

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033231.D
 Acq On : 15 Feb 2019 14:12
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Quant Time: Feb 16 05:45:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 06 09:13:11 2019
 QLast Update : Wed Feb 06 09:13:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	812650	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1812438	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1988203	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1521677	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1521358	9.792	ppbv	97
3) Chlorodifluoromethane	3.02	51	965909	9.871	ppbv	96
4) Chloromethane	3.17	50	506620	9.805	ppbv	99
5) Vinyl Chloride	3.29	62	487612	9.031	ppbv	99
6) Bromomethane	3.52	94	297066	10.018	ppbv	99
7) Chloroethane	3.61	64	183449	10.401	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1189541	9.790	ppbv	98
9) Propene	3.04	41	423857	8.967	ppbv	100
10) Heptane	8.25	43	1266476	8.856	ppbv	100
11) Trichlorofluoromethane	4.01	101	1309980	10.415	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	858789	9.851	ppbv	99
13) Ethanol	3.65	45	92318	5.857	ppbv	97
14) Bromoethene	3.79	108	375788	9.998	ppbv	98
15) Acetone	3.91	43	855789	9.347	ppbv	99
16) 1,3-Butadiene	3.37	39	430331	9.902	ppbv	100
17) tert-Butyl alcohol	4.36	59	158395	9.074	ppbv	98
18) 1,1-Dichloroethene	4.36	96	379696	9.730	ppbv	96
19) Isopropyl Alcohol	4.02	45	533661	8.594	ppbv	# 99
20) Methylene Chloride	4.41	84	324683	8.915	ppbv	93
21) Allyl Chloride	4.48	41	606894	10.039	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	457127	12.063	ppbv	99
23) Vinyl Acetate	5.16	43	1815971	11.444	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1234300	10.997	ppbv	99
25) Ethyl Acetate	5.77	43	2101796	10.210	ppbv	99
26) Hexane	5.79	57	923463	9.556	ppbv	96
27) Carbon Disulfide	4.62	76	956851	10.808	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	1407150	10.656	ppbv	100
29) Chloroform	5.86	83	1531737	10.343	ppbv	98
30) Cyclohexane	7.25	84	770580	8.594	ppbv	96
31) cis-1,2-Dichloroethene	5.65	61	993249	10.269	ppbv	100
32) 1,1,1-Trichloroethane	6.63	97	1513093	9.279	ppbv	98
34) 2-Butanone	5.34	43	1433997	12.473	ppbv	98
35) Carbon Tetrachloride	7.14	117	1580789	11.420	ppbv	95
36) Benzene	7.01	78	1905344	10.373	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1221910	12.003	ppbv	99
38) Trichloroethene	7.97	130	711998	9.051	ppbv	97
39) 1,2-Dichloropropane	7.74	63	746451	10.290	ppbv	95
40) 1,4-Dioxane	7.96	88	250285	9.493	ppbv	# 1
41) Tetrahydrofuran	6.16	42	802137	11.272	ppbv	98
42) Bromodichloromethane	7.93	83	1710248	11.593	ppbv	100
43) Methyl Methacrylate	8.15	69	808157	10.959	ppbv	96

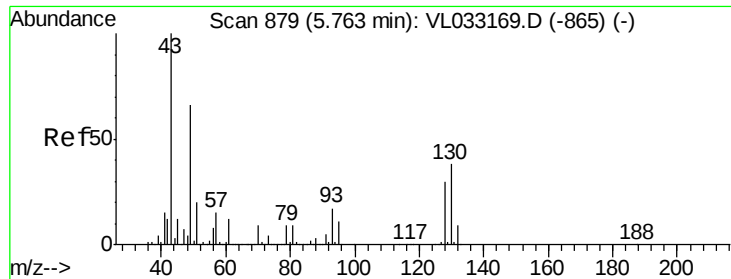
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
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 QLast Update : Wed Feb 06 09:13:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3286398	10.558	ppbv	98
45) t-1,3-Dichloropropene	9.43	75	1068978	13.048	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	1207024	11.567	ppbv	94
47) 1,1,2-Trichloroethane	9.62	97	787986	10.467	ppbv	94
48) Dibromochloromethane	10.46	129	1433880	12.098	ppbv	100
49) Bromoform	13.21	173	1274067	12.495	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2062899	11.190	ppbv	98
51) 2-Hexanone	10.28	43	1643815	11.309	ppbv	97
52) Tetrachloroethene	11.38	164	693920	9.833	ppbv	95
53) Toluene	9.96	91	2247686	10.334	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1292468	10.948	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.29	131	995226	10.906	ppbv #	61
57) Chlorobenzene	12.31	112	1682763	9.694	ppbv	94
58) Ethyl Benzene	12.88	91	3194335	9.927	ppbv	98
59) m/p-Xylene	13.16	91	5318232m	19.804	ppbv	
60) o-Xylene	13.86	91	2635177	10.091	ppbv	99
61) Styrene	13.70	104	1961710	9.959	ppbv	98
62) Isopropylbenzene	14.84	105	3671193	9.967	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	1843565	8.986	ppbv	99
64) n-propylbenzene	15.73	120	930536	9.940	ppbv	95
65) tert-Butylbenzene	16.92	119	3251580	10.137	ppbv	98
66) Benzyl Chloride	17.17	91	1690714	14.846	ppbv	98
67) sec-Butylbenzene	17.47	105	4668592	10.025	ppbv	99
69) p-Isopropyltoluene	17.83	119	3880902	10.006	ppbv	98
70) n-Butylbenzene	18.72	91	4218365	10.080	ppbv	99
71) 2-Chlorotoluene	15.63	91	2891710	9.992	ppbv	98
72) 4-Ethyltoluene	16.01	105	3059270	10.164	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	2934152	10.193	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	3008134	10.069	ppbv	93
75) 1,3-Dichlorobenzene	17.18	146	1707927	9.914	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	1731612	10.149	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	1708204	10.035	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1356566	16.009	ppbv	99
79) Naphthalene	22.42	128	3224843	10.047	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1504891	9.259	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1595377	9.782	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

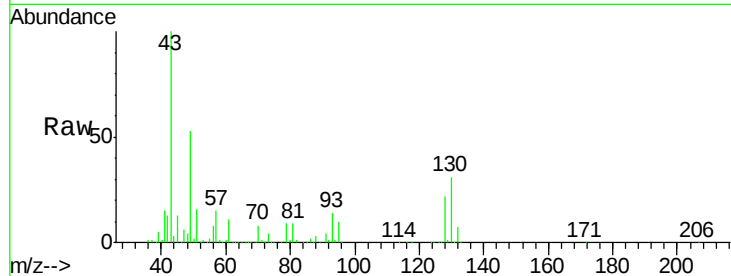
Tot Ion: 49 Resp: 812650

Ion Ratio Lower Upper

49 100

128 44.6 23.6 71.0

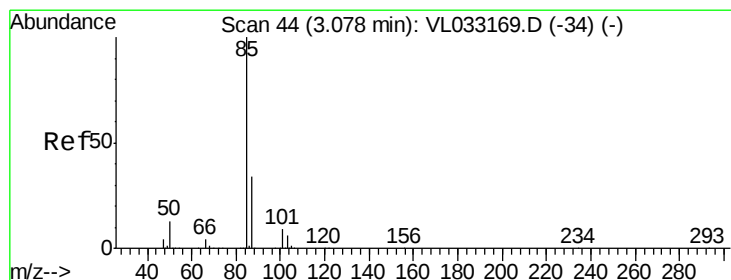
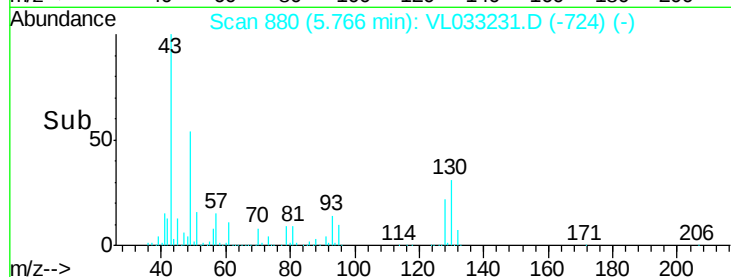
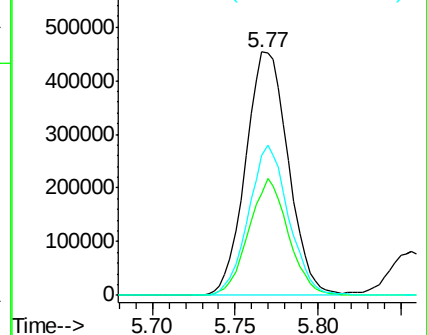
130 58.0 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.792 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL033231.D

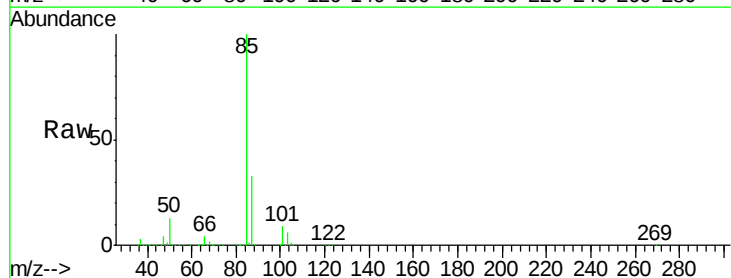
Acq: 15 Feb 2019 14:12

Tgt Ion: 85 Resp: 1521358

Ion Ratio Lower Upper

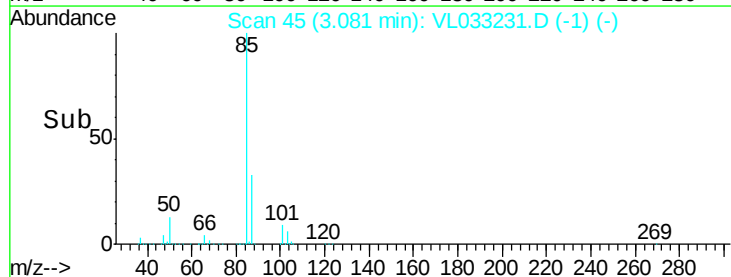
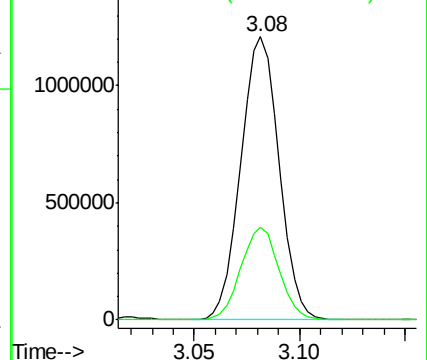
85 100

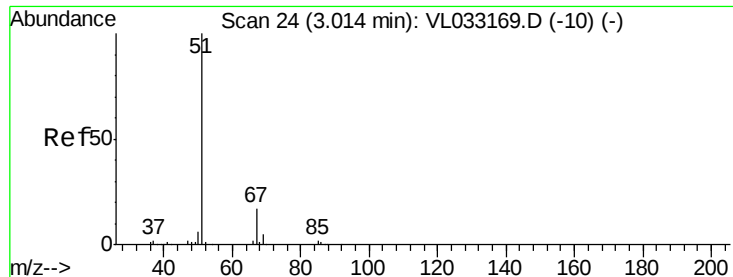
87 32.8 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.871 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

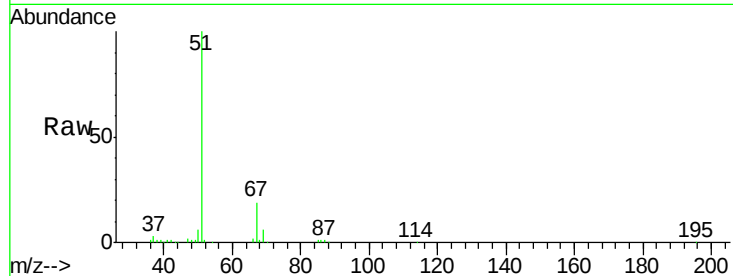
VSTDCCC010EC

Tot Ion: 51 Resp: 965909

Ion Ratio Lower Upper

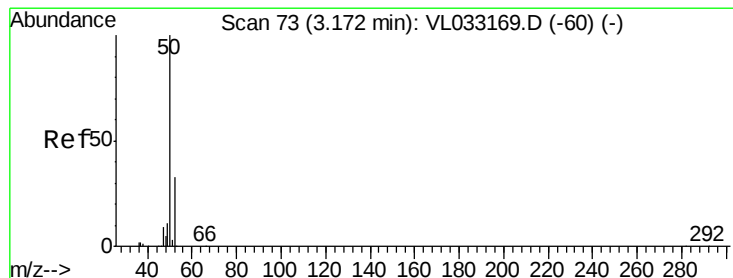
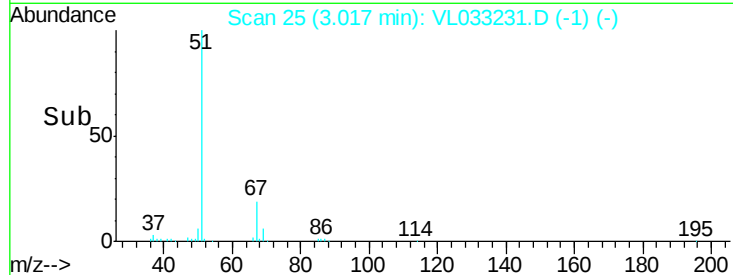
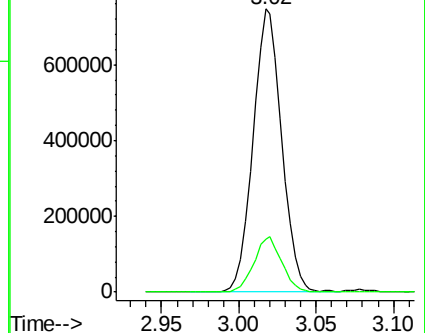
51 100

67 19.0 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.805 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033231.D

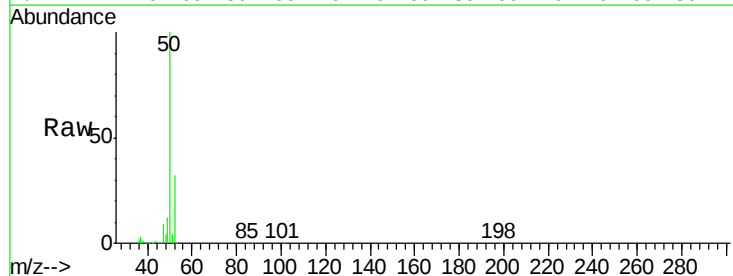
Acq: 15 Feb 2019 14:12

Tgt Ion: 50 Resp: 506620

Ion Ratio Lower Upper

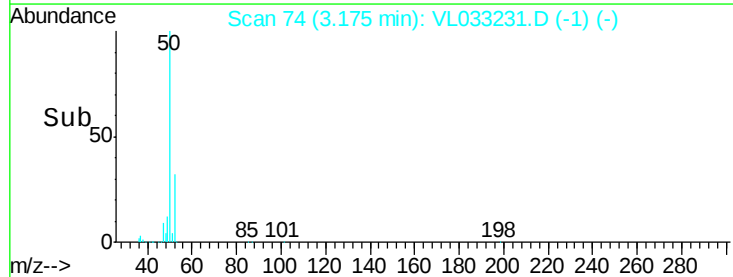
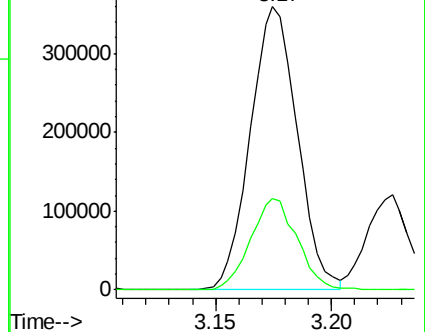
50 100

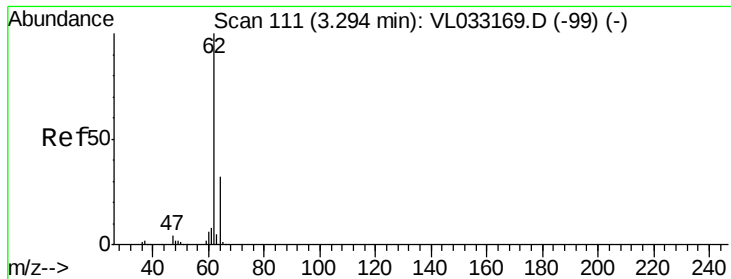
52 32.3 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.031 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

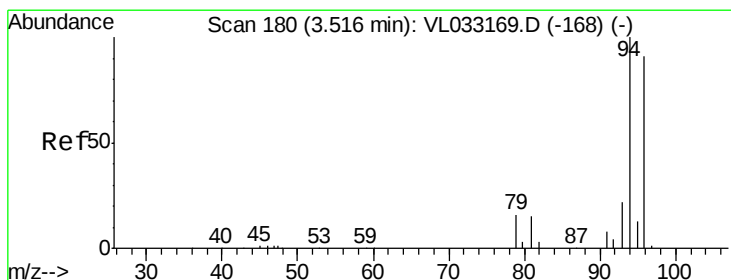
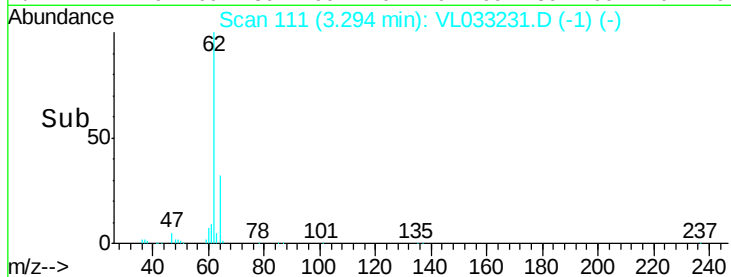
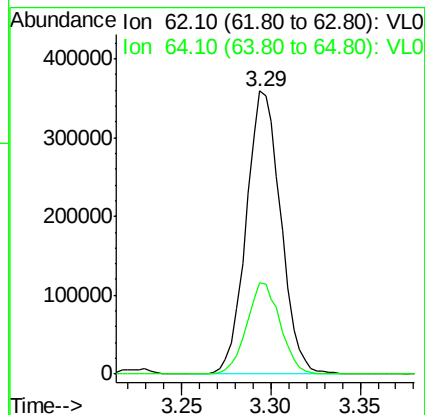
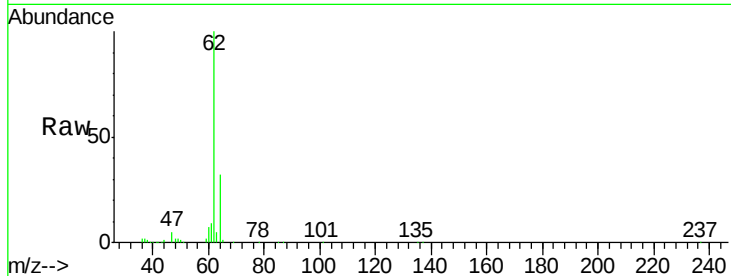
VSTDCCC010EC

Tot Ion: 62 Resp: 487612

Ion Ratio Lower Upper

62 100

64 32.3 25.6 38.4



#6

Bromomethane

Concen: 10.018 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL033231.D

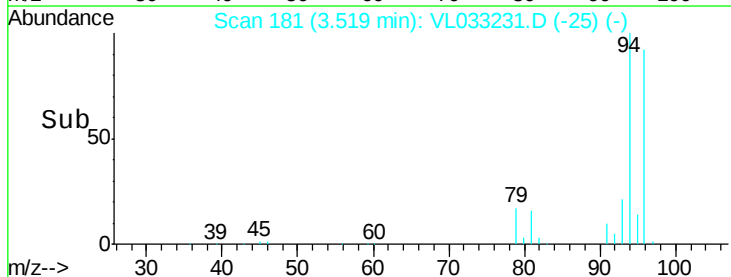
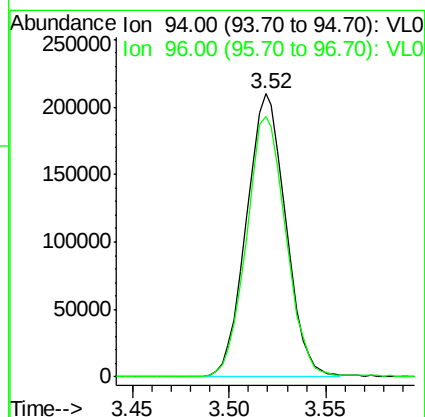
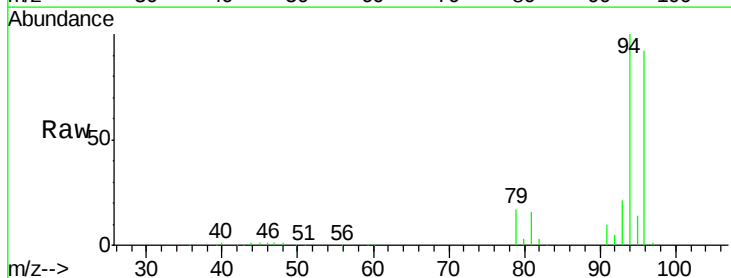
Acq: 15 Feb 2019 14:12

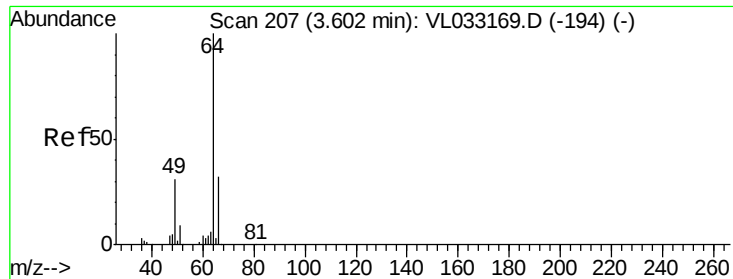
Tgt Ion: 94 Resp: 297066

Ion Ratio Lower Upper

94 100

96 92.0 73.2 109.8





#7

Chloroethane

Concen: 10.401 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

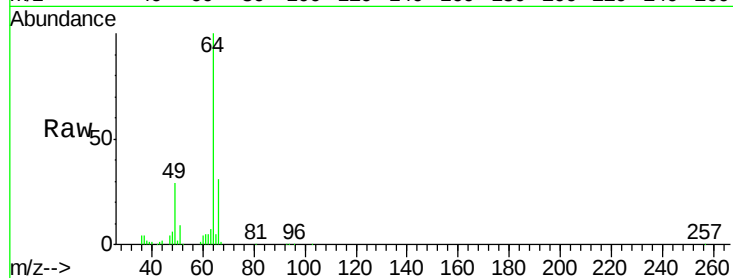
VSTDCCC010EC

Tot Ion: 64 Resp: 183449

Ion Ratio Lower Upper

64 100

66 31.5 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

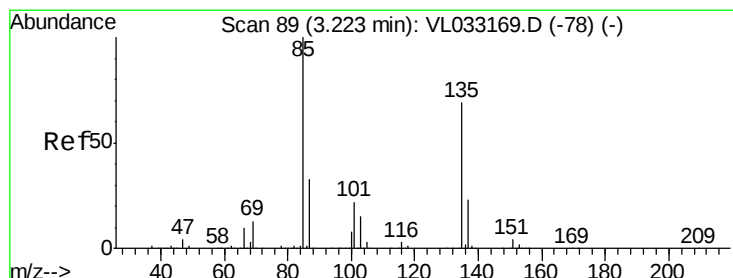
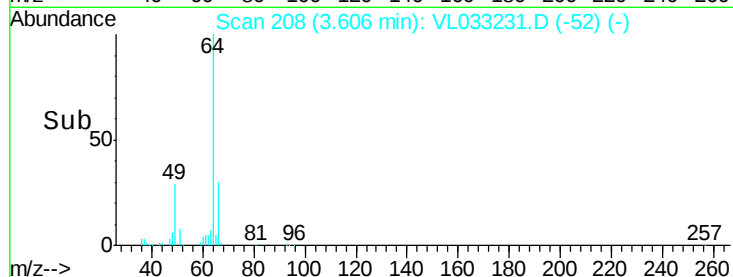
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.790 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL033231.D

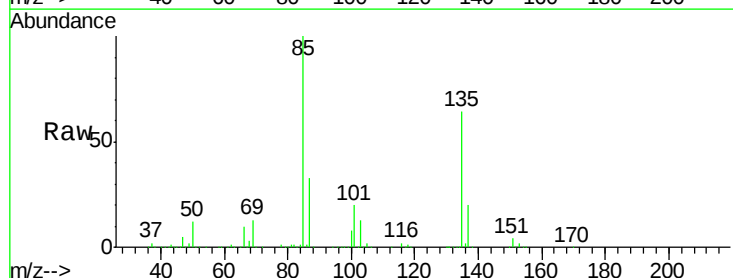
Acq: 15 Feb 2019 14:12

Tgt Ion: 85 Resp: 1189541

Ion Ratio Lower Upper

85 100

135 65.9 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

600000

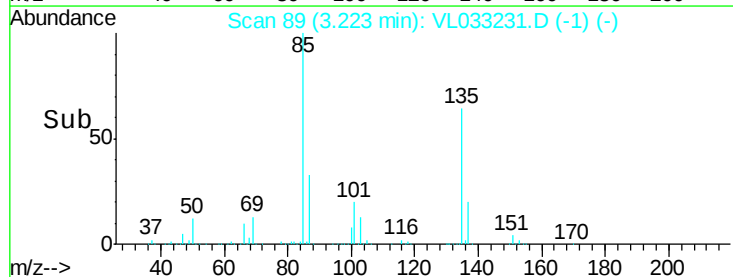
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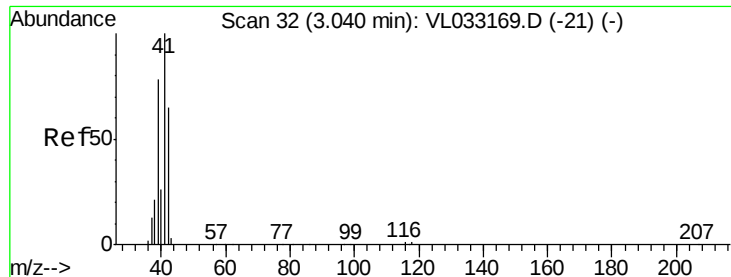
200000

0

3.15 3.20 3.25

Time-->





#9

Propene

Concen: 8.967 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

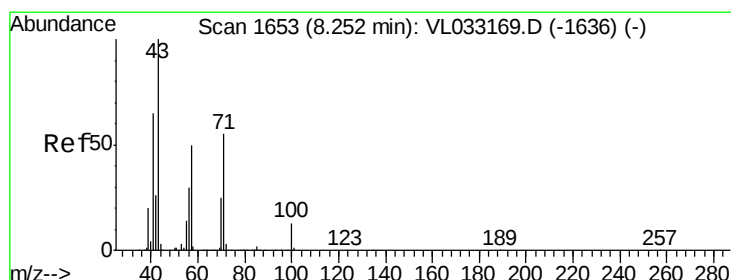
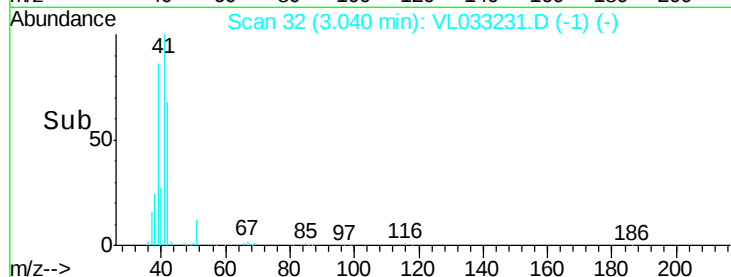
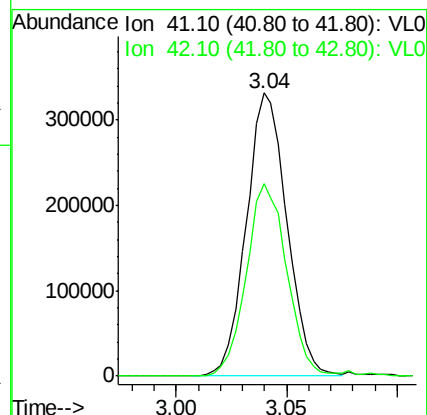
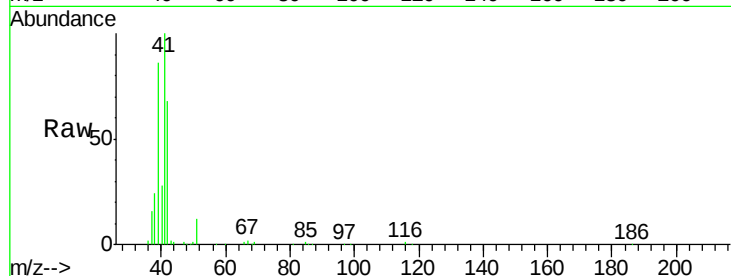
VSTDCCC010EC

Tot Ion: 41 Resp: 423857

Ion Ratio Lower Upper

41 100

42 68.6 55.0 82.6



#10

Heptane

Concen: 8.856 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL033231.D

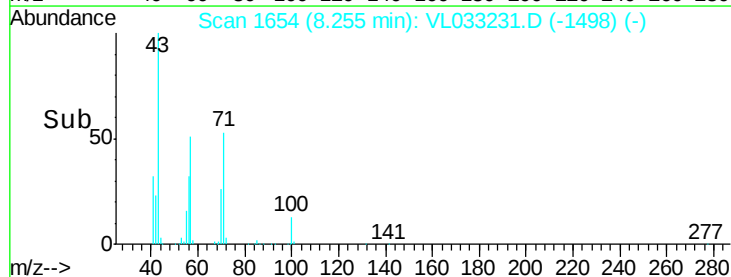
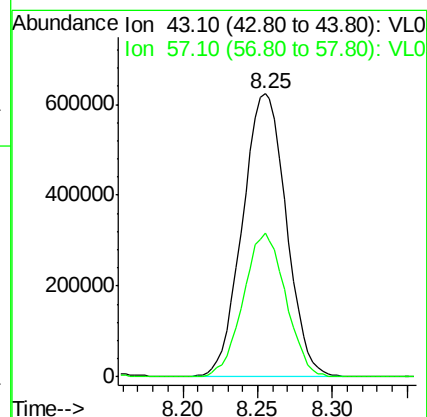
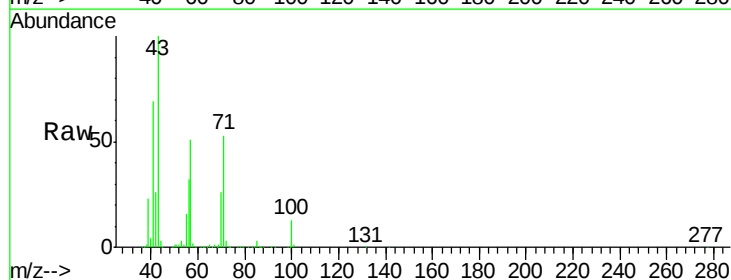
Acq: 15 Feb 2019 14:12

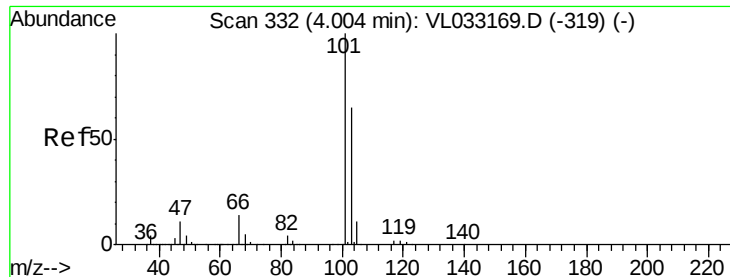
Tgt Ion: 43 Resp: 1266476

Ion Ratio Lower Upper

43 100

57 49.7 39.5 59.3

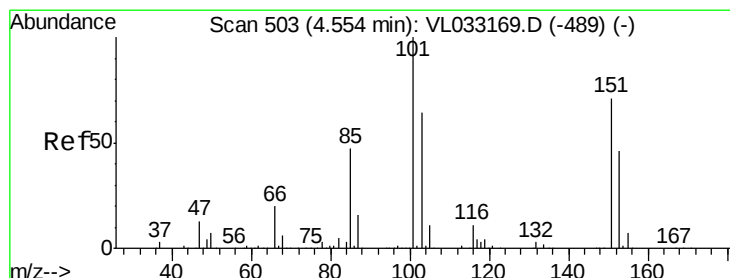
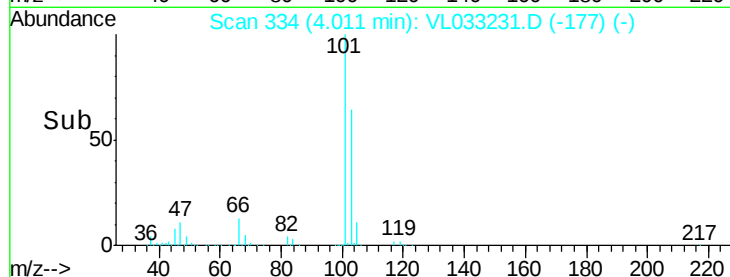
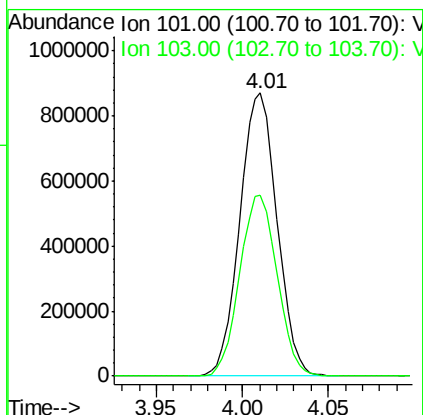
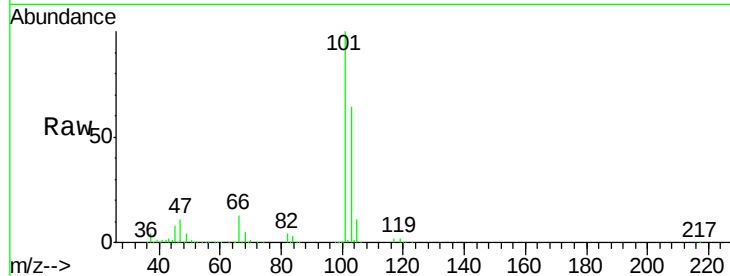




#11
 Trichlorofluoromethane
 Concen: 10.415 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.01 min
 Lab File: VL033231.D
 Acq: 15 Feb 2019 14:12

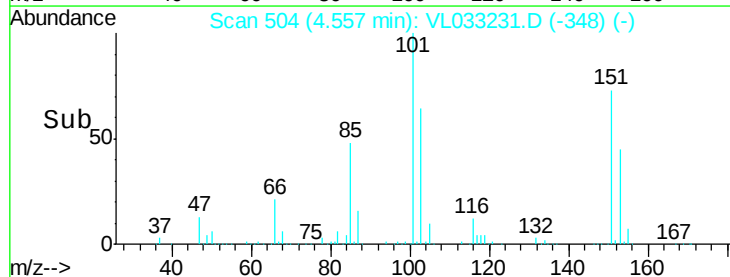
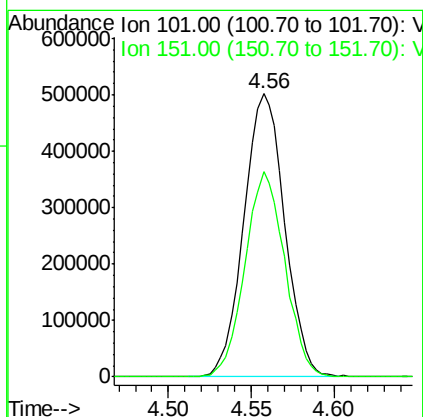
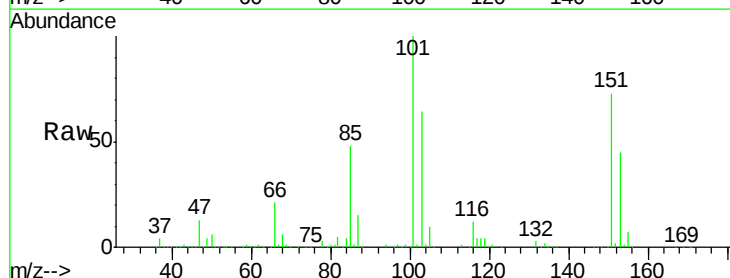
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

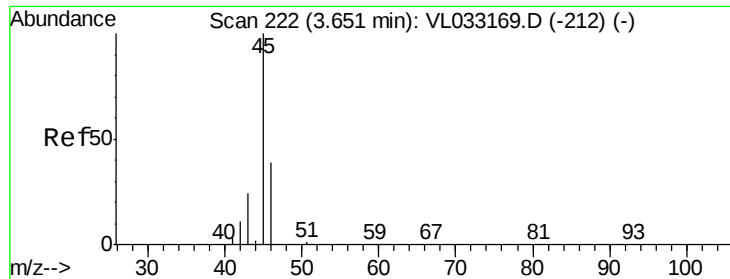
Tot Ion:101 Resp: 1309980
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.851 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VL033231.D
 Acq: 15 Feb 2019 14:12

Tgt Ion:101 Resp: 858789
 Ion Ratio Lower Upper
 101 100
 151 70.6 57.4 86.0





#13

Ethanol

Concen: 5.857 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

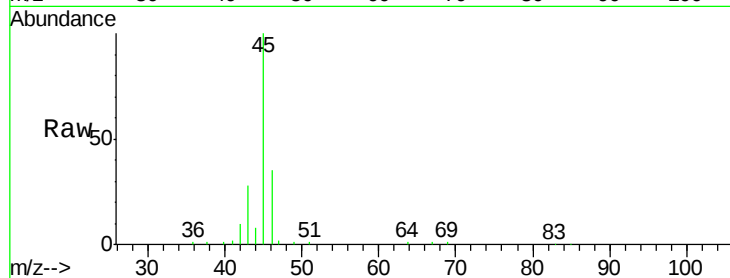
VSTDCCC010EC

Tot Ion: 45 Resp: 92318

Ion Ratio Lower Upper

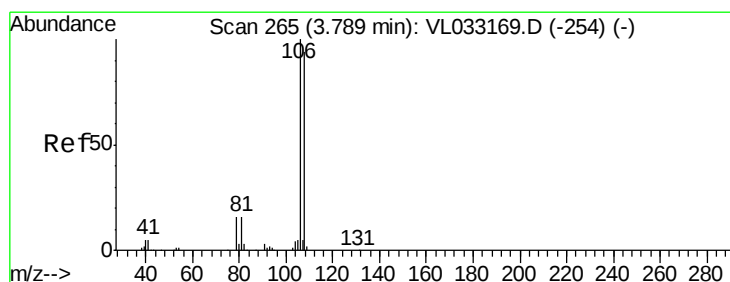
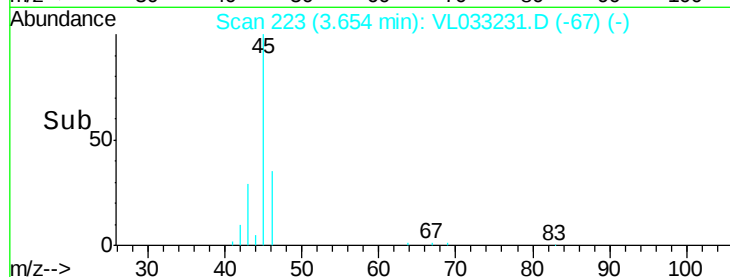
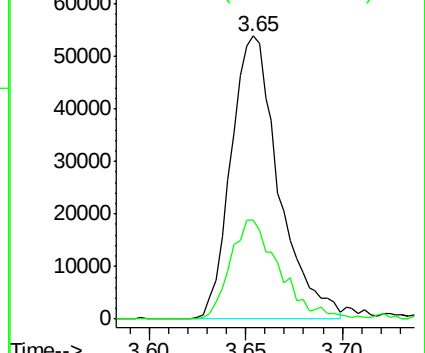
45 100

46 35.9 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 9.998 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

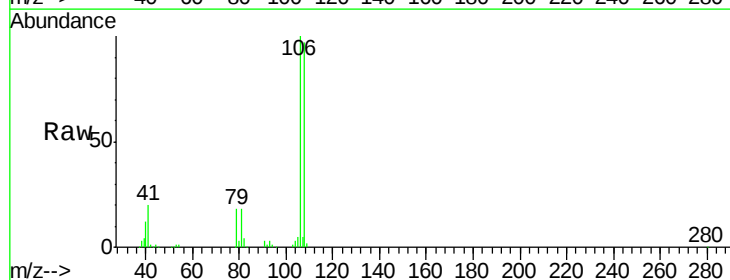
Tgt Ion: 108 Resp: 375788

Ion Ratio Lower Upper

108 100

106 105.8 86.0 129.0

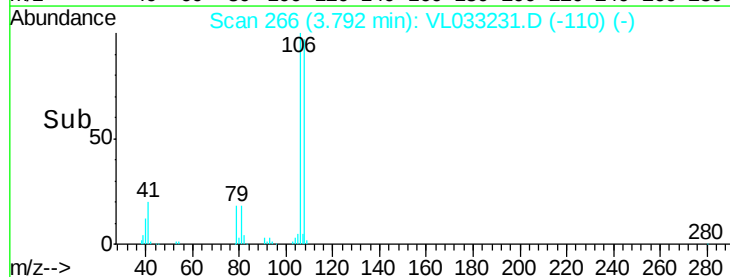
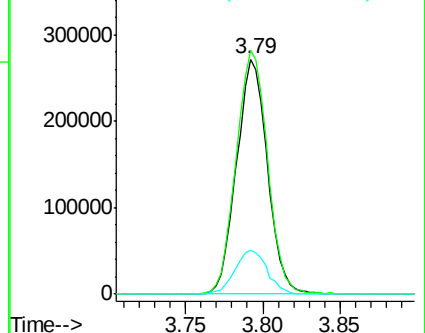
79 19.5 14.5 21.7

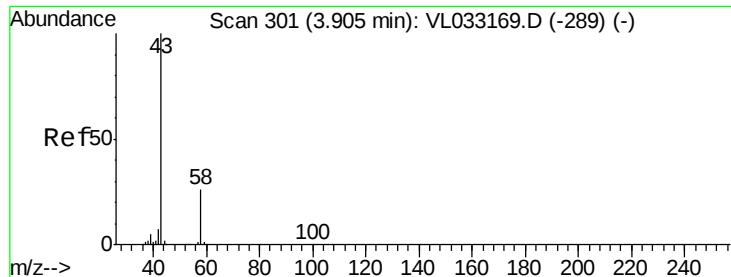


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 9.347 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

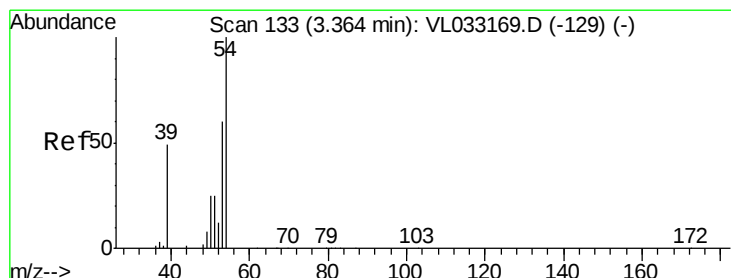
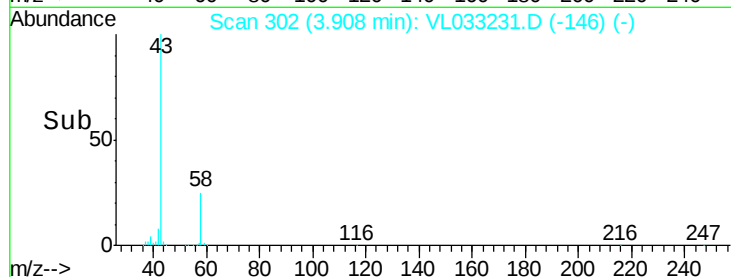
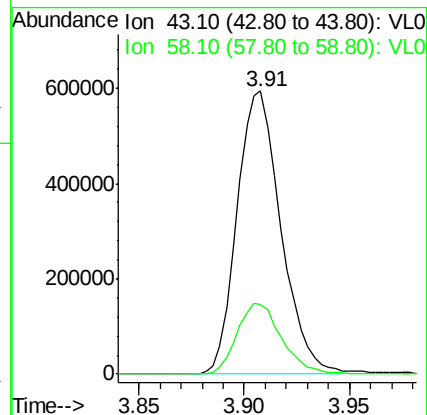
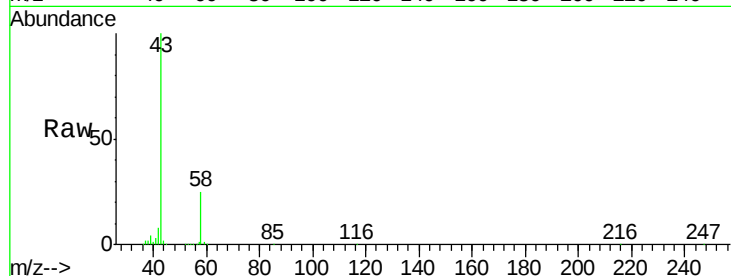
VSTDCCC010EC

Tot Ion: 43 Resp: 855789

Ion Ratio Lower Upper

43 100

58 25.8 21.1 31.7



#16

1,3-Butadiene

Concen: 9.902 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL033231.D

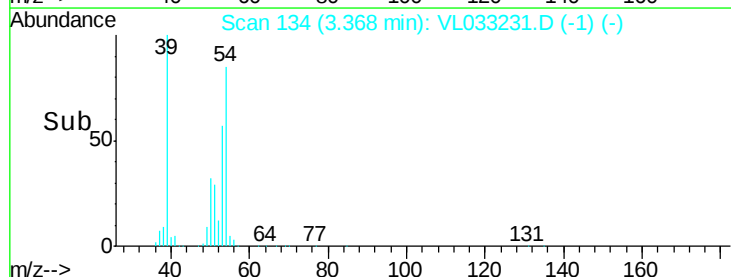
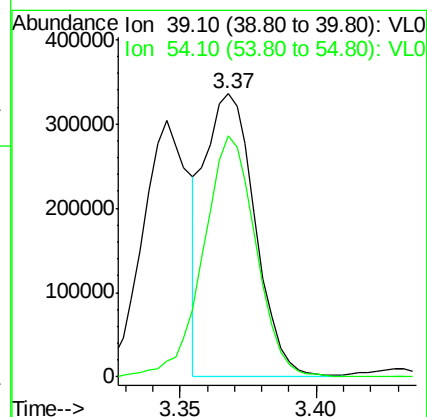
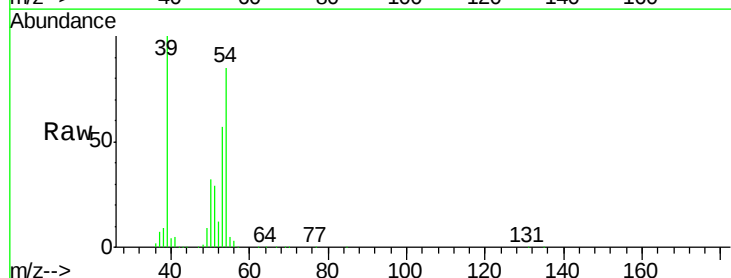
Acq: 15 Feb 2019 14:12

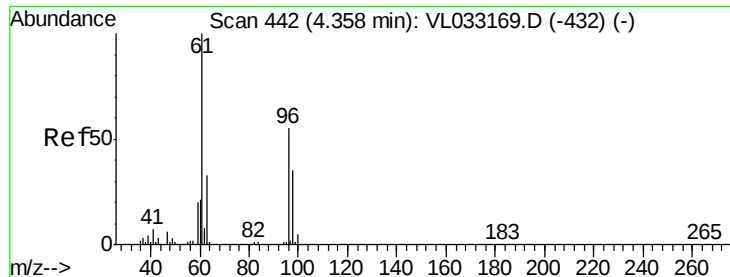
Tgt Ion: 39 Resp: 430331

Ion Ratio Lower Upper

39 100

54 89.1 71.3 106.9



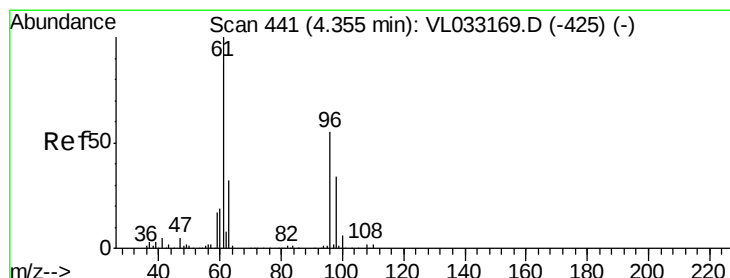
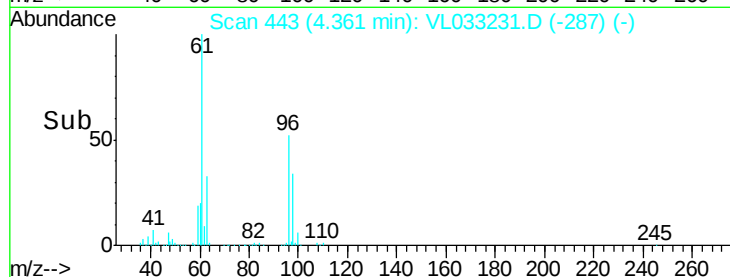
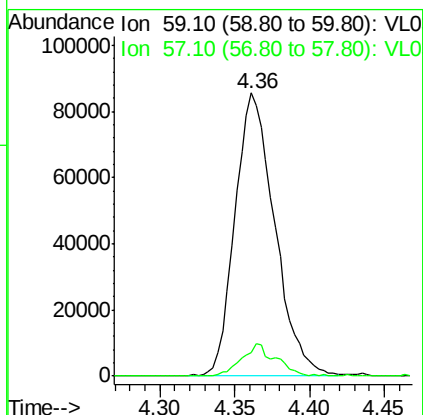
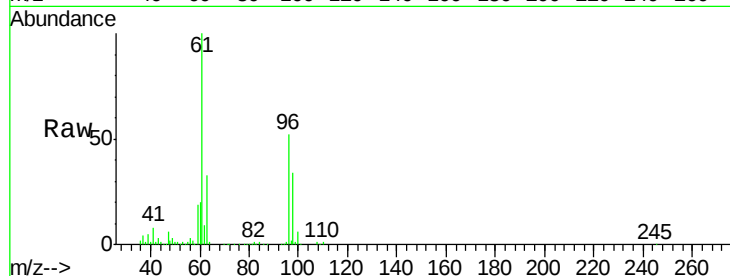


#17

tert-Butyl alcohol
Concen: 9.074 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

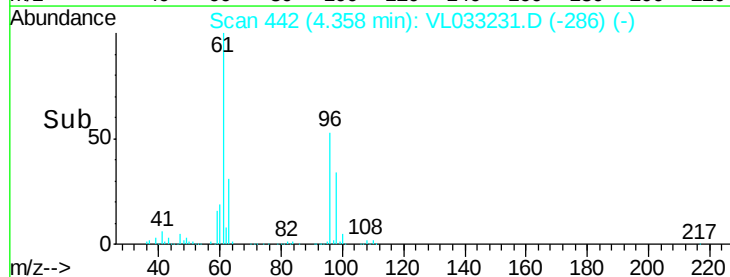
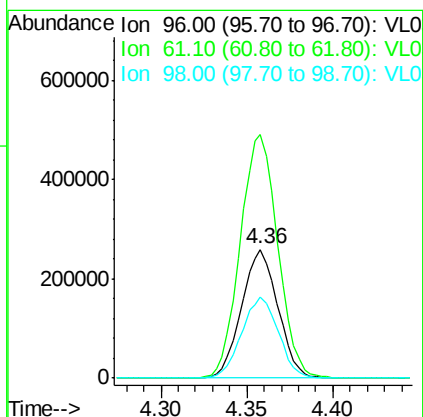
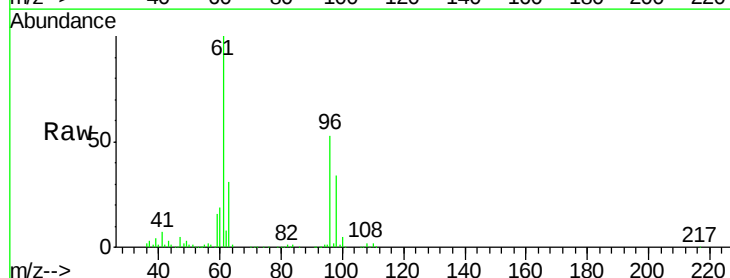
Tot Ion: 59 Resp: 158395
Ion Ratio Lower Upper
59 100
57 10.1 7.6 11.4

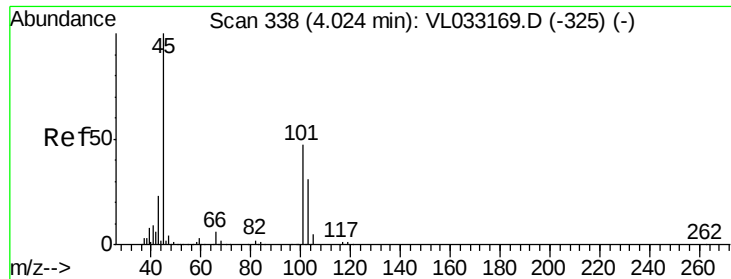


#18

1,1-Dichloroethene
Concen: 9.730 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

Tgt Ion: 96 Resp: 379696
Ion Ratio Lower Upper
96 100
61 189.2 145.0 217.6
98 63.4 50.0 75.0





#19

Isopropyl Alcohol

Concen: 8.594 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

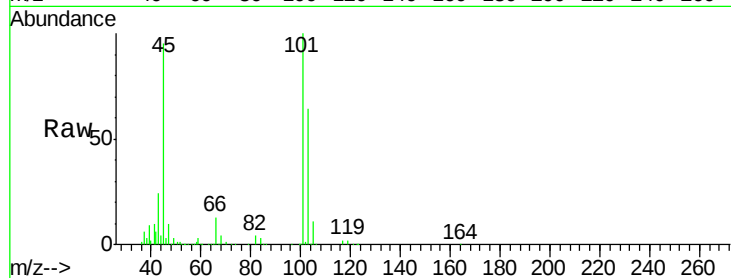
VSTDCCC010EC

Tot Ion: 45 Resp: 533661

Ion Ratio Lower Upper

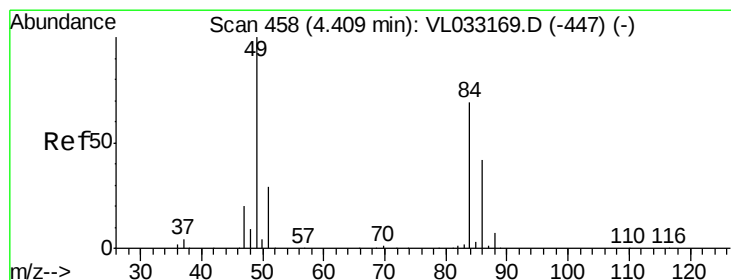
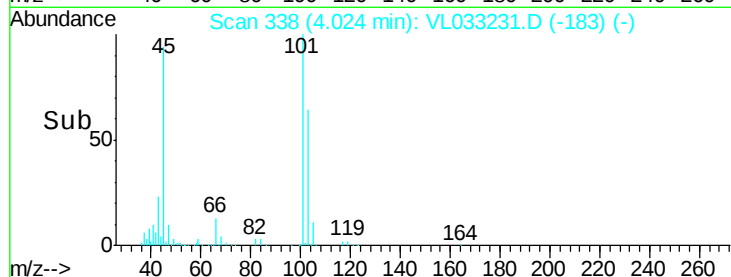
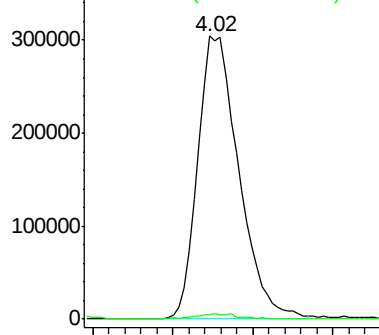
45 100

58 2.3 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.915 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Tgt Ion: 84 Resp: 324683

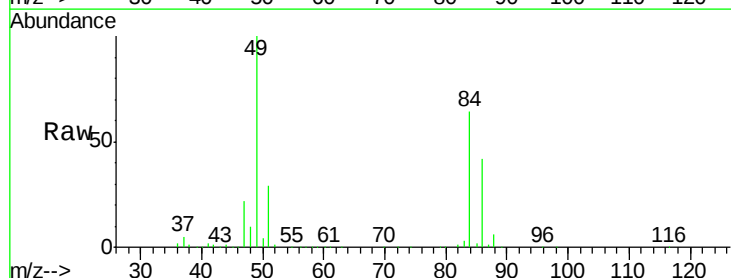
Ion Ratio Lower Upper

84 100

49 154.5 115.8 173.8

51 44.3 33.0 49.6

86 65.5 48.2 72.2

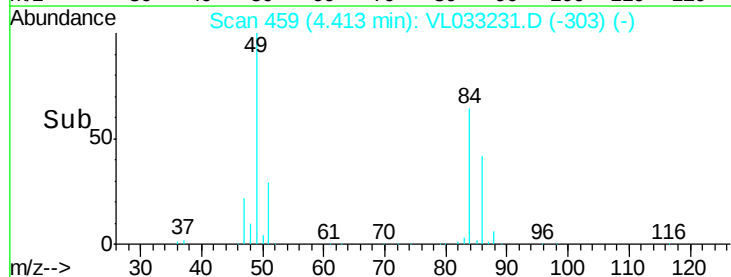
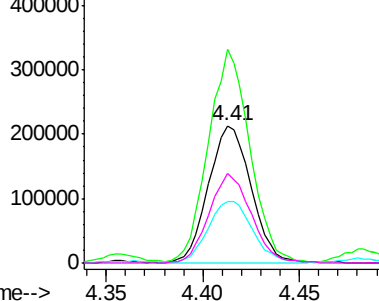


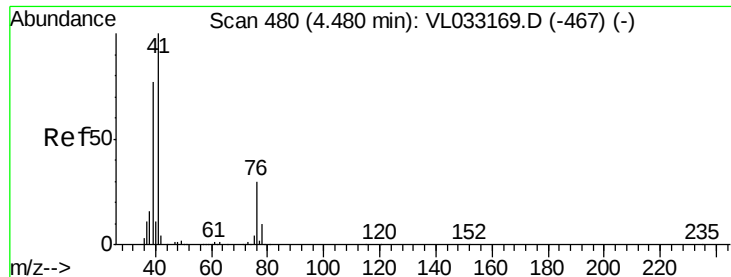
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 10.039 ppbv

RT: 4.48 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

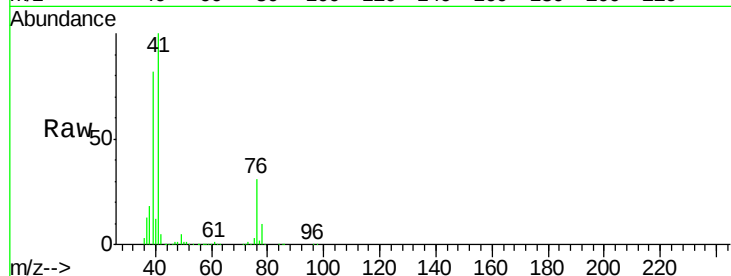
Tot Ion: 41 Resp: 606894

Ion Ratio Lower Upper

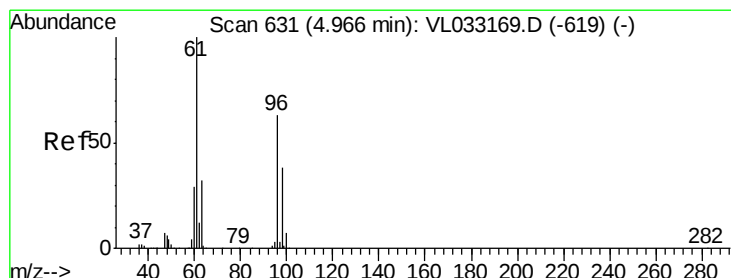
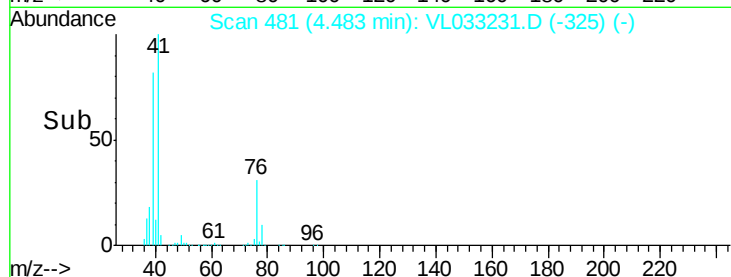
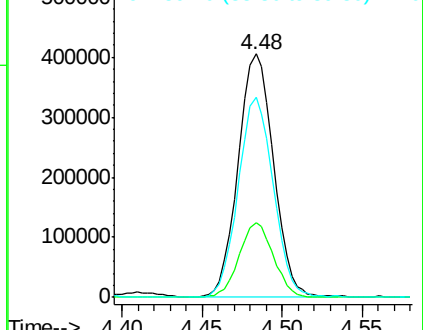
41 100

76 30.1 24.5 36.7

39 81.7 64.1 96.1



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: 12.063 ppbv

RT: 4.97 min Scan# 632

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

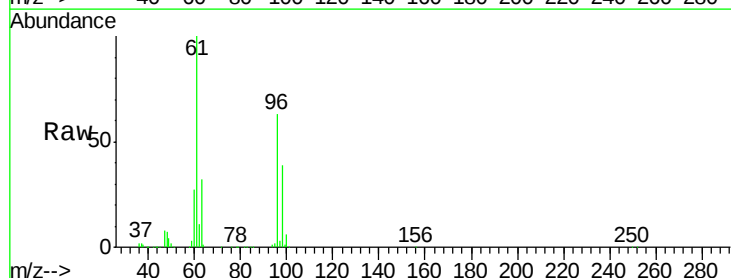
Tgt Ion: 96 Resp: 457127

Ion Ratio Lower Upper

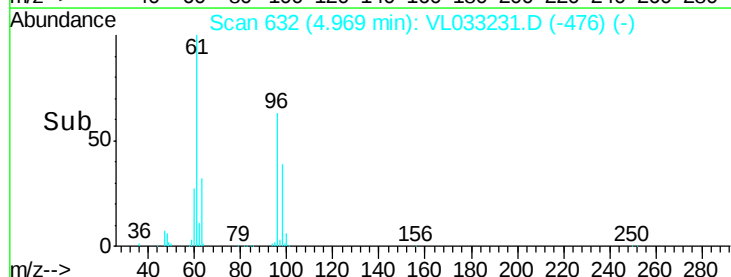
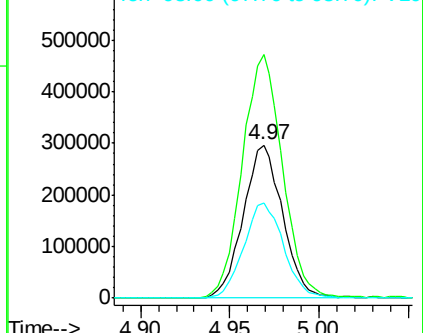
96 100

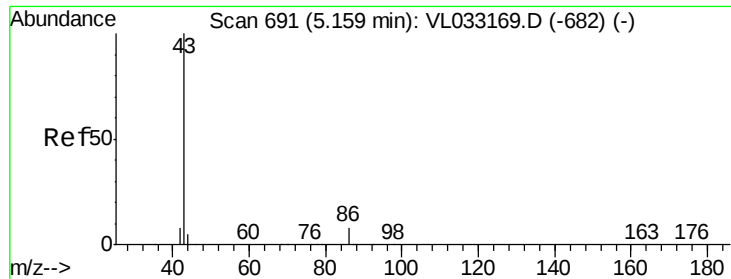
61 159.1 126.4 189.6

98 62.0 48.4 72.6



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: 11.444 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1815971

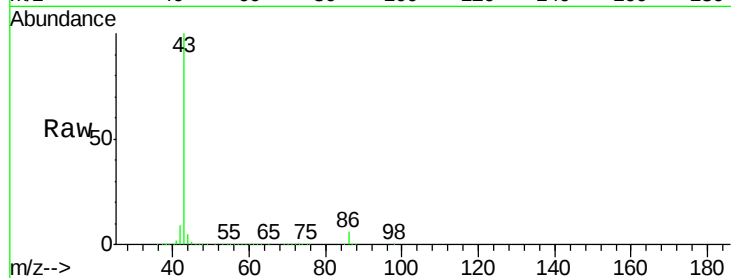
Ion	Ratio	Lower	Upper
43	100		
86	6.5	5.8	8.8
42	9.4	7.4	11.0
44	4.9	3.7	5.5

43 100

86 6.5 5.8 8.8

42 9.4 7.4 11.0

44 4.9 3.7 5.5



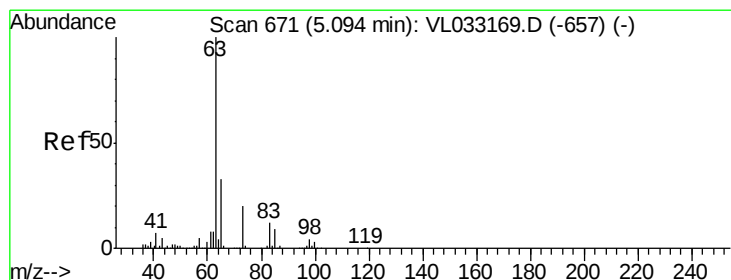
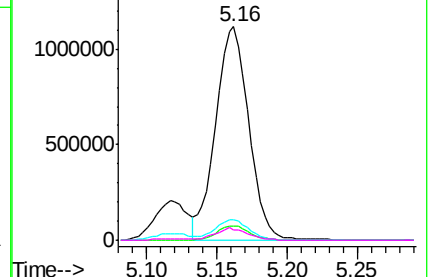
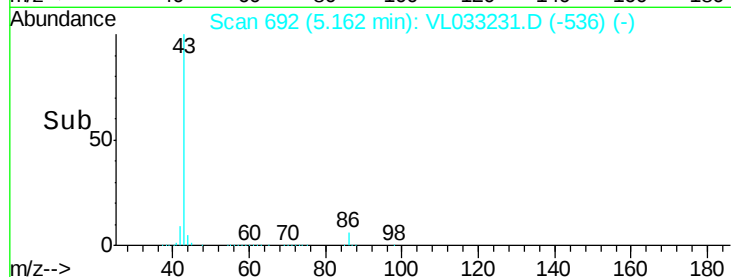
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

Time-->



#24

1,1-Dichloroethane

Concen: 10.997 ppbv

RT: 5.10 min Scan# 672

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

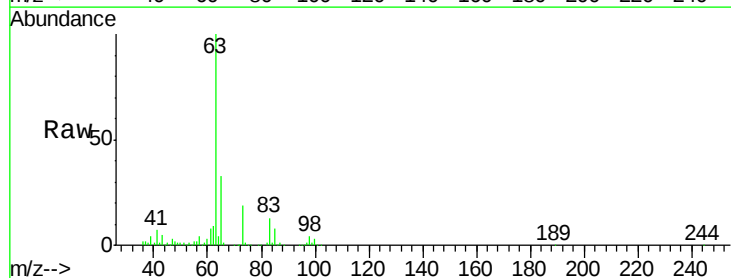
Tgt Ion: 63 Resp: 1234300

Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.1	6.5
100	2.7	1.4	4.2

63 100

98 4.1 2.1 6.5

100 2.7 1.4 4.2

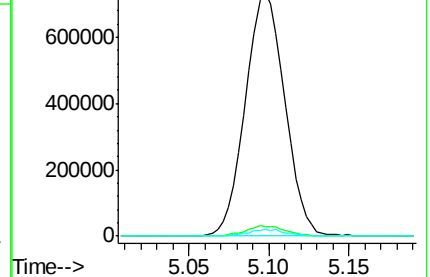
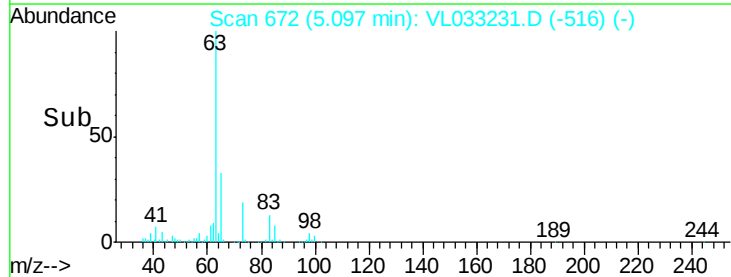


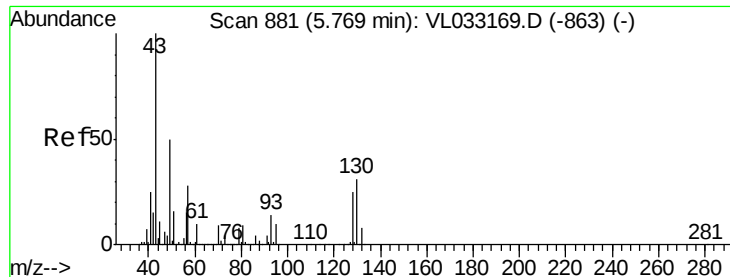
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

Time-->





#25

Ethyl Acetate

Concen: 10.210 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2101796

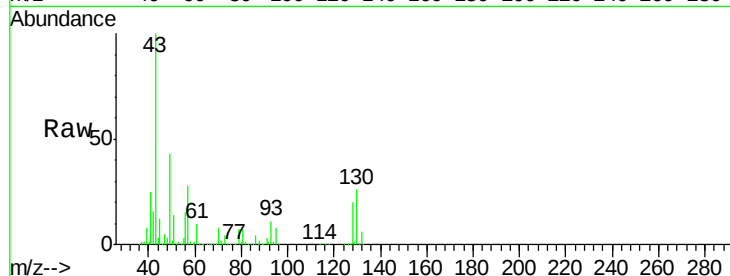
Ion Ratio Lower Upper

43 100

45 10.0 7.9 11.9

61 8.9 7.5 11.3

70 6.9 5.8 8.8

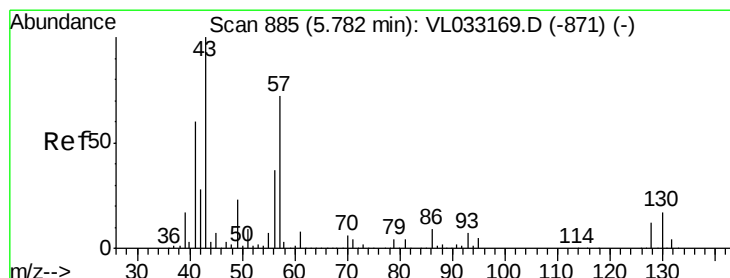
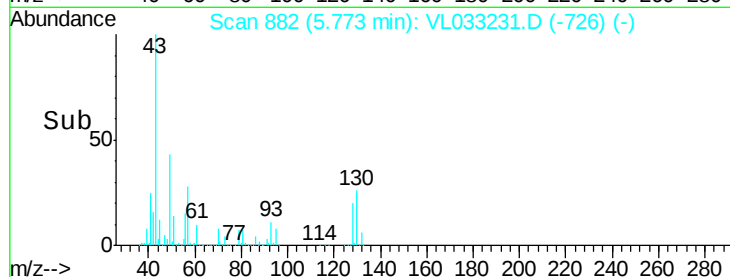
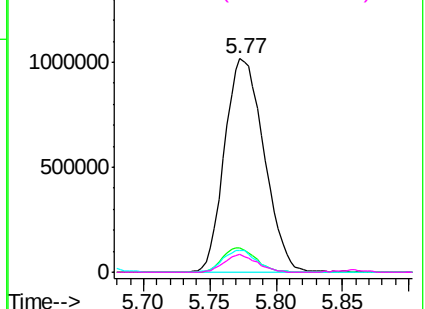


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.556 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Tgt Ion: 57 Resp: 923463

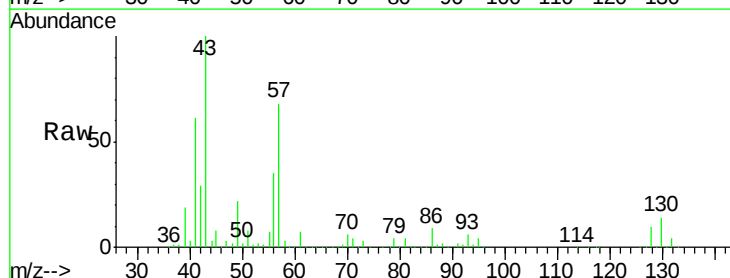
Ion Ratio Lower Upper

57 100

41 90.1 69.4 104.2

43 229.1 176.7 265.1

56 52.2 41.4 62.0

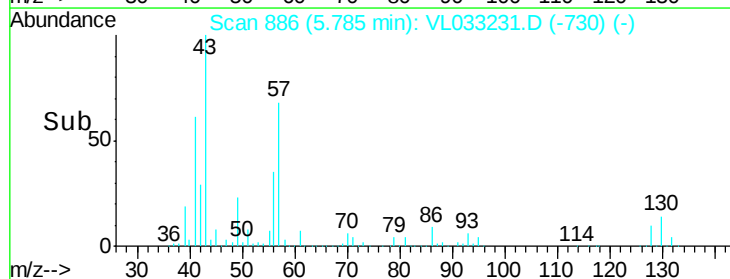
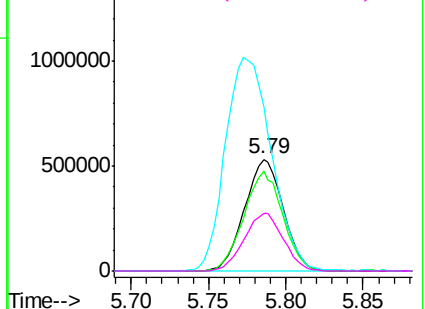


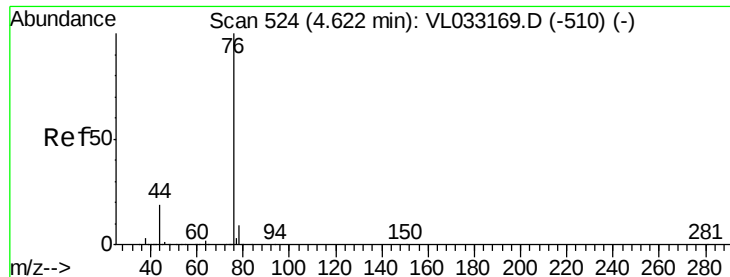
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

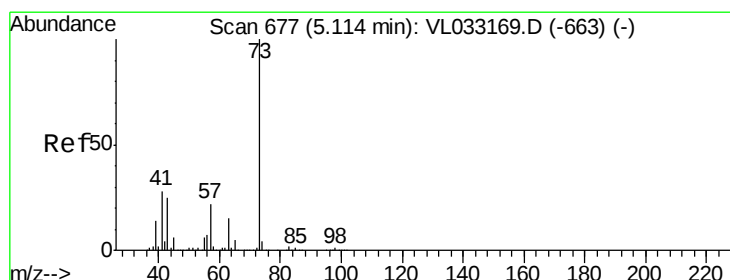
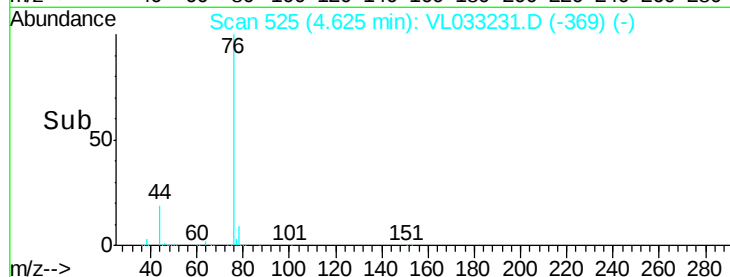
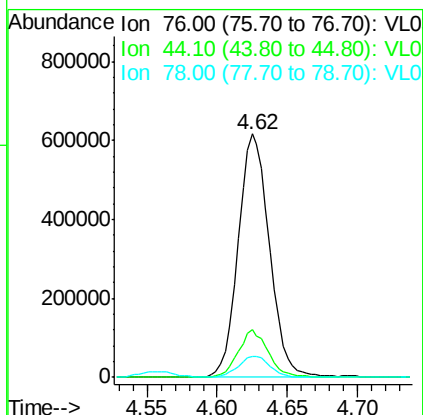
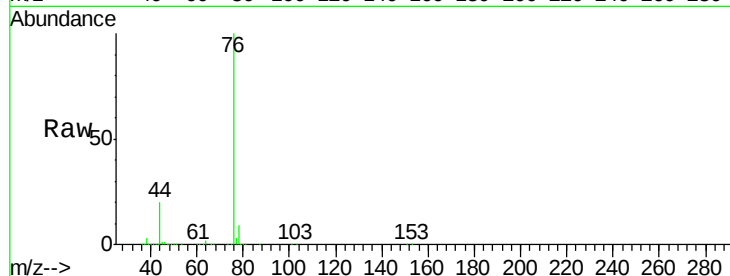




#27
Carbon Disulfide
Concen: 10.808 ppbv
RT: 4.62 min Scan# 525
Delta R.T. 0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

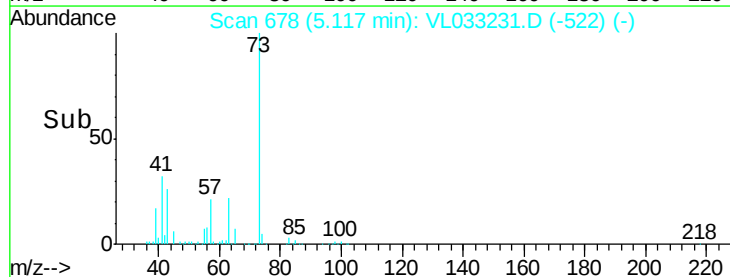
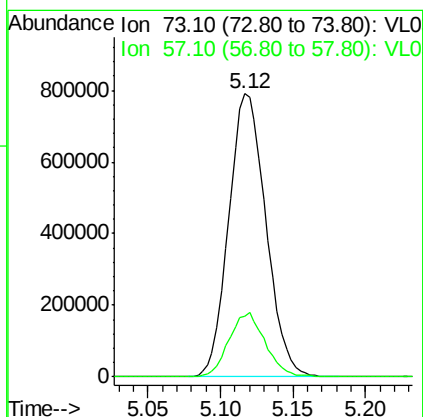
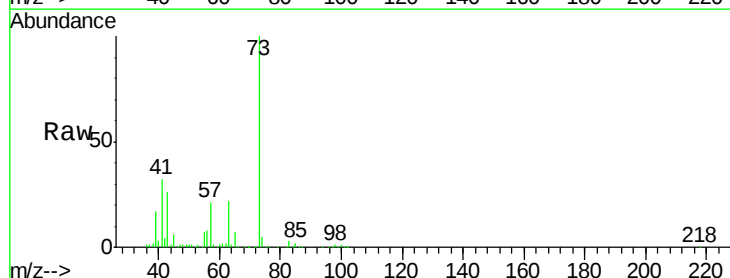
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

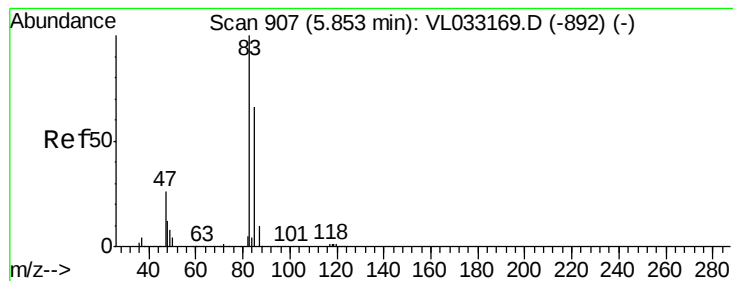
Tot Ion: 76 Resp: 956851
Ion Ratio Lower Upper
76 100
44 19.0 15.0 22.4
78 9.0 7.4 11.0



#28
Methyl tert-Butyl Ether
Concen: 10.656 ppbv
RT: 5.12 min Scan# 678
Delta R.T. 0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

Tgt Ion: 73 Resp: 1407150
Ion Ratio Lower Upper
73 100
57 22.2 17.9 26.9





#29

Chloroform

Concen: 10.343 ppbv

RT: 5.86 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

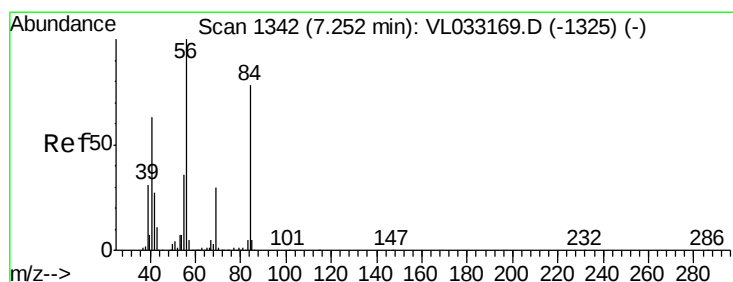
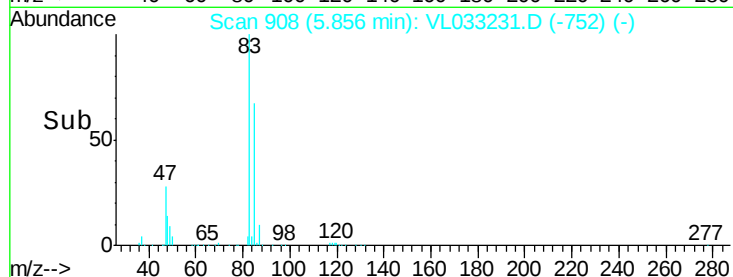
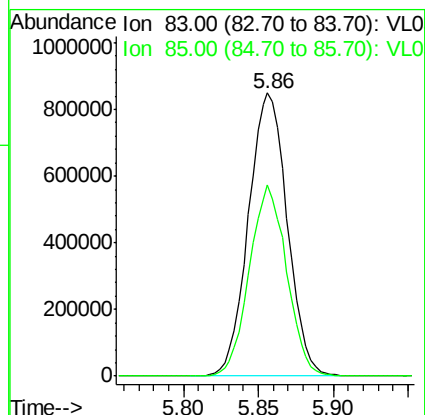
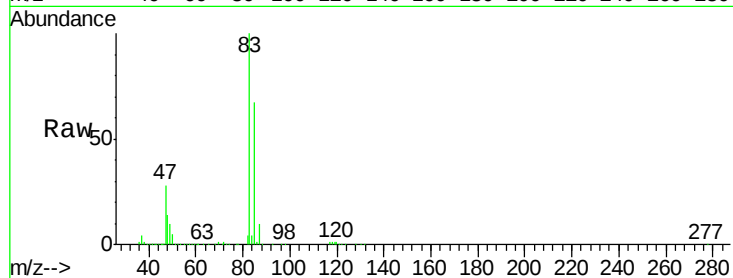
VSTDCCC010EC

Tot Ion: 83 Resp: 1531737

Ion Ratio Lower Upper

83 100

85 67.2 52.6 78.8



#30

Cyclohexane

Concen: 8.594 ppbv

RT: 7.25 min Scan# 1343

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

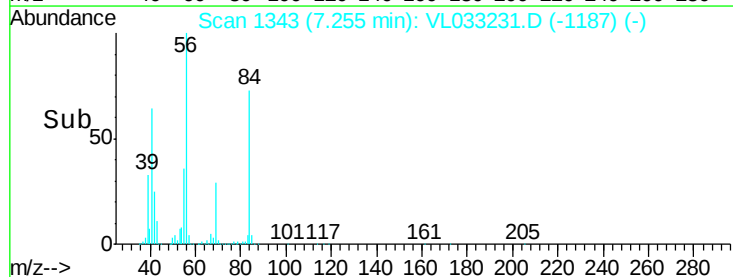
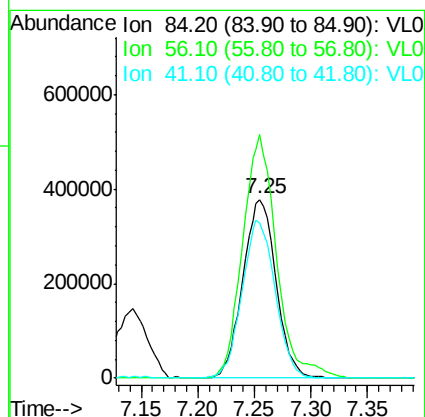
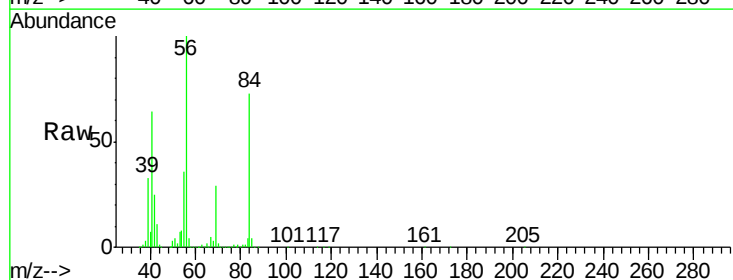
Tgt Ion: 84 Resp: 770580

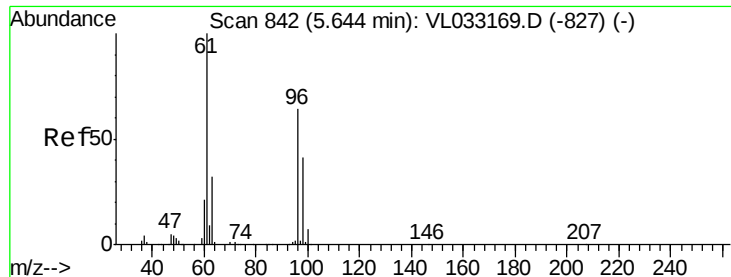
Ion Ratio Lower Upper

84 100

56 139.4 109.5 164.3

41 88.6 66.6 100.0





#31

cis-1,2-Dichloroethene

Concen: 10.269 ppbv

RT: 5.65 min Scan# 843

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

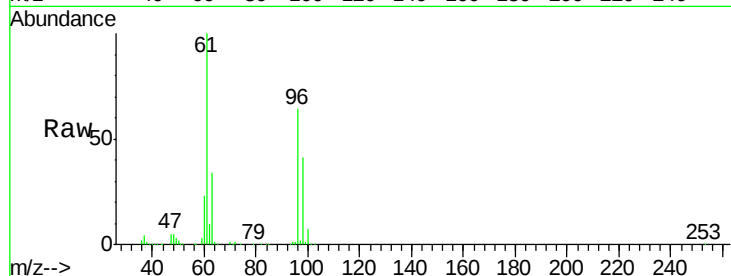
Tot Ion: 61 Resp: 993249

Ion Ratio Lower Upper

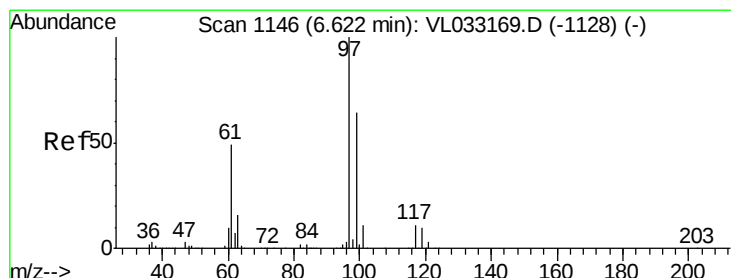
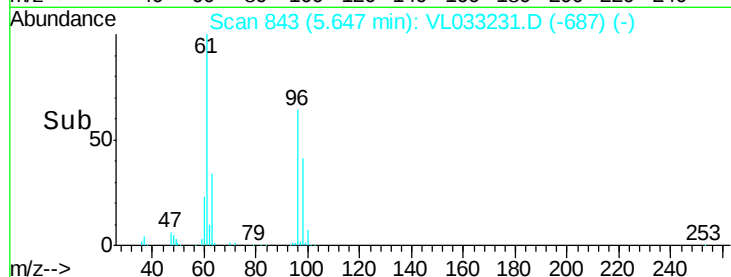
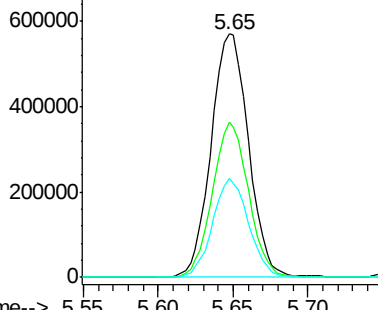
61 100

96 63.6 51.2 76.8

98 40.8 32.8 49.2



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: 9.279 ppbv

RT: 6.63 min Scan# 1148

Delta R.T. 0.01 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

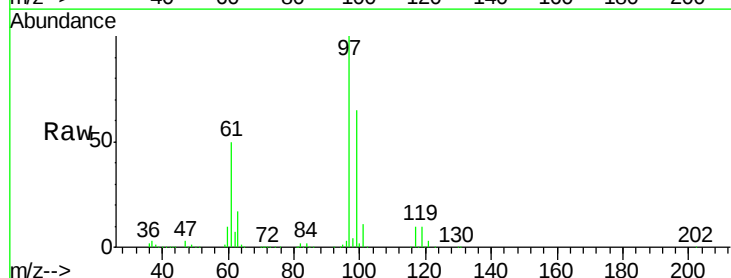
Tgt Ion: 97 Resp: 1513093

Ion Ratio Lower Upper

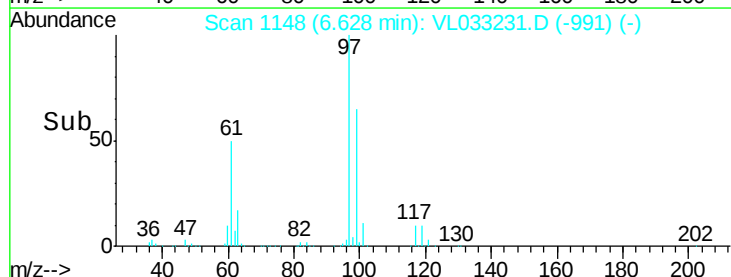
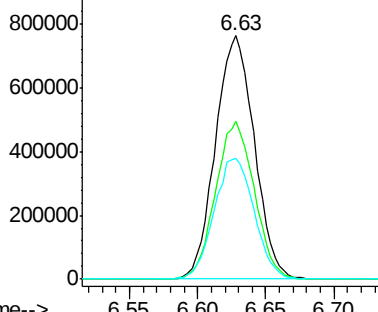
97 100

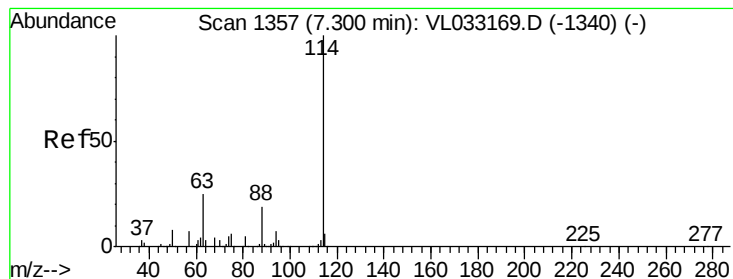
99 64.6 51.4 77.2

61 51.1 38.9 58.3



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: 7.30 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

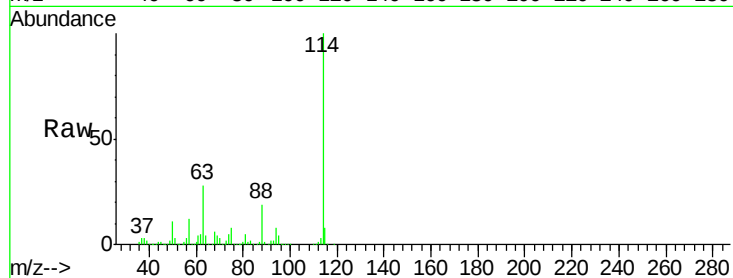
Tot Ion:114 Resp: 1812438

Ion Ratio Lower Upper

114 100

63 27.7 20.8 31.2

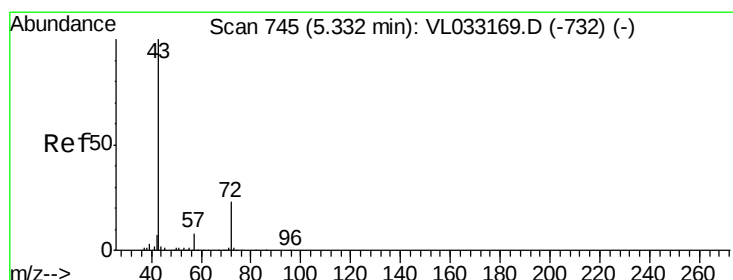
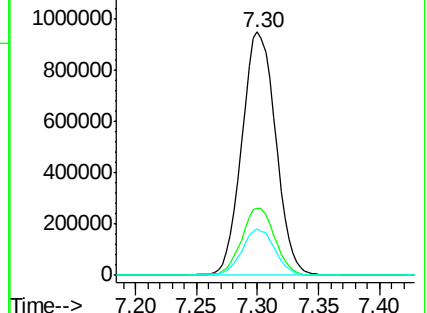
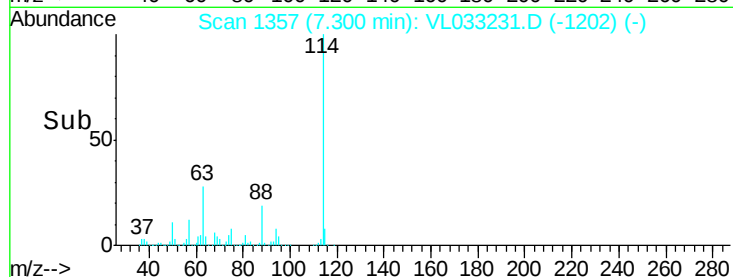
88 18.4 14.6 22.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 12.473 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.00 min

Lab File: VL033231.D

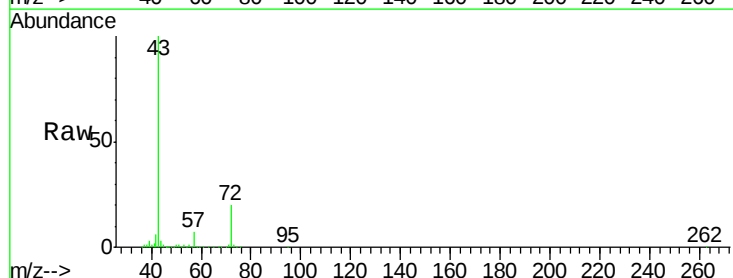
Acq: 15 Feb 2019 14:12

Tgt Ion: 43 Resp: 1433997

Ion Ratio Lower Upper

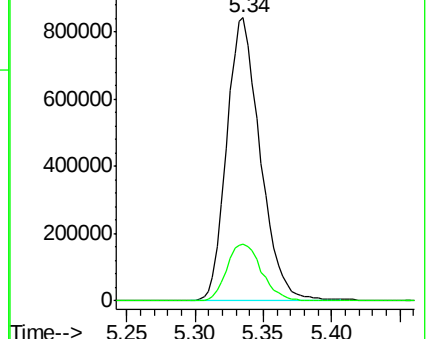
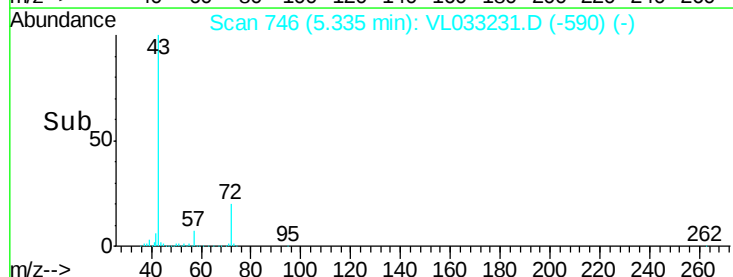
43 100

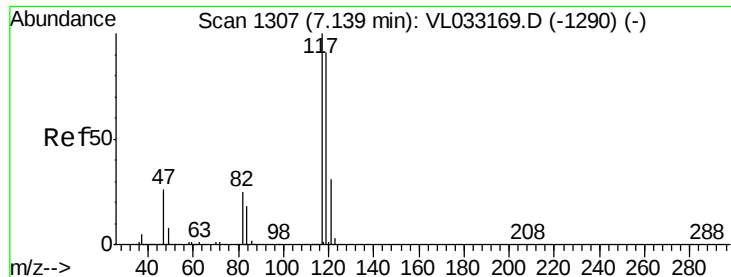
72 21.1 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 11.420 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

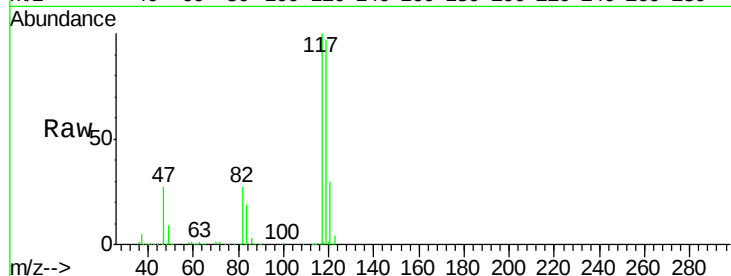
Tot Ion:117 Resp: 1580789

Ion Ratio Lower Upper

117 100

119 96.6 73.0 109.6

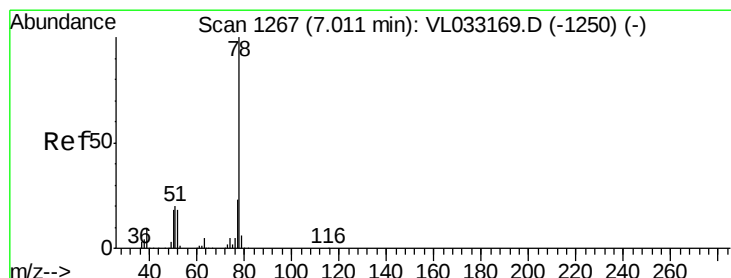
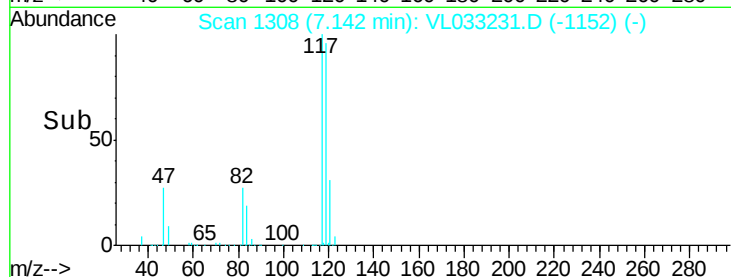
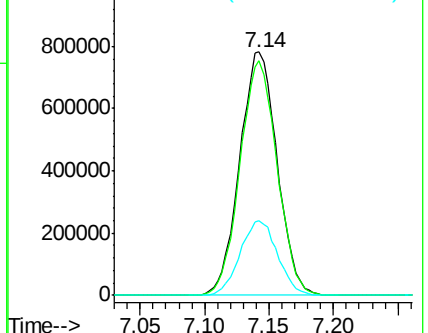
121 30.4 25.1 37.7



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: 10.373 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

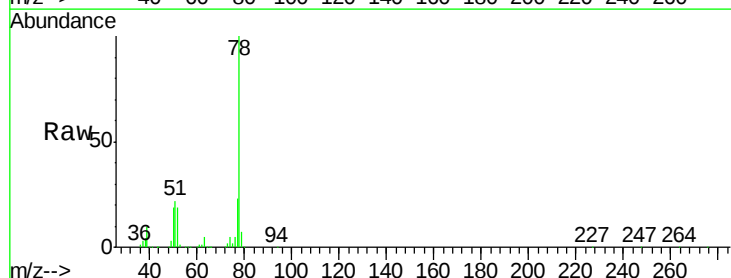
Tgt Ion: 78 Resp: 1905344

Ion Ratio Lower Upper

78 100

77 23.0 18.0 27.0

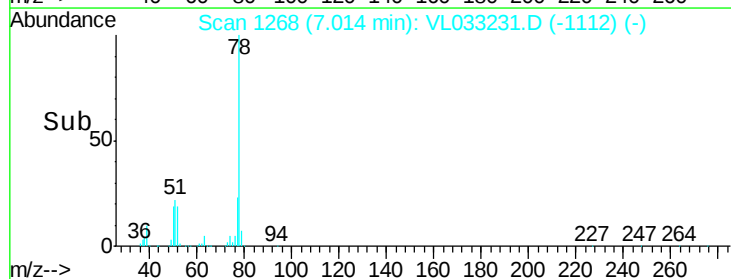
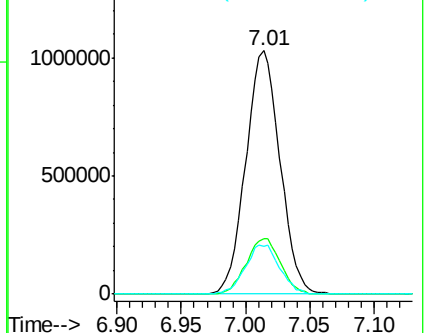
50 19.4 14.2 21.2

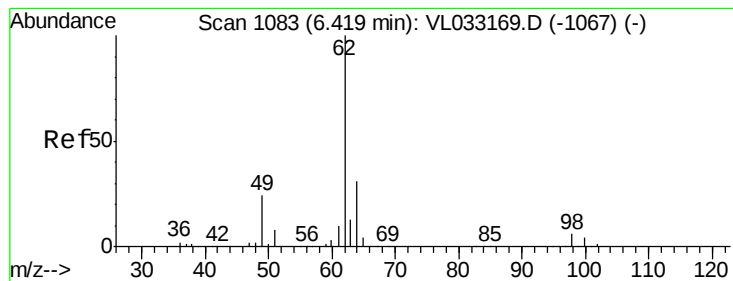


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 12.003 ppbv

RT: 6.42 min Scan# 1083

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

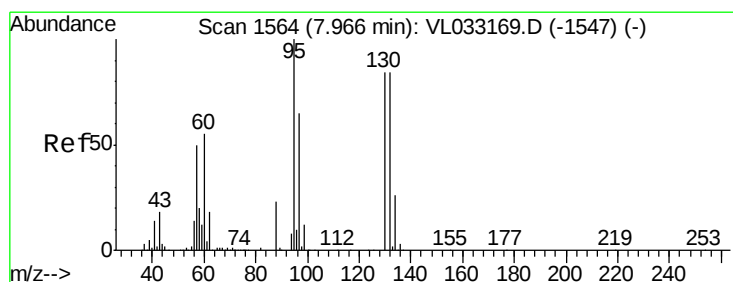
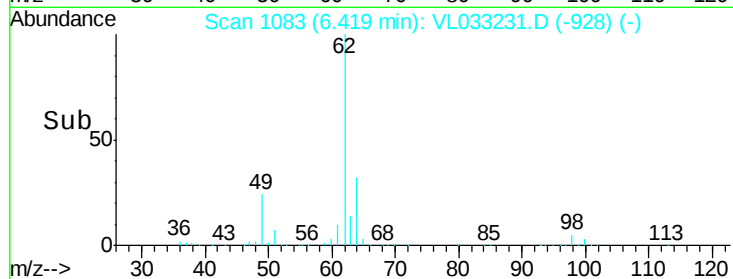
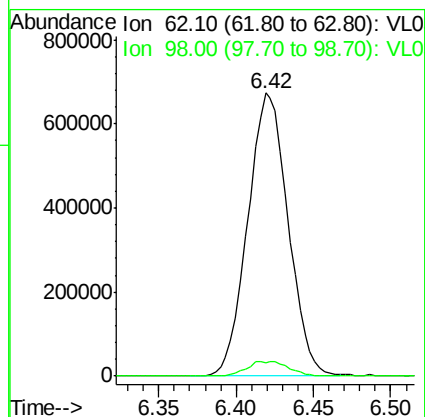
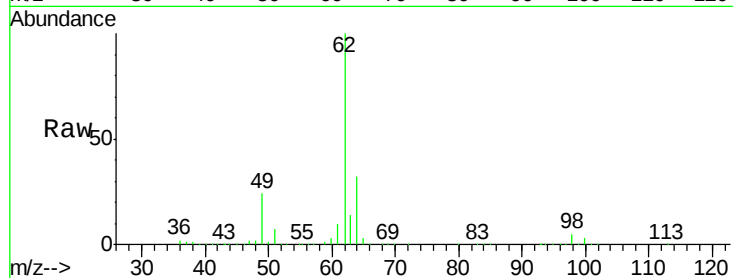
VSTDCCC010EC

Tot Ion: 62 Resp: 1221910

Ion Ratio Lower Upper

62 100

98 5.5 4.7 7.1



#38

Trichloroethene

Concen: 9.051 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Tgt Ion:130 Resp: 711998

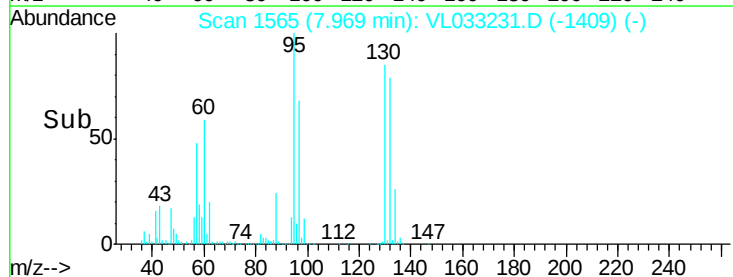
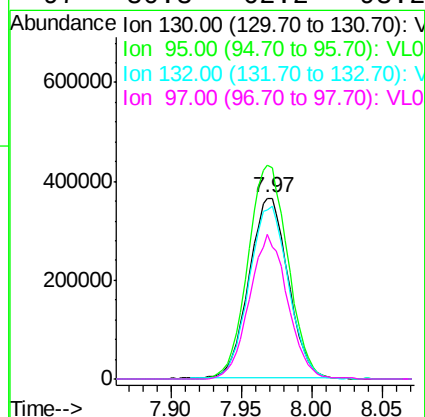
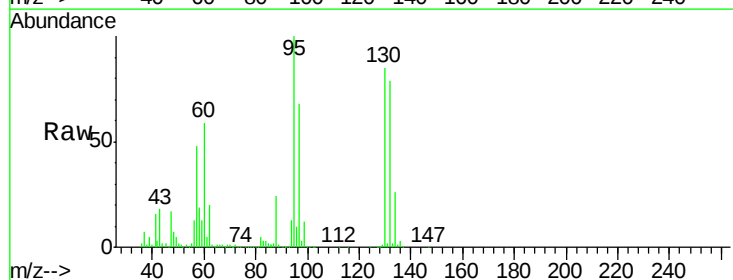
Ion Ratio Lower Upper

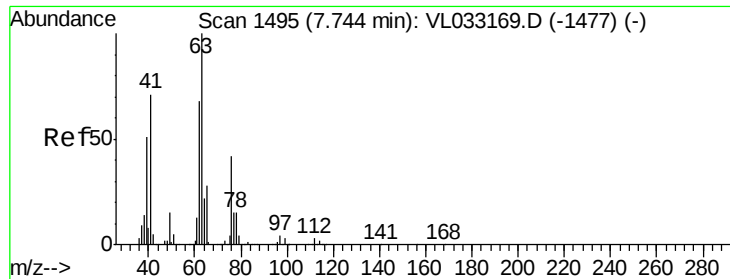
130 100

95 118.4 95.5 143.3

132 93.2 80.0 120.0

97 80.3 62.2 93.2





#39

1,2-Dichloropropane

Concen: 10.290 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

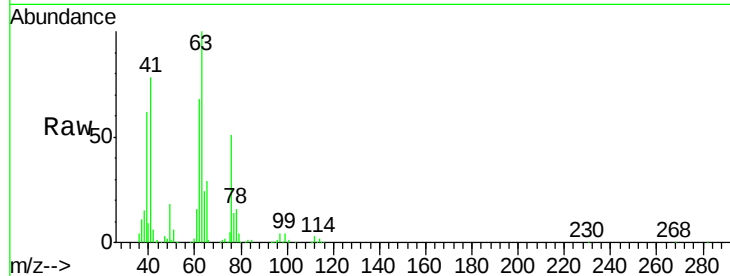
Tot Ion: 63 Resp: 746451

Ion Ratio Lower Upper

63 100

41 77.5 56.4 84.6

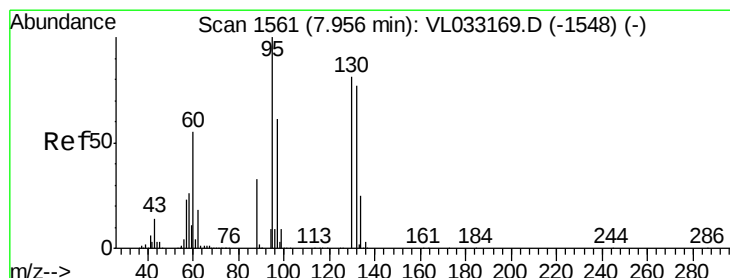
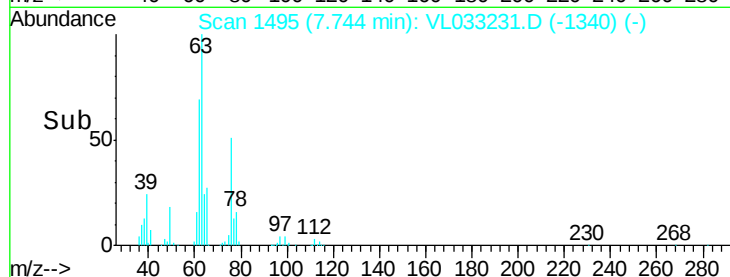
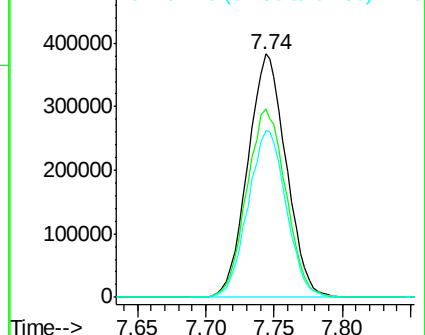
62 68.3 54.2 81.4



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 9.493 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. 0.01 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Tgt Ion: 88 Resp: 250285

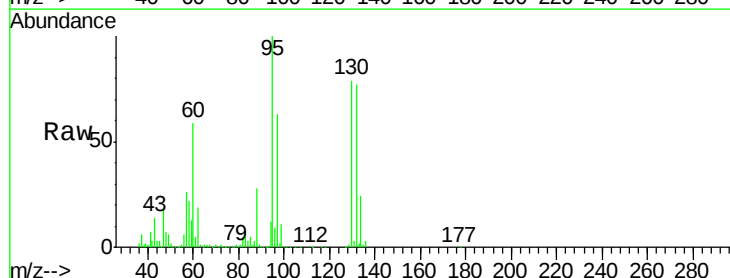
Ion Ratio Lower Upper

88 100

58 136.2 106.6 160.0

43 0.0 220.2 330.2#

57 0.0 992.6 1489.0#

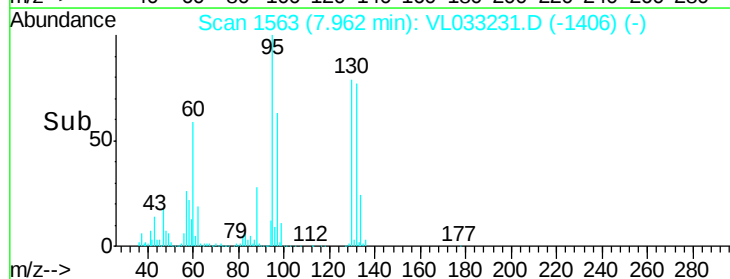
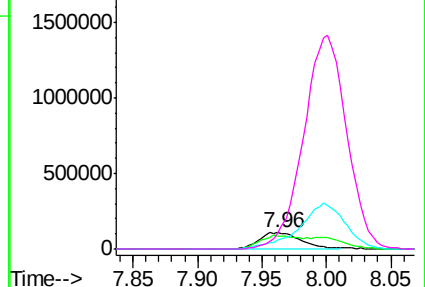


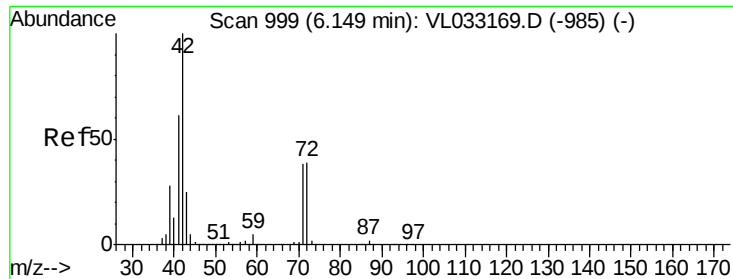
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 11.272 ppbv

RT: 6.16 min Scan# 1001

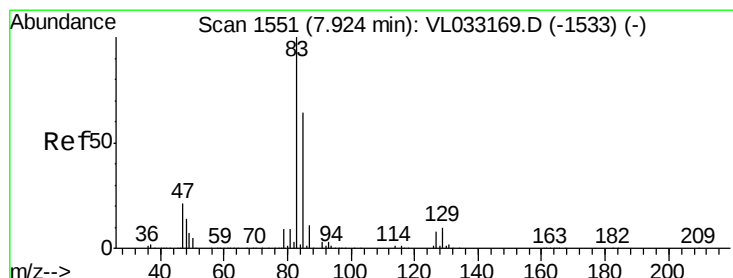
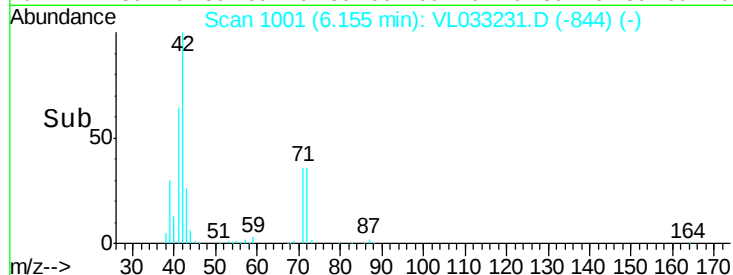
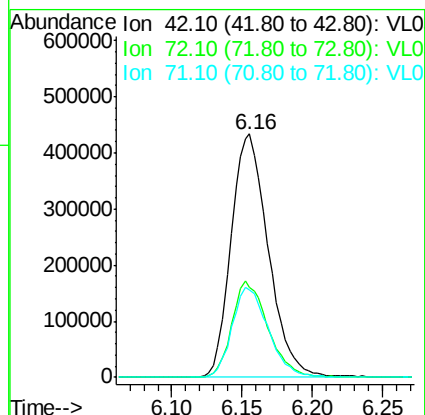
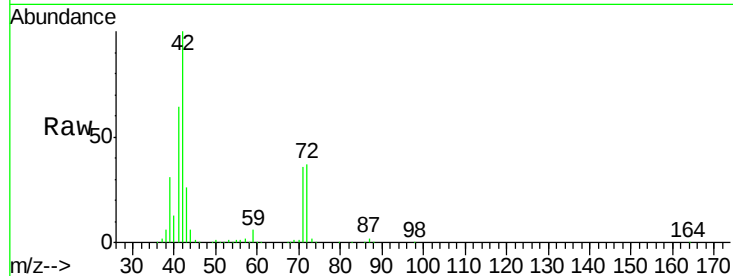
Delta R.T. 0.01 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	42	Resp:	802137
Ion	Ratio	Lower	Upper
42	100		
72	38.6	31.6	47.4
71	36.1	30.3	45.5



#42

Bromodichloromethane

Concen: 11.593 ppbv

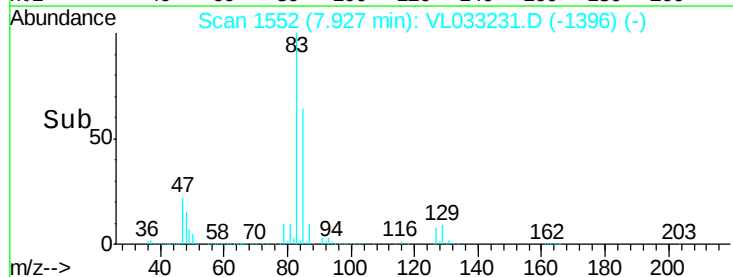
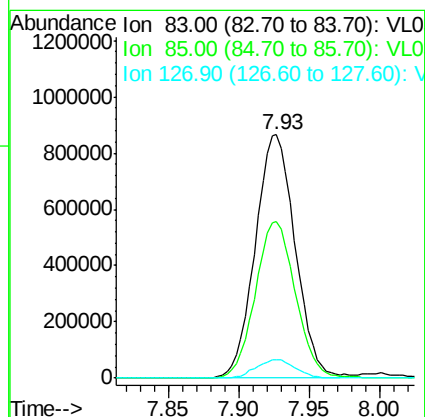
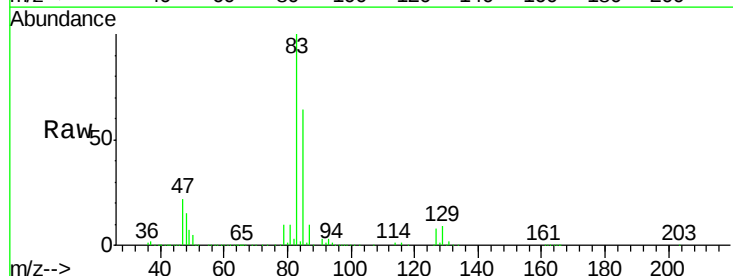
RT: 7.93 min Scan# 1552

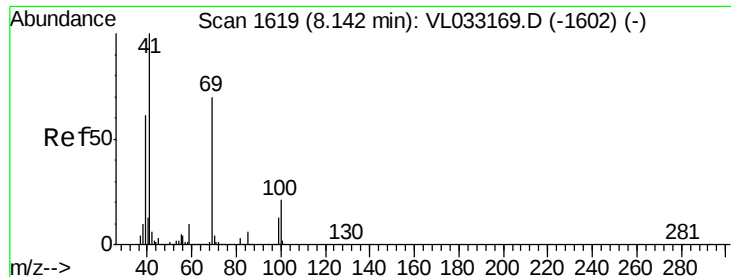
Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Tgt Ion:	83	Resp:	1710248
Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.1	76.7
127	7.7	6.4	9.6

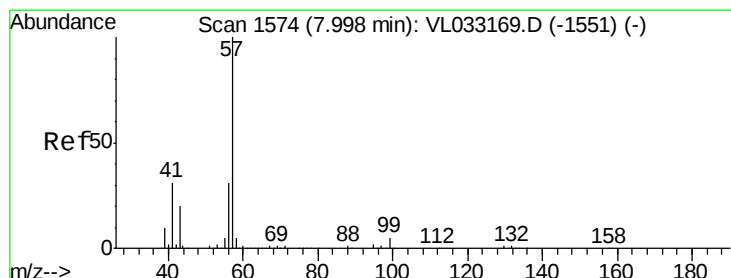
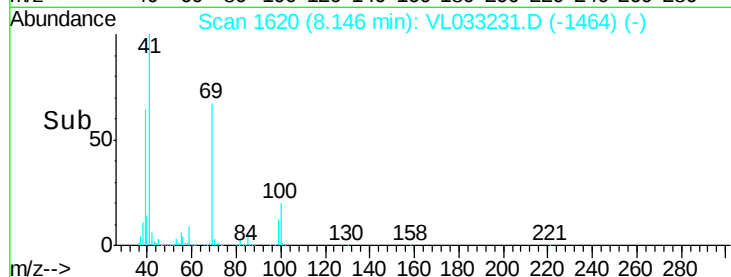
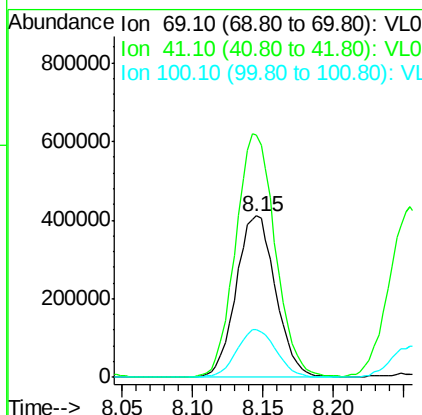
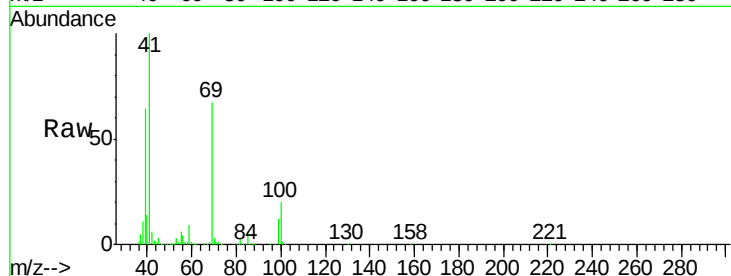




#43
Methvl Methacrylate
Concen: 10.959 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. 0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

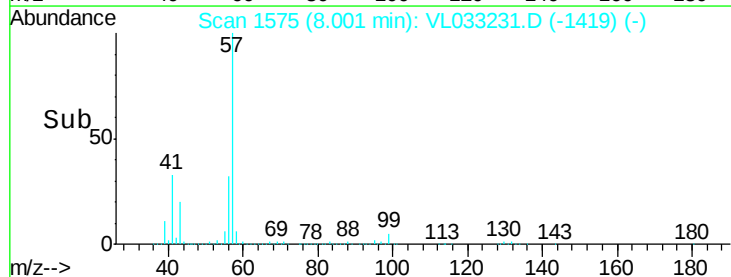
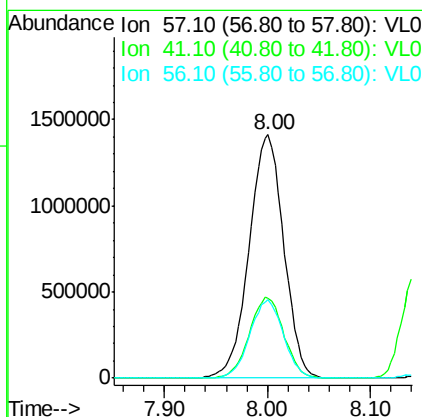
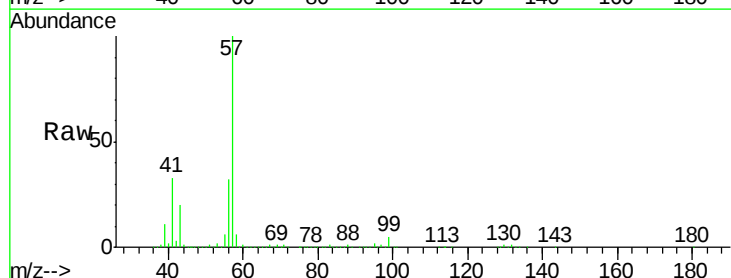
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

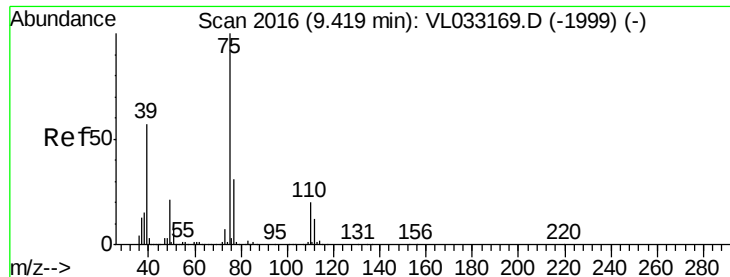
Tot Ion: 69 Resp: 808157
Ion Ratio Lower Upper
69 100
41 151.0 117.1 175.7
100 29.6 25.0 37.6



#44
2,2,4-Trimethylpentane
Concen: 10.558 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

Tgt Ion: 57 Resp: 3286398
Ion Ratio Lower Upper
57 100
41 32.9 25.1 37.7
56 31.1 24.5 36.7





#45

t-1,3-Dichloropropene

Concen: 13.048 ppbv

RT: 9.43 min Scan# 2018

Delta R.T. 0.01 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

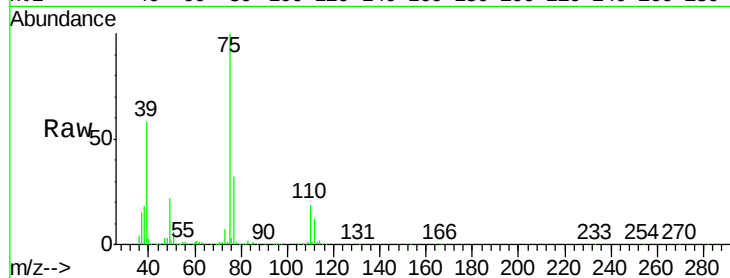
VSTDCCC010EC

Tot Ion: 75 Resp: 1068978

Ion Ratio Lower Upper

75 100

77 31.8 25.0 37.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.43

600000

500000

400000

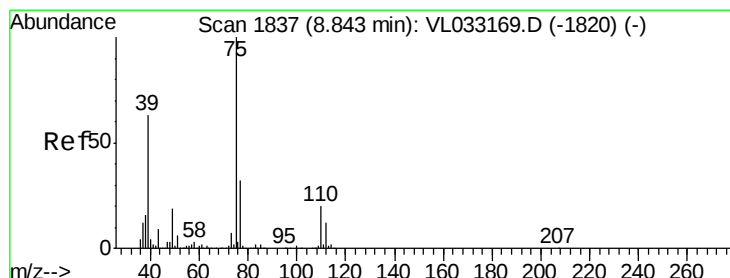
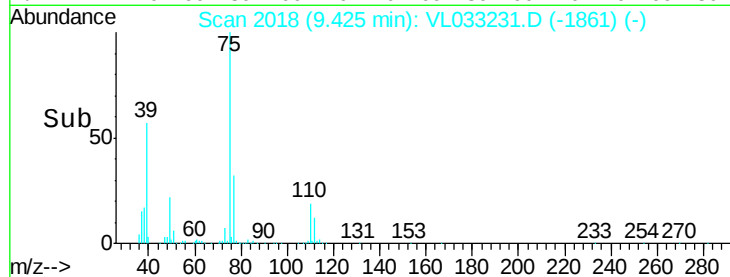
300000

200000

100000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.567 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

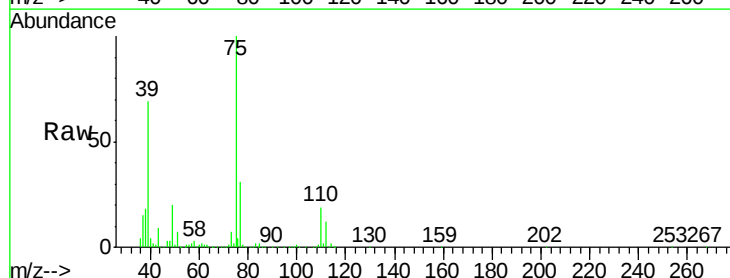
Tgt Ion: 75 Resp: 1207024

Ion Ratio Lower Upper

75 100

39 68.9 50.1 75.1

77 30.9 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800000

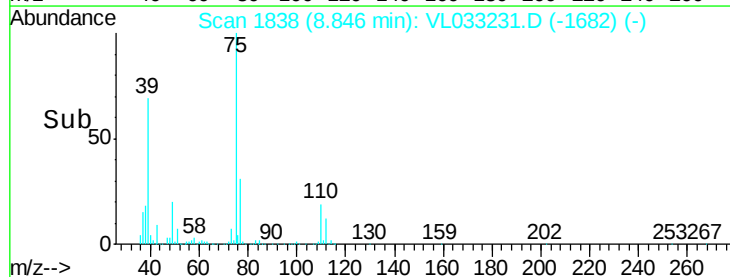
600000

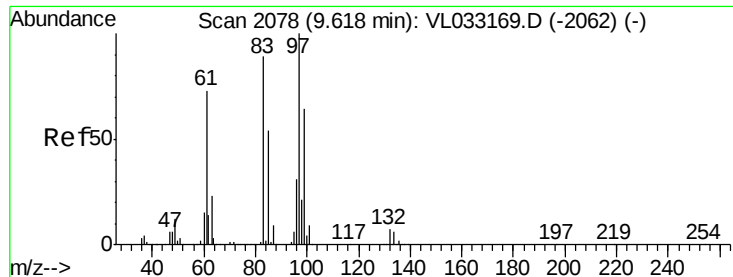
400000

200000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 10.467 ppbv

RT: 9.62 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 787986

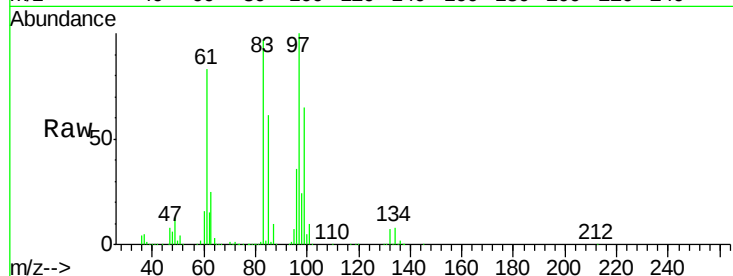
Ion Ratio Lower Upper

97 100

83 97.5 71.4 107.2

85 60.7 43.5 65.3

99 65.1 51.4 77.0

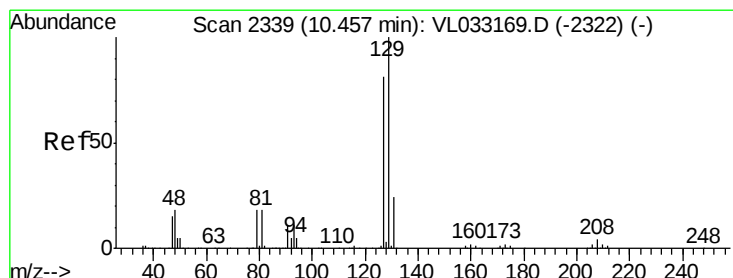
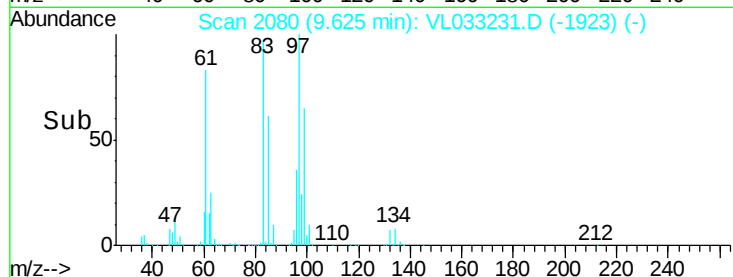
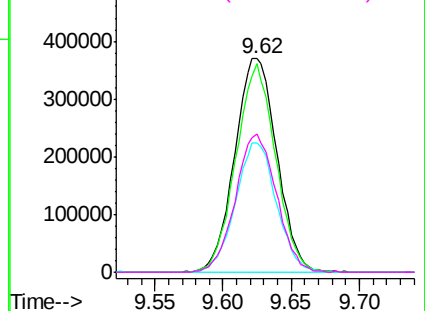


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 12.098 ppbv

RT: 10.46 min Scan# 2340

Delta R.T. 0.00 min

Lab File: VL033231.D

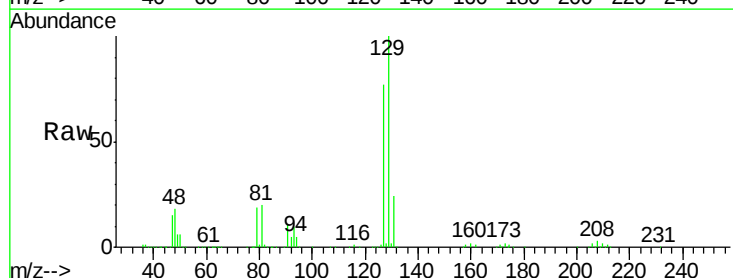
Acq: 15 Feb 2019 14:12

Tgt Ion: 129 Resp: 1433880

Ion Ratio Lower Upper

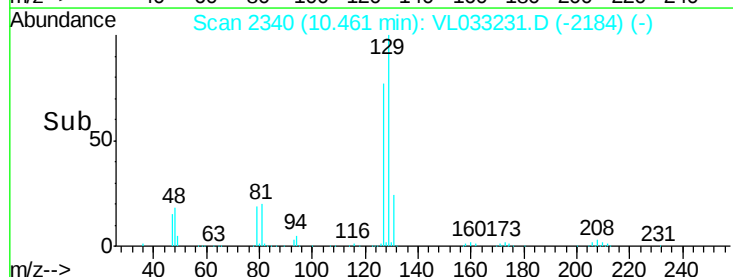
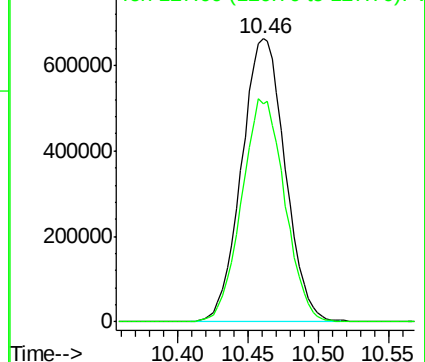
129 100

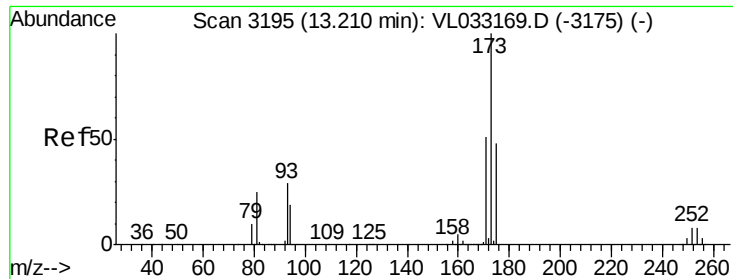
127 78.0 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 12.495 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

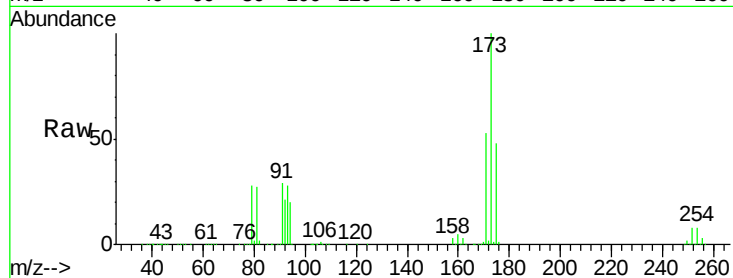
Tot Ion:173 Resp: 1274067

Ion Ratio Lower Upper

173 100

175 48.6 38.6 58.0

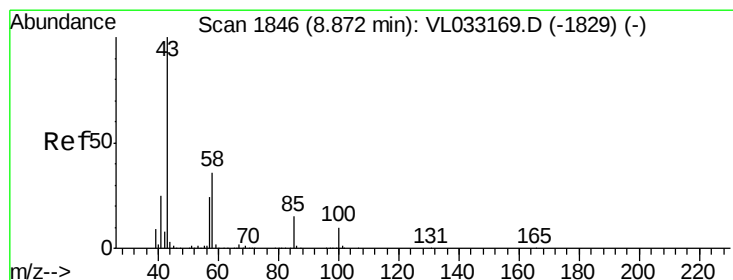
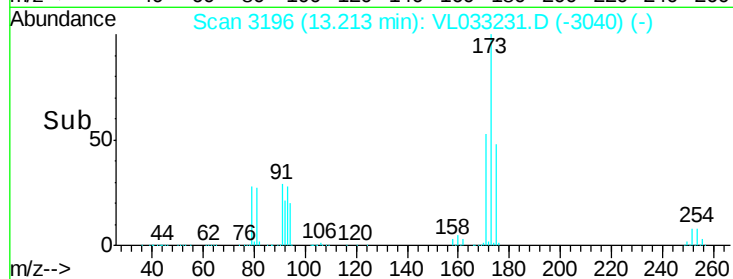
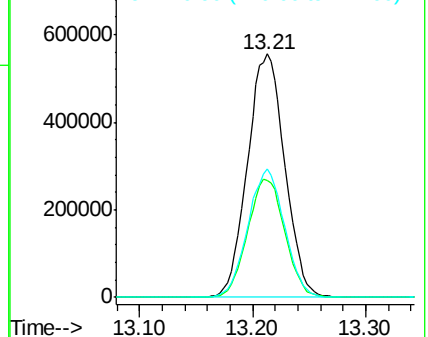
171 51.6 41.6 62.4



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.190 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. 0.01 min

Lab File: VL033231.D

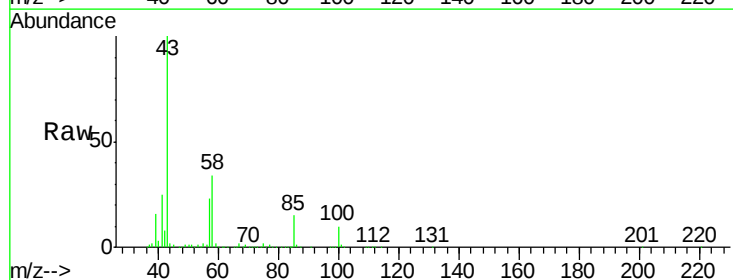
Acq: 15 Feb 2019 14:12

Tgt Ion: 43 Resp: 2062899

Ion Ratio Lower Upper

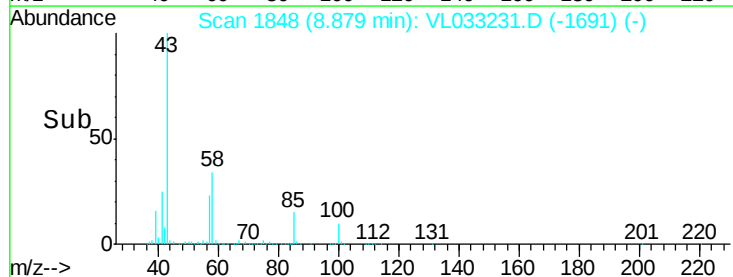
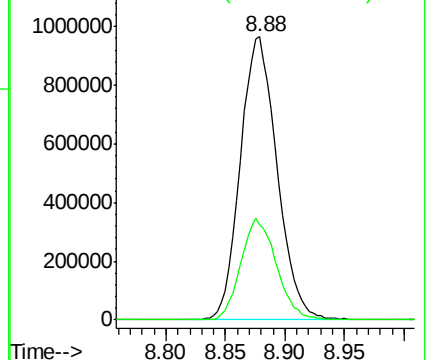
43 100

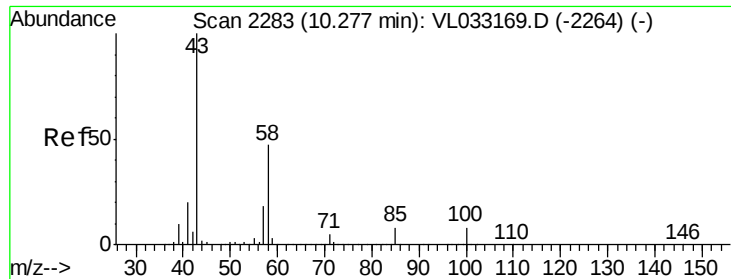
58 34.8 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.309 ppbv

RT: 10.28 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

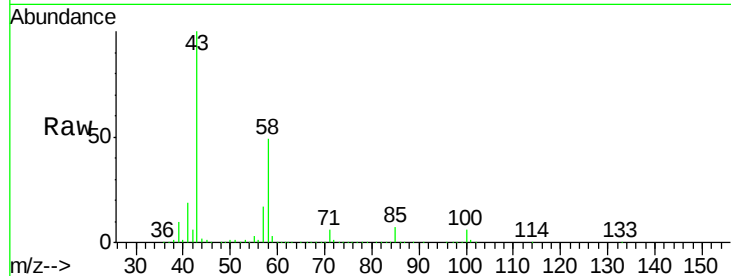
Tot Ion: 43 Resp: 1643815

Ion Ratio Lower Upper

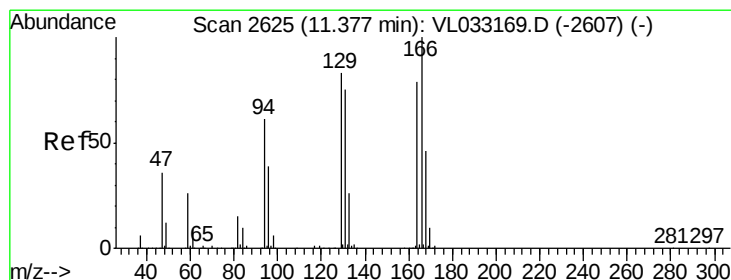
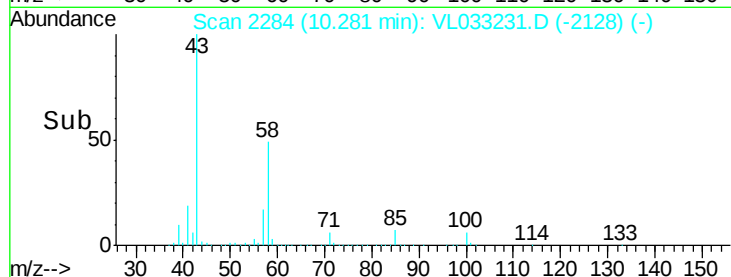
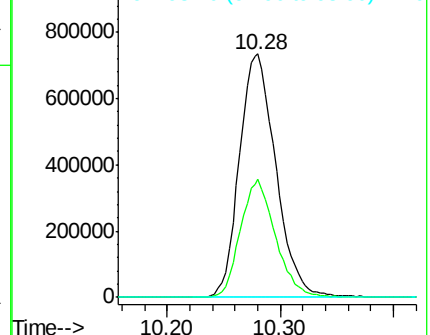
43 100

58 46.7 39.1 58.7

98 0.2 0.2 0.2



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



#52

Tetrachloroethene

Concen: 9.833 ppbv

RT: 11.38 min Scan# 2627

Delta R.T. 0.01 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Tgt Ion: 164 Resp: 693920

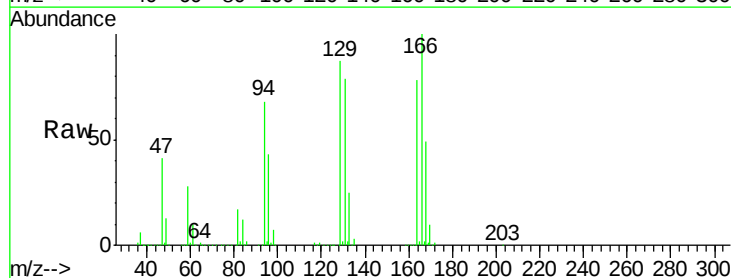
Ion Ratio Lower Upper

164 100

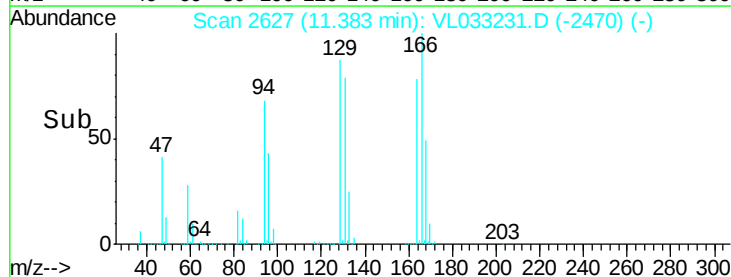
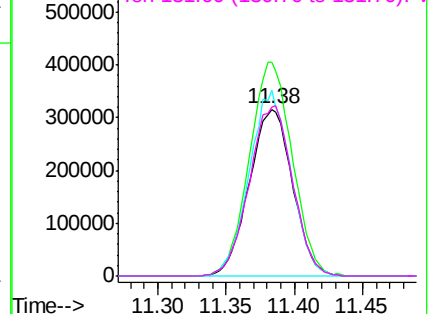
166 128.1 100.9 151.3

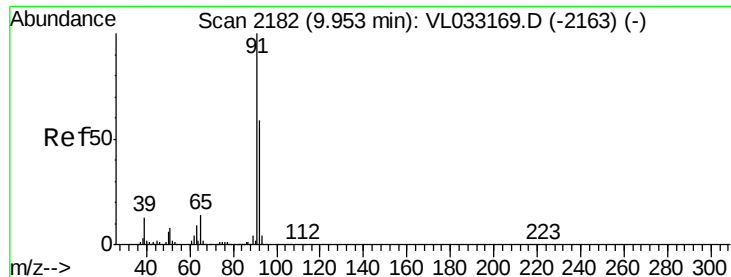
129 111.5 83.9 125.9

131 101.6 76.2 114.2



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.334 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

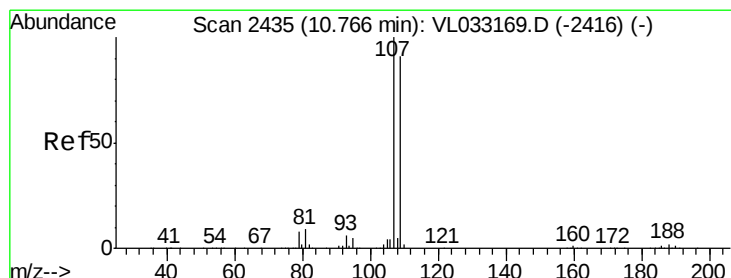
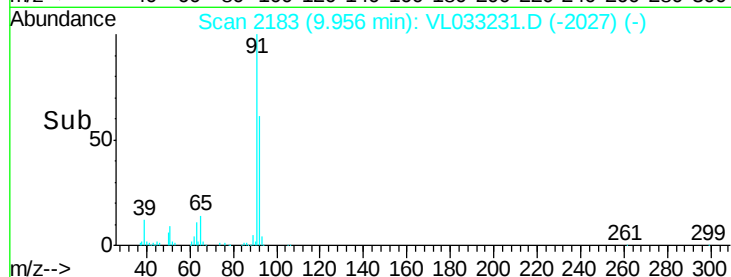
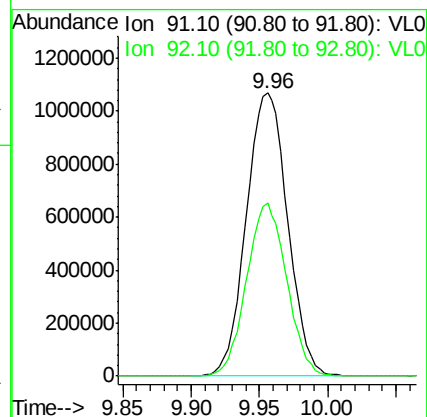
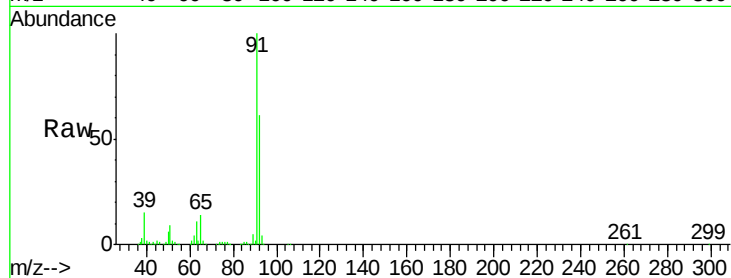
VSTDCCC010EC

Tot Ion: 91 Resp: 2247686

Ion Ratio Lower Upper

91 100

92 59.4 48.0 72.0



#54

1,2-Dibromoethane

Concen: 10.948 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL033231.D

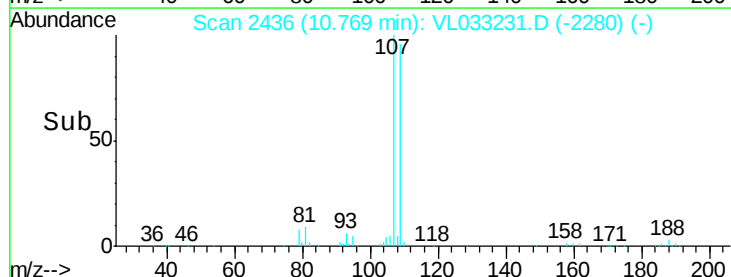
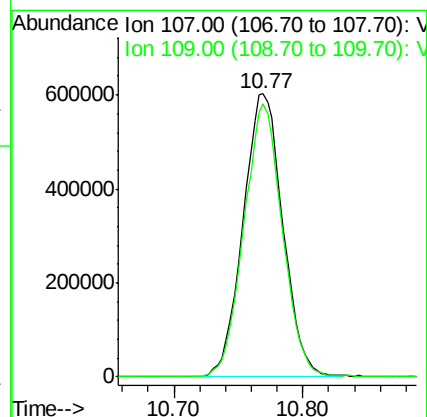
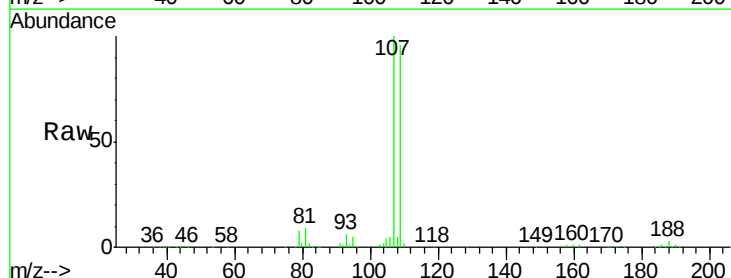
Acq: 15 Feb 2019 14:12

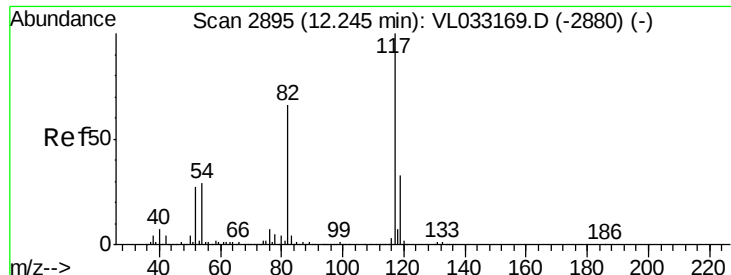
Tgt Ion: 107 Resp: 1292468

Ion Ratio Lower Upper

107 100

109 96.3 73.2 109.8

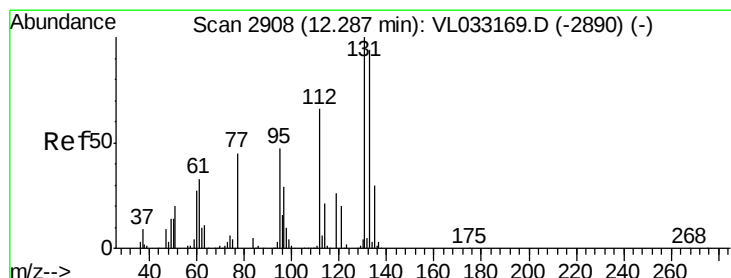
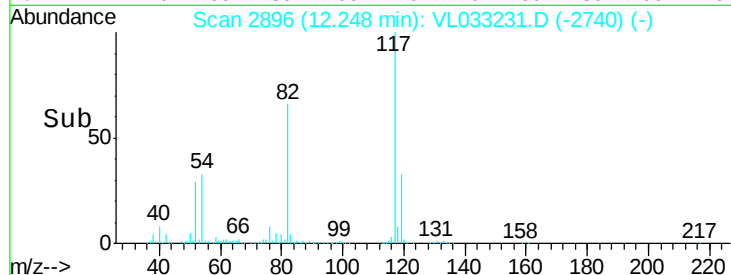
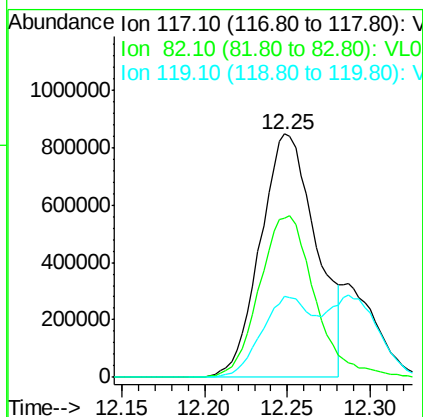
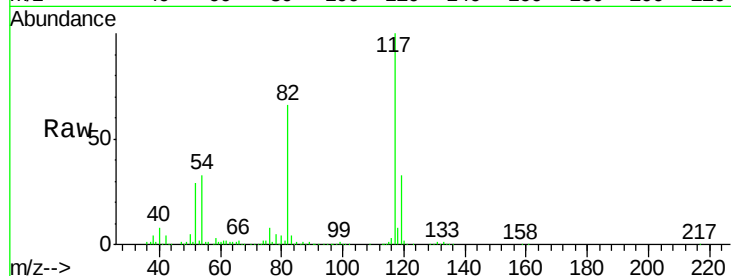




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

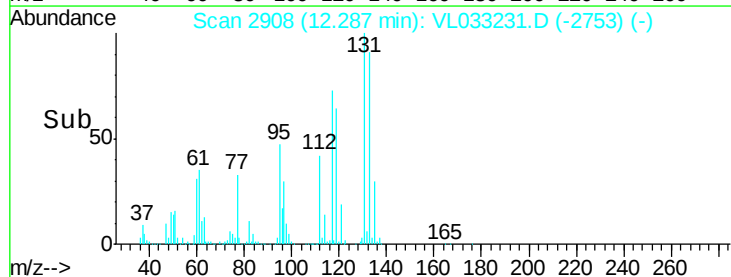
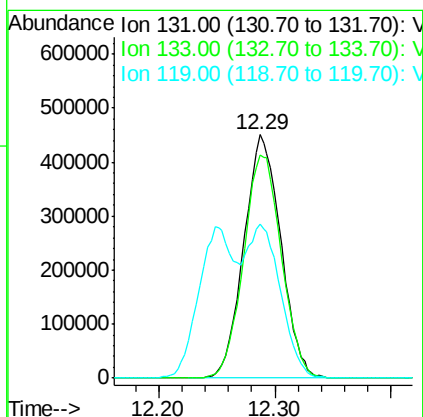
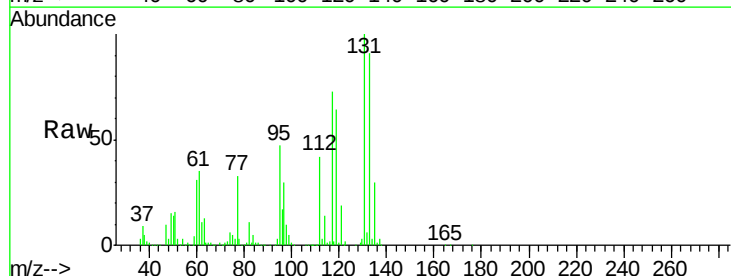
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

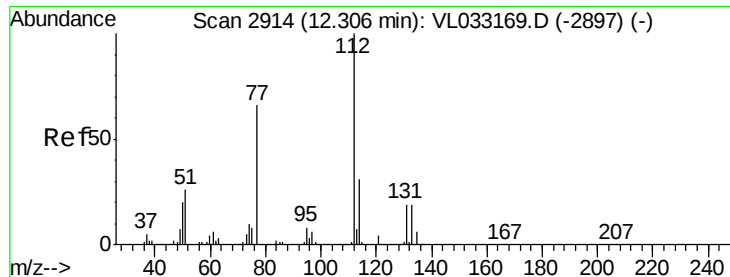
Tot Ion:117 Resp: 1988203
Ion Ratio Lower Upper
117 100
82 66.1 49.5 74.3
119 27.4 24.4 36.6



#56
1,1,1,2-Tetrachloroethane
Concen: 10.906 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

Tgt Ion:131 Resp: 995226
Ion Ratio Lower Upper
131 100
133 94.4 75.8 113.6
119 58.5 110.9 166.3#





#57

Chlorobenzene

Concen: 9.694 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

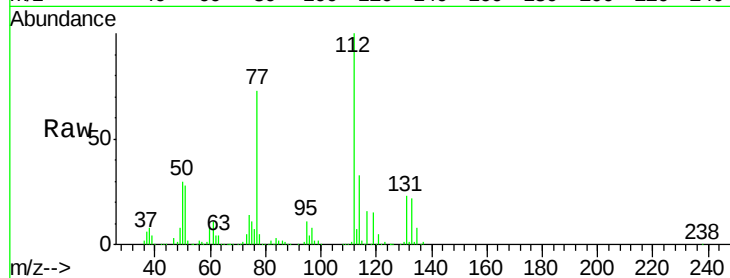
Tot Ion:112 Resp: 1682763

Ion Ratio Lower Upper

112 100

77 73.2 54.0 81.0

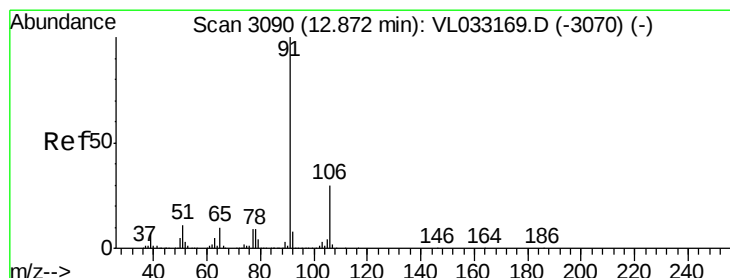
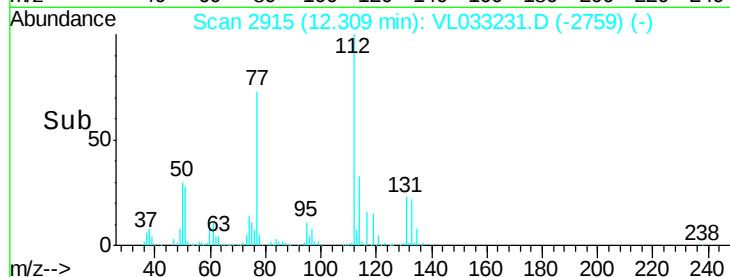
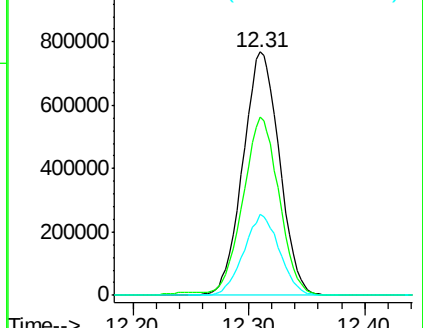
114 33.0 27.9 34.1



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: 9.927 ppbv

RT: 12.88 min Scan# 3091

Delta R.T. 0.00 min

Lab File: VL033231.D

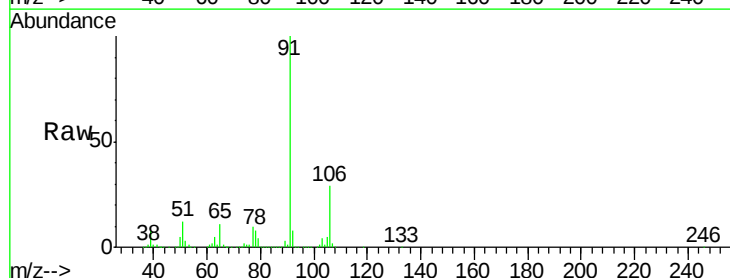
Acq: 15 Feb 2019 14:12

Tgt Ion: 91 Resp: 3194335

Ion Ratio Lower Upper

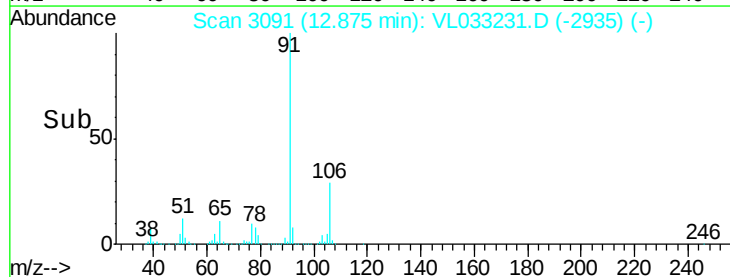
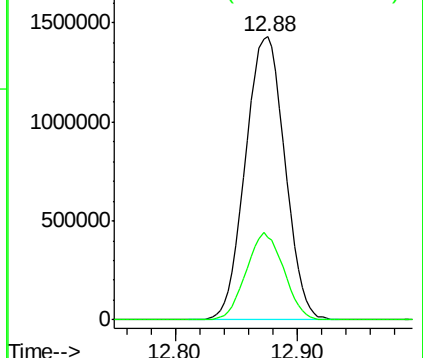
91 100

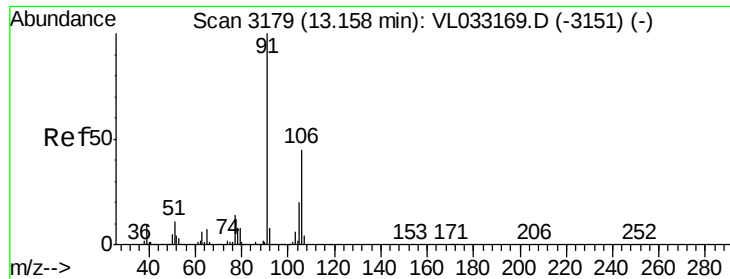
106 29.0 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 19.804 ppbv m

RT: 13.16 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

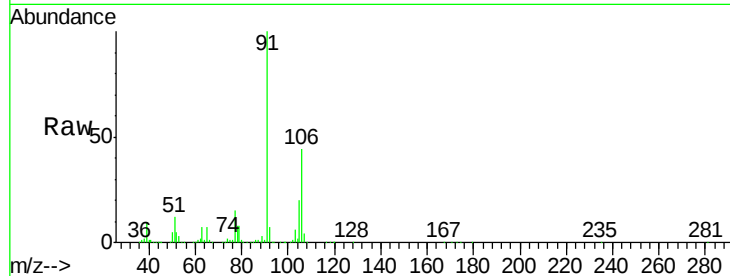
VSTDCCC010EC

Tot Ion: 91 Resp: 5318232

Ion Ratio Lower Upper

91 100

106 44.2 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.16

1500000

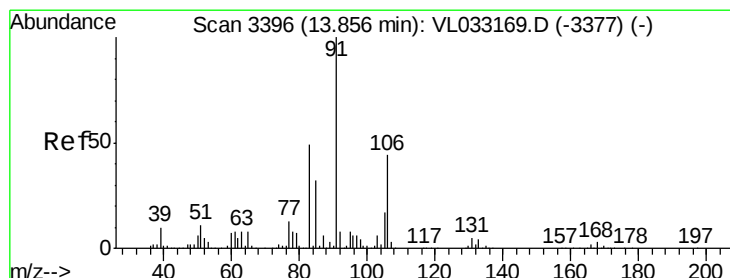
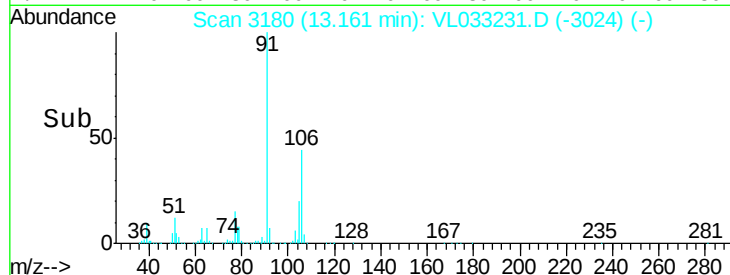
1000000

500000

0

Time-->

13.10 13.20



#60

o-Xylene

Concen: 10.091 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL033231.D

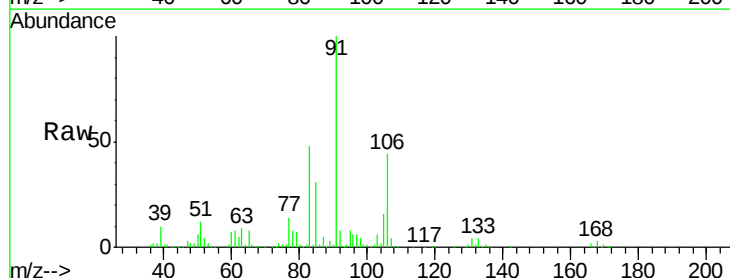
Acq: 15 Feb 2019 14:12

Tgt Ion: 91 Resp: 2635177

Ion Ratio Lower Upper

91 100

106 42.7 21.8 65.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.86

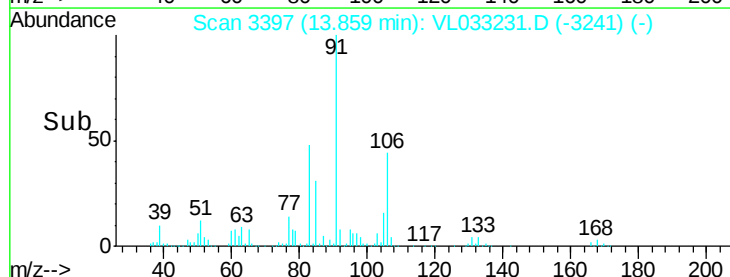
1000000

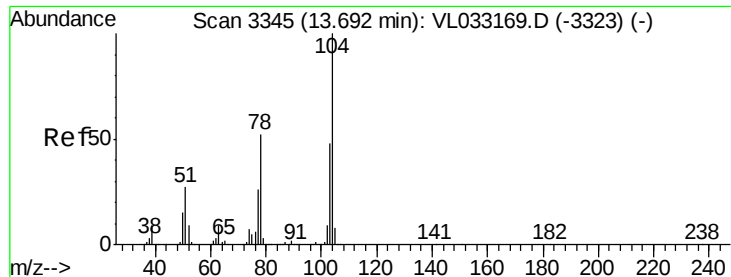
500000

0

Time-->

13.80 13.90

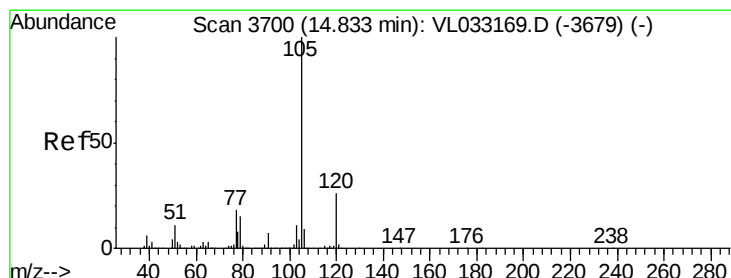
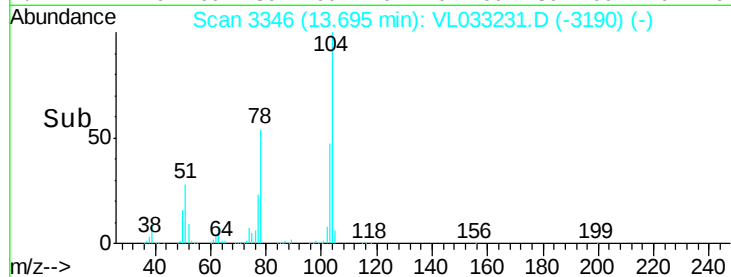
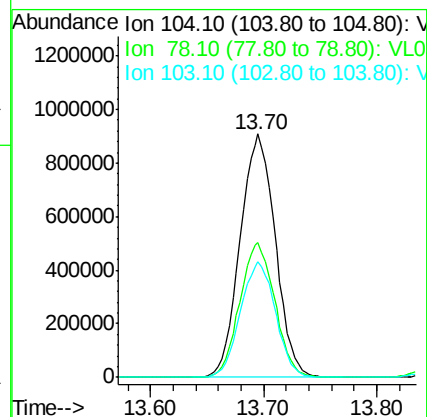
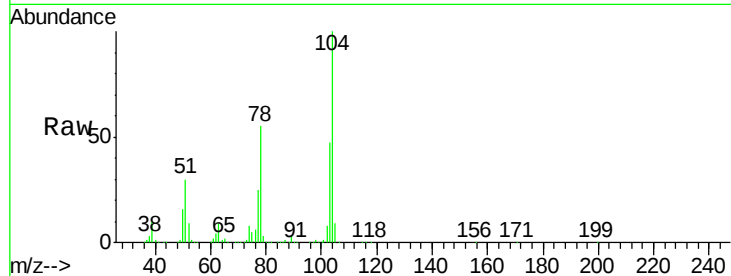




#61
Stvrene
Concen: 9.959 ppbv
RT: 13.70 min Scan# 3346
Delta R.T. 0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

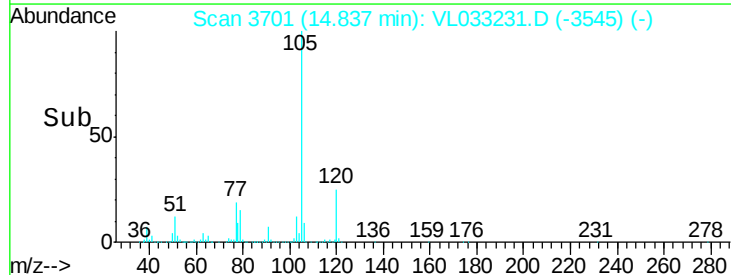
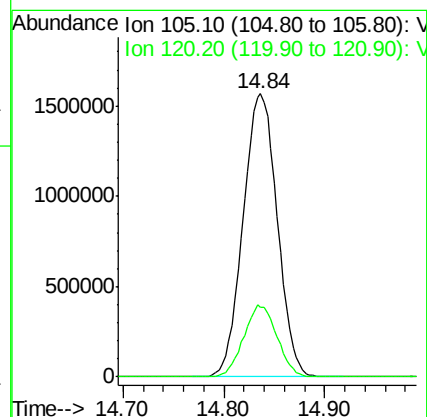
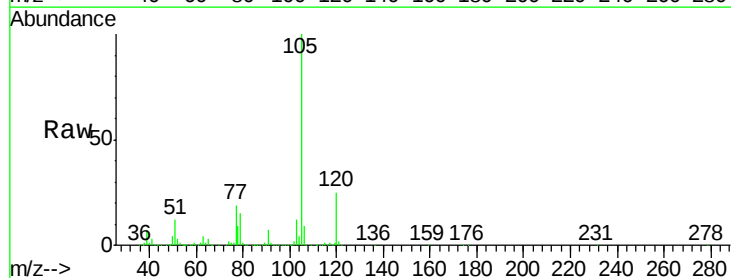
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

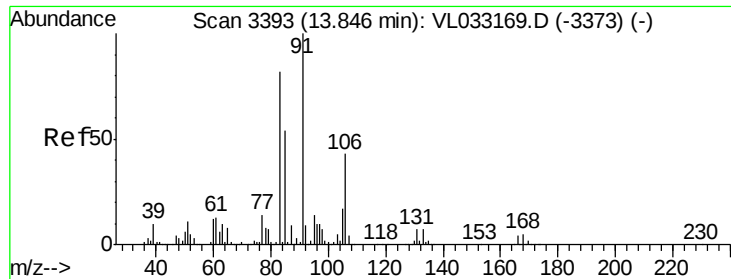
Tot Ion:104 Resp: 1961710
Ion Ratio Lower Upper
104 100
78 55.1 41.9 62.9
103 47.6 37.9 56.9



#62
Isopropylbenzene
Concen: 9.967 ppbv
RT: 14.84 min Scan# 3701
Delta R.T. 0.00 min
Lab File: VL033231.D
Acq: 15 Feb 2019 14:12

Tgt Ion:105 Resp: 3671193
Ion Ratio Lower Upper
105 100
120 24.8 20.3 30.5

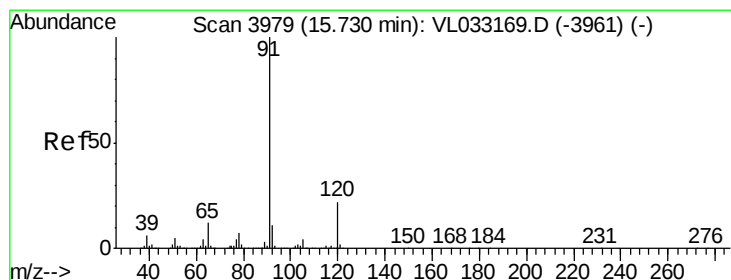
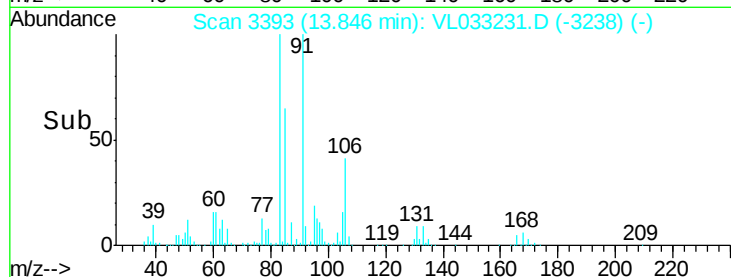
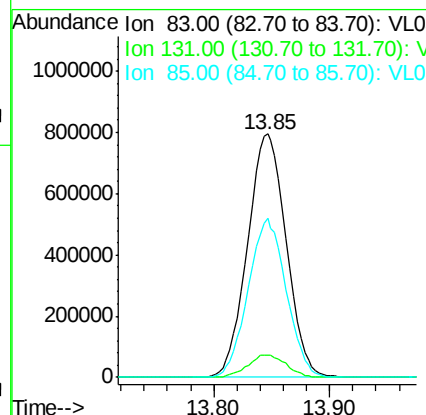
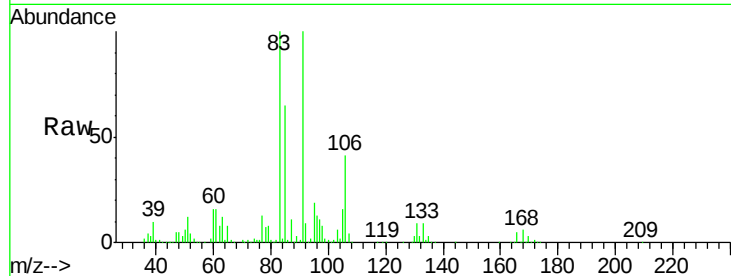




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.986 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. -0.00 min
 Lab File: VL033231.D
 Acq: 15 Feb 2019 14:12

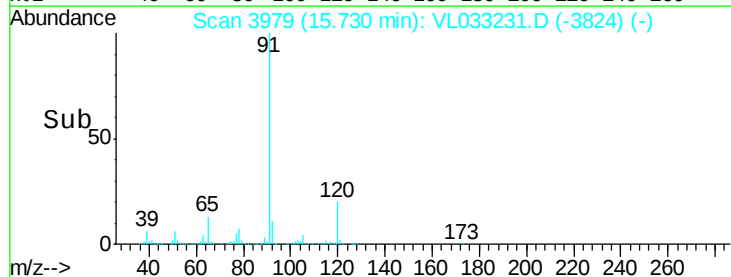
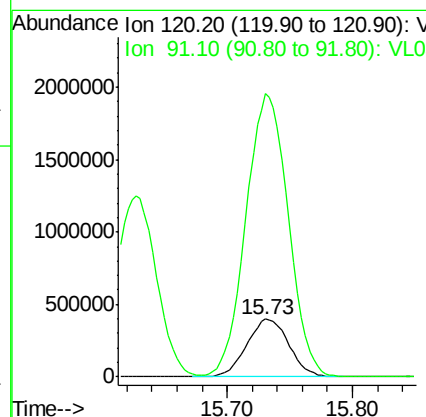
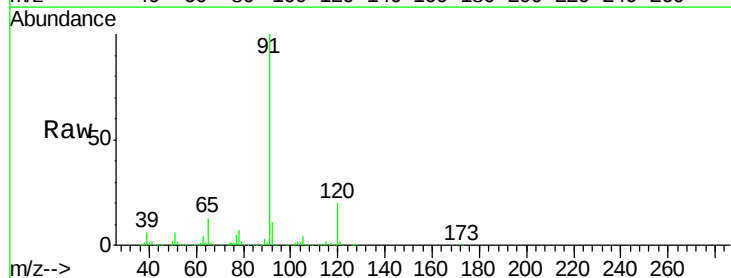
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

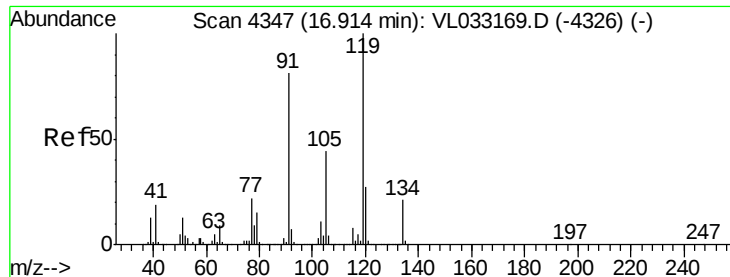
Tot Ion: 83 Resp: 1843565
 Ion Ratio Lower Upper
 83 100
 131 9.2 4.8 14.3
 85 64.5 32.8 98.3



#64
 n-propylbenzene
 Concen: 9.940 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. -0.00 min
 Lab File: VL033231.D
 Acq: 15 Feb 2019 14:12

Tgt Ion:120 Resp: 930536
 Ion Ratio Lower Upper
 120 100
 91 493.5 383.9 575.9





#65

tert-Butylbenzene

Concen: 10.137 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. 0.01 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

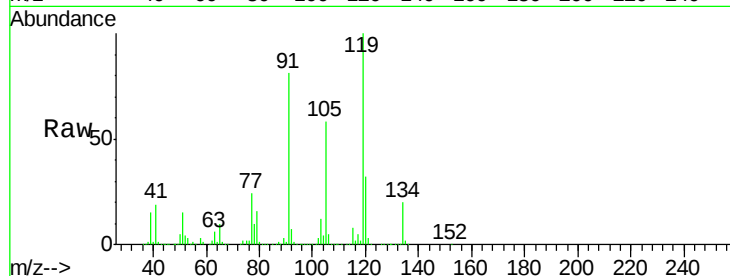
Tot Ion:119 Resp: 3251580

Ion Ratio Lower Upper

119 100

91 83.9 65.7 98.5

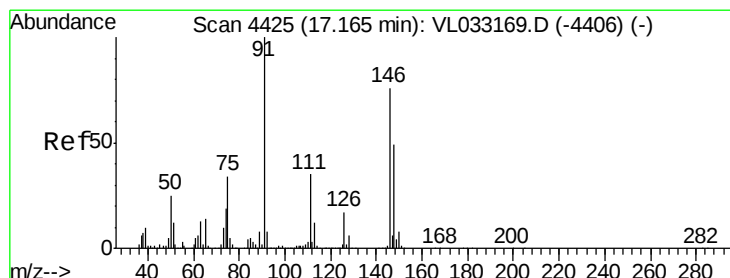
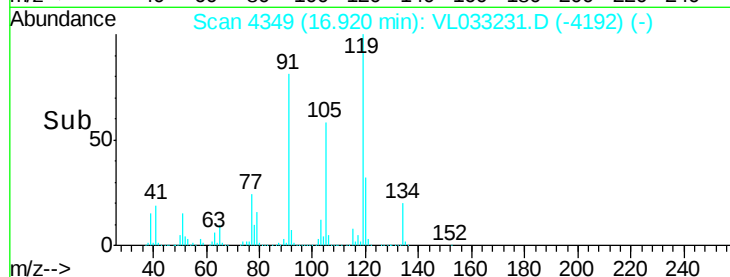
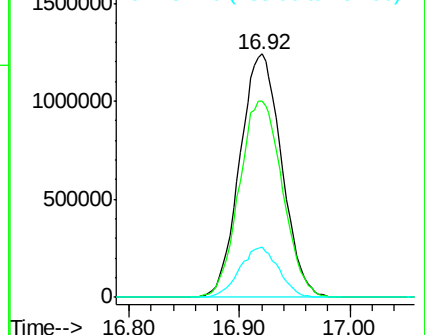
134 19.2 15.8 23.6



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: 14.846 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

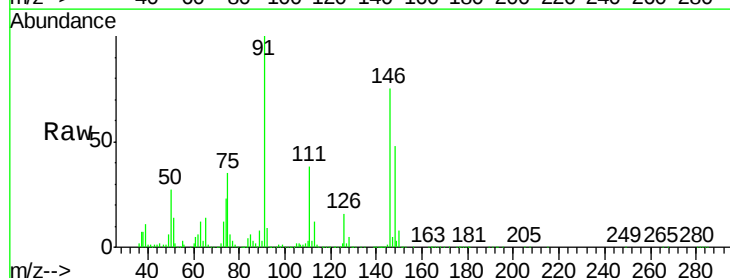
Tgt Ion: 91 Resp: 1690714

Ion Ratio Lower Upper

91 100

126 16.0 13.8 20.6

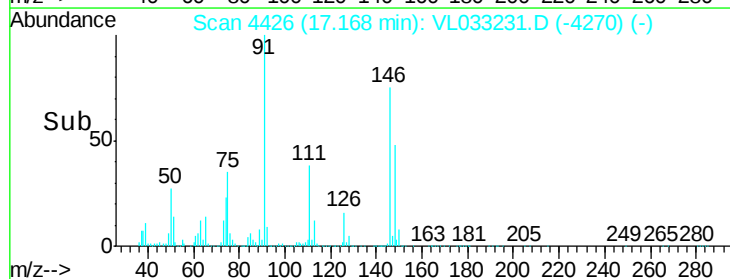
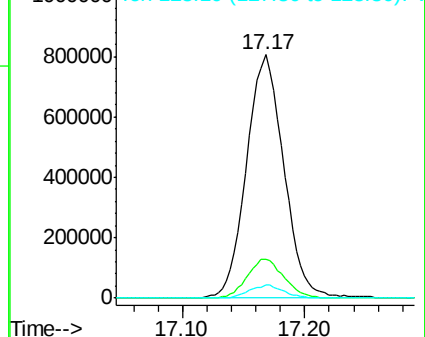
128 5.1 4.5 6.7

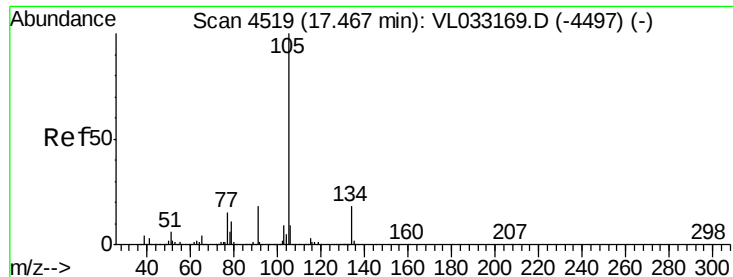


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.025 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

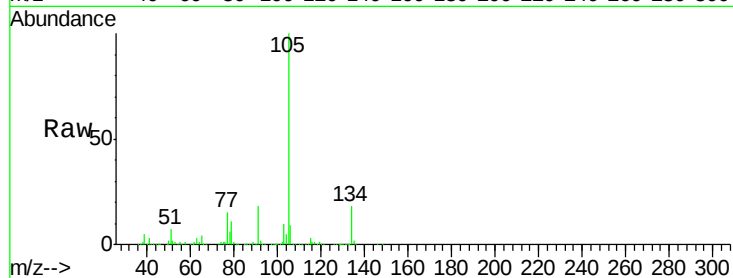
VSTDCCC010EC

Tot Ion:105 Resp: 4668592

Ion Ratio Lower Upper

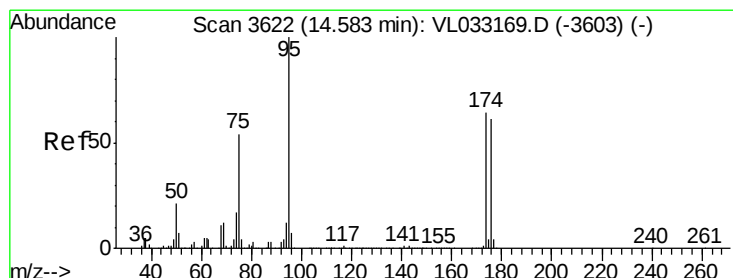
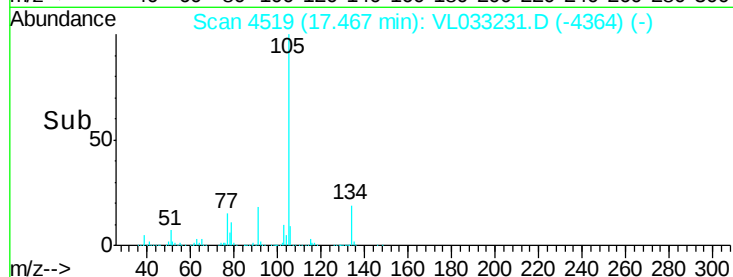
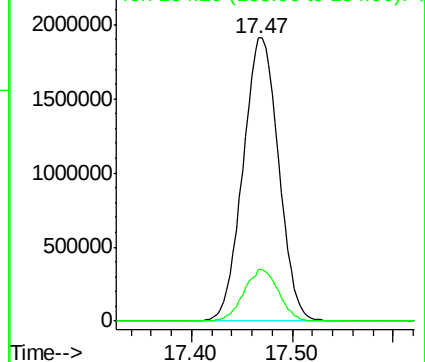
105 100

134 17.9 14.6 22.0



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: 9.938 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. 0.01 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

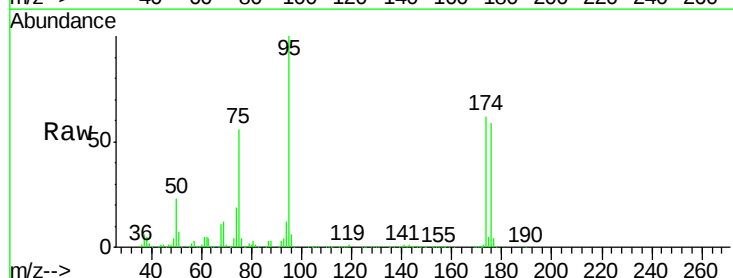
Tgt Ion: 95 Resp: 1521677

Ion Ratio Lower Upper

95 100

174 62.9 51.2 76.8

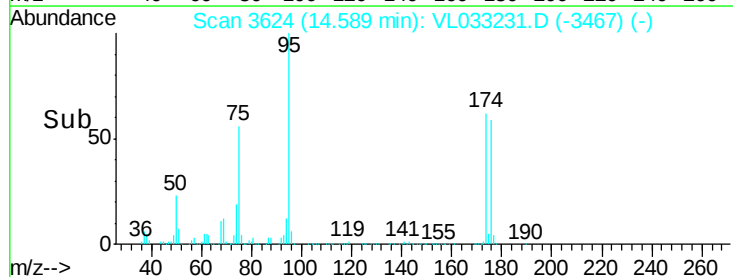
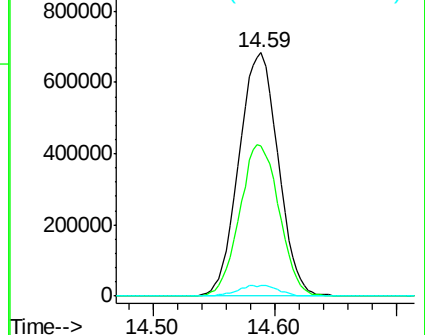
175 4.6 3.8 5.6

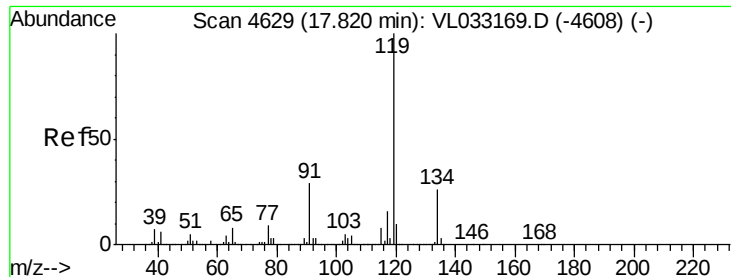


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

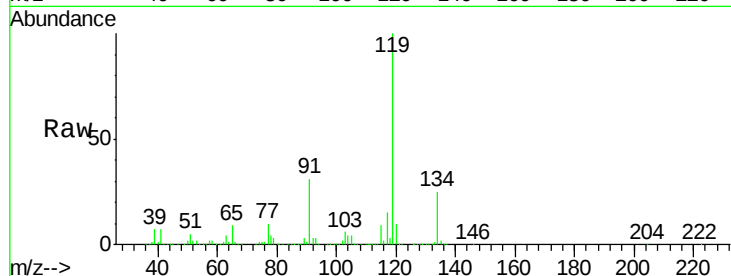




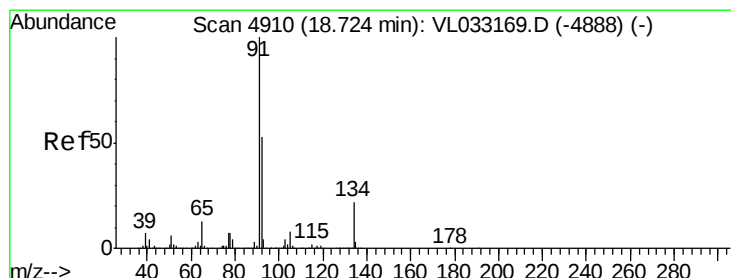
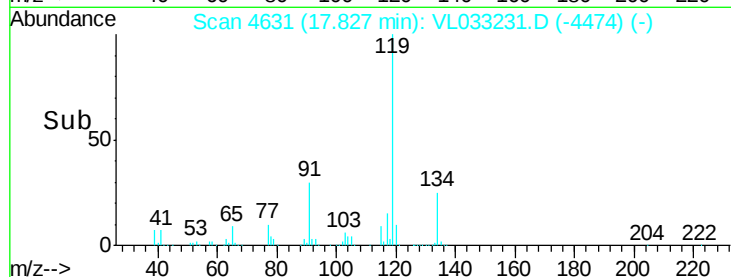
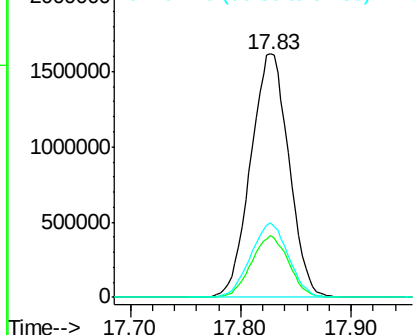
#69
 p-Isopropyltoluene
 Concen: 10.006 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. 0.01 min
 Lab File: VL033231.D
 Acq: 15 Feb 2019 14:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:119 Resp: 3880902
 Ion Ratio Lower Upper
 119 100
 134 24.7 20.4 30.6
 91 30.1 23.4 35.2

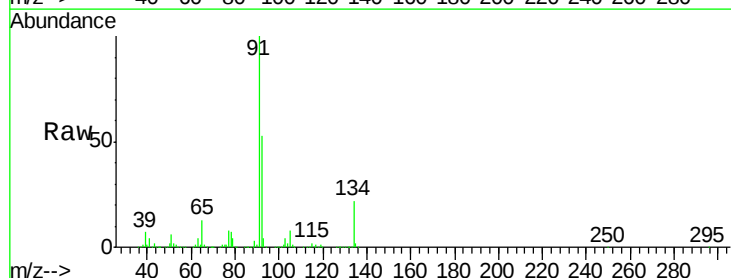


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

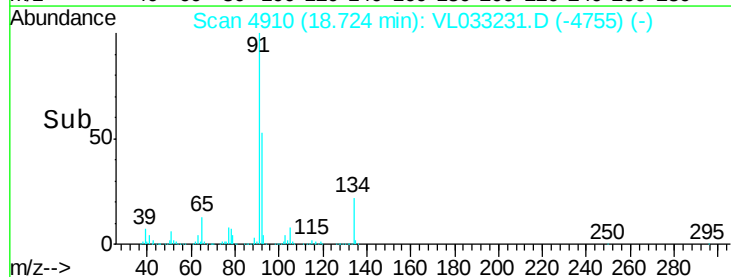
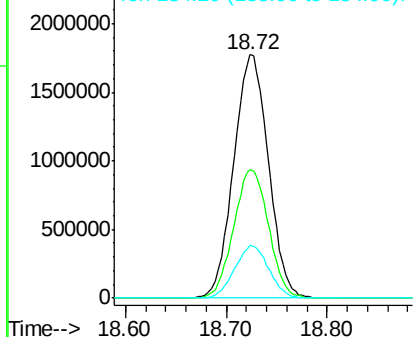


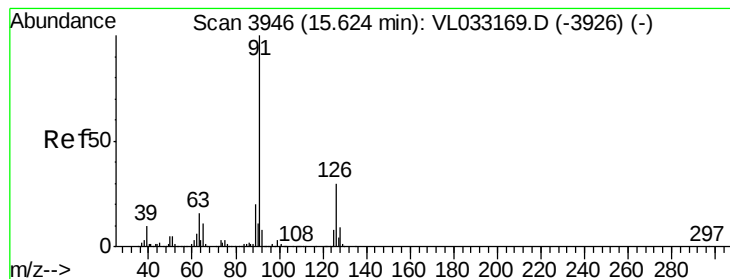
#70
 n-Butylbenzene
 Concen: 10.080 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. -0.00 min
 Lab File: VL033231.D
 Acq: 15 Feb 2019 14:12

Tgt Ion: 91 Resp: 4218365
 Ion Ratio Lower Upper
 91 100
 92 53.2 43.0 64.4
 134 21.3 17.5 26.3



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





#71

2-Chlorotoluene

Concen: 9.992 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

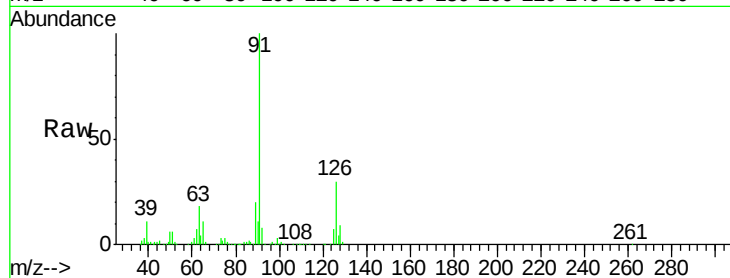
VSTDCCC010EC

Tot Ion: 91 Resp: 2891710

Ion Ratio Lower Upper

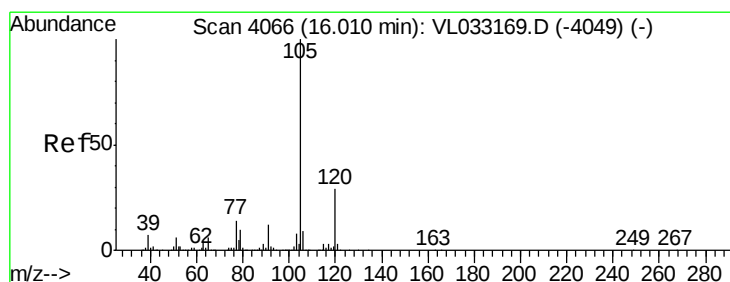
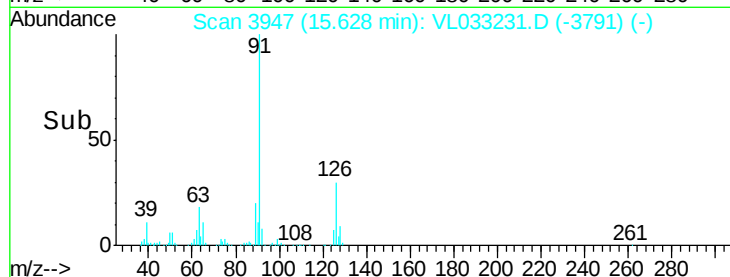
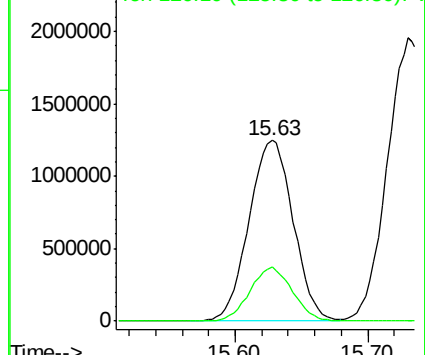
91 100

126 28.7 11.8 47.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.164 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Tgt Ion:105 Resp: 3059270

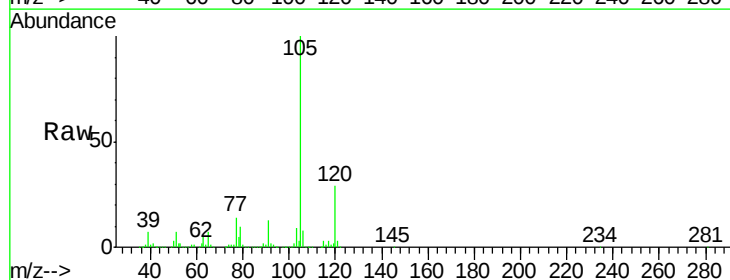
Ion Ratio Lower Upper

105 100

120 28.5 23.1 34.7

91 12.9 9.8 14.6

77 14.4 10.9 16.3

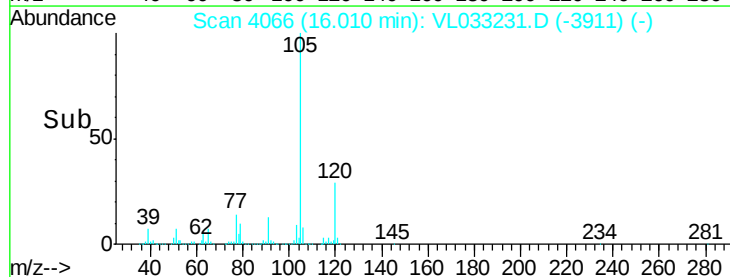
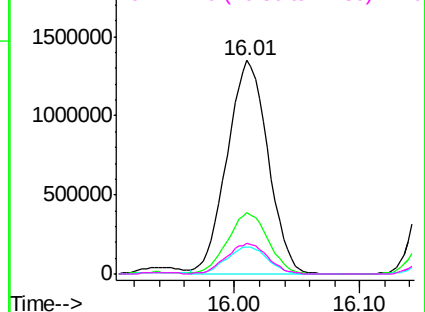


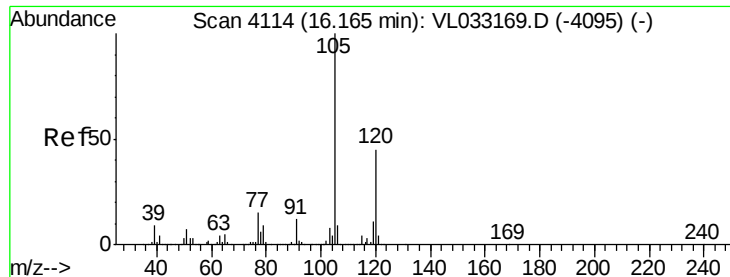
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.193 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

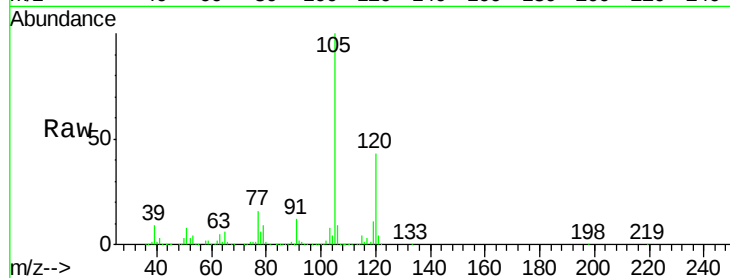
VSTDCCC010EC

Tot Ion:105 Resp: 2934152

Ion Ratio Lower Upper

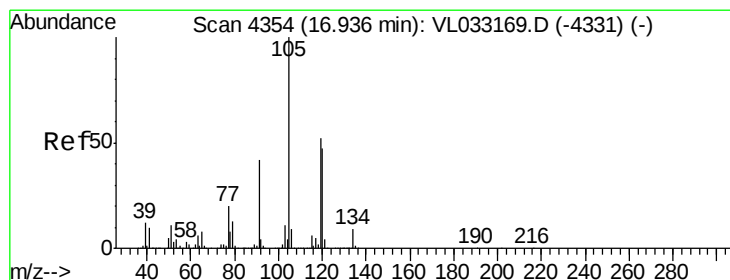
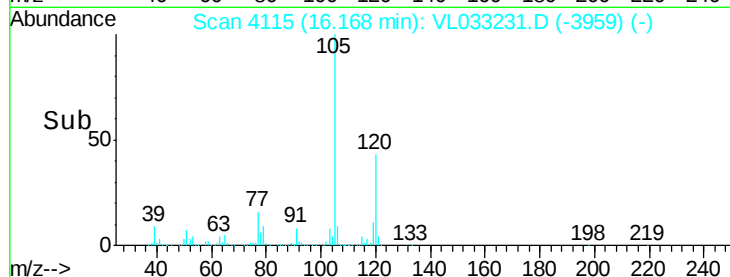
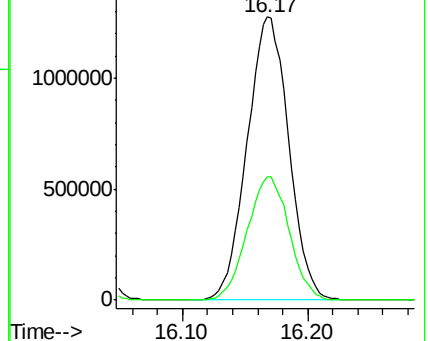
105 100

120 43.5 36.2 54.4



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: 10.069 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Tgt Ion:105 Resp: 3008134

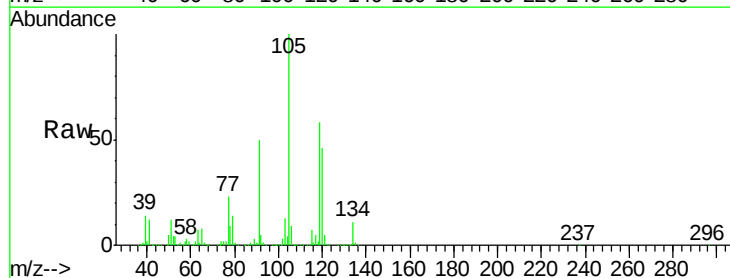
Ion Ratio Lower Upper

105 100

120 46.2 37.9 56.9

91 50.1 34.0 51.0

77 22.4 15.7 23.5

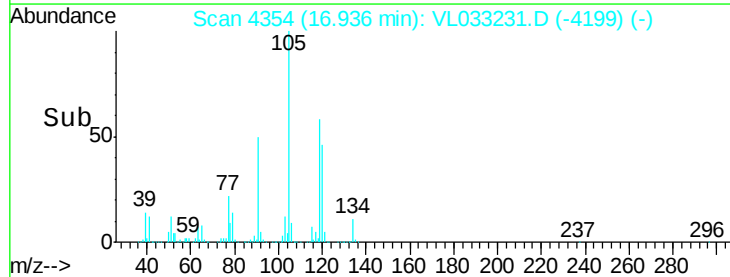
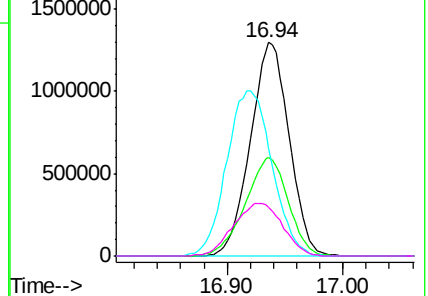


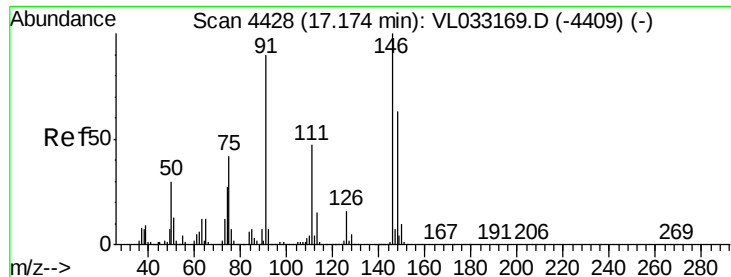
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.914 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

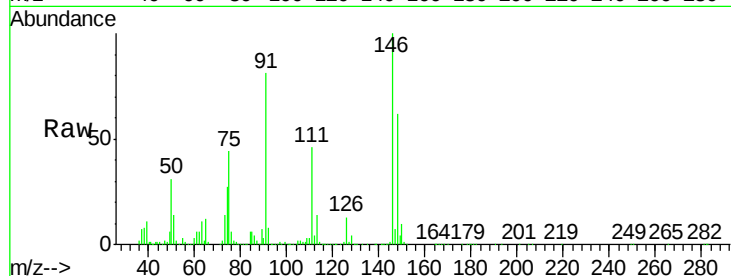
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1707927

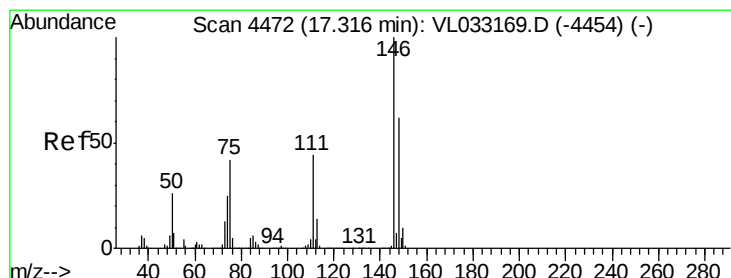
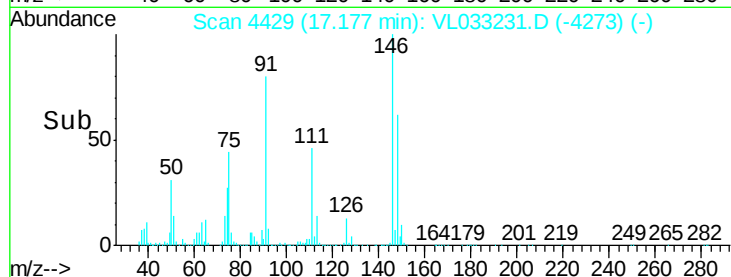
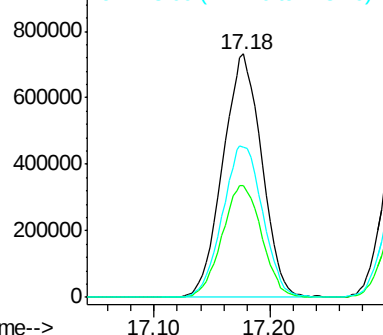
Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.2	69.6
148	64.3	31.8	95.4



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: 10.149 ppbv

RT: 17.32 min Scan# 4473

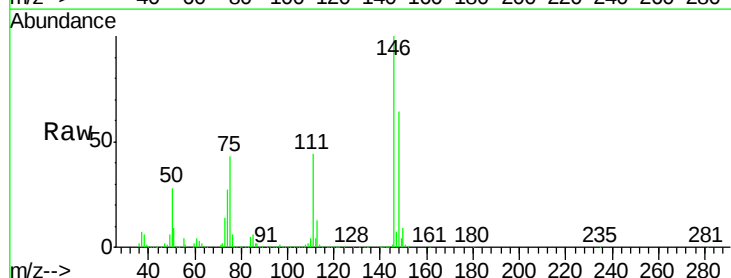
Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Tgt Ion:146 Resp: 1731612

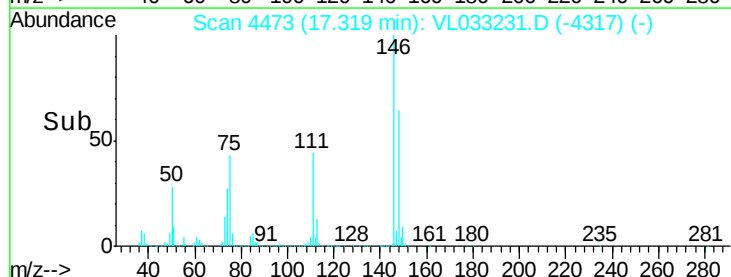
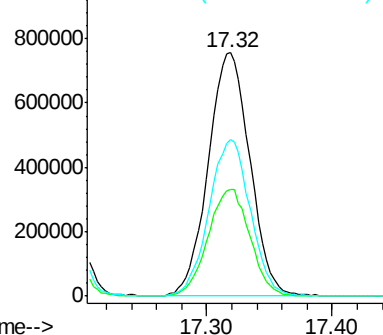
Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.4	67.0
148	64.4	31.9	95.9

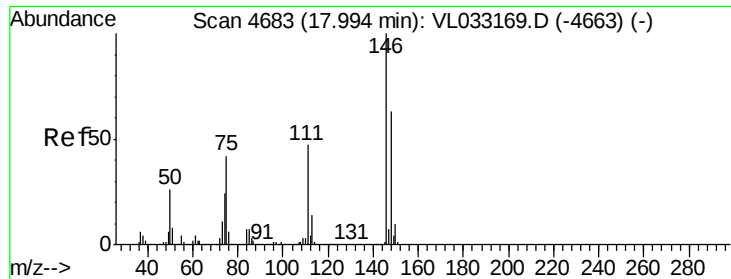


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 10.035 ppbv

RT: 18.00 min Scan# 4684

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

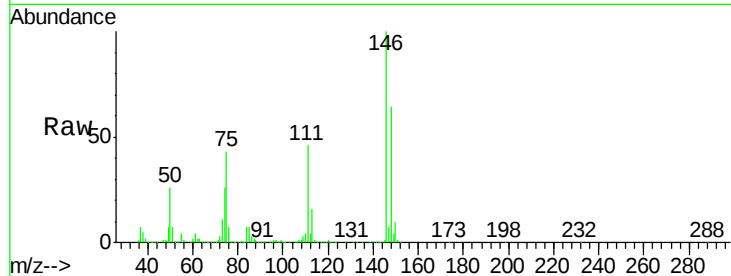
Tot Ion:146 Resp: 1708204

Ion Ratio Lower Upper

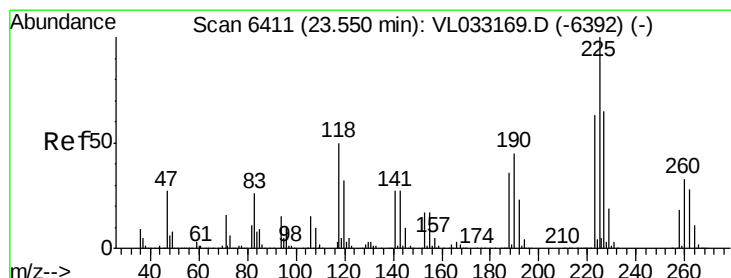
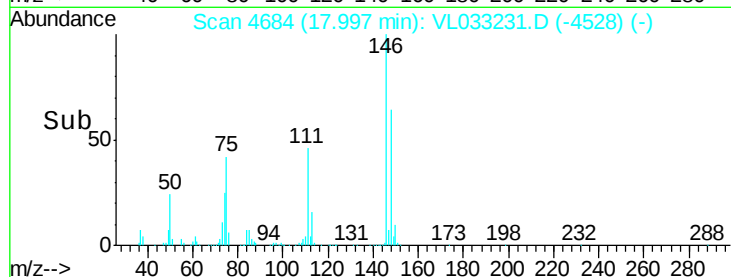
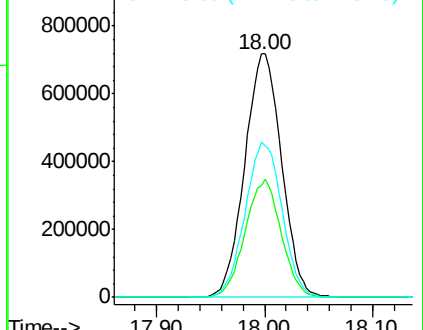
146 100

111 47.3 23.5 70.6

148 64.0 31.9 95.7



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: 16.009 ppbv

RT: 23.55 min Scan# 6412

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

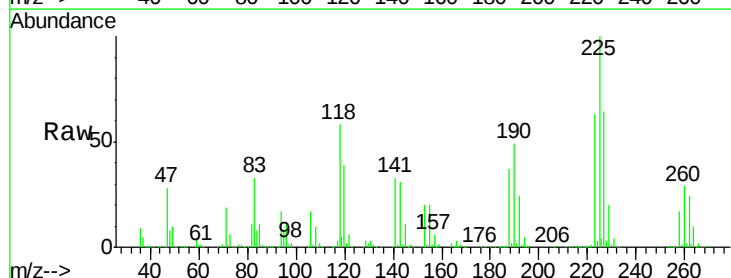
Tgt Ion:225 Resp: 1356566

Ion Ratio Lower Upper

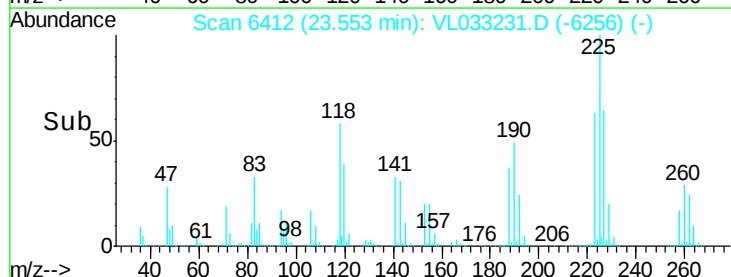
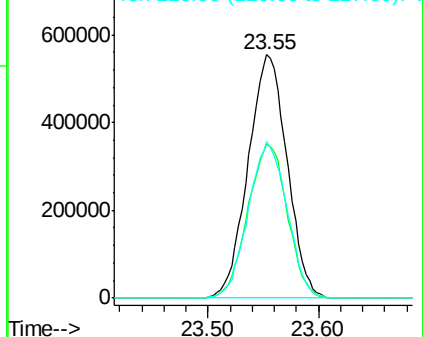
225 100

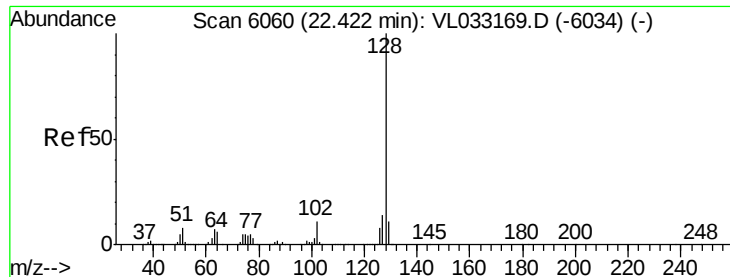
223 64.1 50.6 75.8

227 64.2 51.4 77.2



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.047 ppbv

RT: 22.42 min Scan# 6060

Delta R.T. -0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

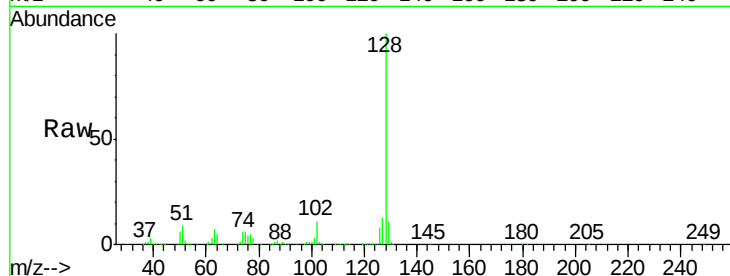
Tot Ion:128 Resp: 3224843

Ion Ratio Lower Upper

128 100

127 12.7 11.0 16.4

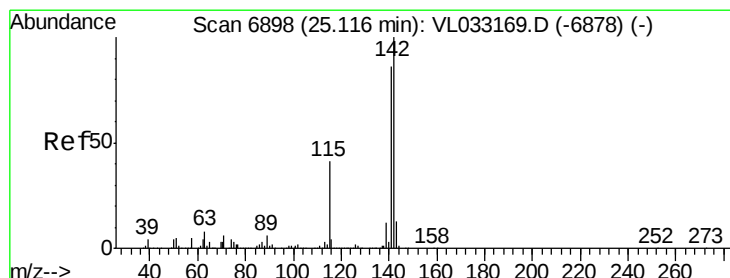
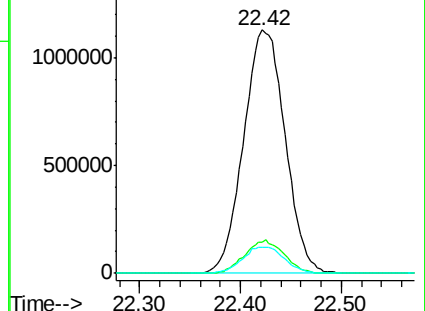
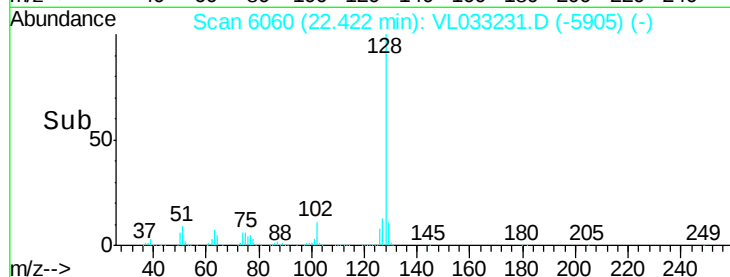
129 10.6 8.6 12.8



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 9.259 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.01 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

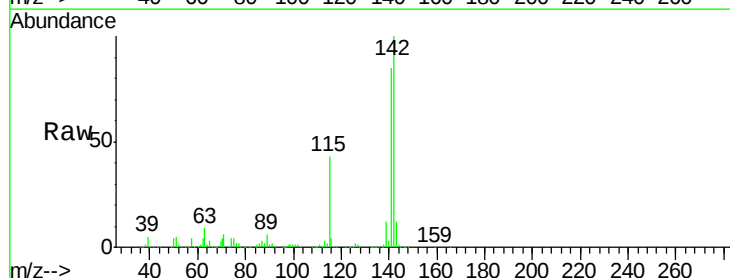
Tgt Ion:142 Resp: 1504891

Ion Ratio Lower Upper

142 100

141 85.3 67.7 101.5

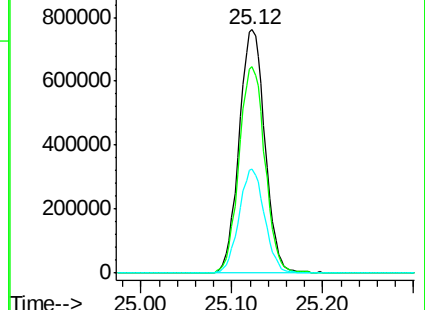
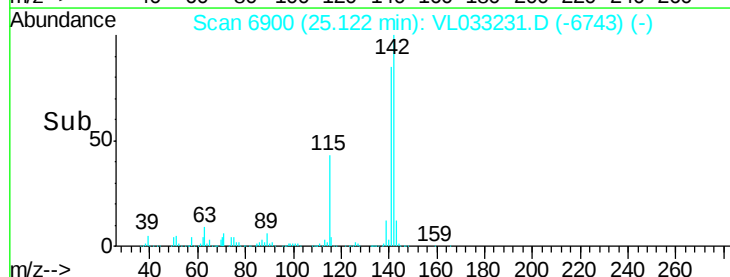
115 42.2 32.7 49.1

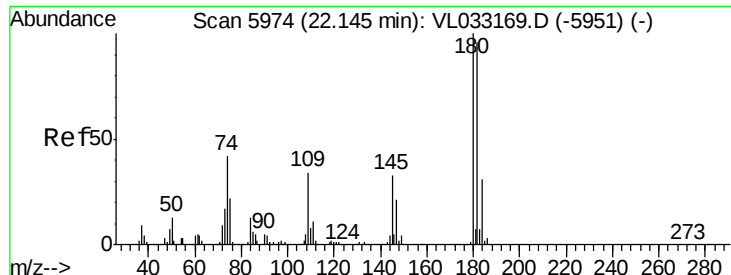


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 9.782 ppbv

RT: 22.15 min Scan# 5975

Delta R.T. 0.00 min

Lab File: VL033231.D

Acq: 15 Feb 2019 14:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

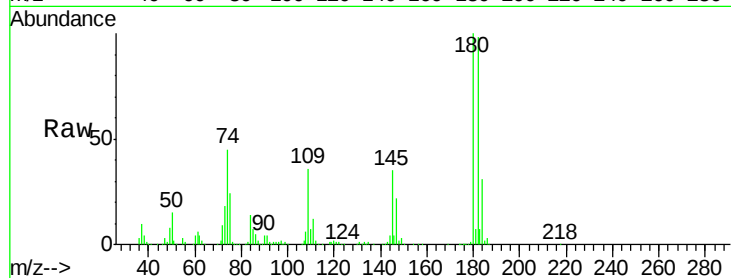
Tot Ion:180 Resp: 1595377

Ion Ratio Lower Upper

180 100

182 95.6 75.8 113.8

184 30.8 24.3 36.5



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

