

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121719\
 Data File : VL034507.D
 Acq On : 18 Dec 2019 9:05
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Quant Time: Dec 19 01:23:55 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 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1002562	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.20	114	1998707	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2253551	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1769668	9.33	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1213339	6.69	ppbv	98
3) Chlorodifluoromethane	2.95	51	1133870	9.06	ppbv	98
4) Chloromethane	3.11	50	696906	9.45	ppbv	99
5) Vinyl Chloride	3.22	62	640424	9.26	ppbv	91
6) Bromomethane	3.45	94	351468	10.10	ppbv	94
7) Chloroethane	3.53	64	246248	9.81	ppbv	97
8) Dichlorotetrafluoroethane	3.16	85	1503058	9.23	ppbv	100
9) Propene	2.97	41	476670	8.58	ppbv	99
10) Heptane	8.14	43	1283267	8.95	ppbv	98
11) Trichlorofluoromethane	3.93	101	1760874	9.76	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1168225	9.75	ppbv	99
13) Ethanol	3.58	45	129126	8.35	ppbv	96
14) Bromoethene	3.72	108	481961	9.89	ppbv	100
15) Acetone	3.83	43	1495660	10.42	ppbv	97
16) 1,3-Butadiene	3.29	39	587169	9.39	ppbv	98
17) tert-Butyl alcohol	4.28	59	1242031	10.29	ppbv	99
18) 1,1-Dichloroethene	4.27	96	521273	9.94	ppbv	99
19) Isopropyl Alcohol	3.95	45	997636	10.84	ppbv	99
20) Methylene Chloride	4.33	84	452628	8.89	ppbv	92
21) Allyl Chloride	4.39	41	893135	10.38	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	534768	10.12	ppbv	91
23) Vinyl Acetate	5.07	43	1926749	10.27	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1317084	9.14	ppbv	99
25) Ethyl Acetate	5.68	43	2315219	9.04	ppbv	100
26) Hexane	5.69	57	985536	8.95	ppbv	99
27) Carbon Disulfide	4.54	76	1357336	11.32	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1712414	9.38	ppbv	100
29) Chloroform	5.75	83	1629712	9.14	ppbv	98
30) Cyclohexane	7.15	84	778847	9.36	ppbv	100
31) cis-1,2-Dichloroethene	5.55	61	1057757	9.30	ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	1698989	10.17	ppbv	98
34) 2-Butanone	5.24	43	1528746	9.29	ppbv	99
35) Carbon Tetrachloride	7.03	117	1819788	10.59	ppbv	96
36) Benzene	6.91	78	1868573	9.35	ppbv	96
37) 1,2-Dichloroethane	6.32	62	1424524	9.60	ppbv	100
38) Trichloroethene	7.86	130	768683	9.38	ppbv	95
39) 1,2-Dichloropropane	7.63	63	758990	9.86	ppbv	96
40) 1,4-Dioxane	7.85	88	154839	4.60	ppbv #	1
41) Tetrahydrofuran	6.05	42	835140	9.05	ppbv	100
42) Bromodichloromethane	7.82	83	1822833	9.82	ppbv	98
43) Methyl Methacrylate	8.03	69	796683	9.61	ppbv	99

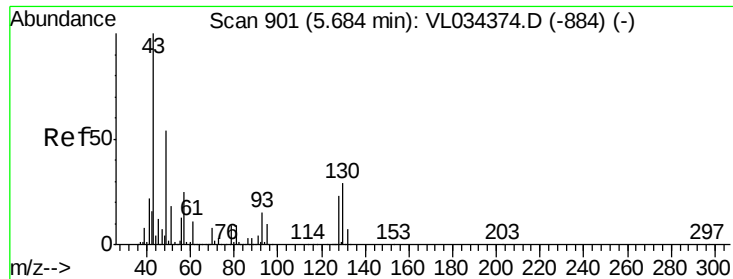
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121719\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3354020	9.19	ppbv	100
45) t-1,3-Dichloropropene	9.31	75	1120939	10.55	ppbv	100
46) cis-1,3-Dichloropropene	8.73	75	1227474	10.28	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	789550	9.22	ppbv	97
48) Dibromochloromethane	10.34	129	1503736	10.23	ppbv	100
49) Bromoform	13.09	173	1320998	10.07	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2256054	9.48	ppbv	100
51) 2-Hexanone	10.17	43	1869316	9.38	ppbv #	98
52) Tetrachloroethene	11.26	164	710277	8.22	ppbv	98
53) Toluene	9.84	91	2139287	9.43	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1218234	9.28	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.17	131	1008833	9.15	ppbv	98
57) Chlorobenzene	12.19	112	1687458	8.28	ppbv	99
58) Ethyl Benzene	12.75	91	2955594	8.45	ppbv	100
59) m/p-Xylene	13.04	91	2684013	8.88	ppbv #	40
60) o-Xylene	13.74	91	2492377	8.34	ppbv	100
61) Styrene	13.57	104	1786934	8.29	ppbv	98
62) Isopropylbenzene	14.72	105	3194663	8.08	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	1710944	7.62	ppbv	100
64) n-propylbenzene	15.61	120	836445	8.15	ppbv	97
65) tert-Butylbenzene	16.80	119	2858582	8.05	ppbv	99
66) Benzyl Chloride	17.05	91	1414691	10.36	ppbv	100
67) sec-Butylbenzene	17.35	105	3948082	7.95	ppbv	100
69) p-Isopropyltoluene	17.71	119	3343407	8.11	ppbv	100
70) n-Butylbenzene	18.61	91	3537415	7.98	ppbv	100
71) 2-Chlorotoluene	15.51	91	2499069	7.93	ppbv	99
72) 4-Ethyltoluene	15.89	105	2786775	8.07	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	2706295	8.01	ppbv	98
74) 1,2,4-Trimethylbenzene	16.82	105	2816899	7.84	ppbv #	90
75) 1,3-Dichlorobenzene	17.06	146	1581910	7.66	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	1588382	7.92	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1557196	7.81	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1622045	9.47	ppbv	99
79) Naphthalene	22.28	128	3028224	9.73	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	1557047	11.08	ppbv	98
81) 1,2,4-Trichlorobenzene	22.01	180	1775233	9.28	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

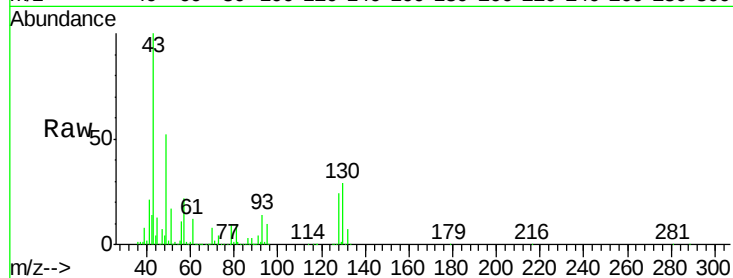
Tot Ion: 49 Resp: 1002562

Ion	Ratio	Lower	Upper
49	100		
128	43.3	21.8	65.3
130	55.6	28.0	84.0

49 100

128 43.3 21.8 65.3

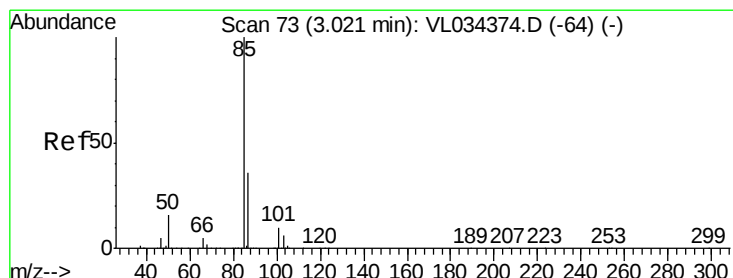
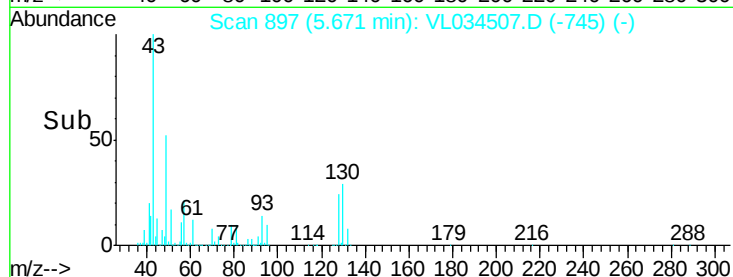
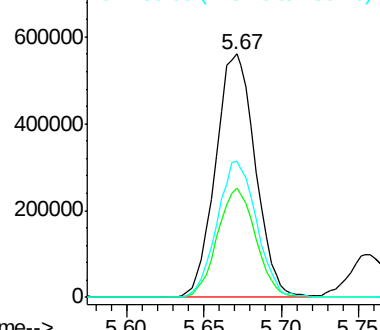
130 55.6 28.0 84.0



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: 6.69 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.01 min

Lab File: VL034507.D

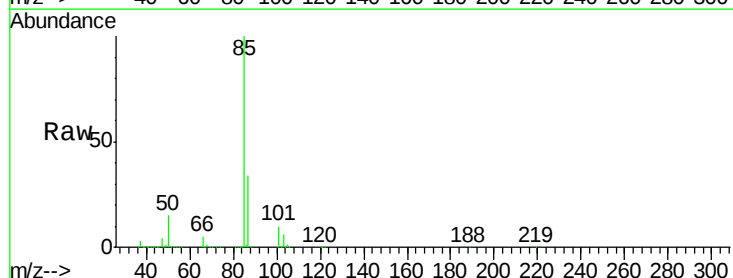
Acq: 18 Dec 2019 9:05

Tgt Ion: 85 Resp: 1213339

Ion	Ratio	Lower	Upper
85	100		
87	34.3	28.5	42.7

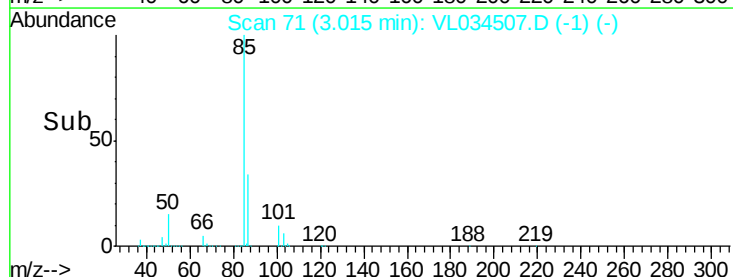
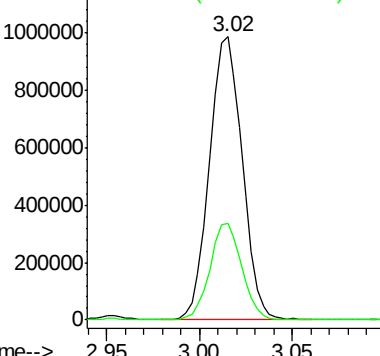
85 100

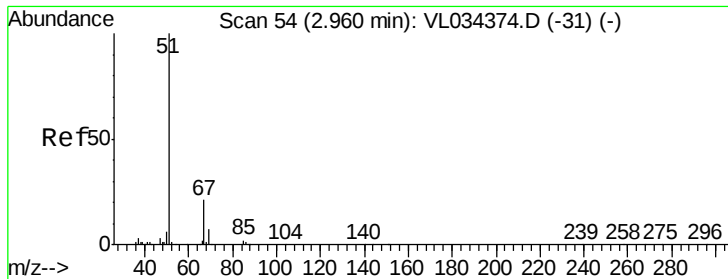
87 34.3 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.06 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

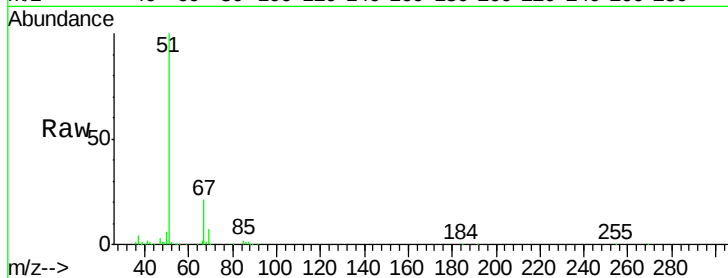
VSTDCCC010EC

Tot Ion: 51 Resp: 1133870

Ion Ratio Lower Upper

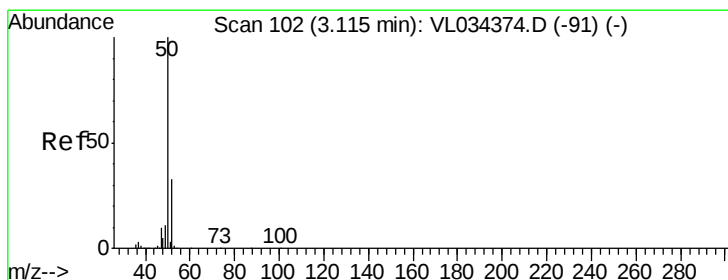
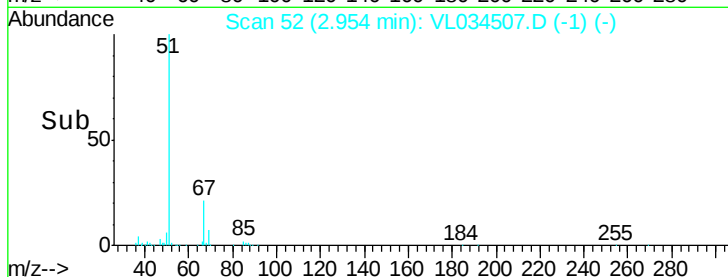
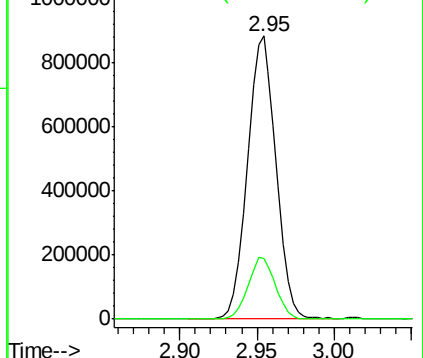
51 100

67 21.1 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.45 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.01 min

Lab File: VL034507.D

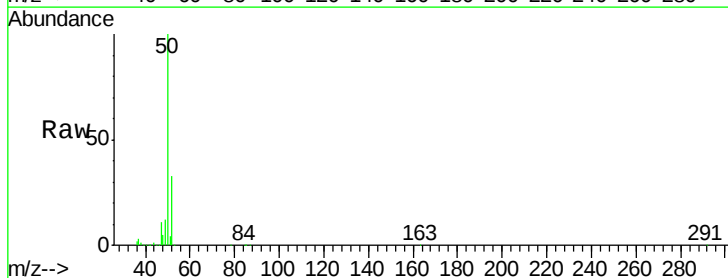
Acq: 18 Dec 2019 9:05

Tgt Ion: 50 Resp: 696906

Ion Ratio Lower Upper

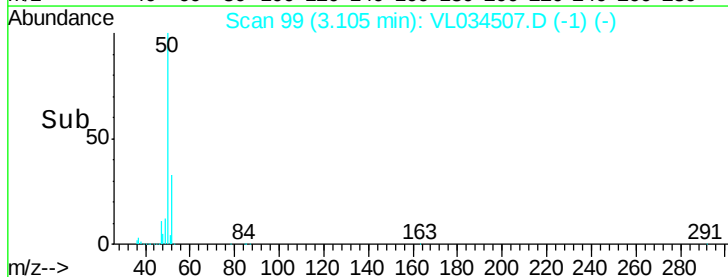
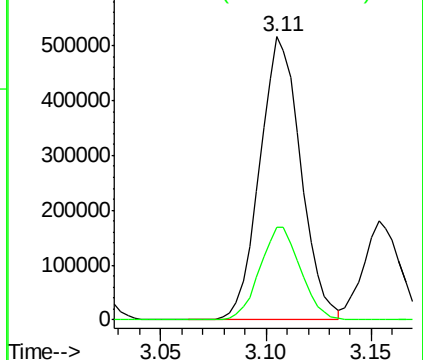
50 100

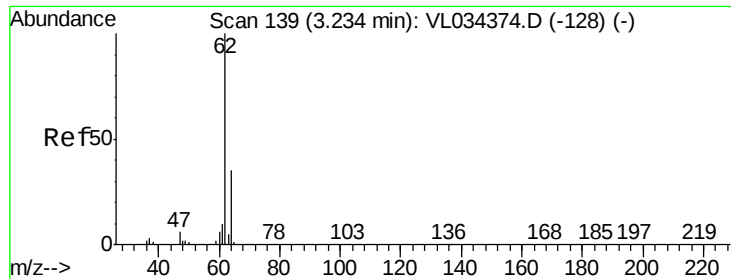
52 32.9 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.26 ppbv

RT: 3.22 min Scan# 136

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

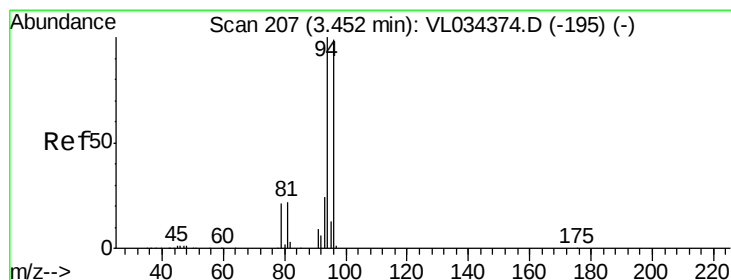
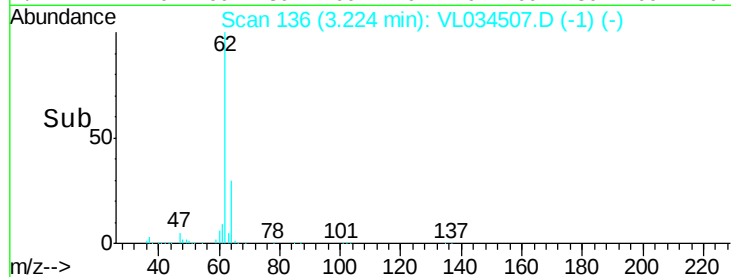
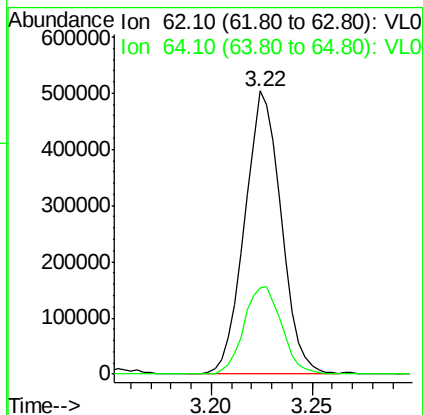
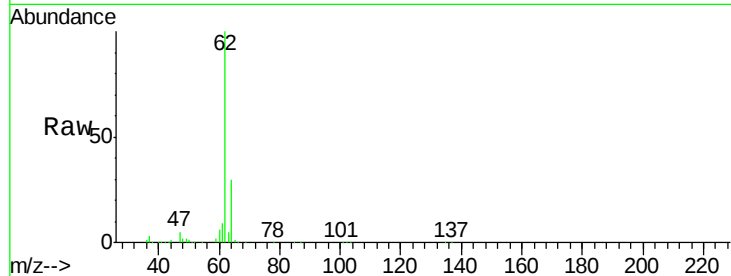
VSTDCCC010EC

Tot Ion: 62 Resp: 640424

Ion Ratio Lower Upper

62 100

64 30.4 28.4 42.6



#6

Bromomethane

Concen: 10.10 ppbv

RT: 3.45 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL034507.D

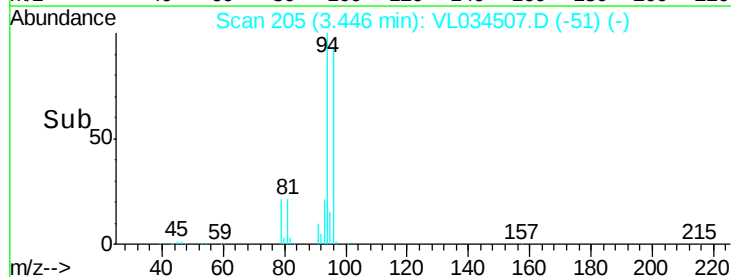
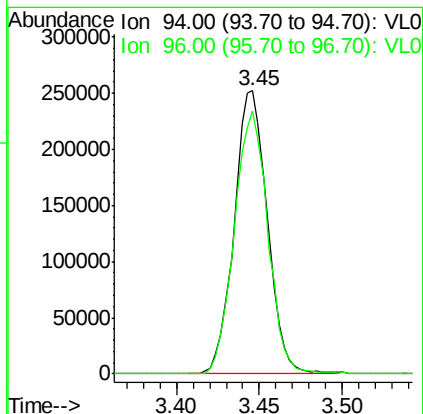
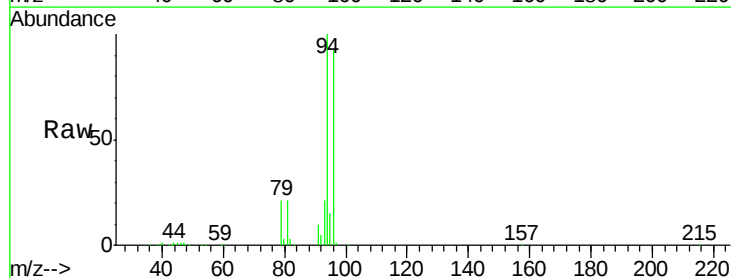
Acq: 18 Dec 2019 9:05

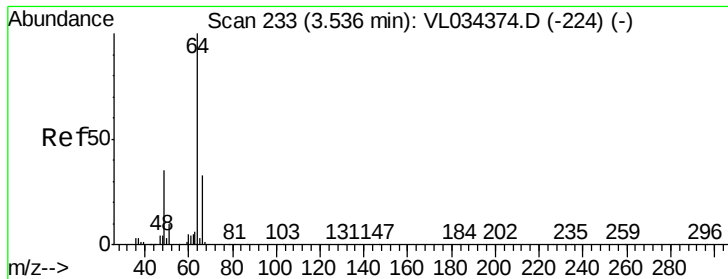
Tgt Ion: 94 Resp: 351468

Ion Ratio Lower Upper

94 100

96 93.0 79.5 119.3





#7

Chloroethane

Concen: 9.81 ppbv

RT: 3.53 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

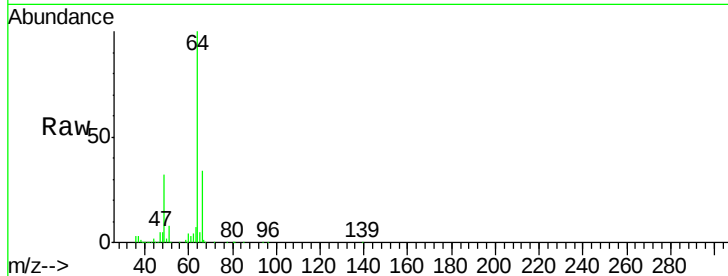
VSTDCCC010EC

Tot Ion: 64 Resp: 246248

Ion Ratio Lower Upper

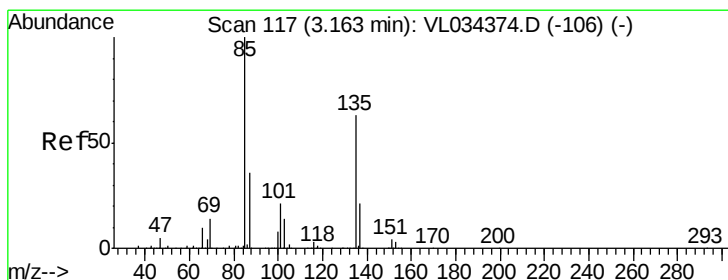
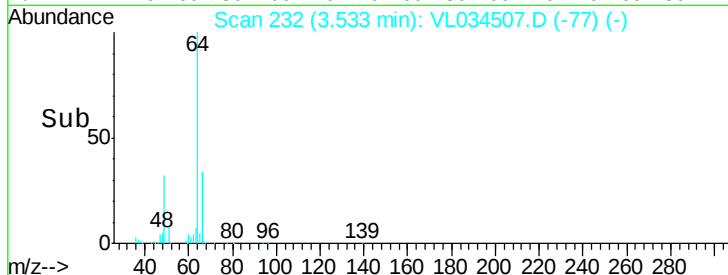
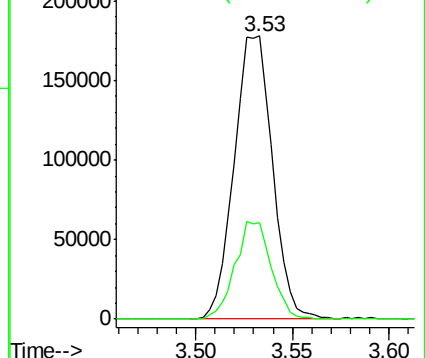
64 100

66 34.3 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.23 ppbv

RT: 3.16 min Scan# 115

Delta R.T. -0.01 min

Lab File: VL034507.D

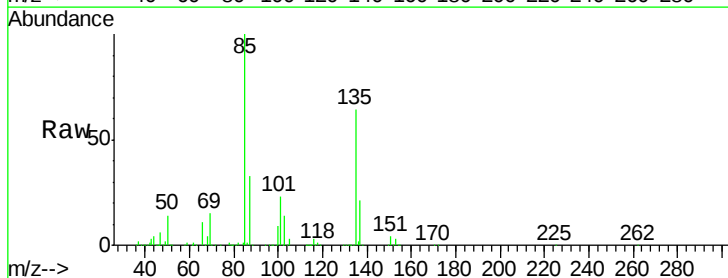
Acq: 18 Dec 2019 9:05

Tgt Ion: 85 Resp: 1503058

Ion Ratio Lower Upper

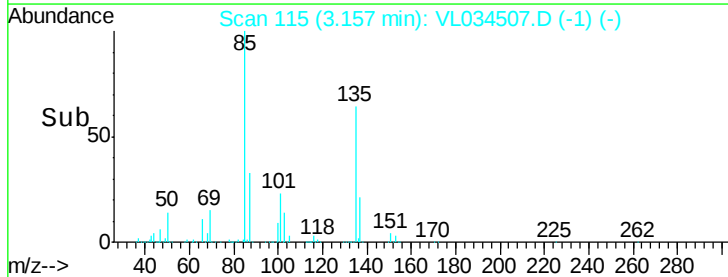
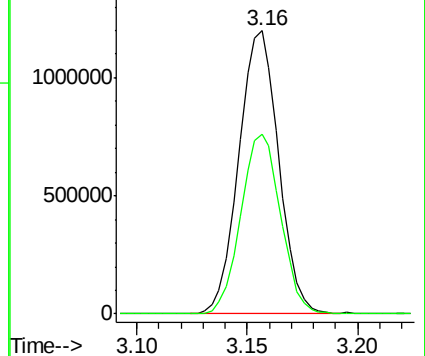
85 100

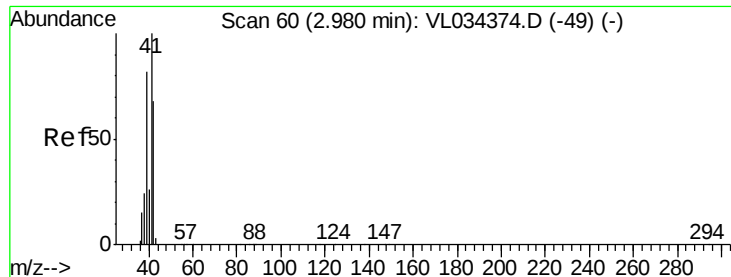
135 63.7 51.1 76.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.58 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

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ClientSampleId :

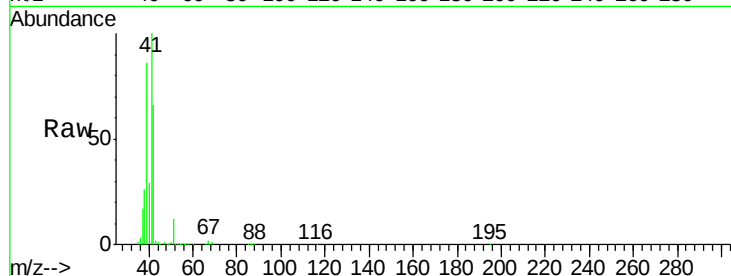
VSTDCCC010EC

Tot Ion: 41 Resp: 476670

Ion Ratio Lower Upper

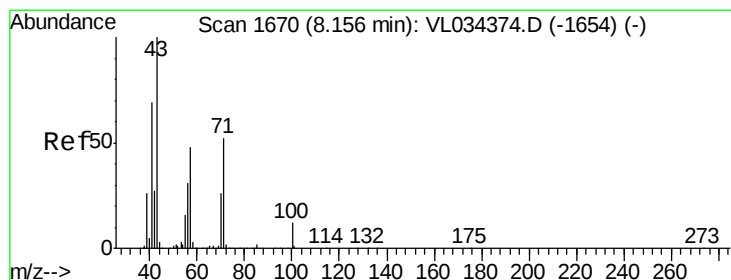
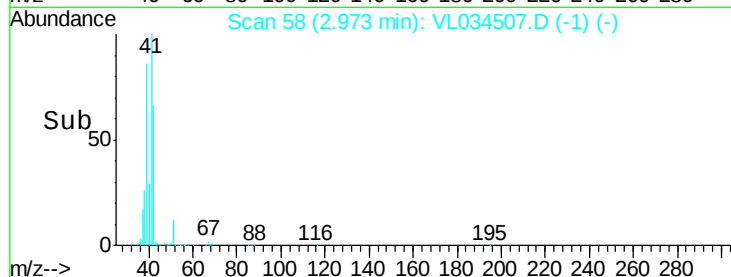
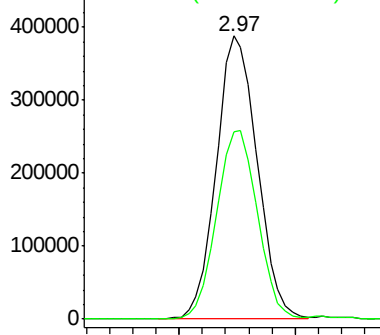
41 100

42 67.8 54.6 82.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 8.95 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. -0.01 min

Lab File: VL034507.D

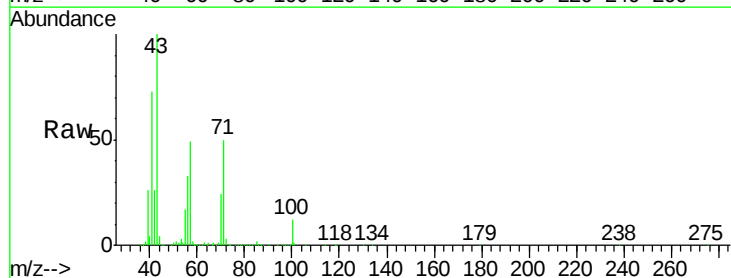
Acq: 18 Dec 2019 9:05

Tgt Ion: 43 Resp: 1283267

Ion Ratio Lower Upper

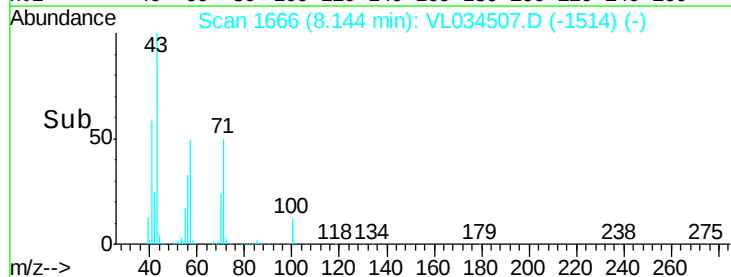
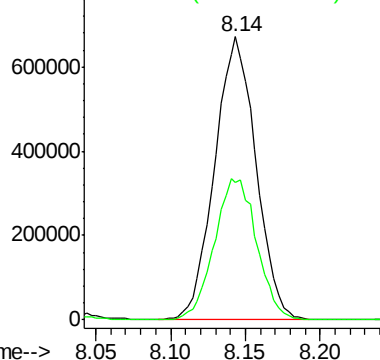
43 100

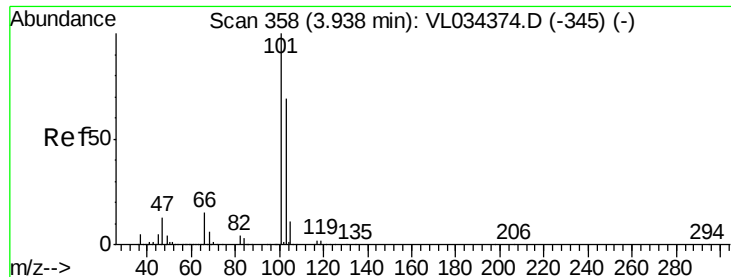
57 51.6 40.2 60.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

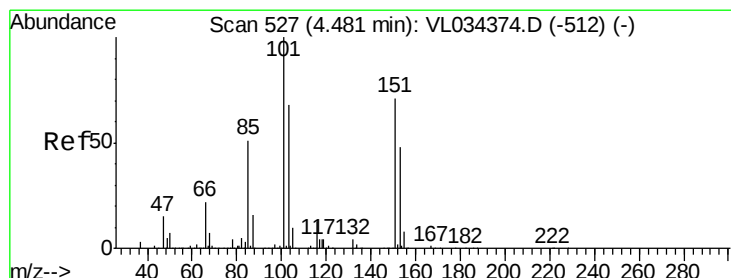
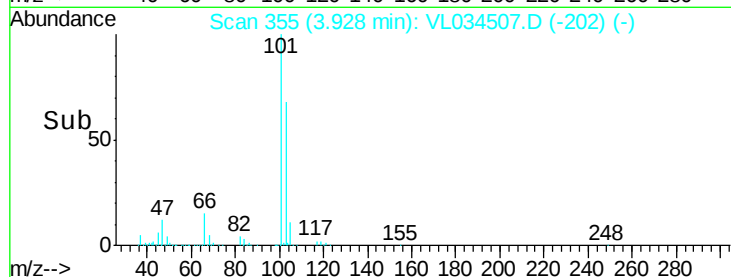
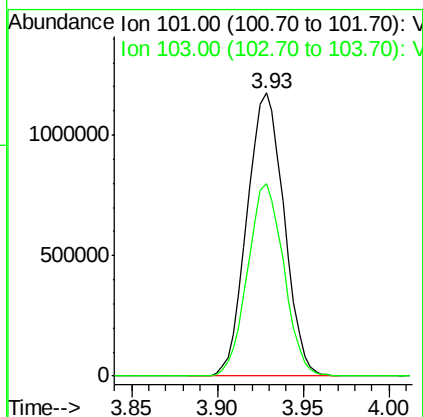
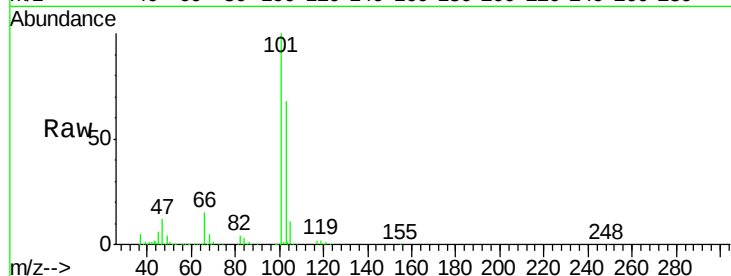




#11
 Trichlorofluoromethane
 Concen: 9.76 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

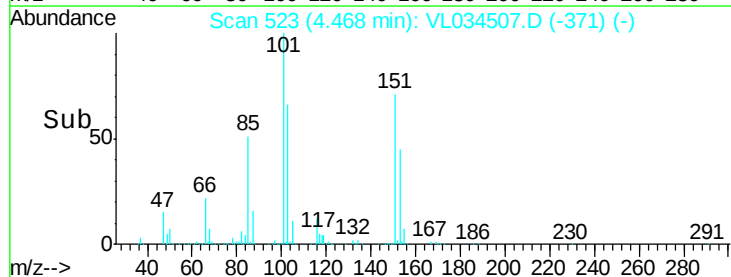
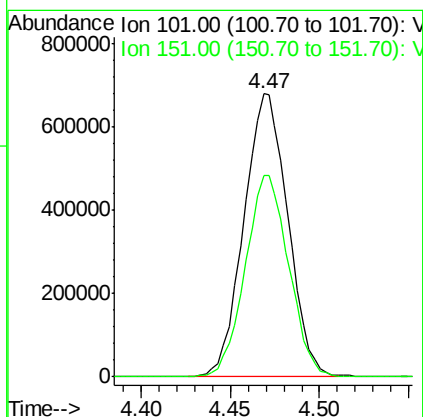
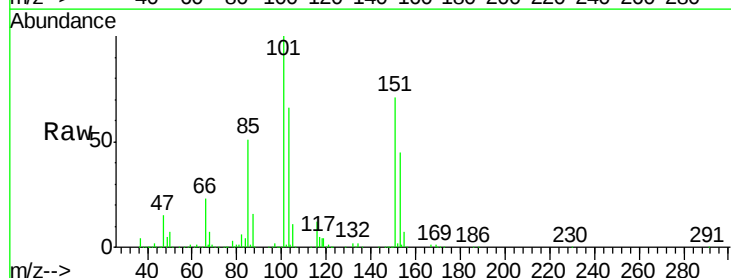
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

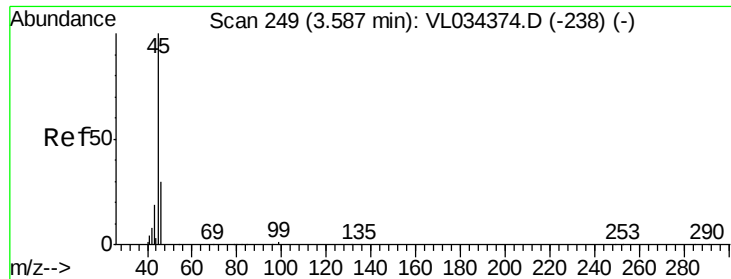
Tot Ion:101 Resp: 1760874
 Ion Ratio Lower Upper
 101 100
 103 67.8 55.4 83.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.75 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion:101 Resp: 1168225
 Ion Ratio Lower Upper
 101 100
 151 70.7 57.4 86.2





#13

Ethanol

Concen: 8.35 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

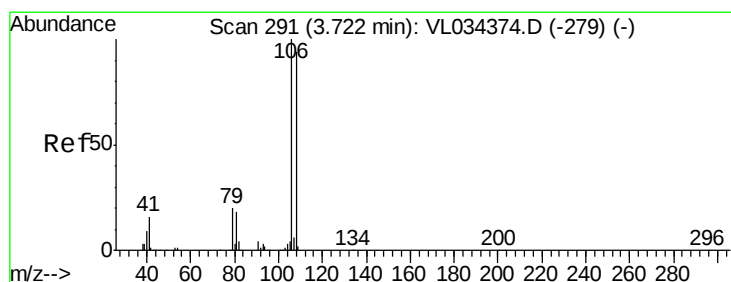
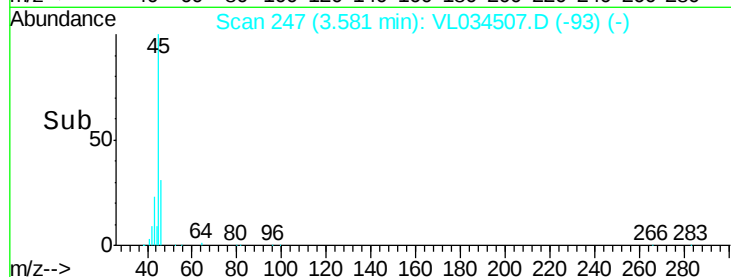
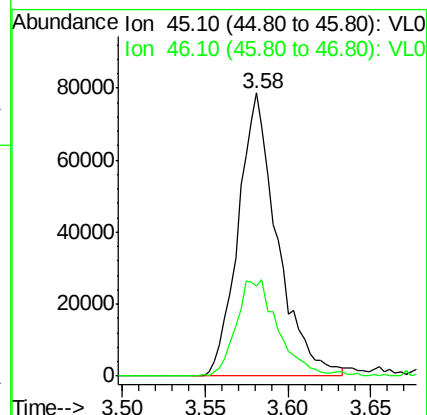
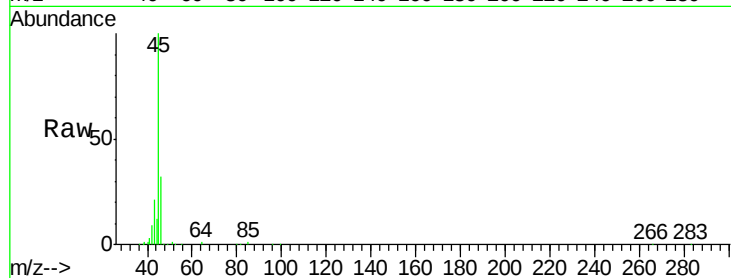
VSTDCCC010EC

Tot Ion: 45 Resp: 129126

Ion Ratio Lower Upper

45 100

46 37.0 13.8 55.4



#14

Bromoethene

Concen: 9.89 ppbv

RT: 3.72 min Scan# 289

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

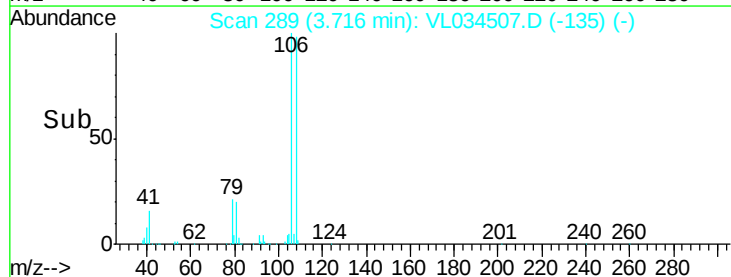
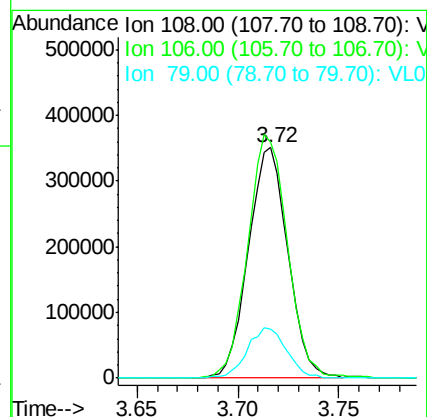
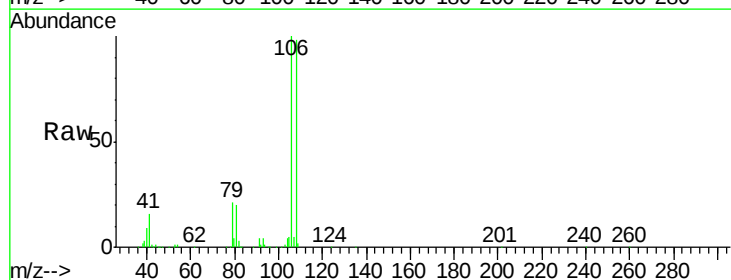
Tgt Ion: 108 Resp: 481961

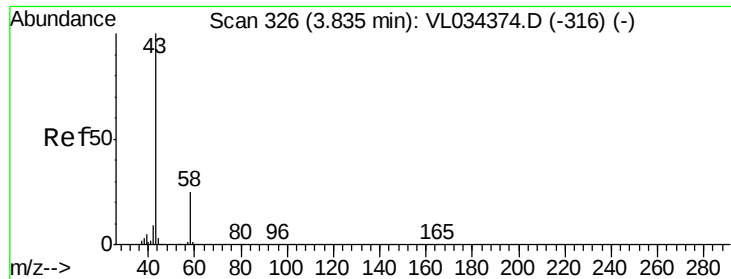
Ion Ratio Lower Upper

108 100

106 106.9 85.7 128.5

79 21.7 17.2 25.8





#15

Acetone

Concen: 10.42 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

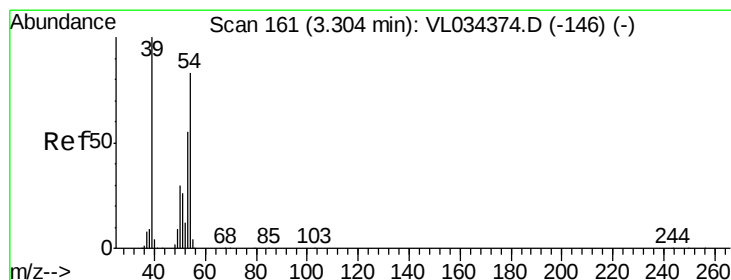
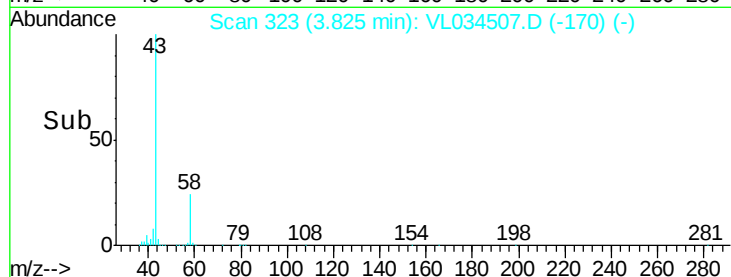
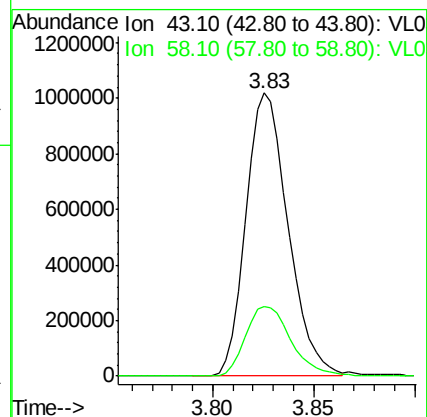
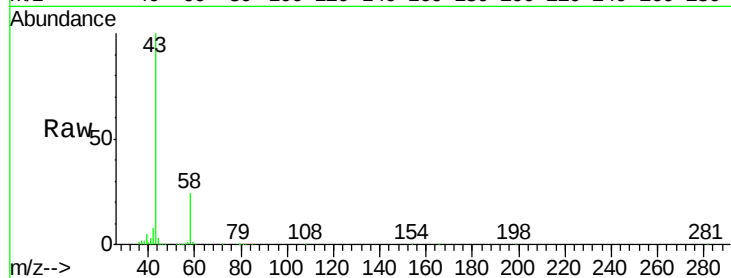
VSTDCCC010EC

Tot Ion: 43 Resp: 1495660

Ion Ratio Lower Upper

43 100

58 26.9 20.2 30.4



#16

1,3-Butadiene

Concen: 9.39 ppbv

RT: 3.29 min Scan# 158

Delta R.T. -0.01 min

Lab File: VL034507.D

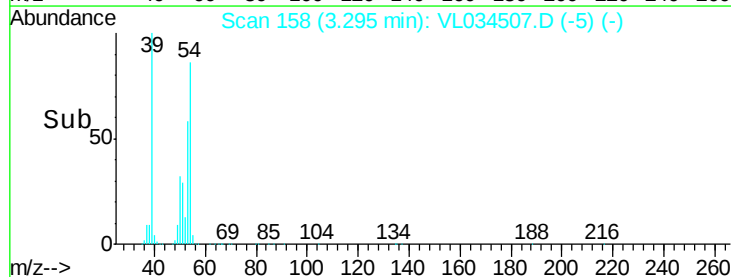
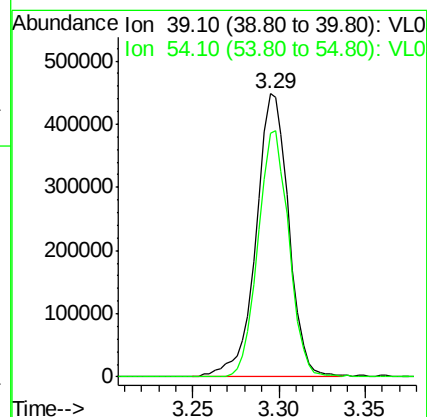
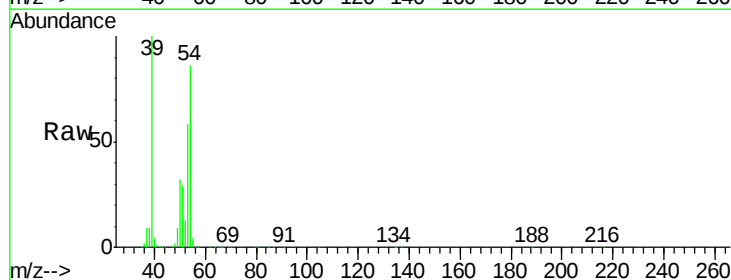
Acq: 18 Dec 2019 9:05

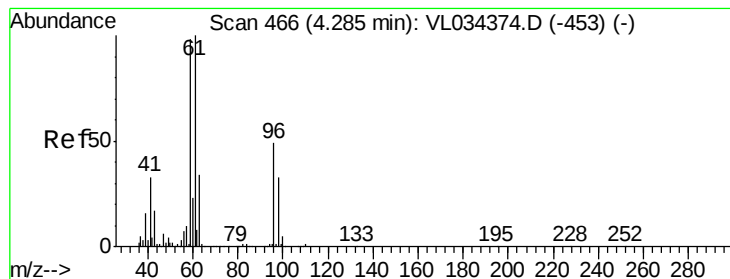
Tgt Ion: 39 Resp: 587169

Ion Ratio Lower Upper

39 100

54 82.7 64.7 97.1



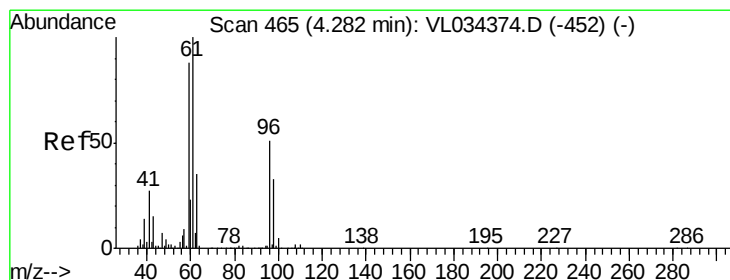
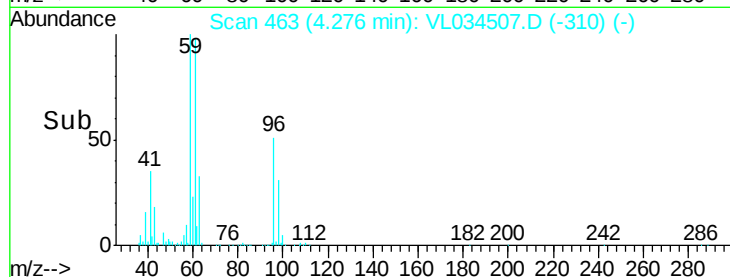
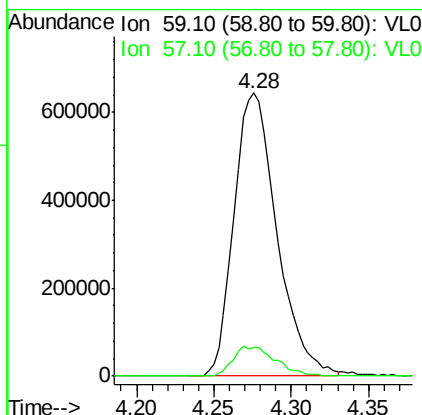
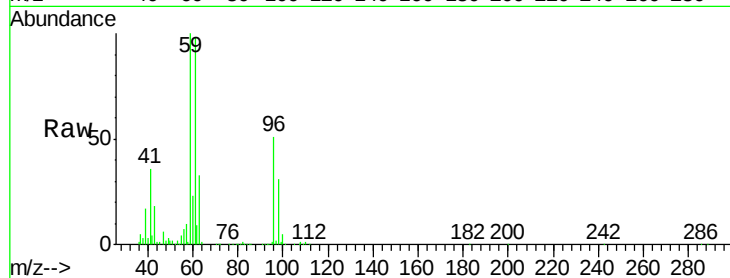


#17

tert-Butyl alcohol
 Concen: 10.29 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

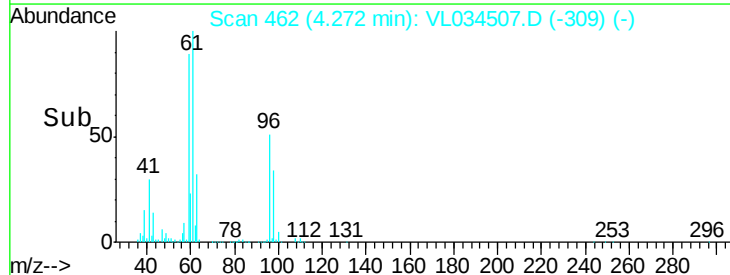
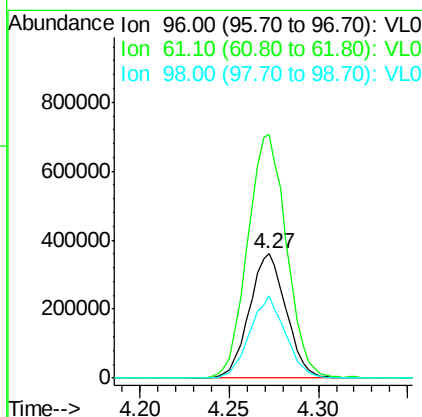
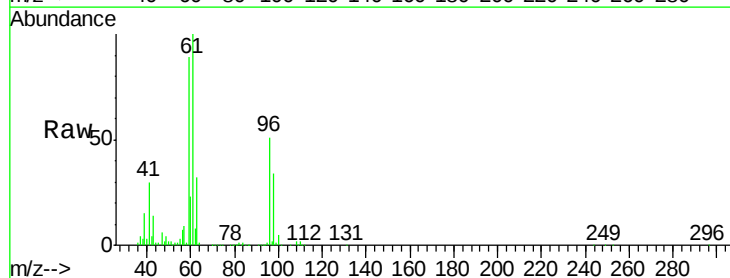
Tot Ion: 59 Resp: 1242031
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.8 13.2

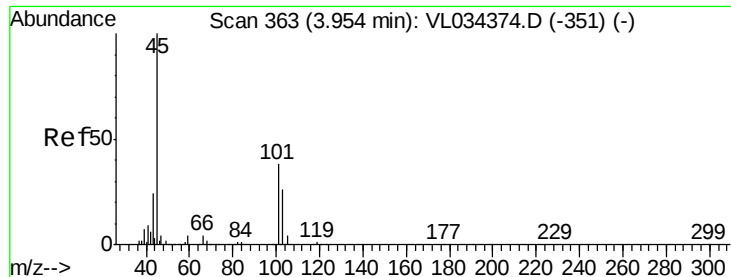


#18

1,1-Dichloroethene
 Concen: 9.94 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion: 96 Resp: 521273
 Ion Ratio Lower Upper
 96 100
 61 196.0 155.6 233.4
 98 66.2 51.6 77.4



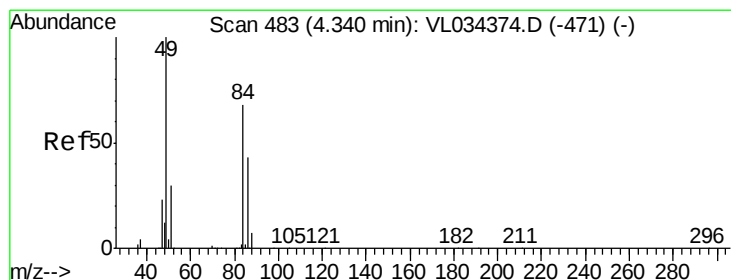
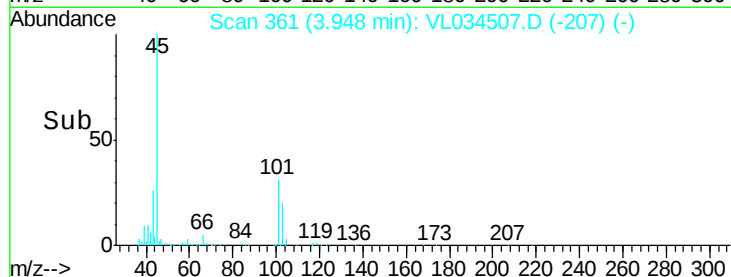
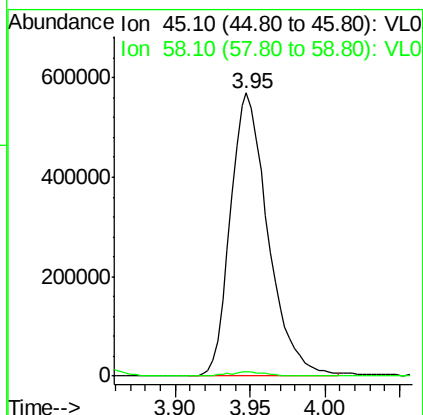
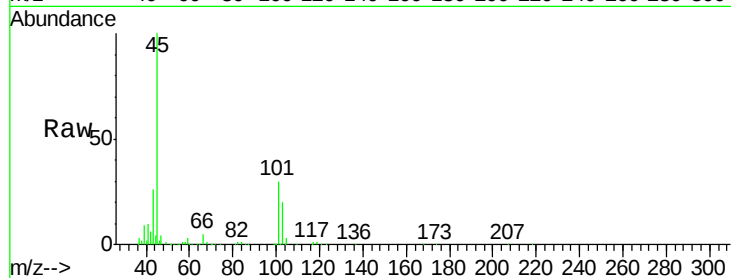


#19

Isopropyl Alcohol
 Concen: 10.84 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

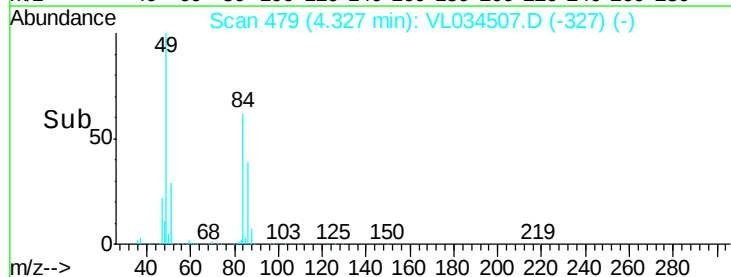
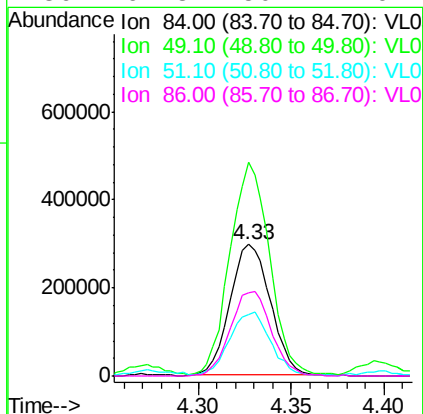
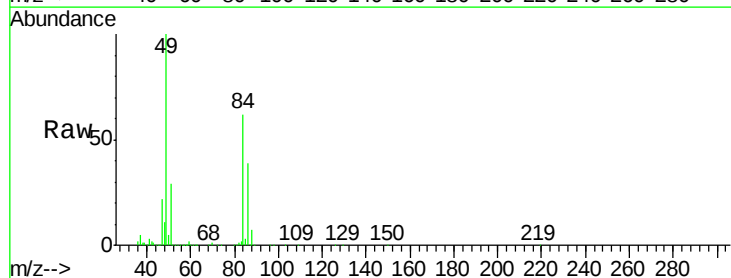
Tot Ion: 45 Resp: 997636
 Ion Ratio Lower Upper
 45 100
 58 1.8 1.3 1.9

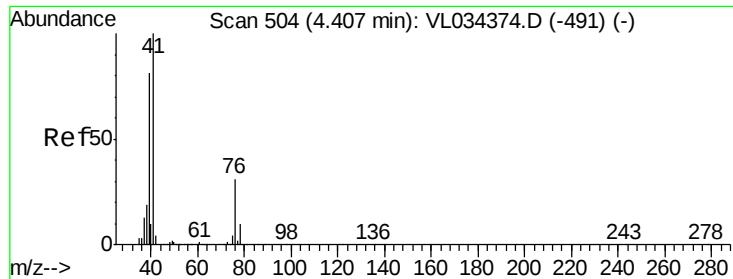


#20

Methylene Chloride
 Concen: 8.89 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion: 84 Resp: 452628
 Ion Ratio Lower Upper
 84 100
 49 161.8 116.8 175.2
 51 46.0 35.6 53.4
 86 62.8 50.7 76.1





#21

Allvl Chloride

Concen: 10.38 ppbv

RT: 4.39 min Scan# 500

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

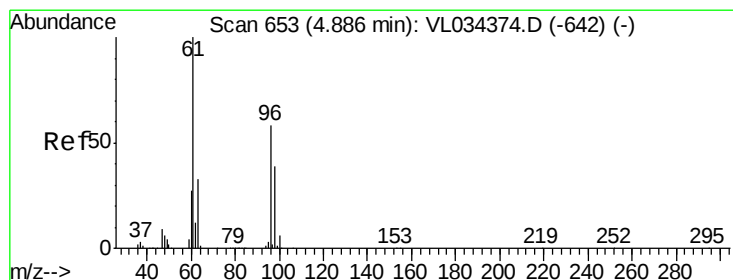
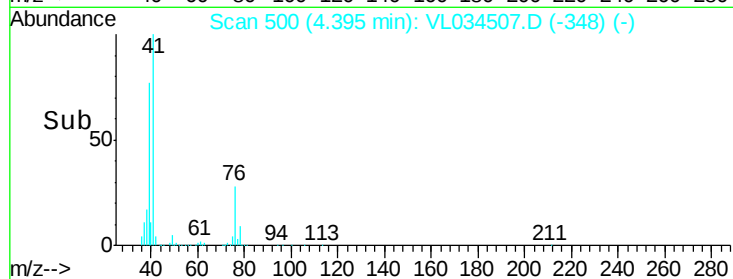
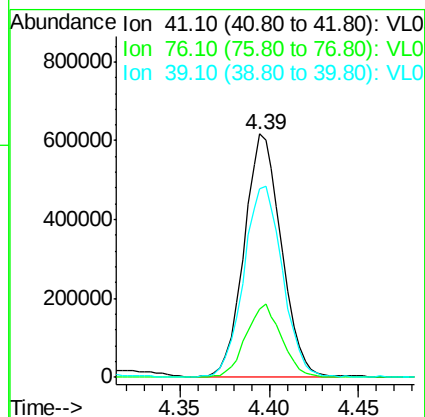
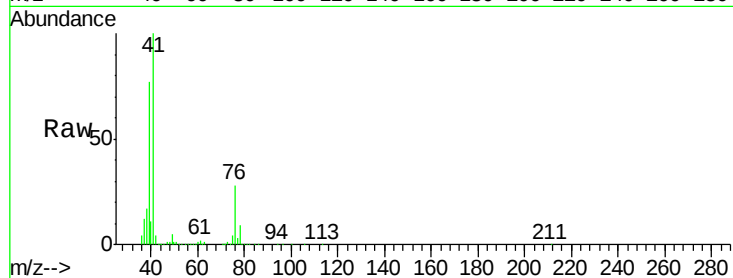
Tot Ion: 41 Resp: 893135

Ion Ratio Lower Upper

41 100

76 29.3 24.2 36.2

39 82.8 66.9 100.3



#22

trans-1,2-Dichloroethene

Concen: 10.12 ppbv

RT: 4.88 min Scan# 650

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

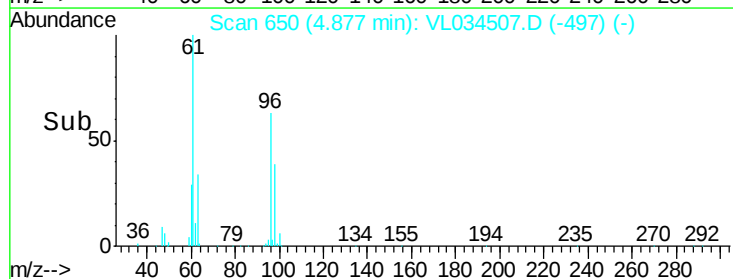
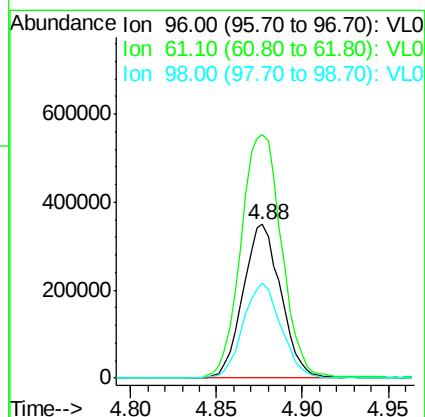
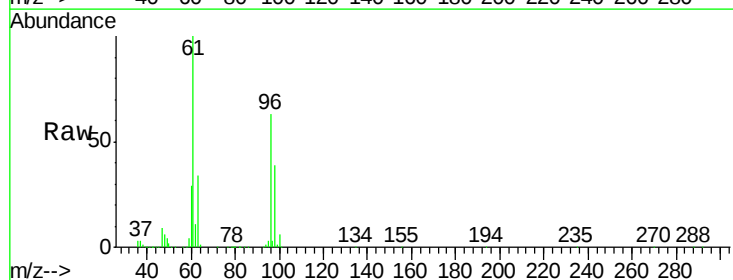
Tgt Ion: 96 Resp: 534768

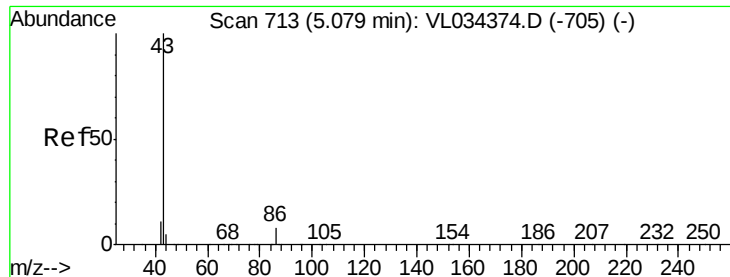
Ion Ratio Lower Upper

96 100

61 158.6 137.9 206.9

98 61.7 53.5 80.3





#23

Vinyl Acetate

Concen: 10.27 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1926749

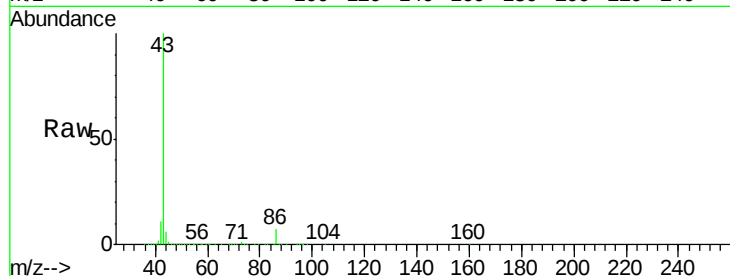
Ion Ratio Lower Upper

43 100

86 7.4 5.8 8.6

42 10.8 8.9 13.3

44 5.5 4.0 6.0

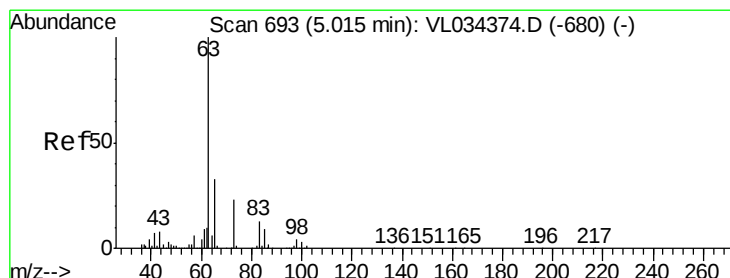
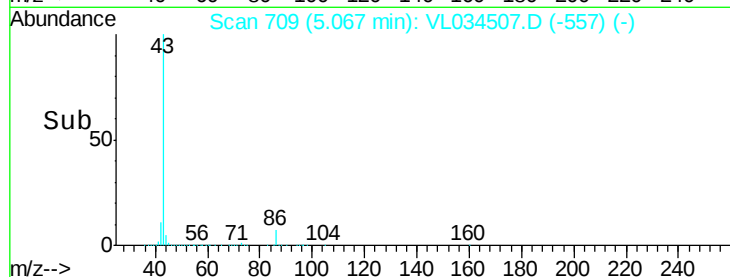
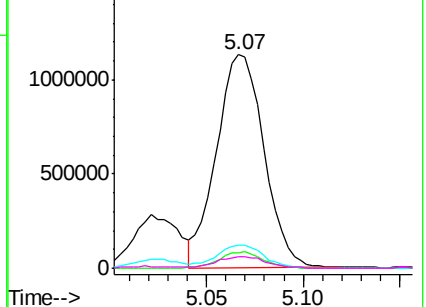


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.14 ppbv

RT: 5.00 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

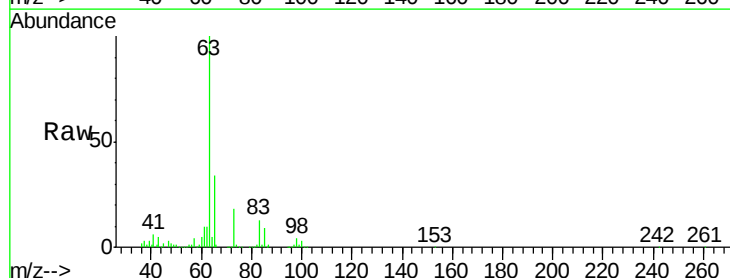
Tgt Ion: 63 Resp: 1317084

Ion Ratio Lower Upper

63 100

98 4.1 1.9 5.7

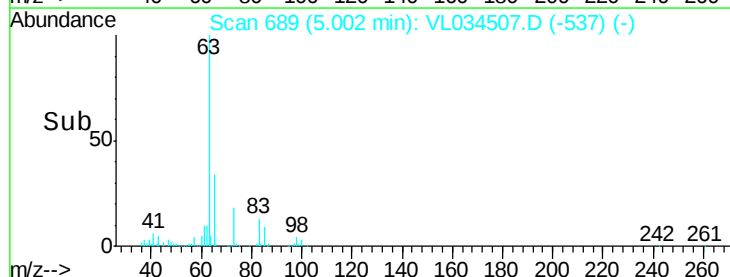
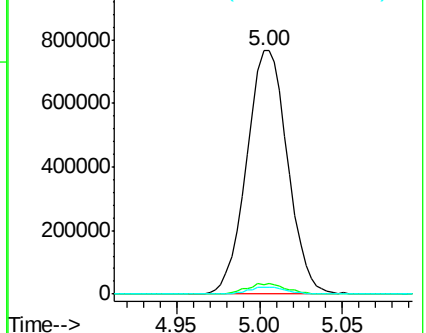
100 2.6 1.4 4.0

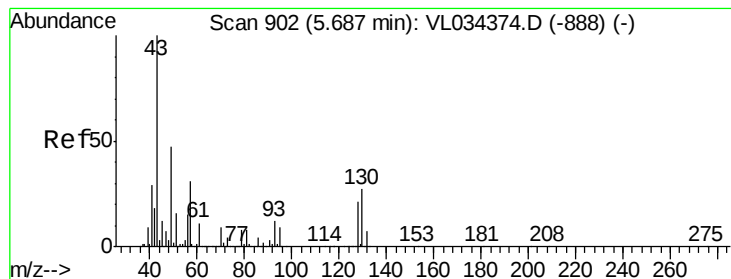


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.04 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2315219

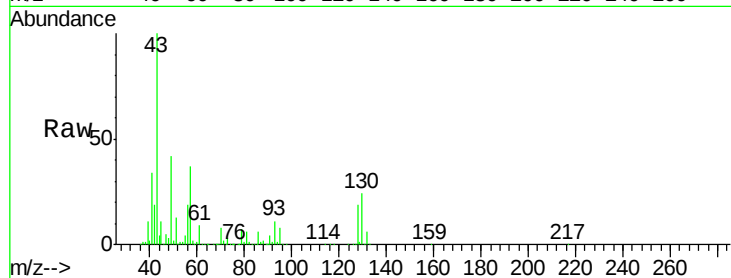
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.4
61	9.2	7.5	11.3
70	7.2	5.7	8.5

43 100

45 10.2 8.2 12.4

61 9.2 7.5 11.3

70 7.2 5.7 8.5

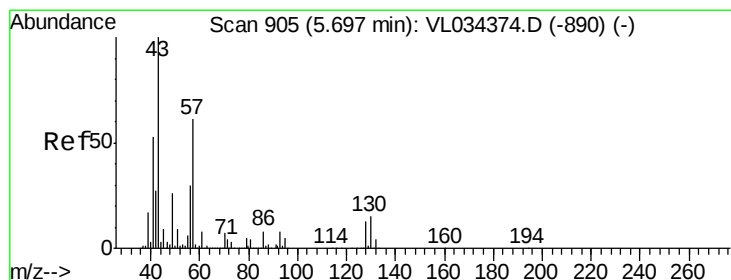
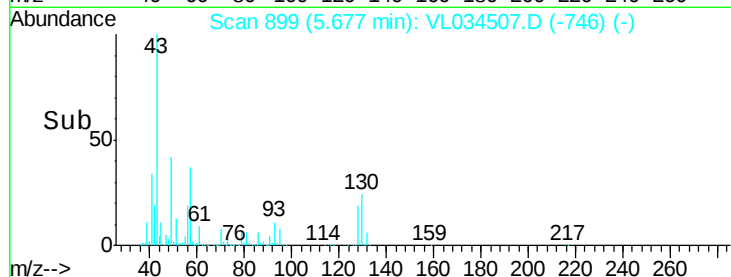
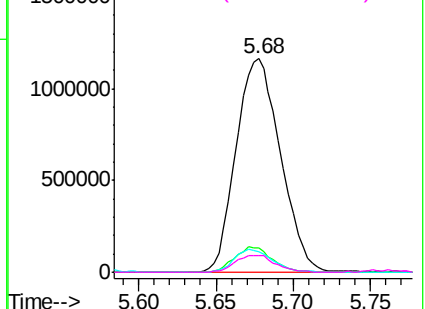


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.95 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion: 57 Resp: 985536

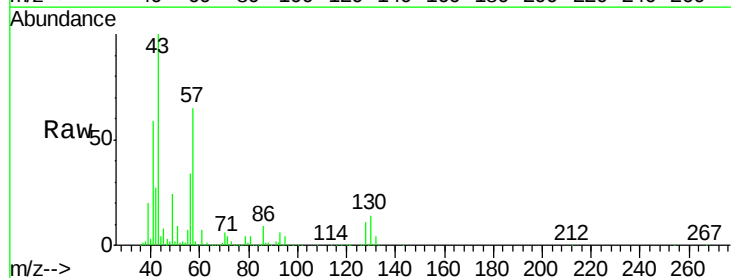
Ion	Ratio	Lower	Upper
57	100		
41	93.6	75.0	112.4
43	236.0	186.6	279.8
56	53.3	41.5	62.3

57 100

41 93.6 75.0 112.4

43 236.0 186.6 279.8

56 53.3 41.5 62.3

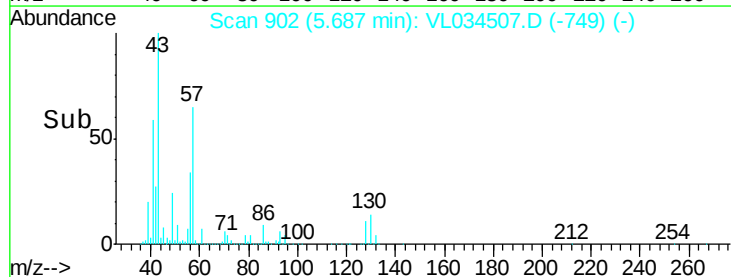
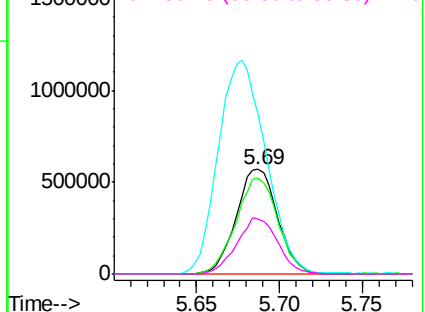


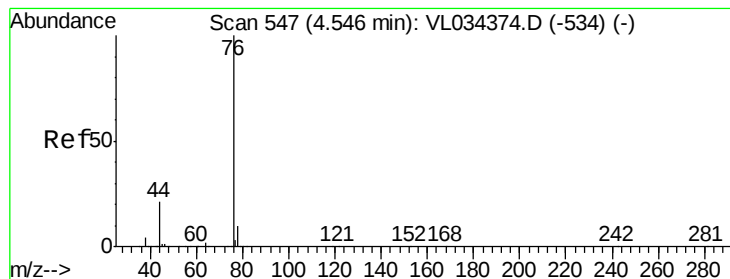
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 11.32 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

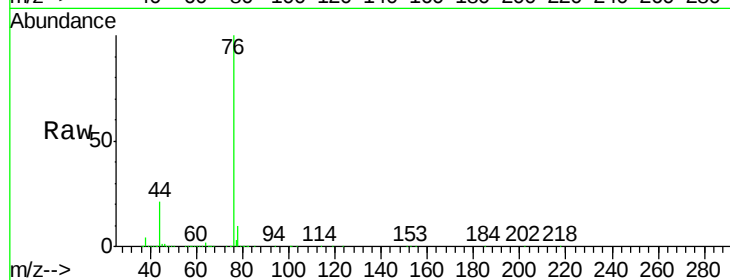
Tot Ion: 76 Resp: 1357336

Ion Ratio Lower Upper

76 100

44 20.4 17.0 25.4

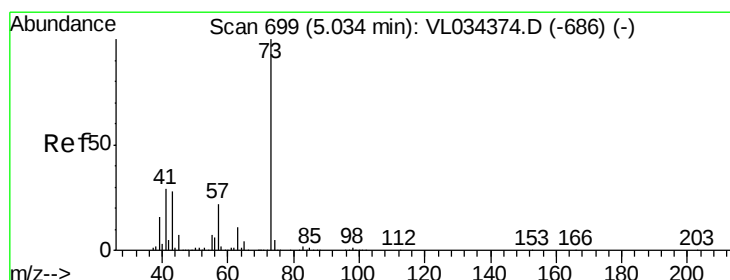
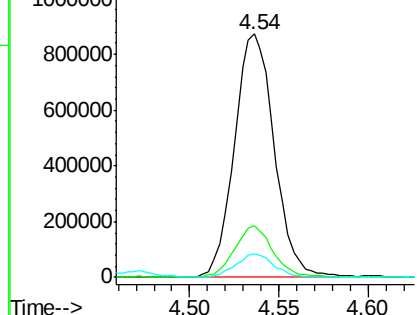
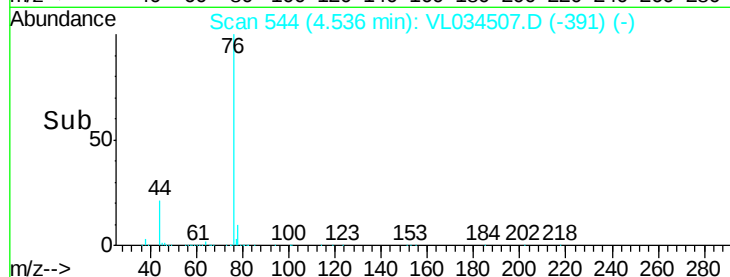
78 9.3 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.38 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.01 min

Lab File: VL034507.D

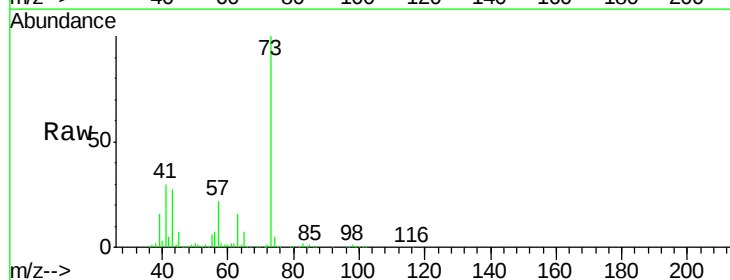
Acq: 18 Dec 2019 9:05

Tgt Ion: 73 Resp: 1712414

Ion Ratio Lower Upper

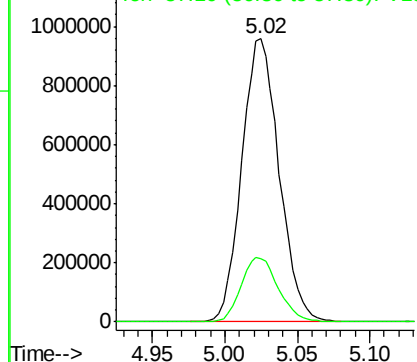
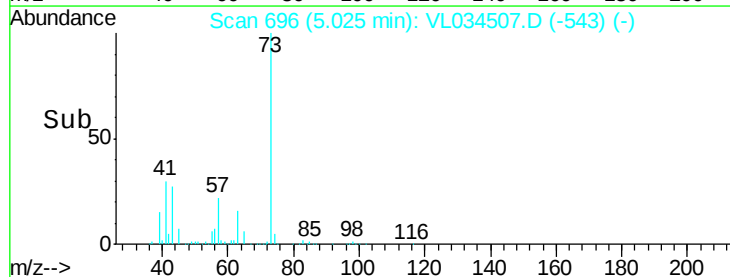
73 100

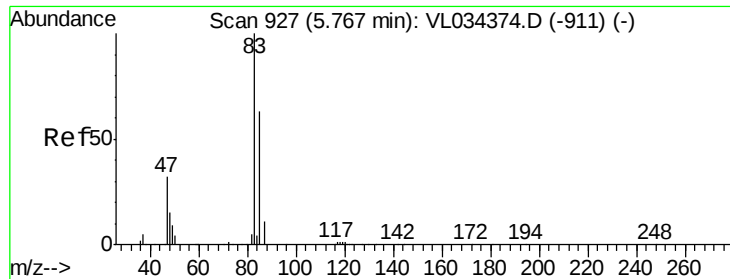
57 22.8 18.4 27.6



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.14 ppbv

RT: 5.75 min Scan# 923

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

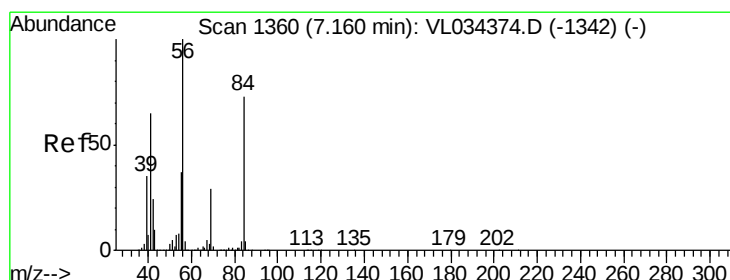
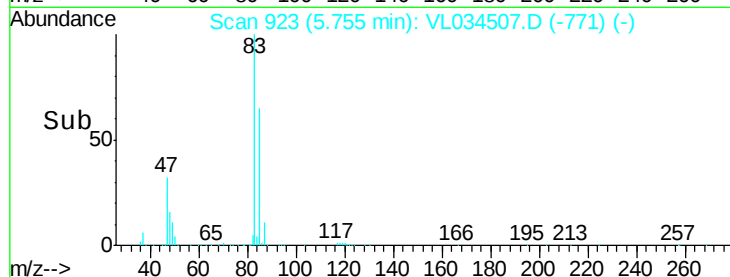
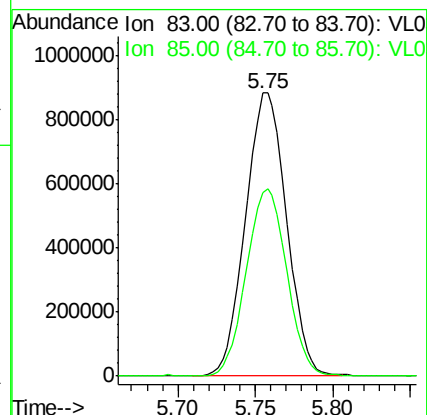
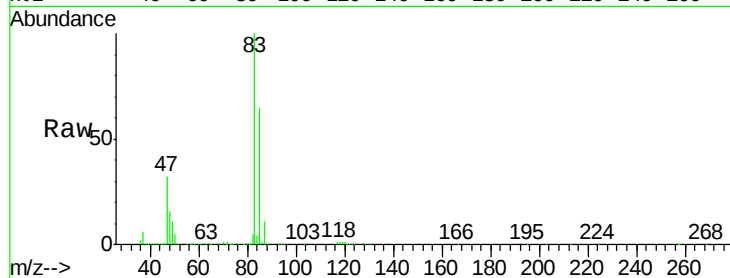
VSTDCCC010EC

Tot Ion: 83 Resp: 1629712

Ion Ratio Lower Upper

83 100

85 64.9 50.4 75.6



#30

Cyclohexane

Concen: 9.36 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

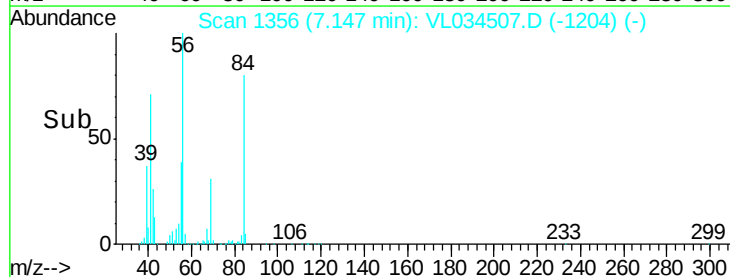
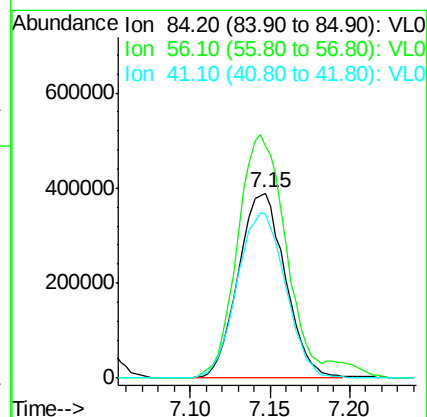
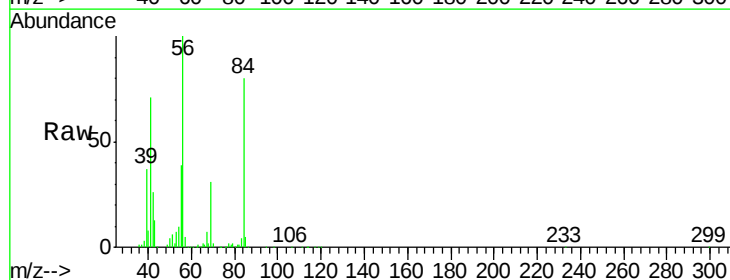
Tgt Ion: 84 Resp: 778847

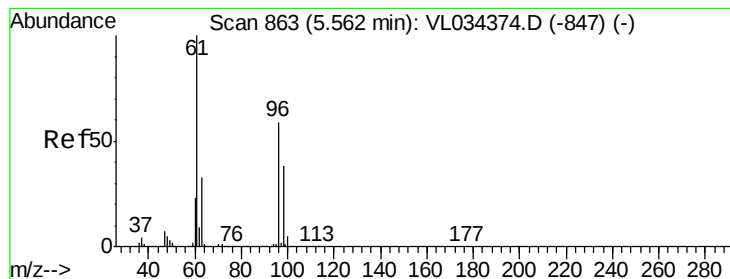
Ion Ratio Lower Upper

84 100

56 141.1 112.6 169.0

41 92.4 73.4 110.2





#31

cis-1,2-Dichloroethene

Concen: 9.30 ppbv

RT: 5.55 min Scan# 860

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

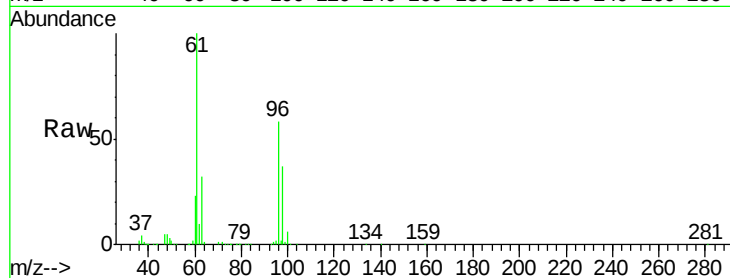
Tot Ion: 61 Resp: 1057757

Ion Ratio Lower Upper

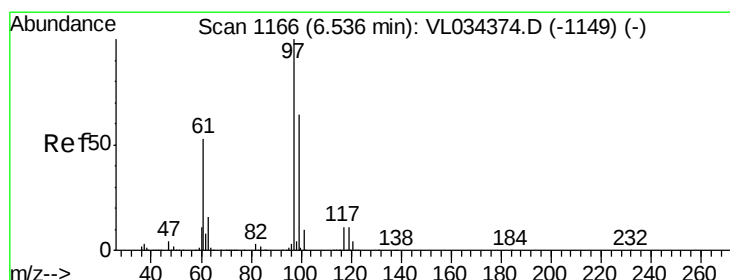
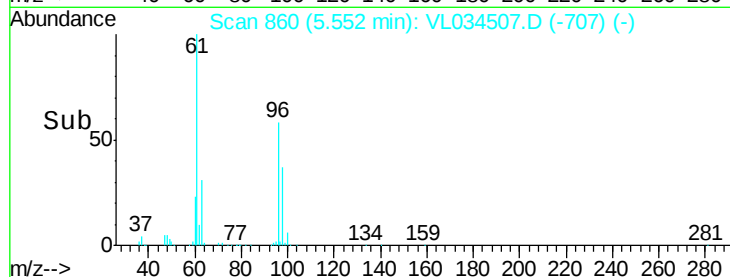
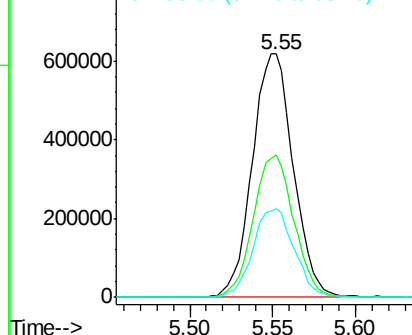
61 100

96 58.2 47.4 71.2

98 36.5 30.6 45.8



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: 10.17 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

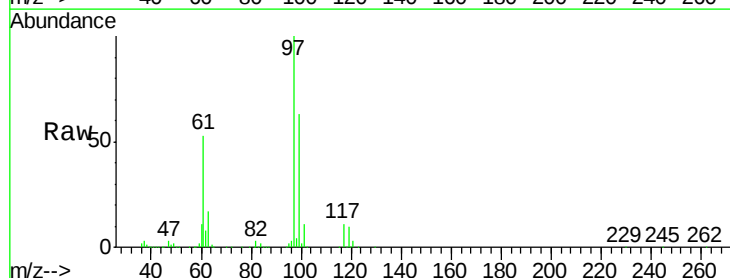
Tgt Ion: 97 Resp: 1698989

Ion Ratio Lower Upper

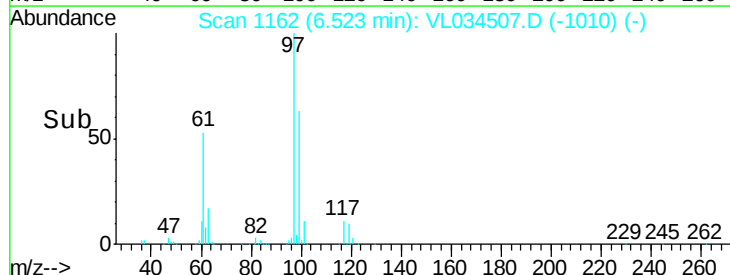
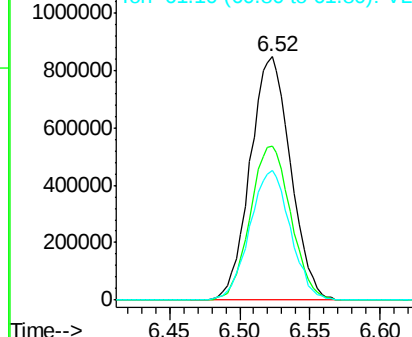
97 100

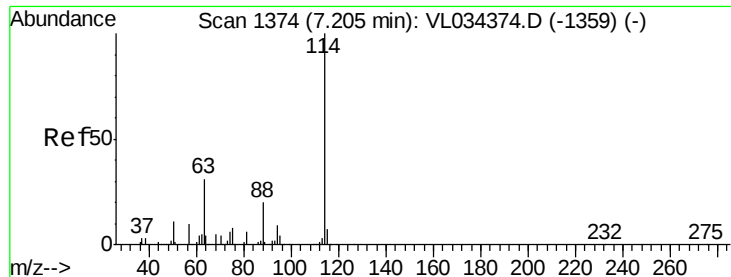
99 63.8 52.3 78.5

61 53.6 43.7 65.5



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



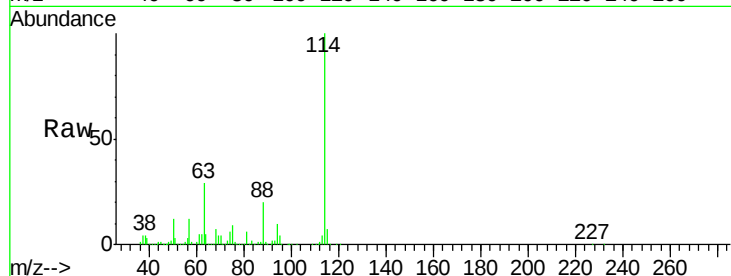


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

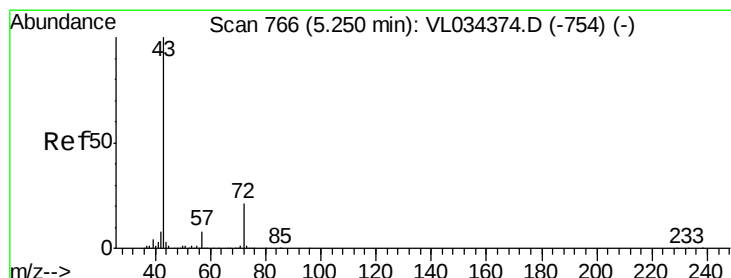
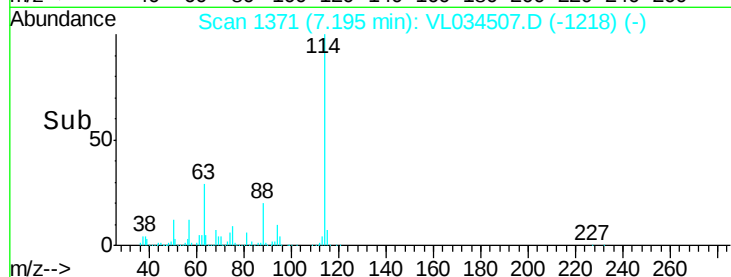
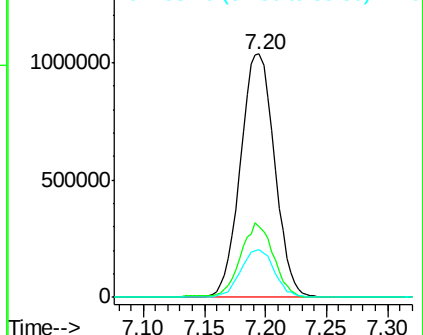
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 1998707

Ion	Ratio	Lower	Upper
114	100		
63	29.7	24.2	36.4
88	19.3	15.9	23.9



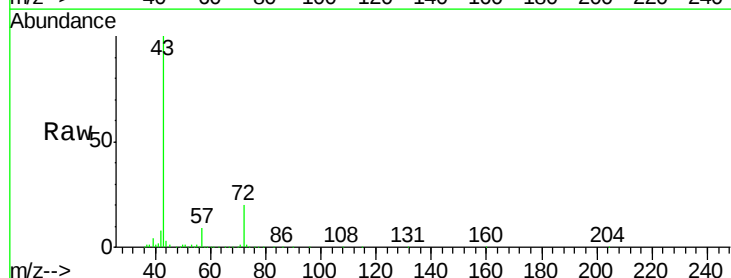
Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



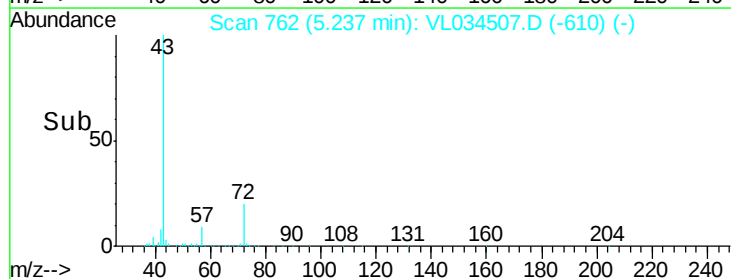
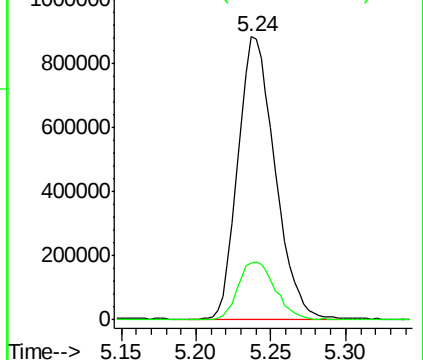
#34
 2-Butanone
 Concen: 9.29 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

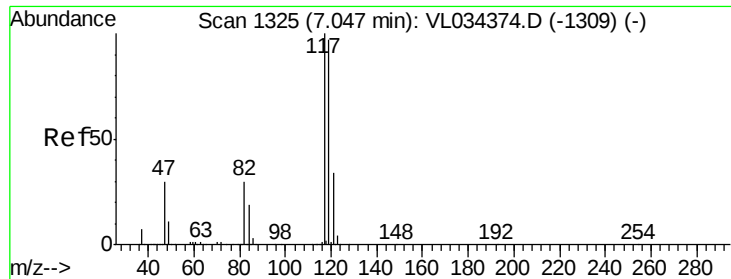
Tgt Ion: 43 Resp: 1528746

Ion	Ratio	Lower	Upper
43	100		
72	20.7	17.0	25.6



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





#35

Carbon Tetrachloride

Concen: 10.59 ppbv

RT: 7.03 min Scan# 1320

Delta R.T. -0.02 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

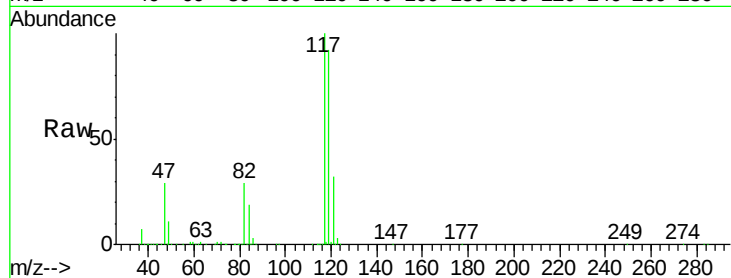
Tot Ion:117 Resp: 1819788

Ion Ratio Lower Upper

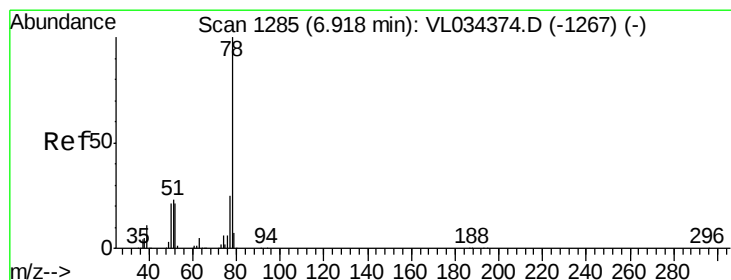
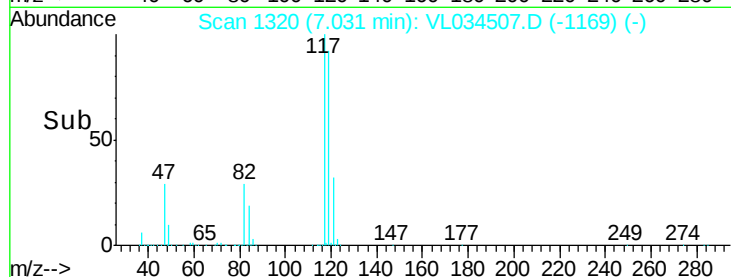
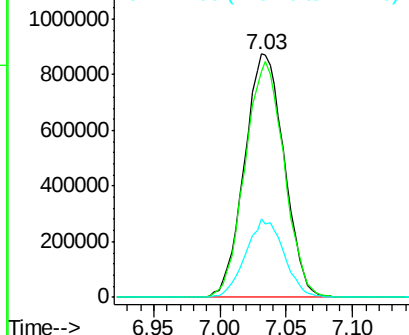
117 100

119 92.5 77.3 115.9

121 32.1 27.4 41.2



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.35 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

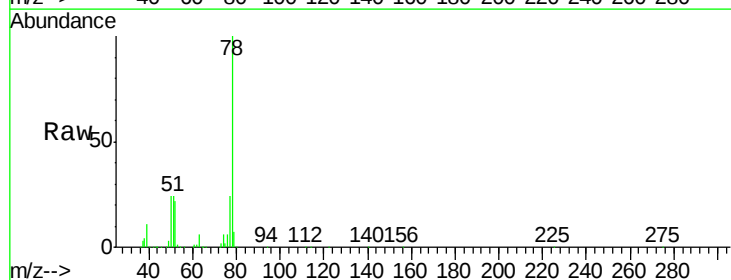
Tgt Ion: 78 Resp: 1868573

Ion Ratio Lower Upper

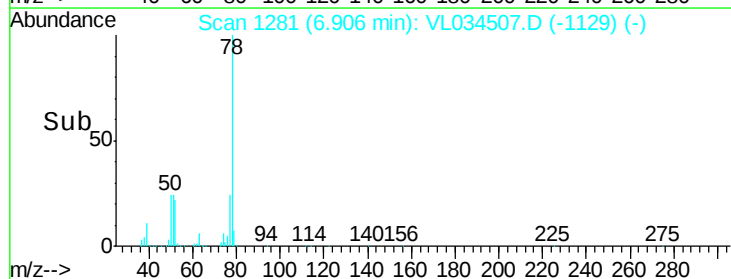
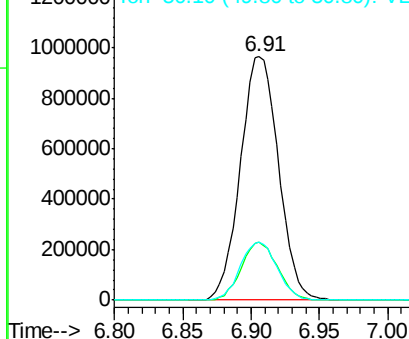
78 100

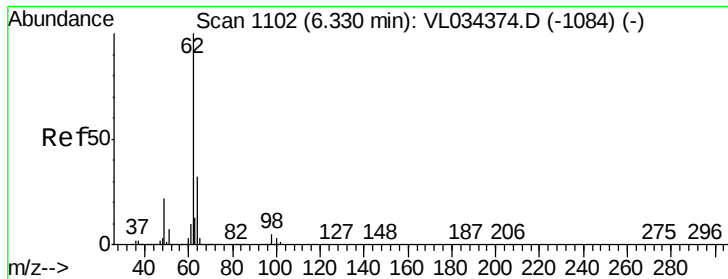
77 23.6 20.2 30.4

50 23.6 17.1 25.7



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: 9.60 ppbv

RT: 6.32 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

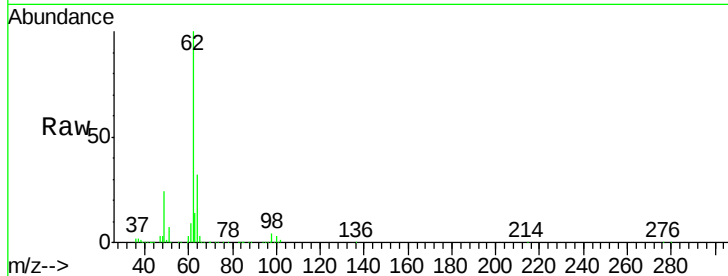
VSTDCCC010EC

Tot Ion: 62 Resp: 1424524

Ion Ratio Lower Upper

62 100

98 4.7 3.8 5.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

800000

600000

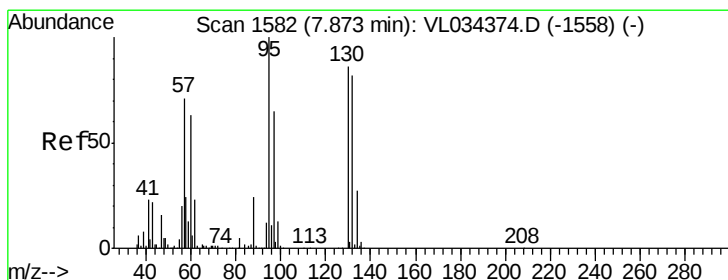
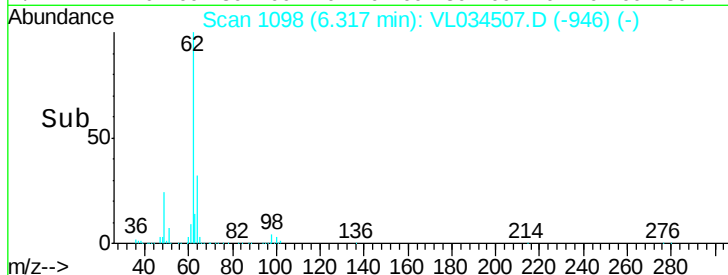
400000

200000

0

6.25 6.30 6.35

Time-->



#38

Trichloroethene

Concen: 9.38 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. -0.02 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion: 130 Resp: 768683

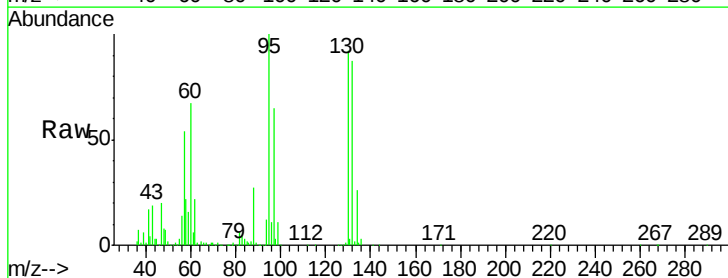
Ion Ratio Lower Upper

130 100

95 108.9 93.4 140.0

132 95.3 76.4 114.6

97 70.1 61.1 91.7



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

600000

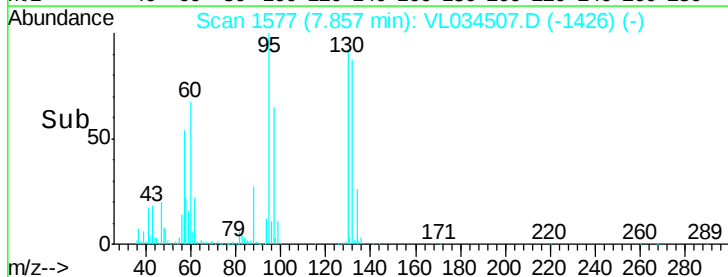
400000

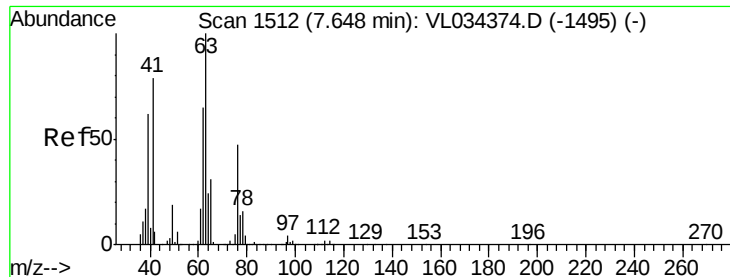
200000

0

7.80 7.85 7.90

Time-->





#39

1,2-Dichloropropane

Concen: 9.86 ppbv

RT: 7.63 min Scan# 1507

Delta R.T. -0.02 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

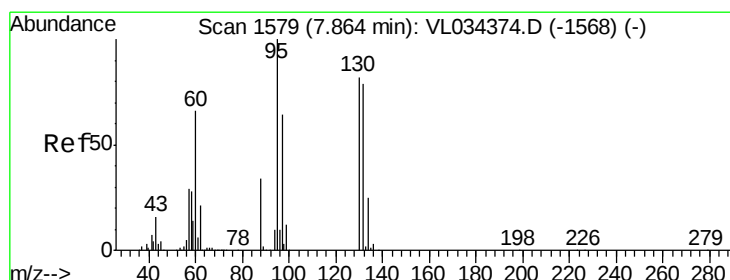
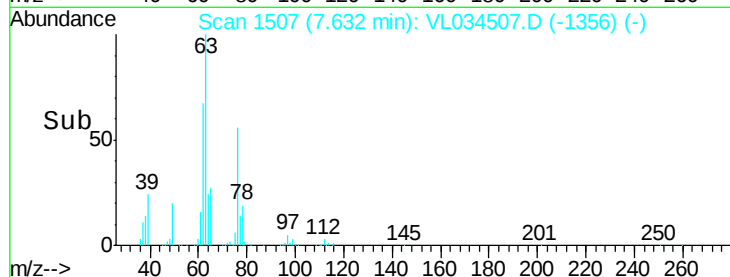
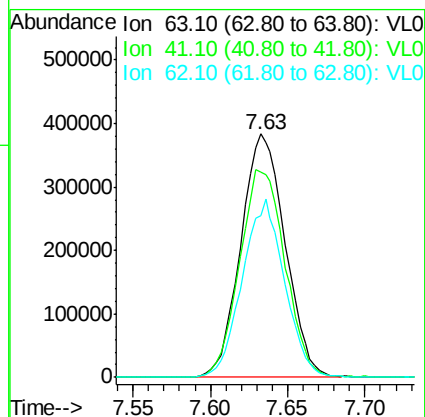
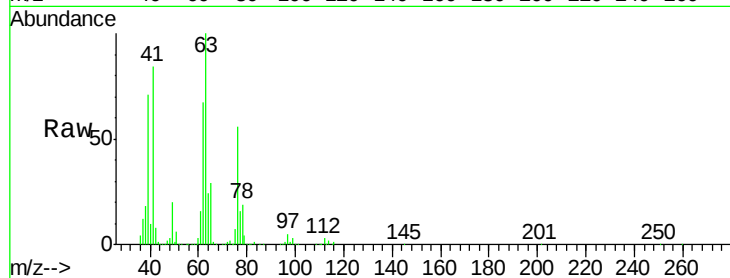
Tot Ion: 63 Resp: 758990

Ion Ratio Lower Upper

63 100

41 84.1 63.1 94.7

62 66.6 52.3 78.5



#40

1,4-Dioxane

Concen: 4.60 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.02 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion: 88 Resp: 154839

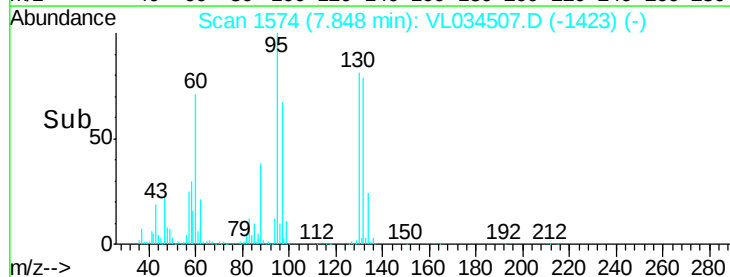
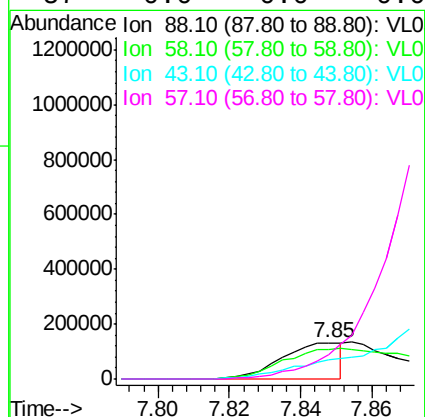
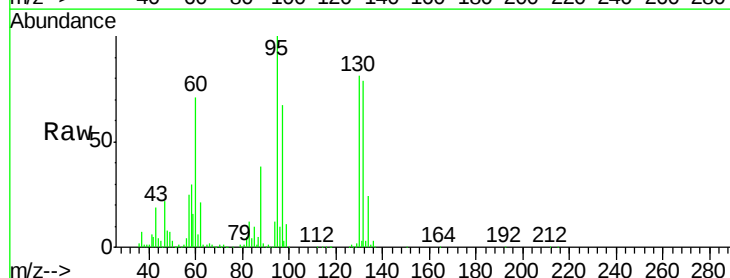
Ion Ratio Lower Upper

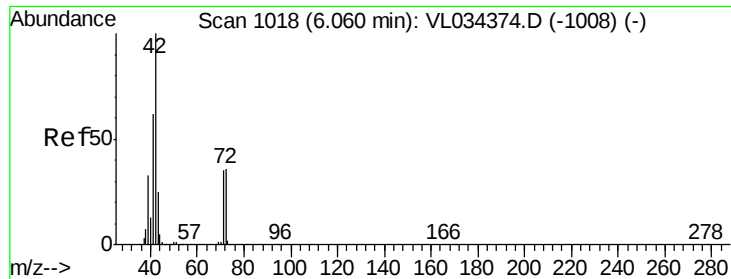
88 100

58 267.0 109.5 164.3#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

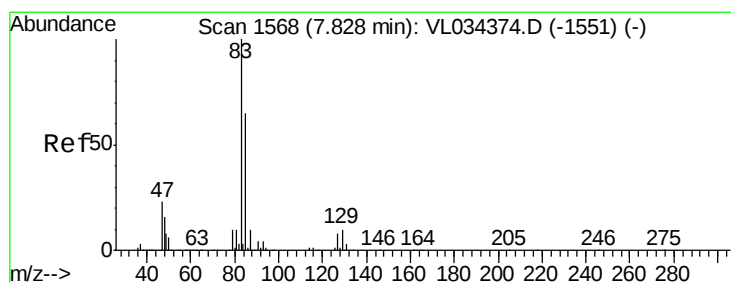
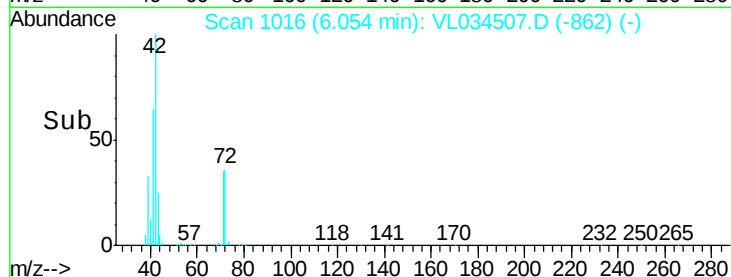
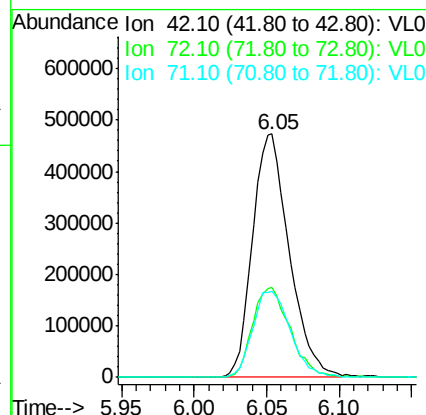
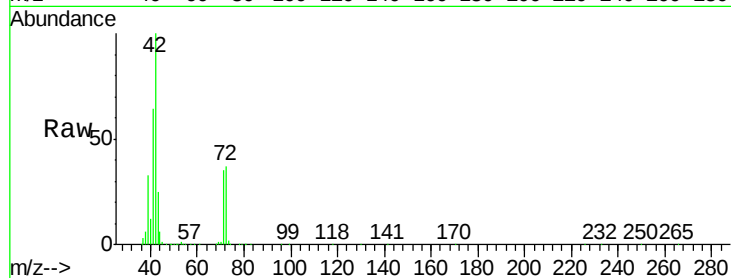




#41
Tetrahydrofuran
Concen: 9.05 ppbv
RT: 6.05 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

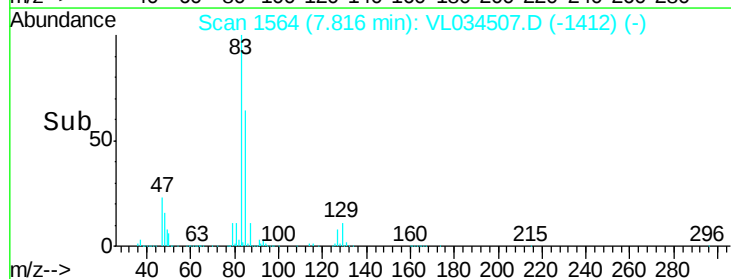
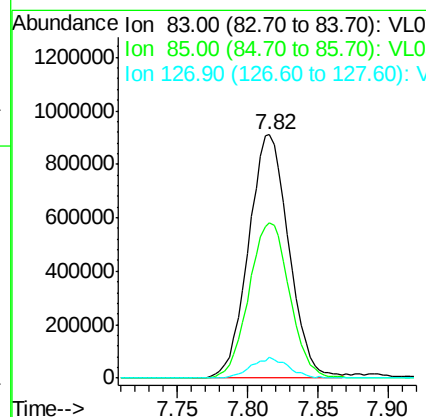
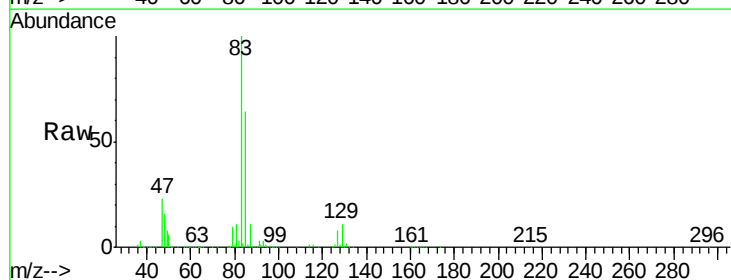
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

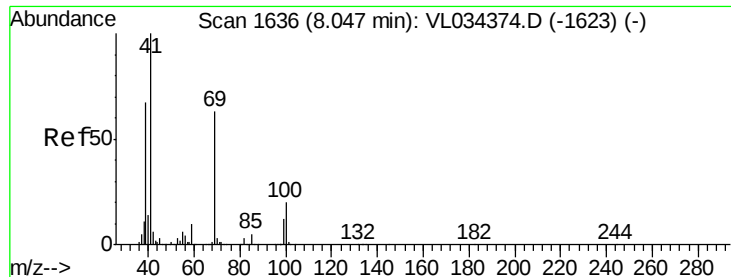
Tot Ion: 42 Resp: 835140
Ion Ratio Lower Upper
42 100
72 37.9 30.2 45.4
71 36.4 29.4 44.2



#42
Bromodichloromethane
Concen: 9.82 ppbv
RT: 7.82 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion: 83 Resp: 1822833
Ion Ratio Lower Upper
83 100
85 64.0 52.3 78.5
127 8.4 6.1 9.1

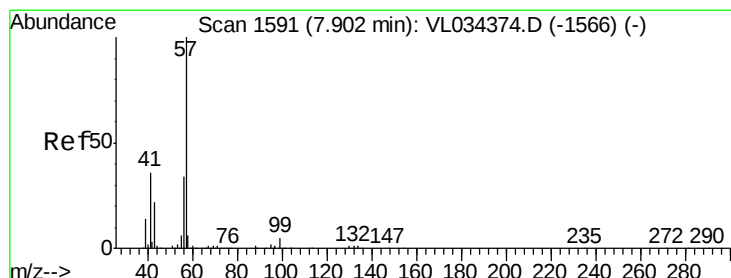
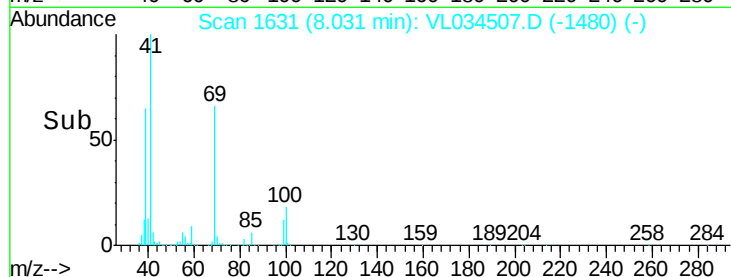
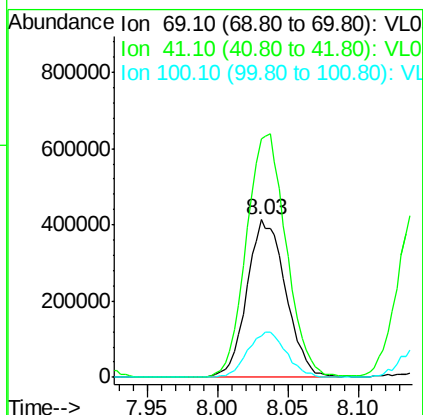
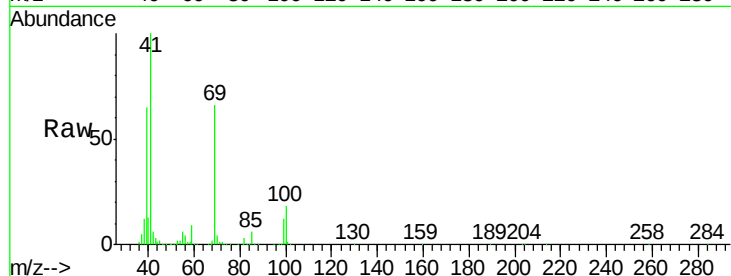




#43
Methvl Methacrilate
Concen: 9.61 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. -0.02 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

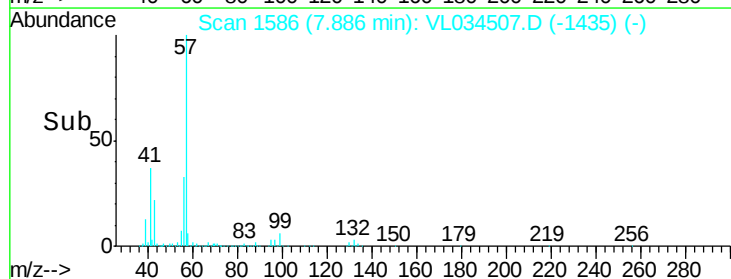
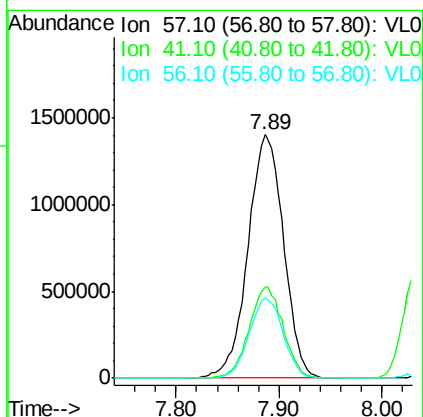
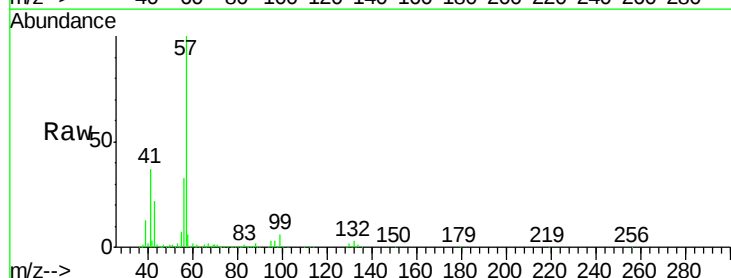
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

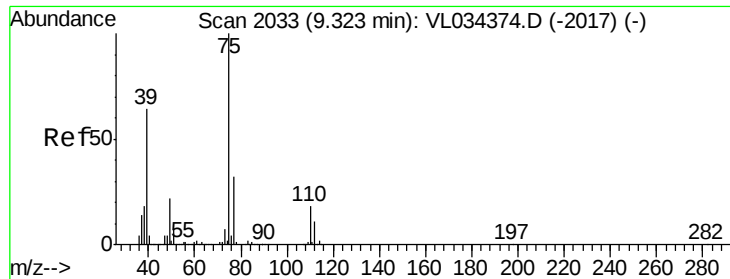
Tot Ion: 69 Resp: 796683
Ion Ratio Lower Upper
69 100
41 158.0 127.4 191.2
100 28.6 24.2 36.4



#44
2,2,4-Trimethylpentane
Concen: 9.19 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. -0.02 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion: 57 Resp: 3354020
Ion Ratio Lower Upper
57 100
41 35.8 28.6 42.8
56 31.5 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 10.55 ppbv

RT: 9.31 min Scan# 2029

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

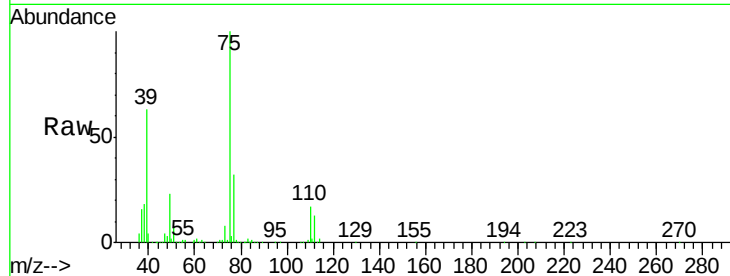
VSTDCCC010EC

Tot Ion: 75 Resp: 1120939

Ion Ratio Lower Upper

75 100

77 31.6 25.4 38.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.31

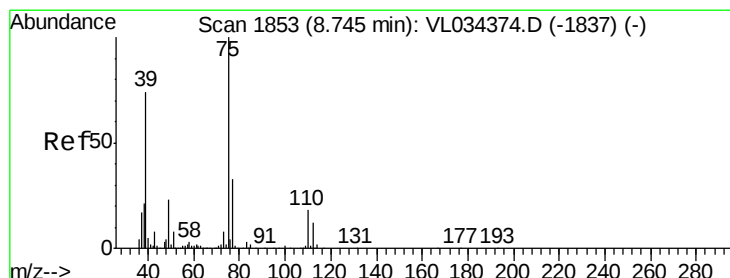
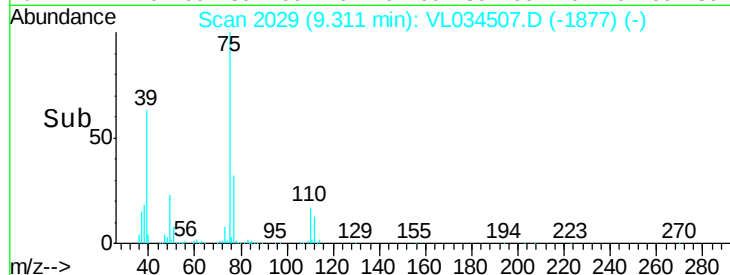
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.28 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

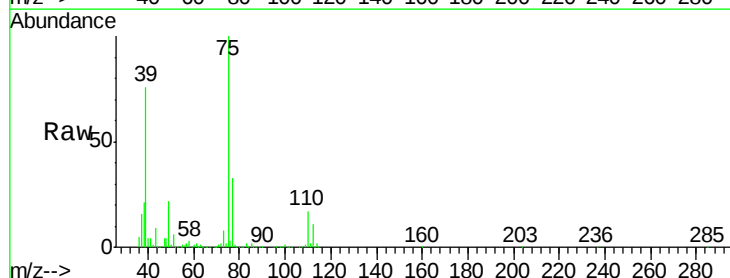
Tgt Ion: 75 Resp: 1227474

Ion Ratio Lower Upper

75 100

39 76.2 59.0 88.6

77 32.6 26.4 39.6



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

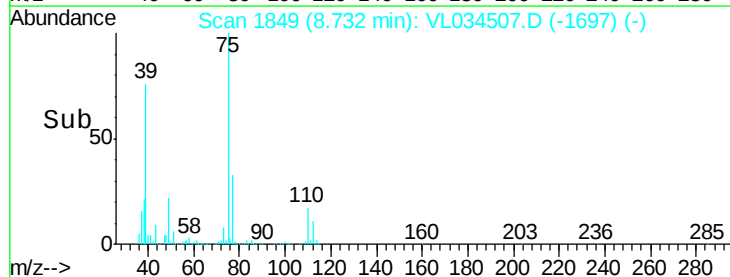
600000

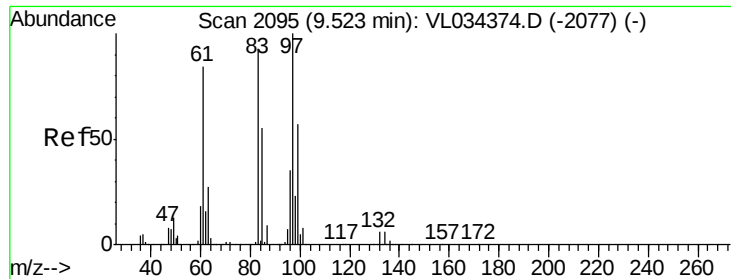
400000

200000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 9.22 ppbv

RT: 9.51 min Scan# 2090

Delta R.T. -0.02 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 789550

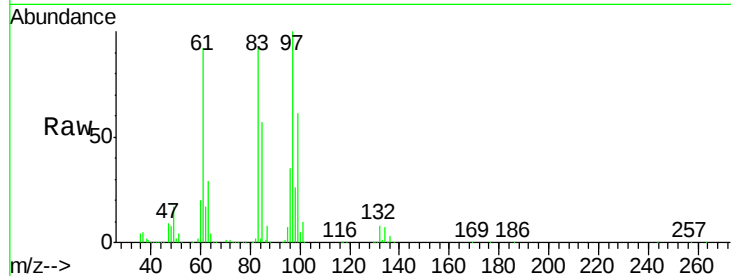
Ion Ratio Lower Upper

97 100

83 92.1 74.6 112.0

85 57.4 43.8 65.8

99 60.6 45.6 68.4

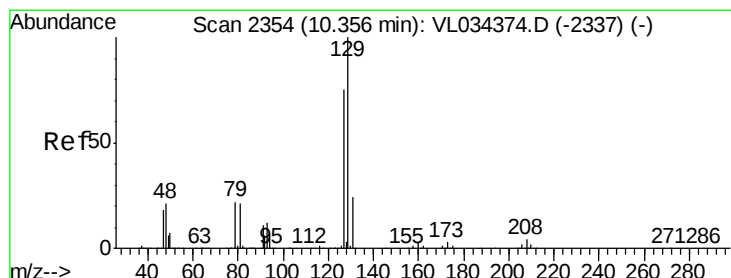
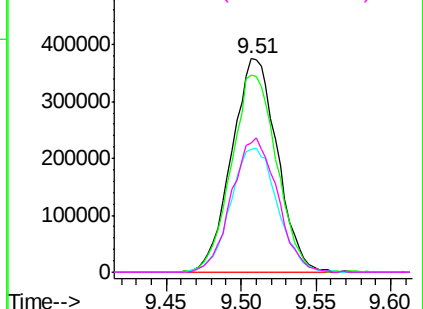
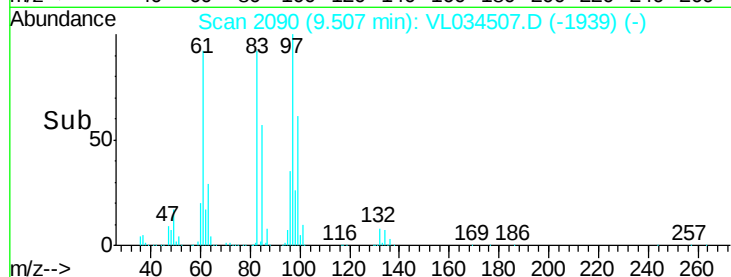


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.23 ppbv

RT: 10.34 min Scan# 2349

Delta R.T. -0.02 min

Lab File: VL034507.D

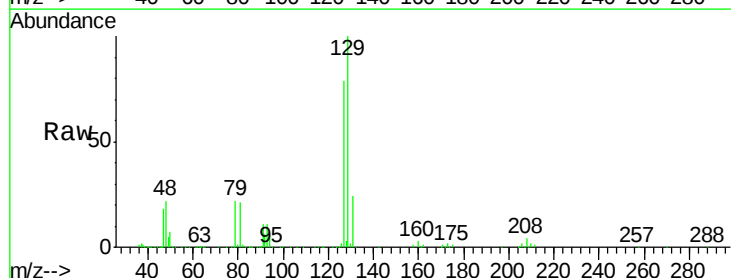
Acq: 18 Dec 2019 9:05

Tgt Ion: 129 Resp: 1503736

Ion Ratio Lower Upper

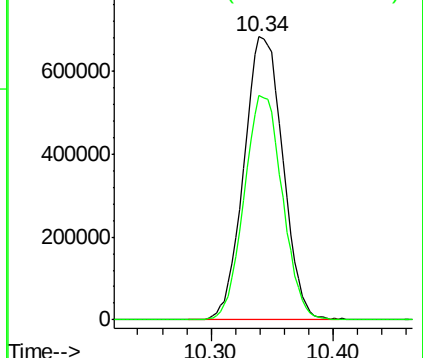
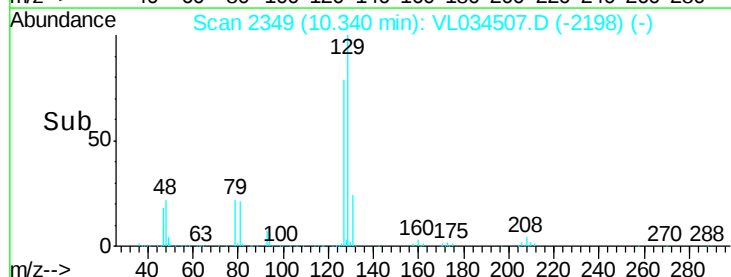
129 100

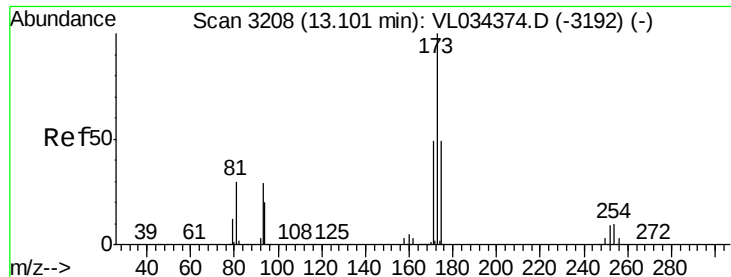
127 78.0 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.07 ppbv

RT: 13.09 min Scan# 3205

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

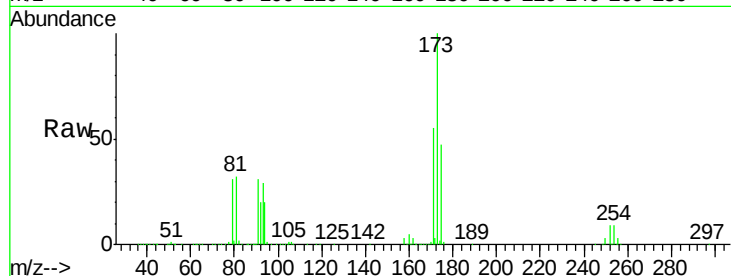
Tot Ion:173 Resp: 1320998

Ion Ratio Lower Upper

173 100

175 49.8 39.3 58.9

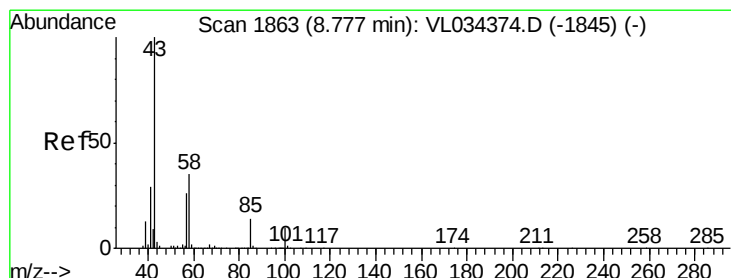
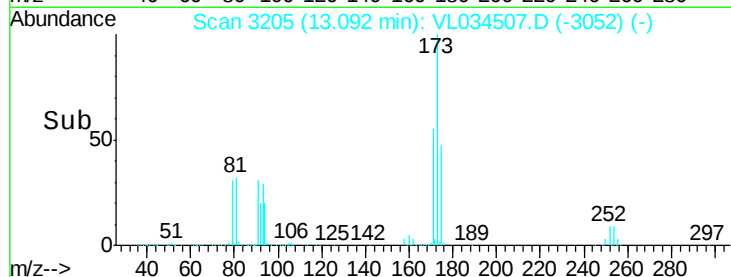
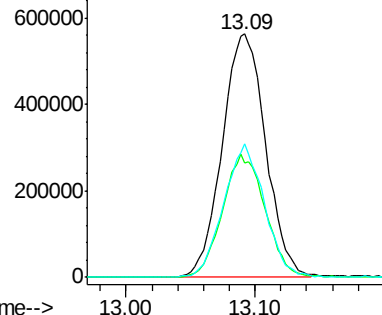
171 52.1 42.4 63.6



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: 9.48 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. -0.01 min

Lab File: VL034507.D

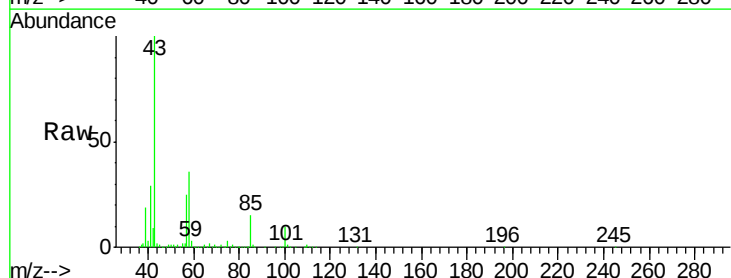
Acq: 18 Dec 2019 9:05

Tgt Ion: 43 Resp: 2256054

Ion Ratio Lower Upper

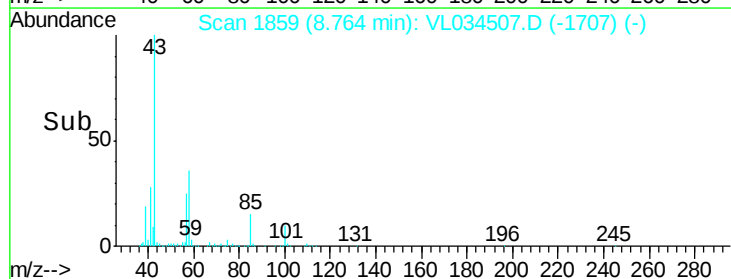
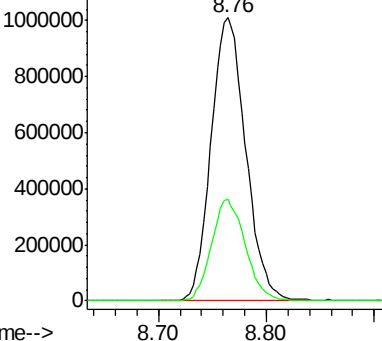
43 100

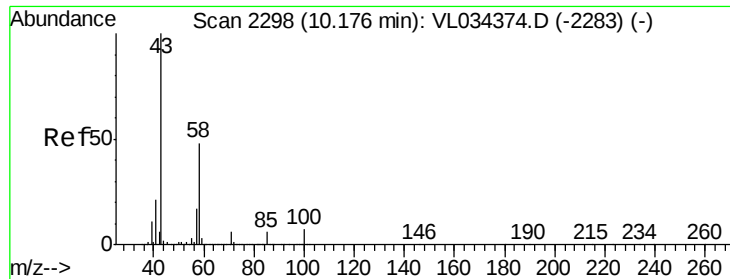
58 35.2 27.9 41.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

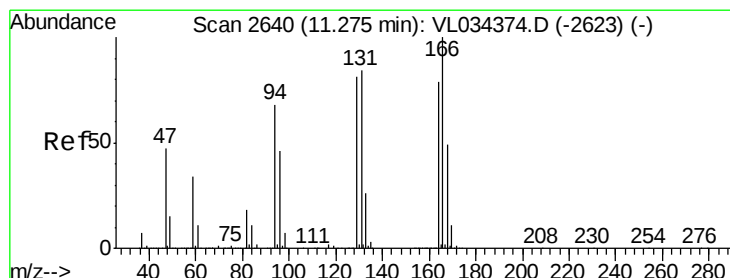
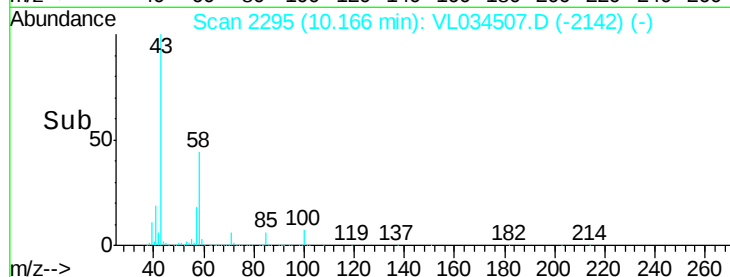
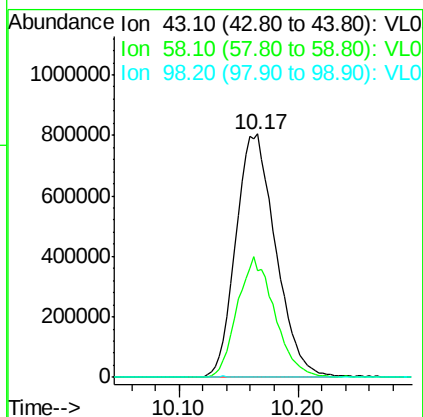
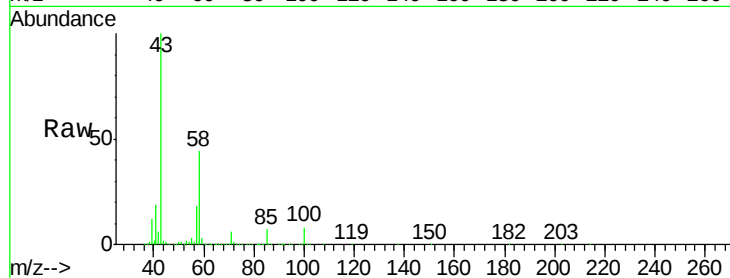




#51
2-Hexanone
Concen: 9.38 ppbv
RT: 10.17 min Scan# 2295
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

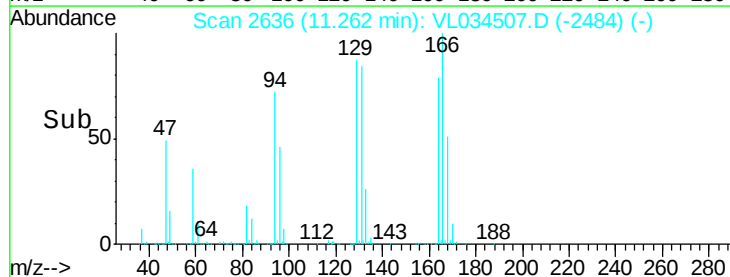
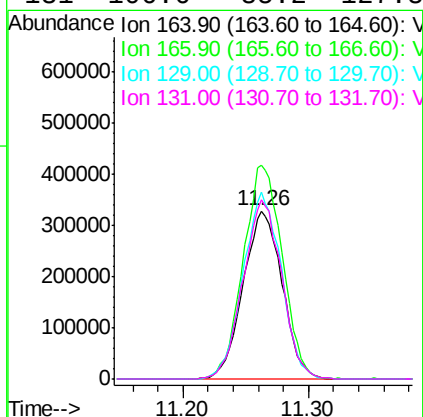
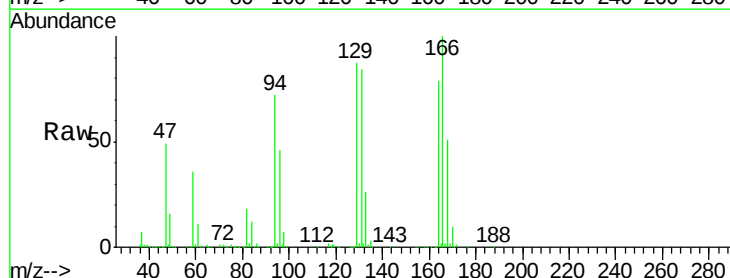
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

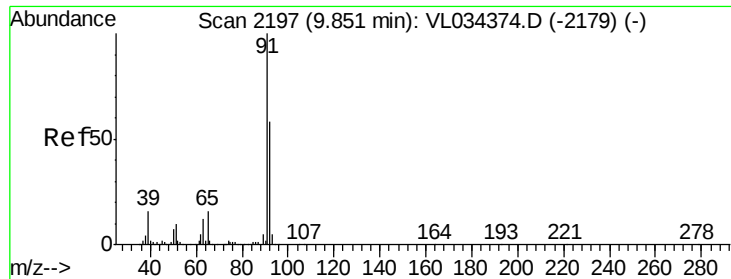
Tot Ion: 43 Resp: 1869316
Ion Ratio Lower Upper
43 100
58 46.6 38.2 57.4
98 0.2 0.2 0.2#



#52
Tetrachloroethene
Concen: 8.22 ppbv
RT: 11.26 min Scan# 2636
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion: 164 Resp: 710277
Ion Ratio Lower Upper
164 100
166 127.3 101.7 152.5
129 111.0 82.6 123.8
131 106.6 85.2 127.8





#53

Toluene

Concen: 9.43 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

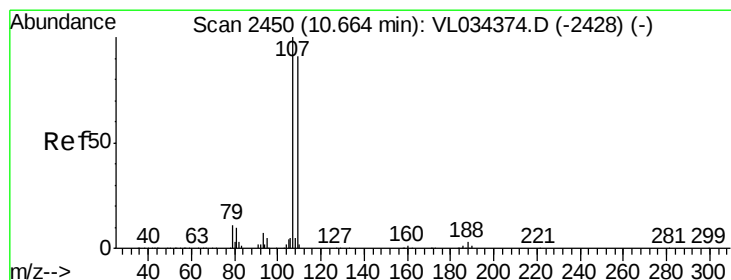
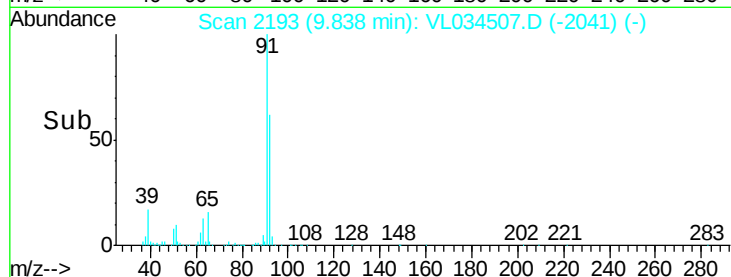
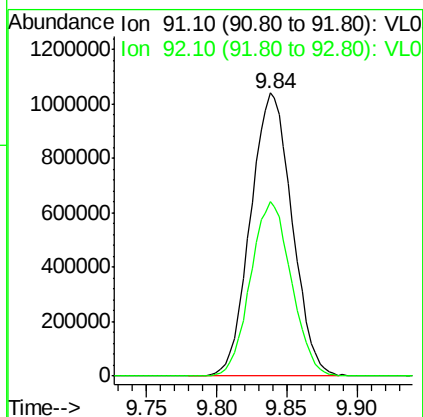
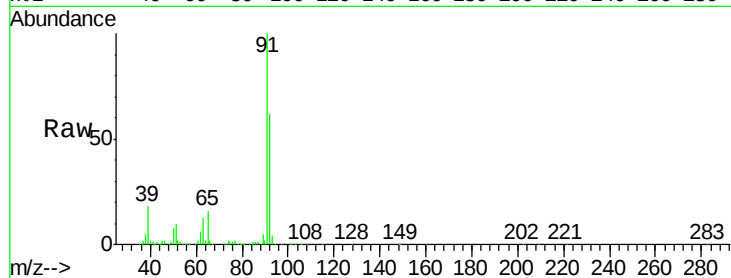
VSTDCCC010EC

Tot Ion: 91 Resp: 2139287

Ion Ratio Lower Upper

91 100

92 60.7 47.9 71.9



#54

1,2-Dibromoethane

Concen: 9.28 ppbv

RT: 10.65 min Scan# 2446

Delta R.T. -0.01 min

Lab File: VL034507.D

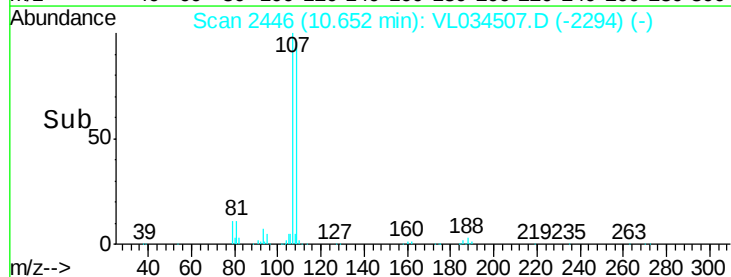
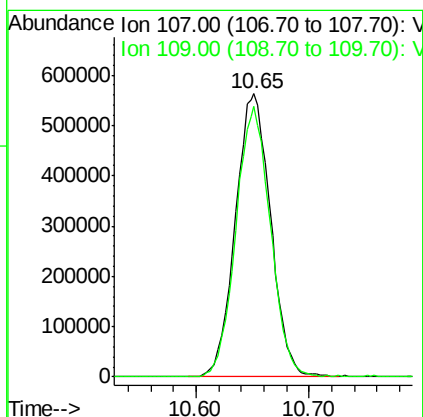
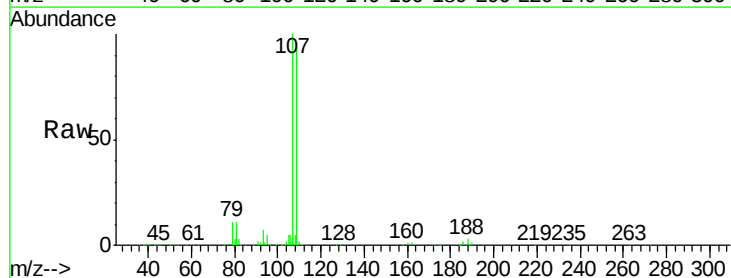
Acq: 18 Dec 2019 9:05

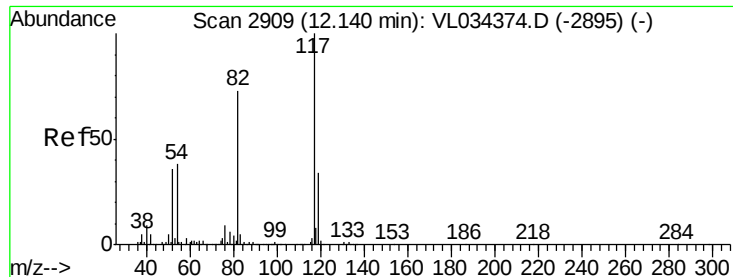
Tgt Ion: 107 Resp: 1218234

Ion Ratio Lower Upper

107 100

109 95.6 73.0 109.4

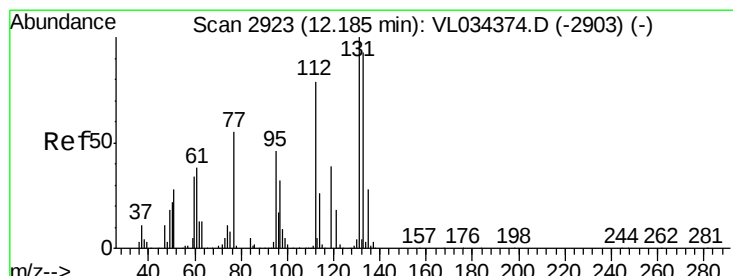
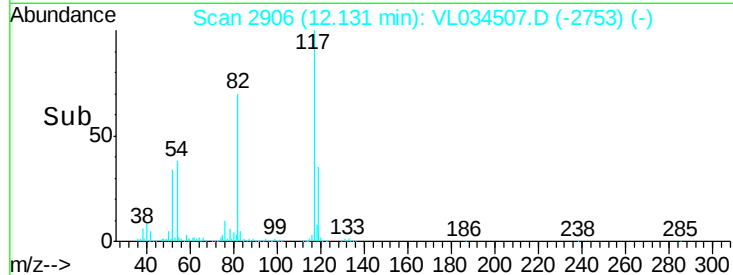
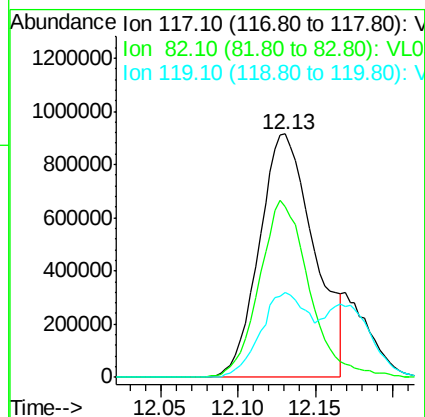
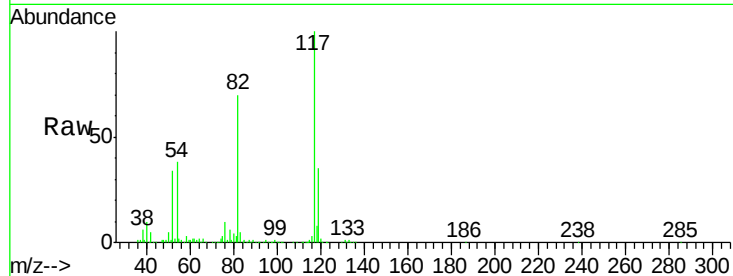




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

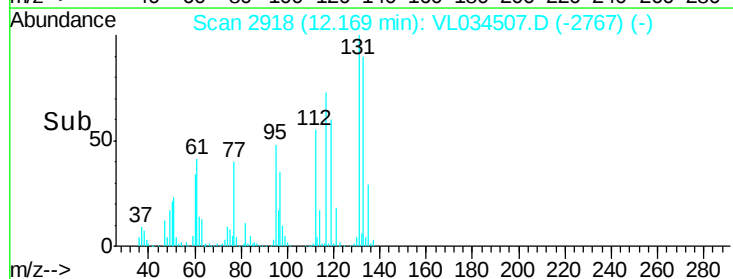
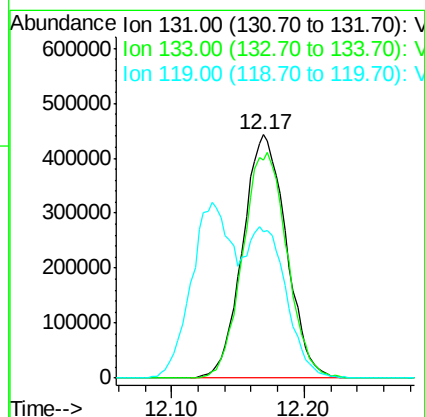
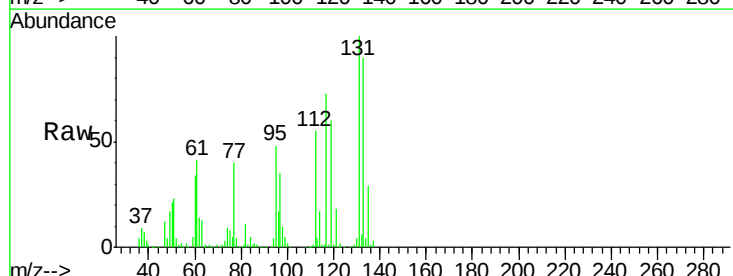
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

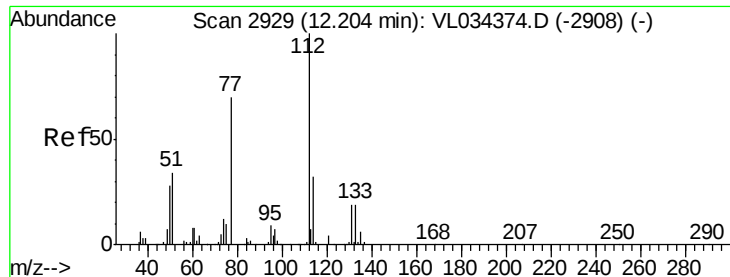
Tot Ion:117 Resp: 2253551
Ion Ratio Lower Upper
117 100
82 66.7 57.5 86.3
119 34.1 25.4 38.2



#56
1,1,1,2-Tetrachloroethane
Concen: 9.15 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. -0.02 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion:131 Resp: 1008833
Ion Ratio Lower Upper
131 100
133 94.6 76.2 114.2
119 59.3 44.6 67.0





#57

Chlorobenzene

Concen: 8.28 ppbv

RT: 12.19 min Scan# 2925

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

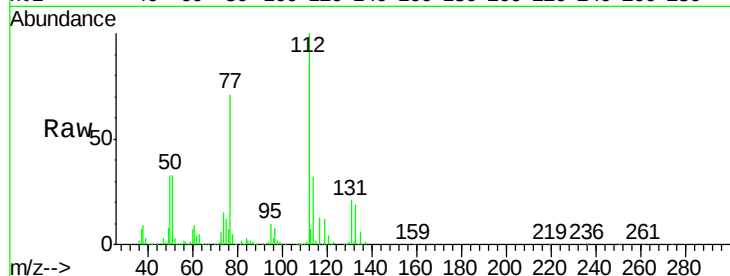
Tot Ion:112 Resp: 1687458

Ion Ratio Lower Upper

112 100

77 70.5 57.1 85.7

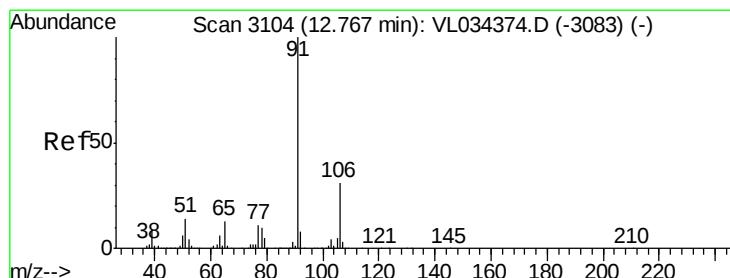
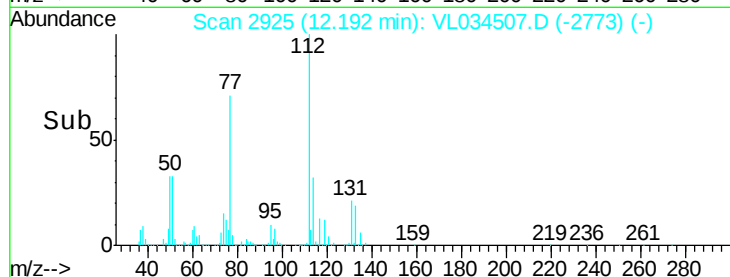
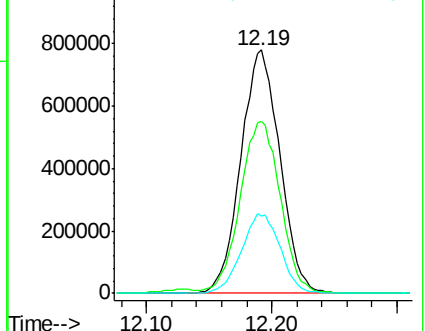
114 31.6 28.5 34.9



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: 8.45 ppbv

RT: 12.75 min Scan# 3100

Delta R.T. -0.01 min

Lab File: VL034507.D

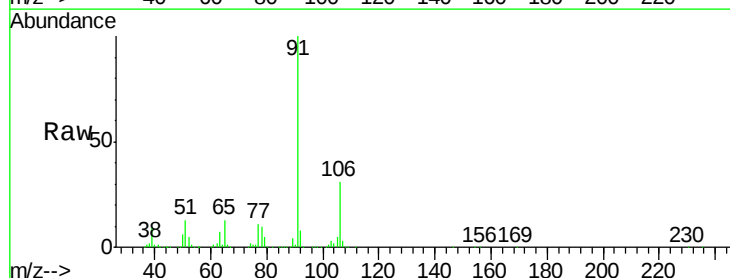
Acq: 18 Dec 2019 9:05

Tgt Ion: 91 Resp: 2955594

Ion Ratio Lower Upper

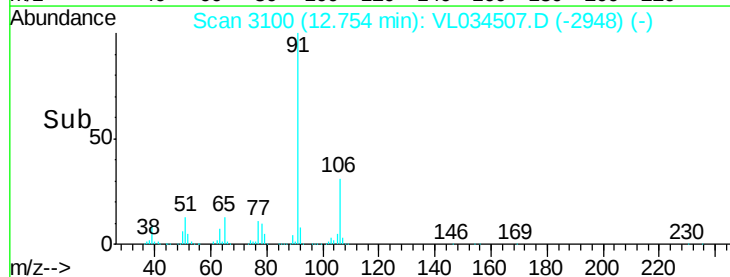
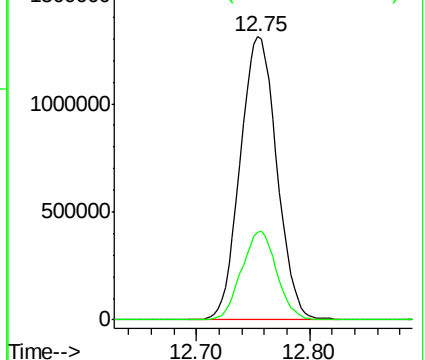
91 100

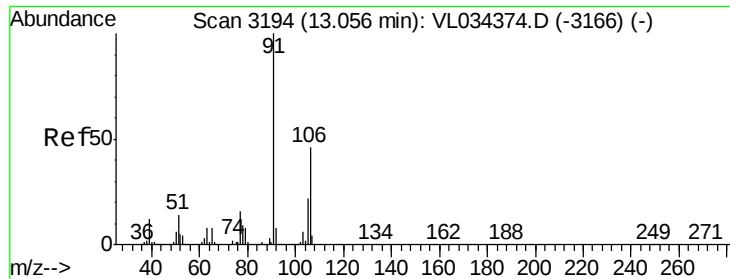
106 31.0 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 8.88 ppbv

RT: 13.04 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

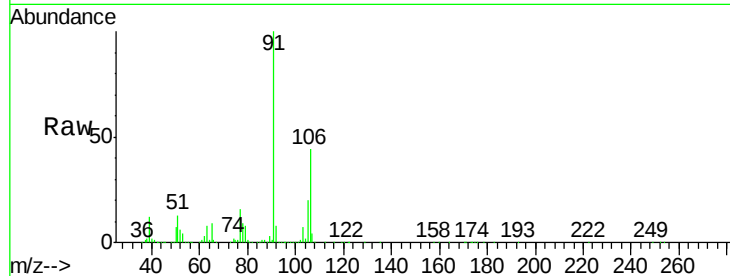
VSTDCCC010EC

Tot Ion: 91 Resp: 2684013

Ion Ratio Lower Upper

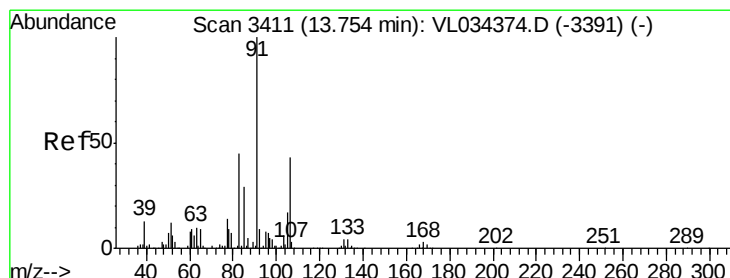
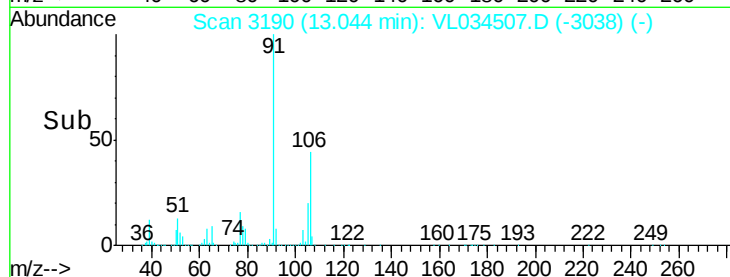
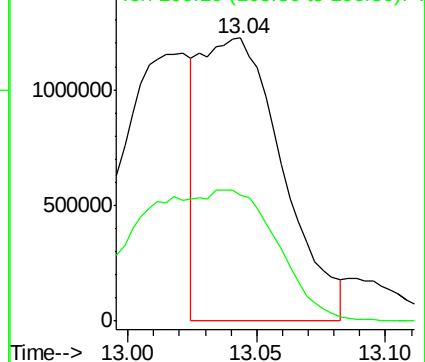
91 100

106 81.8 34.6 51.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 8.34 ppbv

RT: 13.74 min Scan# 3407

Delta R.T. -0.01 min

Lab File: VL034507.D

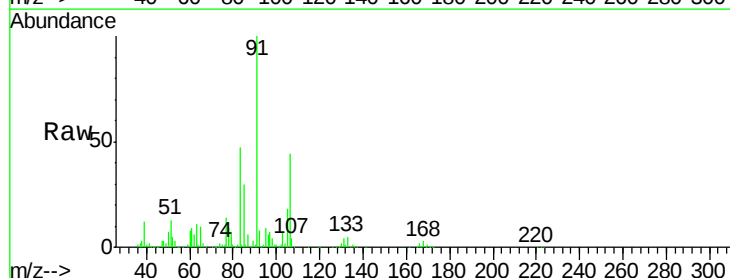
Acq: 18 Dec 2019 9:05

Tgt Ion: 91 Resp: 2492377

Ion Ratio Lower Upper

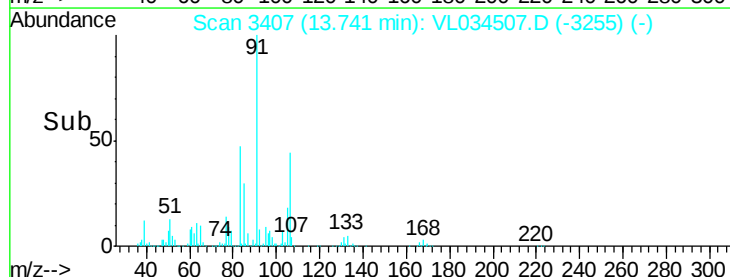
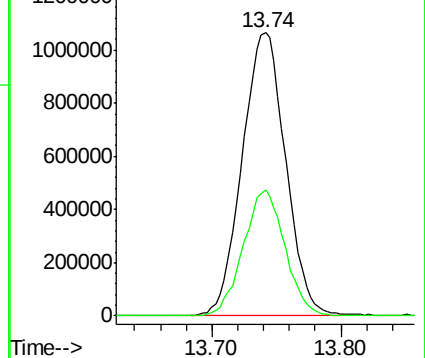
91 100

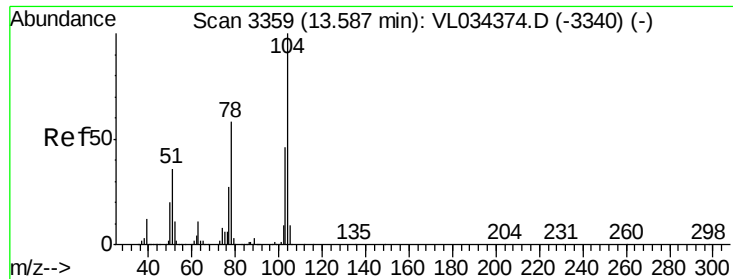
106 42.9 21.3 64.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 8.29 ppbv

RT: 13.57 min Scan# 3355

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

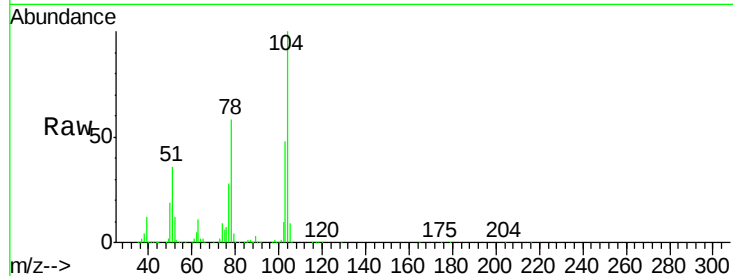
Tot Ion:104 Resp: 1786934

Ion Ratio Lower Upper

104 100

78 61.0 47.6 71.4

103 48.9 38.6 57.8



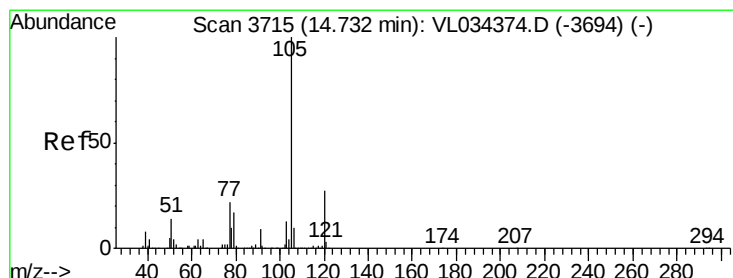
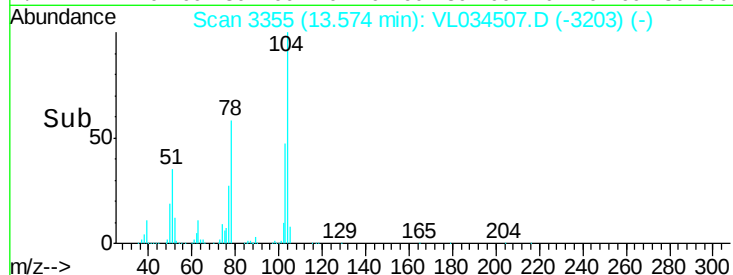
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V

13.57

Time-->



#62

Isopropylbenzene

Concen: 8.08 ppbv

RT: 14.72 min Scan# 3712

Delta R.T. -0.01 min

Lab File: VL034507.D

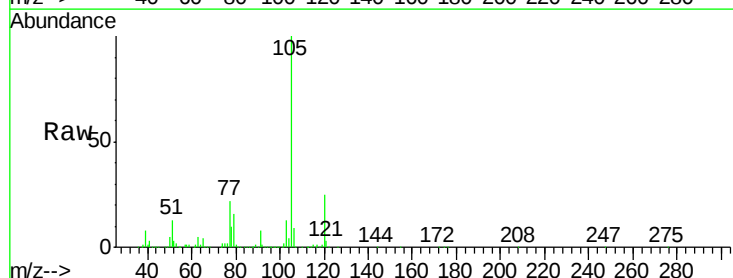
Acq: 18 Dec 2019 9:05

Tgt Ion:105 Resp: 3194663

Ion Ratio Lower Upper

105 100

120 25.8 20.2 30.4

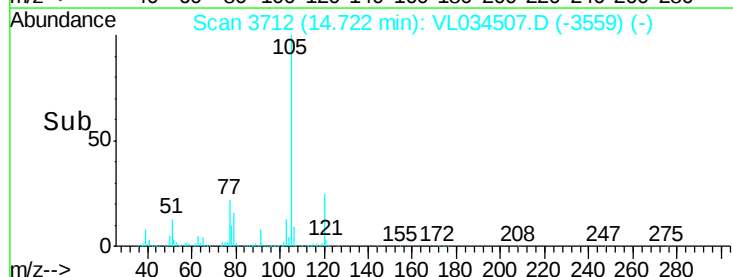


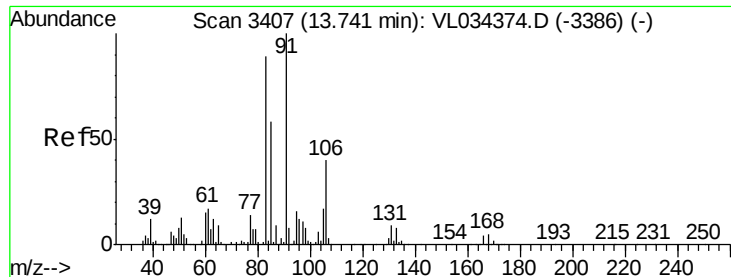
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.72

Time-->

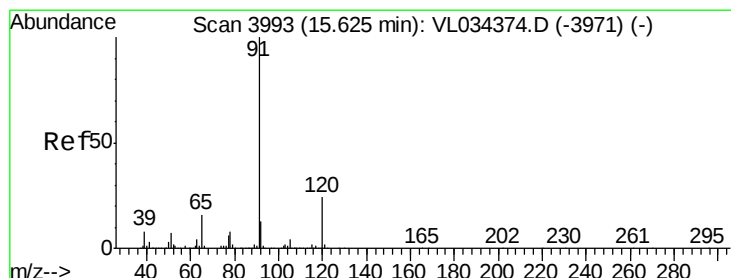
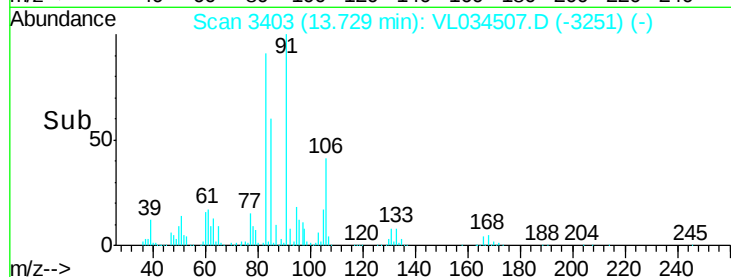
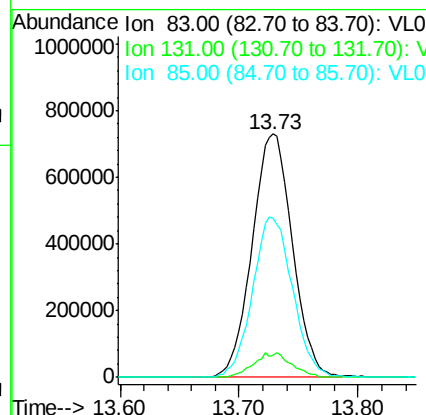
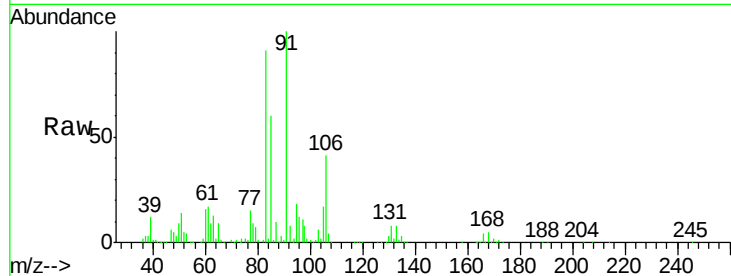




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.62 ppbv
 RT: 13.73 min Scan# 3403
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

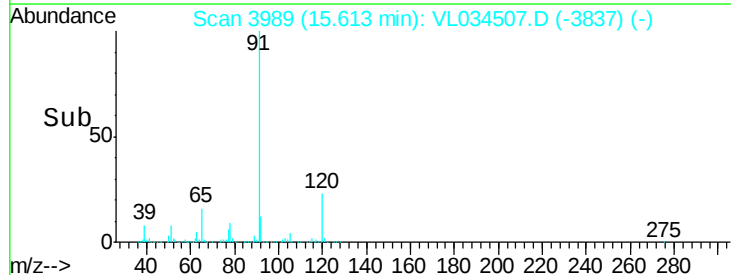
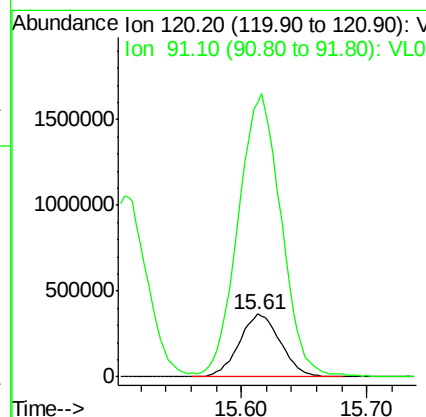
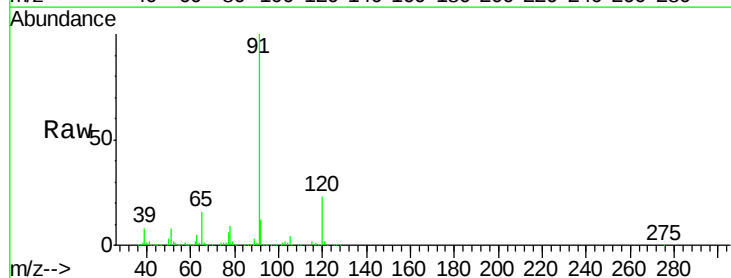
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

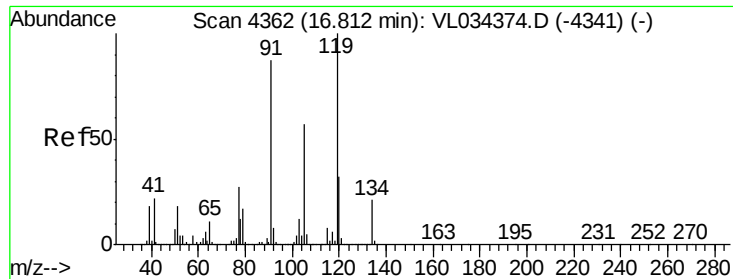
Tot Ion: 83 Resp: 1710944
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.9 14.7
 85 65.4 32.6 97.8



#64
 n-propylbenzene
 Concen: 8.15 ppbv
 RT: 15.61 min Scan# 3989
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion: 120 Resp: 836445
 Ion Ratio Lower Upper
 120 100
 91 472.7 370.9 556.3





#65

tert-Butylbenzene

Concen: 8.05 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

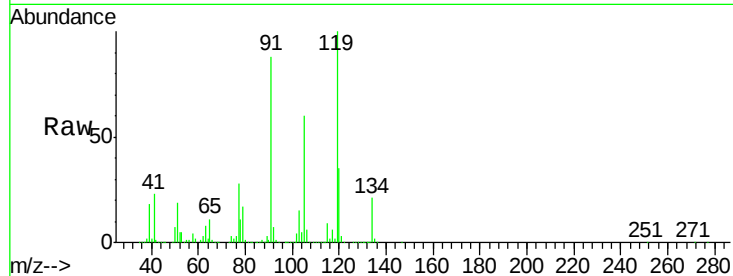
Tot Ion:119 Resp: 2858582

Ion Ratio Lower Upper

119 100

91 91.0 71.6 107.4

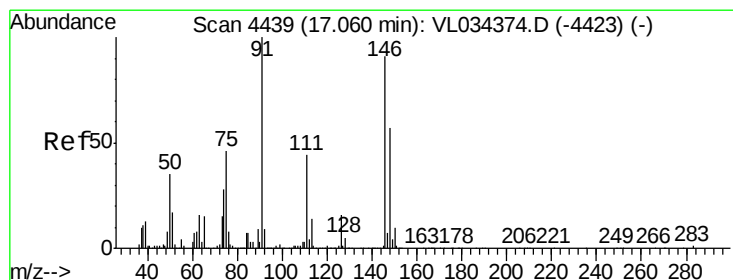
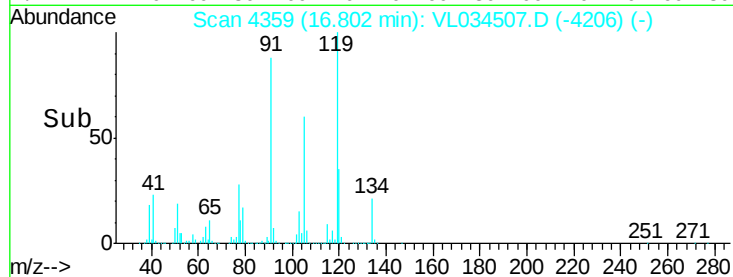
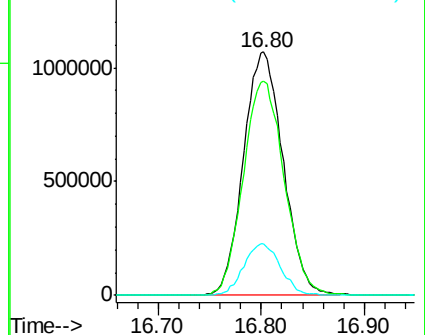
134 19.7 15.9 23.9



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: 10.36 ppbv

RT: 17.05 min Scan# 4436

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

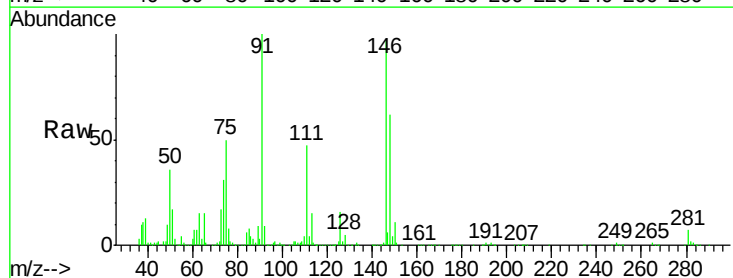
Tgt Ion: 91 Resp: 1414691

Ion Ratio Lower Upper

91 100

126 16.2 12.9 19.3

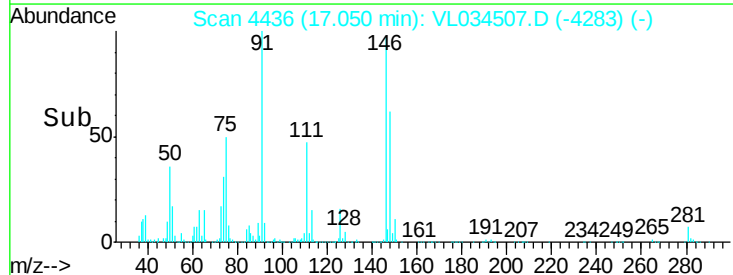
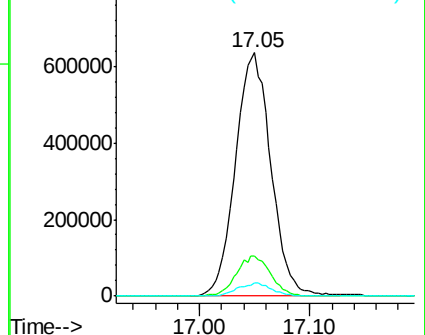
128 5.1 4.3 6.5

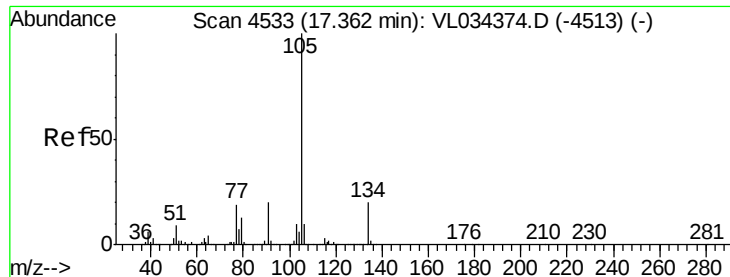


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.95 ppbv

RT: 17.35 min Scan# 4529

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

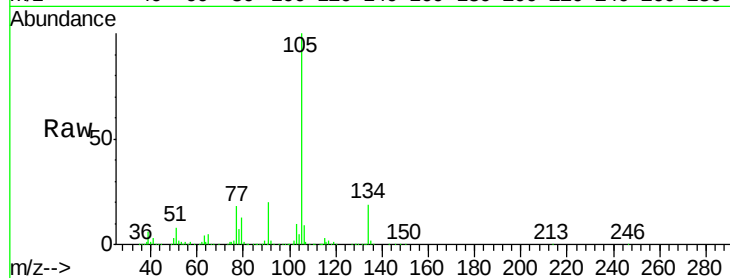
VSTDCCC010EC

Tot Ion:105 Resp: 3948082

Ion Ratio Lower Upper

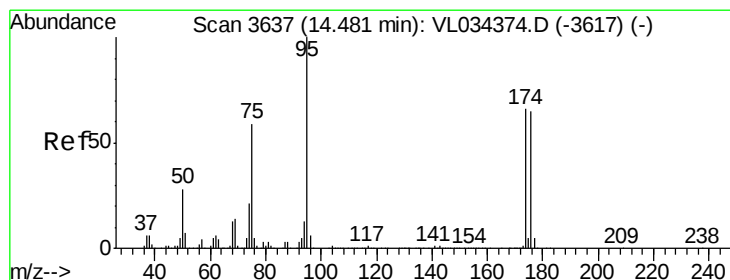
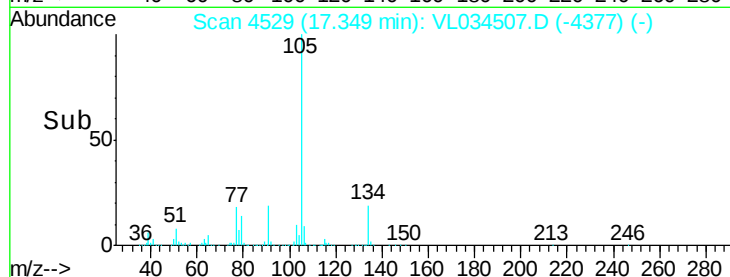
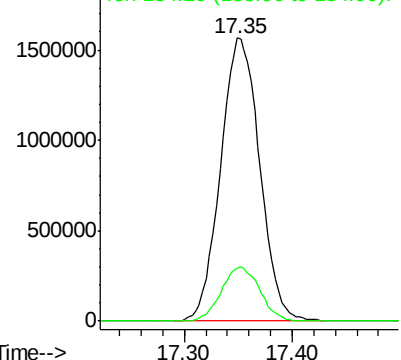
105 100

134 18.8 15.0 22.6



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: 9.33 ppbv

RT: 14.47 min Scan# 3633

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

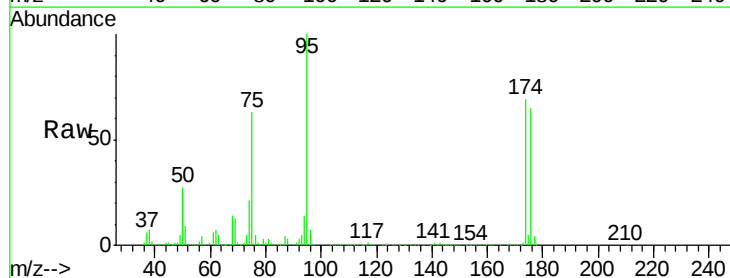
Tgt Ion: 95 Resp: 1769668

Ion Ratio Lower Upper

95 100

174 66.1 52.2 78.2

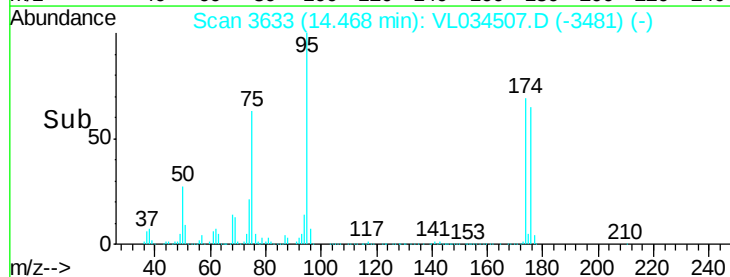
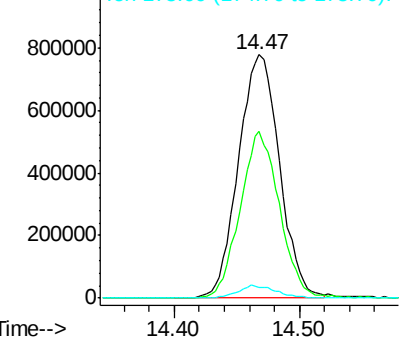
175 4.9 3.8 5.8

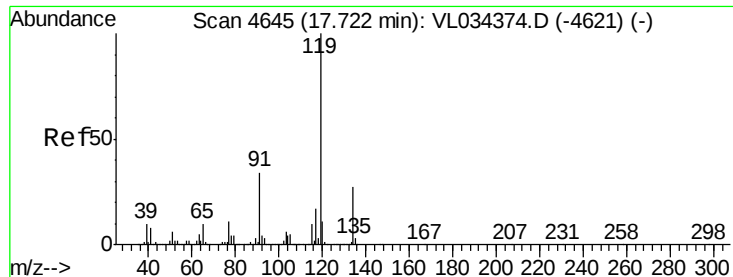


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



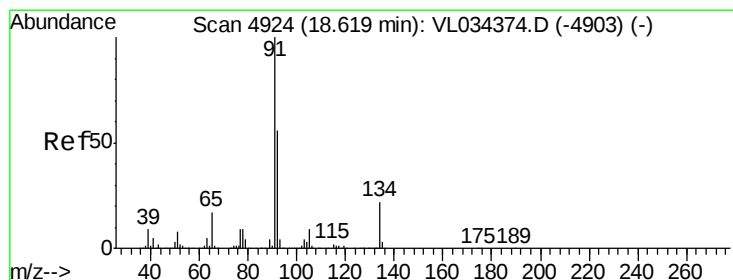
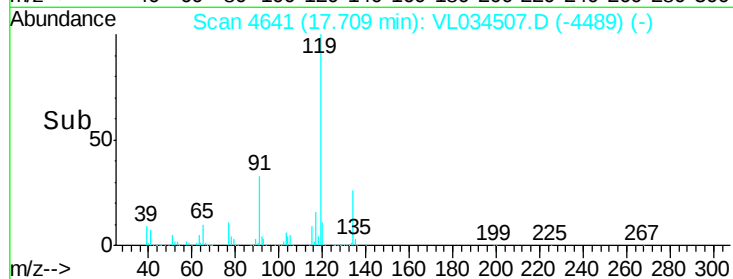
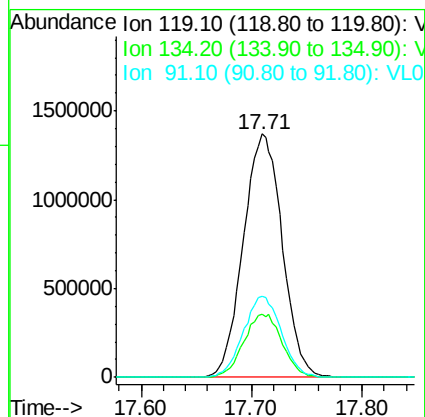
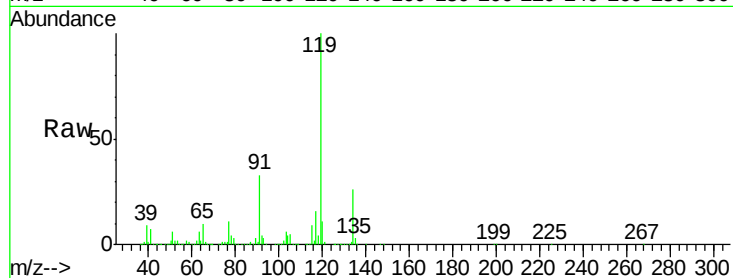


#69
 p-Isopropyltoluene
 Concen: 8.11 ppbv
 RT: 17.71 min Scan# 4641
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 119 Resp: 3343407

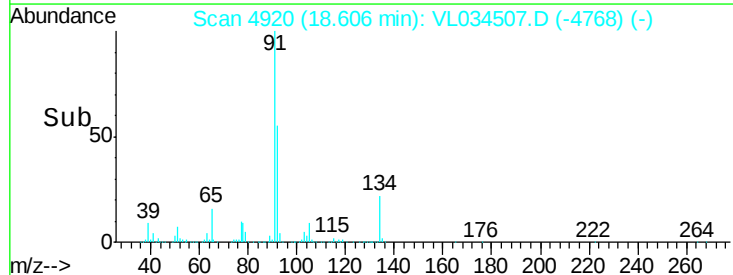
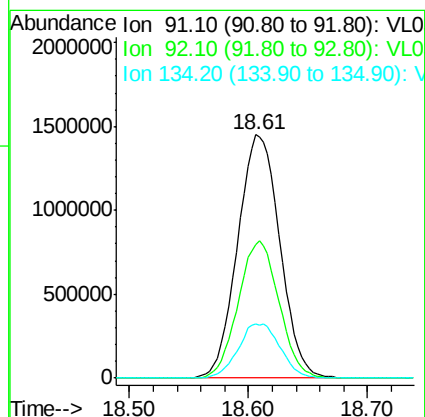
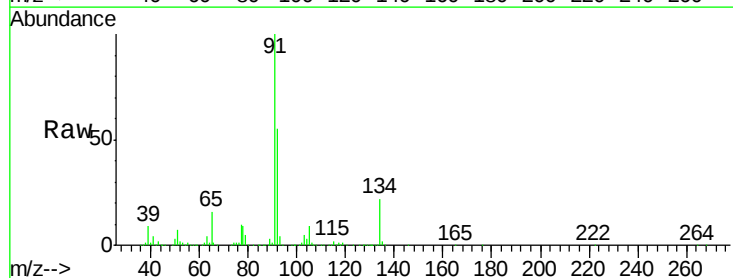
Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	31.0
91	32.8	26.3	39.5

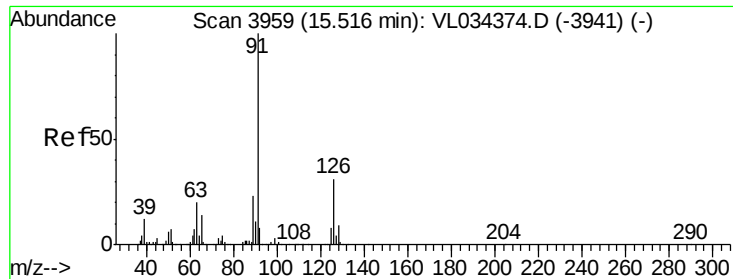


#70
 n-Butylbenzene
 Concen: 7.98 ppbv
 RT: 18.61 min Scan# 4920
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion: 91 Resp: 3537415

Ion	Ratio	Lower	Upper
91	100		
92	54.9	43.8	65.6
134	22.4	17.9	26.9





#71

2-Chlorotoluene

Concen: 7.93 ppbv

RT: 15.51 min Scan# 3956

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

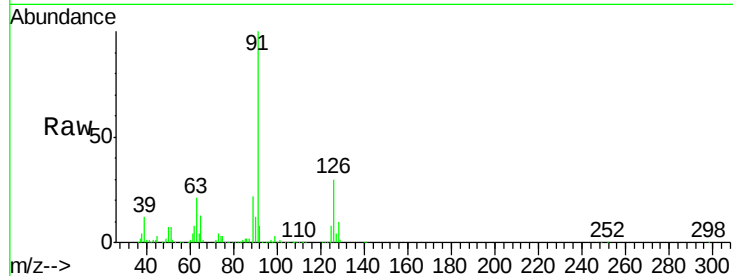
VSTDCCC010EC

Tot Ion: 91 Resp: 2499069

Ion Ratio Lower Upper

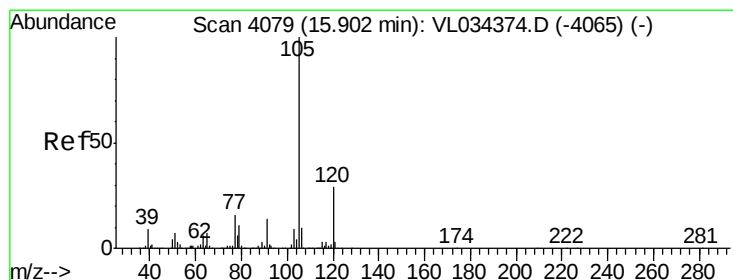
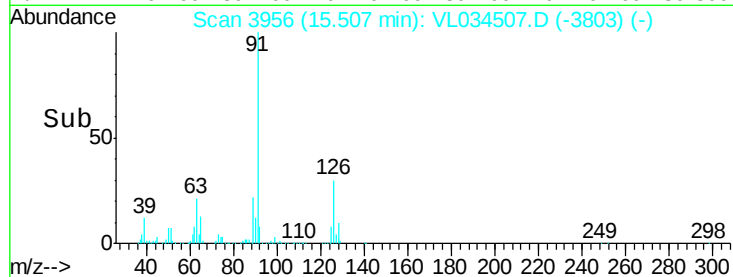
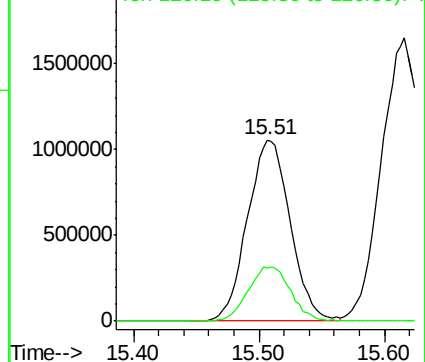
91 100

126 30.1 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: 8.07 ppbv

RT: 15.89 min Scan# 4076

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion: 105 Resp: 2786775

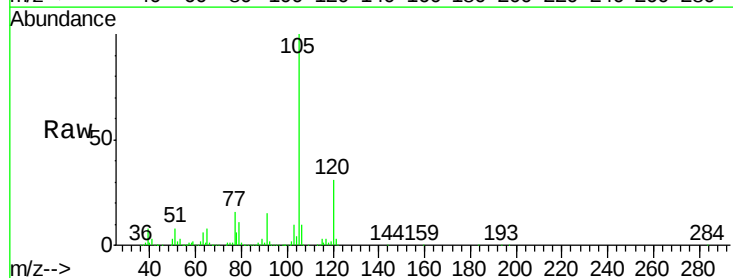
Ion Ratio Lower Upper

105 100

120 29.4 23.5 35.3

91 14.9 11.4 17.0

77 15.7 12.6 19.0

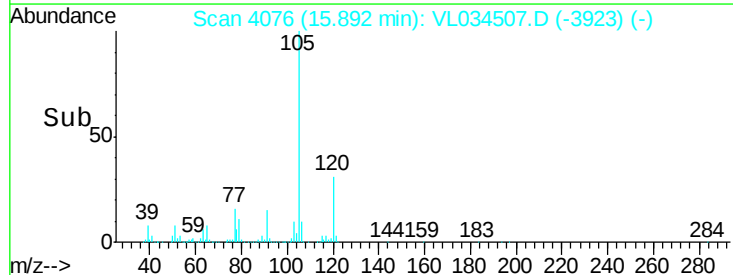
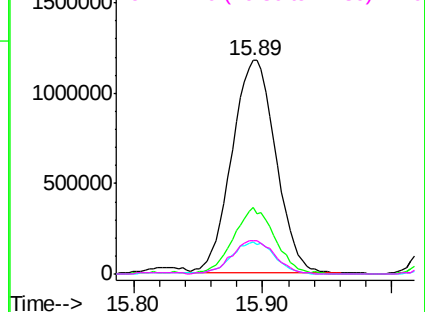


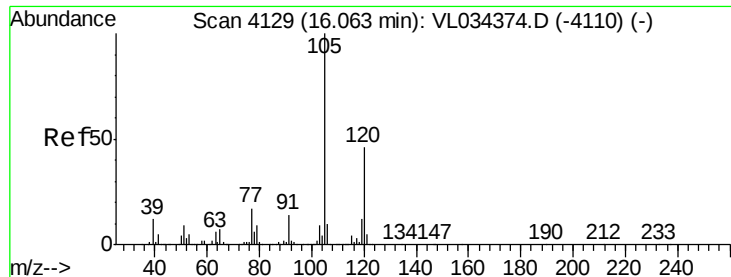
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.01 ppbv

RT: 16.05 min Scan# 4126

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

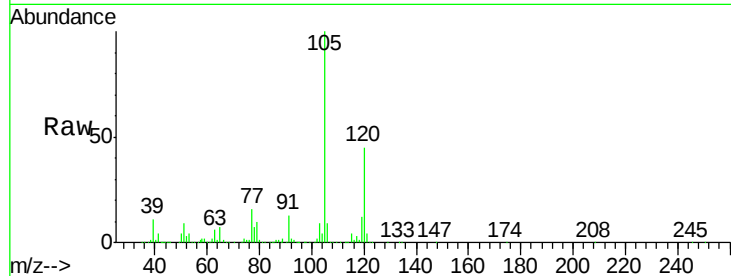
VSTDCCC010EC

Tot Ion:105 Resp: 2706295

Ion Ratio Lower Upper

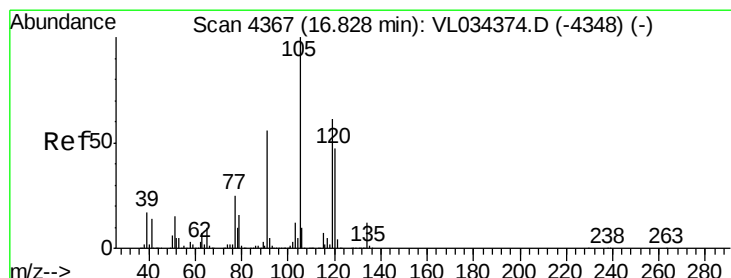
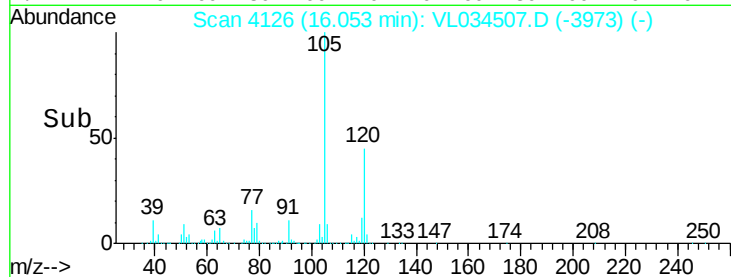
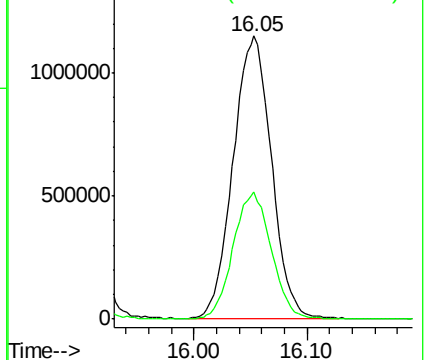
105 100

120 45.1 37.1 55.7



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: 7.84 ppbv

RT: 16.82 min Scan# 4365

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion:105 Resp: 2816899

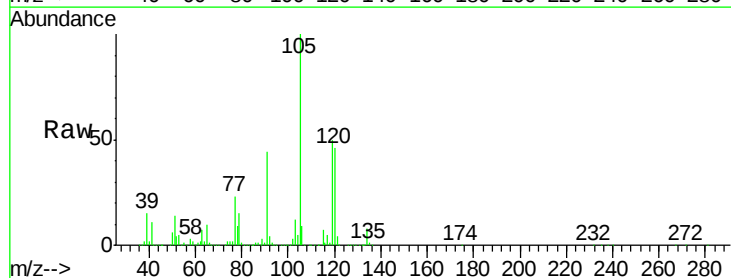
Ion Ratio Lower Upper

105 100

120 46.2 37.4 56.0

91 44.1 46.3 69.5#

77 22.5 20.6 30.8

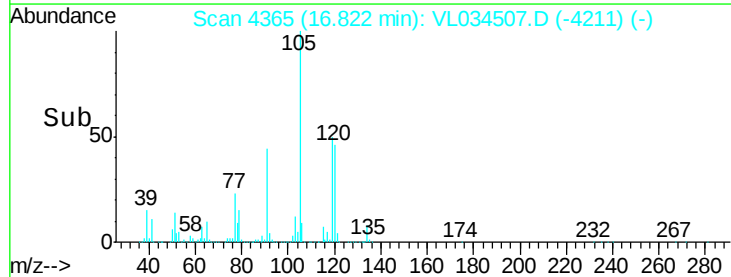
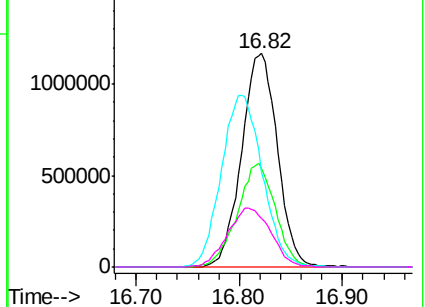


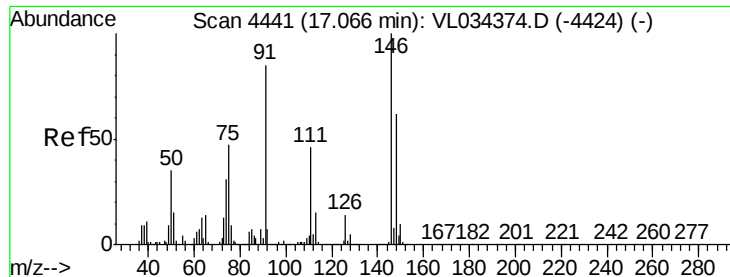
Abundance Ion 105.10 (104.80 to 105.80): V

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: 7.66 ppbv

RT: 17.06 min Scan# 4438

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

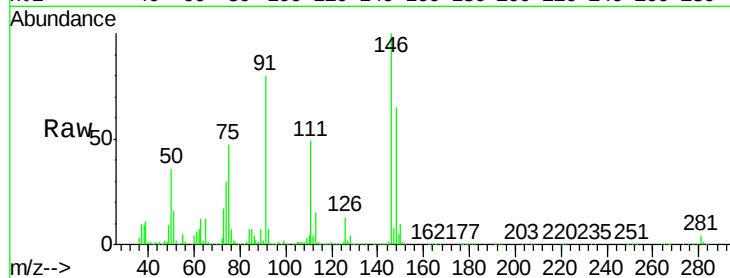
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1581910

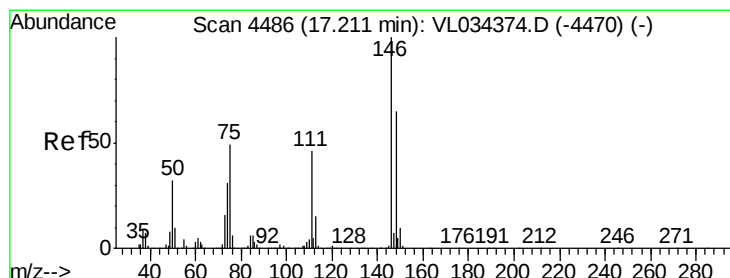
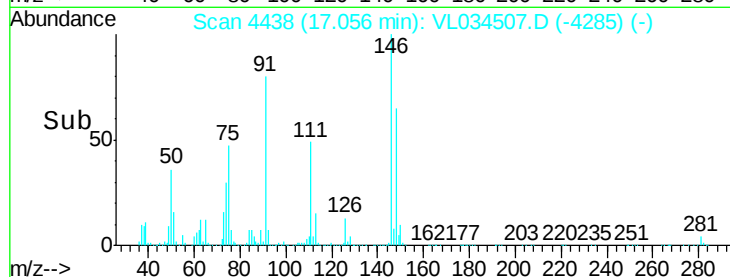
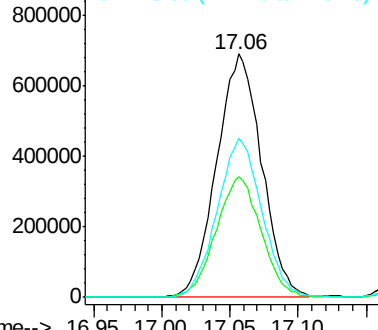
Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.4	73.4
148	65.1	32.4	97.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 7.92 ppbv

RT: 17.20 min Scan# 4483

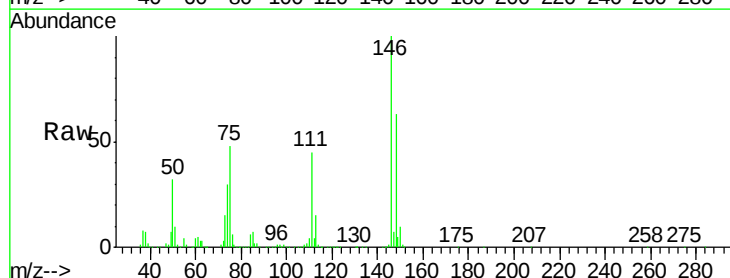
Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion:146 Resp: 1588382

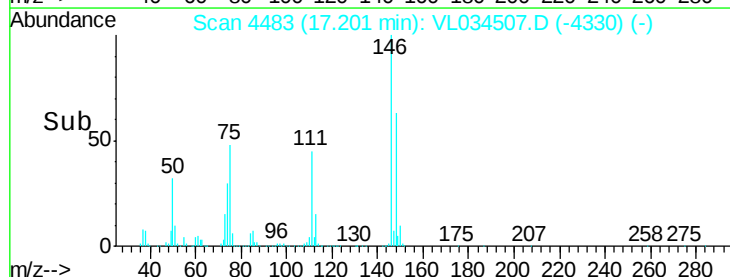
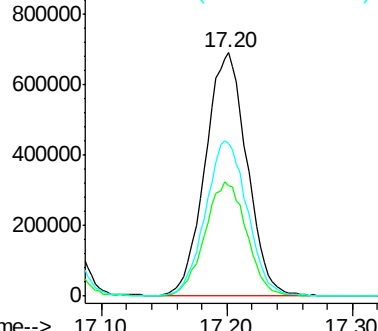
Ion	Ratio	Lower	Upper
146	100		
111	47.0	24.1	72.3
148	64.8	32.9	98.6

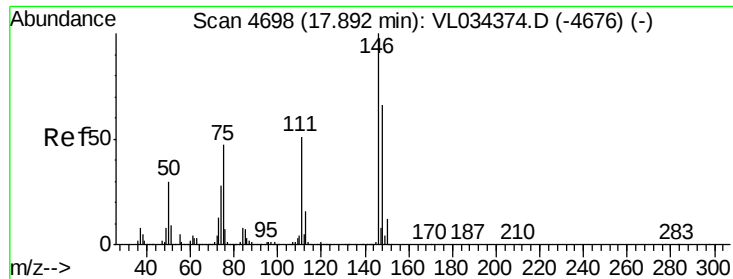


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

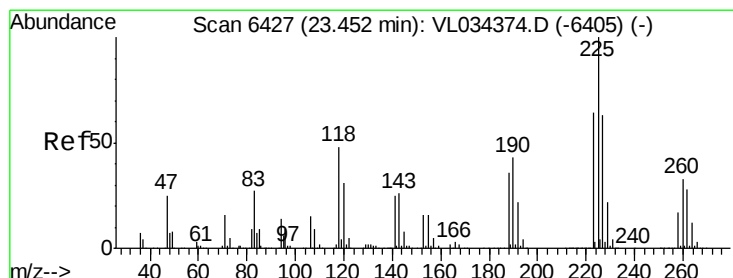
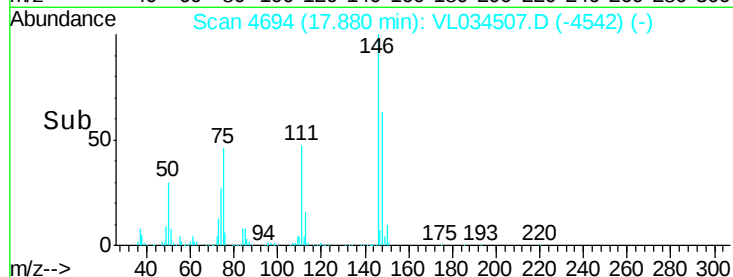
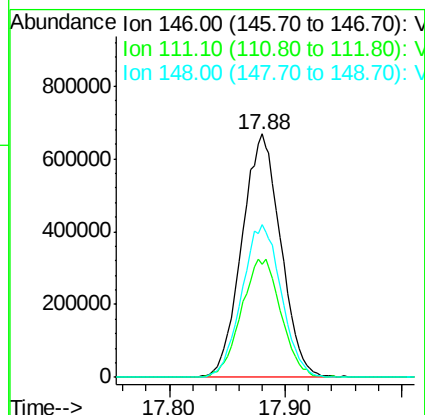
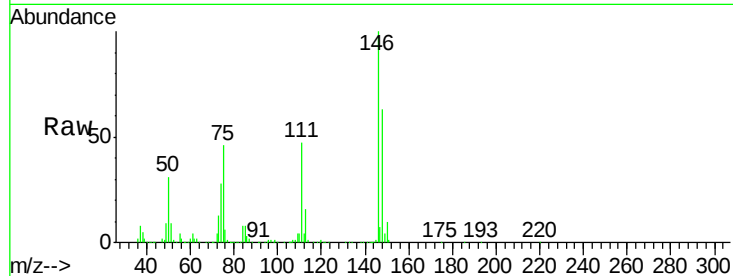




#77
 1,2-Dichlorobenzene
 Concen: 7.81 ppbv
 RT: 17.88 min Scan# 4694
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

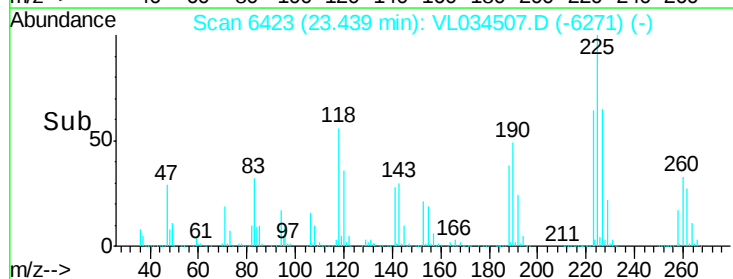
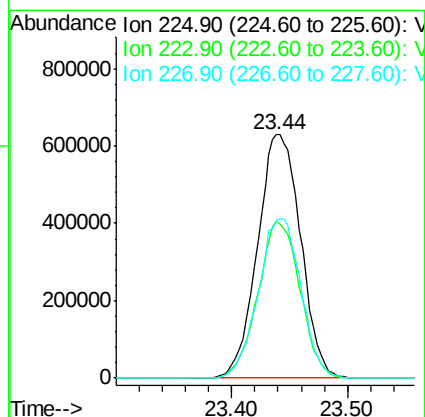
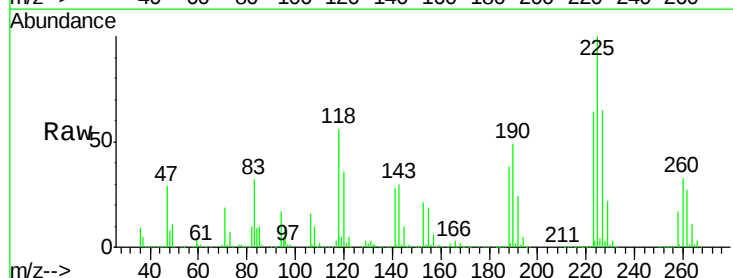
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

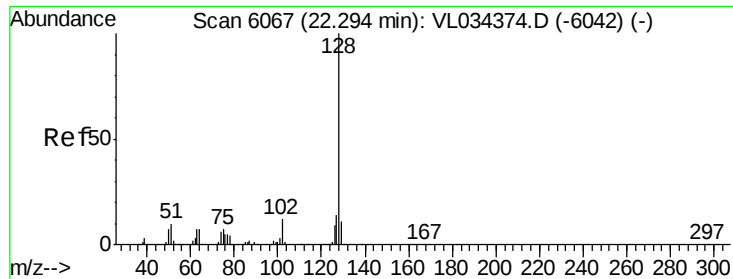
Tot Ion:146 Resp: 1557196
 Ion Ratio Lower Upper
 146 100
 111 49.7 25.0 75.0
 148 63.6 32.7 98.1



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.47 ppbv
 RT: 23.44 min Scan# 6423
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion:225 Resp: 1622045
 Ion Ratio Lower Upper
 225 100
 223 63.1 50.2 75.2
 227 64.9 51.5 77.3

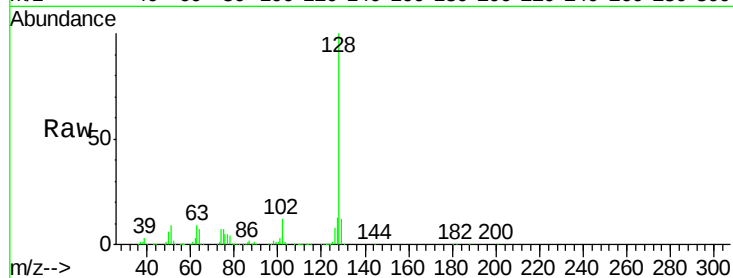




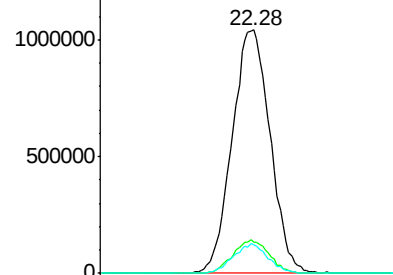
#79
Naphthalene
Concen: 9.73 ppbv
RT: 22.28 min Scan# 6064
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

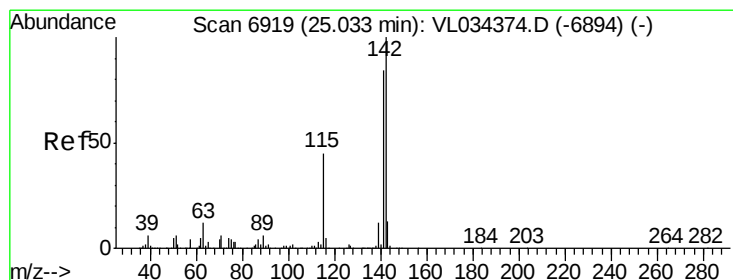
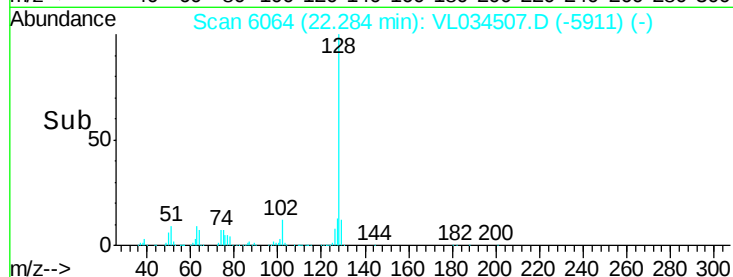
Tot Ion:128 Resp: 3028224
Ion Ratio Lower Upper
128 100
127 12.9 11.0 16.6
129 11.7 8.9 13.3



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

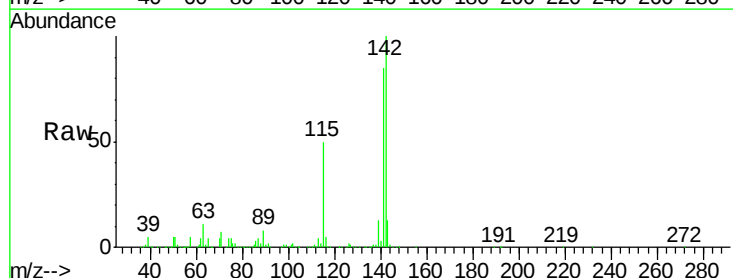


Time-->

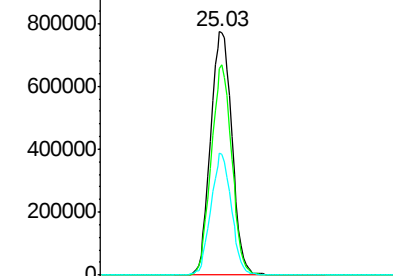


#80
Naphthalene, 2-methyl-
Concen: 11.08 ppbv
RT: 25.03 min Scan# 6917
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

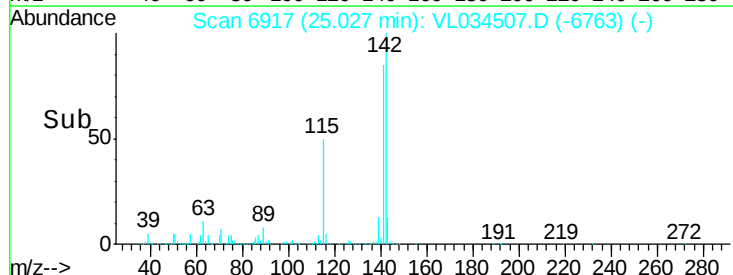
Tgt Ion:142 Resp: 1557047
Ion Ratio Lower Upper
142 100
141 83.2 67.1 100.7
115 47.8 36.6 54.8

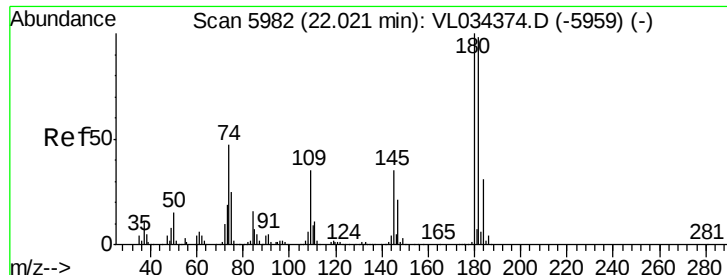


Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V



Time-->





#81

1,2,4-Trichlorobenzene

Concen: 9.28 ppbv

RT: 22.01 min Scan# 5978

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

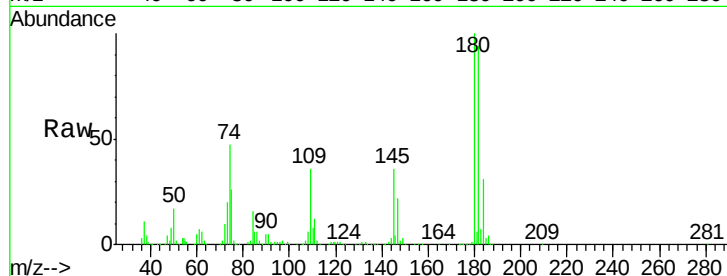
Tot Ion:180 Resp: 1775233

Ion Ratio Lower Upper

180 100

182 96.0 76.8 115.2

184 31.1 24.9 37.3



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

