

Data File : VL034380.D

Acq On : 19 Nov 2019 13:42

Operator : SY/AP

Sample : VSTDIC015

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Nov 19 14:13:15 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 12:55:12 2019

QLast Update : Tue Nov 19 12:55:12 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1027820	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2126139	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2214050	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1869743	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.02	85	1798460	10.150	ppbv	98
3) Chlorodifluoromethane	2.96	51	1665237	13.823	ppbv	98
4) Chloromethane	3.11	50	1011843	14.199	ppbv	93
5) Vinyl Chloride	3.23	62	943414	13.884	ppbv	96
6) Bromomethane	3.46	94	502538	15.104	ppbv	99
7) Chloroethane	3.54	64	351162	14.684	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	2046386	13.328	ppbv	96
9) Propene	2.98	41	773695	14.488	ppbv	99
10) Heptane	8.16	43	2043075	14.906	ppbv	99
11) Trichlorofluoromethane	3.94	101	2346301	13.947	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1615724	14.660	ppbv	99
13) Ethanol	3.59	45	166336	13.911	ppbv	97
14) Bromoethene	3.73	108	689340	15.886	ppbv	99
15) Acetone	3.84	43	1781184	12.116	ppbv	100
16) 1,3-Butadiene	3.30	39	888470	14.874	ppbv	97
17) tert-Butyl alcohol	4.29	59	1611892	17.179	ppbv	99
18) 1,1-Dichloroethene	4.28	96	721516	14.951	ppbv	94
19) Isopropyl Alcohol	3.96	45	1291085	15.743	ppbv	100
20) Methylene Chloride	4.34	84	653012	12.287	ppbv	97
21) Allyl Chloride	4.41	41	1267147	15.591	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	756578	15.718	ppbv	99
23) Vinyl Acetate	5.08	43	2737406	14.910	ppbv #	99
24) 1,1-Dichloroethane	5.02	63	1953773	14.339	ppbv	99
25) Ethyl Acetate	5.69	43	3421267	13.784	ppbv	99
26) Hexane	5.70	57	1483114	14.020	ppbv	98
27) Carbon Disulfide	4.55	76	1884126	17.155	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	2490813	15.557	ppbv	100
29) Chloroform	5.77	83	2402520	14.357	ppbv	96
30) Cyclohexane	7.16	84	1239707	15.934	ppbv	93
31) cis-1,2-Dichloroethene	5.56	61	1651924	15.386	ppbv	95
32) 1,1,1-Trichloroethane	6.54	97	2400175	14.749	ppbv	99
34) 2-Butanone	5.25	43	2341344	13.473	ppbv	98
35) Carbon Tetrachloride	7.05	117	2481446	13.399	ppbv	99
36) Benzene	6.92	78	2874539	14.091	ppbv	98
37) 1,2-Dichloroethane	6.33	62	2078809	13.673	ppbv	99
38) Trichloroethene	7.87	130	1135029	13.865	ppbv	94
39) 1,2-Dichloropropane	7.65	63	1215789	13.841	ppbv	98
40) 1,4-Dioxane	7.86	88	430214	13.937	ppbv	93
41) Tetrahydrofuran	6.07	42	1385379	14.364	ppbv	96
42) Bromodichloromethane	7.83	83	2682559	14.406	ppbv	98
43) Methyl Methacrylate	8.05	69	1271018	15.065	ppbv	97

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 12:55:12 2019
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Response via : Initial Calibration

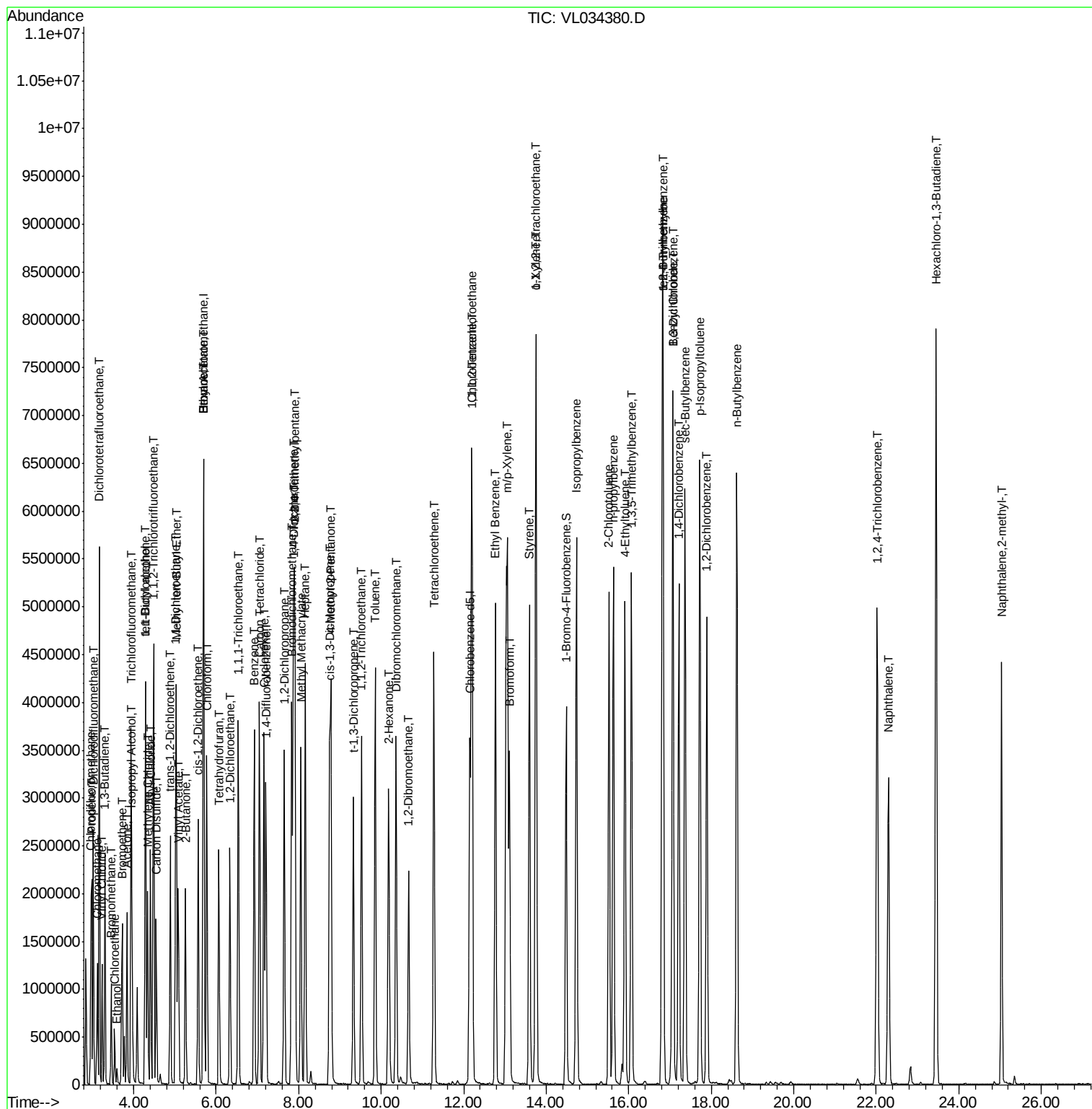
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	4933047	13.065	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	1773223	17.250	ppbv	99
46) cis-1,3-Dichloropropene	8.75	75	1908884	16.164	ppbv	97
47) 1,1,2-Trichloroethane	9.53	97	1235782	13.889	ppbv	96
48) Dibromochloromethane	10.36	129	2239753	15.346	ppbv	99
49) Bromoform	13.11	173	2044283	15.807	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	3423409	13.760	ppbv	97
51) 2-Hexanone	10.18	43	3002348	14.721	ppbv	98
52) Tetrachloroethene	11.28	164	1105628	13.827	ppbv	95
53) Toluene	9.86	91	3342234	14.846	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1894226	14.364	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.19	131	1467572	14.383	ppbv #	76
57) Chlorobenzene	12.21	112	2530205	13.698	ppbv	97
58) Ethyl Benzene	12.77	91	4538997	14.665	ppbv	96
59) m/p-Xylene	13.06	91	3667711	13.677	ppbv #	25
60) o-Xylene	13.75	91	3741912	14.013	ppbv	100
61) Styrene	13.59	104	2883479	15.338	ppbv	99
62) Isopropylbenzene	14.73	105	4881728	13.849	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	2672996	12.457	ppbv	99
64) n-propylbenzene	15.63	120	1335352	14.761	ppbv	91
65) tert-Butylbenzene	16.82	119	4361626	13.961	ppbv	99
66) Benzyl Chloride	17.06	91	2297463	18.619	ppbv	99
67) sec-Butylbenzene	17.36	105	5904454	13.430	ppbv	99
69) p-Isopropyltoluene	17.72	119	4990776	13.924	ppbv	99
70) n-Butylbenzene	18.62	91	5313118	13.624	ppbv	99
71) 2-Chlorotoluene	15.52	91	3952159	14.460	ppbv	99
72) 4-Ethyltoluene	15.91	105	4364936	14.542	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	4200604	14.124	ppbv	96
74) 1,2,4-Trimethylbenzene	16.83	105	4247692	13.696	ppbv	94
75) 1,3-Dichlorobenzene	17.08	146	2509618	13.477	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	2532515	13.924	ppbv	100
77) 1,2-Dichlorobenzene	17.89	146	1385869	7.591	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.45	225	2178634	14.427	ppbv	99
79) Naphthalene	22.29	128	3970155	17.524	ppbv	98
80) Naphthalene,2-methyl-	25.04	142	2392402	36.532	ppbv	94
81) 1,2,4-Trichlorobenzene	22.02	180	2397547	16.203	ppbv	99

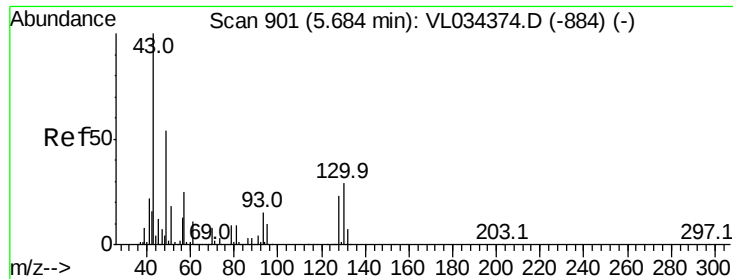
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

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VSTDIC015

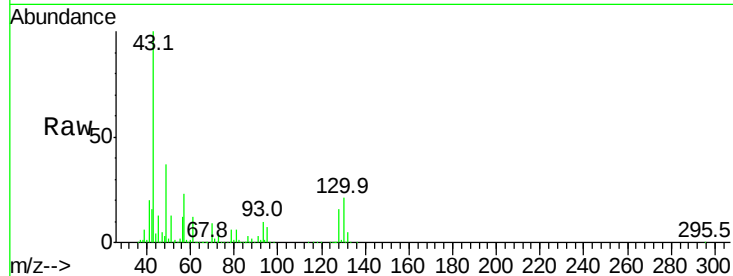
Tgt Ion: 49 Resp: 1027820

Ion Ratio Lower Upper

49 100

128 42.4 20.6 61.8

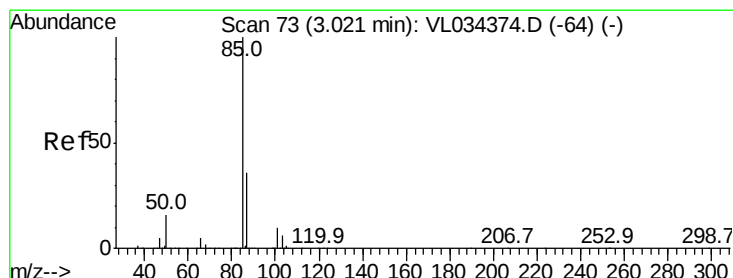
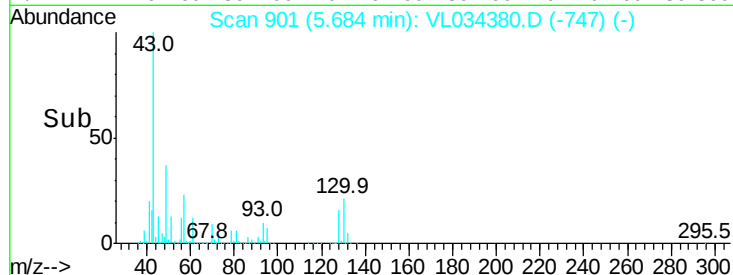
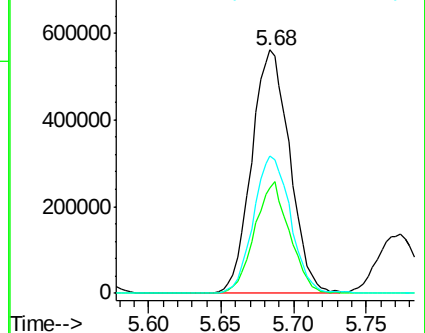
130 55.3 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 10.150 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.01 min

Lab File: VL034380.D

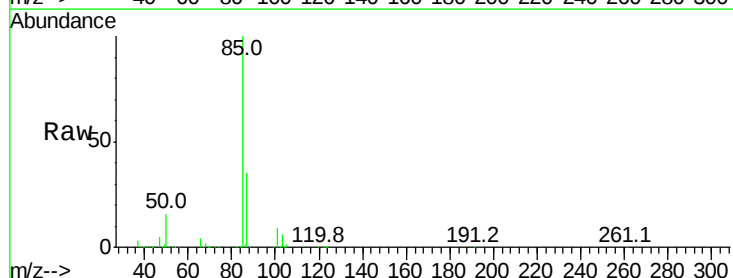
Acq: 19 Nov 2019 13:42

Tgt Ion: 85 Resp: 1798460

Ion Ratio Lower Upper

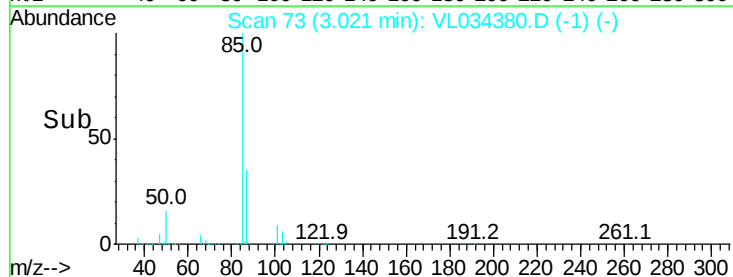
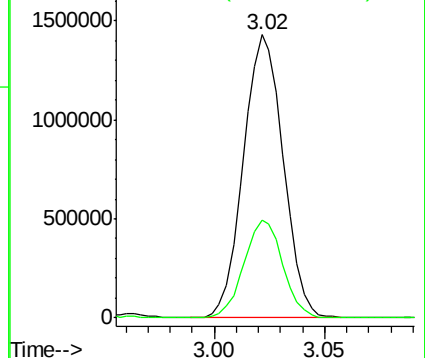
85 100

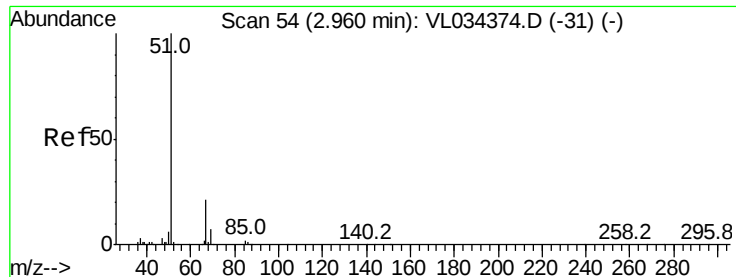
87 34.7 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.823 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL034380.D

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Instrument :

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ClientSampleId :

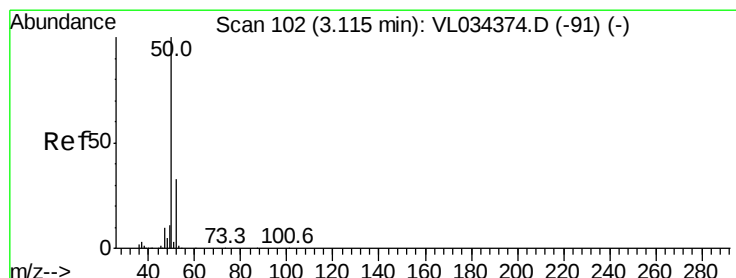
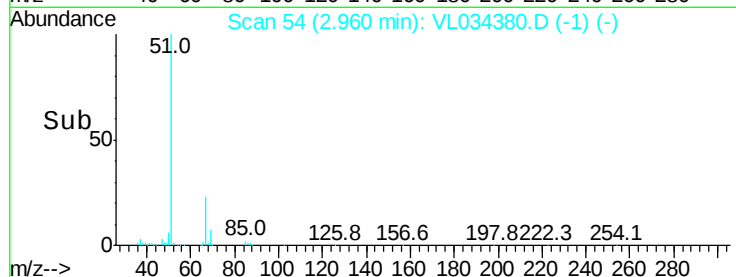
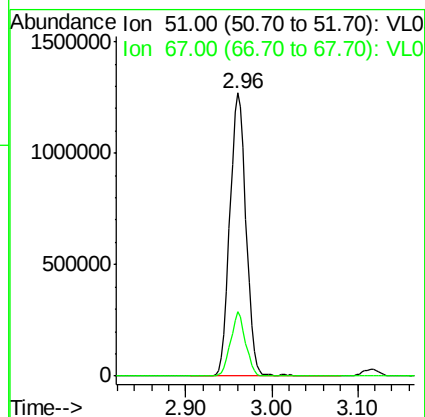
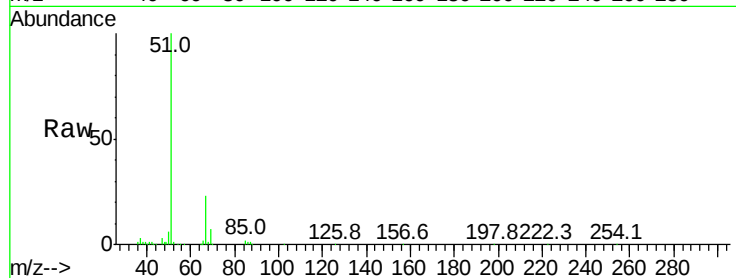
VSTDIC015

Tgt Ion: 51 Resp: 1665237

Ion Ratio Lower Upper

51 100

67 20.8 15.8 23.8



#4

Chloromethane

Concen: 14.199 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.01 min

Lab File: VL034380.D

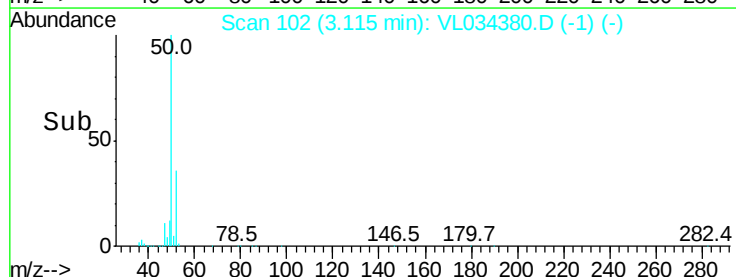
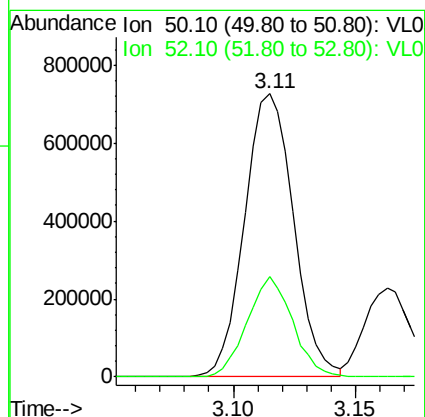
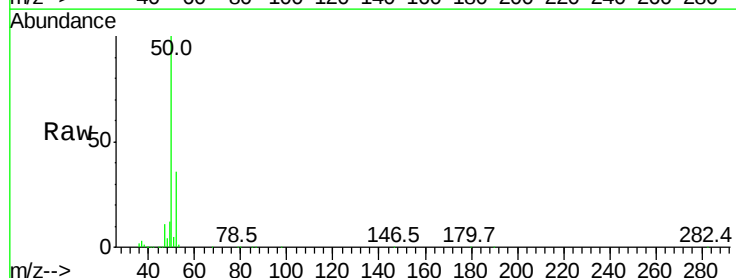
Acq: 19 Nov 2019 13:42

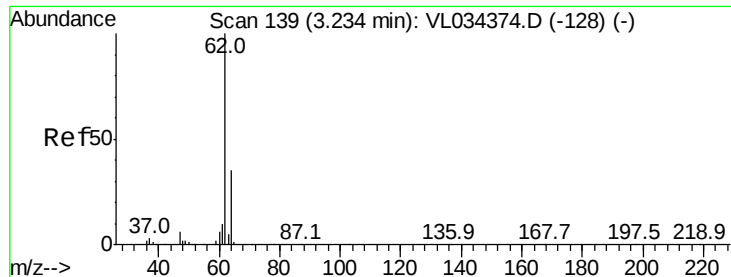
Tgt Ion: 50 Resp: 1011843

Ion Ratio Lower Upper

50 100

52 35.5 25.4 38.2





#5

Vinyl Chloride

Concen: 13.884 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

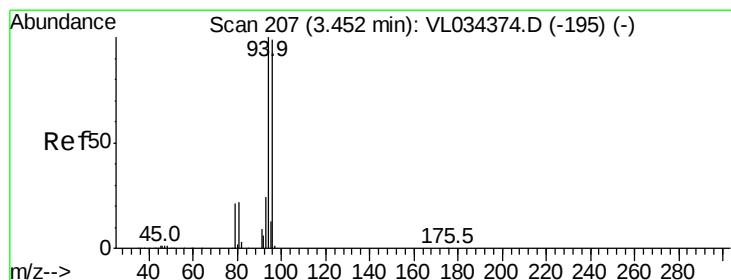
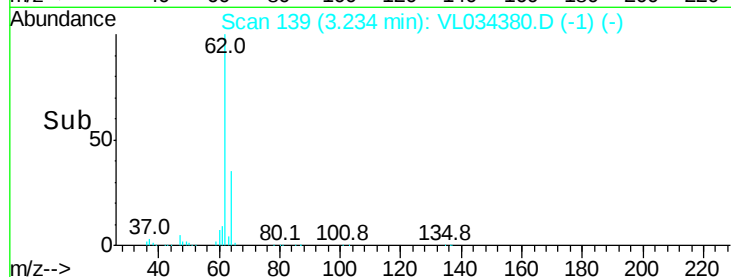
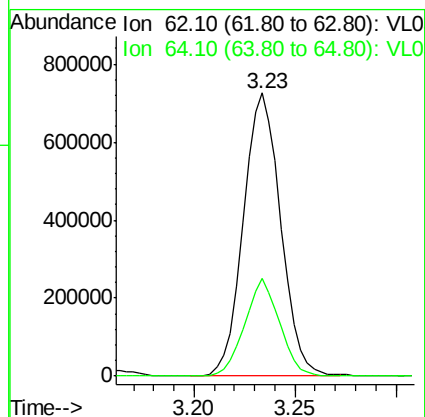
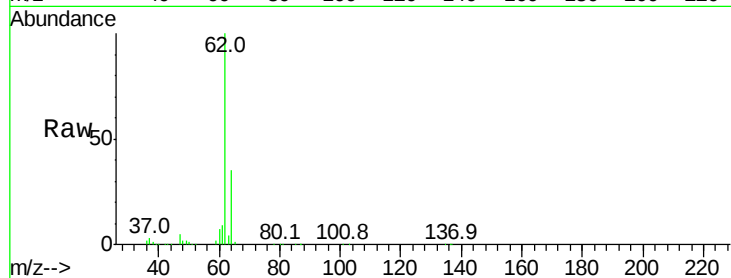
VSTDIC015

Tgt Ion: 62 Resp: 943414

Ion Ratio Lower Upper

62 100

64 34.5 26.0 39.0



#6

Bromomethane

Concen: 15.104 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

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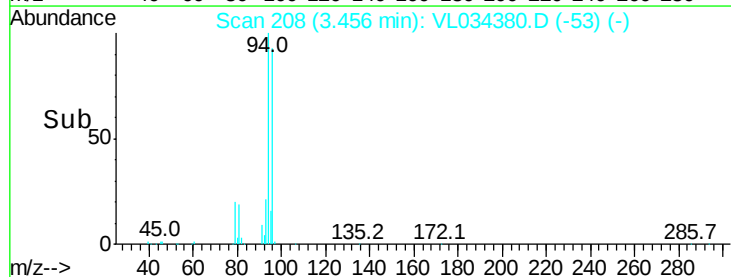
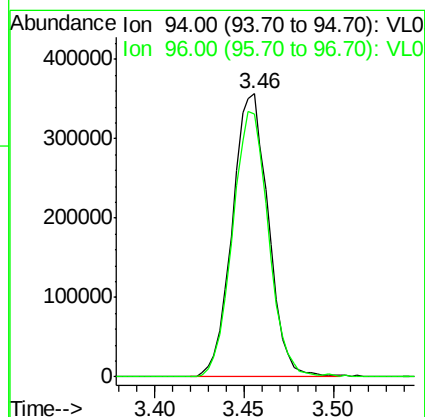
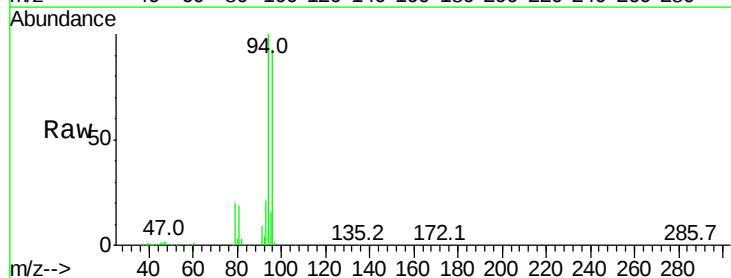
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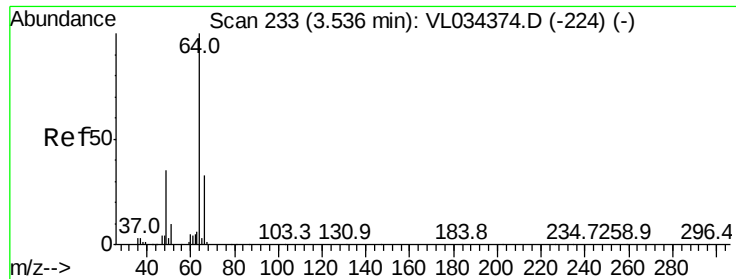
Tgt Ion: 94 Resp: 502538

Ion Ratio Lower Upper

94 100

96 92.7 74.6 112.0





#7

Chloroethane

Concen: 14.684 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL034380.D

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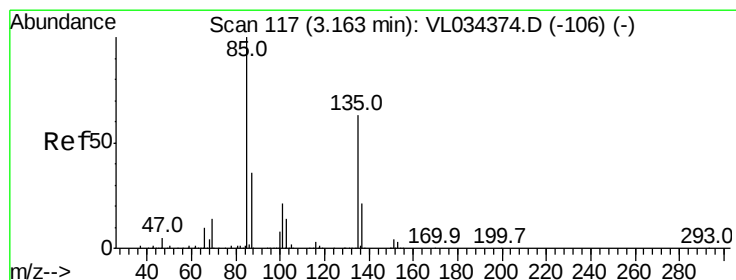
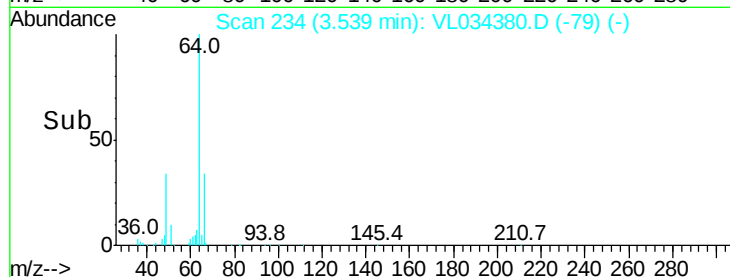
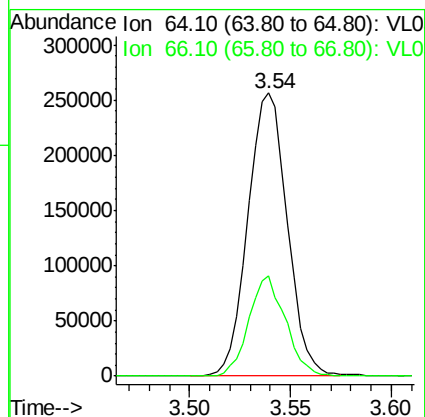
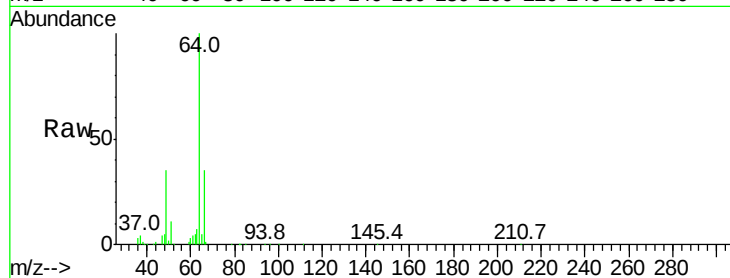
VSTDIC015

Tgt Ion: 64 Resp: 351162

Ion Ratio Lower Upper

64 100

66 35.4 25.4 38.0



#8

Dichlorotetrafluoroethane

Concen: 13.328 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.01 min

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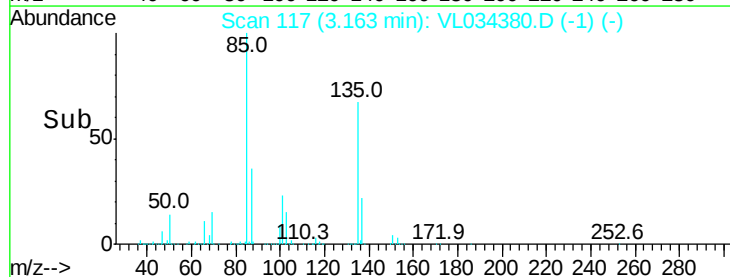
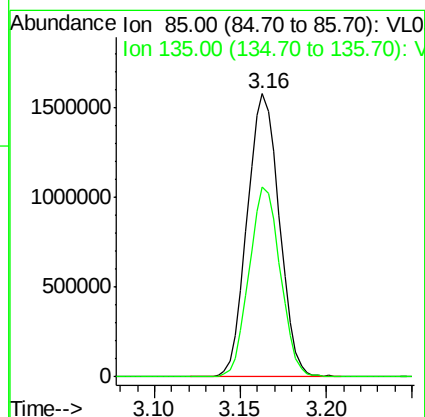
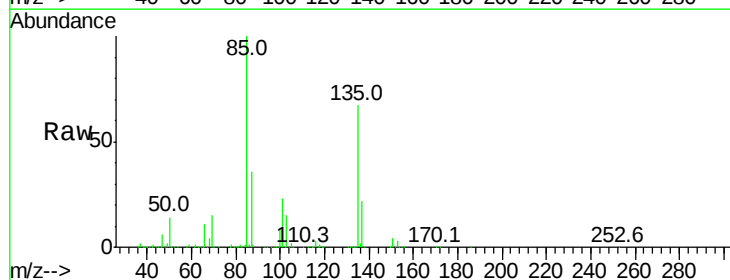
Acq: 19 Nov 2019 13:42

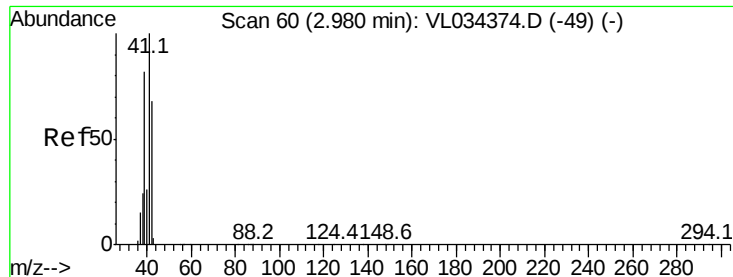
Tgt Ion: 85 Resp: 2046386

Ion Ratio Lower Upper

85 100

135 65.6 50.2 75.2





#9

Propene

Concen: 14.488 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

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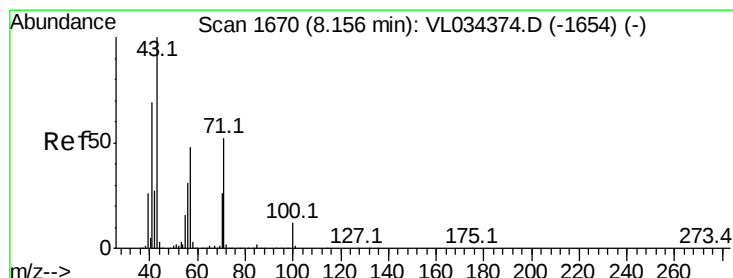
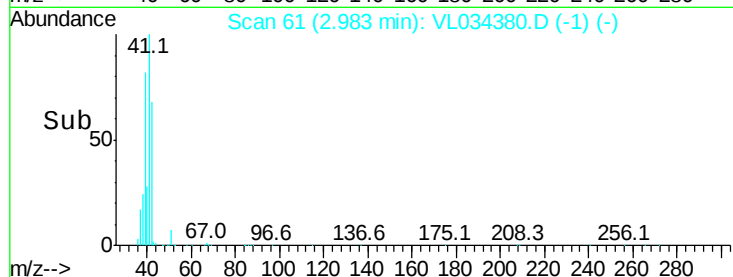
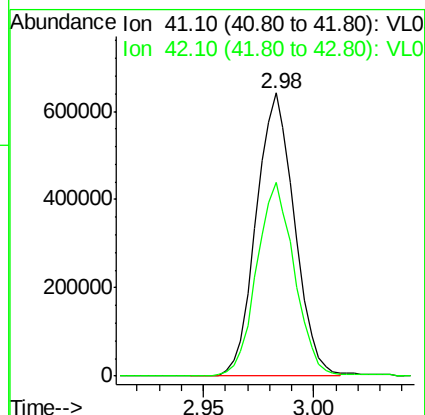
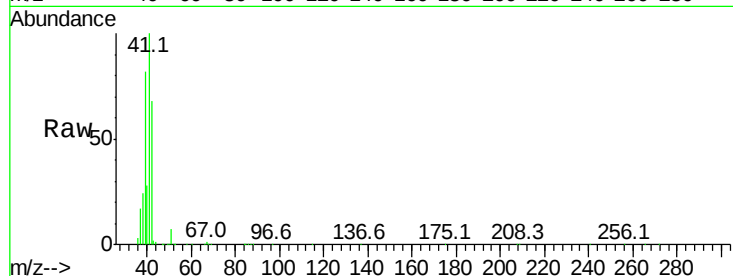
VSTDIC015

Tgt Ion: 41 Resp: 773695

Ion Ratio Lower Upper

41 100

42 68.5 53.9 80.9



#10

Heptane

Concen: 14.906 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. -0.01 min

Lab File: VL034380.D

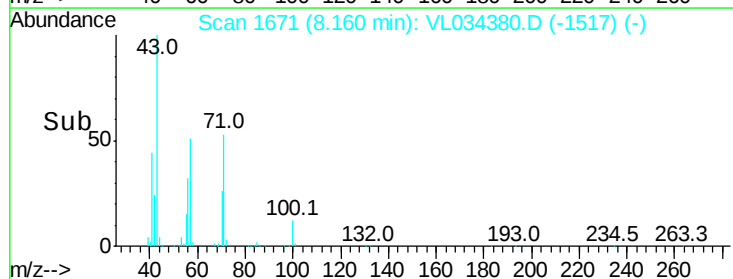
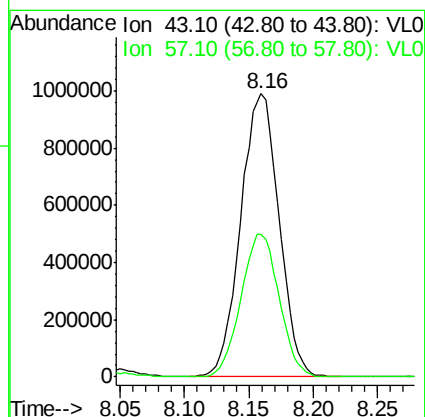
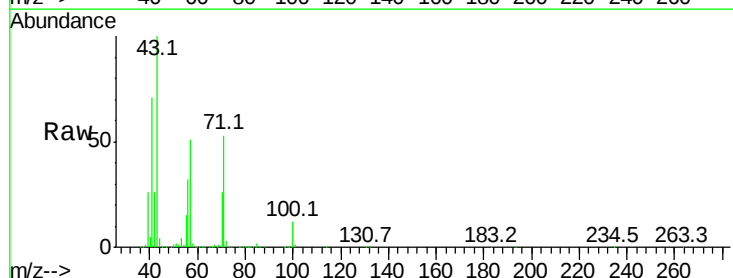
Acq: 19 Nov 2019 13:42

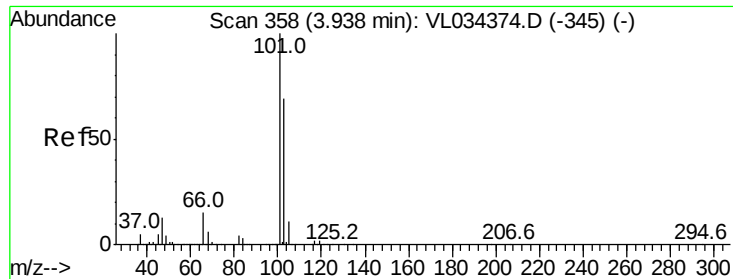
Tgt Ion: 43 Resp: 2043075

Ion Ratio Lower Upper

43 100

57 50.4 39.5 59.3





#11

Trichlorofluoromethane

Concen: 13.947 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

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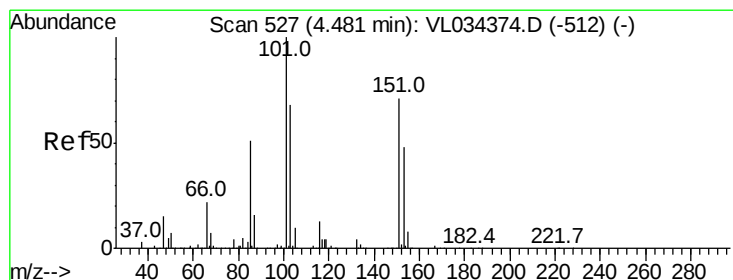
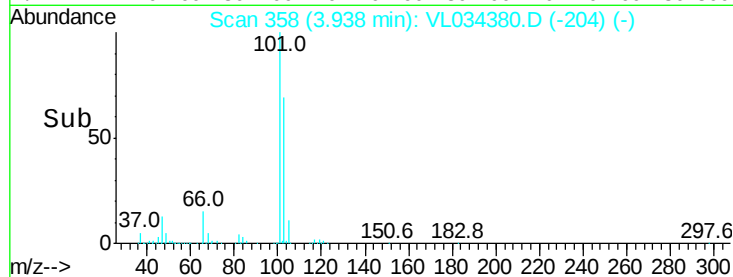
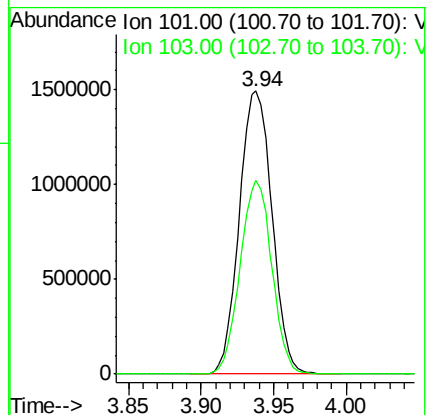
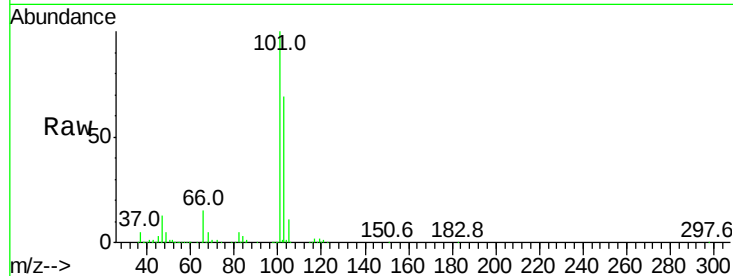
VSTDIC015

Tgt Ion:101 Resp: 2346301

Ion Ratio Lower Upper

101 100

103 68.5 54.5 81.7



#12

1,1,2-Trichlorotrifluoroethane

Concen: 14.660 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL034380.D

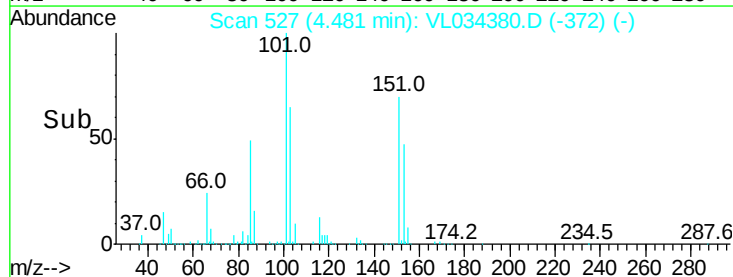
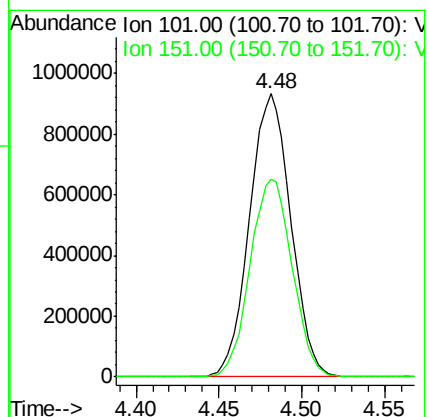
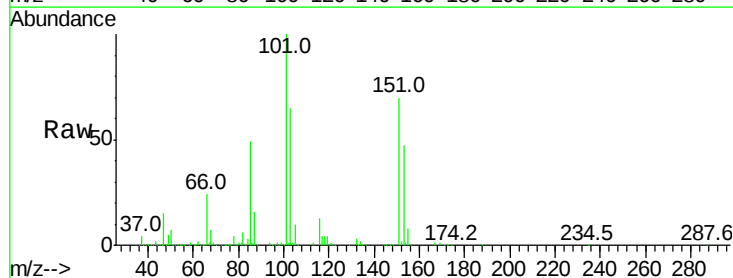
Acq: 19 Nov 2019 13:42

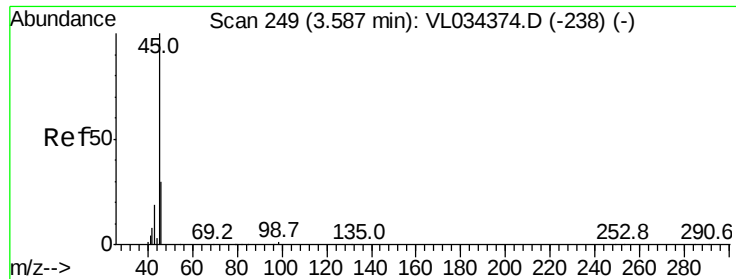
Tgt Ion:101 Resp: 1615724

Ion Ratio Lower Upper

101 100

151 71.2 57.4 86.2





#13

Ethanol

Concen: 13.911 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

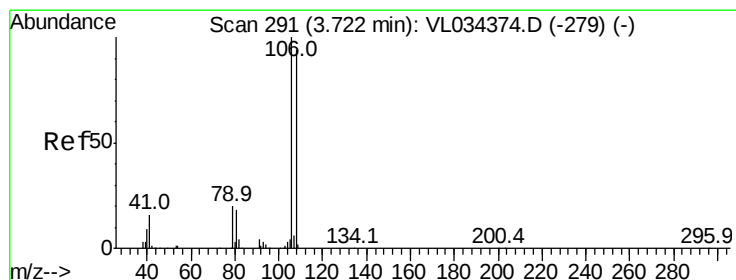
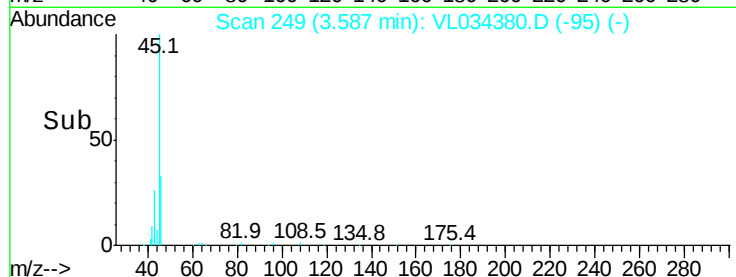
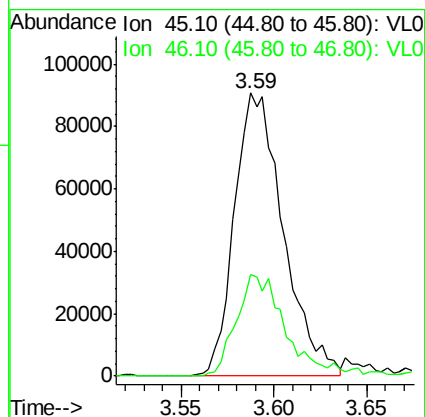
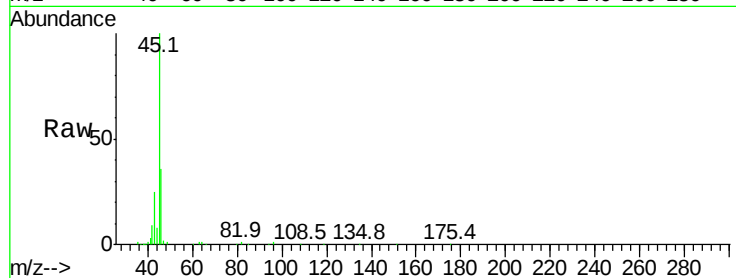
VSTDIC015

Tgt Ion: 45 Resp: 166336

Ion Ratio Lower Upper

45 100

46 37.6 15.8 63.2



#14

Bromoethene

Concen: 15.886 ppbv

RT: 3.73 min Scan# 292

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

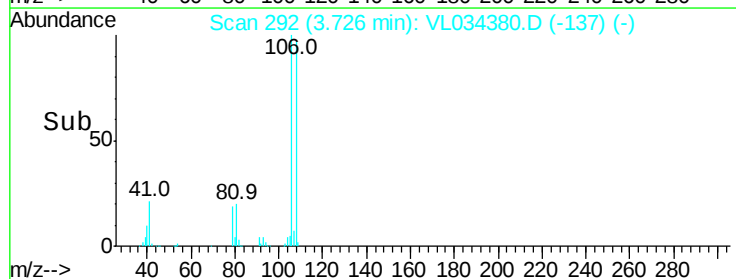
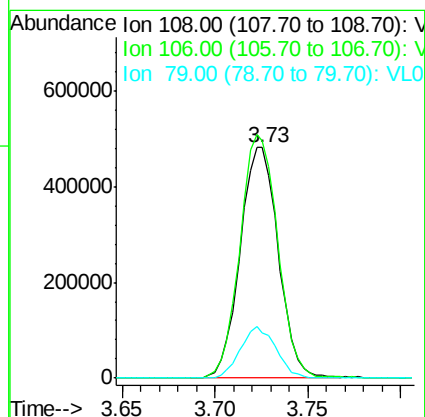
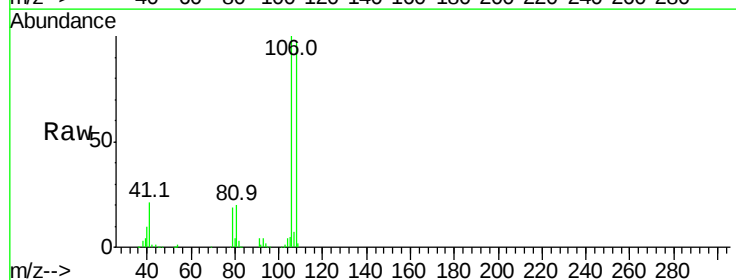
Tgt Ion: 108 Resp: 689340

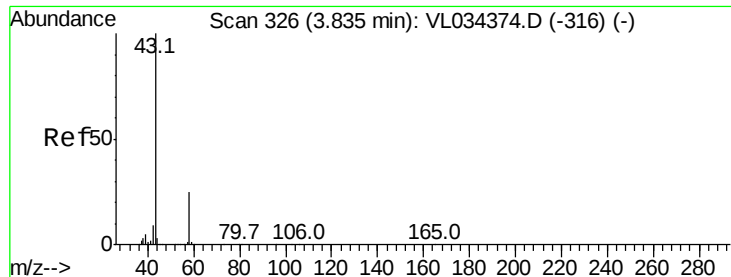
Ion Ratio Lower Upper

108 100

106 105.2 84.8 127.2

79 21.1 17.0 25.4





#15

Acetone

Concen: 12.116 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

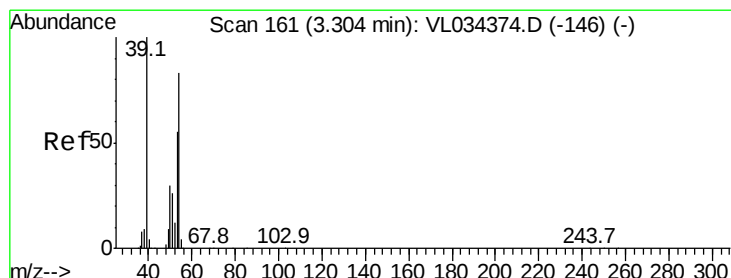
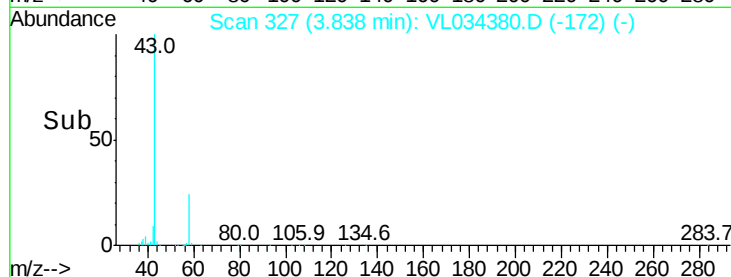
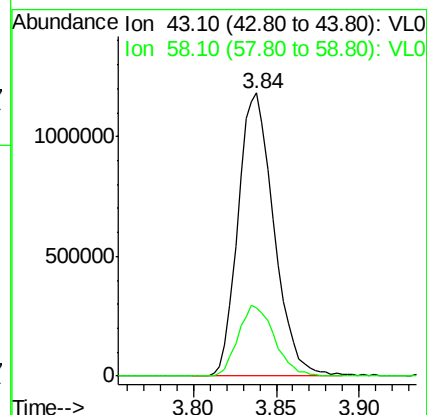
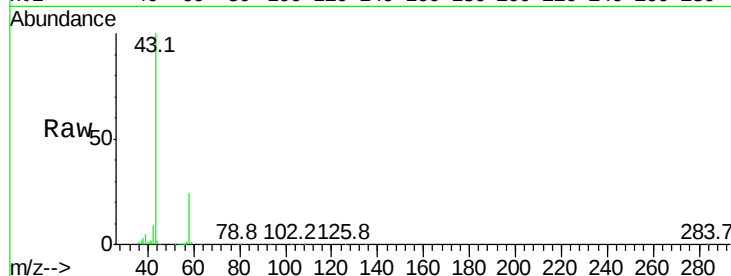
VSTDIC015

Tgt Ion: 43 Resp: 1781184

Ion Ratio Lower Upper

43 100

58 25.5 20.4 30.6



#16

1,3-Butadiene

Concen: 14.874 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.01 min

Lab File: VL034380.D

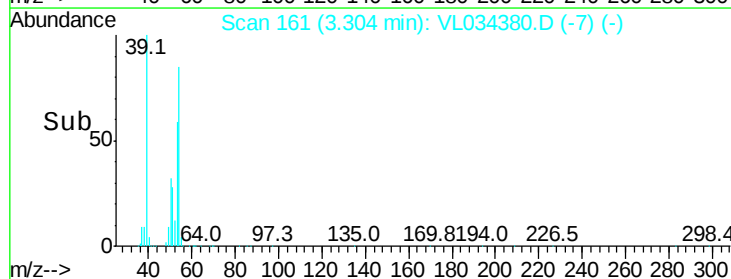
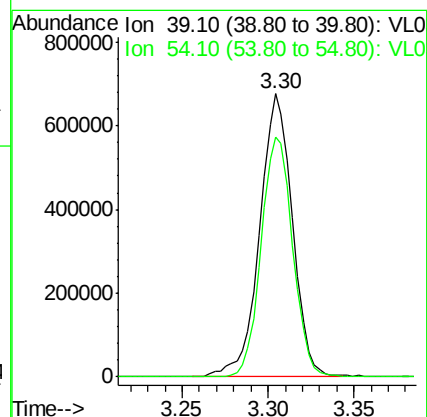
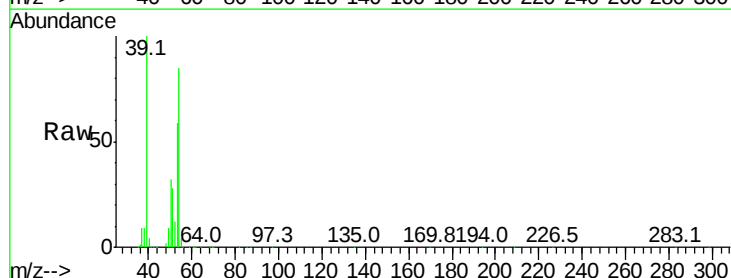
Acq: 19 Nov 2019 13:42

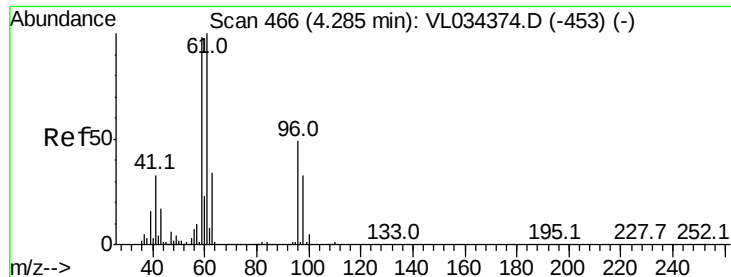
Tgt Ion: 39 Resp: 888470

Ion Ratio Lower Upper

39 100

54 82.2 63.9 95.9





#17

tert-Butyl alcohol

Concen: 17.179 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

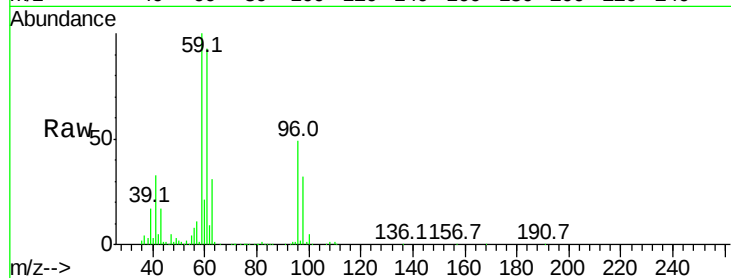
VSTDIC015

Tgt Ion: 59 Resp: 1611892

Ion Ratio Lower Upper

59 100

57 10.7 8.8 13.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

800000

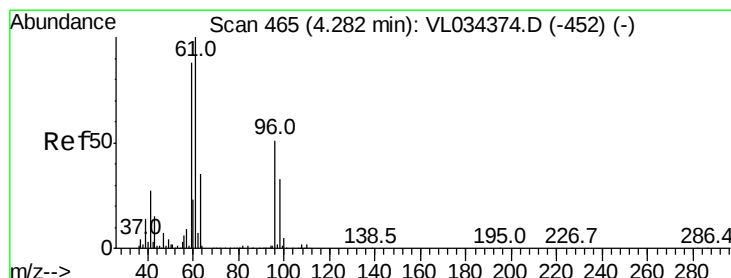
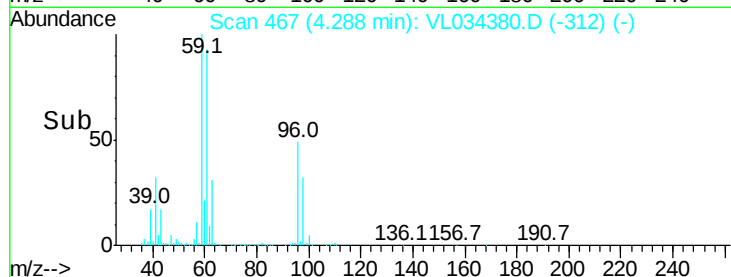
600000

400000

200000

0

Time-->



#18

1,1-Dichloroethene

Concen: 14.951 ppbv

RT: 4.28 min Scan# 465

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

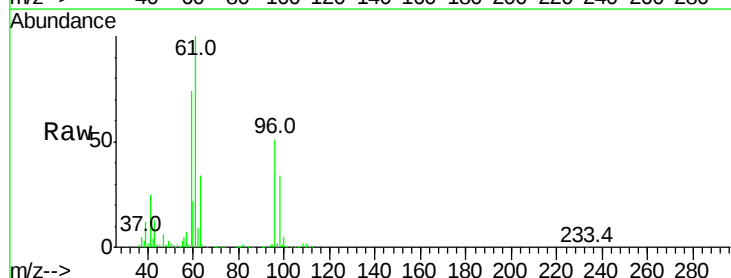
Tgt Ion: 96 Resp: 721516

Ion Ratio Lower Upper

96 100

61 194.7 164.5 246.7

98 65.9 51.7 77.5



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1200000

1000000

800000

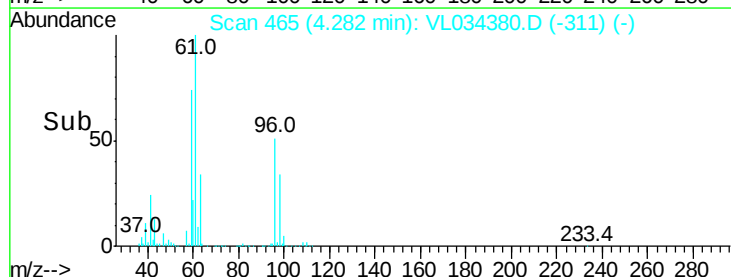
600000

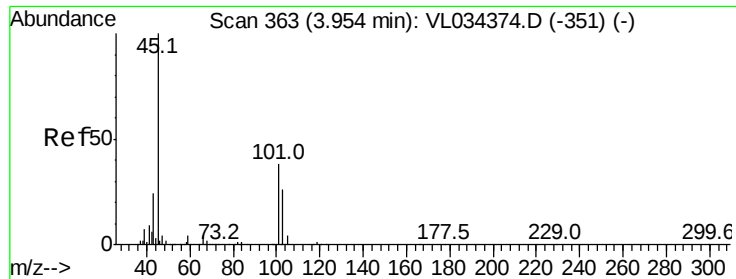
400000

200000

0

Time-->



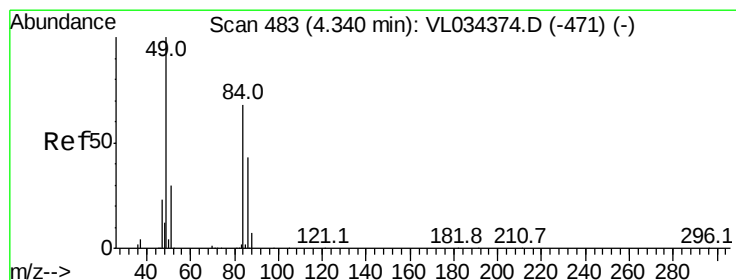
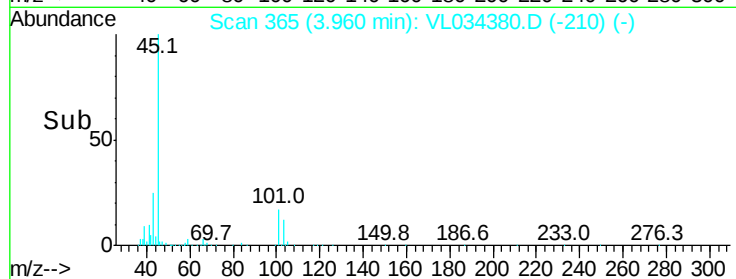
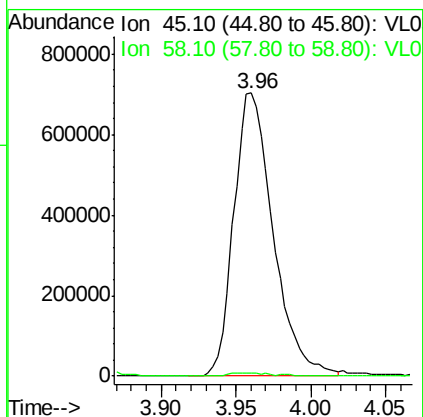
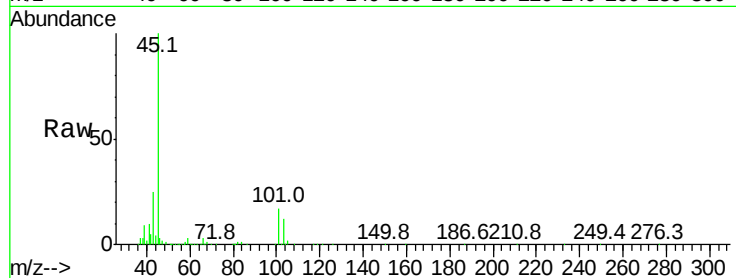


#19

Isopropyl Alcohol
 Concen: 15.743 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. -0.00 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

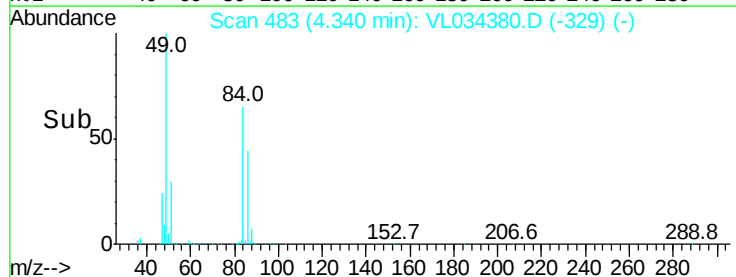
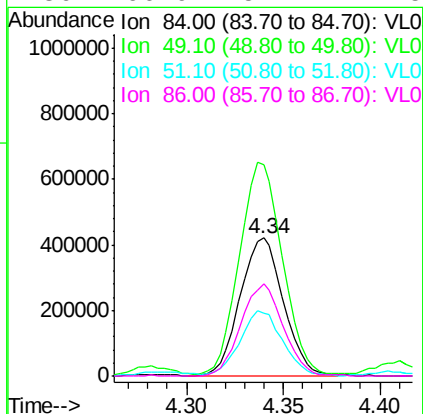
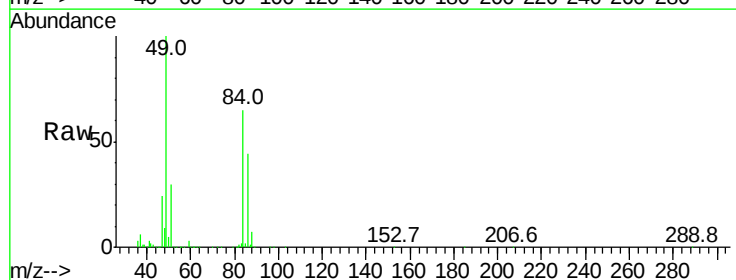
Tgt Ion: 45 Resp: 1291085
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.2

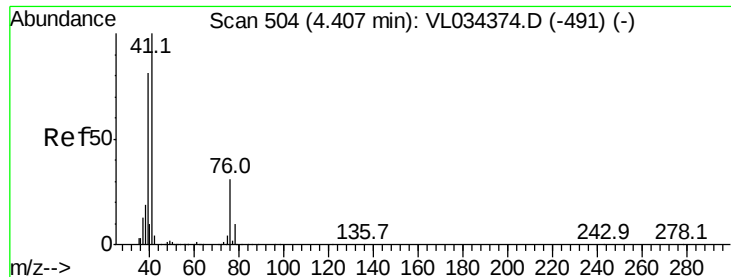


#20

Methylene Chloride
 Concen: 12.287 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion: 84 Resp: 653012
 Ion Ratio Lower Upper
 84 100
 49 152.4 118.5 177.7
 51 45.6 38.8 58.2
 86 66.9 51.7 77.5





#21

Allyl Chloride

Concen: 15.591 ppbv

RT: 4.41 min Scan# 504

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

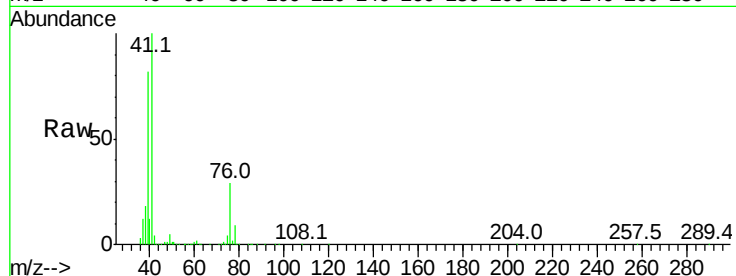
Tgt Ion: 41 Resp: 1267147

Ion Ratio Lower Upper

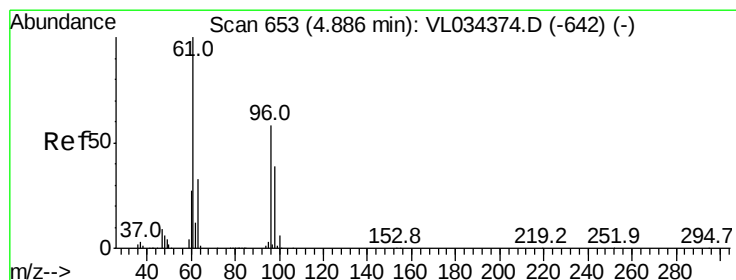
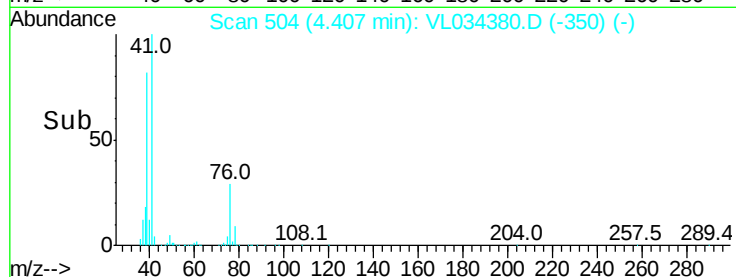
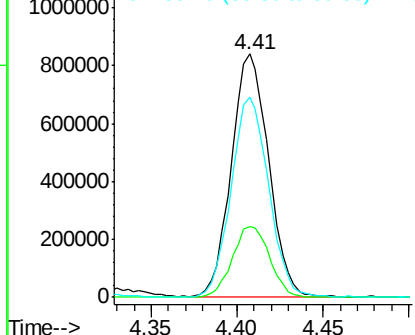
41 100

76 29.4 22.8 34.2

39 83.3 66.0 99.0



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



#22

trans-1,2-Dichloroethene

Concen: 15.718 ppbv

RT: 4.89 min Scan# 653

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

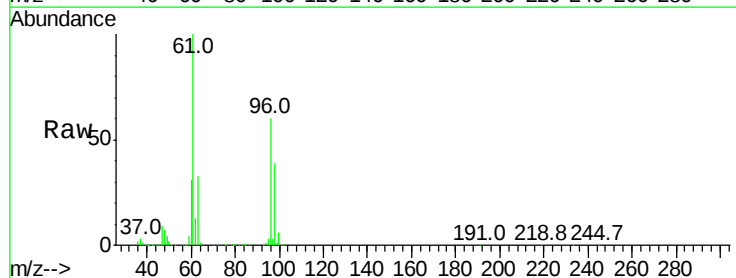
Tgt Ion: 96 Resp: 756578

Ion Ratio Lower Upper

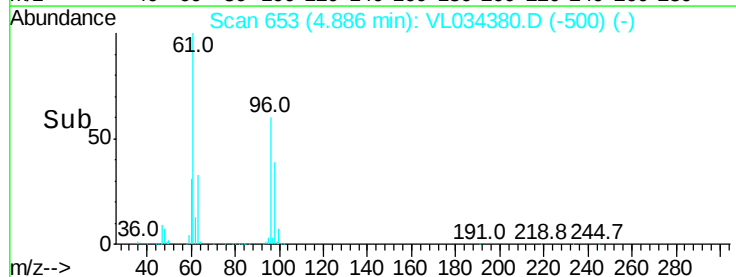
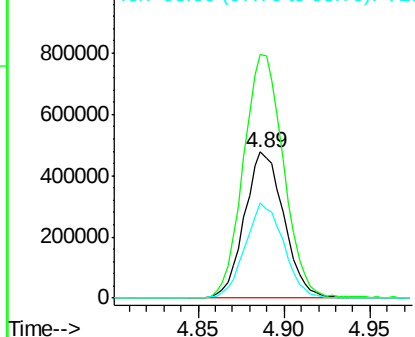
96 100

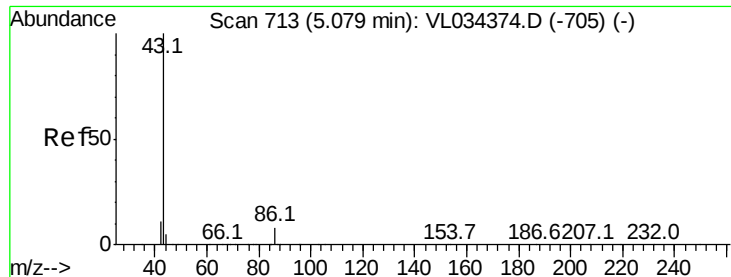
61 166.7 133.8 200.6

98 64.8 49.4 74.0



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





#23

Vinyl Acetate

Concen: 14.910 ppbv

RT: 5.08 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

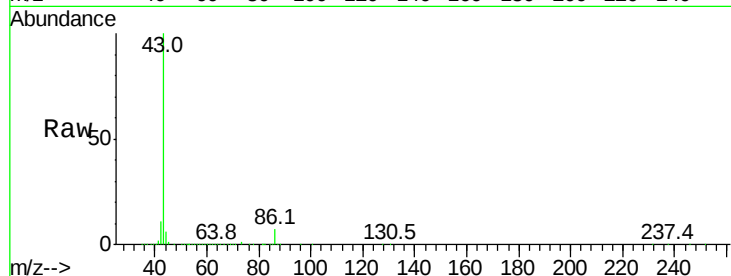
MSVOA_L

ClientSampleId :

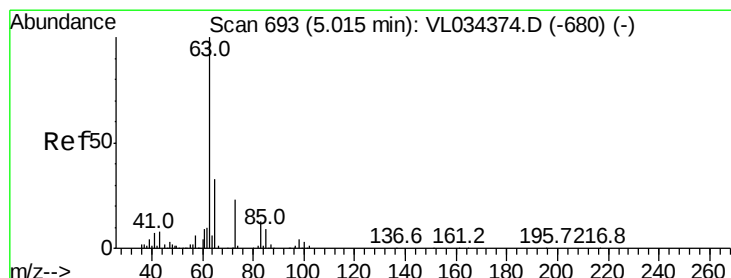
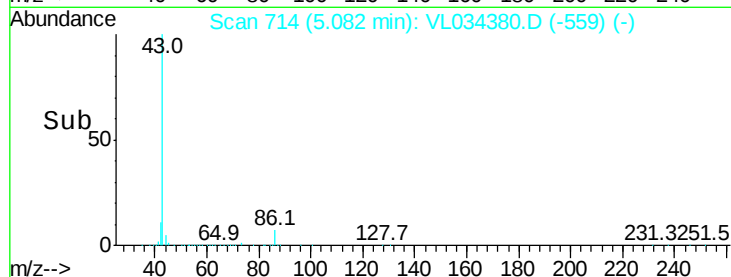
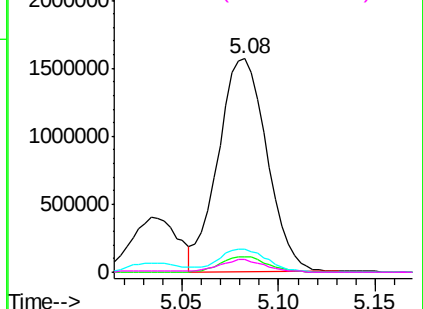
VSTDIC015

Tgt Ion: 43 Resp: 2737406

Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.0	7.4#
42	10.9	8.6	13.0
44	5.6	4.8	7.2



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: 14.339 ppbv

RT: 5.02 min Scan# 694

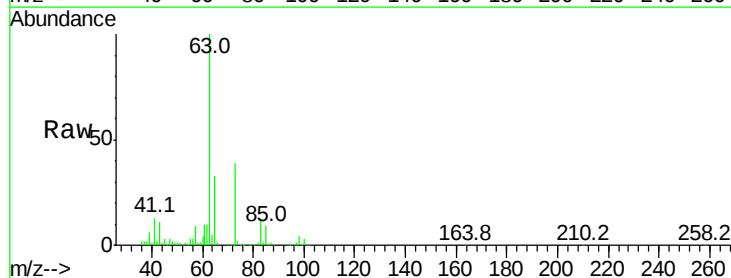
Delta R.T. -0.01 min

Lab File: VL034380.D

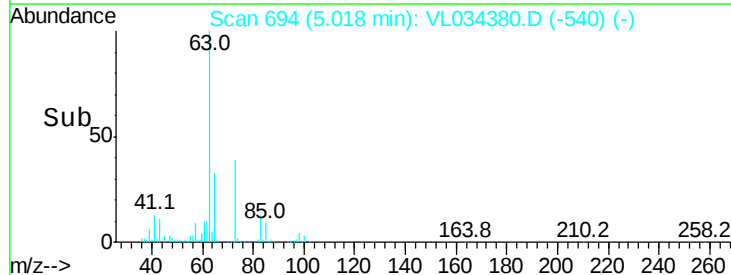
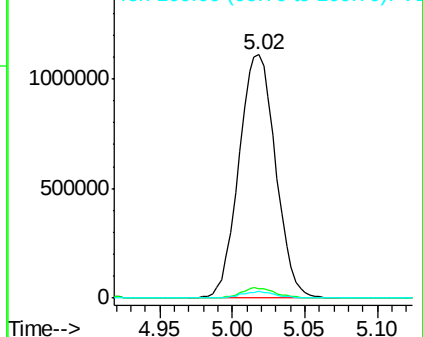
Acq: 19 Nov 2019 13:42

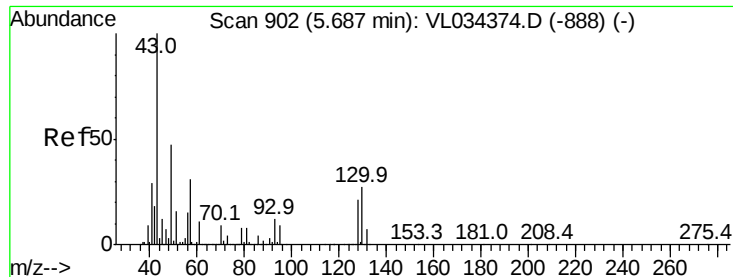
Tgt Ion: 63 Resp: 1953773

Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.0	6.0
100	2.6	1.1	3.5



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: 13.784 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

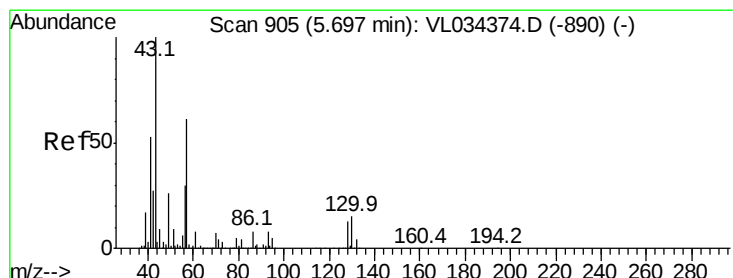
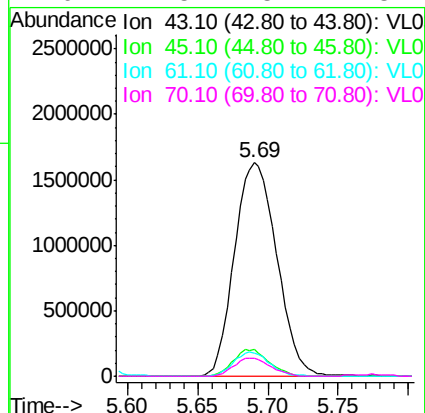
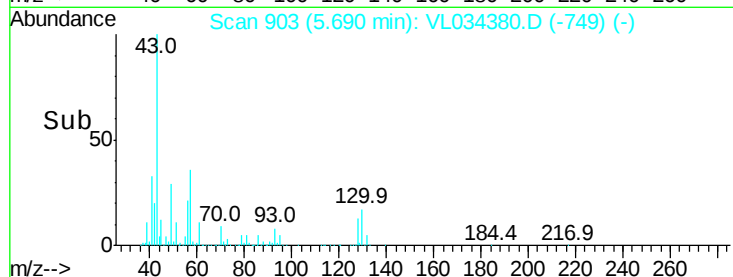
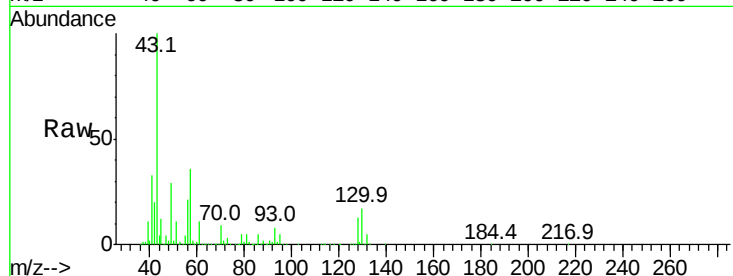
MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3421267

Ion	Ratio	Lower	Upper
43	100		
45	10.8	8.3	12.5
61	9.9	7.7	11.5
70	7.5	5.4	8.2



#26

Hexane

Concen: 14.020 ppbv

RT: 5.70 min Scan# 906

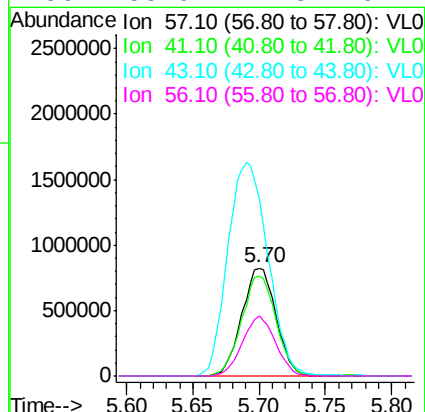
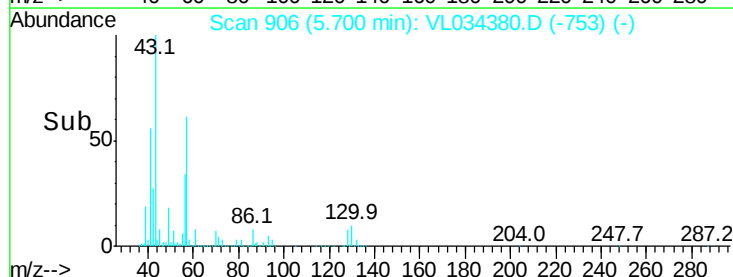
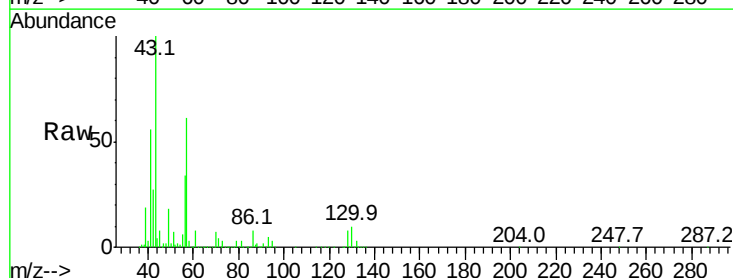
Delta R.T. -0.01 min

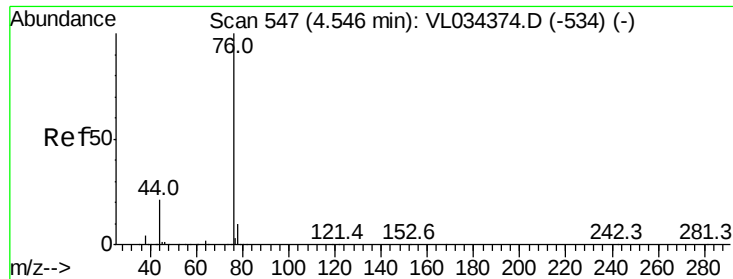
Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Tgt Ion: 57 Resp: 1483114

Ion	Ratio	Lower	Upper
57	100		
41	94.0	76.5	114.7
43	231.4	188.5	282.7
56	53.9	42.8	64.2





#27

Carbon Disulfide

Concen: 17.155 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

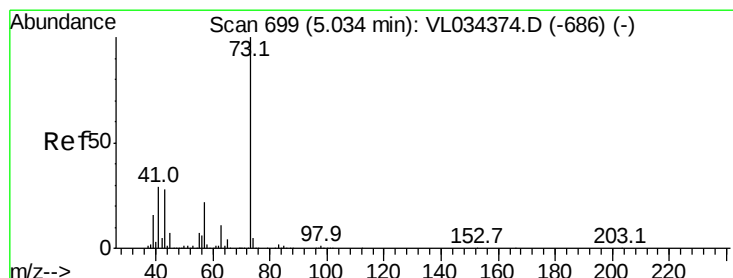
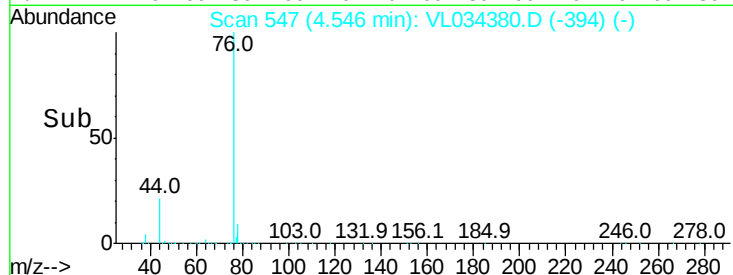
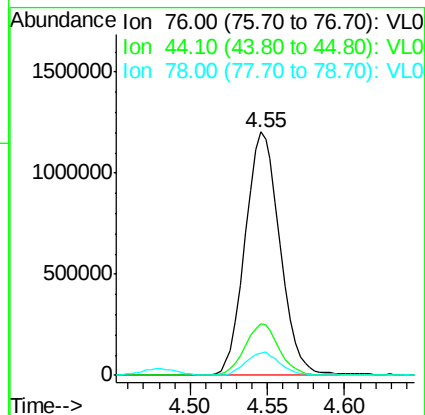
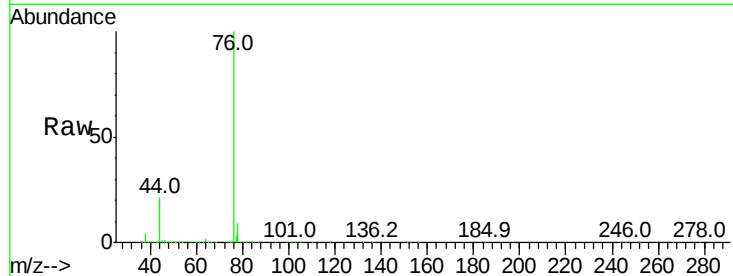
Tgt Ion: 76 Resp: 1884126

Ion Ratio Lower Upper

76 100

44 20.5 17.3 25.9

78 9.3 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 15.557 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.01 min

Lab File: VL034380.D

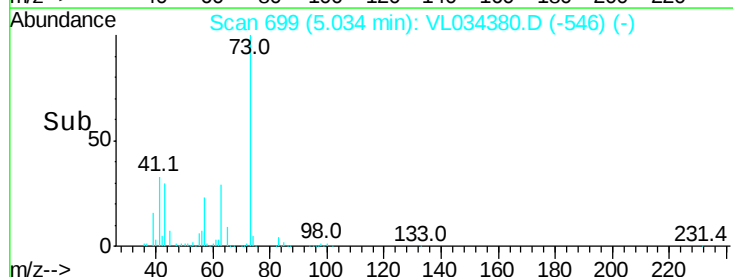
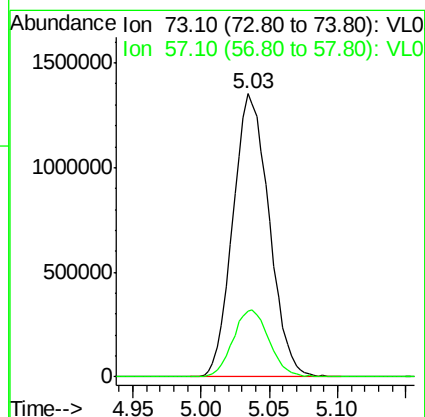
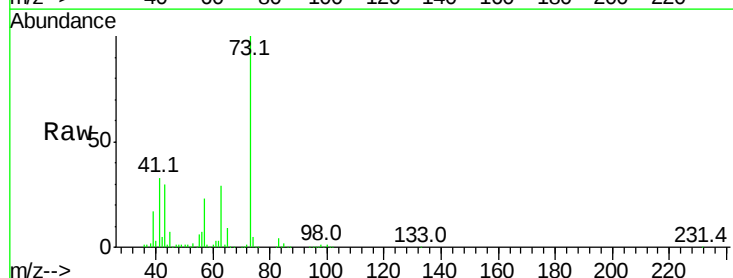
Acq: 19 Nov 2019 13:42

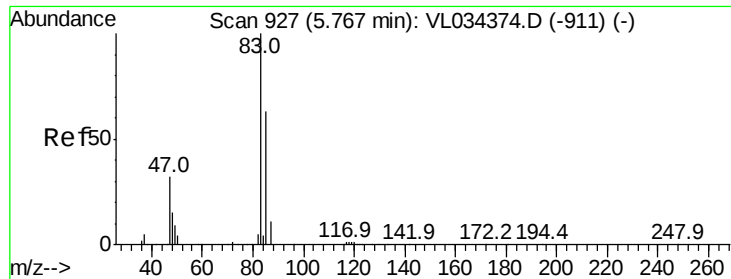
Tgt Ion: 73 Resp: 2490813

Ion Ratio Lower Upper

73 100

57 23.8 19.2 28.8





#29

Chloroform

Concen: 14.357 ppbv

RT: 5.77 min Scan# 928

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

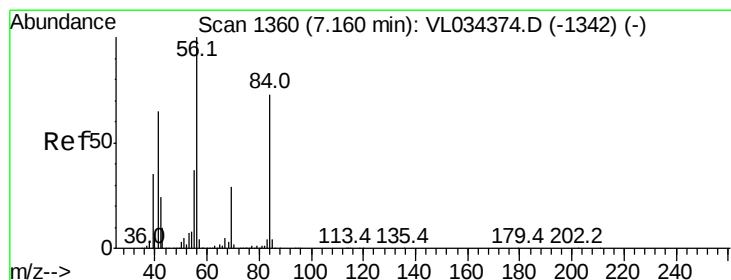
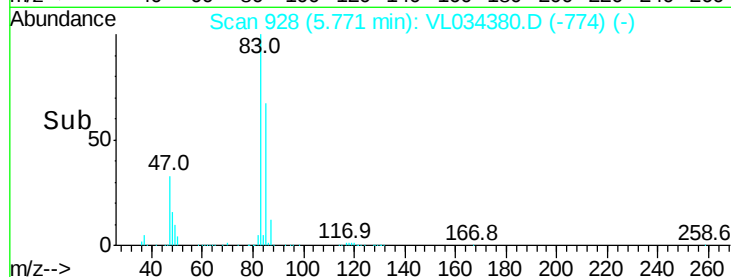
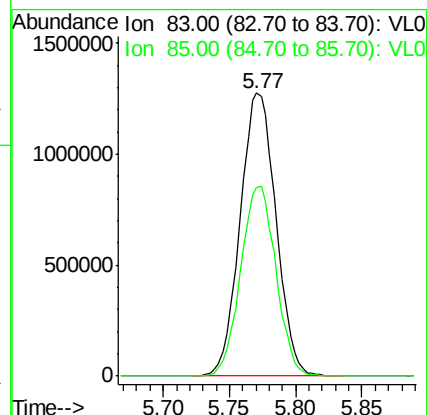
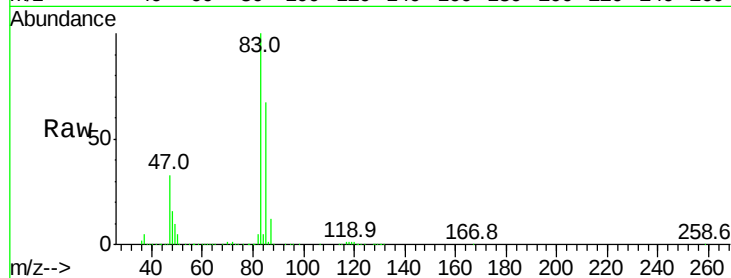
VSTDIC015

Tgt Ion: 83 Resp: 2402520

Ion Ratio Lower Upper

83 100

85 66.5 50.5 75.7



#30

Cyclohexane

Concen: 15.934 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

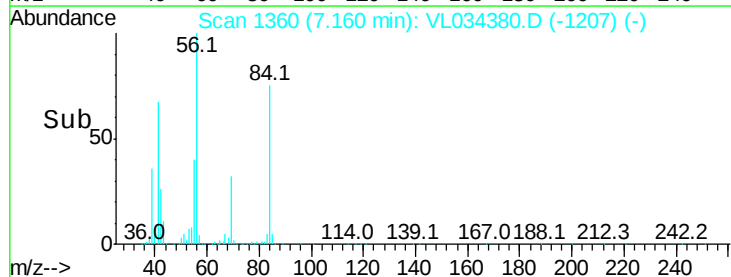
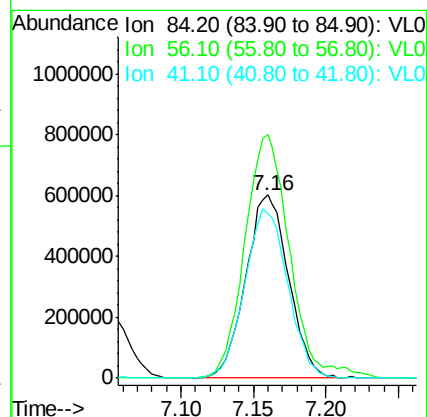
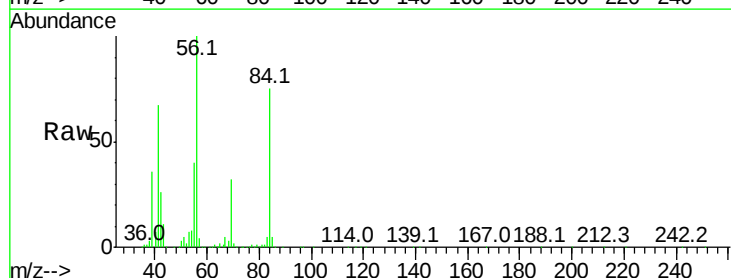
Tgt Ion: 84 Resp: 1239707

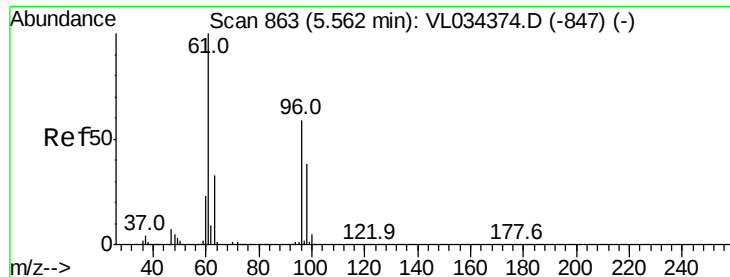
Ion Ratio Lower Upper

84 100

56 139.0 119.4 179.0

41 93.2 78.7 118.1



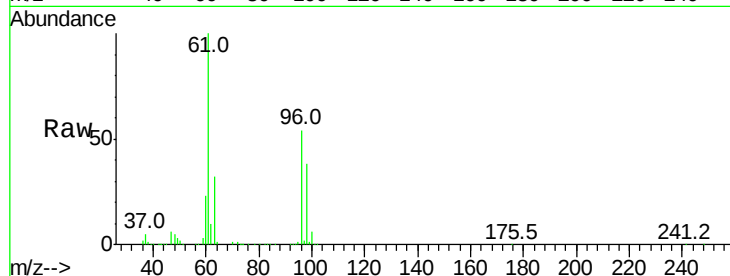


#31

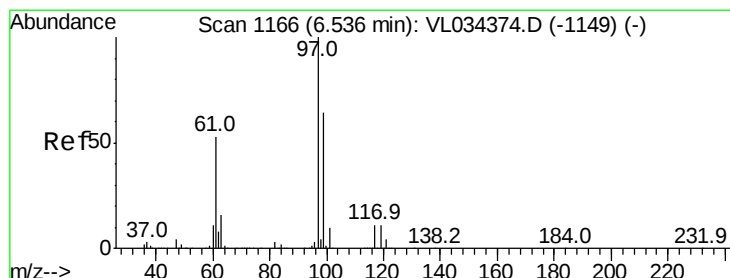
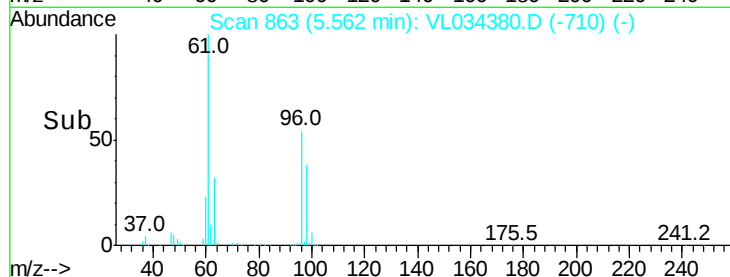
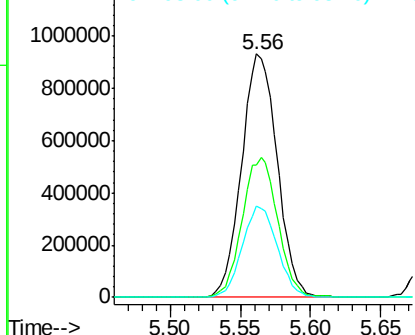
cis-1,2-Dichloroethene
 Concen: 15.386 ppbv
 RT: 5.56 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 61 Resp: 1651924
 Ion Ratio Lower Upper
 61 100
 96 54.1 47.5 71.3
 98 37.5 28.8 43.2



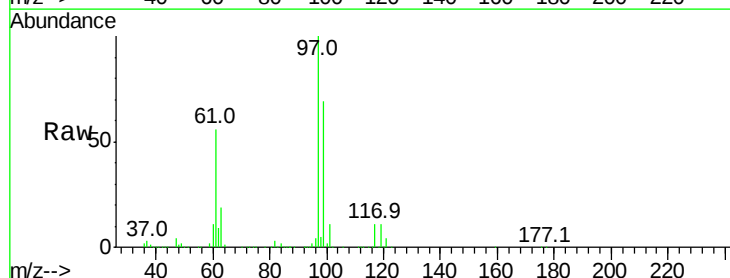
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



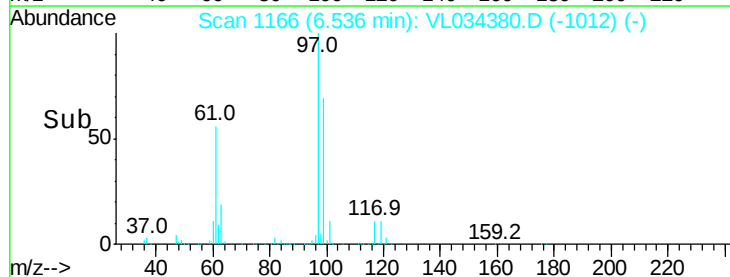
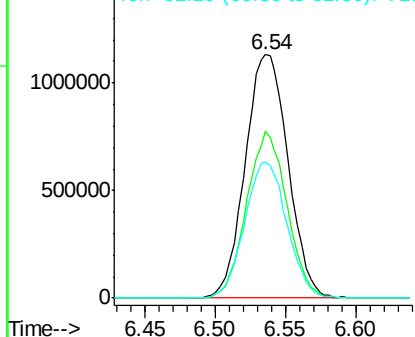
#32

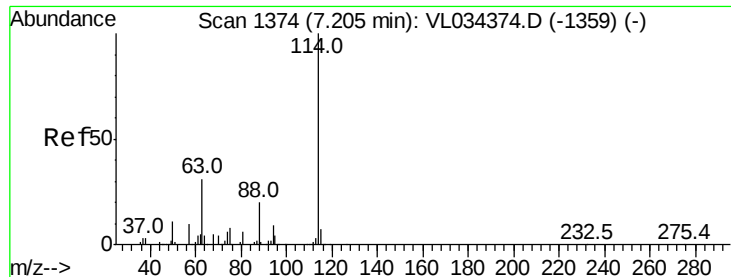
1,1,1-Trichloroethane
 Concen: 14.749 ppbv
 RT: 6.54 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion: 97 Resp: 2400175
 Ion Ratio Lower Upper
 97 100
 99 65.0 52.6 78.8
 61 55.2 44.5 66.7



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

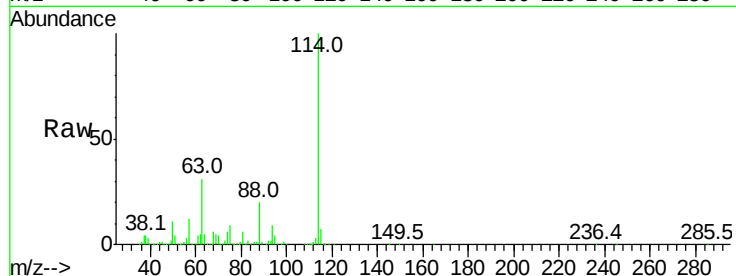




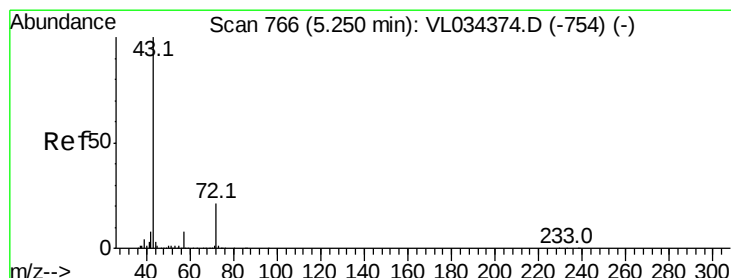
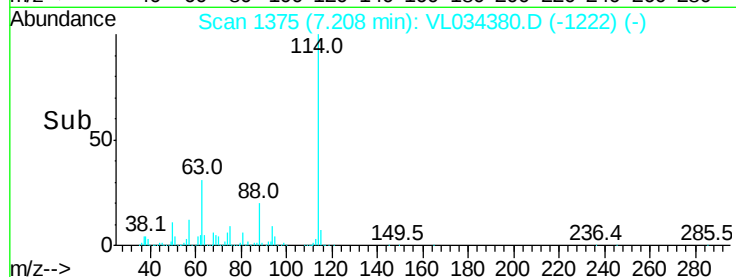
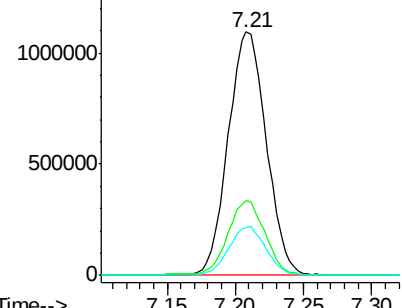
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:114 Resp: 2126139
 Ion Ratio Lower Upper
 114 100
 63 30.5 25.2 37.8
 88 19.5 16.0 24.0

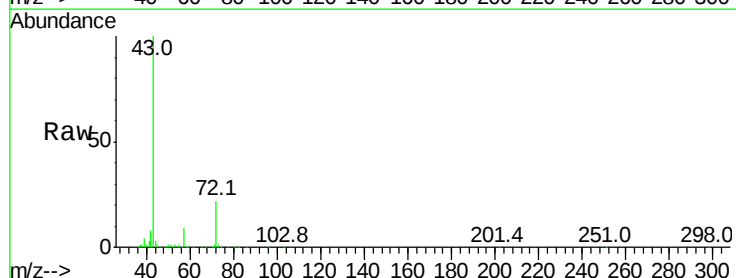


Abundance Ion 114.10 (113.80 to 114.80): V
 1500000 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

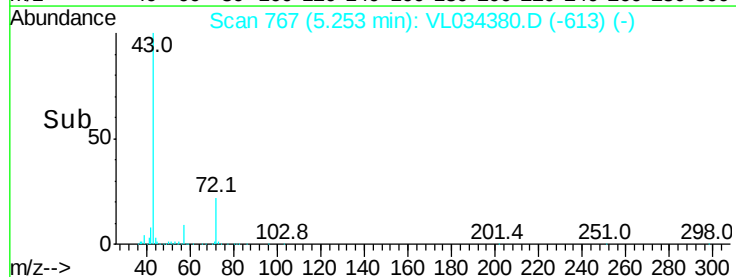
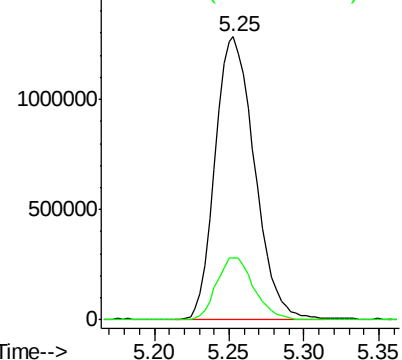


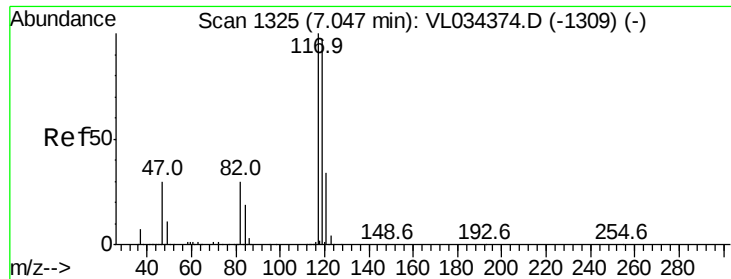
#34
 2-Butanone
 Concen: 13.473 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion: 43 Resp: 2341344
 Ion Ratio Lower Upper
 43 100
 72 21.2 16.3 24.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 1500000 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 13.399 ppbv

RT: 7.05 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

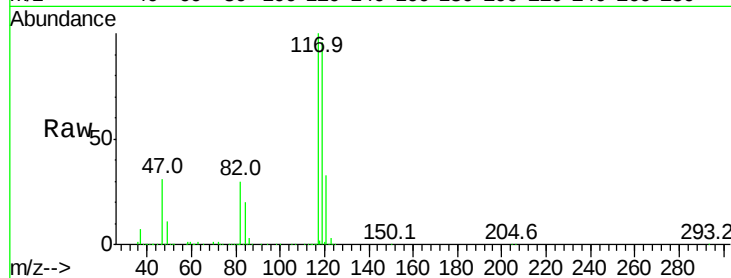
Tgt Ion:117 Resp: 2481446

Ion Ratio Lower Upper

117 100

119 96.3 77.3 115.9

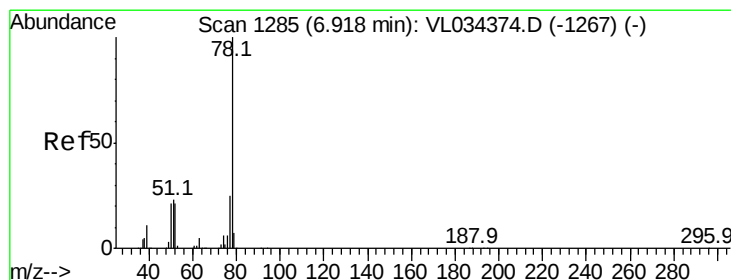
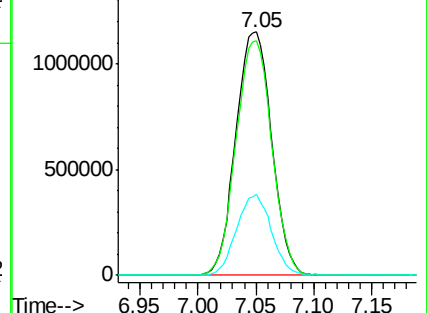
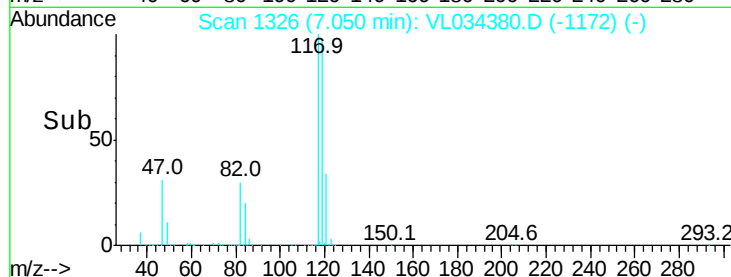
121 33.2 25.5 38.3



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: 14.091 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

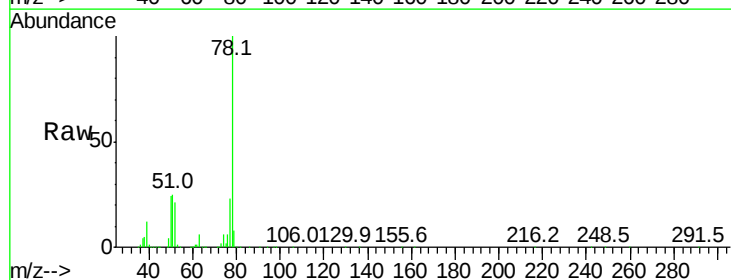
Tgt Ion: 78 Resp: 2874539

Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.4

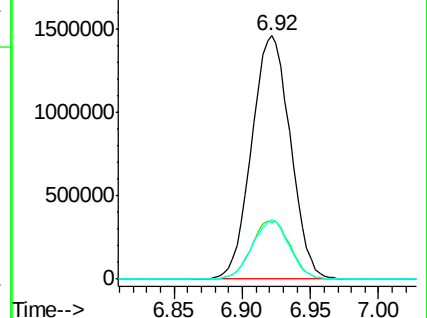
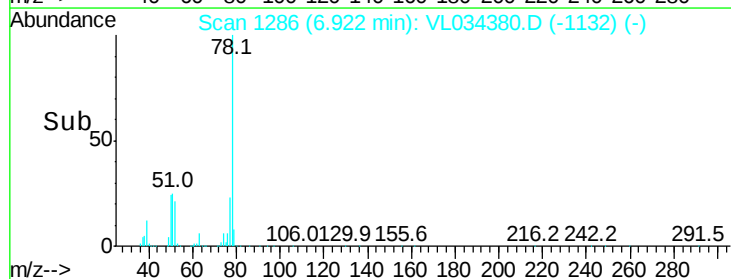
50 24.4 18.6 27.8

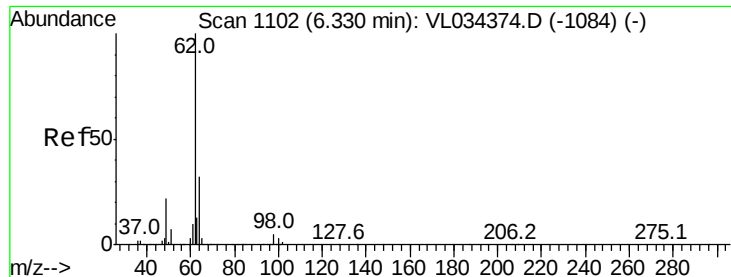


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 13.673 ppbv

RT: 6.33 min Scan# 1103

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

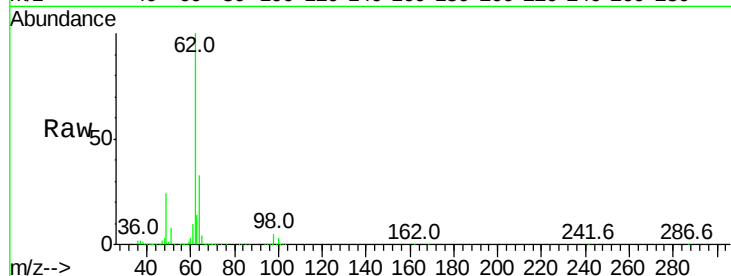
VSTDIC015

Tgt Ion: 62 Resp: 2078809

Ion Ratio Lower Upper

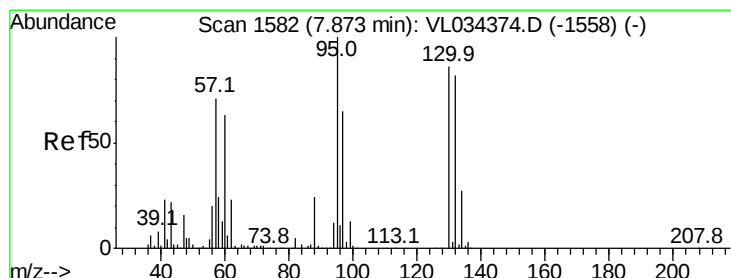
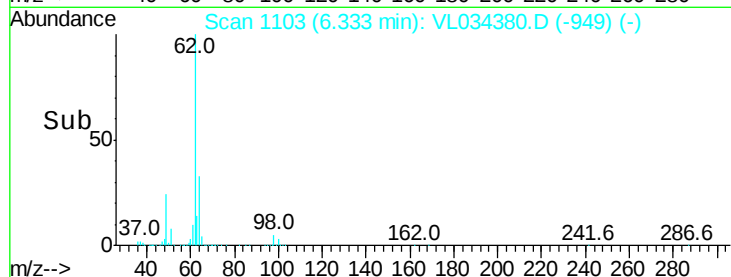
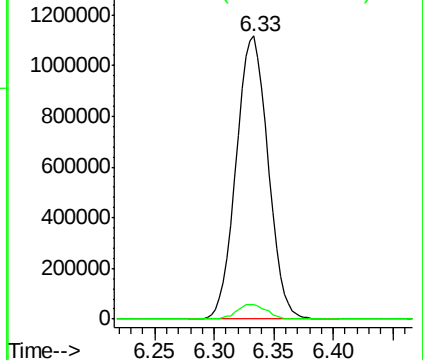
62 100

98 5.0 3.8 5.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 13.865 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Tgt Ion:130 Resp: 1135029

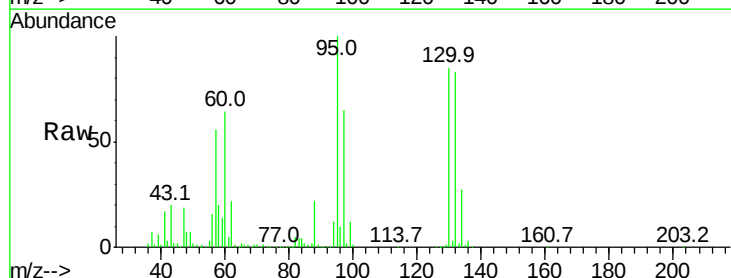
Ion Ratio Lower Upper

130 100

95 118.1 88.6 132.8

132 98.4 71.2 106.8

97 77.2 61.0 91.4

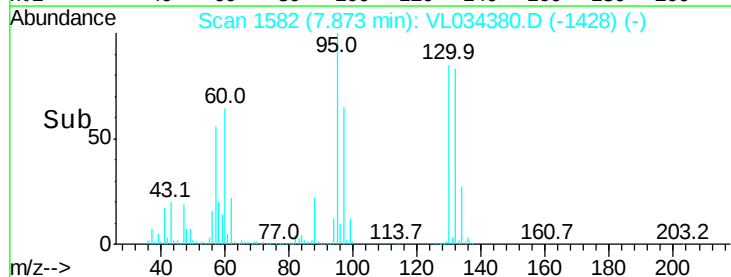
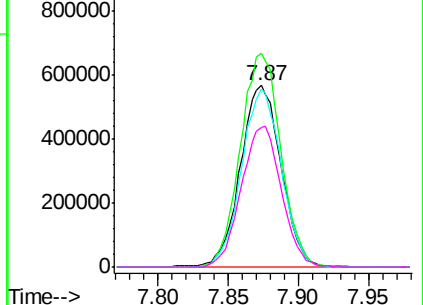


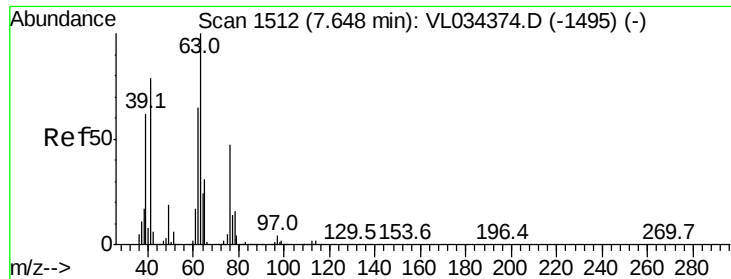
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 13.841 ppbv

RT: 7.65 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

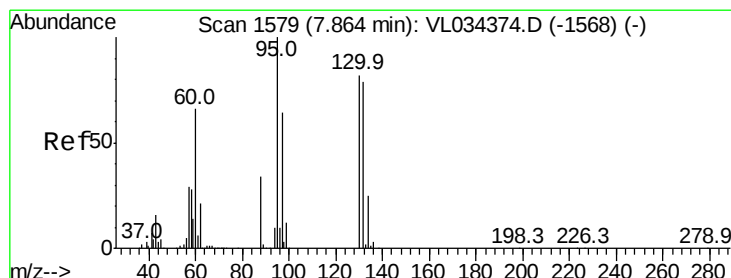
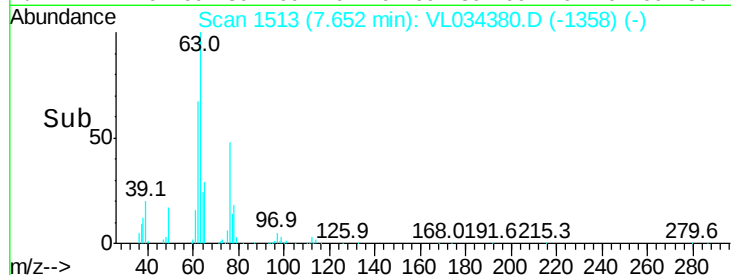
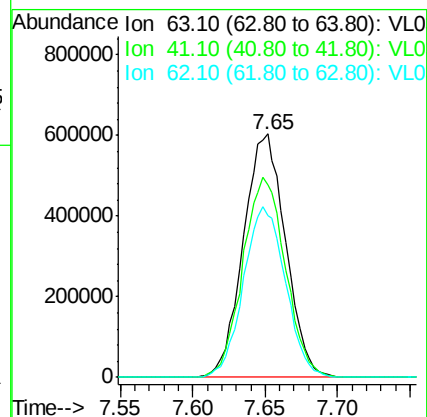
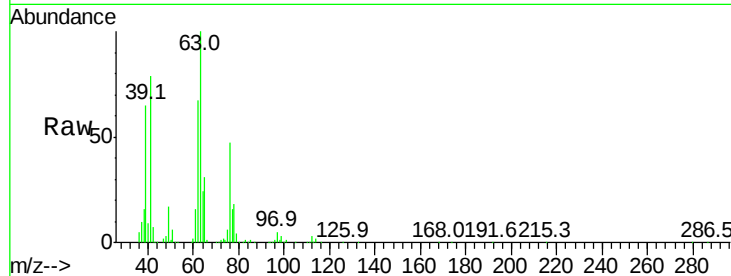
Tgt Ion: 63 Resp: 1215789

Ion Ratio Lower Upper

63 100

41 79.1 65.6 98.4

62 66.5 53.0 79.6



#40

1,4-Dioxane

Concen: 13.937 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Tgt Ion: 88 Resp: 430214

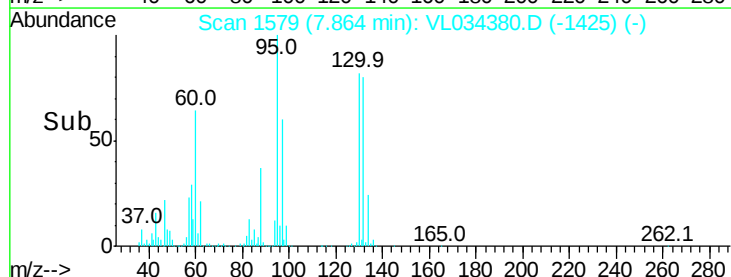
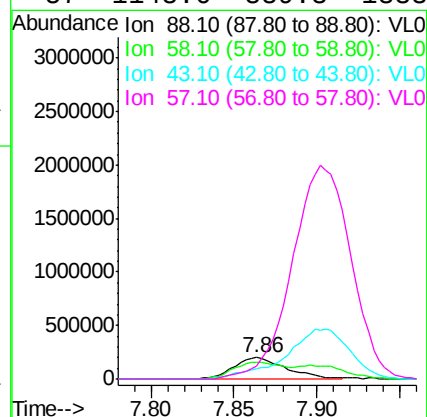
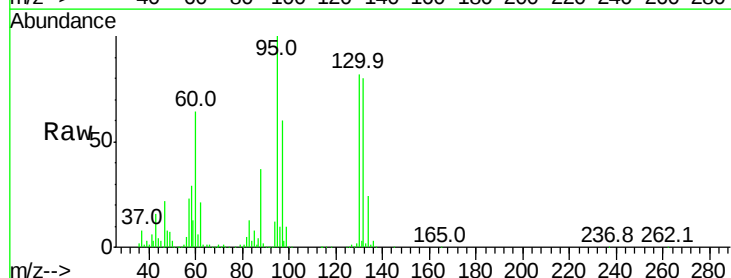
Ion Ratio Lower Upper

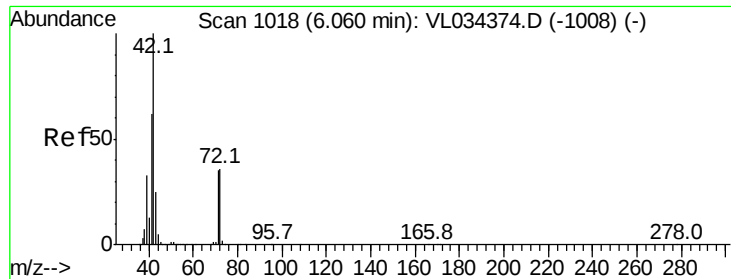
88 100

58 138.7 110.3 165.5

43 294.1 228.1 342.1

57 1148.6 889.3 1333.9





#41

Tetrahydrofuran

Concen: 14.364 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

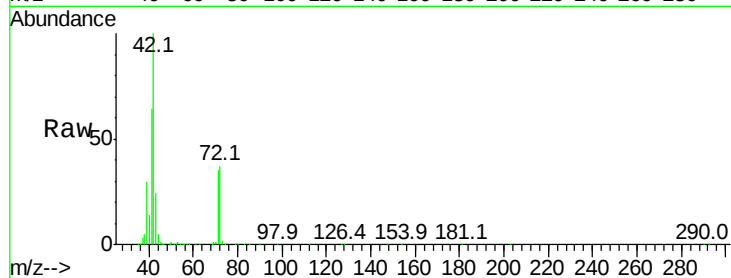
Tgt Ion: 42 Resp: 1385379

Ion Ratio Lower Upper

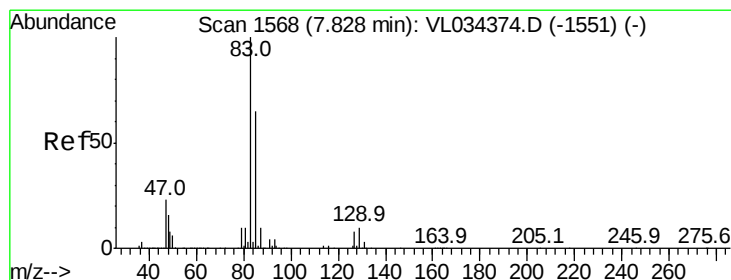
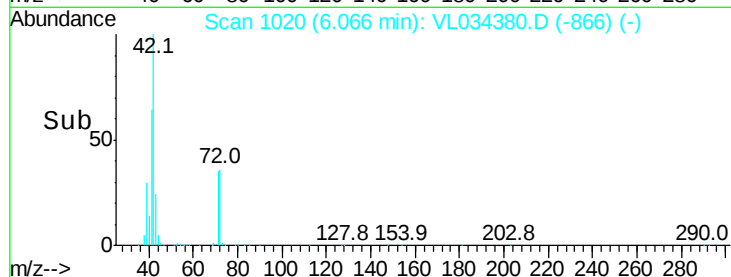
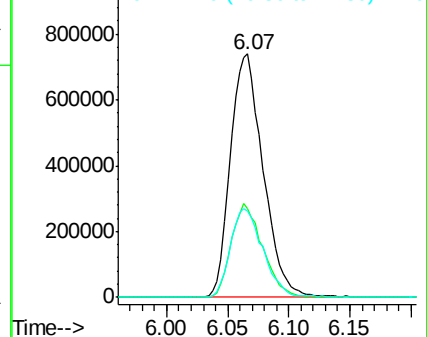
42 100

72 37.0 28.0 42.0

71 36.4 27.3 40.9



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



#42

Bromodichloromethane

Concen: 14.406 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

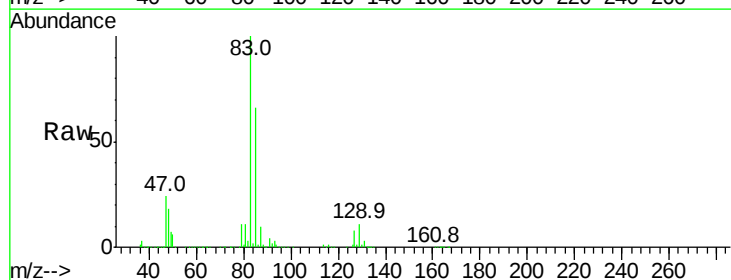
Tgt Ion: 83 Resp: 2682559

Ion Ratio Lower Upper

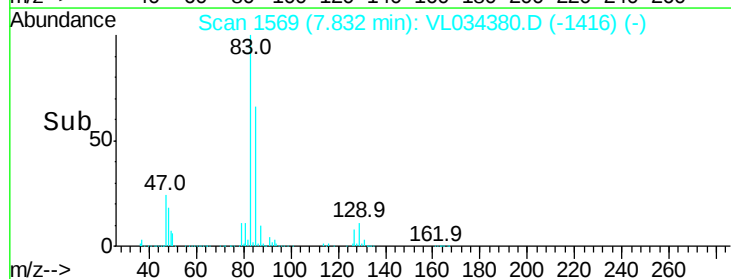
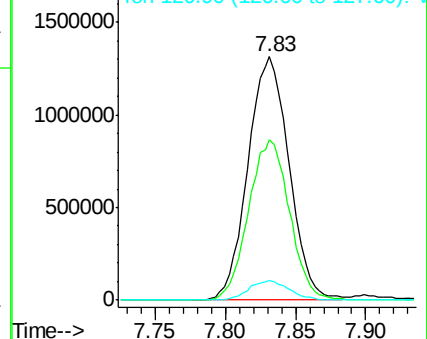
83 100

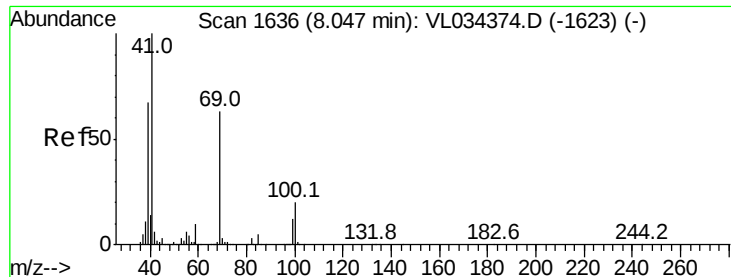
85 65.9 51.8 77.6

127 8.0 7.0 10.6



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

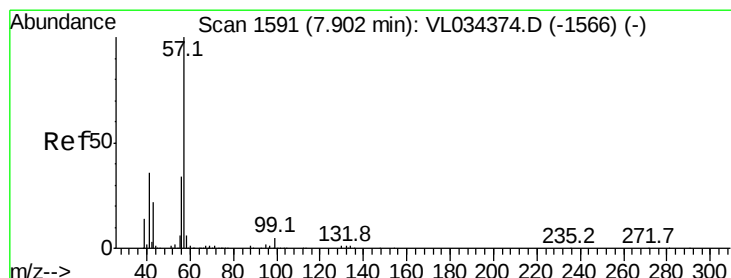
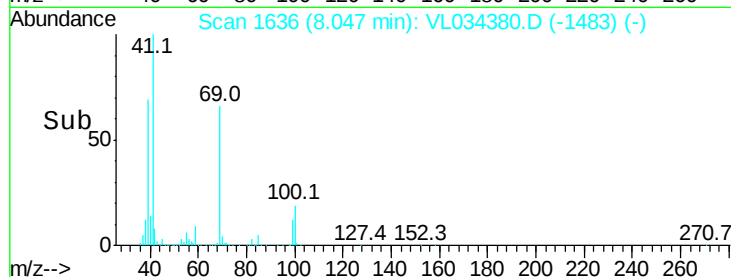
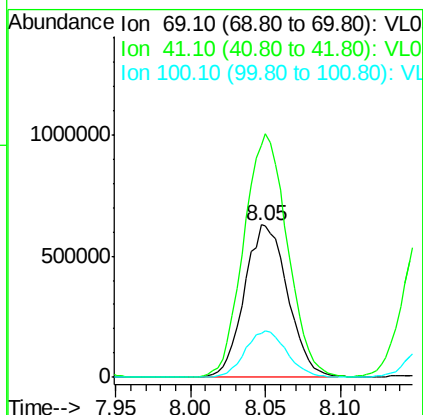
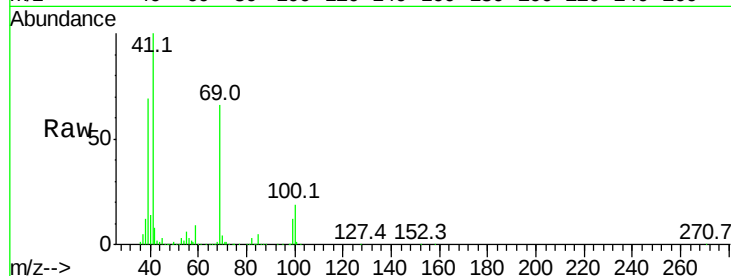




#43
Methyl Methacrylate
Concen: 15.065 ppbv
RT: 8.05 min Scan# 1636
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

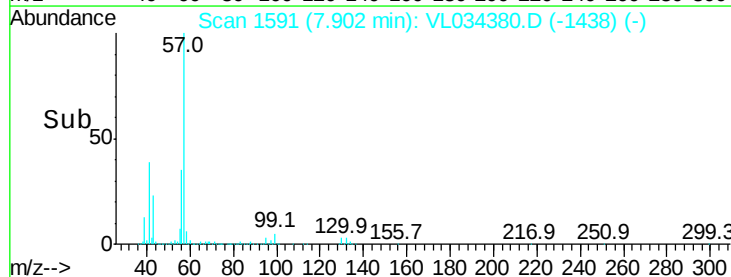
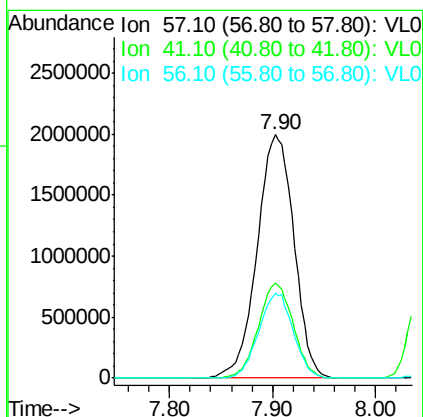
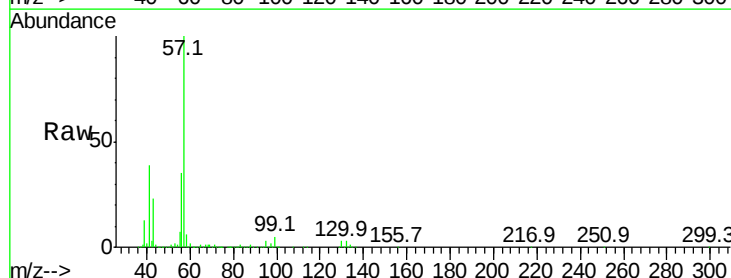
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

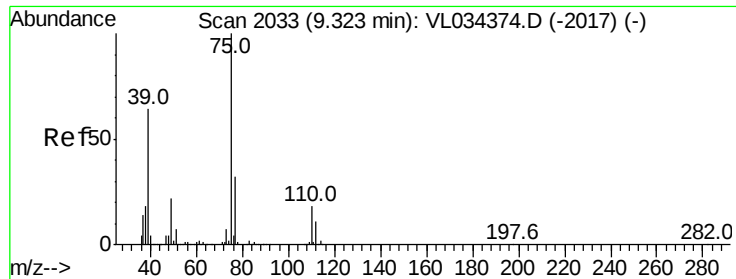
Tgt Ion: 69 Resp: 1271018
Ion Ratio Lower Upper
69 100
41 160.2 132.1 198.1
100 29.7 23.2 34.8



#44
2,2,4-Trimethylpentane
Concen: 13.065 ppbv
RT: 7.90 min Scan# 1591
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 57 Resp: 4933047
Ion Ratio Lower Upper
57 100
41 36.9 29.3 43.9
56 32.7 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 17.250 ppbv

RT: 9.33 min Scan# 2034

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

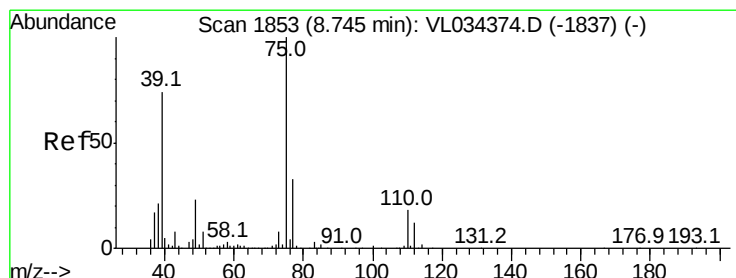
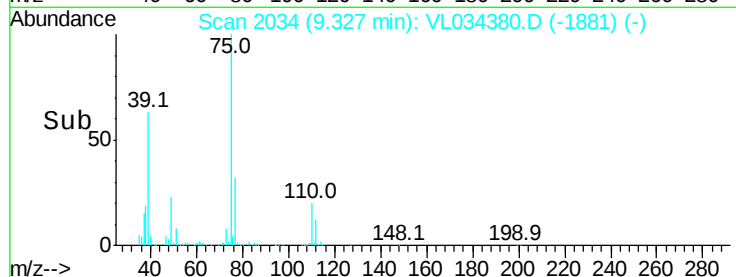
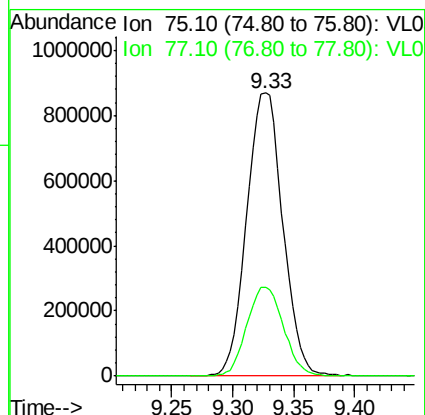
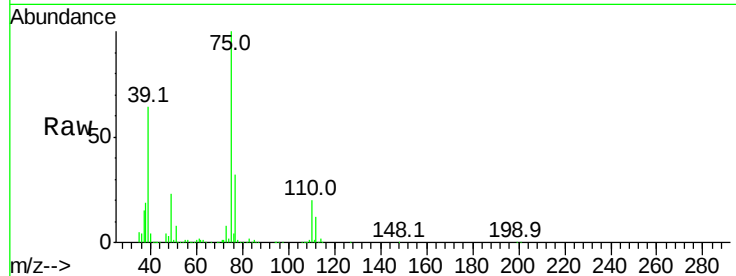
VSTDIC015

Tgt Ion: 75 Resp: 1773223

Ion Ratio Lower Upper

75 100

77 31.5 25.6 38.4



#46

cis-1,3-Dichloropropene

Concen: 16.164 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

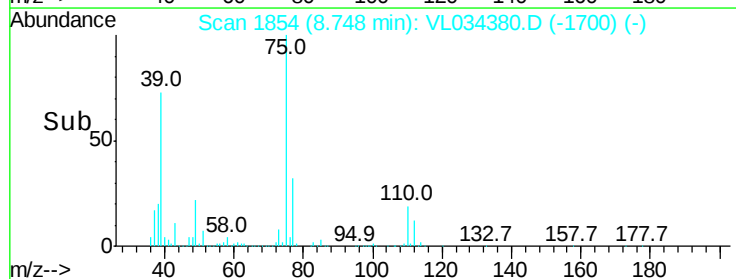
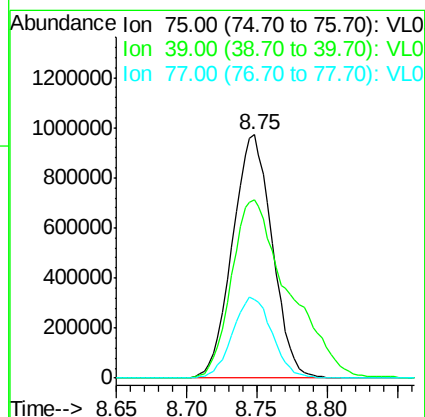
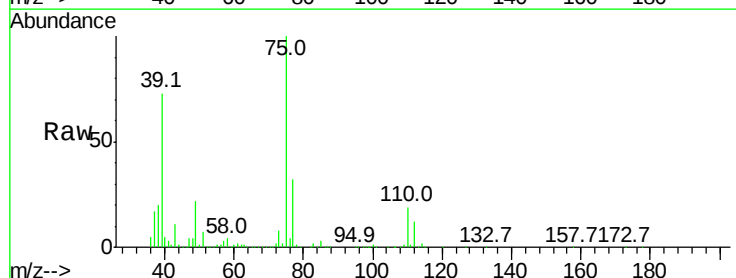
Tgt Ion: 75 Resp: 1908884

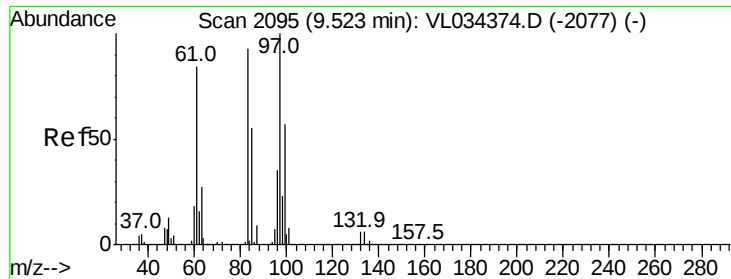
Ion Ratio Lower Upper

75 100

39 73.3 61.2 91.8

77 32.2 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 13.889 ppbv

RT: 9.53 min Scan# 2096

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 1235782

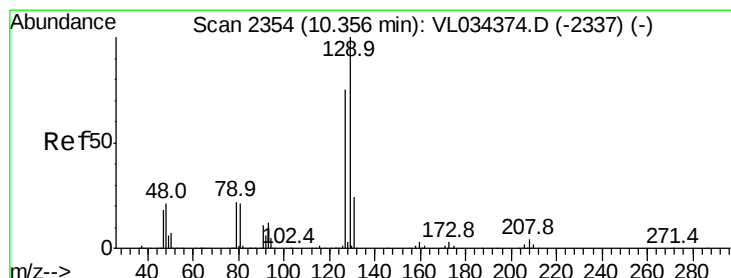
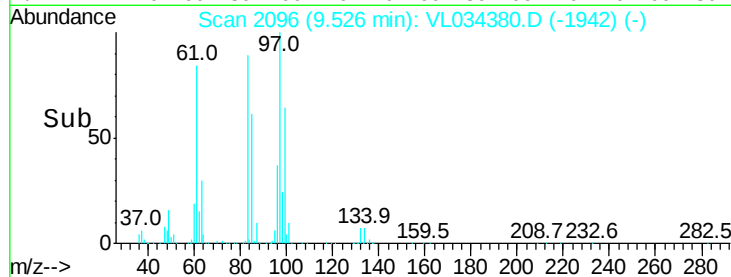
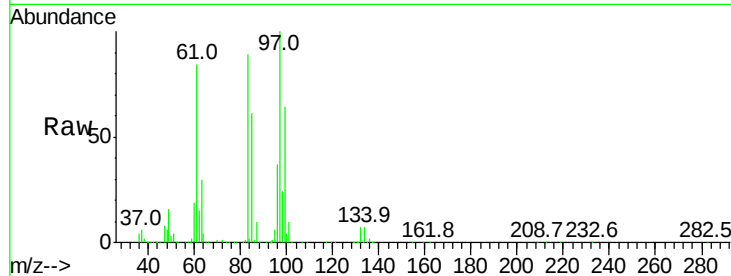
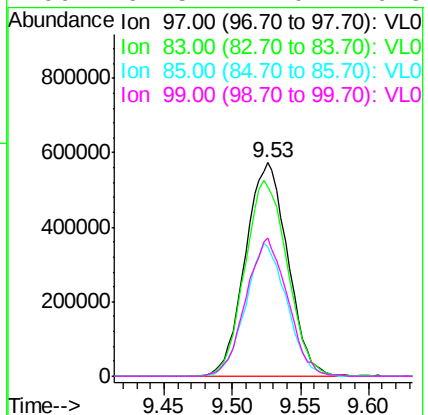
Ion	Ratio	Lower	Upper
97	100		
83	88.8	74.2	111.2
85	60.6	48.6	73.0
99	64.5	47.0	70.6

97 100

83 88.8 74.2 111.2

85 60.6 48.6 73.0

99 64.5 47.0 70.6



#48

Dibromochloromethane

Concen: 15.346 ppbv

RT: 10.36 min Scan# 2355

Delta R.T. -0.01 min

Lab File: VL034380.D

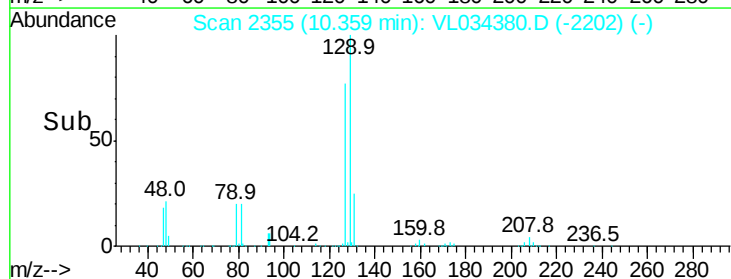
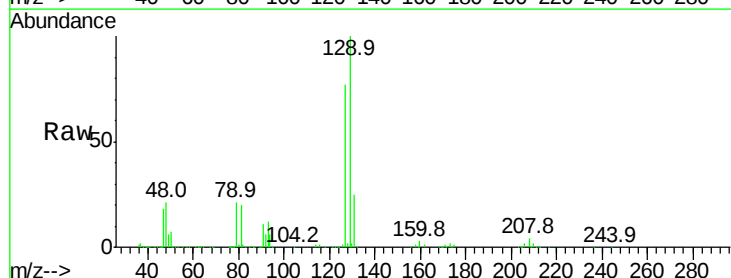
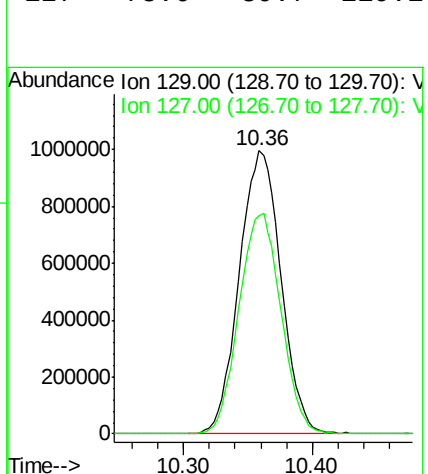
Acq: 19 Nov 2019 13:42

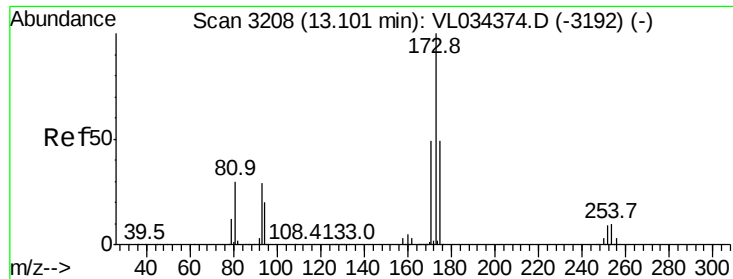
Tgt Ion: 129 Resp: 2239753

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.7	119.1

129 100

127 78.6 39.7 119.1





#49

Bromoform

Concen: 15.807 ppbv

RT: 13.11 min Scan# 3211

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

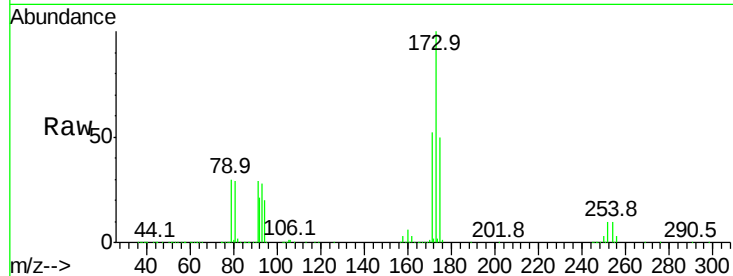
Tgt Ion:173 Resp: 2044283

Ion Ratio Lower Upper

173 100

175 51.2 39.8 59.6

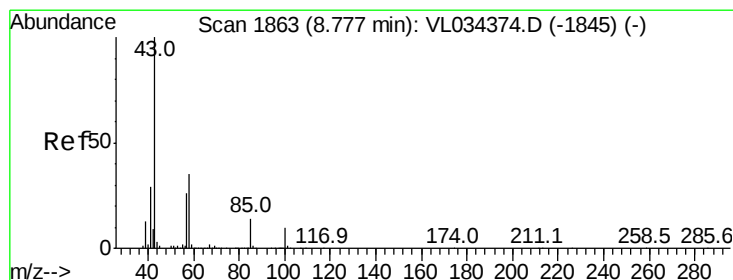
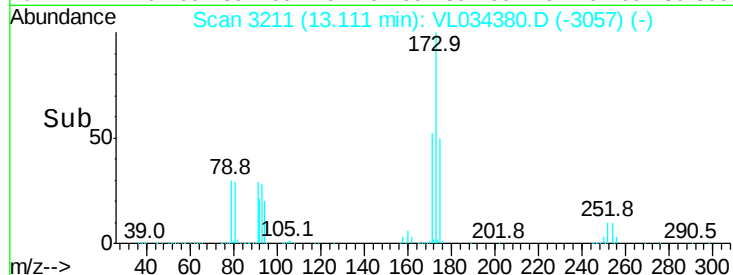
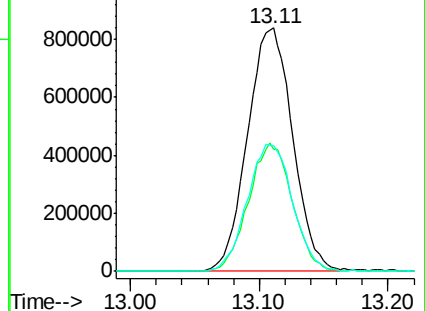
171 52.8 41.8 62.6



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: 13.760 ppbv

RT: 8.78 min Scan# 1864

Delta R.T. -0.01 min

Lab File: VL034380.D

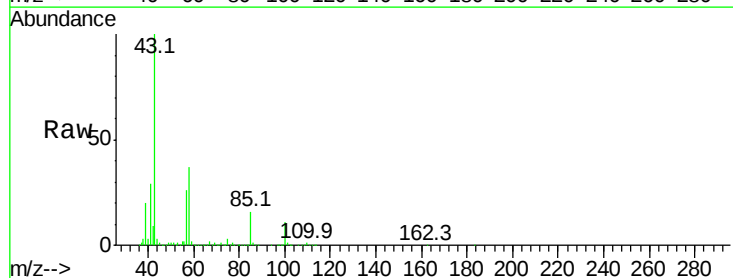
Acq: 19 Nov 2019 13:42

Tgt Ion: 43 Resp: 3423409

Ion Ratio Lower Upper

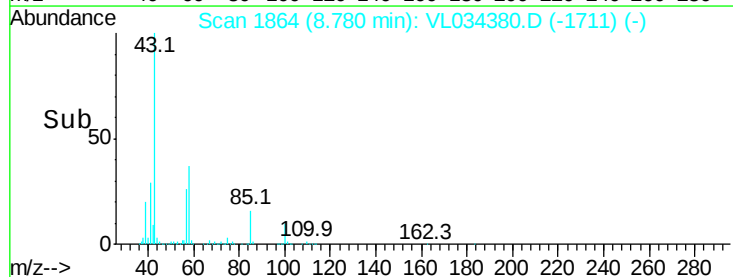
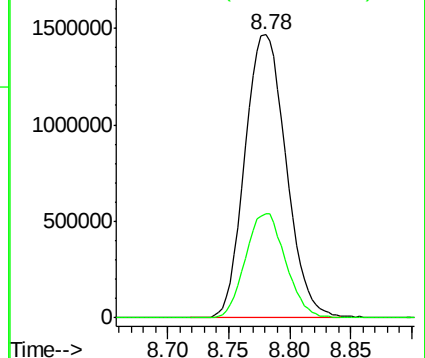
43 100

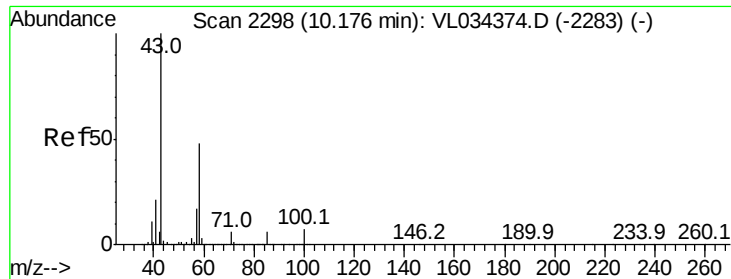
58 36.2 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

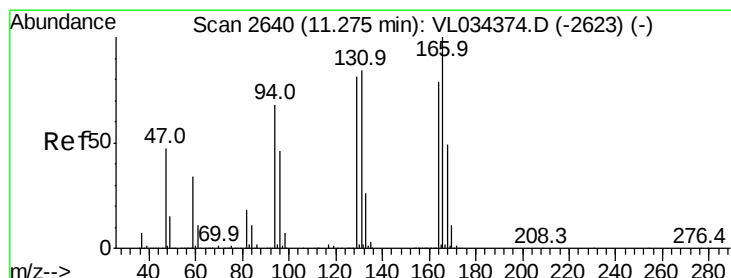
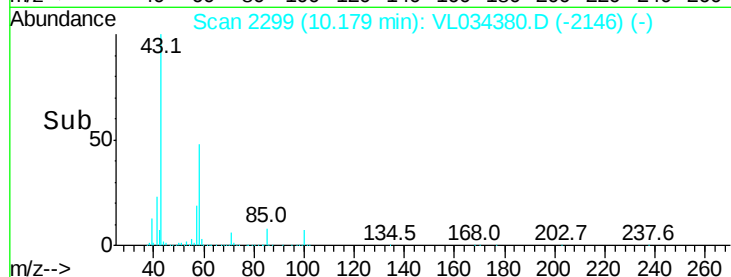
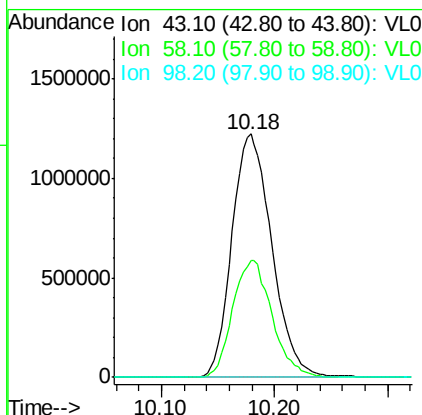
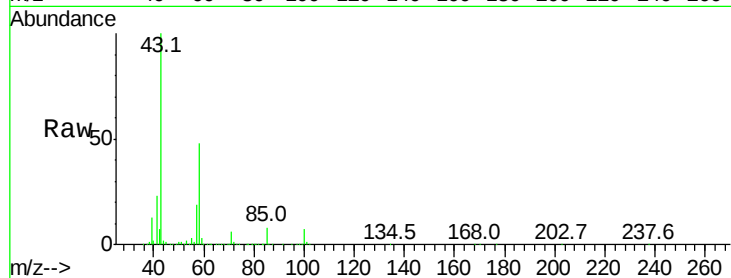




#51
2-Hexanone
Concen: 14.721 ppbv
RT: 10.18 min Scan# 2299
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

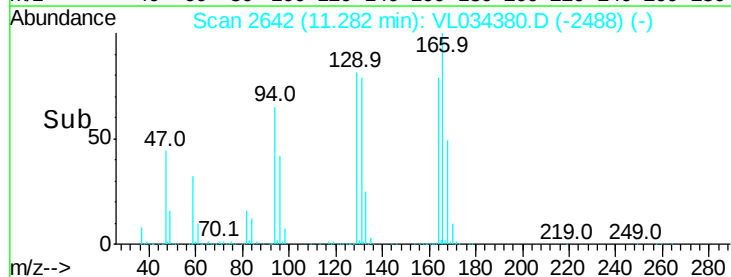
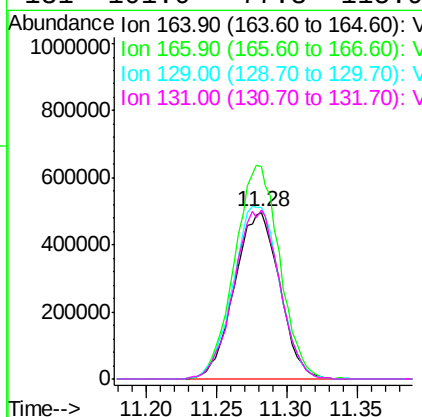
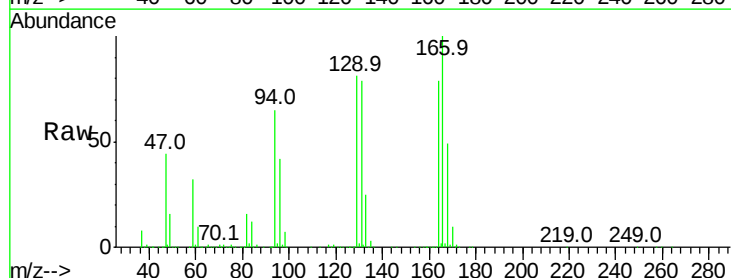
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

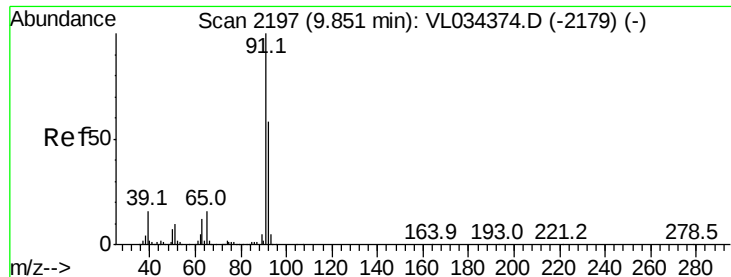
Tgt Ion: 43 Resp: 3002348
Ion Ratio Lower Upper
43 100
58 47.4 37.0 55.6
98 0.2 0.2 0.2



#52
Tetrachloroethene
Concen: 13.827 ppbv
RT: 11.28 min Scan# 2642
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 164 Resp: 1105628
Ion Ratio Lower Upper
164 100
166 127.1 95.3 142.9
129 102.6 84.5 126.7
131 101.0 77.3 115.9





#53

Toluene

Concen: 14.846 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

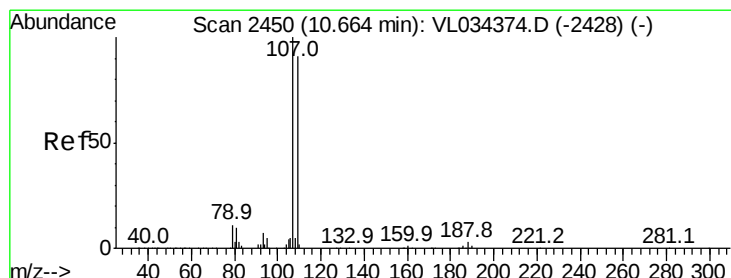
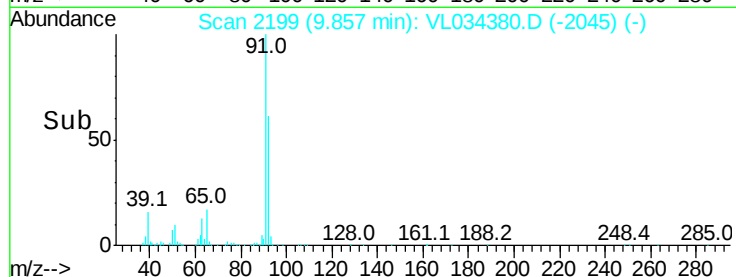
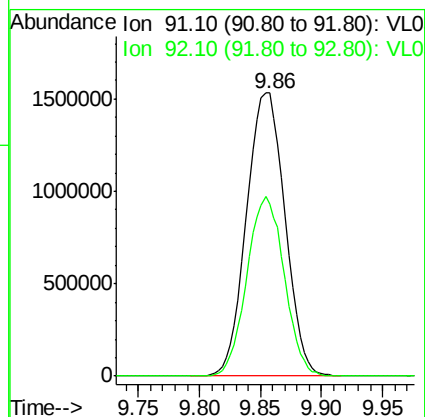
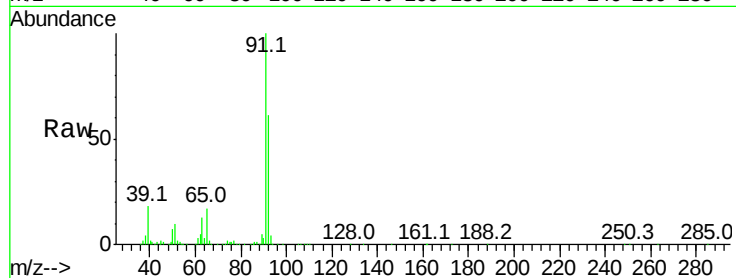
VSTDIC015

Tgt Ion: 91 Resp: 3342234

Ion Ratio Lower Upper

91 100

92 61.6 48.4 72.6



#54

1,2-Dibromoethane

Concen: 14.364 ppbv

RT: 10.66 min Scan# 2450

Delta R.T. -0.01 min

Lab File: VL034380.D

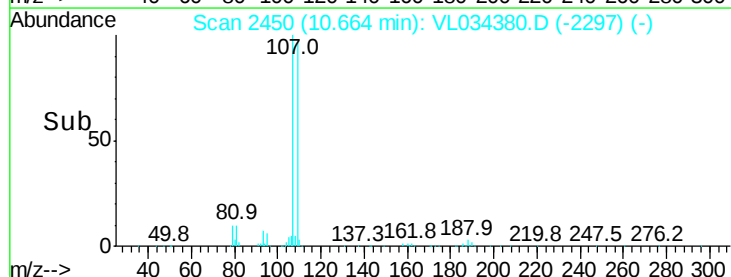
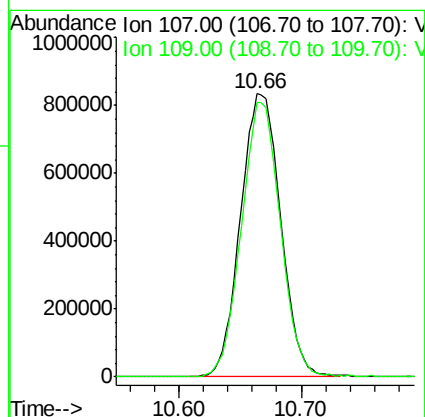
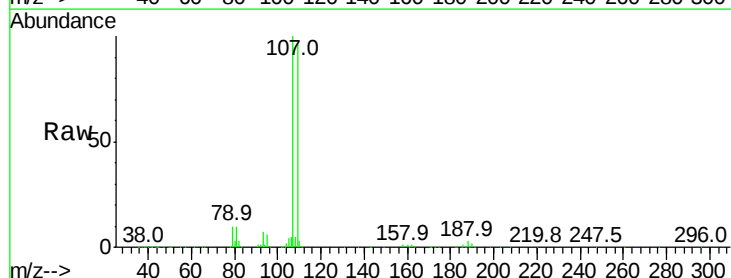
Acq: 19 Nov 2019 13:42

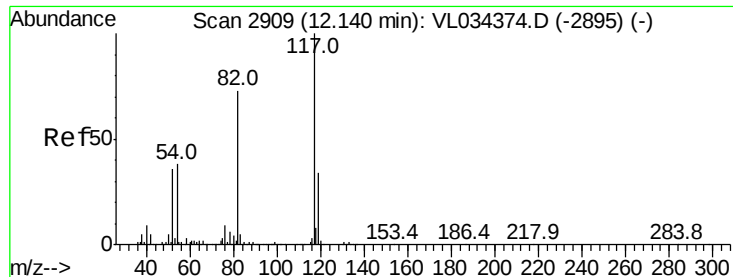
Tgt Ion: 107 Resp: 1894226

Ion Ratio Lower Upper

107 100

109 96.8 74.6 112.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2910

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

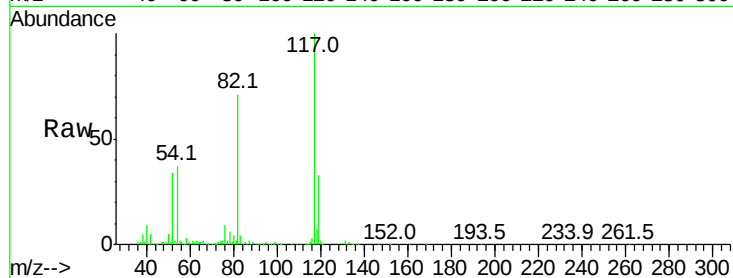
Tgt Ion:117 Resp: 2214050

Ion Ratio Lower Upper

117 100

82 73.2 55.5 83.3

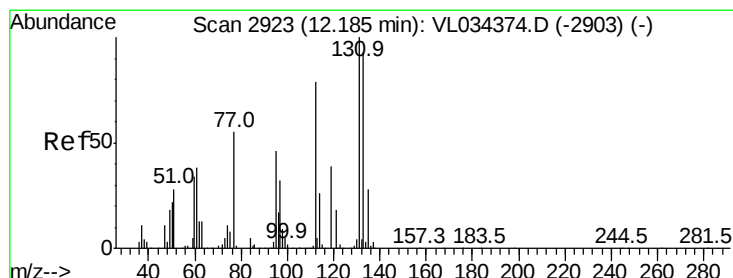
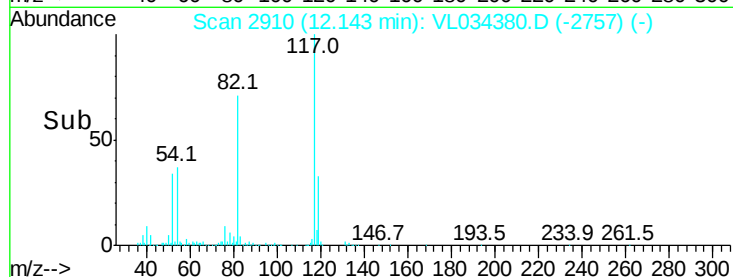
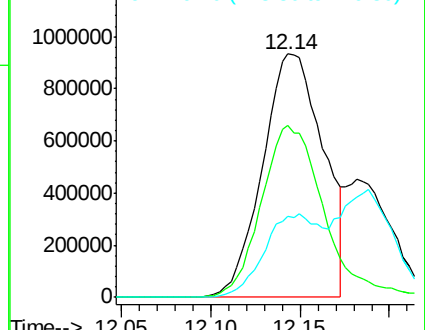
119 0.0 26.5 39.7#



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: 14.383 ppbv

RT: 12.19 min Scan# 2923

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

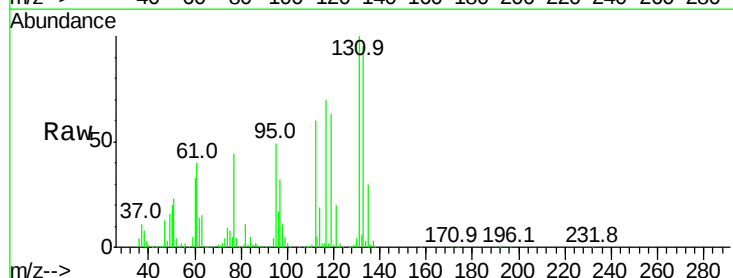
Tgt Ion:131 Resp: 1467572

Ion Ratio Lower Upper

131 100

133 96.0 77.1 115.7

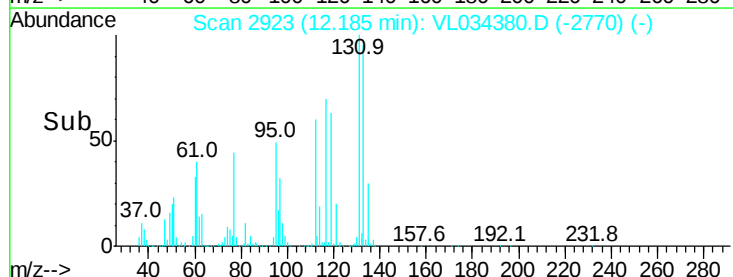
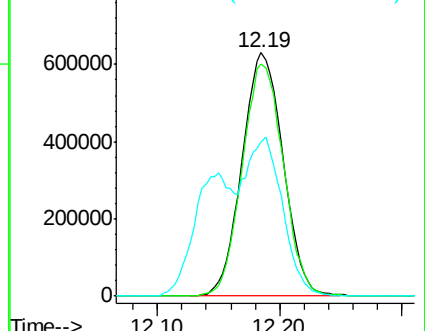
119 108.8 49.0 73.4#

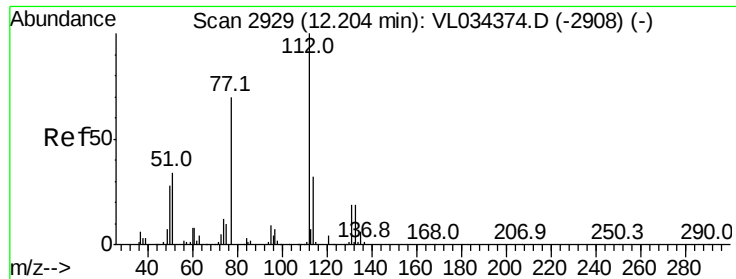


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

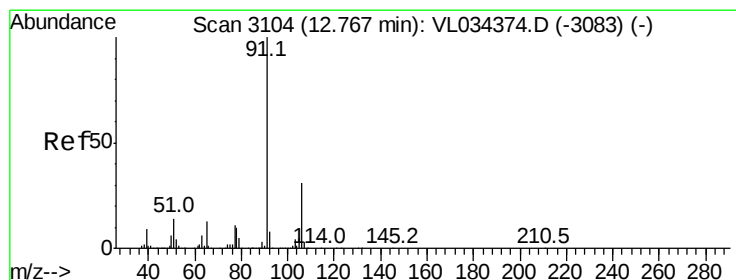
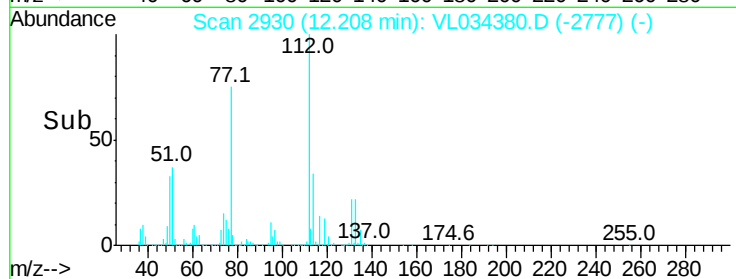
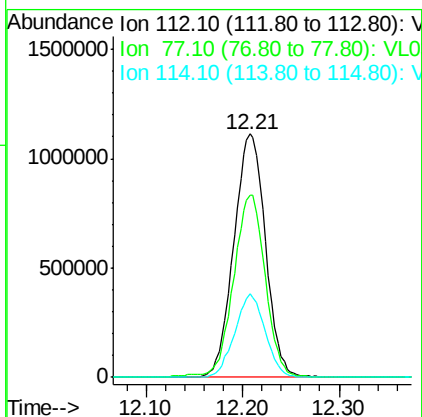
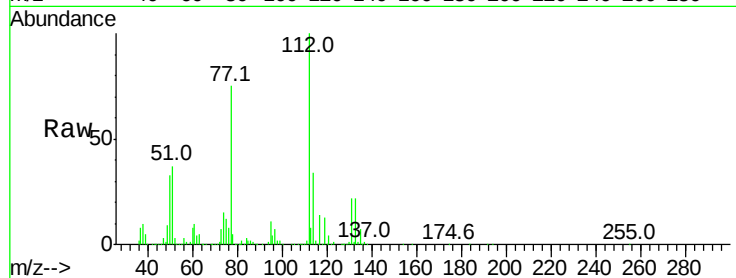




#57
Chlorobenzene
Concen: 13.698 ppbv
RT: 12.21 min Scan# 2930
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

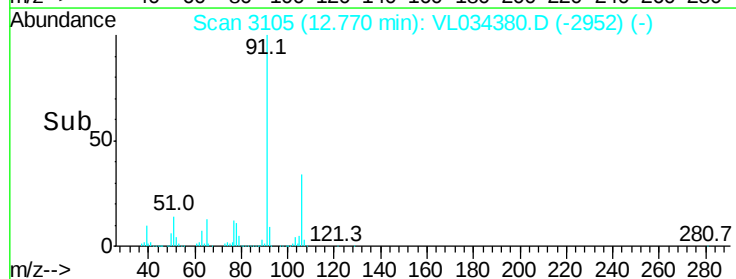
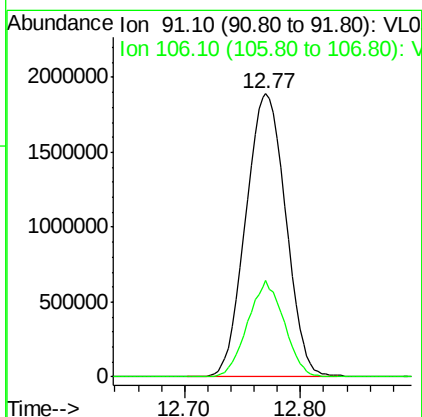
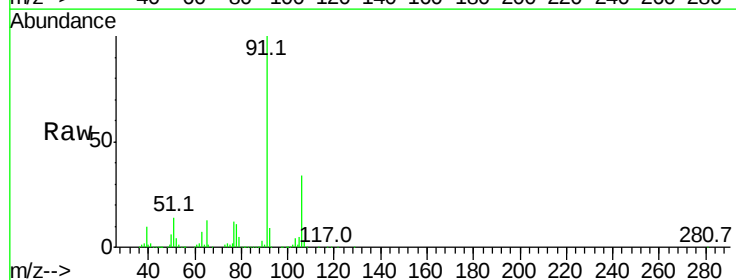
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

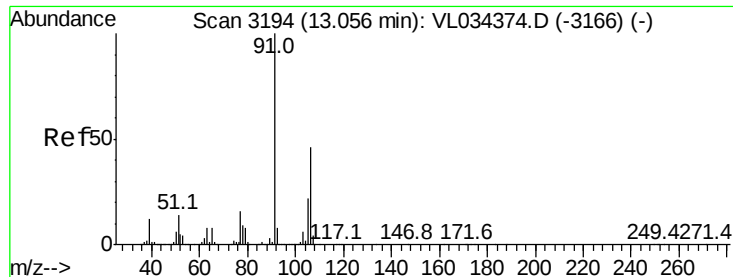
Tgt Ion: 112 Resp: 2530205
Ion Ratio Lower Upper
112 100
77 74.7 58.6 88.0
114 34.4 28.6 35.0



#58
Ethyl Benzene
Concen: 14.665 ppbv
RT: 12.77 min Scan# 3105
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 91 Resp: 4538997
Ion Ratio Lower Upper
91 100
106 34.0 25.3 37.9

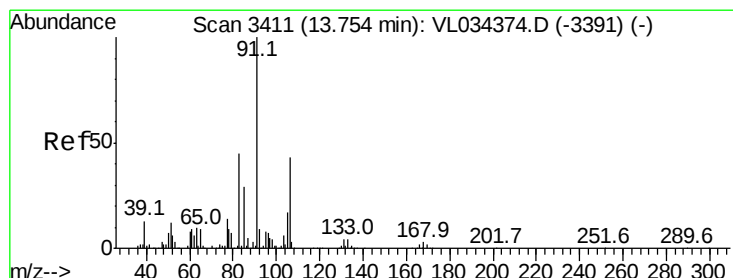
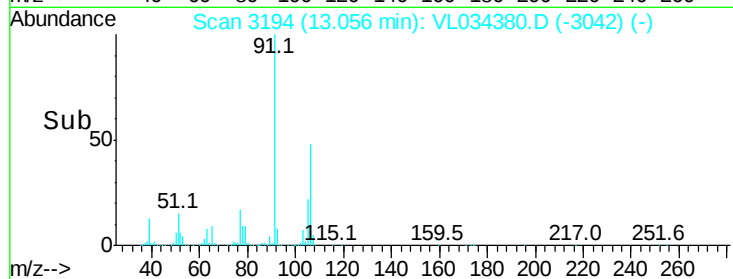
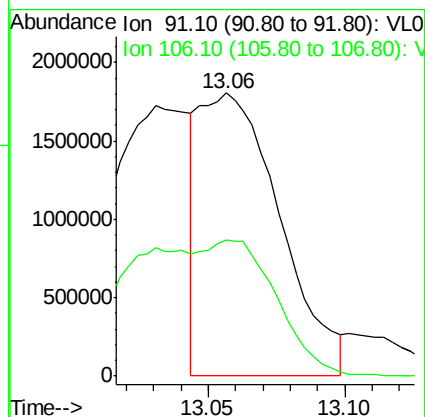
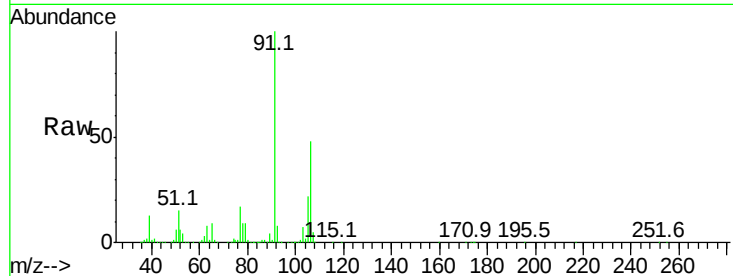




#59
m/p-Xylene
Concen: 13.677 ppbv
RT: 13.06 min Scan# 3194
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

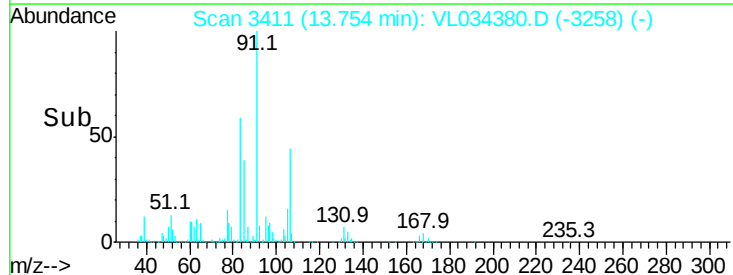
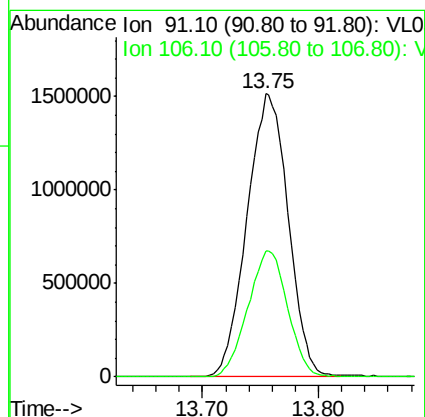
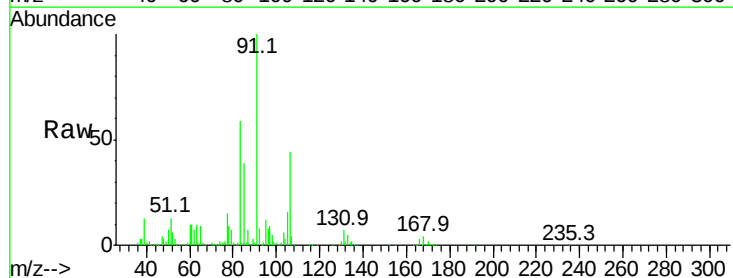
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

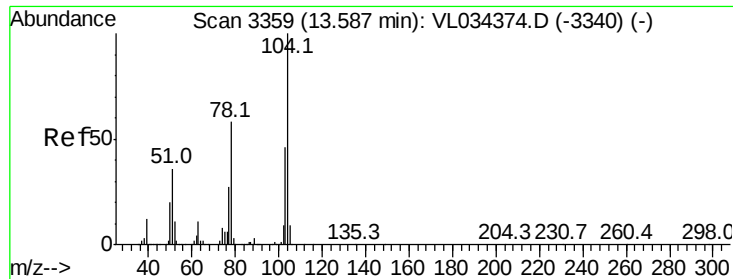
Tgt Ion: 91 Resp: 3667711
Ion Ratio Lower Upper
91 100
106 92.8 35.4 53.2#



#60
o-Xylene
Concen: 14.013 ppbv
RT: 13.75 min Scan# 3411
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 91 Resp: 3741912
Ion Ratio Lower Upper
91 100
106 43.1 21.6 64.6

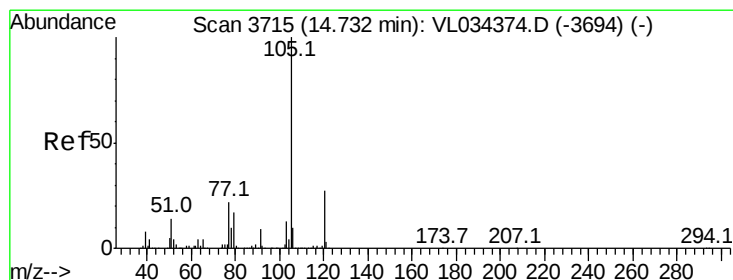
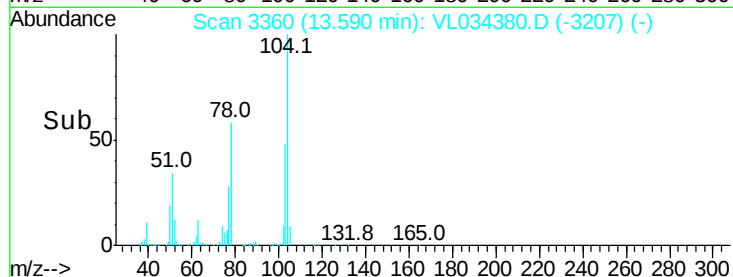
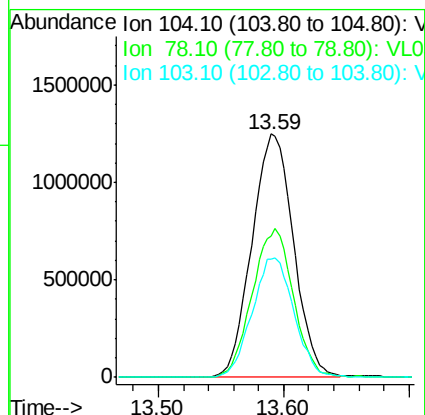
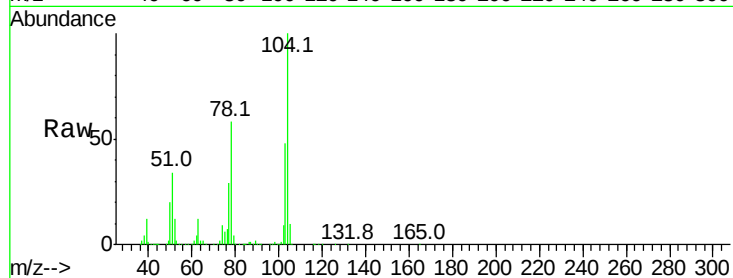




#61
Styrene
Concen: 15.338 ppbv
RT: 13.59 min Scan# 3360
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

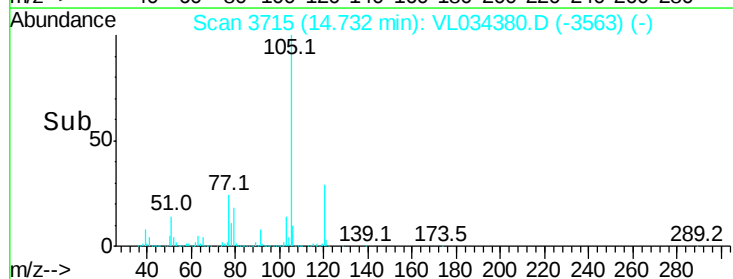
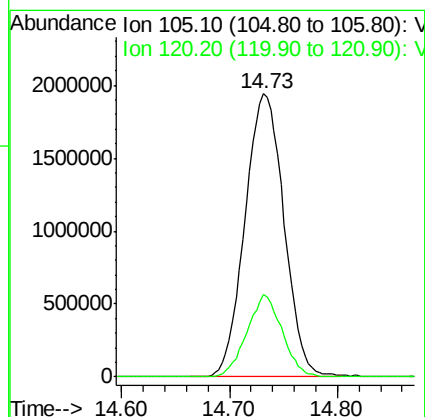
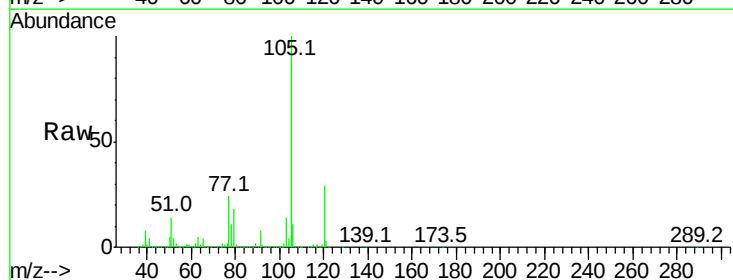
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

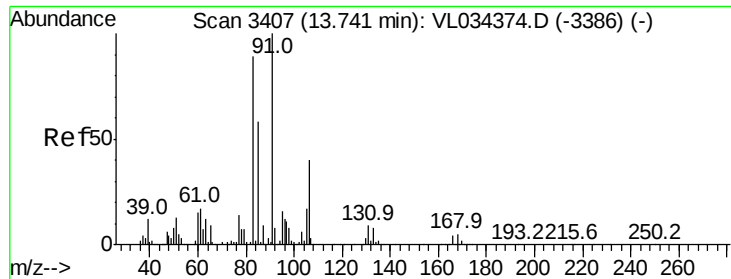
Tgt Ion:104 Resp: 2883479
Ion Ratio Lower Upper
104 100
78 60.5 47.8 71.8
103 49.2 39.0 58.6



#62
Isopropylbenzene
Concen: 13.849 ppbv
RT: 14.73 min Scan# 3715
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion:105 Resp: 4881728
Ion Ratio Lower Upper
105 100
120 26.5 20.8 31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 12.457 ppbv

RT: 13.74 min Scan# 3408

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

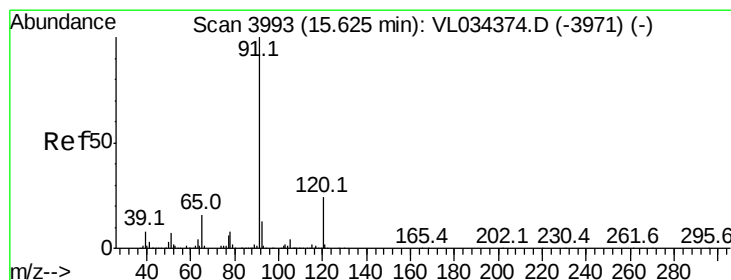
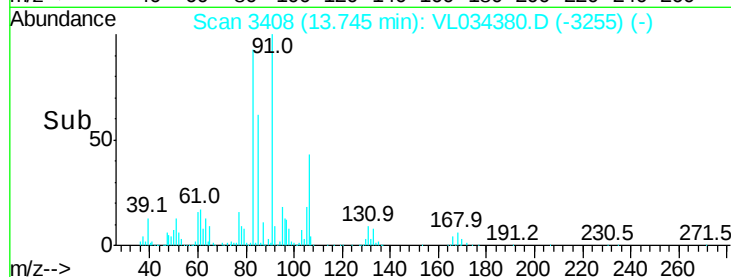
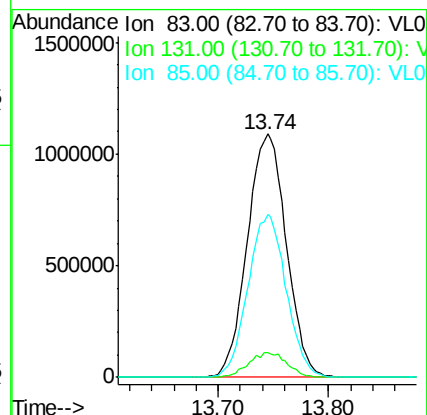
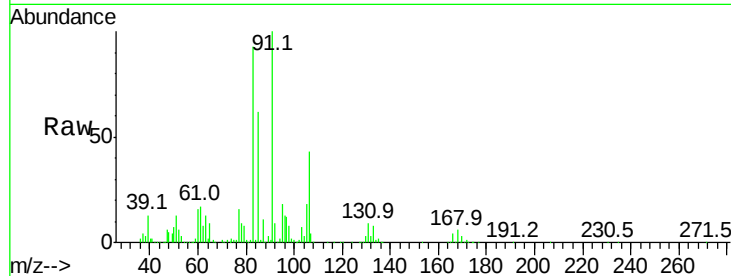
Tgt Ion: 83 Resp: 2672996

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.4
85	65.7	32.5	97.4

83 100

131 10.0 4.8 14.4

85 65.7 32.5 97.4



#64

n-propylbenzene

Concen: 14.761 ppbv

RT: 15.63 min Scan# 3995

Delta R.T. -0.00 min

Lab File: VL034380.D

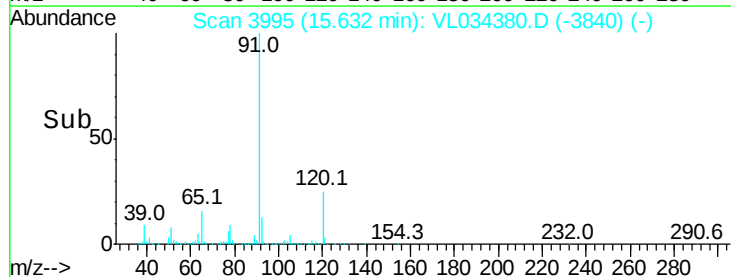
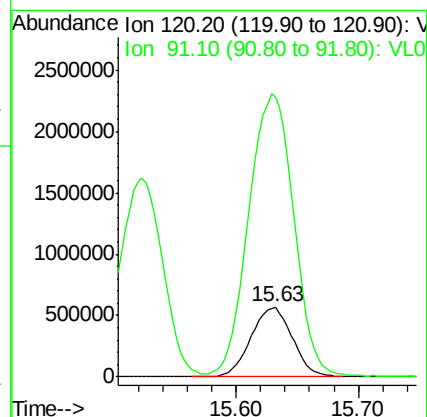
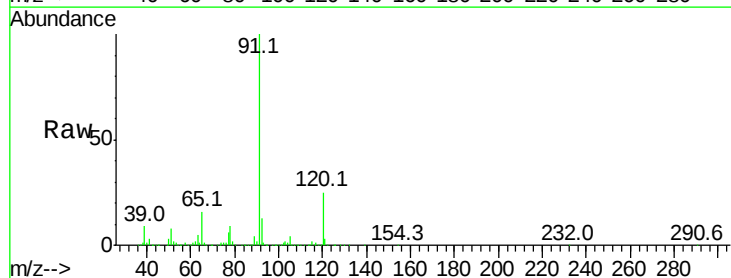
Acq: 19 Nov 2019 13:42

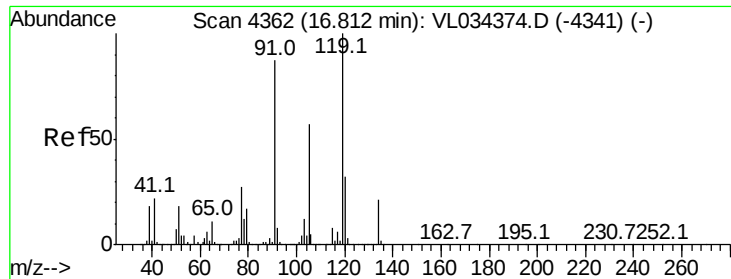
Tgt Ion: 120 Resp: 1335352

Ion	Ratio	Lower	Upper
120	100		
91	444.3	374.9	562.3

120 100

91 444.3 374.9 562.3





#65

tert-Butylbenzene

Concen: 13.961 ppbv

RT: 16.82 min Scan# 4363

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

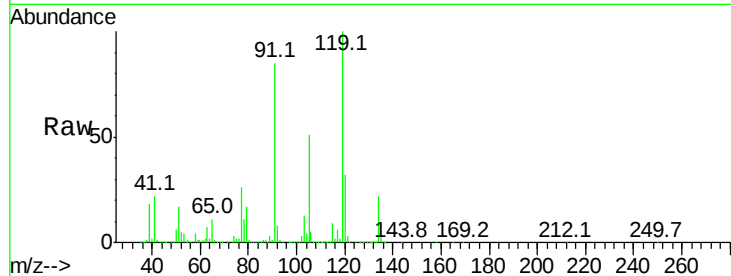
Tgt Ion: 119 Resp: 4361626

Ion Ratio Lower Upper

119 100

91 89.5 71.4 107.0

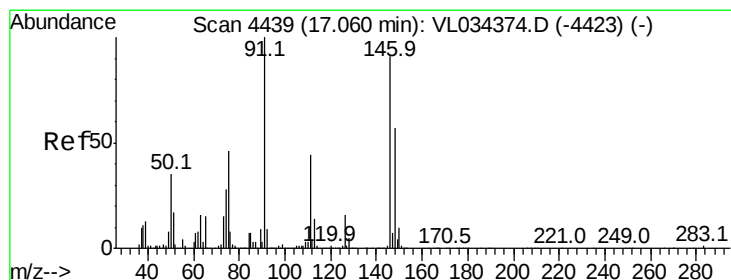
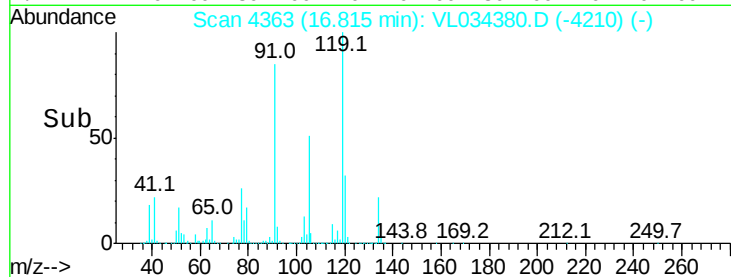
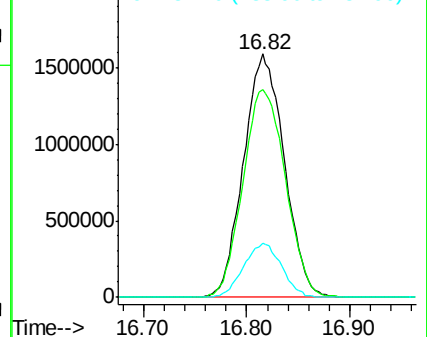
134 20.8 15.9 23.9



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: 18.619 ppbv

RT: 17.06 min Scan# 4440

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

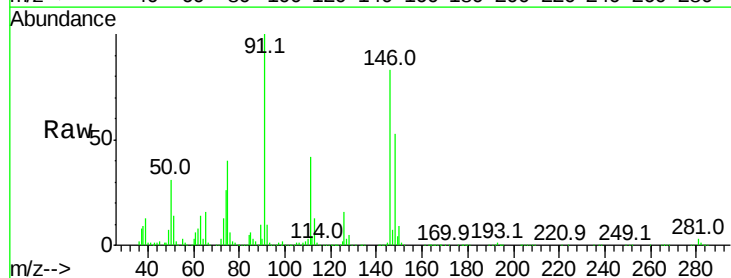
Tgt Ion: 91 Resp: 2297463

Ion Ratio Lower Upper

91 100

126 16.7 12.9 19.3

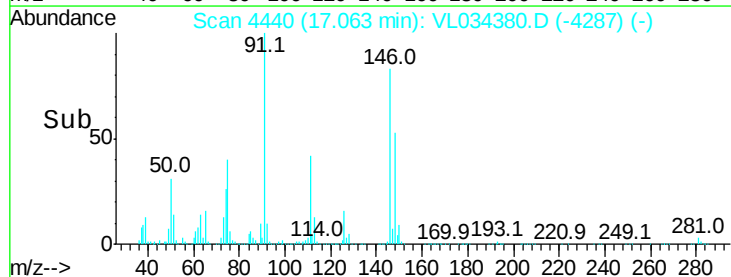
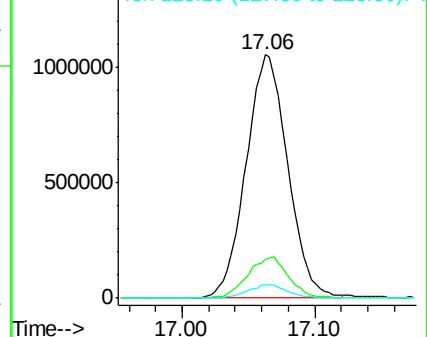
128 5.3 4.3 6.5

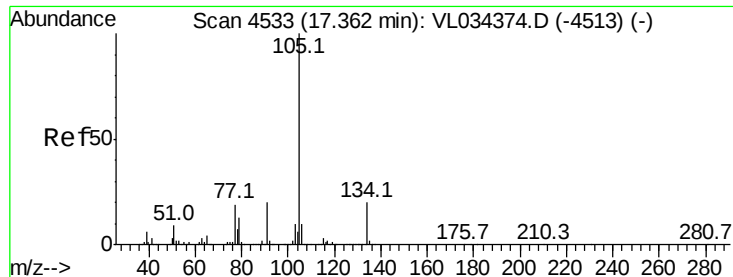


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 13.430 ppbv

RT: 17.36 min Scan# 4534

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

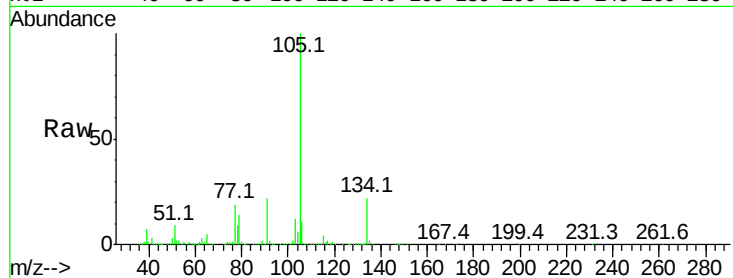
VSTDIC015

Tgt Ion:105 Resp: 5904454

Ion Ratio Lower Upper

105 100

134 19.9 15.4 23.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.36

2500000

2000000

1500000

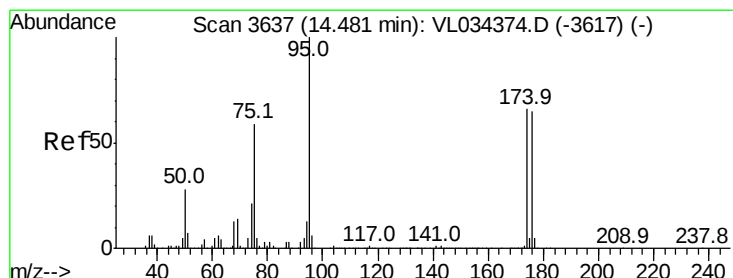
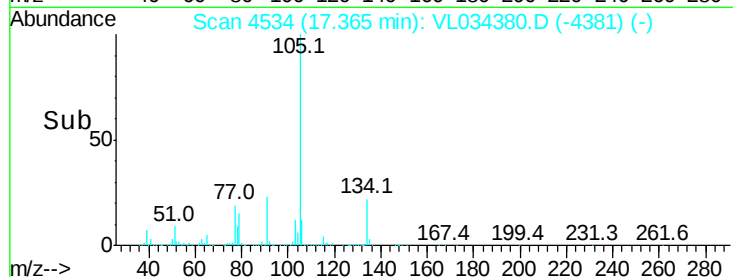
1000000

500000

0

Time-->

17.30 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 9.971 ppbv

RT: 14.48 min Scan# 3638

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

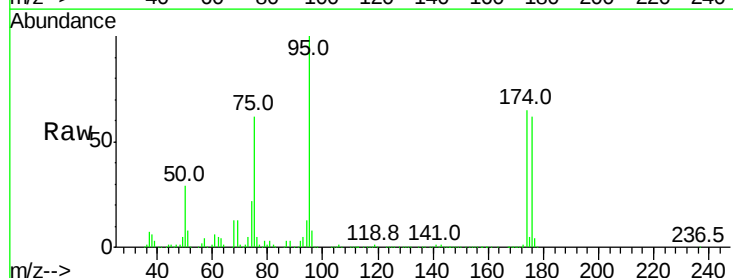
Tgt Ion: 95 Resp: 1869743

Ion Ratio Lower Upper

95 100

174 65.1 52.6 78.8

175 4.7 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.48

1000000

800000

600000

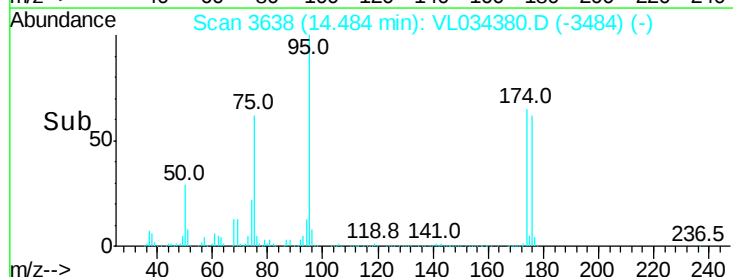
400000

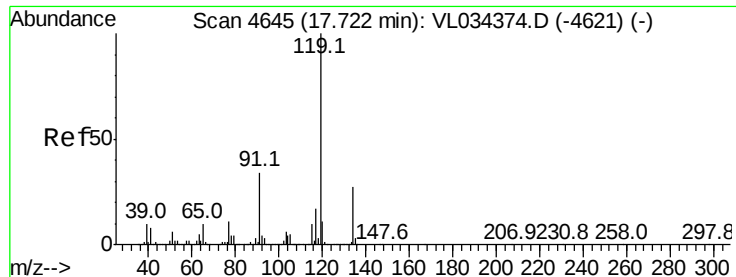
200000

0

Time-->

14.40 14.50





#69

p-Isopropyltoluene

Concen: 13.924 ppbv

RT: 17.72 min Scan# 4645

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

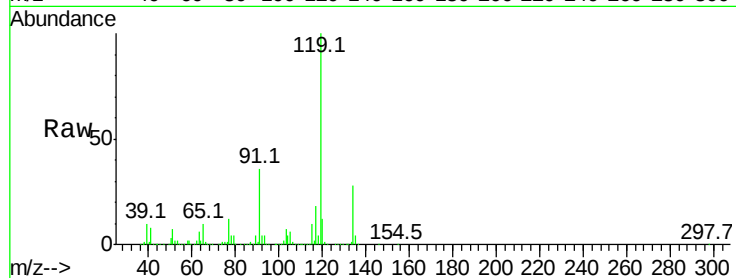
Tgt Ion: 119 Resp: 4990776

Ion Ratio Lower Upper

119 100

134 26.8 21.3 31.9

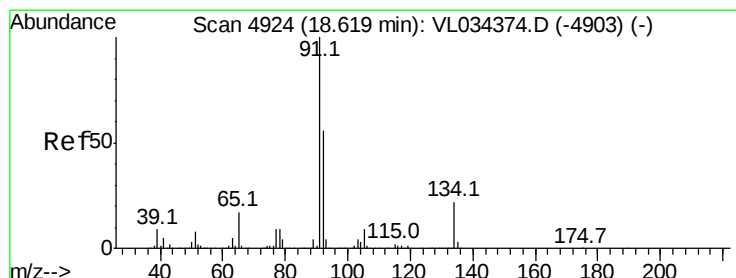
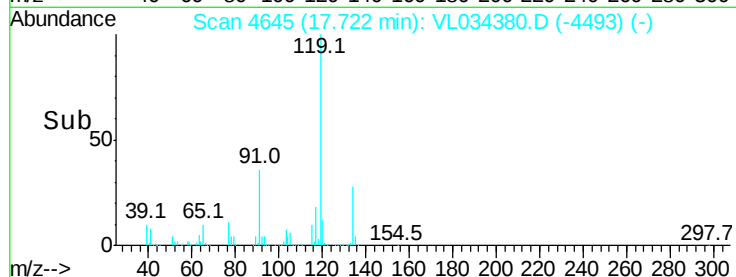
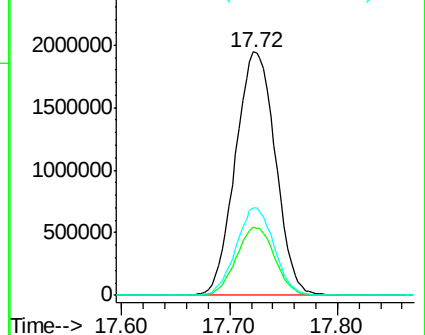
91 34.2 26.6 39.8



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 13.624 ppbv

RT: 18.62 min Scan# 4925

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

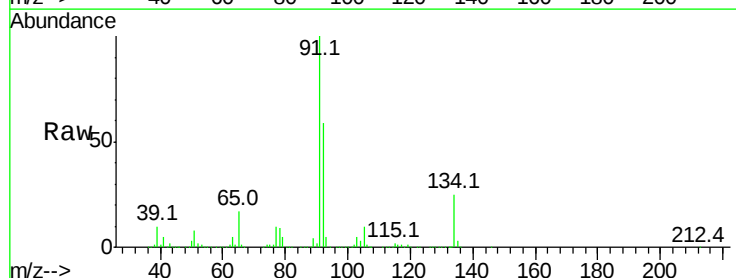
Tgt Ion: 91 Resp: 5313118

Ion Ratio Lower Upper

91 100

92 56.4 44.5 66.7

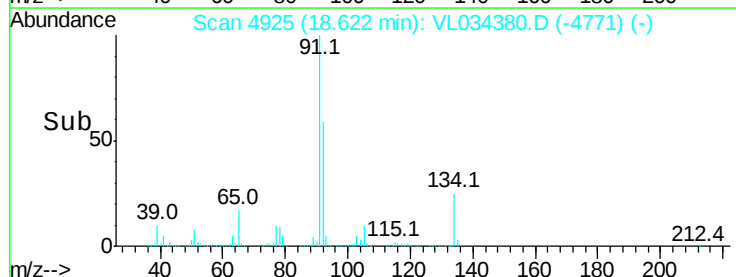
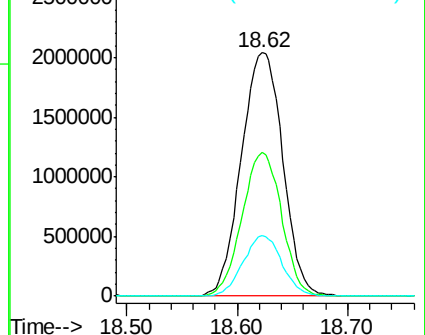
134 23.4 18.2 27.2

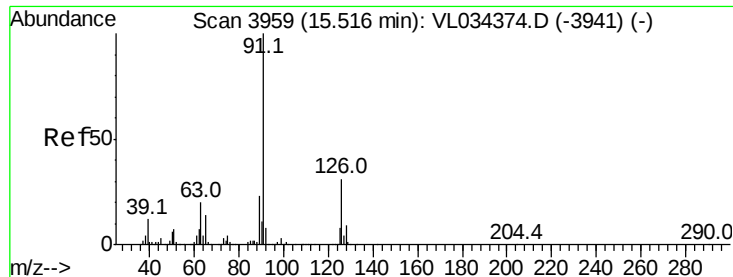


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 14.460 ppbv

RT: 15.52 min Scan# 3961

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

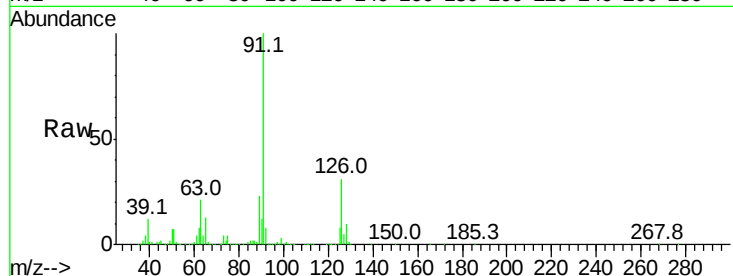
VSTDIC015

Tgt Ion: 91 Resp: 3952159

Ion Ratio Lower Upper

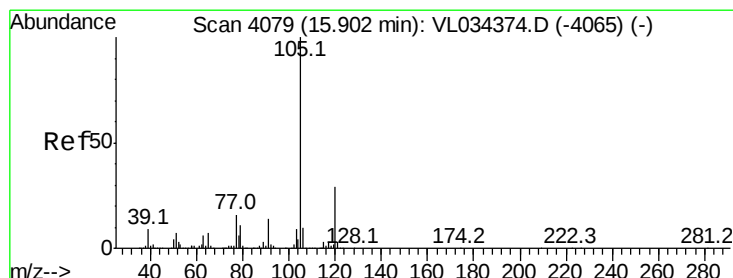
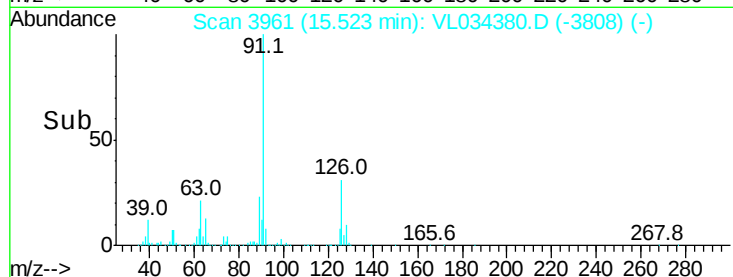
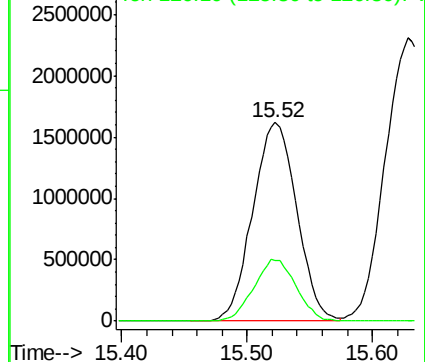
91 100

126 30.0 11.9 47.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 14.542 ppbv

RT: 15.91 min Scan# 4081

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Tgt Ion: 105 Resp: 4364936

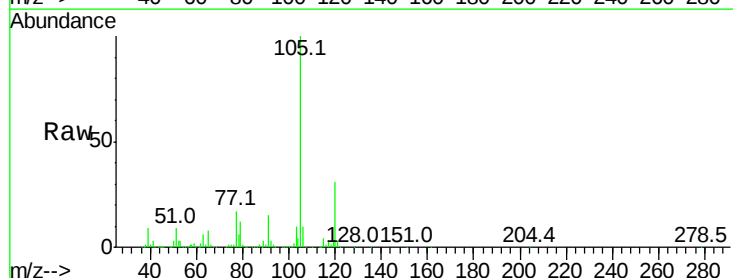
Ion Ratio Lower Upper

105 100

120 30.3 23.8 35.8

91 14.4 11.2 16.8

77 16.8 12.8 19.2

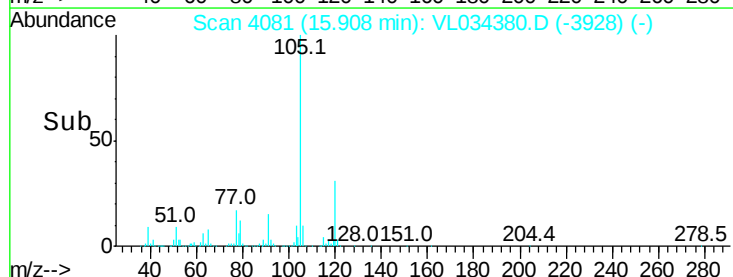
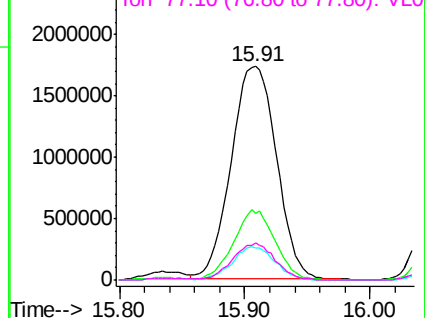


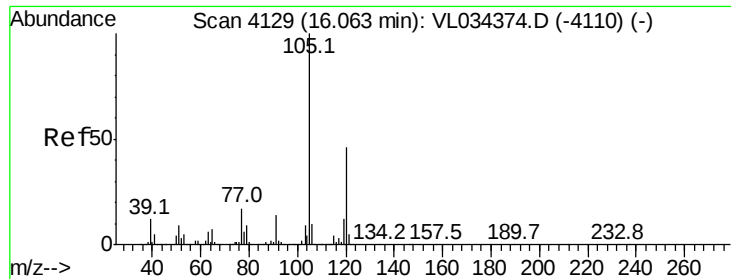
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

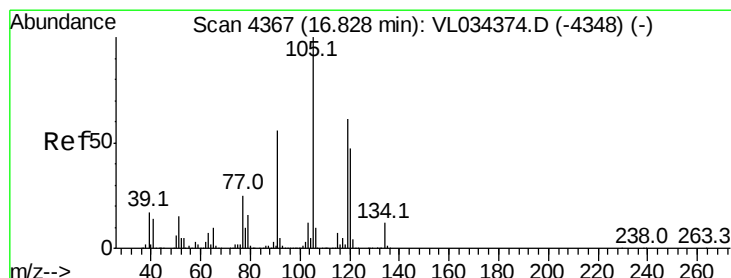
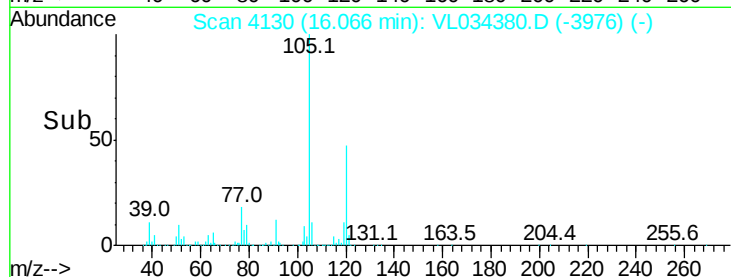
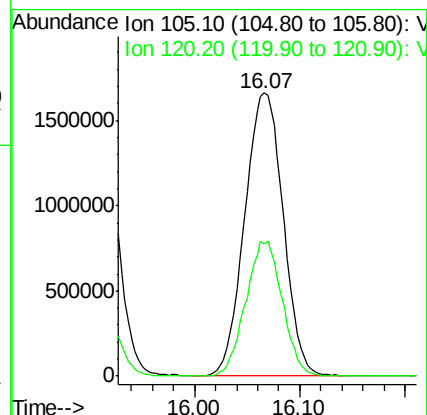
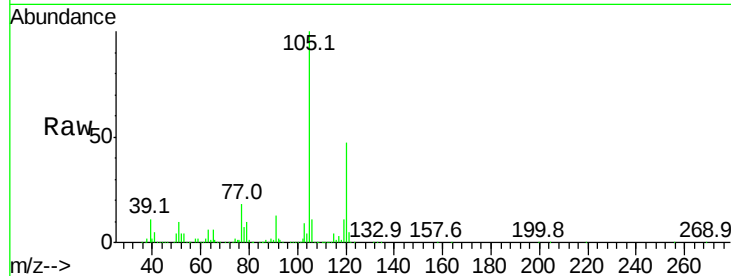




#73
 1,3,5-Trimethylbenzene
 Concen: 14.124 ppbv
 RT: 16.07 min Scan# 4130
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

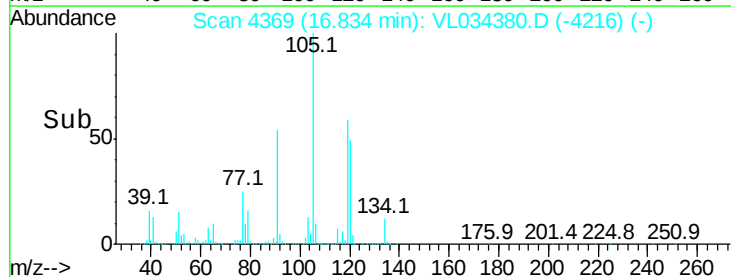
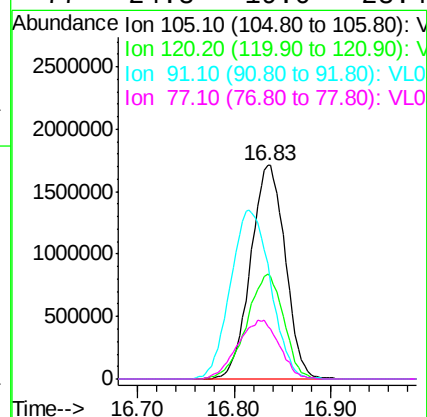
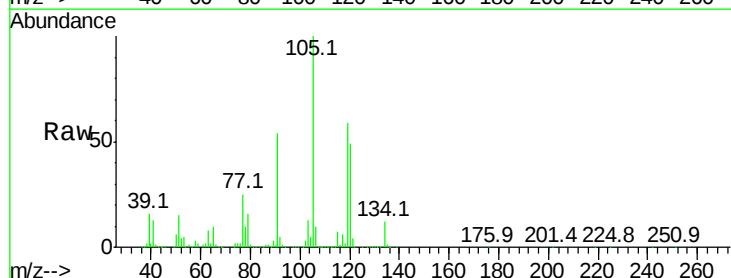
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

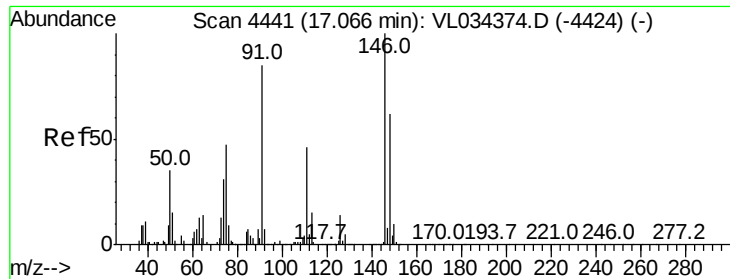
Tgt Ion:105 Resp: 4200604
 Ion Ratio Lower Upper
 105 100
 120 46.8 35.2 52.8



#74
 1,2,4-Trimethylbenzene
 Concen: 13.696 ppbv
 RT: 16.83 min Scan# 4369
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion:105 Resp: 4247692
 Ion Ratio Lower Upper
 105 100
 120 49.2 37.0 55.6
 91 53.6 38.2 57.2
 77 24.8 19.0 28.4

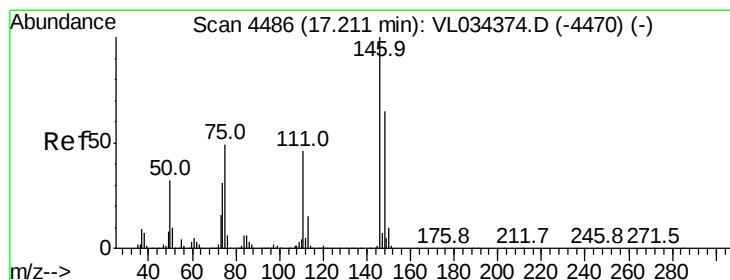
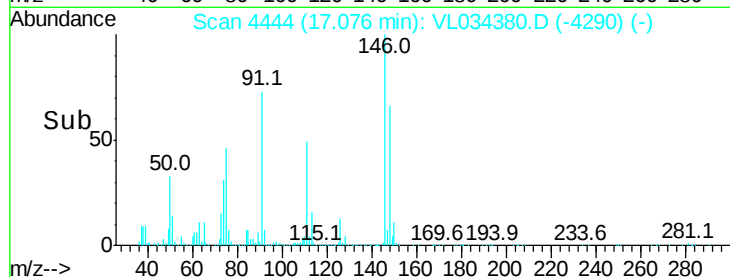
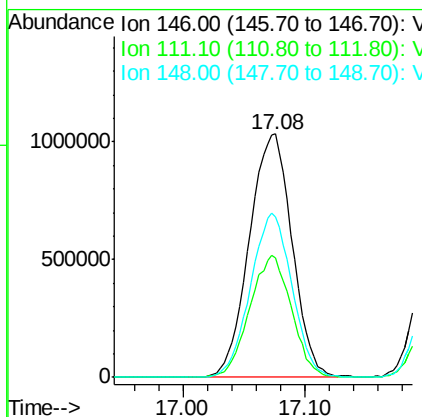
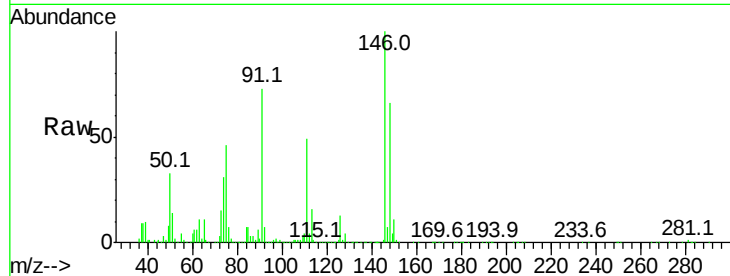




#75
 1,3-Dichlorobenzene
 Concen: 13.477 ppbv
 RT: 17.08 min Scan# 4444
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

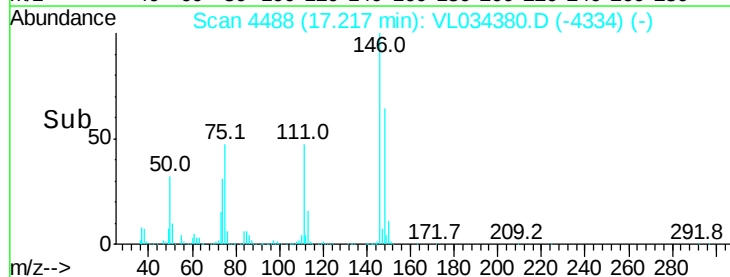
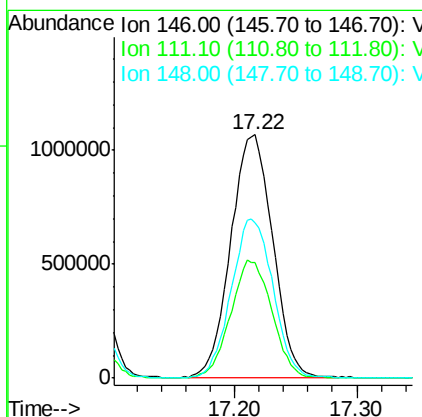
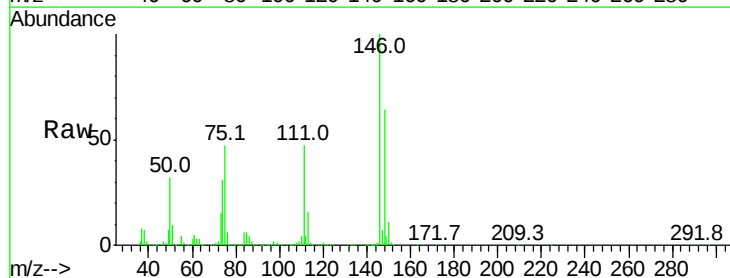
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

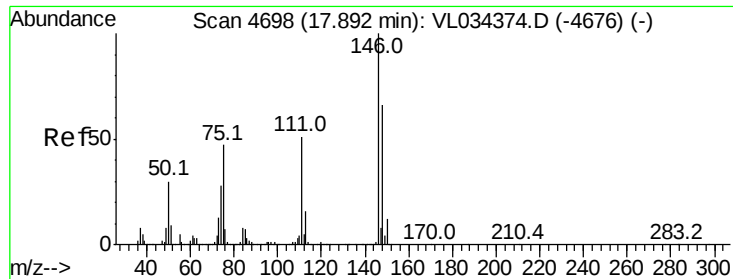
Tgt Ion:146 Resp: 2509618
 Ion Ratio Lower Upper
 146 100
 111 48.9 24.5 73.5
 148 65.7 32.3 96.8



#76
 1,4-Dichlorobenzene
 Concen: 13.924 ppbv
 RT: 17.22 min Scan# 4488
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion:146 Resp: 2532515
 Ion Ratio Lower Upper
 146 100
 111 47.9 23.9 71.7
 148 65.9 33.1 99.2





#77

1,2-Dichlorobenzene

Concen: 7.591 ppbv

RT: 17.89 min Scan# 4698

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

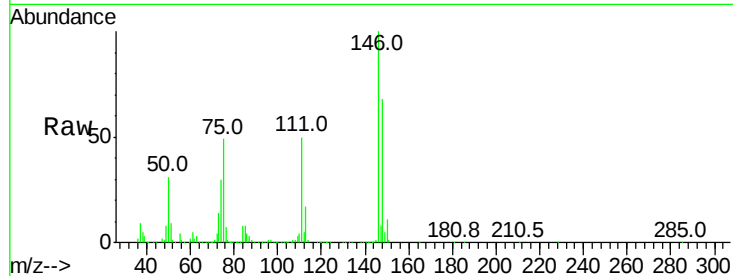
Tgt Ion:146 Resp: 1385869

Ion Ratio Lower Upper

146 100

111 0.0 25.1 75.3#

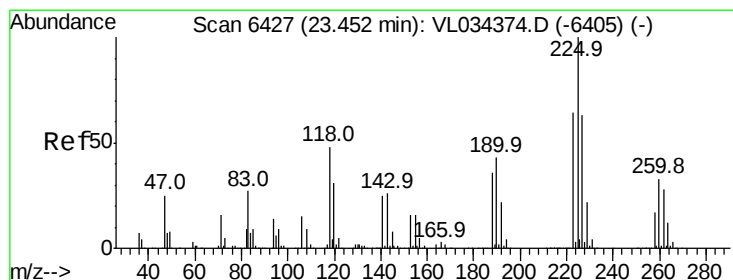
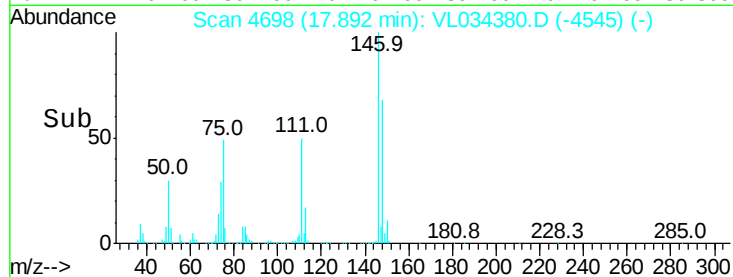
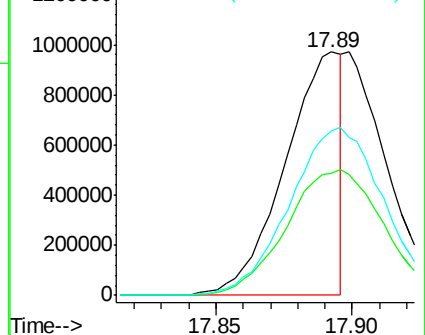
148 0.0 32.3 96.8#



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: 14.427 ppbv

RT: 23.45 min Scan# 6427

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

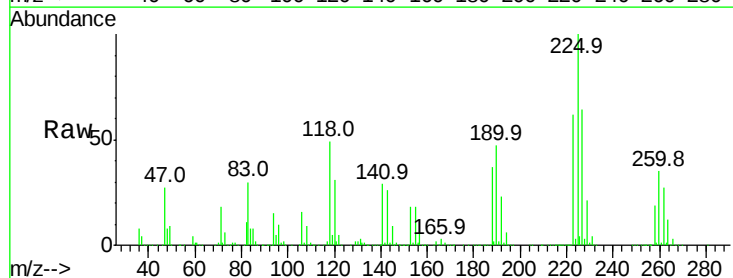
Tgt Ion:225 Resp: 2178634

Ion Ratio Lower Upper

225 100

223 63.7 50.8 76.2

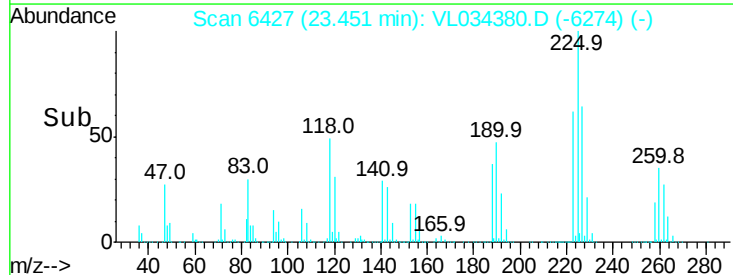
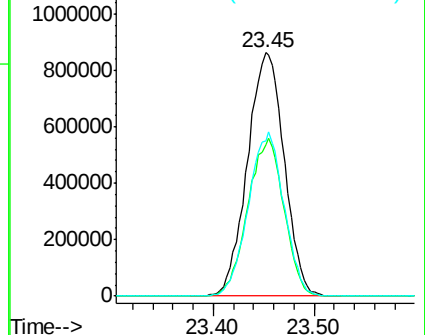
227 65.3 51.5 77.3

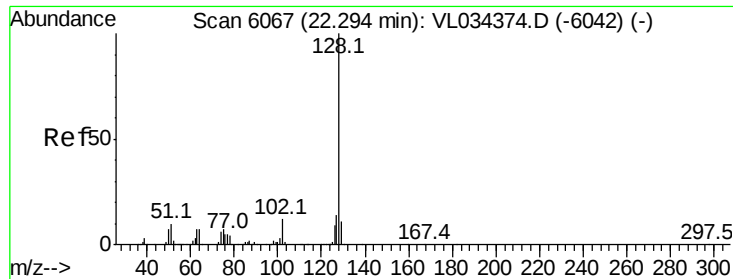


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

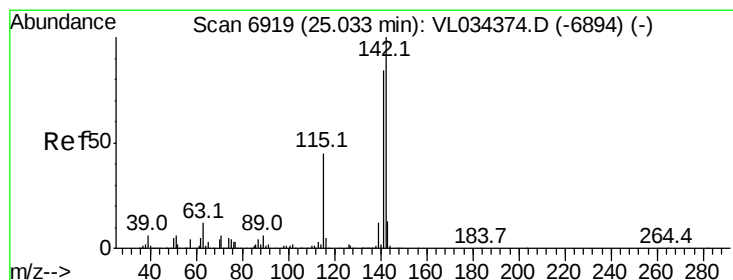
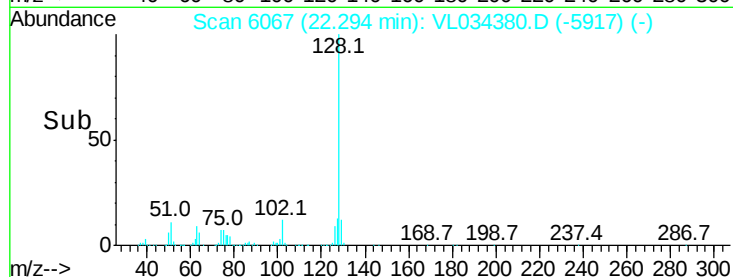
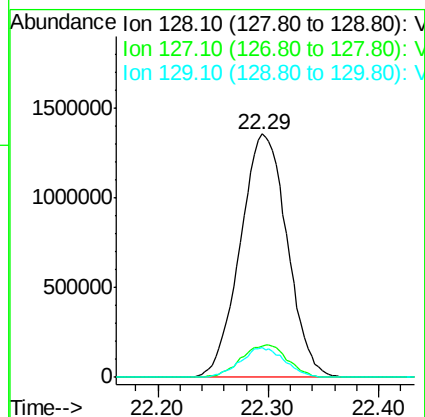
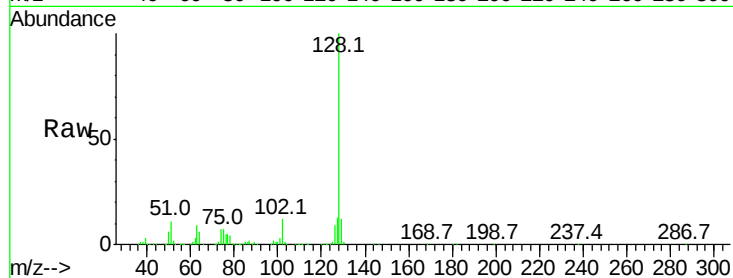




#79
Naphthalene
Concen: 17.524 ppbv
RT: 22.29 min Scan# 6067
Delta R.T. -0.02 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

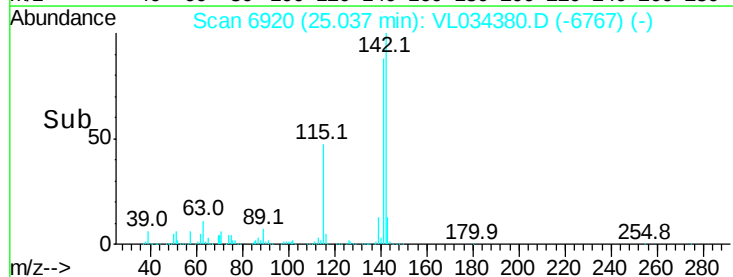
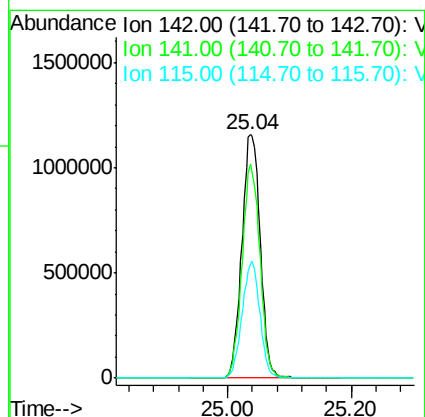
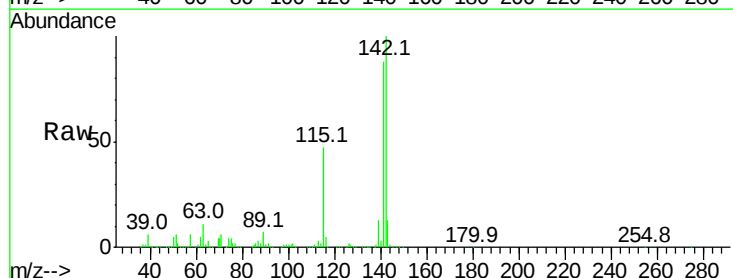
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

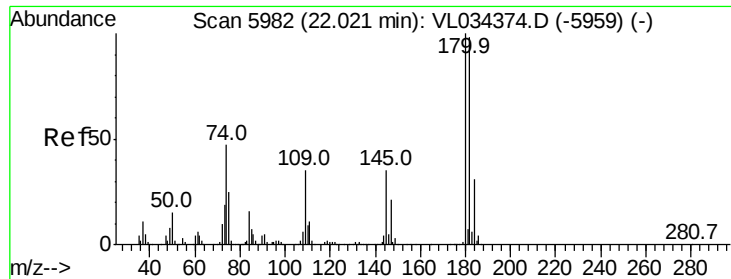
Tgt Ion:128 Resp: 3970155
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 12.2 8.9 13.3



#80
Naphthalene, 2-methyl-
Concen: 36.532 ppbv
RT: 25.04 min Scan# 6920
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion:142 Resp: 2392402
Ion Ratio Lower Upper
142 100
141 85.2 65.7 98.5
115 46.2 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 16.203 ppbv

RT: 22.02 min Scan# 5982

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

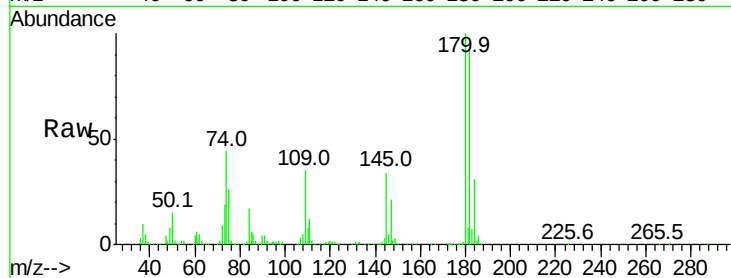
Tgt Ion:180 Resp: 2397547

Ion Ratio Lower Upper

180 100

182 95.8 77.8 116.8

184 31.4 25.4 38.2



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

