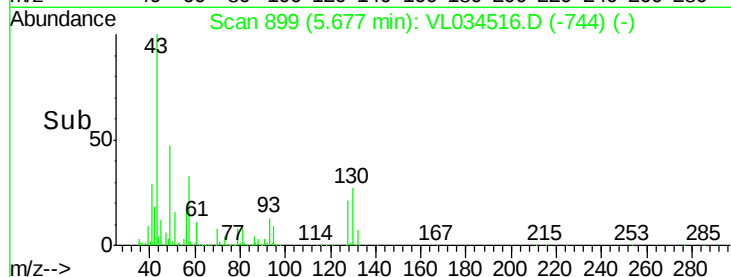
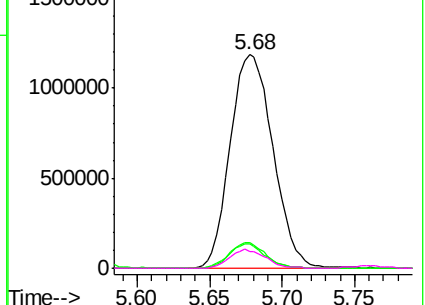


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.887 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Tgt Ion: 57 Resp: 1047711

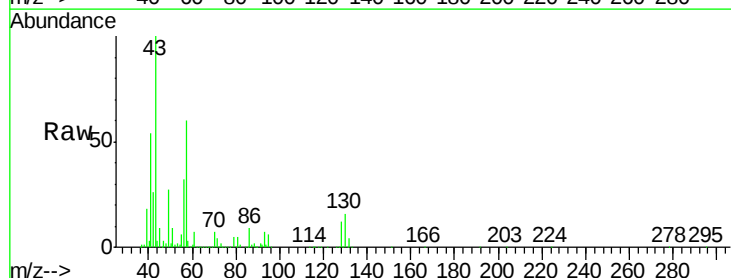
Ion Ratio Lower Upper

57 100

41 91.4 75.3 112.9

43 232.6 189.4 284.2

56 53.2 42.8 64.2

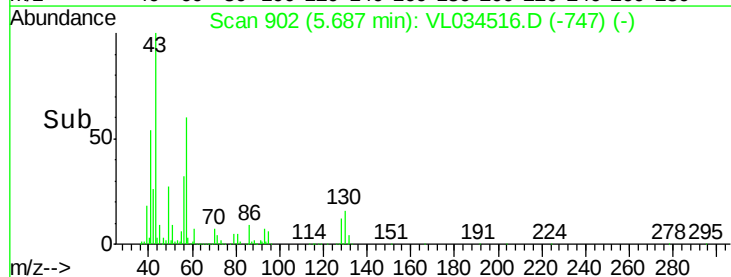
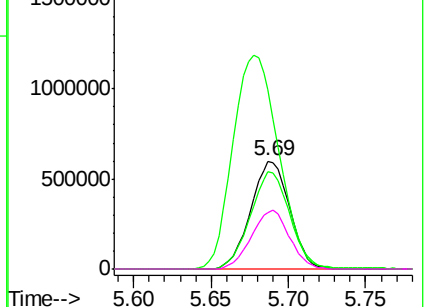


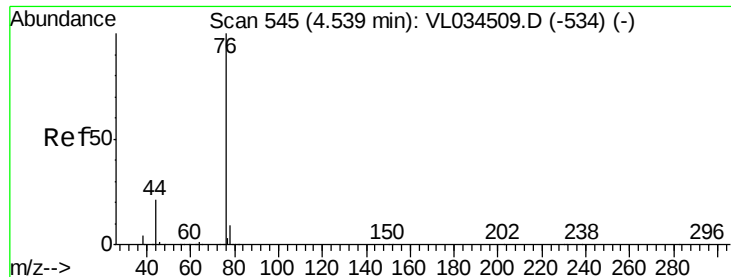
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.251 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

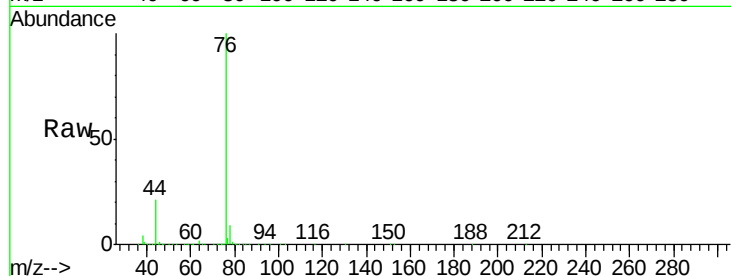
Tgt Ion: 76 Resp: 1373080

Ion Ratio Lower Upper

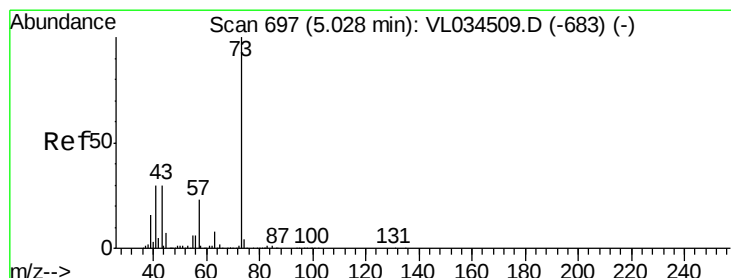
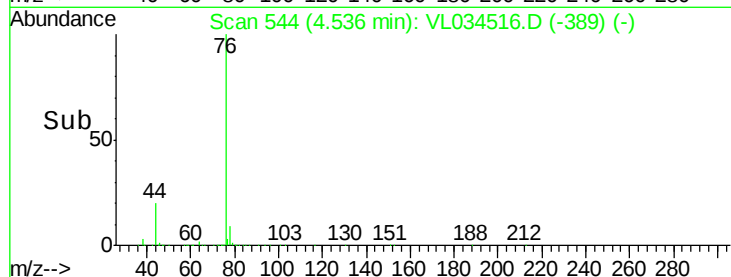
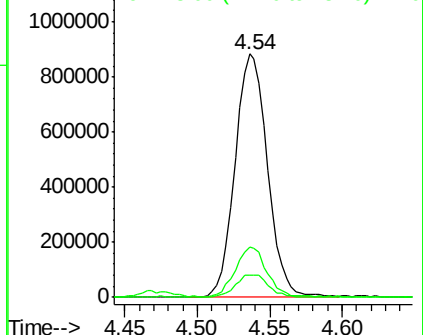
76 100

44 20.0 16.6 25.0

78 9.2 7.4 11.0



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



#28

Methyl tert-Butyl Ether

Concen: 10.600 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.00 min

Lab File: VL034516.D

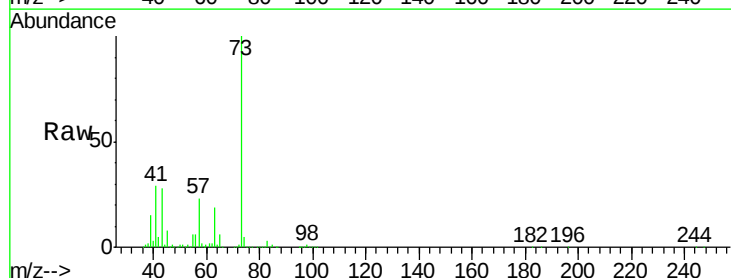
Acq: 30 Dec 2019 16:18

Tgt Ion: 73 Resp: 1876172

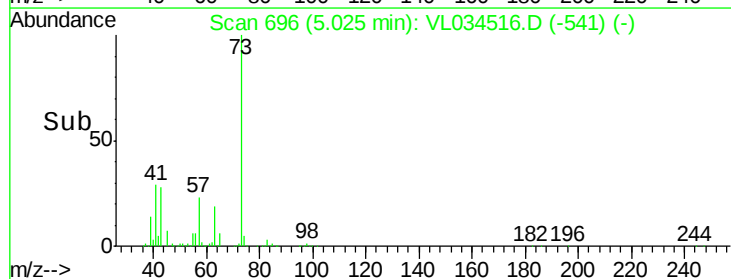
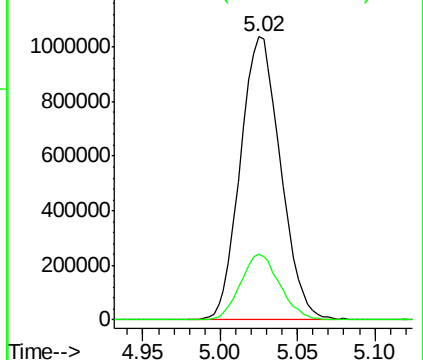
Ion Ratio Lower Upper

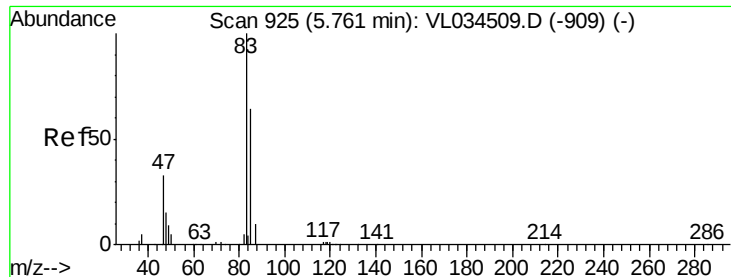
73 100

57 22.9 18.2 27.2



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

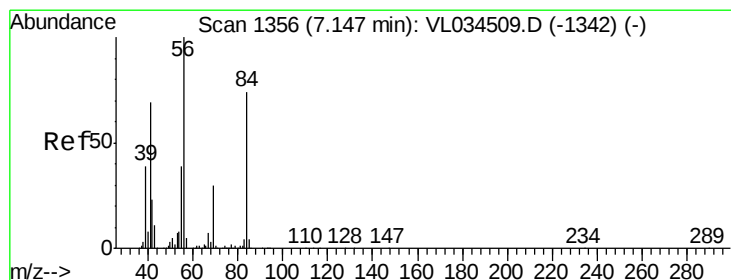
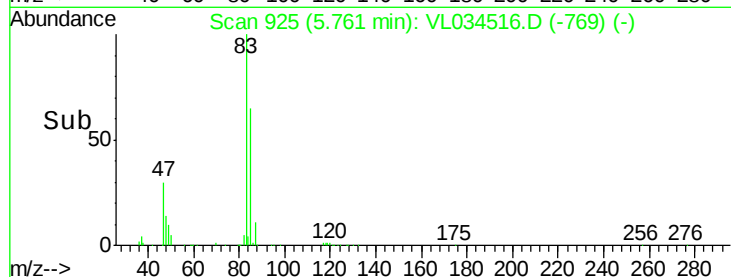
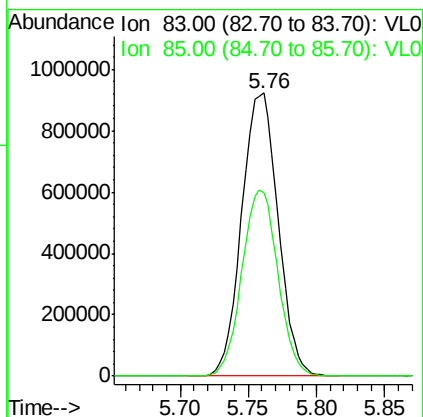
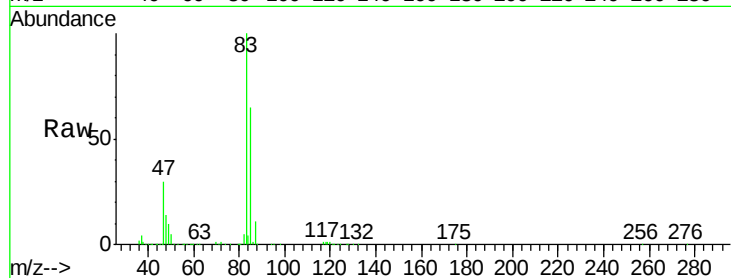




#29
Chloroform
Concen: 9.333 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

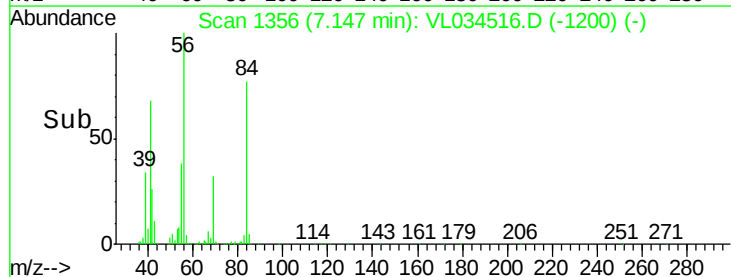
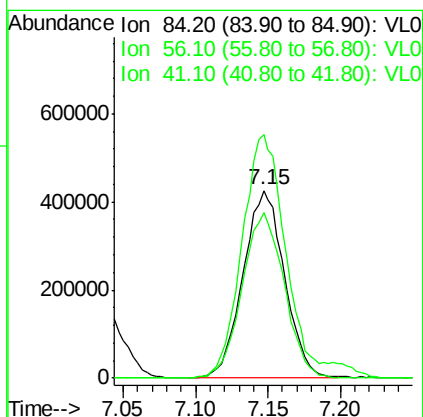
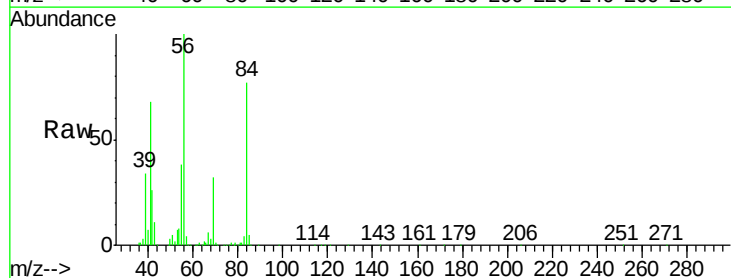
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

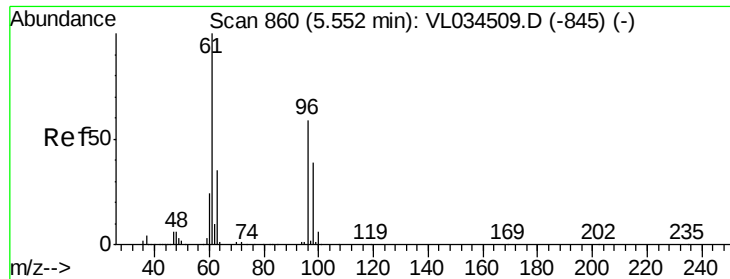
Tgt Ion: 83 Resp: 1711317
Ion Ratio Lower Upper
83 100
85 64.7 51.0 76.6



#30
Cyclohexane
Concen: 10.738 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

Tgt Ion: 84 Resp: 845812
Ion Ratio Lower Upper
84 100
56 141.1 112.7 169.1
41 89.6 73.0 109.4



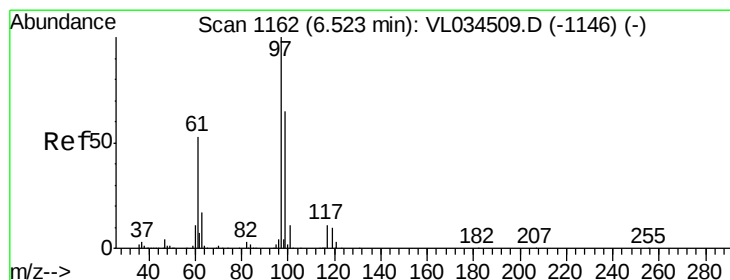
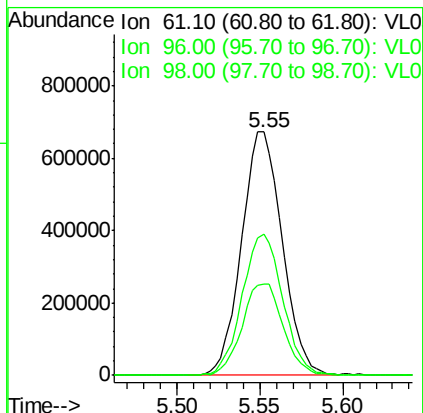
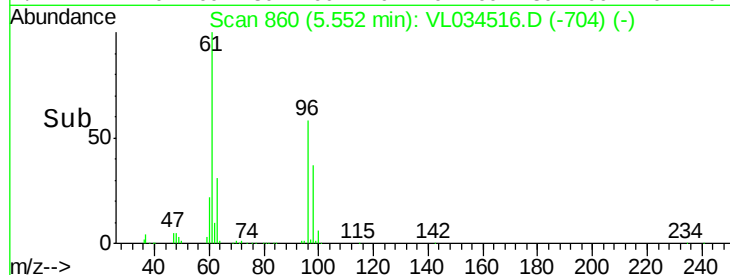
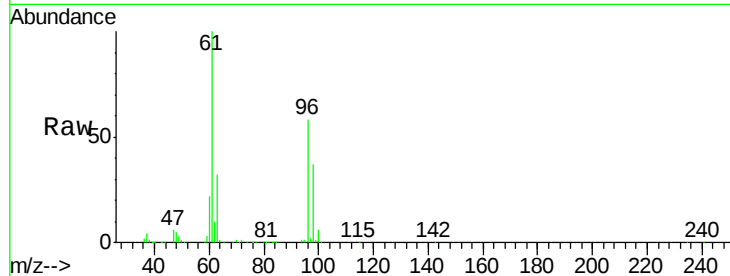


#31

cis-1,2-Dichloroethene
 Concen: 10.641 ppbv
 RT: 5.55 min Scan# 860
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL123019

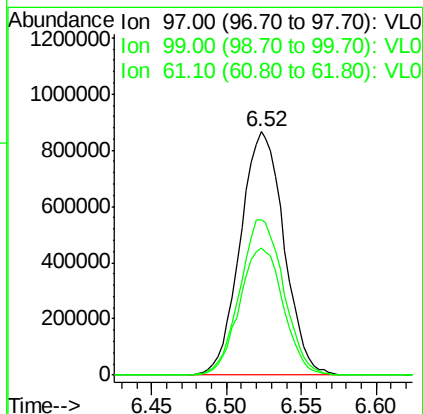
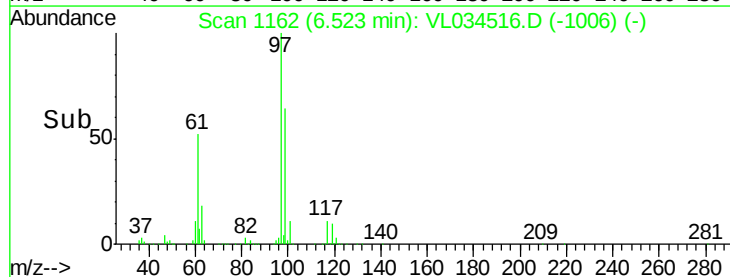
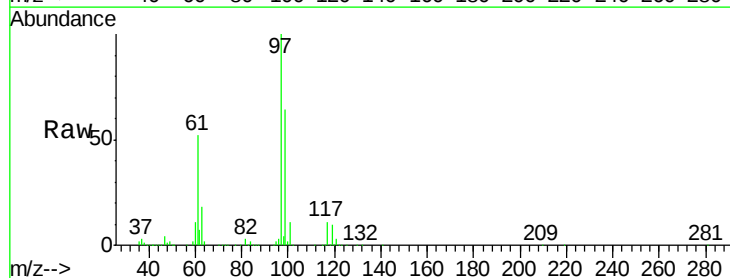
Tgt Ion: 61 Resp: 1149144
 Ion Ratio Lower Upper
 61 100
 96 58.1 47.1 70.7
 98 37.4 31.0 46.6

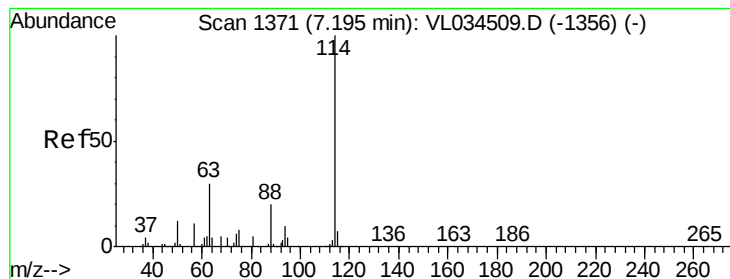


#32

1,1,1-Trichloroethane
 Concen: 9.232 ppbv
 RT: 6.52 min Scan# 1162
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

Tgt Ion: 97 Resp: 1757193
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.7 77.5
 61 52.9 42.9 64.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1371

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

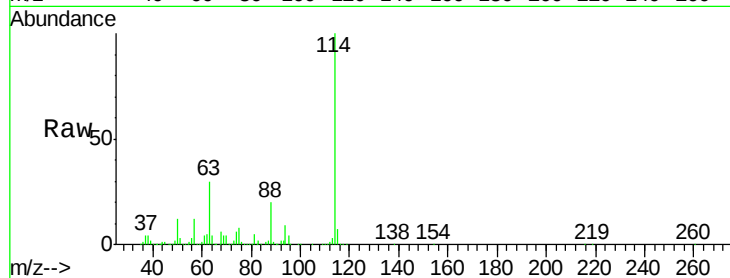
Tgt Ion:114 Resp: 2284904

Ion Ratio Lower Upper

114 100

63 29.1 24.1 36.1

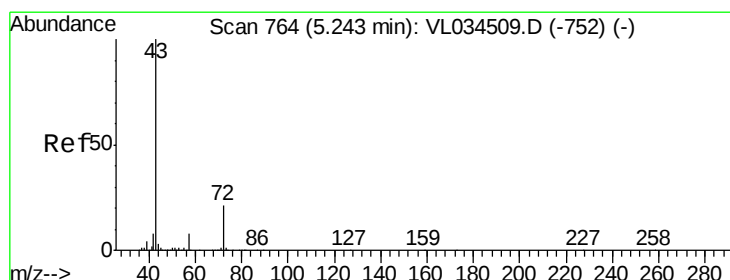
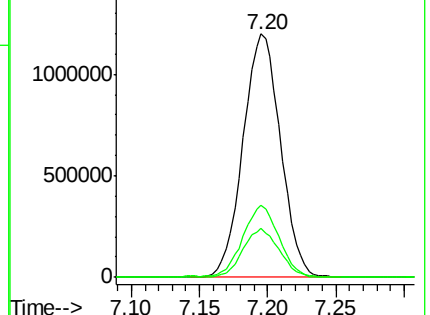
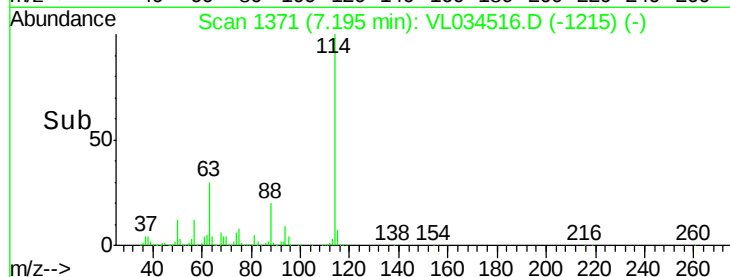
88 19.5 15.7 23.5



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: 9.886 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.00 min

Lab File: VL034516.D

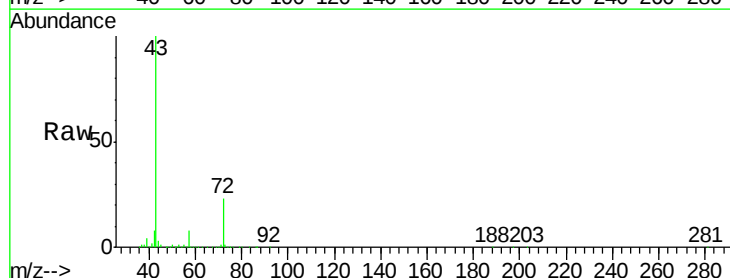
Acq: 30 Dec 2019 16:18

Tgt Ion: 43 Resp: 1614180

Ion Ratio Lower Upper

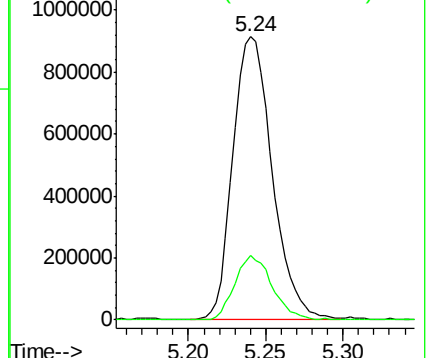
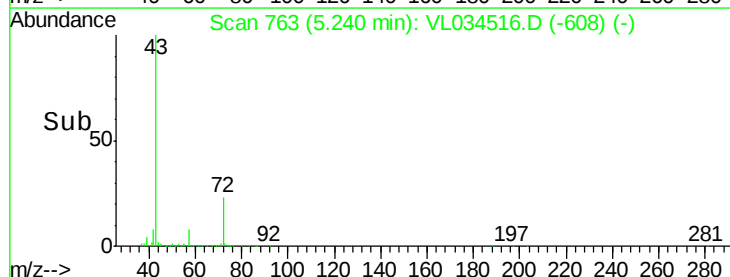
43 100

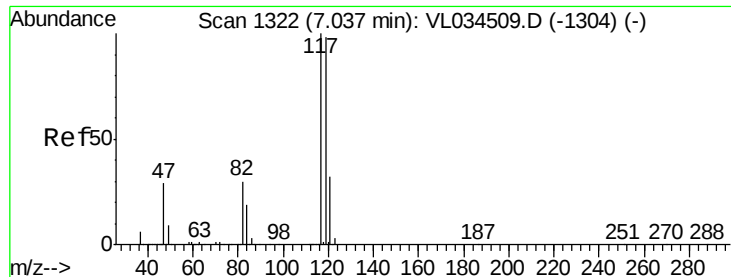
72 21.9 17.0 25.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.831 ppbv

RT: 7.03 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

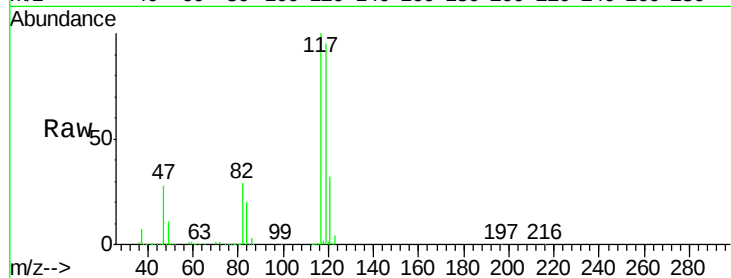
Tgt Ion:117 Resp: 1829981

Ion Ratio Lower Upper

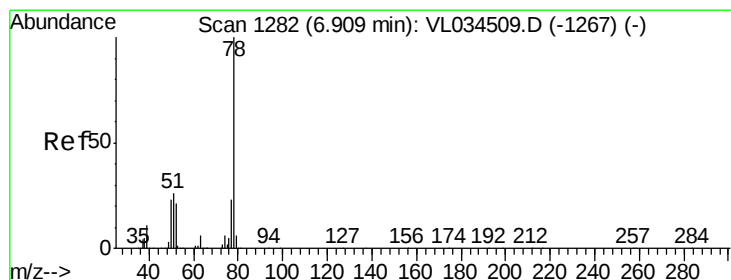
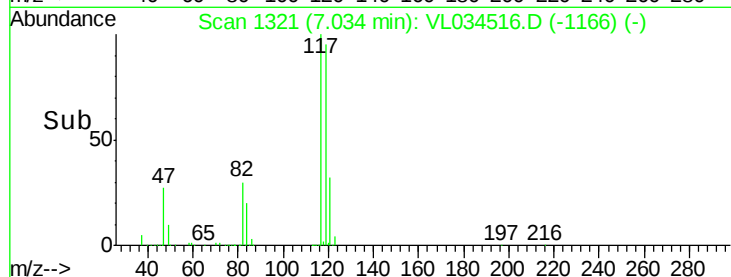
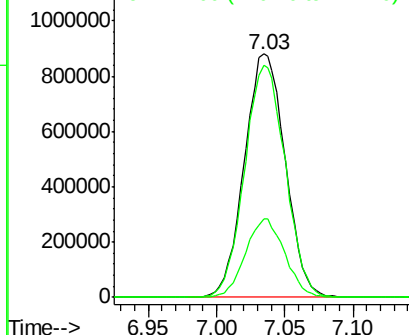
117 100

119 95.2 78.7 118.1

121 32.3 25.9 38.9



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: 10.119 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

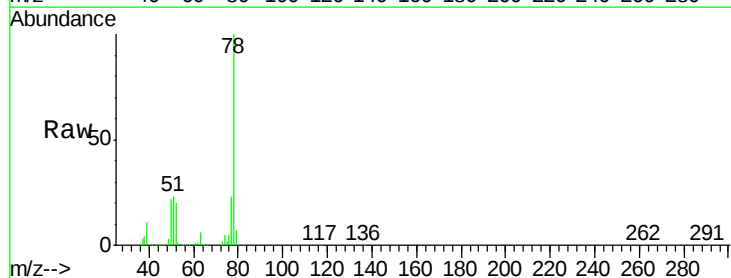
Tgt Ion: 78 Resp: 2015474

Ion Ratio Lower Upper

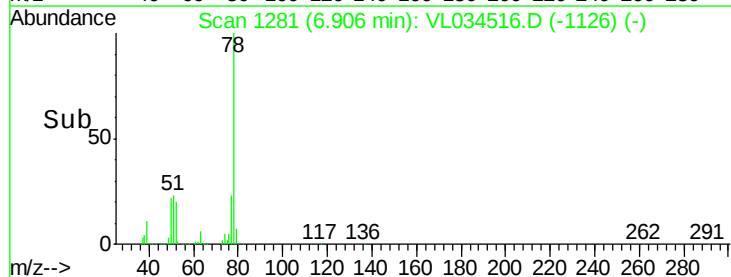
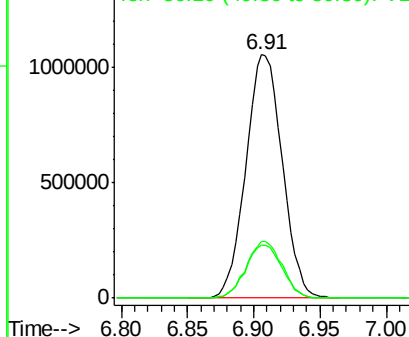
78 100

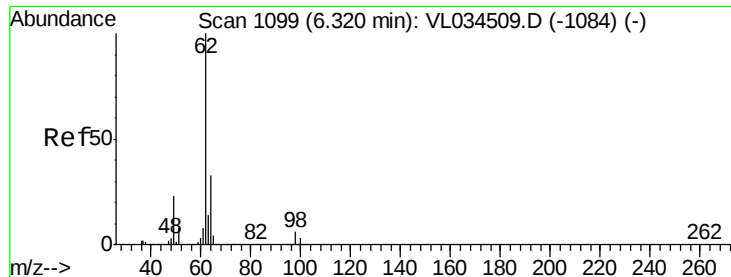
77 23.3 18.6 28.0

50 21.7 18.8 28.2



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

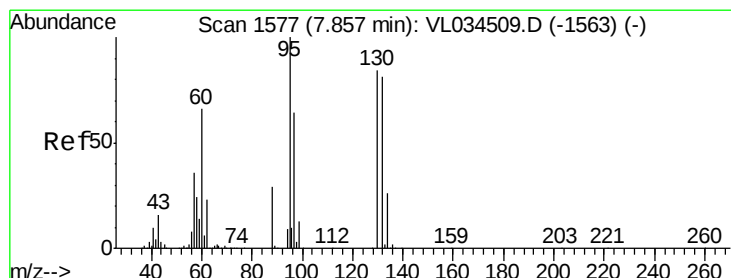
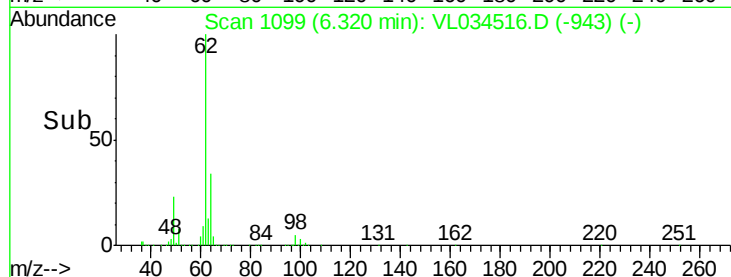
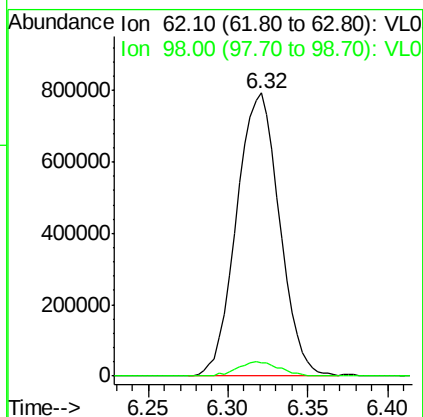
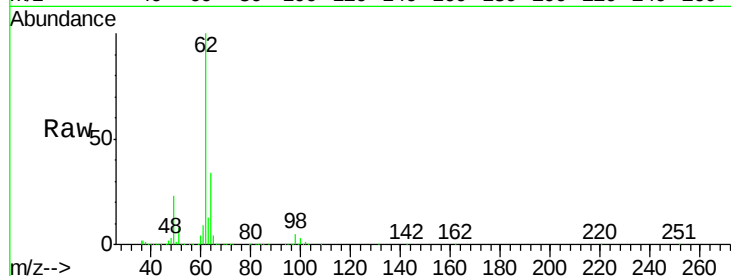




#37
 1,2-Dichloroethane
 Concen: 8.959 ppbv
 RT: 6.32 min Scan# 1099
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

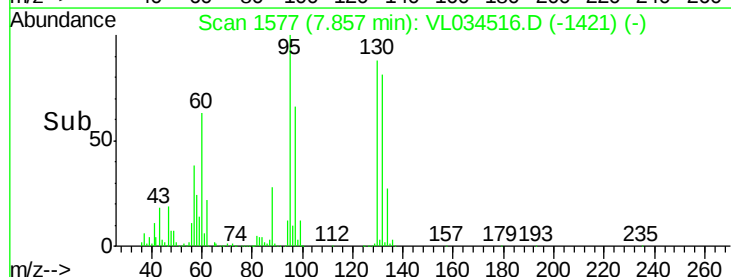
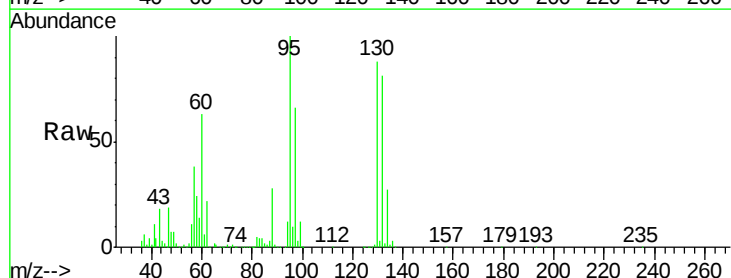
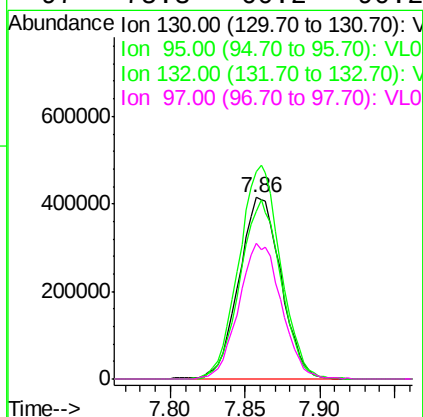
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL123019

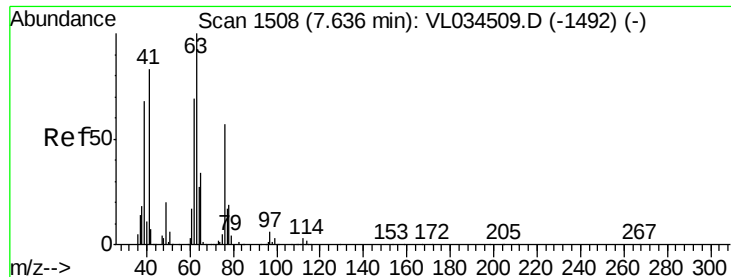
Tgt Ion: 62 Resp: 1449092
 Ion Ratio Lower Upper
 62 100
 98 5.0 3.8 5.6



#38
 Trichloroethene
 Concen: 10.047 ppbv
 RT: 7.86 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

Tgt Ion: 130 Resp: 808331
 Ion Ratio Lower Upper
 130 100
 95 114.1 94.2 141.2
 132 92.6 76.1 114.1
 97 75.3 60.2 90.2

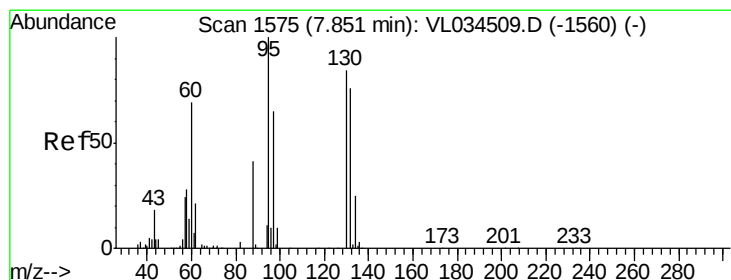
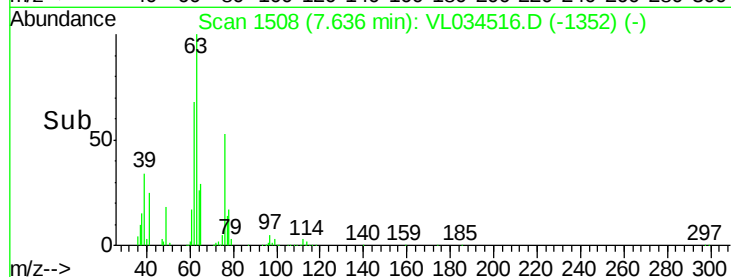
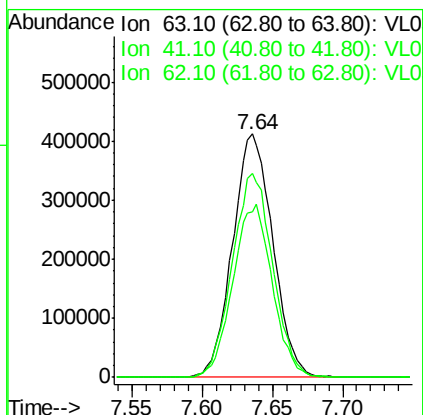
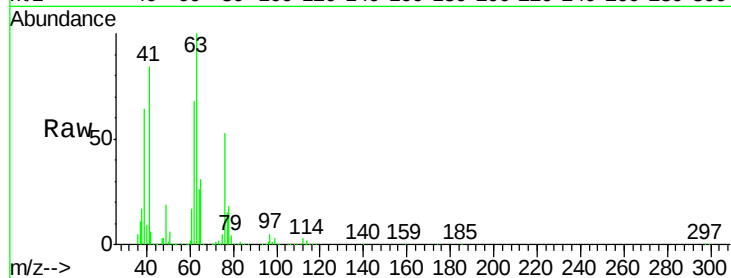




#39
 1,2-Dichloropropane
 Concen: 9.995 ppbv
 RT: 7.64 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

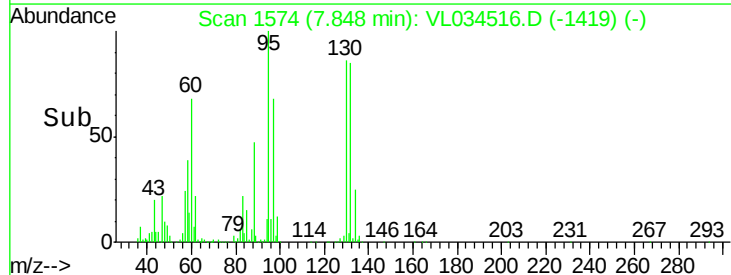
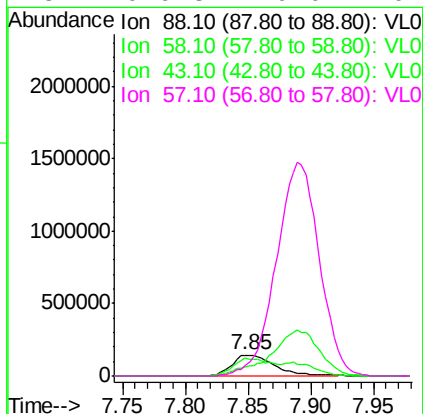
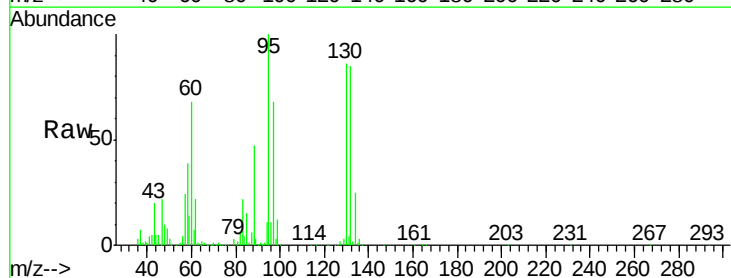
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL123019

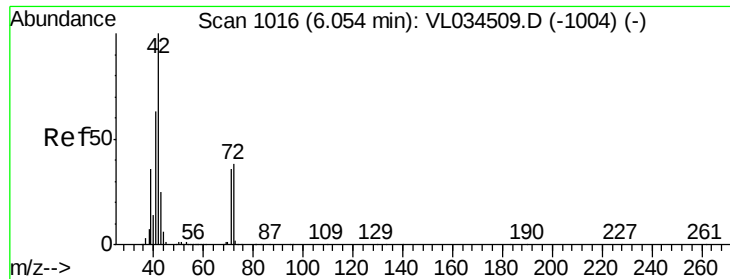
Tgt Ion: 63 Resp: 818621
 Ion Ratio Lower Upper
 63 100
 41 83.5 66.1 99.1
 62 68.2 54.9 82.3



#40
 1,4-Dioxane
 Concen: 10.299 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

Tgt Ion: 88 Resp: 341391
 Ion Ratio Lower Upper
 88 100
 58 126.2 107.9 161.9
 43 251.1 0.0 0.0#
 57 1029.8 0.0 0.0#

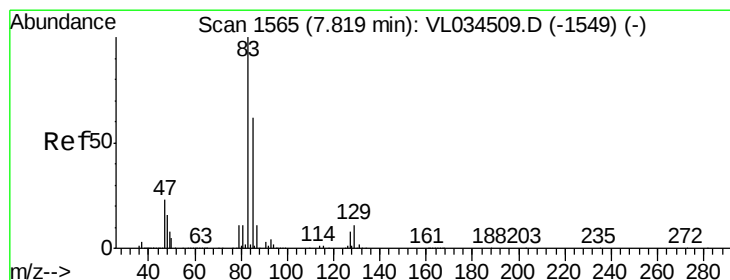
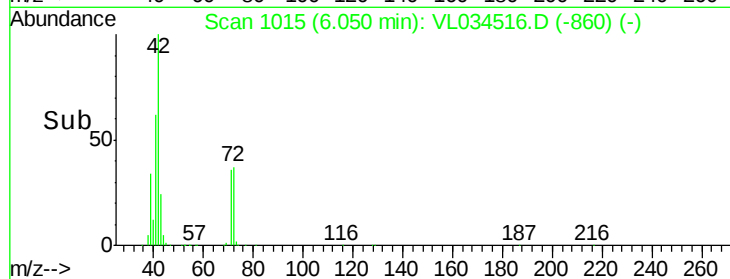
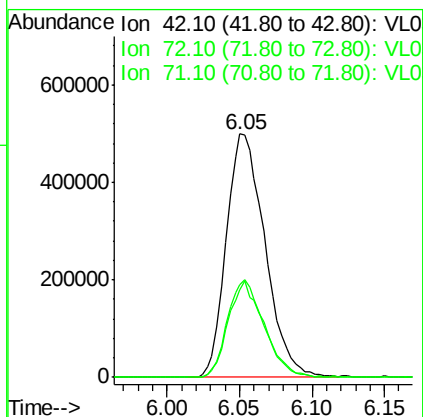
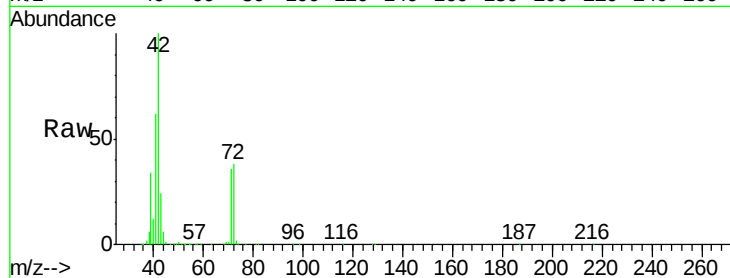




#41
Tetrahydrofuran
Concen: 11.032 ppbv
RT: 6.05 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

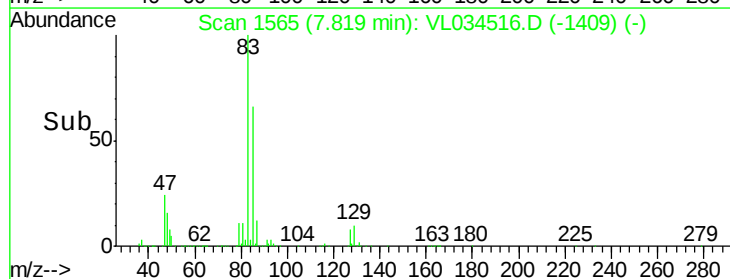
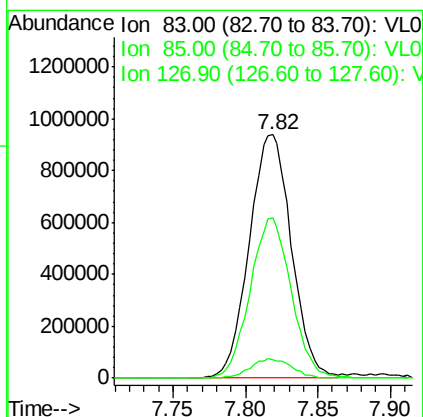
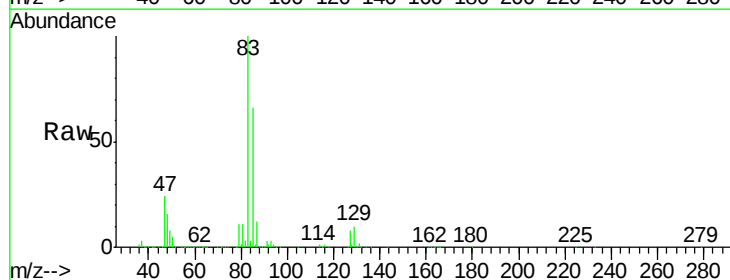
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

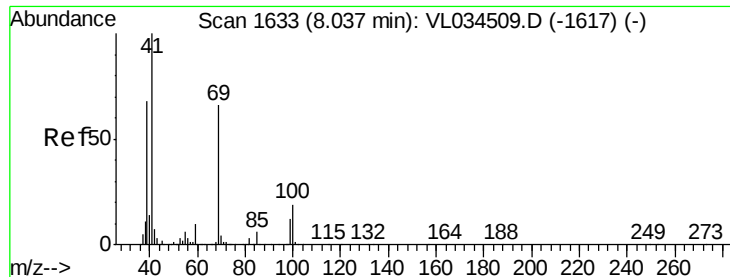
Tgt Ion: 42 Resp: 924019
Ion Ratio Lower Upper
42 100
72 38.3 30.9 46.3
71 36.5 28.9 43.3



#42
Bromodichloromethane
Concen: 9.552 ppbv
RT: 7.82 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

Tgt Ion: 83 Resp: 1900994
Ion Ratio Lower Upper
83 100
85 65.9 49.4 74.2
127 7.7 6.2 9.4

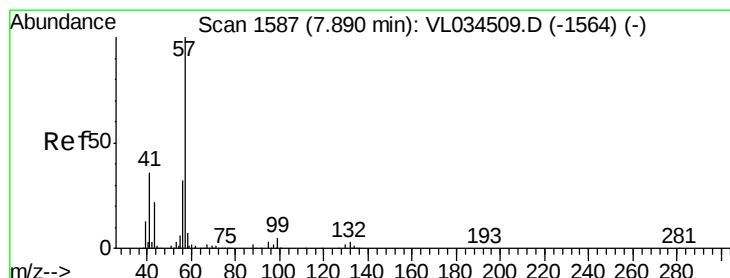
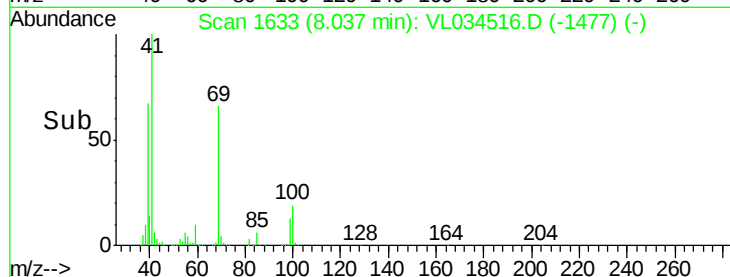
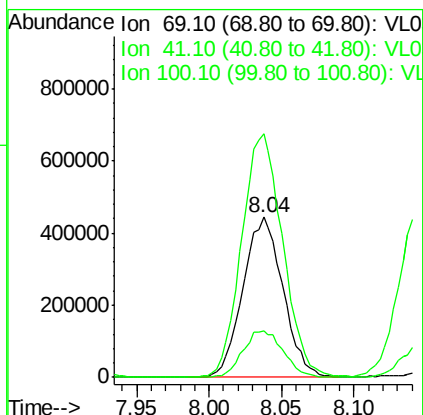
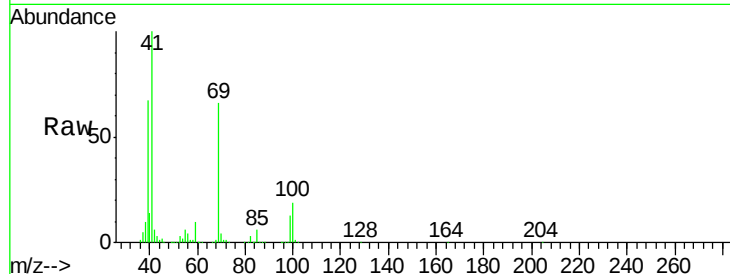




#43
Methyl Methacrylate
Concen: 10.528 ppbv
RT: 8.04 min Scan# 1633
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

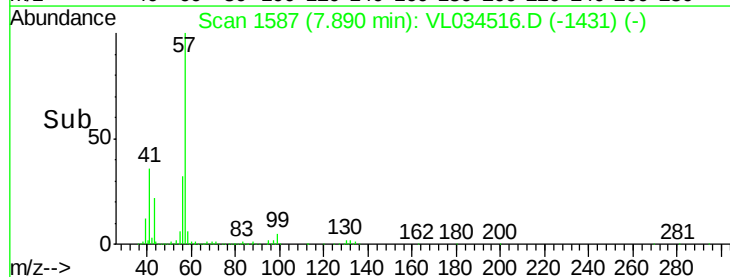
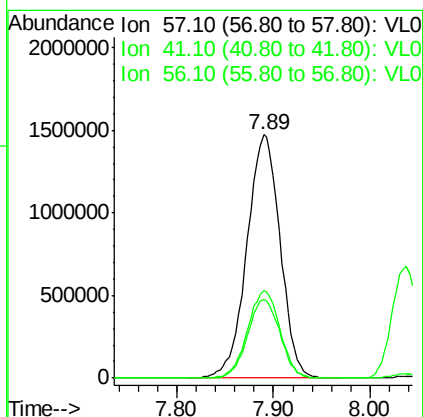
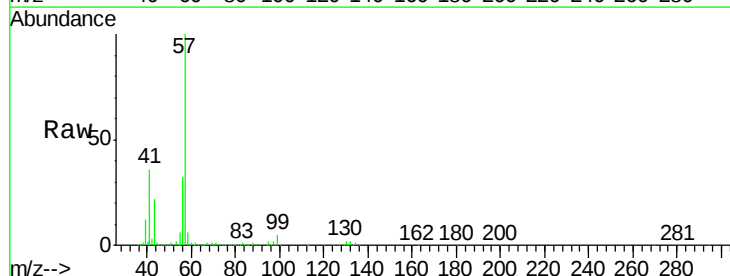
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

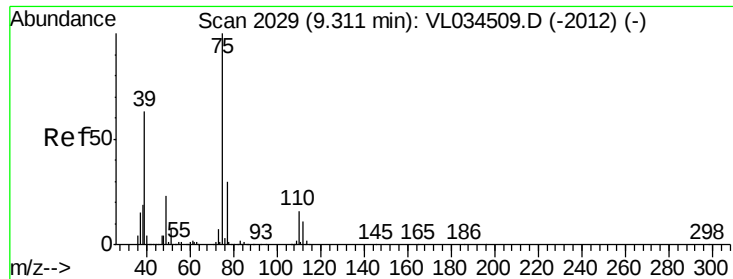
Tgt Ion: 69 Resp: 855382
Ion Ratio Lower Upper
69 100
41 155.3 124.0 186.0
100 29.2 23.1 34.7



#44
2,2,4-Trimethylpentane
Concen: 9.542 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

Tgt Ion: 57 Resp: 3515721
Ion Ratio Lower Upper
57 100
41 35.1 29.0 43.4
56 31.5 24.9 37.3

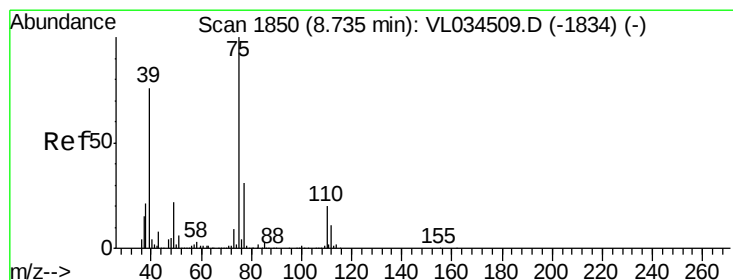
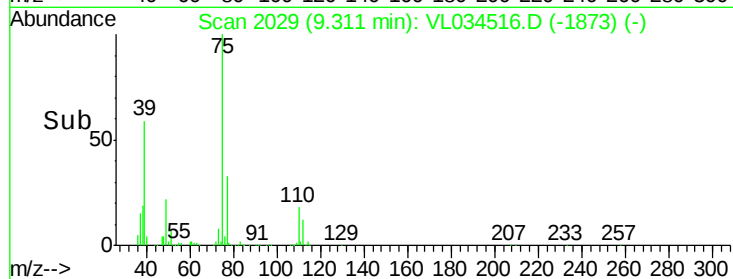
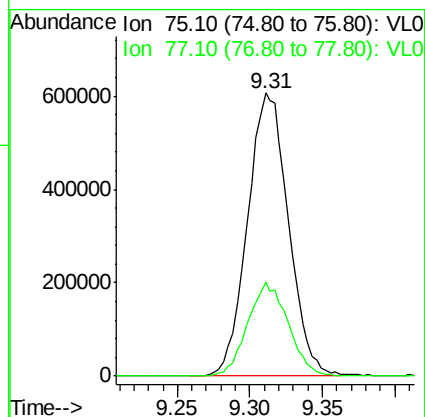
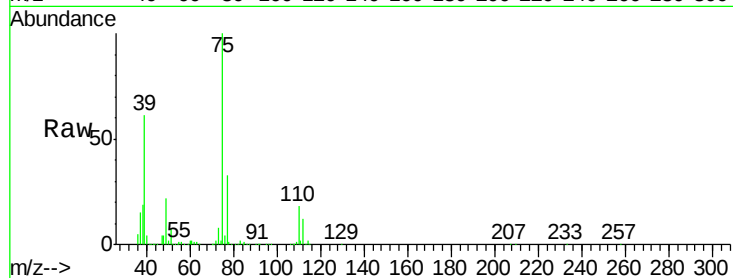




#45
t-1,3-Dichloropropene
Concen: 11.391 ppbv
RT: 9.31 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

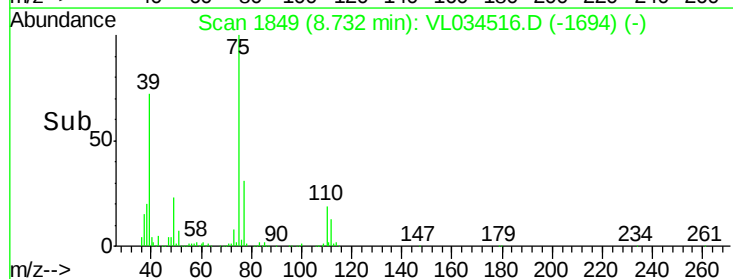
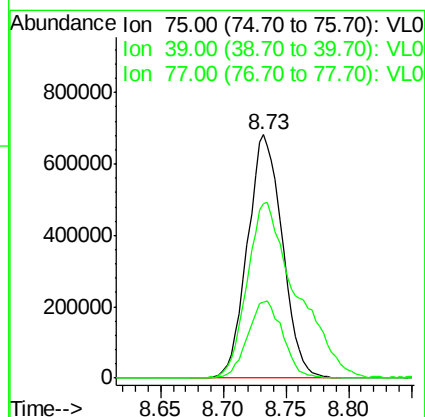
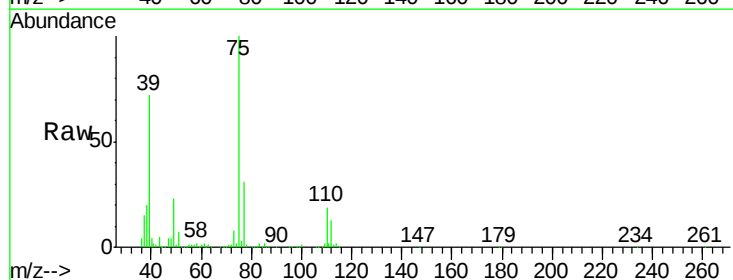
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

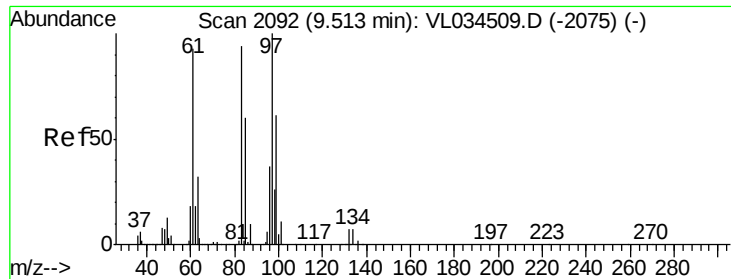
Tgt Ion: 75 Resp: 1192192
Ion Ratio Lower Upper
75 100
77 33.0 24.2 36.2



#46
cis-1,3-Dichloropropene
Concen: 11.035 ppbv
RT: 8.73 min Scan# 1849
Delta R.T. -0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

Tgt Ion: 75 Resp: 1320151
Ion Ratio Lower Upper
75 100
39 71.8 60.5 90.7
77 31.3 24.8 37.2





#47

1,1,2-Trichloroethane

Concen: 9.456 ppbv

RT: 9.51 min Scan# 2091

Delta R.T. -0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

Tgt Ion: 97 Resp: 853735

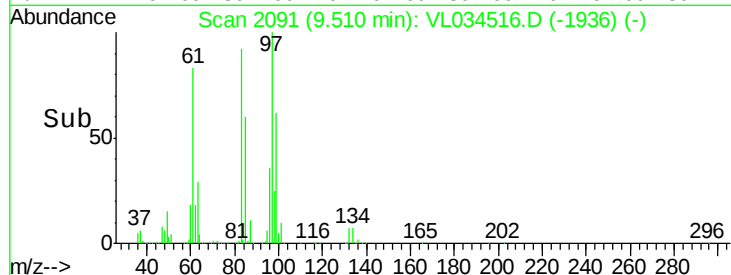
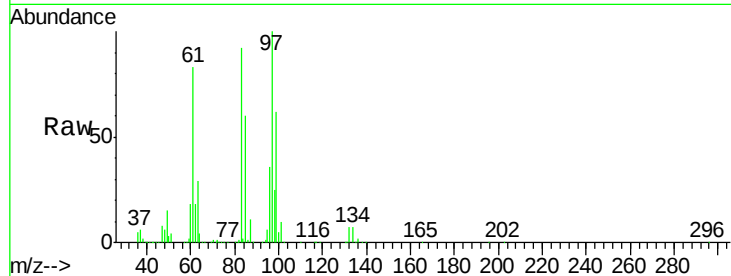
Ion Ratio Lower Upper

97 100

83 92.3 75.0 112.4

85 60.3 48.2 72.4

99 62.2 48.5 72.7

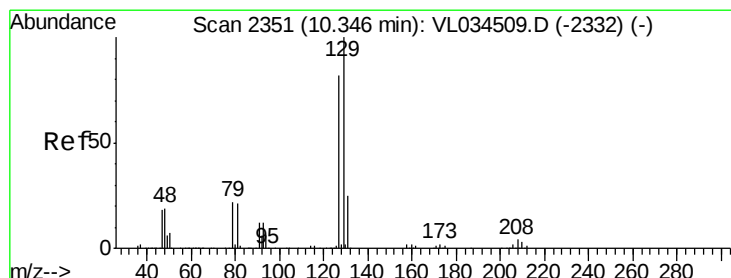
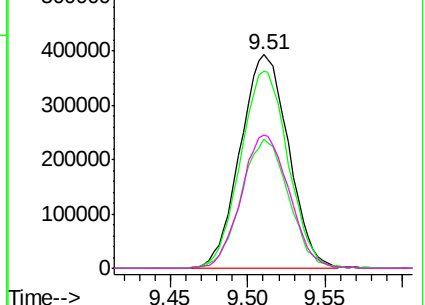


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.093 ppbv

RT: 10.35 min Scan# 2351

Delta R.T. 0.00 min

Lab File: VL034516.D

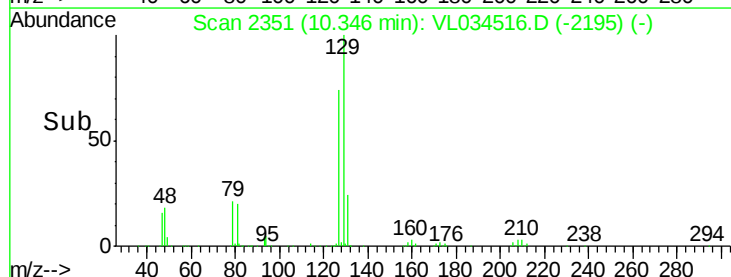
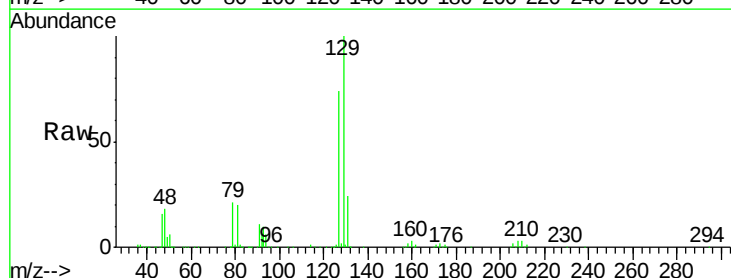
Acq: 30 Dec 2019 16:18

Tgt Ion: 129 Resp: 1579656

Ion Ratio Lower Upper

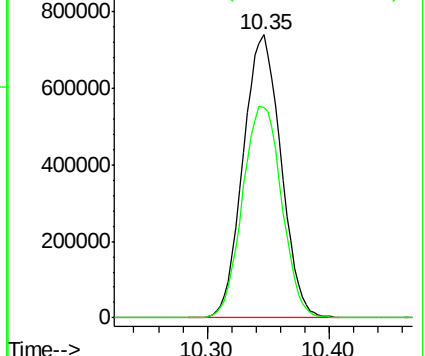
129 100

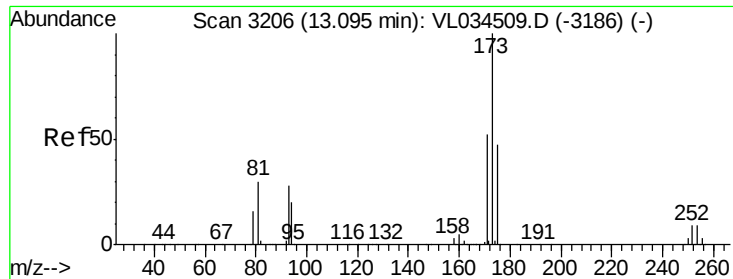
127 77.7 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.832 ppbv

RT: 13.10 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

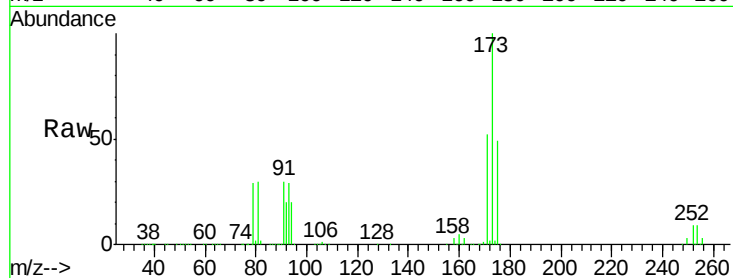
Tgt Ion:173 Resp: 1393086

Ion Ratio Lower Upper

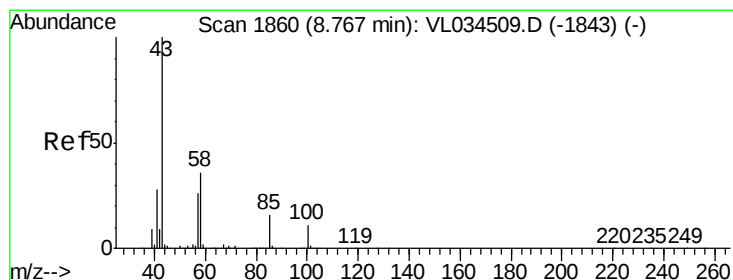
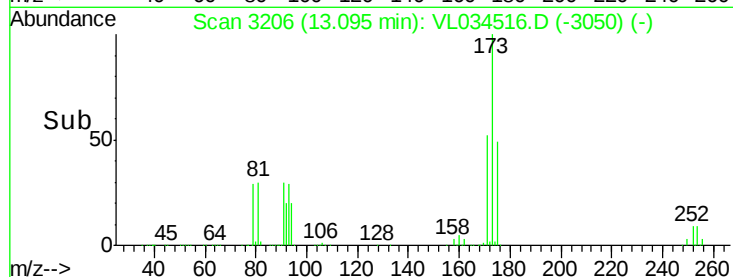
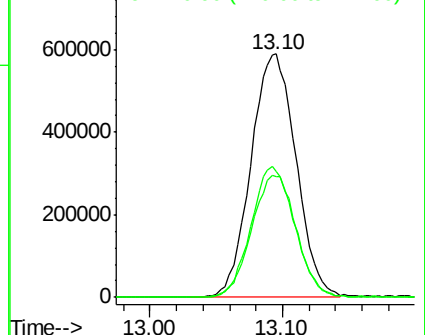
173 100

175 49.7 39.8 59.8

171 52.4 42.1 63.1



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



#50

4-Methyl-2-Pentanone

Concen: 9.855 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL034516.D

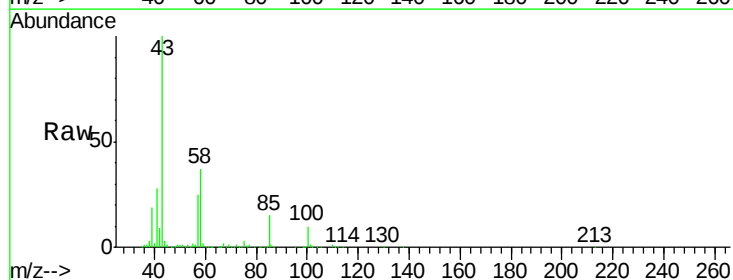
Acq: 30 Dec 2019 16:18

Tgt Ion: 43 Resp: 2335998

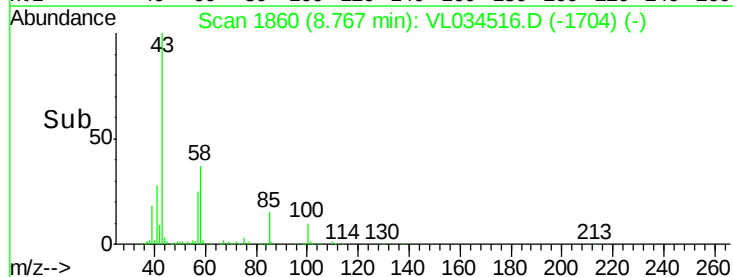
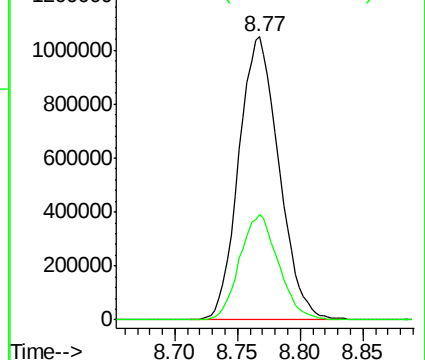
Ion Ratio Lower Upper

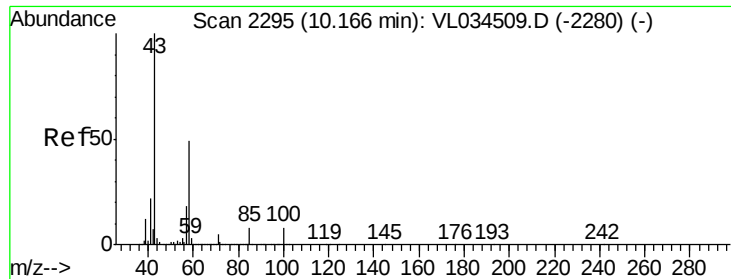
43 100

58 36.0 28.2 42.2



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

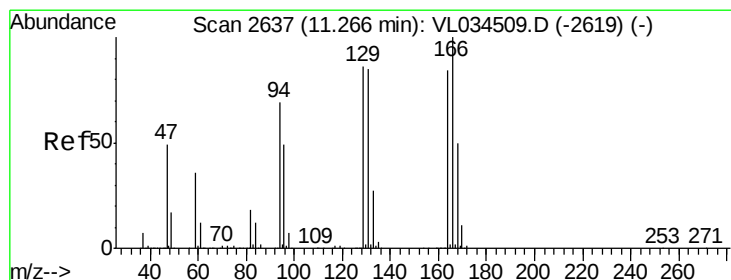
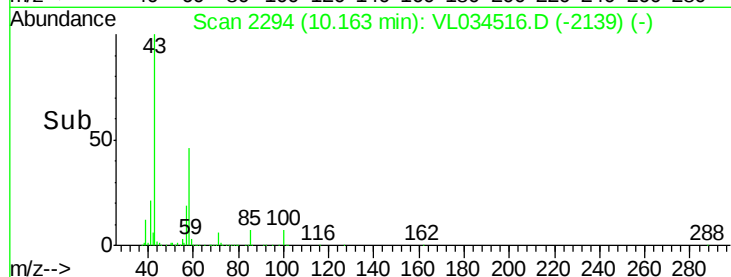
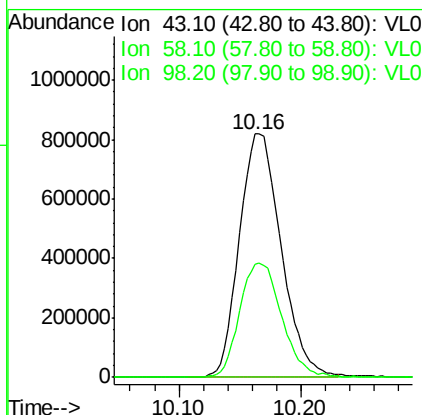
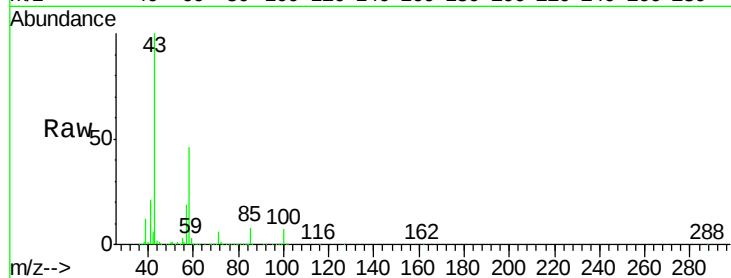




#51
2-Hexanone
Concen: 10.143 ppbv
RT: 10.16 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

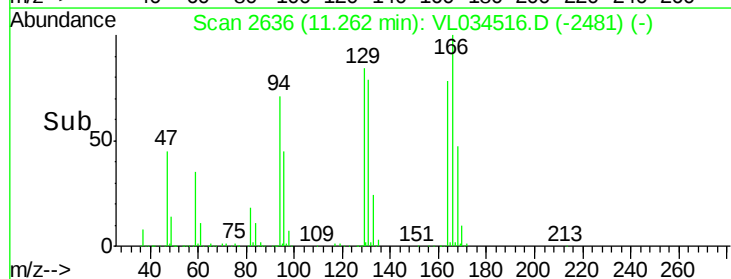
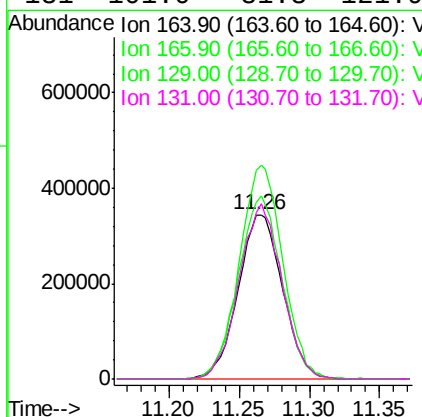
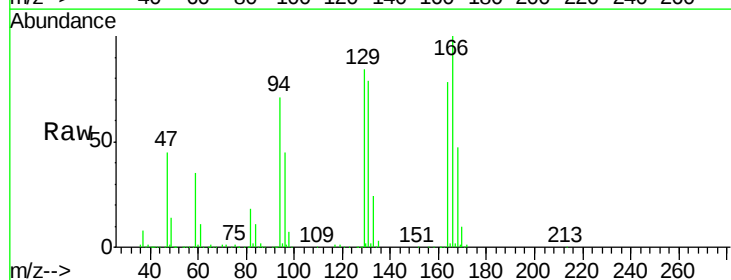
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

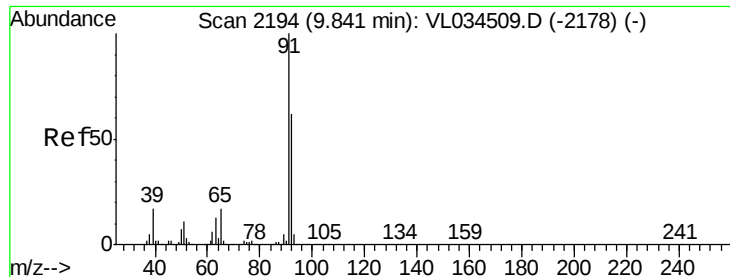
Tgt Ion: 43 Resp: 1940793
Ion Ratio Lower Upper
43 100
58 47.2 37.4 56.0
98 0.2 0.2 0.2



#52
Tetrachloroethene
Concen: 9.735 ppbv
RT: 11.26 min Scan# 2636
Delta R.T. -0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

Tgt Ion: 164 Resp: 756673
Ion Ratio Lower Upper
164 100
166 127.4 95.7 143.5
129 107.3 82.2 123.2
131 101.0 81.3 121.9





#53

Toluene

Concen: 10.573 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

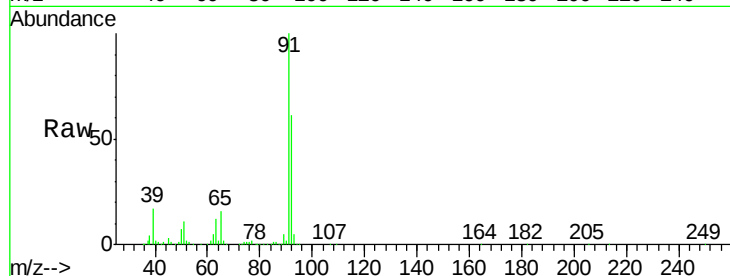
ICVVL123019

Tgt Ion: 91 Resp: 2313552

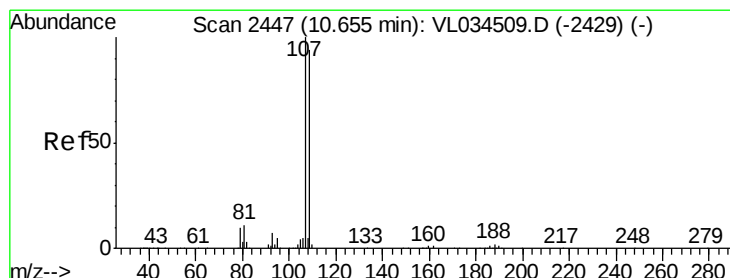
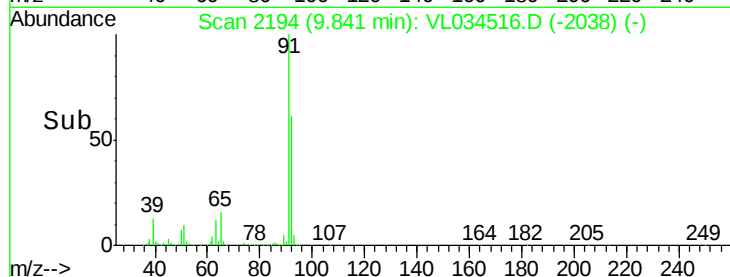
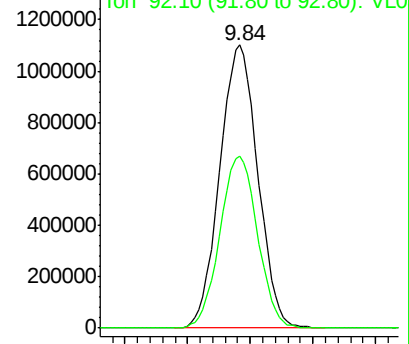
Ion Ratio Lower Upper

91 100

92 60.4 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0



#54

1,2-Dibromoethane

Concen: 9.860 ppbv

RT: 10.65 min Scan# 2446

Delta R.T. -0.00 min

Lab File: VL034516.D

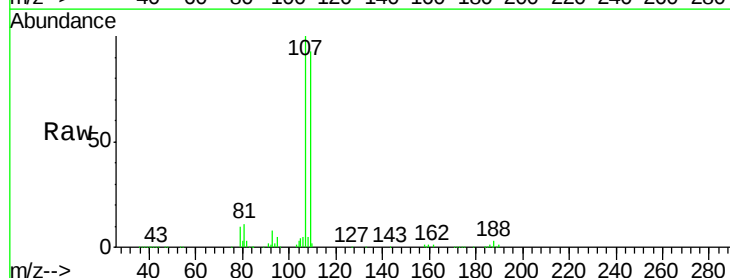
Acq: 30 Dec 2019 16:18

Tgt Ion: 107 Resp: 1295450

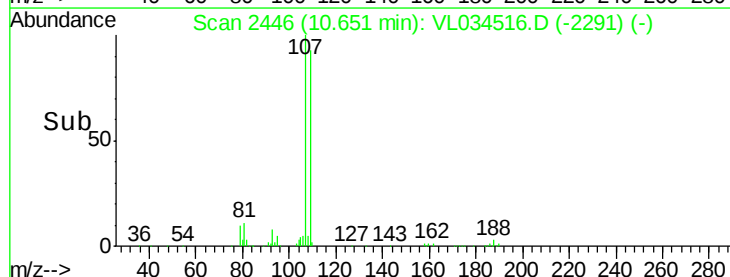
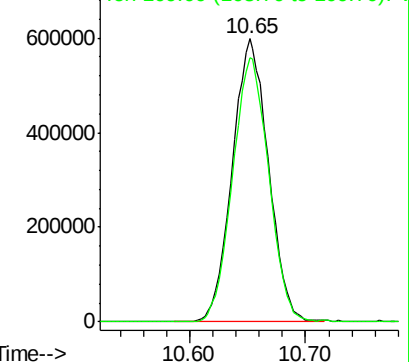
Ion Ratio Lower Upper

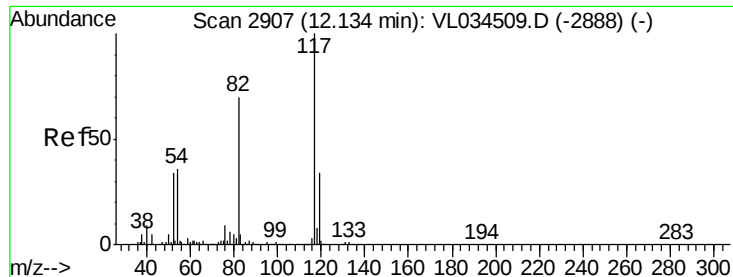
107 100

109 93.2 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

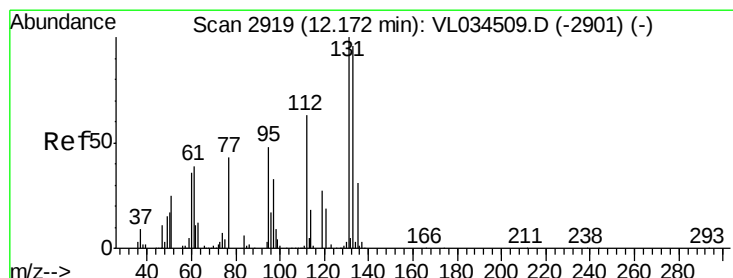
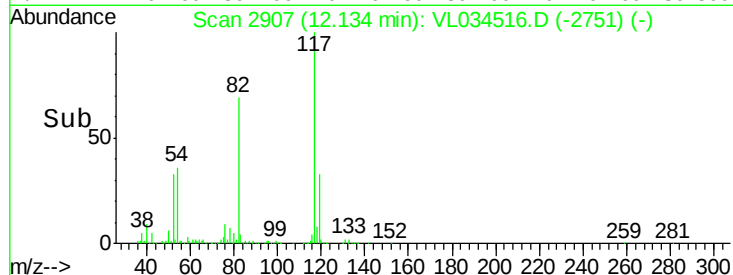
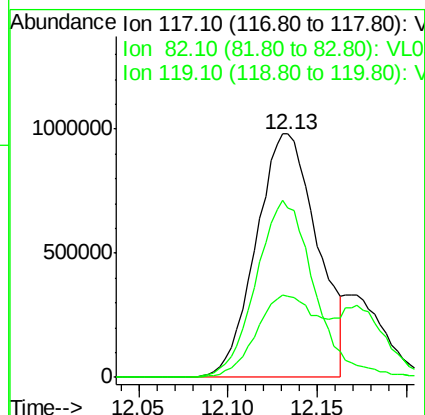
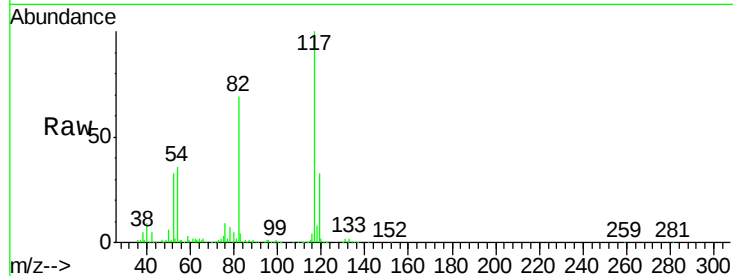




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

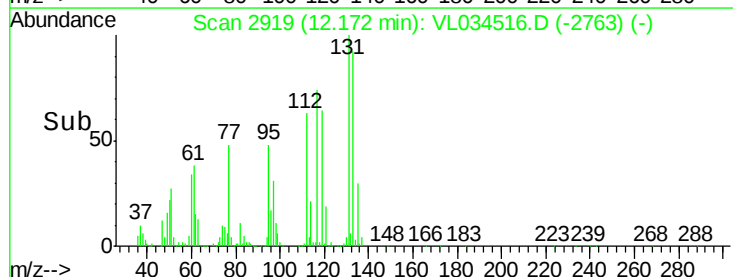
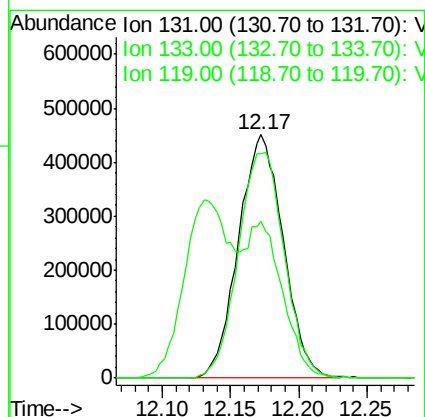
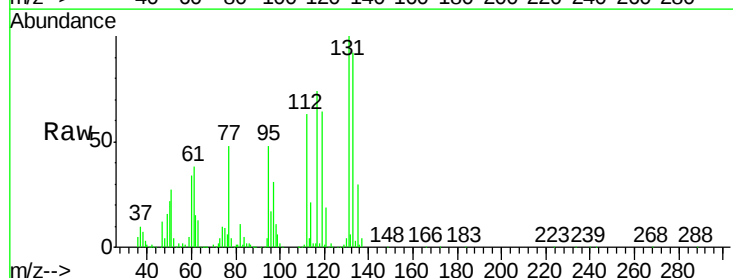
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

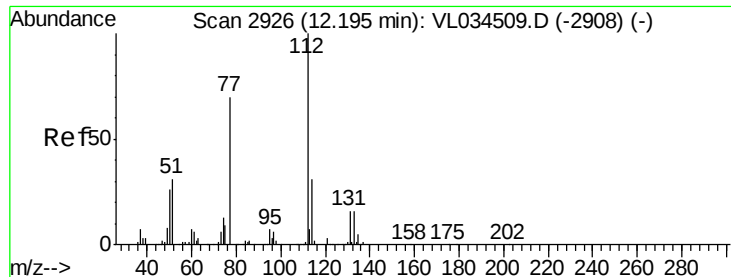
Tgt Ion:117 Resp: 2339197
Ion Ratio Lower Upper
117 100
82 69.8 56.2 84.4
119 58.0 27.1 40.7#



#56
1,1,1,2-Tetrachloroethane
Concen: 9.084 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

Tgt Ion:131 Resp: 1025802
Ion Ratio Lower Upper
131 100
133 95.8 76.2 114.2
119 132.2 47.1 70.7#





#57

Chlorobenzene

Concen: 9.120 ppbv

RT: 12.19 min Scan# 2926

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

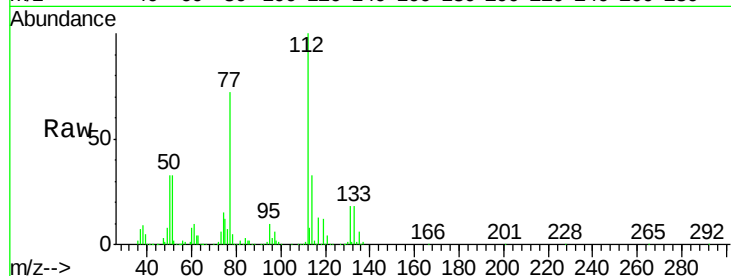
Tgt Ion: 112 Resp: 1760133

Ion Ratio Lower Upper

112 100

77 71.5 57.4 86.0

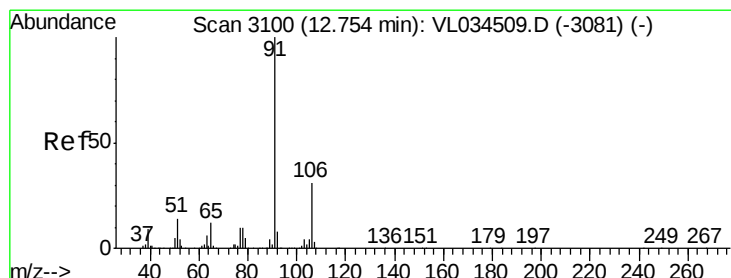
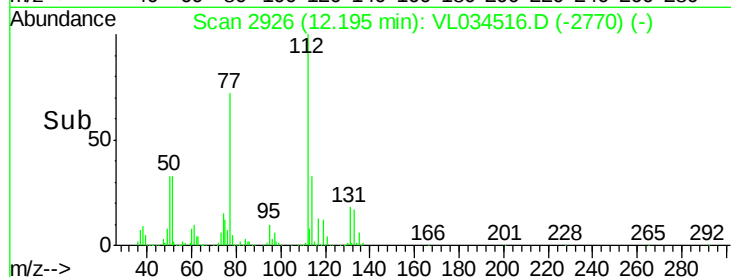
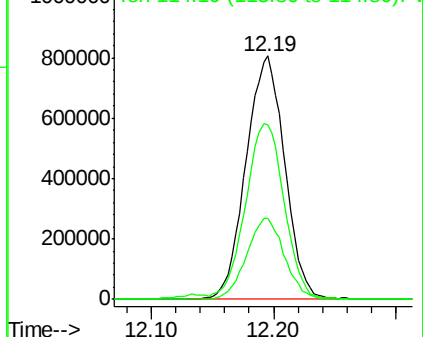
114 33.3 28.4 34.8



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: 9.942 ppbv

RT: 12.76 min Scan# 3101

Delta R.T. 0.00 min

Lab File: VL034516.D

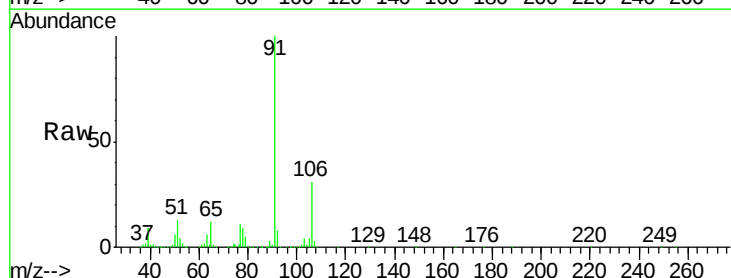
Acq: 30 Dec 2019 16:18

Tgt Ion: 91 Resp: 3136509

Ion Ratio Lower Upper

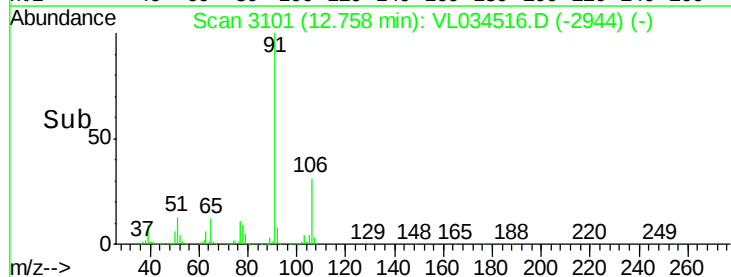
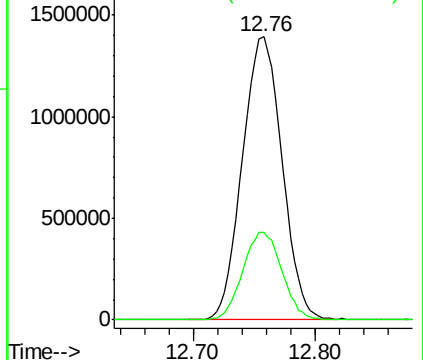
91 100

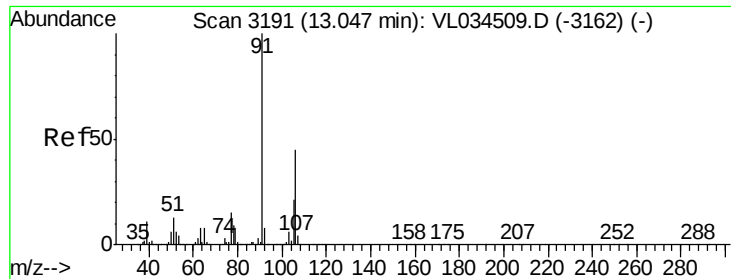
106 30.7 24.6 36.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

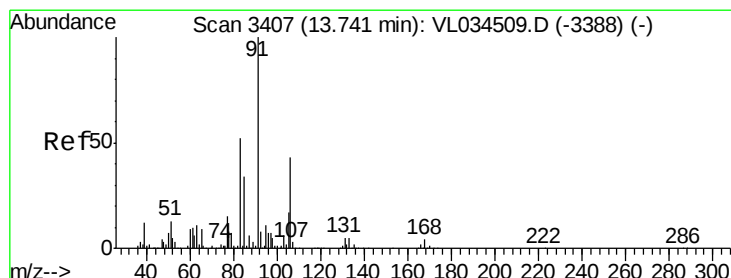
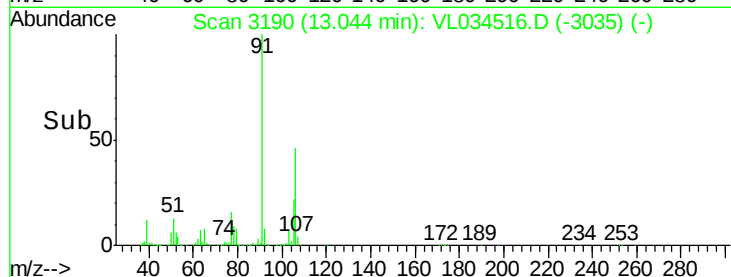
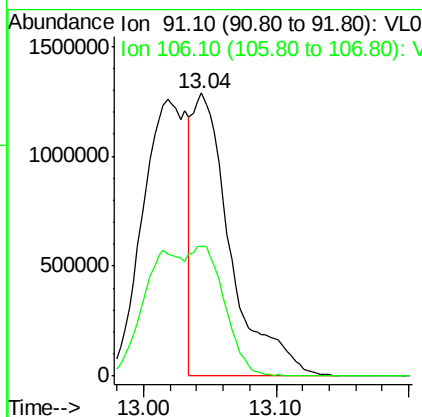
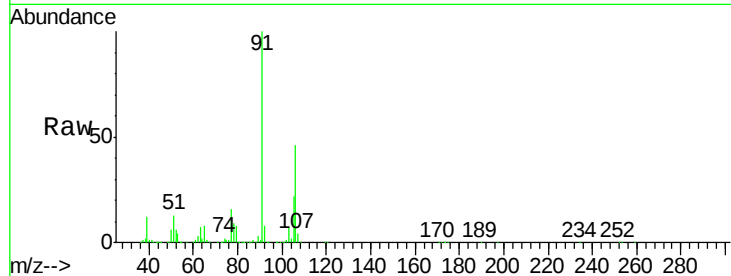




#59
m/p-Xylene
Concen: 9.223 ppbv
RT: 13.04 min Scan# 3190
Delta R.T. -0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

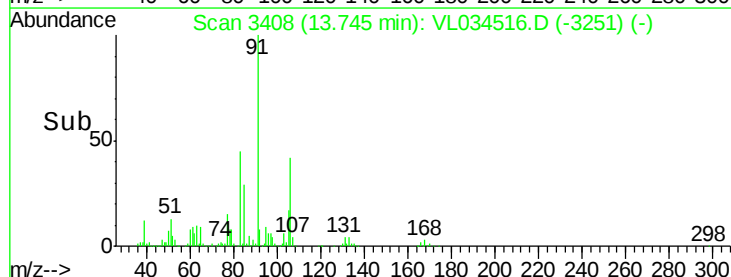
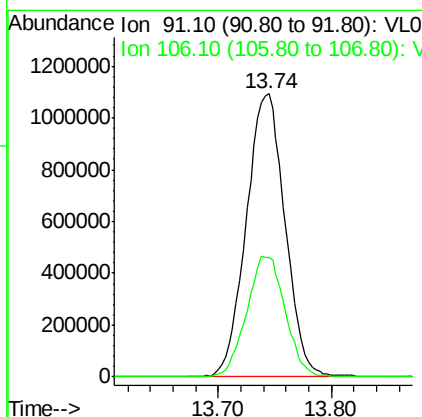
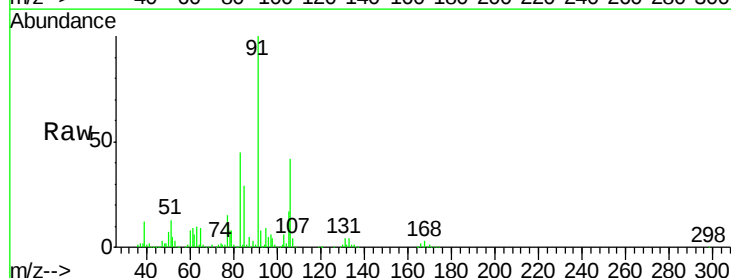
Instrument :
MSVOA_L
ClientSampleId :
ICVVL123019

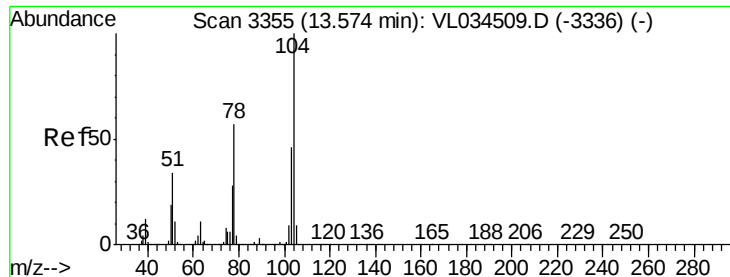
Tgt Ion: 91 Resp: 2544320
Ion Ratio Lower Upper
91 100
106 91.5 35.6 53.4#



#60
o-Xylene
Concen: 9.373 ppbv
RT: 13.74 min Scan# 3408
Delta R.T. 0.00 min
Lab File: VL034516.D
Acq: 30 Dec 2019 16:18

Tgt Ion: 91 Resp: 2594566
Ion Ratio Lower Upper
91 100
106 42.4 21.4 64.3





#61

Styrene

Concen: 10.239 ppbv

RT: 13.58 min Scan# 3356

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

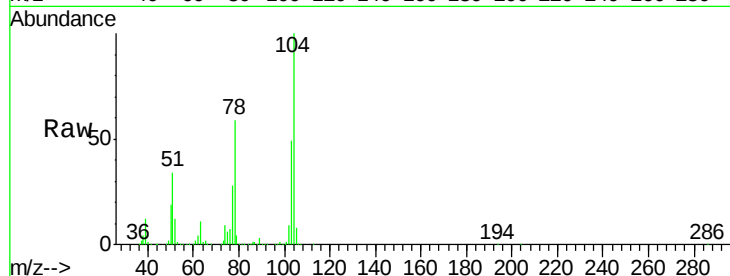
Tgt Ion:104 Resp: 1937854

Ion Ratio Lower Upper

104 100

78 58.6 47.7 71.5

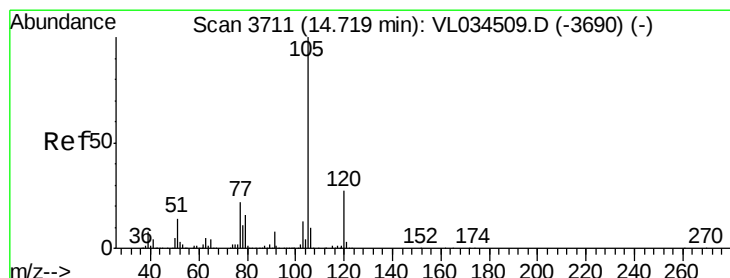
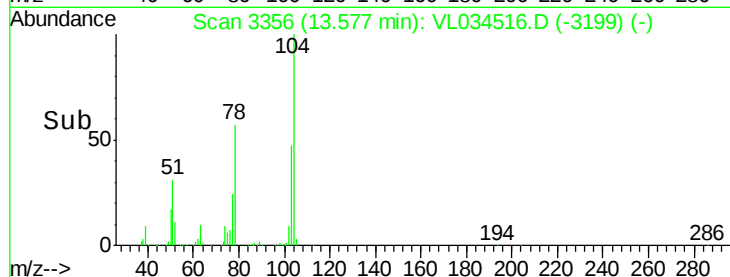
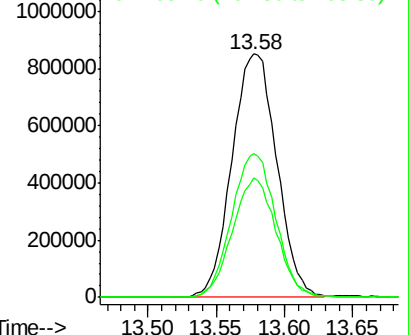
103 48.1 38.6 58.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.359 ppbv

RT: 14.72 min Scan# 3711

Delta R.T. 0.00 min

Lab File: VL034516.D

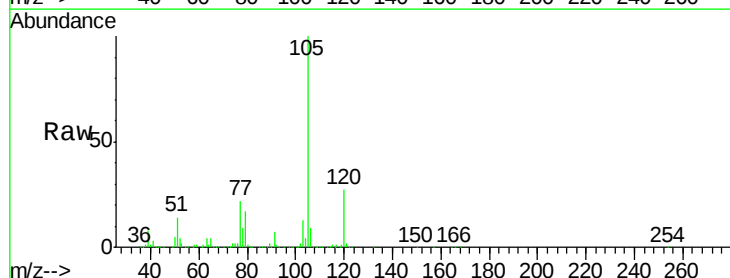
Acq: 30 Dec 2019 16:18

Tgt Ion:105 Resp: 3388801

Ion Ratio Lower Upper

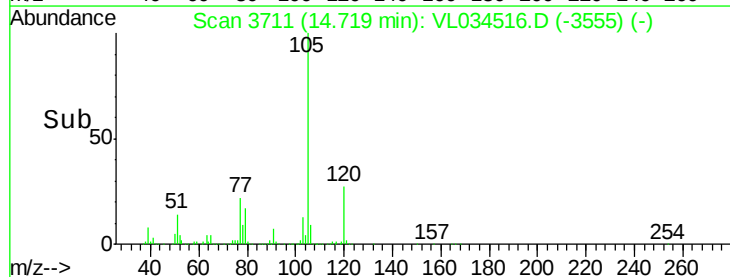
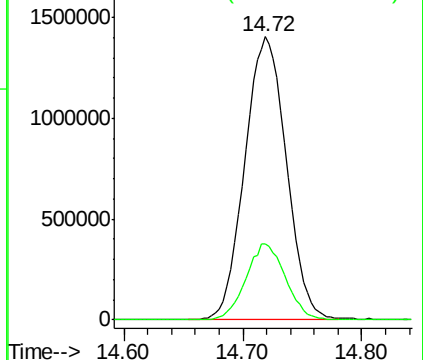
105 100

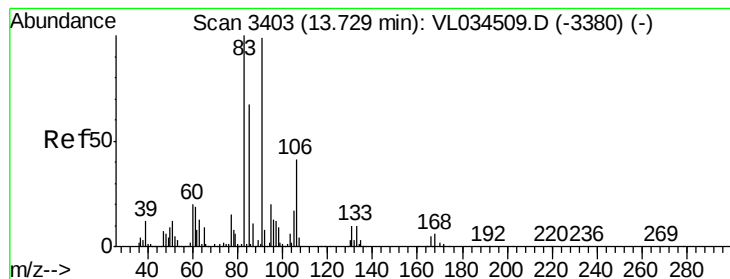
120 25.7 20.6 30.8



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: 8.118 ppbv

RT: 13.73 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

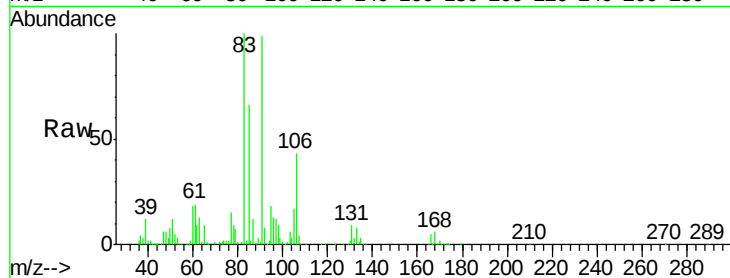
Tgt Ion: 83 Resp: 1802758

Ion Ratio Lower Upper

83 100

131 9.4 4.8 14.4

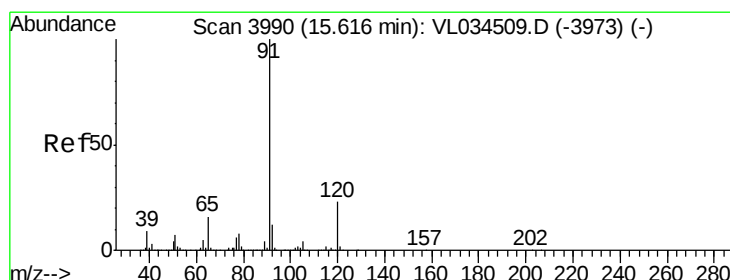
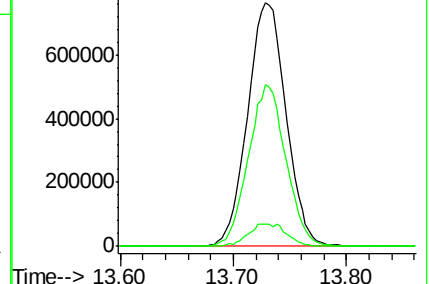
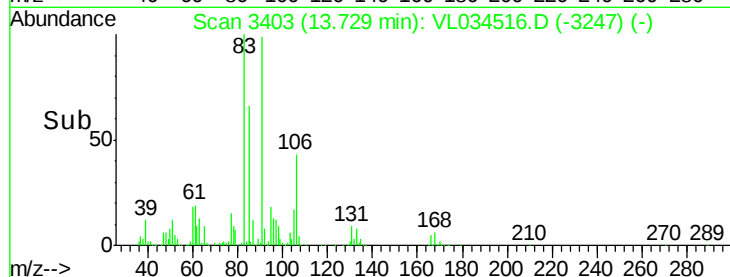
85 64.9 32.5 97.4



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: 9.516 ppbv

RT: 15.62 min Scan# 3990

Delta R.T. 0.00 min

Lab File: VL034516.D

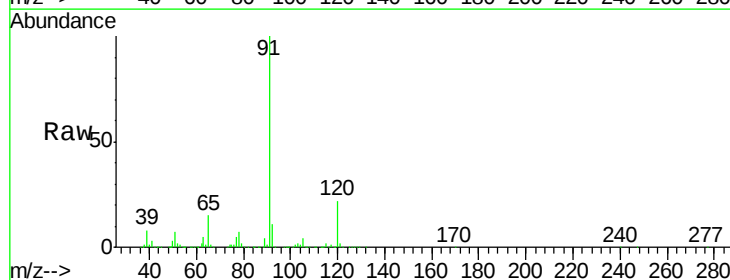
Acq: 30 Dec 2019 16:18

Tgt Ion: 120 Resp: 879881

Ion Ratio Lower Upper

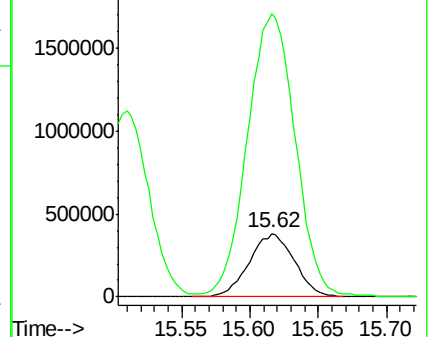
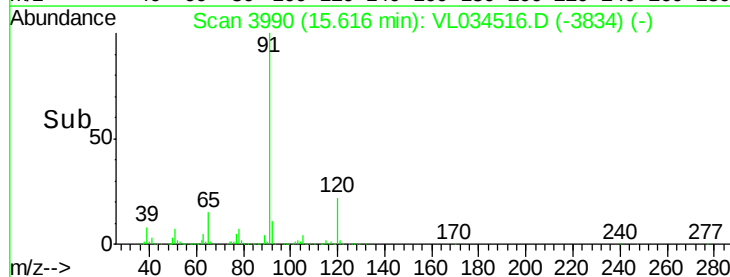
120 100

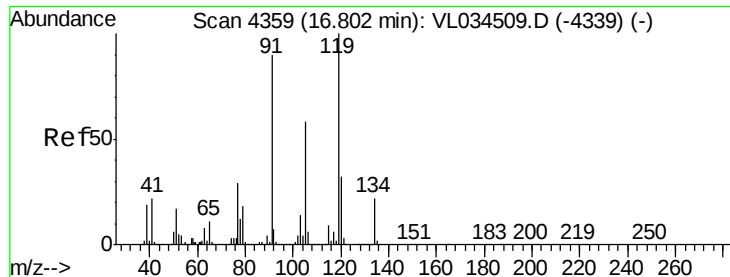
91 475.1 375.6 563.4



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.097 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

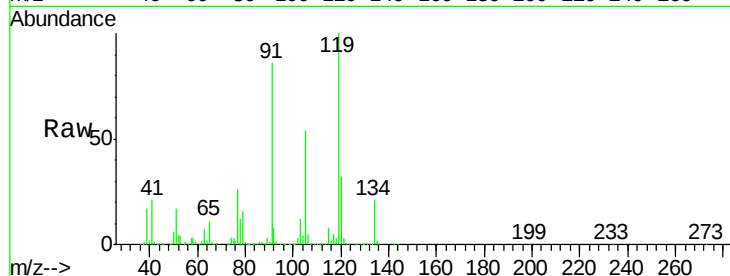
Tgt Ion: 119 Resp: 2975868

Ion Ratio Lower Upper

119 100

91 90.0 72.0 108.0

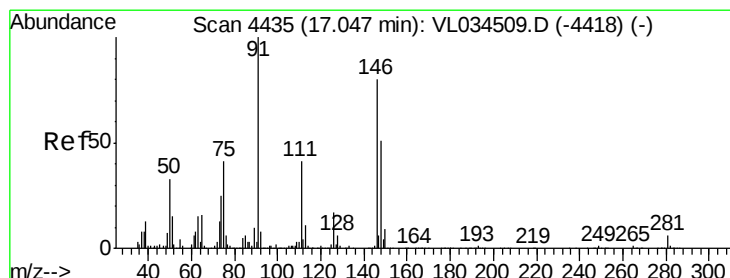
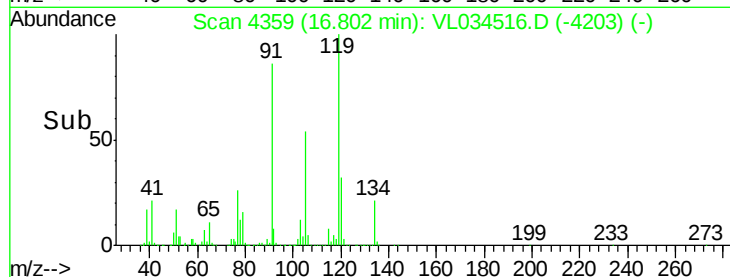
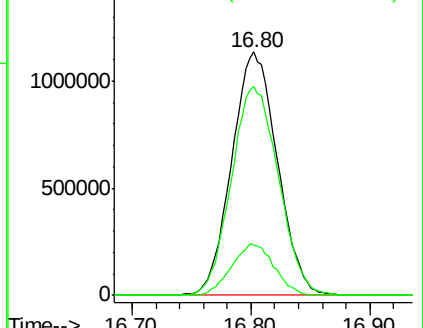
134 20.1 16.1 24.1



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: 10.394 ppbv

RT: 17.05 min Scan# 4435

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

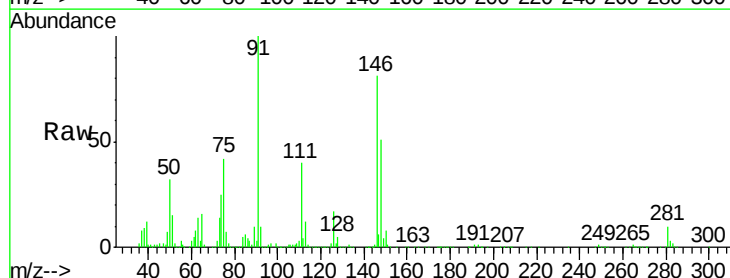
Tgt Ion: 91 Resp: 1490280

Ion Ratio Lower Upper

91 100

126 16.2 13.1 19.7

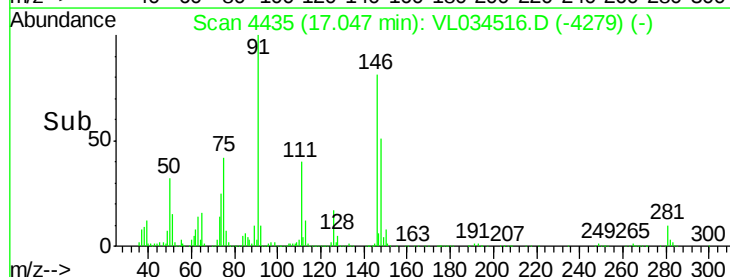
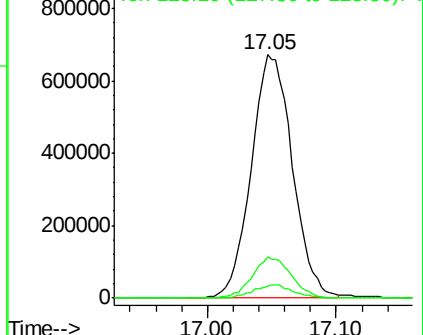
128 5.3 4.2 6.4

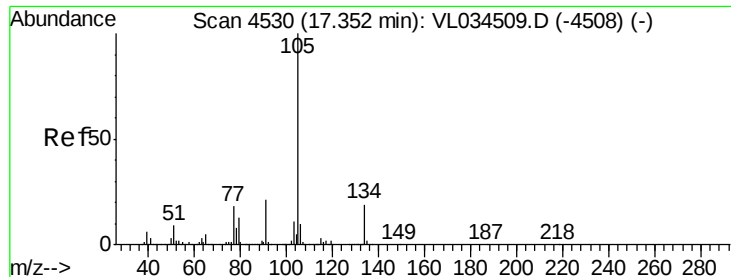


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.995 ppbv

RT: 17.35 min Scan# 4530

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

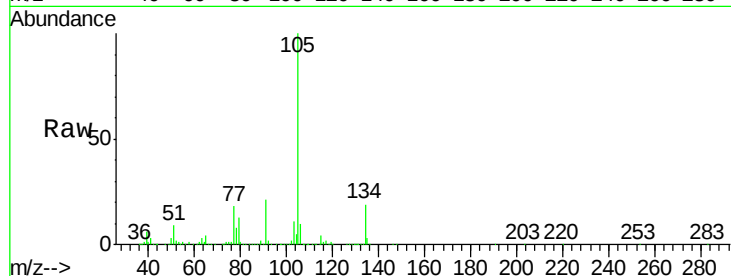
ICVVL123019

Tgt Ion: 105 Resp: 4132643

Ion Ratio Lower Upper

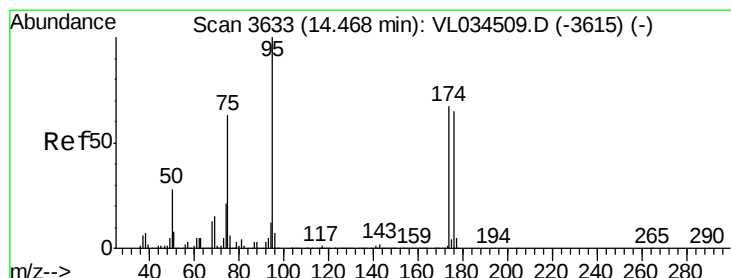
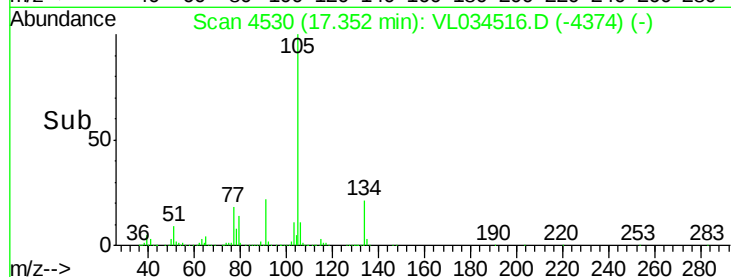
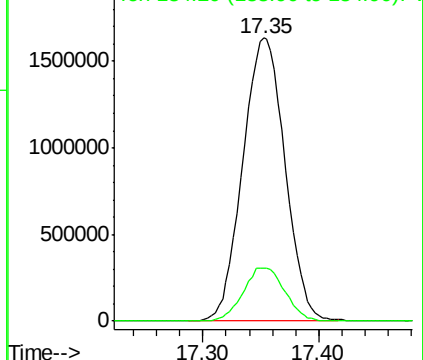
105 100

134 18.6 15.1 22.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.549 ppbv

RT: 14.47 min Scan# 3634

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

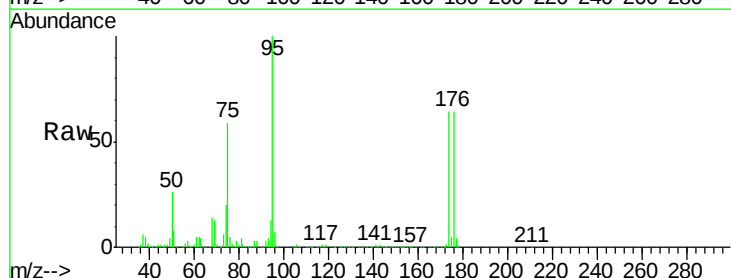
Tgt Ion: 95 Resp: 1863923

Ion Ratio Lower Upper

95 100

174 66.2 52.4 78.6

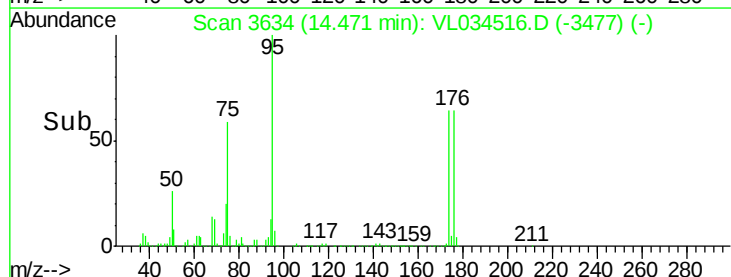
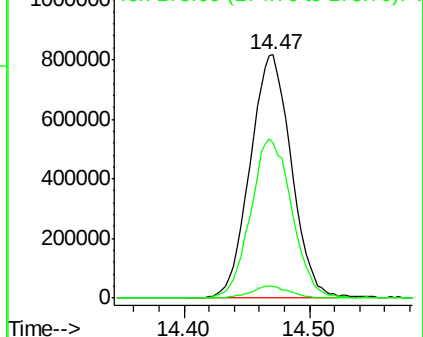
175 4.8 3.9 5.9

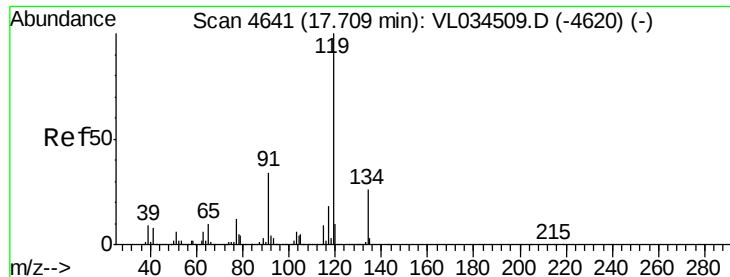


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

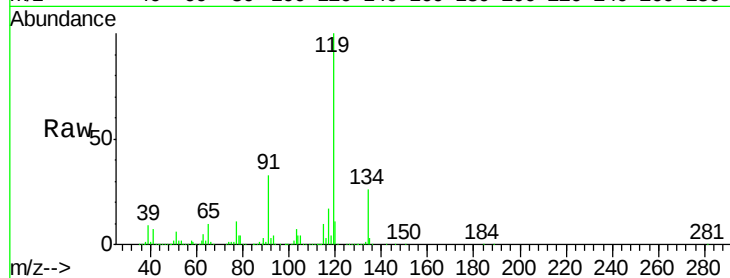




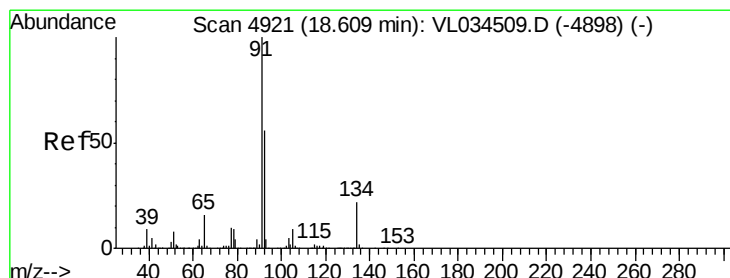
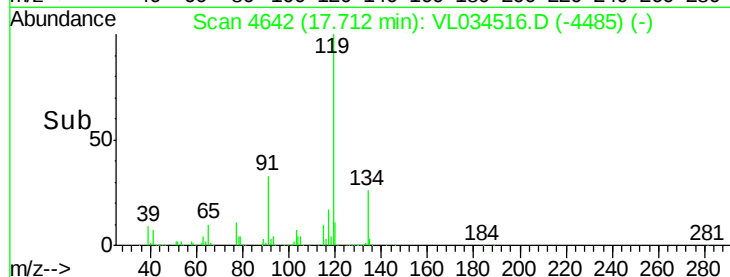
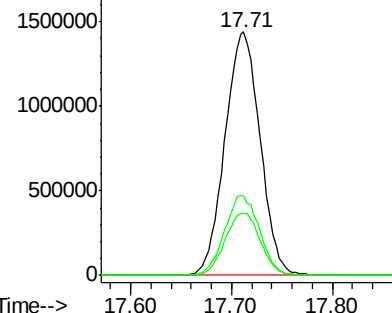
#69
 p-Isopropyltoluene
 Concen: 9.306 ppbv
 RT: 17.71 min Scan# 4642
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL123019

Tgt Ion: 119 Resp: 3467424
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.7 31.1
 91 32.7 26.6 39.8

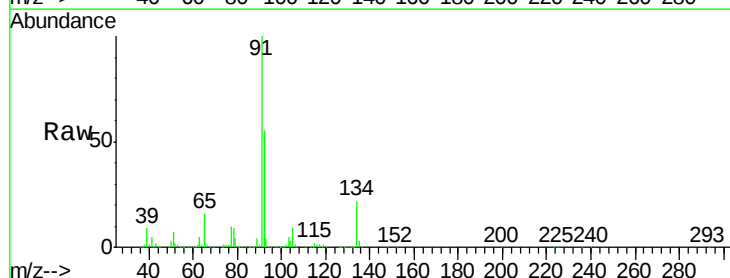


Abundance Ion 119.10 (118.80 to 119.80): V
 2000000 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

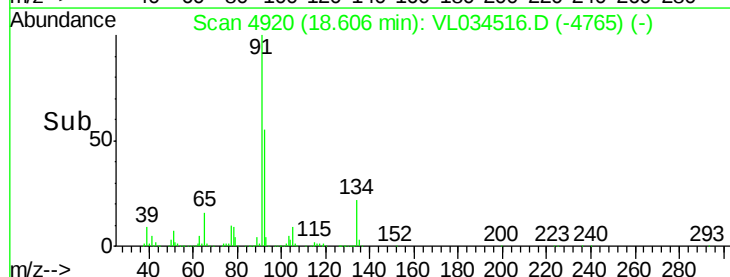
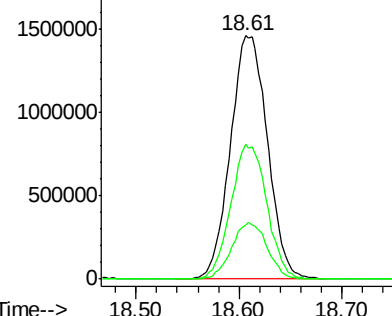


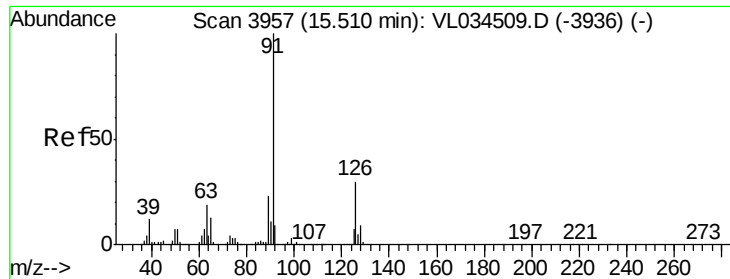
#70
 n-Butylbenzene
 Concen: 9.043 ppbv
 RT: 18.61 min Scan# 4920
 Delta R.T. -0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

Tgt Ion: 91 Resp: 3635619
 Ion Ratio Lower Upper
 91 100
 92 53.9 43.8 65.6
 134 22.3 18.0 27.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 2000000 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V

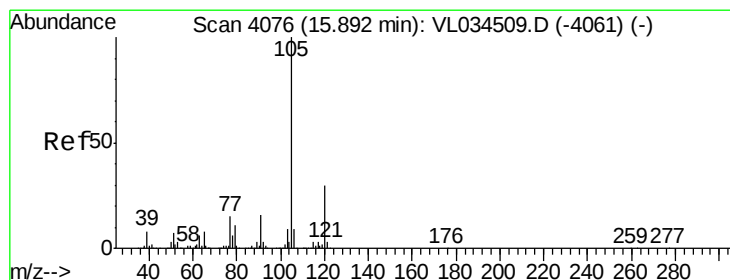
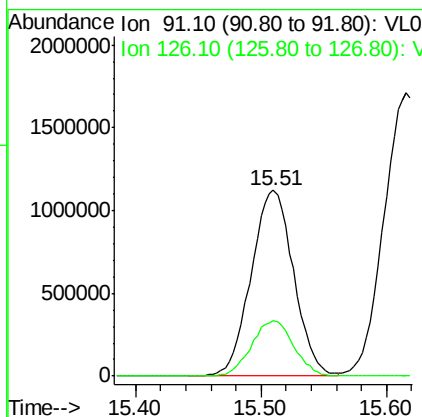
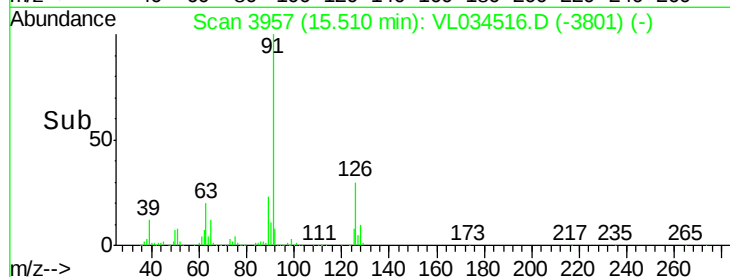
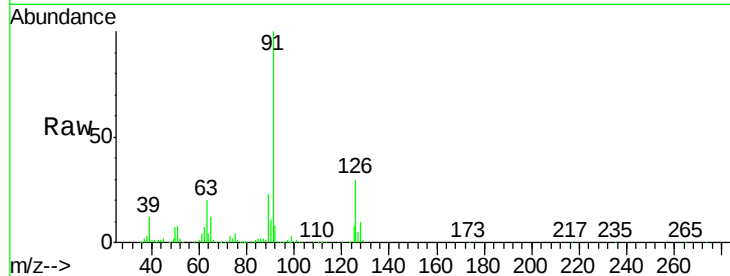




#71
 2-Chlorotoluene
 Concen: 9.409 ppbv
 RT: 15.51 min Scan# 3957
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

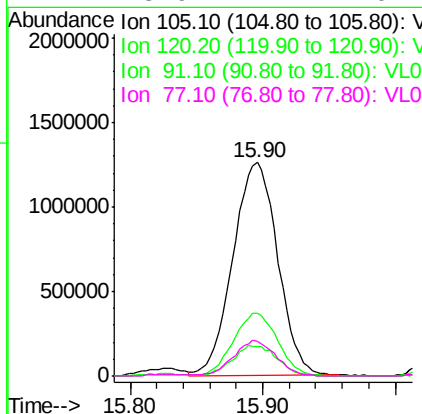
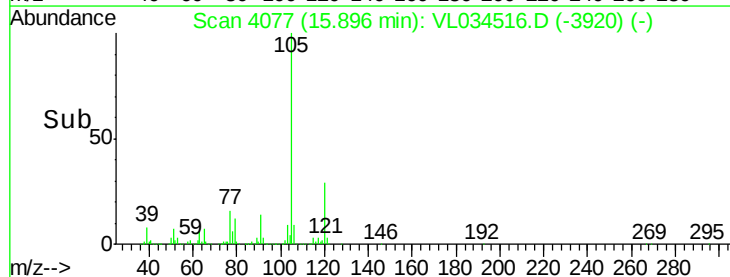
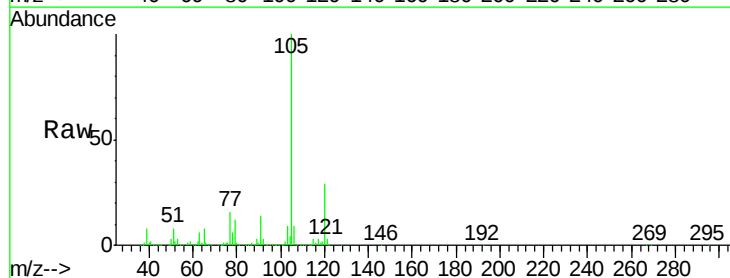
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL123019

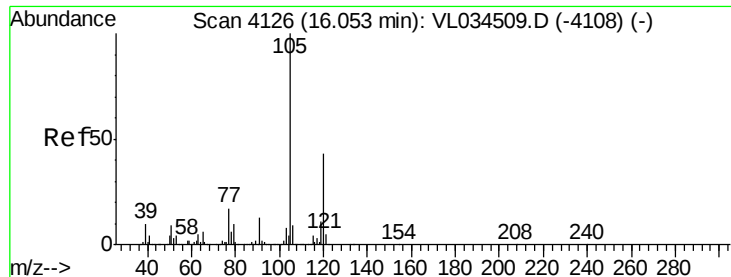
Tgt Ion: 91 Resp: 2645818
 Ion Ratio Lower Upper
 91 100
 126 29.9 12.0 47.8



#72
 4-Ethyltoluene
 Concen: 9.536 ppbv
 RT: 15.90 min Scan# 4077
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

Tgt Ion: 105 Resp: 2953841
 Ion Ratio Lower Upper
 105 100
 120 29.5 23.7 35.5
 91 14.2 11.5 17.3
 77 15.9 12.7 19.1





#73

1,3,5-Trimethylbenzene

Concen: 9.377 ppbv

RT: 16.05 min Scan# 4126

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

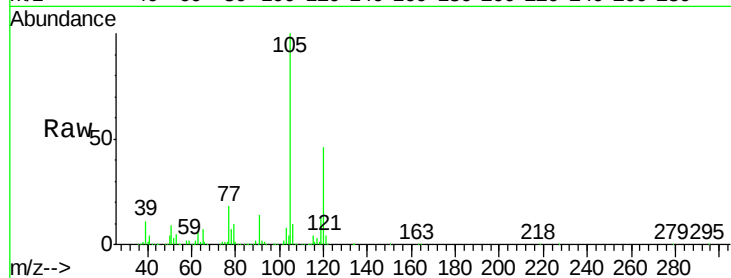
ICVVL123019

Tgt Ion:105 Resp: 2849773

Ion Ratio Lower Upper

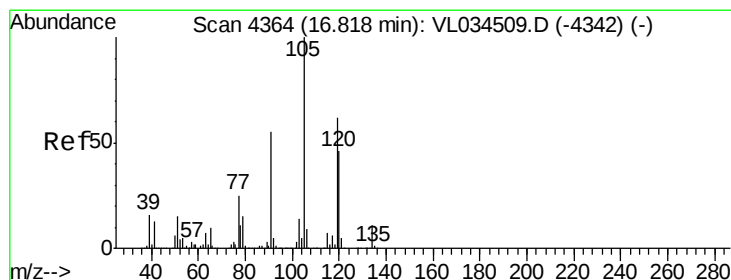
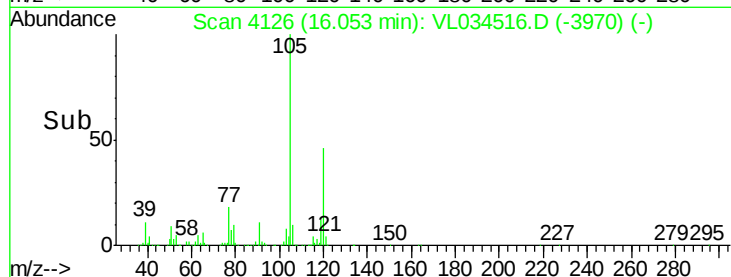
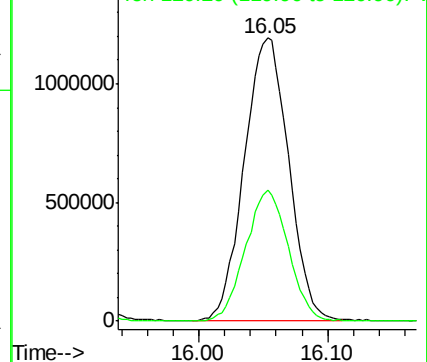
105 100

120 46.2 34.6 52.0



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: 8.976 ppbv

RT: 16.82 min Scan# 4366

Delta R.T. 0.01 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Tgt Ion:105 Resp: 2918000

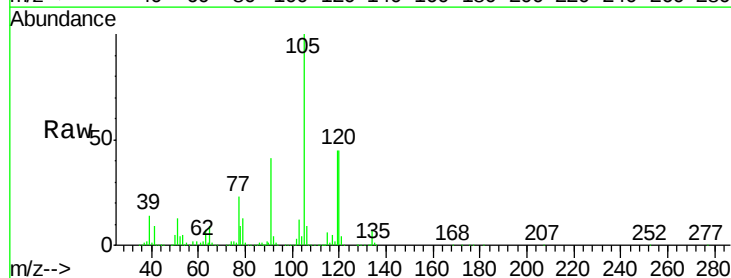
Ion Ratio Lower Upper

105 100

120 44.3 36.7 55.1

91 41.2 44.0 66.0#

77 22.7 19.9 29.9

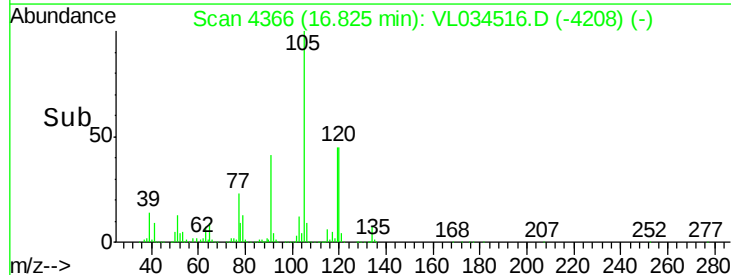
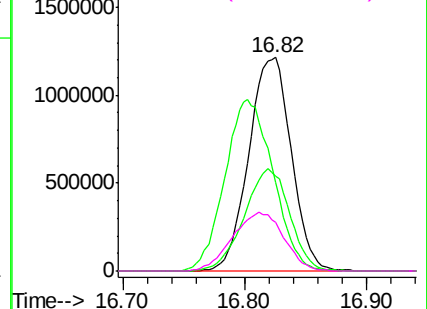


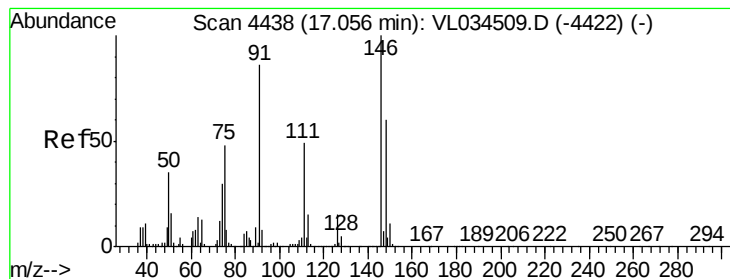
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.500 ppbv

RT: 17.06 min Scan# 4439

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

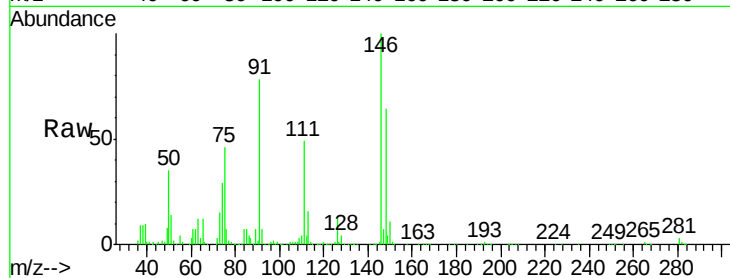
Tgt Ion:146 Resp: 1655135

Ion Ratio Lower Upper

146 100

111 49.0 25.1 75.3

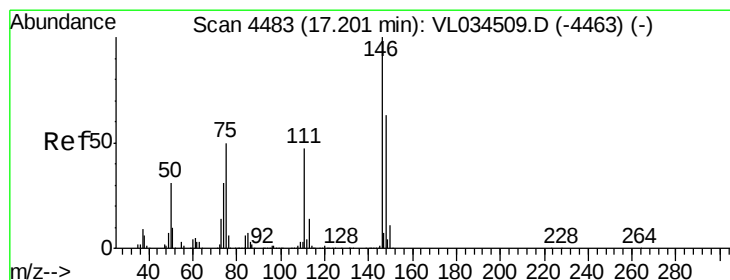
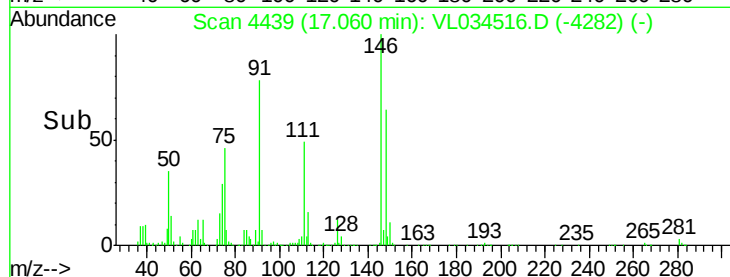
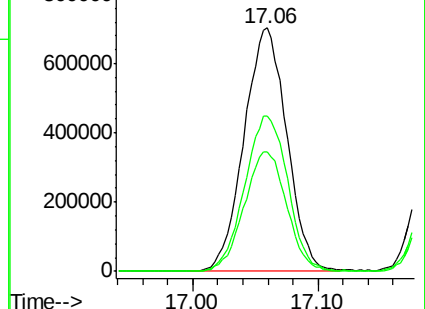
148 64.7 33.0 99.0



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



#76

1,4-Dichlorobenzene

Concen: 8.954 ppbv

RT: 17.20 min Scan# 4483

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

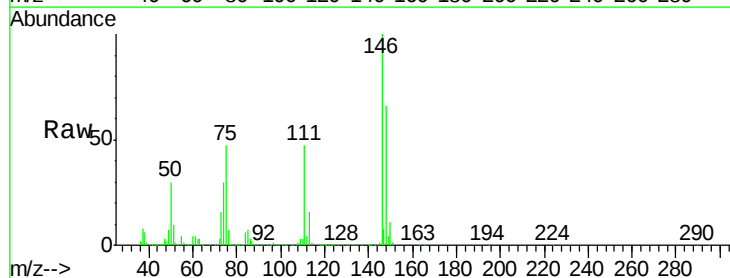
Tgt Ion:146 Resp: 1678633

Ion Ratio Lower Upper

146 100

111 47.1 23.5 70.6

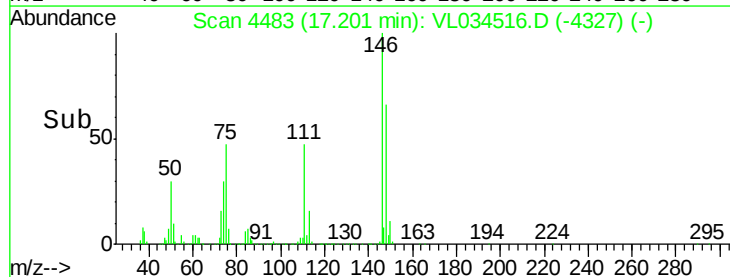
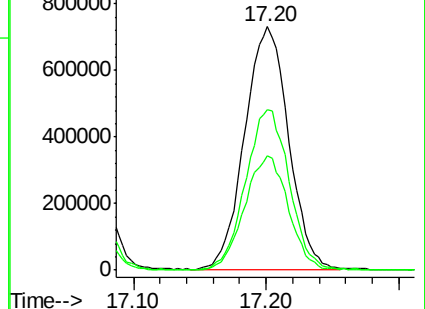
148 66.0 32.1 96.3

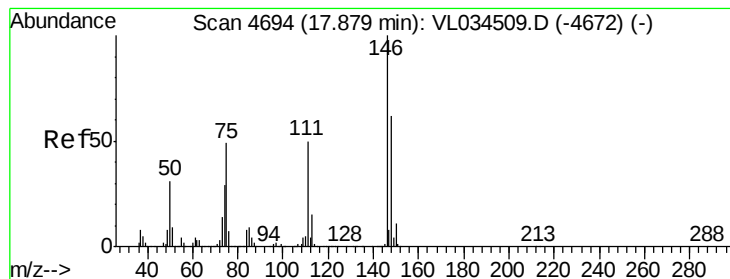


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.788 ppbv

RT: 17.88 min Scan# 4695

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

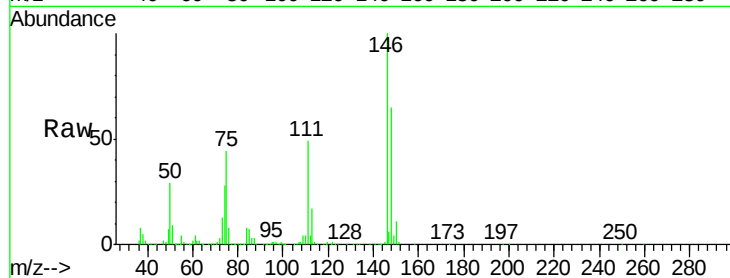
Tgt Ion:146 Resp: 1608078

Ion Ratio Lower Upper

146 100

111 49.6 25.3 75.8

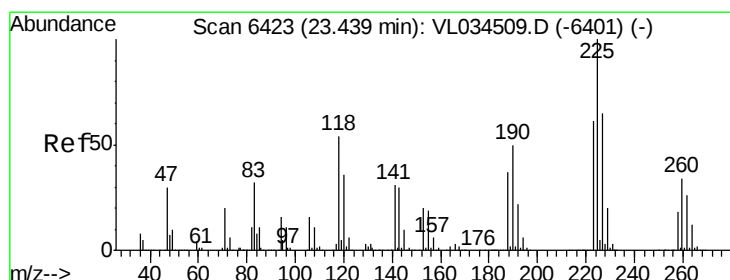
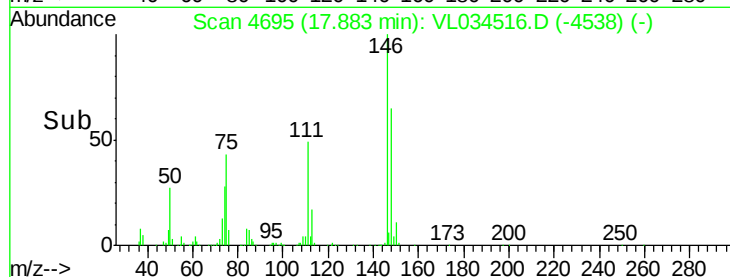
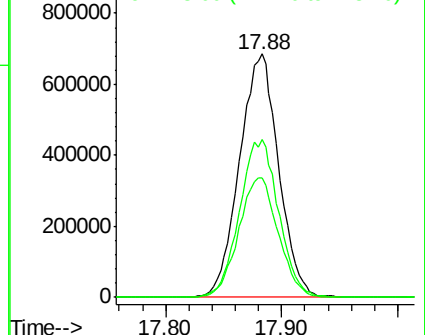
148 64.7 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.832 ppbv

RT: 23.44 min Scan# 6423

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

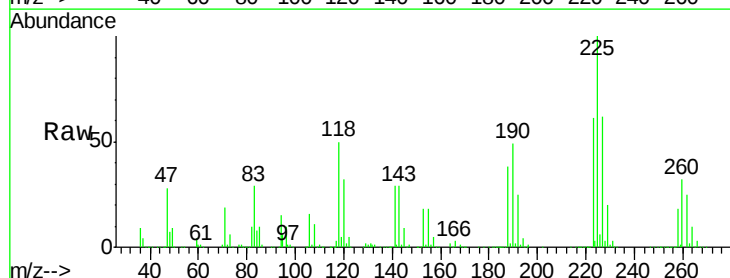
Tgt Ion:225 Resp: 1534191

Ion Ratio Lower Upper

225 100

223 62.7 51.0 76.6

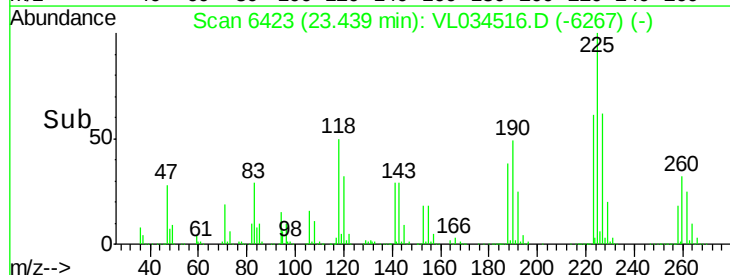
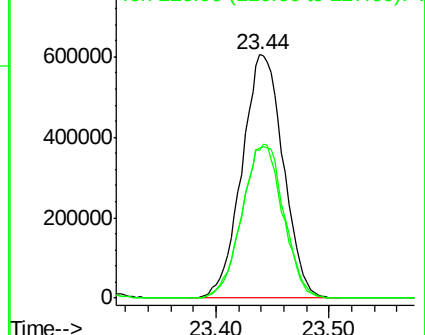
227 64.2 51.8 77.6

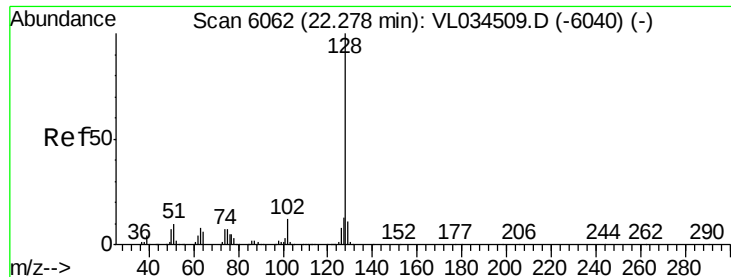


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.251 ppbv

RT: 22.28 min Scan# 6063

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL123019

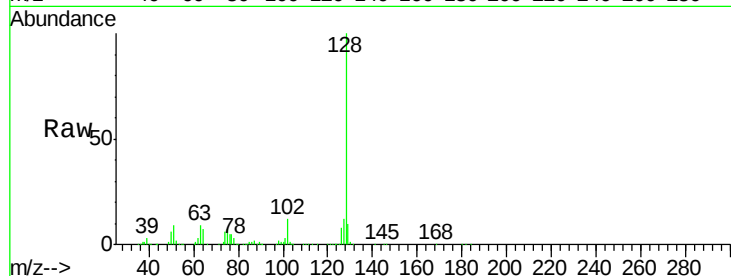
Tgt Ion:128 Resp: 2754944

Ion Ratio Lower Upper

128 100

127 12.4 10.6 15.8

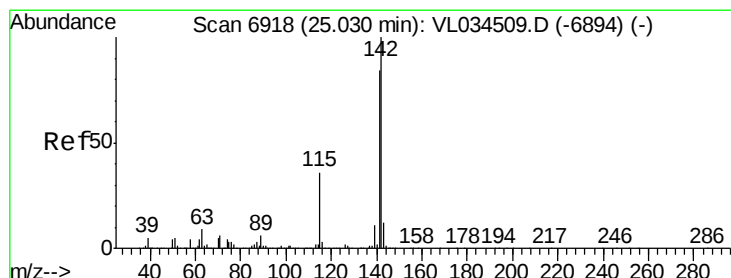
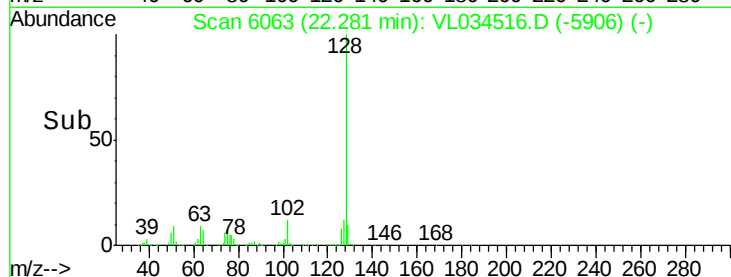
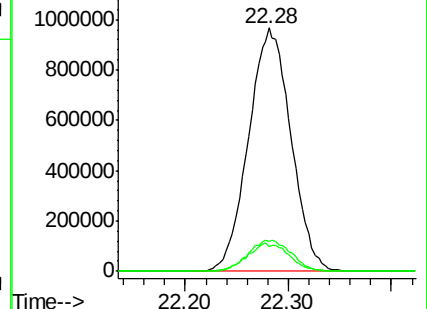
129 10.4 8.7 13.1



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: 22.559 ppbv

RT: 25.03 min Scan# 6918

Delta R.T. 0.00 min

Lab File: VL034516.D

Acq: 30 Dec 2019 16:18

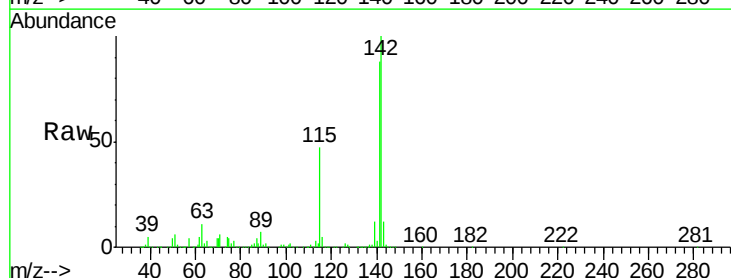
Tgt Ion:142 Resp: 1530233

Ion Ratio Lower Upper

142 100

141 84.5 65.8 98.8

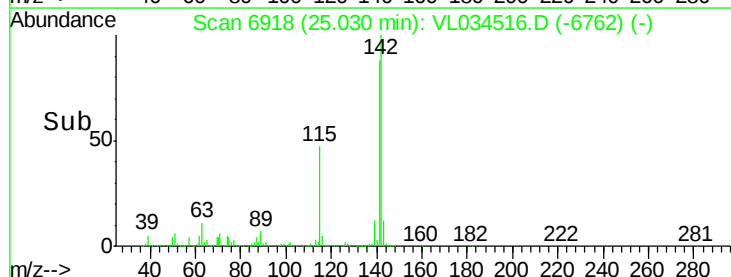
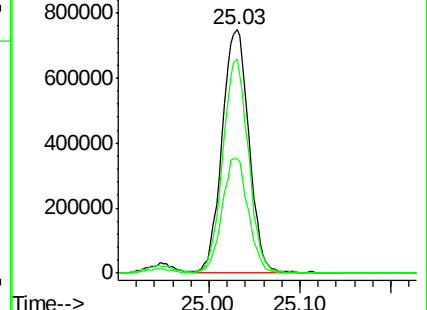
115 46.4 30.4 45.6#

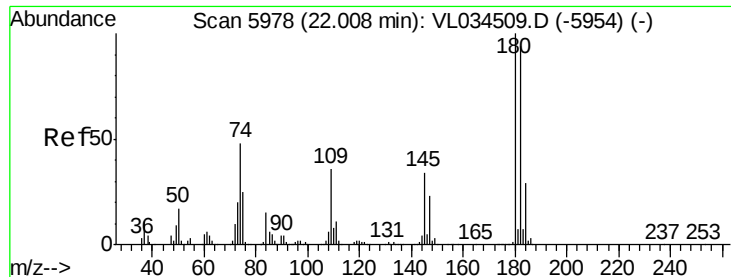


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

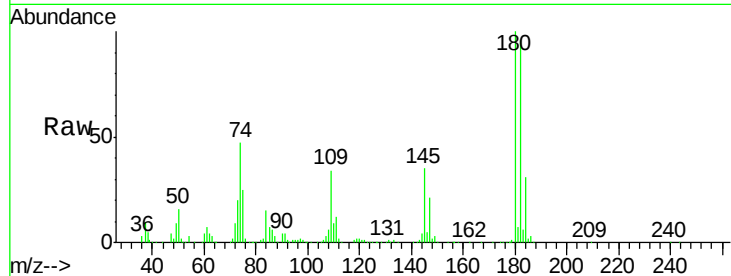




#81
 1,2,4-Trichlorobenzene
 Concen: 10.284 ppbv
 RT: 22.01 min Scan# 5979
 Delta R.T. 0.00 min
 Lab File: VL034516.D
 Acq: 30 Dec 2019 16:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL123019

Tgt Ion:180 Resp: 1639732
 Ion Ratio Lower Upper
 180 100
 182 96.3 77.8 116.8
 184 31.2 25.2 37.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

