

Data File : VL034126.D
Acq On : 5 Sep 2019 6:26
Operator : SY/AP
Sample : VSTDIC015
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Sep 05 09:59:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 09:42:59 2019
QLast Update : Thu Sep 05 09:42:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1100336	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2162395	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2402985	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1870998	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	2404494	13.248	ppbv	95
3) Chlorodifluoromethane	2.98	51	1672094	13.633	ppbv	99
4) Chloromethane	3.14	50	1084145	14.139	ppbv	97
5) Vinyl Chloride	3.26	62	952424	13.636	ppbv	96
6) Bromomethane	3.47	94	482934	14.010	ppbv	95
7) Chloroethane	3.56	64	341198	14.338	ppbv	95
8) Dichlorotetrafluoroethane	3.18	85	1865933	12.773	ppbv	99
9) Propene	3.00	41	933536	13.603	ppbv	98
10) Heptane	8.19	43	2400918	13.481	ppbv	98
11) Trichlorofluoromethane	3.96	101	1967198	13.291	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1339354	13.526	ppbv	98
13) Ethanol	3.61	45	159429	10.267	ppbv	96
14) Bromoethene	3.75	108	598551	13.981	ppbv	99
15) Acetone	3.86	43	1709408	12.890	ppbv	99
16) 1,3-Butadiene	3.33	39	946219	14.089	ppbv	100
17) tert-Butyl alcohol	4.32	59	1143093	11.874	ppbv	98
18) 1,1-Dichloroethene	4.31	96	643599	14.245	ppbv	97
19) Isopropyl Alcohol	3.98	45	1046006	11.722	ppbv	100
20) Methylene Chloride	4.36	84	575740	13.131	ppbv	98
21) Allyl Chloride	4.43	41	1261225	14.426	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	653710	14.436	ppbv	99
23) Vinyl Acetate	5.11	43	3102052	13.788	ppbv	99
24) 1,1-Dichloroethane	5.04	63	1992106	13.341	ppbv	100
25) Ethyl Acetate	5.72	43	3613313	12.421	ppbv	99
26) Hexane	5.73	57	1589596	12.282	ppbv	96
27) Carbon Disulfide	4.57	76	1728386	14.835	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	2505849	13.215	ppbv	99
29) Chloroform	5.80	83	2334335	13.372	ppbv	96
30) Cyclohexane	7.19	84	1312817	14.031	ppbv	98
31) cis-1,2-Dichloroethene	5.59	61	1724514	13.914	ppbv	97
32) 1,1,1-Trichloroethane	6.57	97	2227209	13.584	ppbv	98
34) 2-Butanone	5.28	43	2647338	12.735	ppbv	99
35) Carbon Tetrachloride	7.08	117	2140305	12.802	ppbv	98
36) Benzene	6.95	78	3090620	12.504	ppbv	98
37) 1,2-Dichloroethane	6.36	62	1995262	13.175	ppbv	100
38) Trichloroethene	7.90	130	1011900	11.070	ppbv	96
39) 1,2-Dichloropropane	7.68	63	1379980	13.039	ppbv	97
40) 1,4-Dioxane	7.89	88	414588	10.621	ppbv #	99
41) Tetrahydrofuran	6.09	42	1677345	13.515	ppbv	99
42) Bromodichloromethane	7.86	83	2593009	13.121	ppbv	98
43) Methyl Methacrylate	8.08	69	1386891	13.620	ppbv	99

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Quant Time: Sep 05 09:59:29 2019
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Sep 05 09:42:59 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	5170134	11.346	ppbv	97
45) t-1,3-Dichloropropene	9.36	75	1835425	15.357	ppbv	96
46) cis-1,3-Dichloropropene	8.78	75	2042096	14.025	ppbv	97
47) 1,1,2-Trichloroethane	9.56	97	1252989	13.016	ppbv	99
48) Dibromochloromethane	10.39	129	1988083	13.826	ppbv	98
49) Bromoform	13.14	173	1754367	13.935	ppbv	100
50) 4-Methyl-2-Pentanone	8.81	43	3787011	11.938	ppbv	98
51) 2-Hexanone	10.21	43	3375636	12.435	ppbv #	100
52) Tetrachloroethene	11.31	164	995678	11.511	ppbv	98
53) Toluene	9.89	91	3415350	12.494	ppbv	99
54) 1,2-Dibromoethane	10.70	107	1864208	13.023	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.22	131	1270193	12.324	ppbv #	62
57) Chlorobenzene	12.25	112	2380923	11.518	ppbv	99
58) Ethyl Benzene	12.80	91	4488761	11.404	ppbv	95
59) m/p-Xylene	13.08	91	938939	2.928	ppbv #	32
60) o-Xylene	13.79	91	3564015	11.132	ppbv	99
61) Styrene	13.63	104	2923205	12.219	ppbv	99
62) Isopropylbenzene	14.77	105	4603898	11.056	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.78	83	2588223	9.883	ppbv	99
64) n-propylbenzene	15.66	120	1275313	12.047	ppbv	90
65) tert-Butylbenzene	16.85	119	3858750	10.758	ppbv	99
66) Benzyl Chloride	17.10	91	2181295	16.504	ppbv	99
67) sec-Butylbenzene	17.40	105	5483191	10.610	ppbv	99
69) p-Isopropyltoluene	17.76	119	4503758	10.911	ppbv	98
70) n-Butylbenzene	18.65	91	4982137	10.586	ppbv	98
71) 2-Chlorotoluene	15.56	91	3868777	11.369	ppbv	98
72) 4-Ethyltoluene	15.94	105	4167423	11.537	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3951006	11.254	ppbv	98
74) 1,2,4-Trimethylbenzene	16.87	105	3826397	10.585	ppbv	96
75) 1,3-Dichlorobenzene	17.10	146	2183501	11.407	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	2283155	11.311	ppbv	100
77) 1,2-Dichlorobenzene	17.93	146	2198315	11.232	ppbv	98
78) Hexachloro-1,3-Butadiene	23.48	225	1487057	11.145	ppbv	99
79) Naphthalene	22.33	128	3902434	11.952	ppbv	98
80) Naphthalene,2-methyl-	25.06	142	2293167	20.214	ppbv	100
81) 1,2,4-Trichlorobenzene	22.06	180	2081754	11.708	ppbv	99

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

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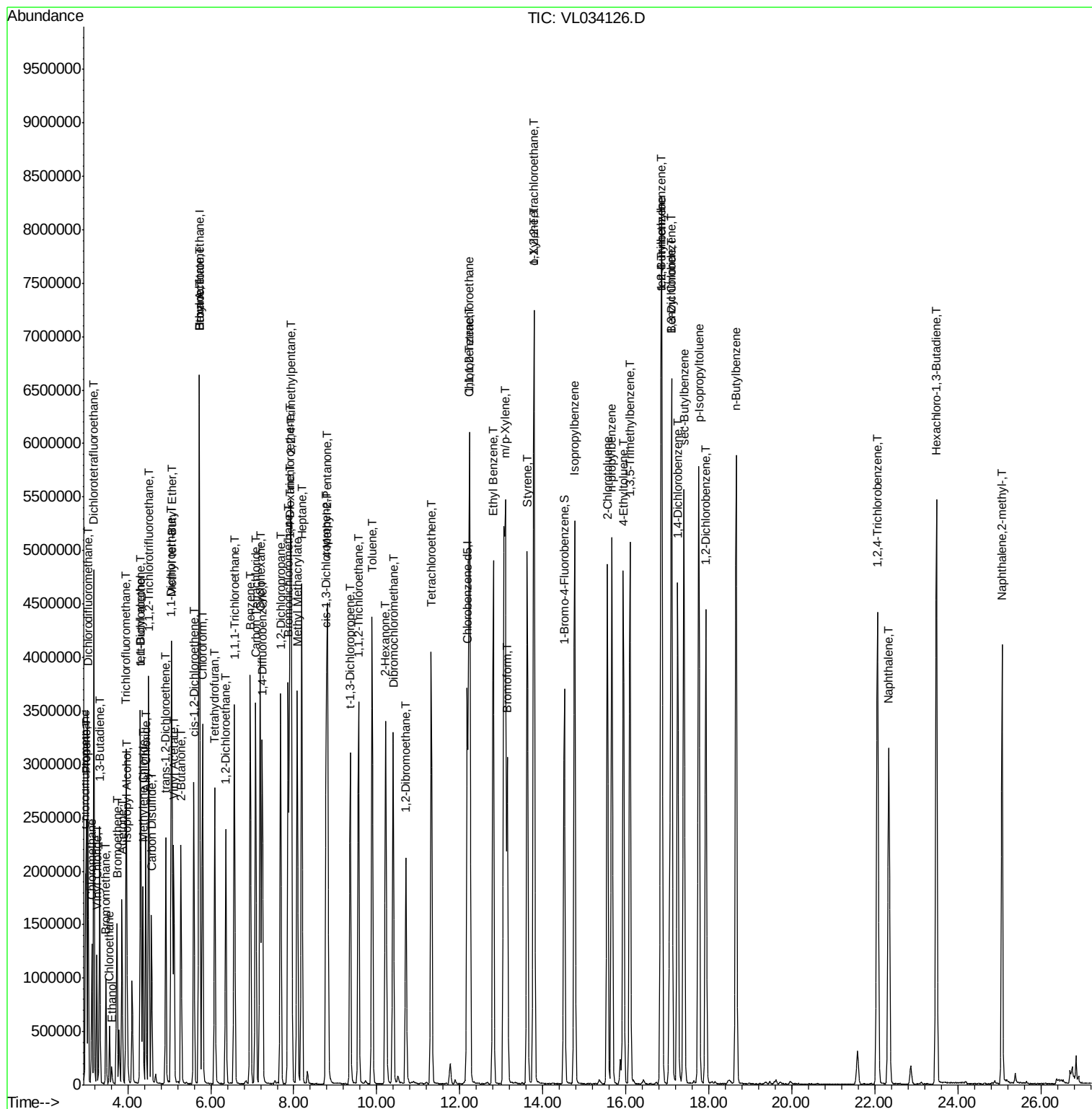
Quant Time: Sep 05 09:59:29 2019

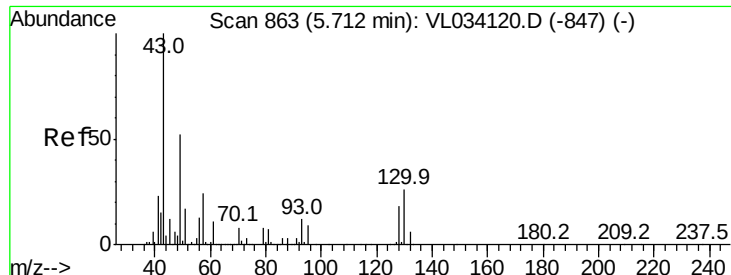
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL090519AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.00 min

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VSTDIC015

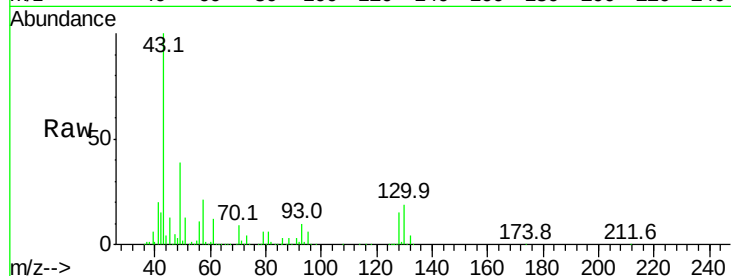
Tgt Ion: 49 Resp: 1100336

Ion Ratio Lower Upper

49 100

128 36.0 18.4 55.0

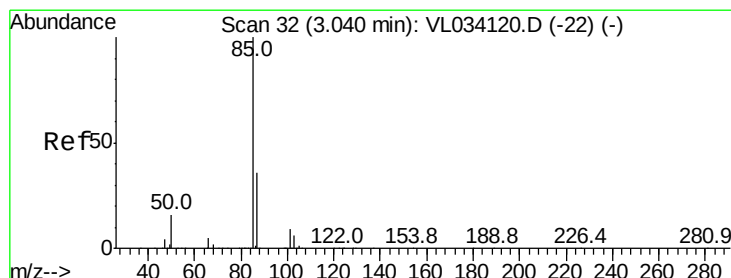
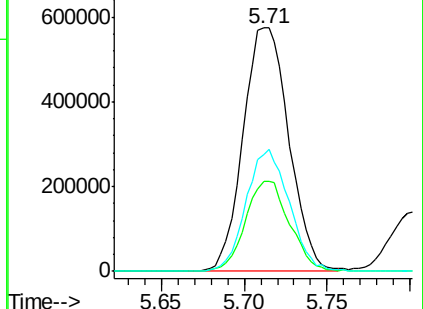
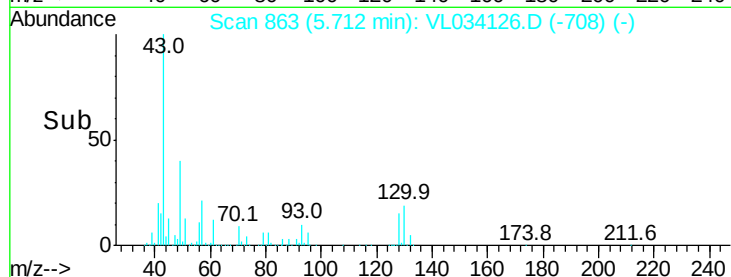
130 47.3 23.5 70.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 13.248 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL034126.D

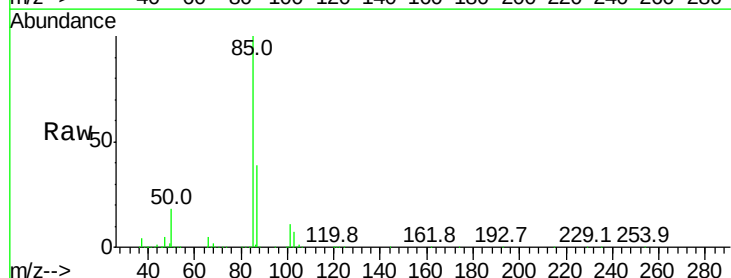
Acq: 5 Sep 2019 6:26

Tgt Ion: 85 Resp: 2404494

Ion Ratio Lower Upper

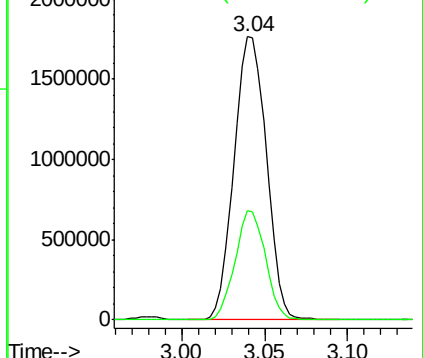
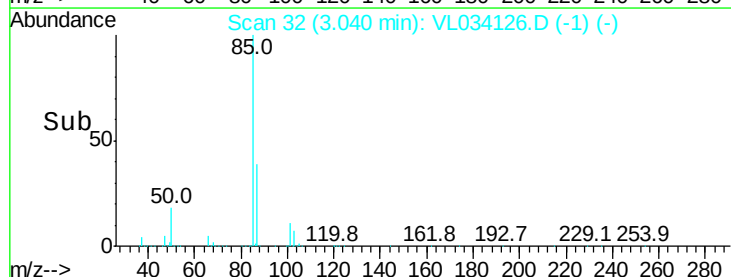
85 100

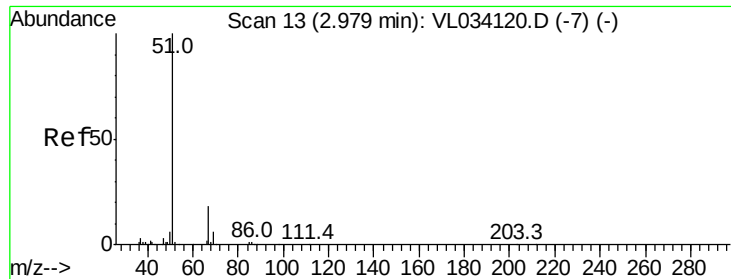
87 38.5 28.6 43.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.633 ppbv

RT: 2.98 min Scan# 13

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

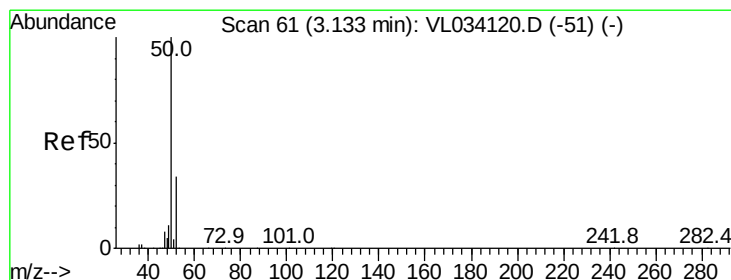
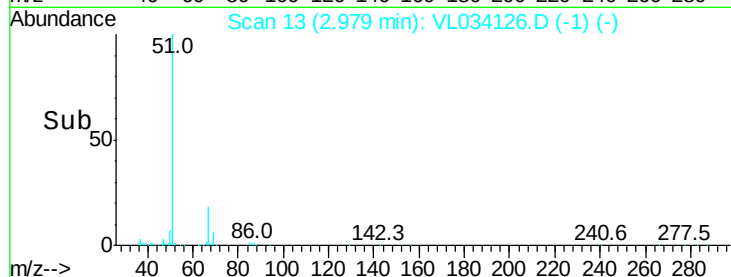
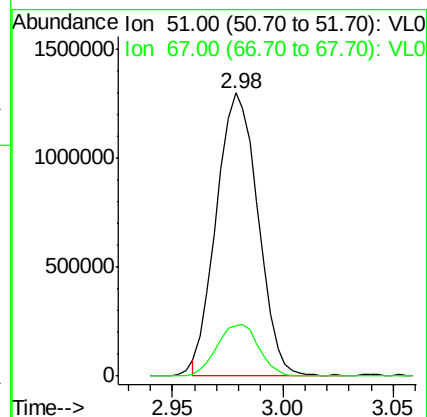
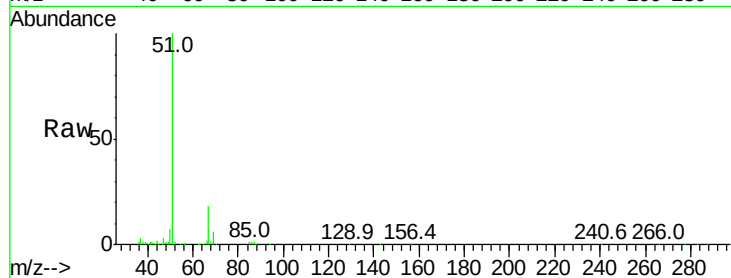
VSTDIC015

Tgt Ion: 51 Resp: 1672094

Ion Ratio Lower Upper

51 100

67 18.4 14.2 21.4



#4

Chloromethane

Concen: 14.139 ppbv

RT: 3.14 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL034126.D

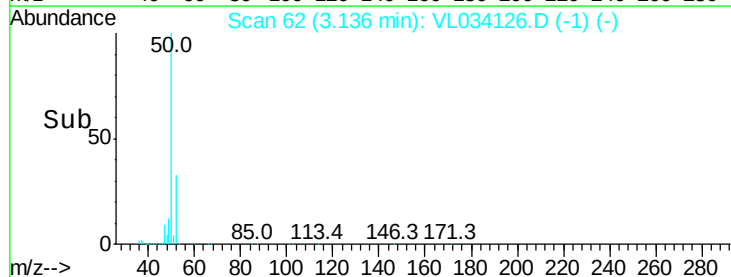
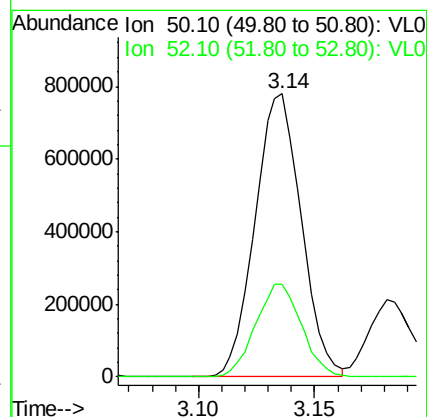
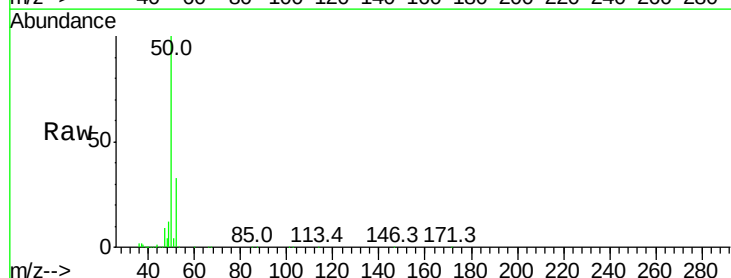
Acq: 5 Sep 2019 6:26

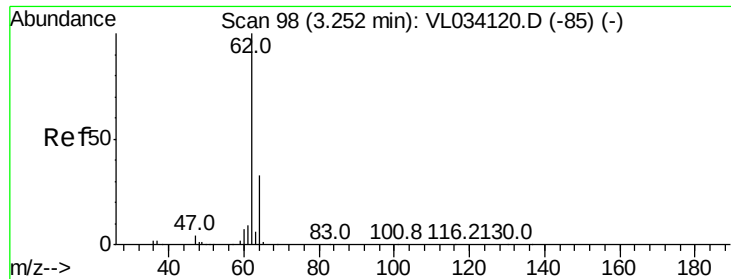
Tgt Ion: 50 Resp: 1084145

Ion Ratio Lower Upper

50 100

52 32.6 27.4 41.2





#5

Vinyl Chloride

Concen: 13.636 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

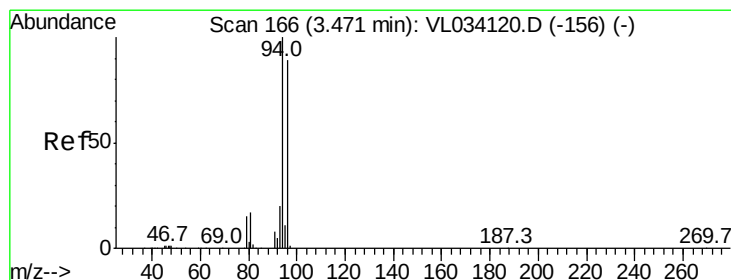
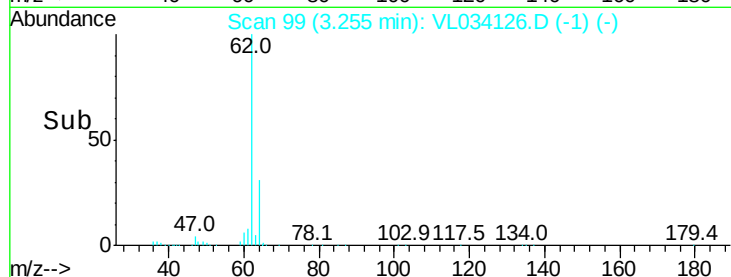
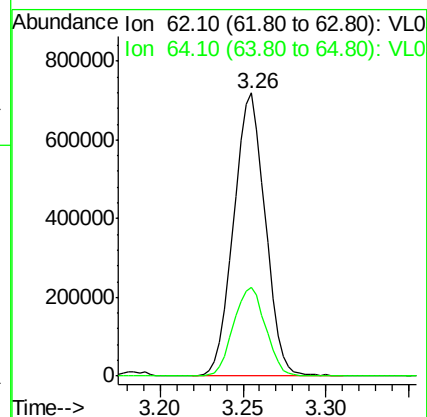
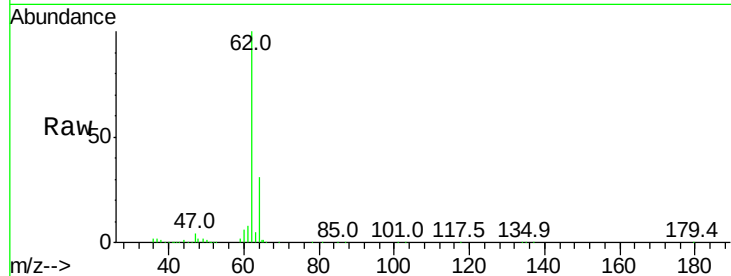
VSTDIC015

Tgt Ion: 62 Resp: 952424

Ion Ratio Lower Upper

62 100

64 31.2 26.6 39.8



#6

Bromomethane

Concen: 14.010 ppbv

RT: 3.47 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL034126.D

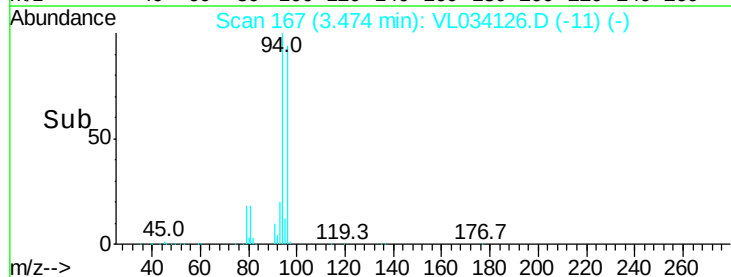
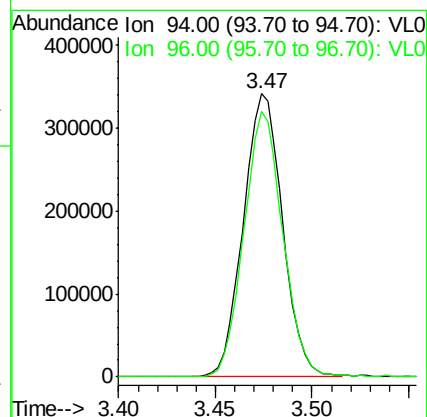
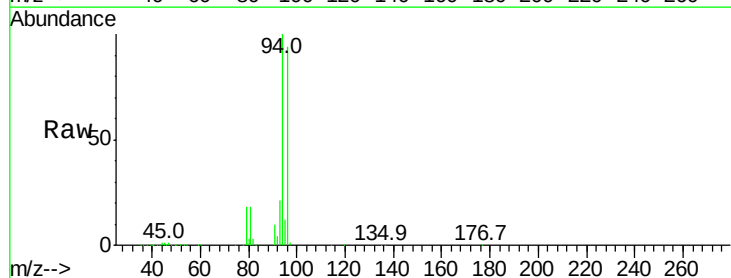
Acq: 5 Sep 2019 6:26

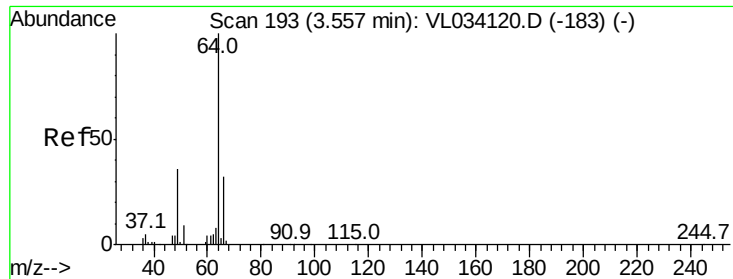
Tgt Ion: 94 Resp: 482934

Ion Ratio Lower Upper

94 100

96 93.8 71.4 107.0





#7

Chloroethane

Concen: 14.338 ppbv

RT: 3.56 min Scan# 194

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

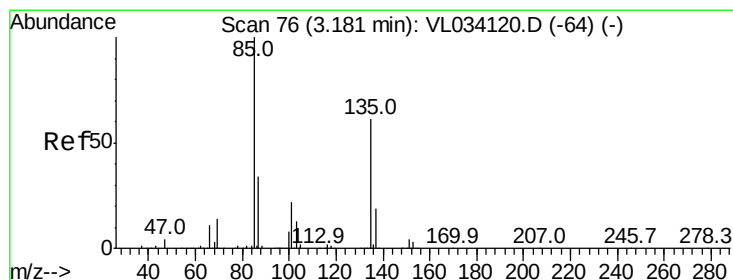
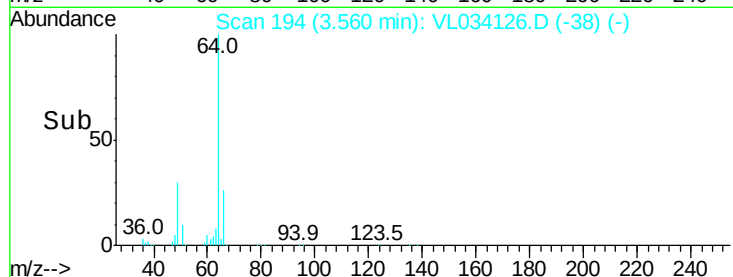
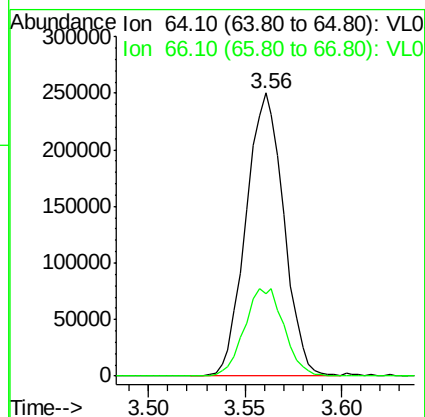
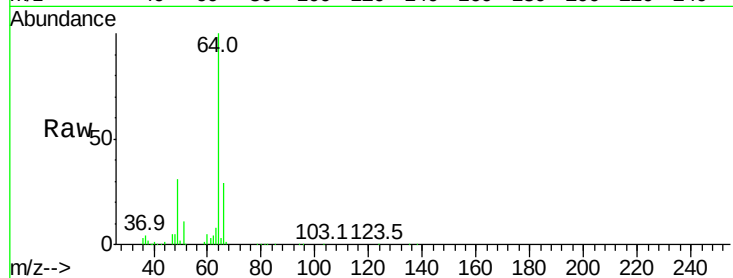
VSTDIC015

Tgt Ion: 64 Resp: 341198

Ion Ratio Lower Upper

64 100

66 28.9 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 12.773 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034126.D

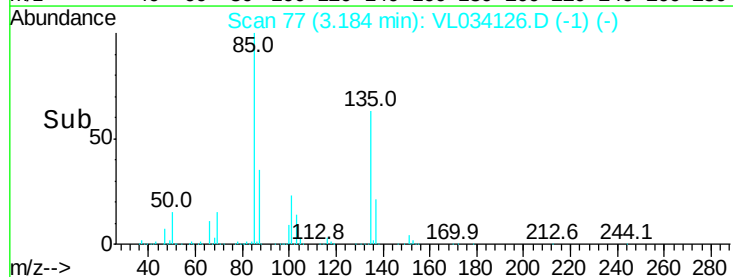
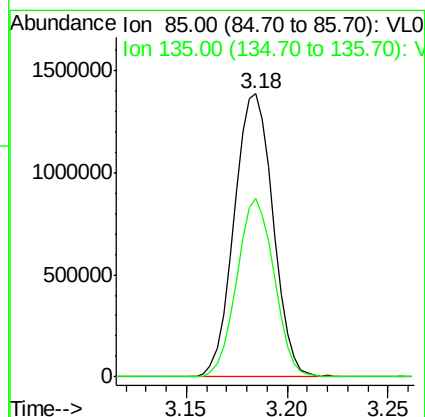
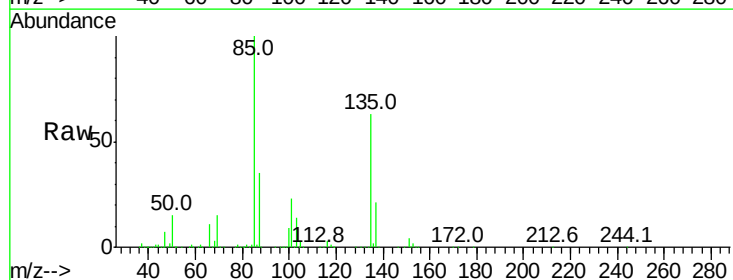
Acq: 5 Sep 2019 6:26

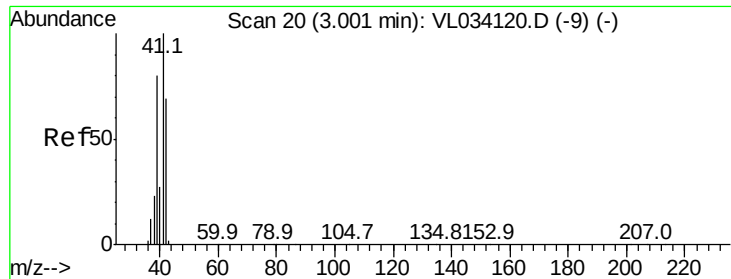
Tgt Ion: 85 Resp: 1865933

Ion Ratio Lower Upper

85 100

135 61.1 48.0 72.0





#9

Propene

Concen: 13.603 ppbv

RT: 3.00 min Scan# 20

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

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ClientSampleId :

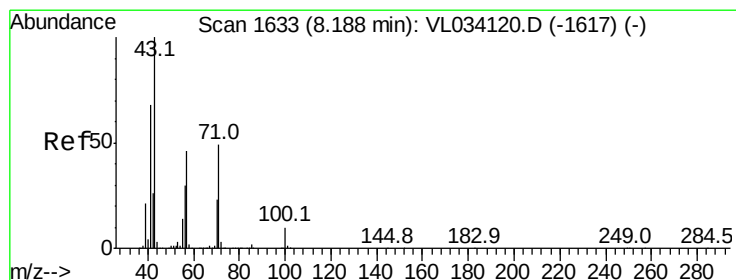
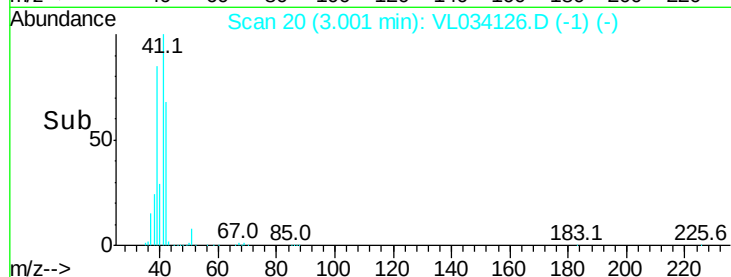
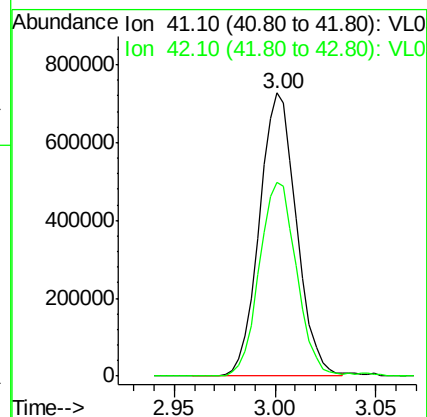
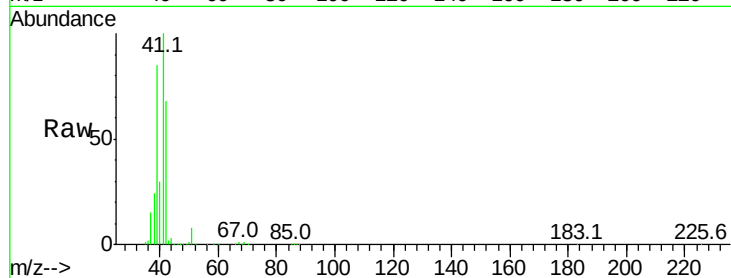
VSTDIC015

Tgt Ion: 41 Resp: 933536

Ion Ratio Lower Upper

41 100

42 69.8 54.6 81.8



#10

Heptane

Concen: 13.481 ppbv

RT: 8.19 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VL034126.D

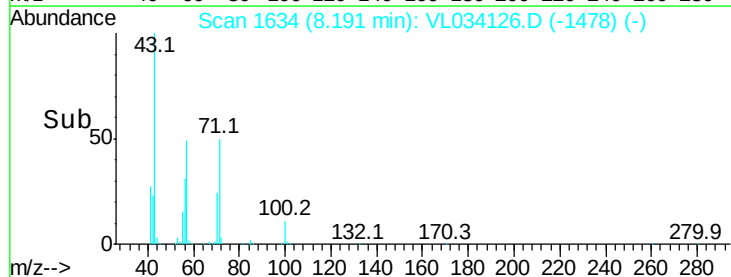
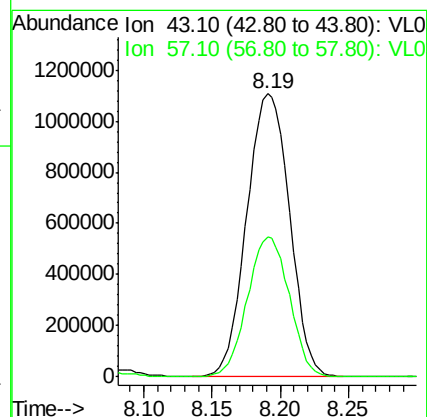
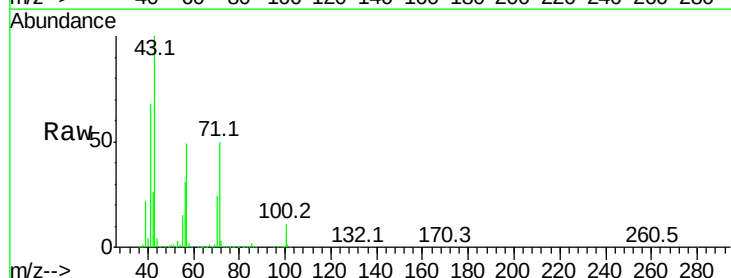
Acq: 5 Sep 2019 6:26

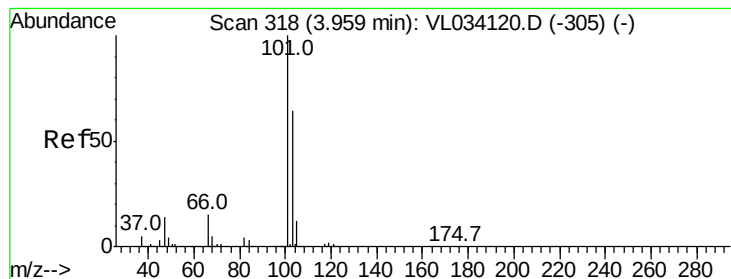
Tgt Ion: 43 Resp: 2400918

Ion Ratio Lower Upper

43 100

57 48.6 38.1 57.1





#11

Trichlorofluoromethane

Concen: 13.291 ppbv

RT: 3.96 min Scan# 319

Delta R.T. 0.00 min

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Acq: 5 Sep 2019 6:26

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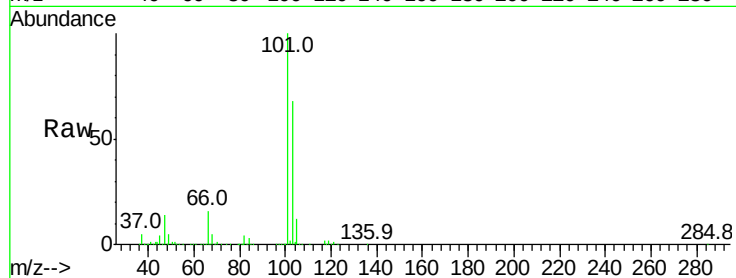
VSTDIC015

Tgt Ion:101 Resp: 1967198

Ion Ratio Lower Upper

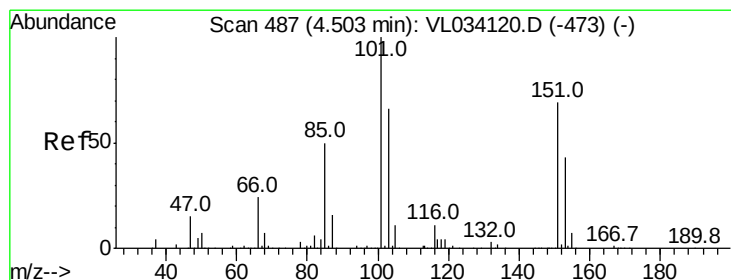
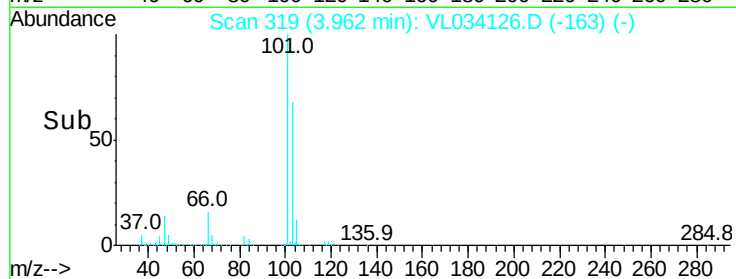
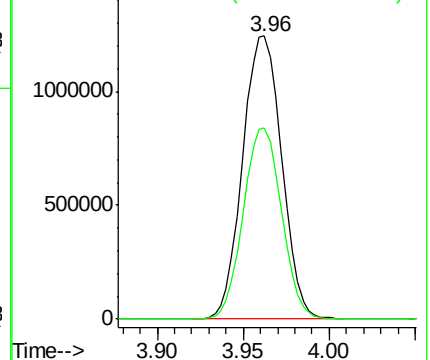
101 100

103 67.6 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 13.526 ppbv

RT: 4.51 min Scan# 489

Delta R.T. 0.01 min

Lab File: VL034126.D

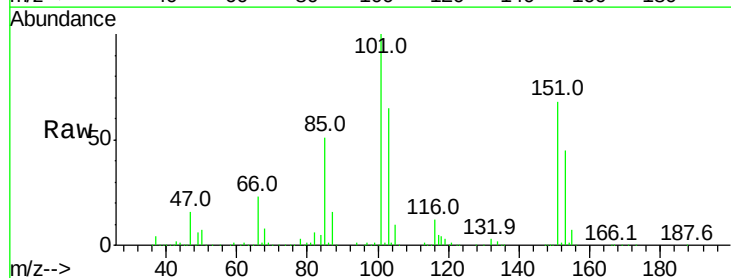
Acq: 5 Sep 2019 6:26

Tgt Ion:101 Resp: 1339354

Ion Ratio Lower Upper

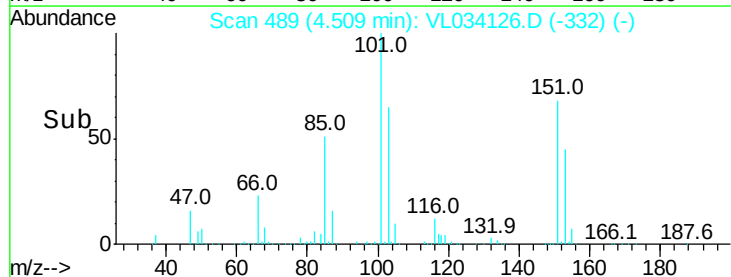
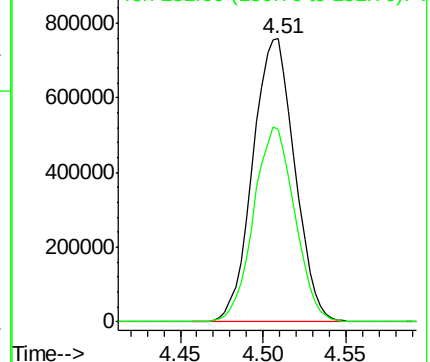
101 100

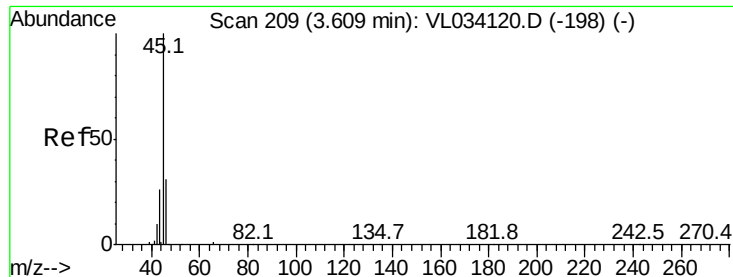
151 67.8 53.0 79.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.267 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

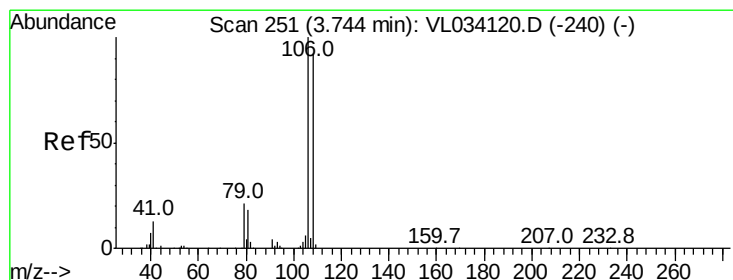
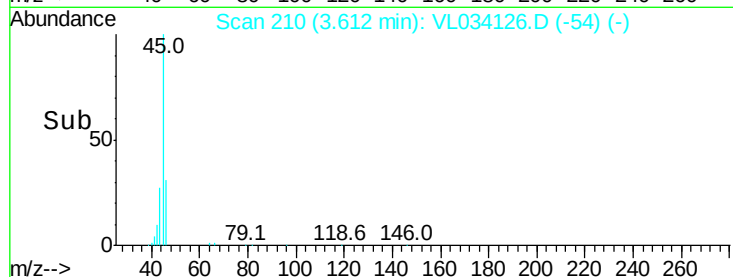
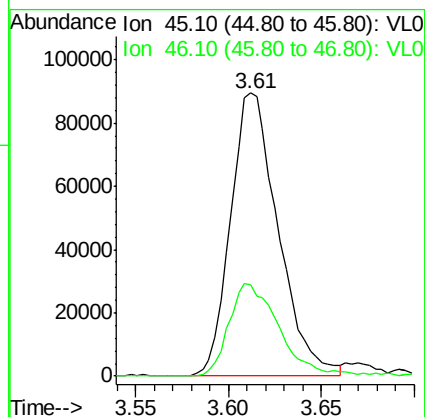
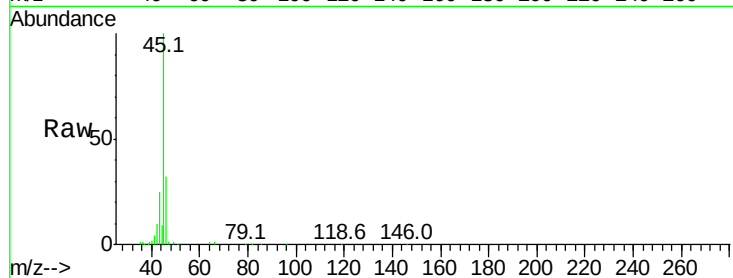
VSTDIC015

Tgt Ion: 45 Resp: 159429

Ion Ratio Lower Upper

45 100

46 35.0 15.0 60.0



#14

Bromoethene

Concen: 13.981 ppbv

RT: 3.75 min Scan# 252

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

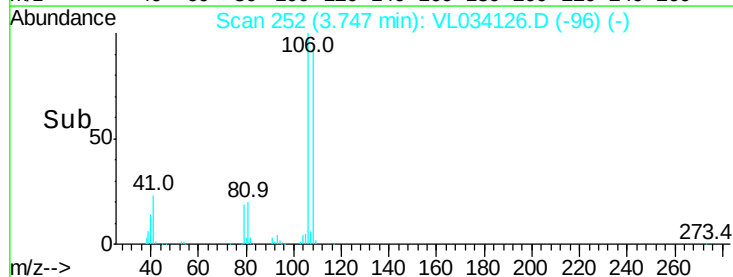
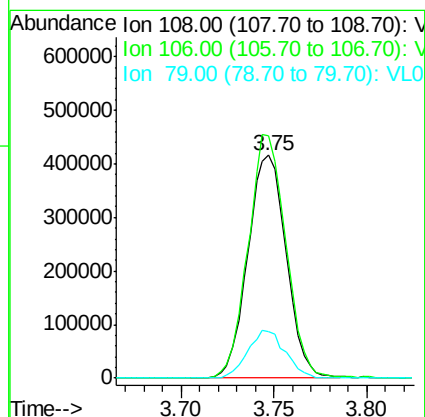
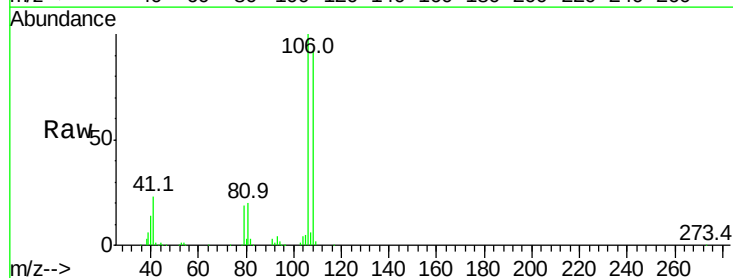
Tgt Ion: 108 Resp: 598551

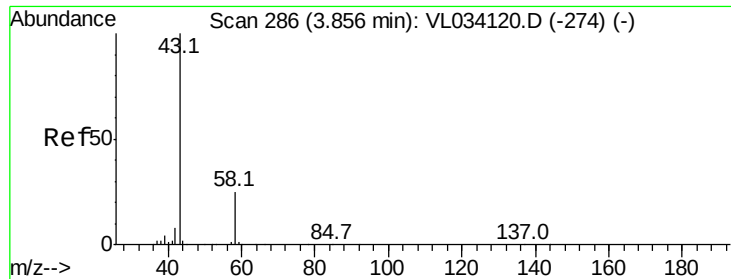
Ion Ratio Lower Upper

108 100

106 108.2 87.2 130.8

79 21.1 16.5 24.7





#15

Acetone

Concen: 12.890 ppbv

RT: 3.86 min Scan# 287

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

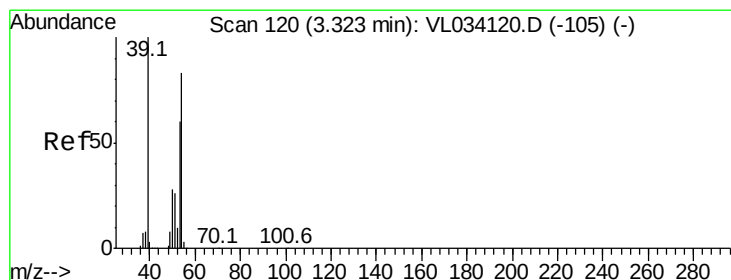
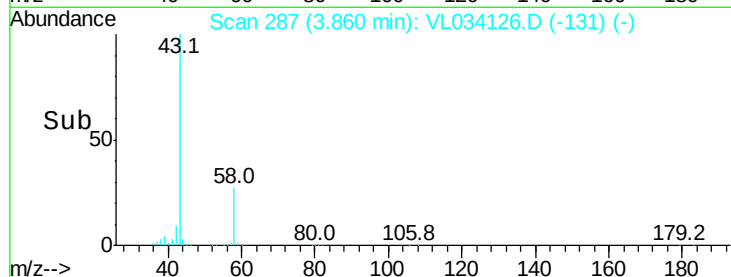
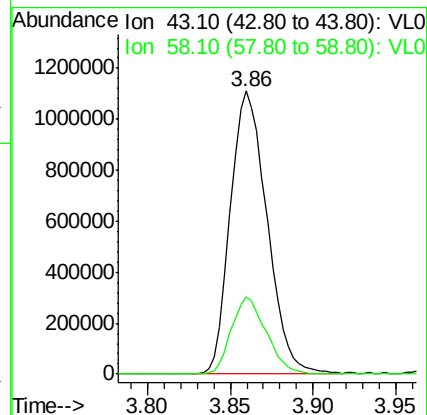
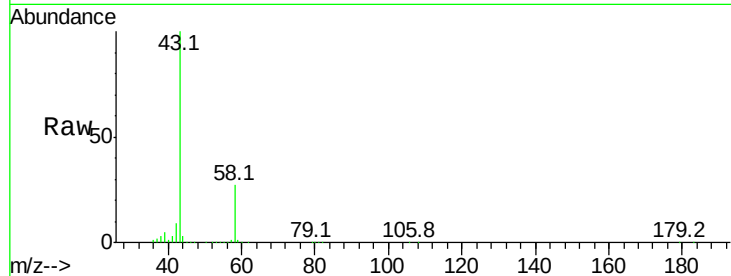
VSTDIC015

Tgt Ion: 43 Resp: 1709408

Ion Ratio Lower Upper

43 100

58 26.1 20.6 30.8



#16

1,3-Butadiene

Concen: 14.089 ppbv

RT: 3.33 min Scan# 121

Delta R.T. 0.00 min

Lab File: VL034126.D

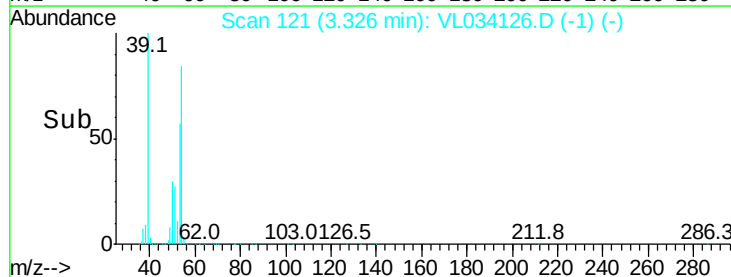
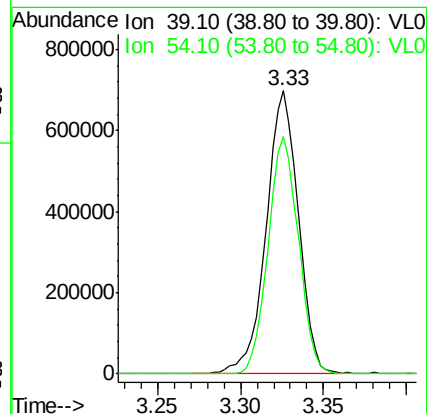
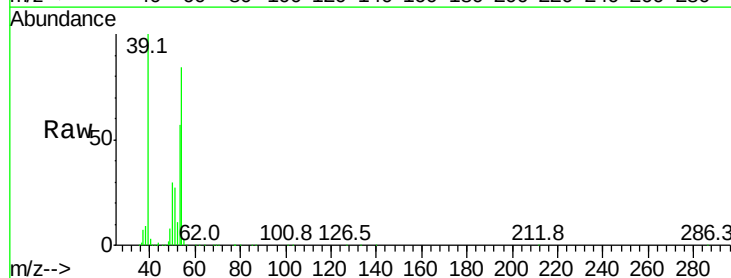
Acq: 5 Sep 2019 6:26

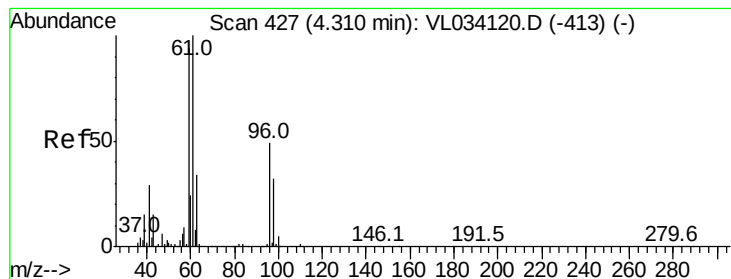
Tgt Ion: 39 Resp: 946219

Ion Ratio Lower Upper

39 100

54 79.4 63.5 95.3





#17

tert-Butyl alcohol

Concen: 11.874 ppbv

RT: 4.32 min Scan# 429

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

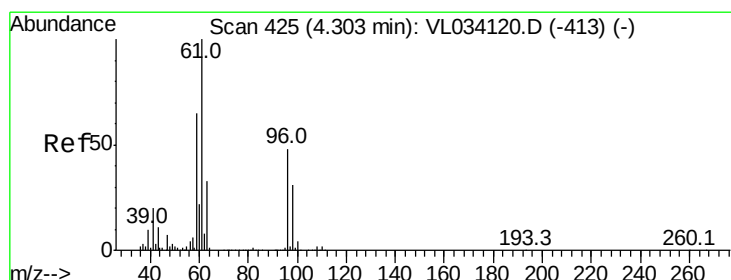
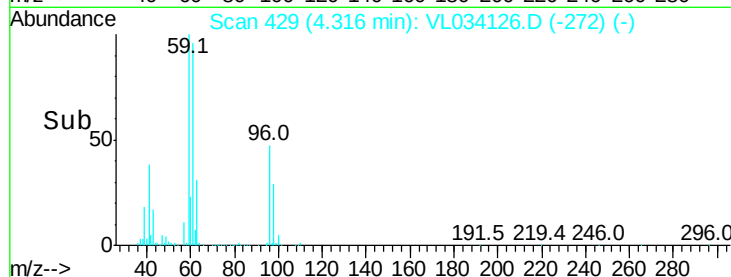
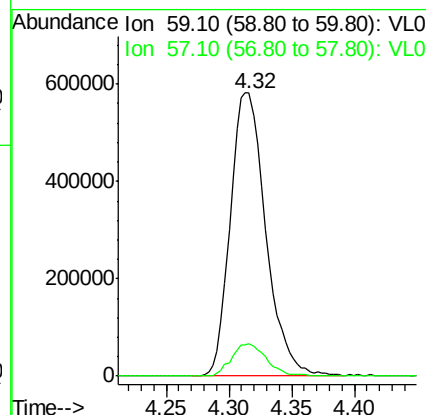
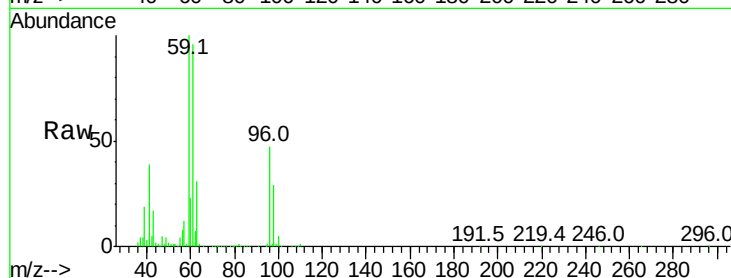
VSTDIC015

Tgt Ion: 59 Resp: 1143093

Ion Ratio Lower Upper

59 100

57 11.3 8.6 12.8



#18

1,1-Dichloroethene

Concen: 14.245 ppbv

RT: 4.31 min Scan# 426

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

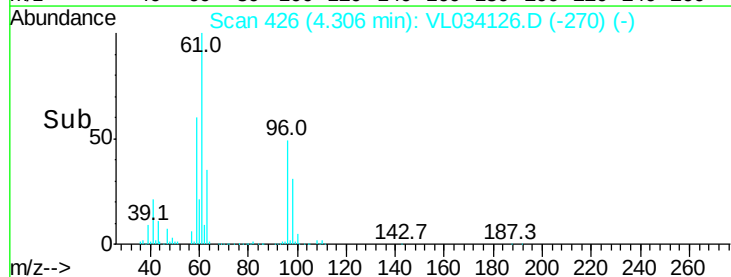
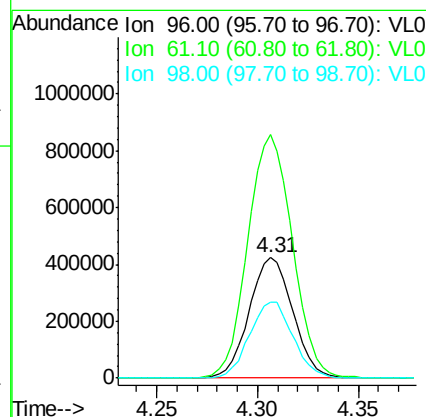
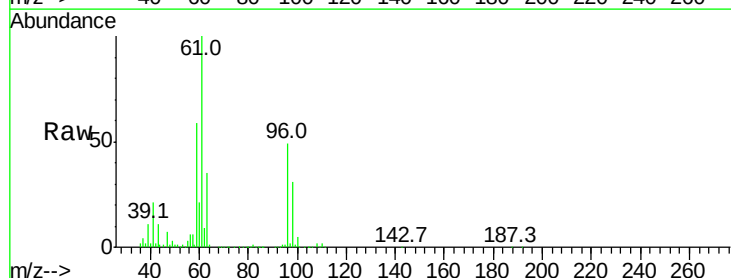
Tgt Ion: 96 Resp: 643599

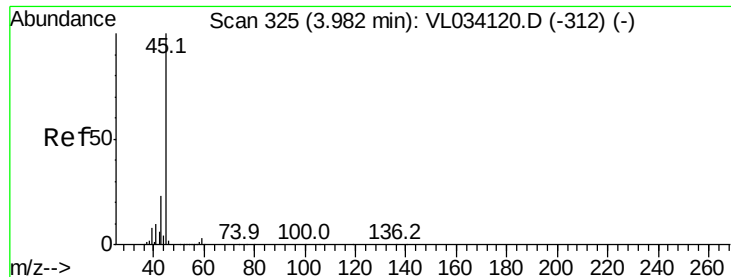
Ion Ratio Lower Upper

96 100

61 202.2 165.8 248.8

98 63.3 50.8 76.2





#19

Isopropyl Alcohol

Concen: 11.722 ppbv

RT: 3.98 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

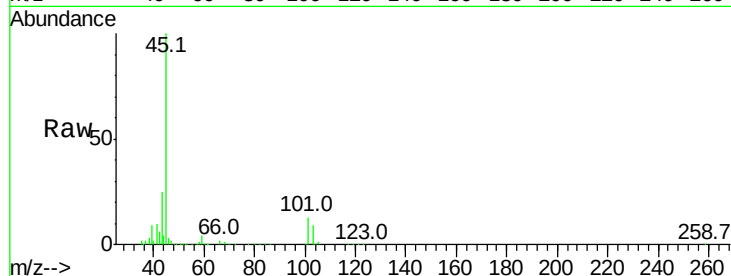
VSTDIC015

Tgt Ion: 45 Resp: 1046006

Ion Ratio Lower Upper

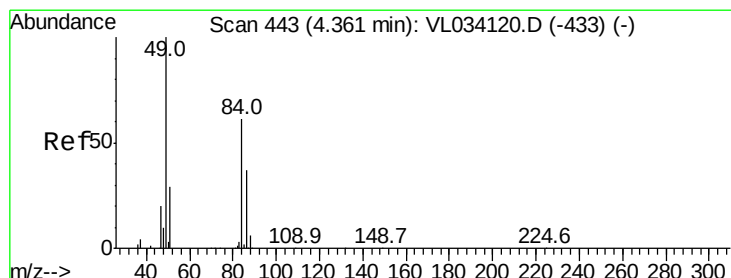
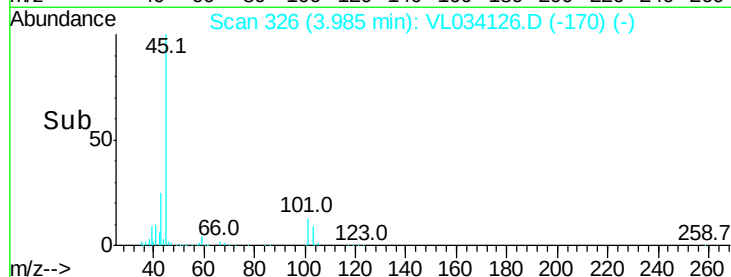
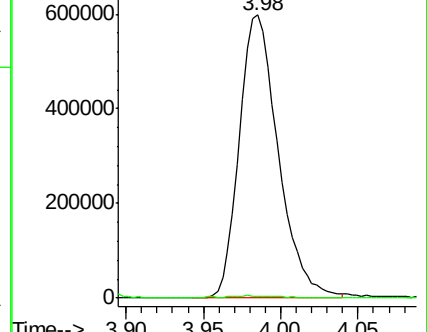
45 100

58 1.3 1.0 1.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 13.131 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion: 84 Resp: 575740

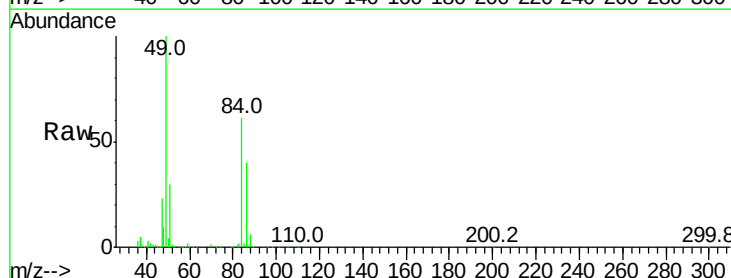
Ion Ratio Lower Upper

84 100

49 161.9 131.0 196.6

51 48.6 38.1 57.1

86 64.7 49.0 73.6

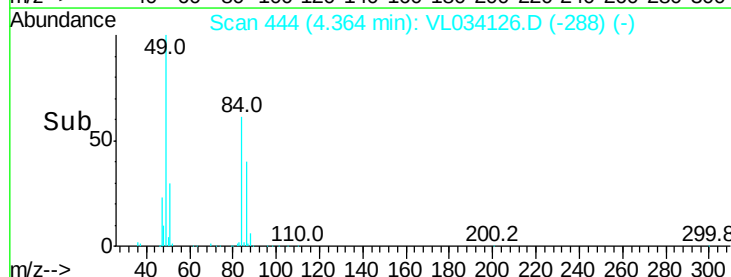
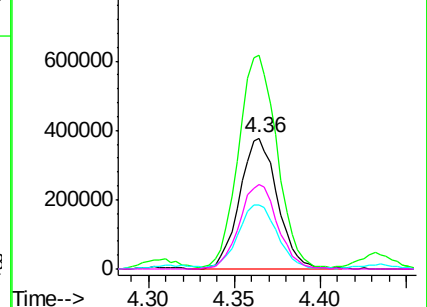


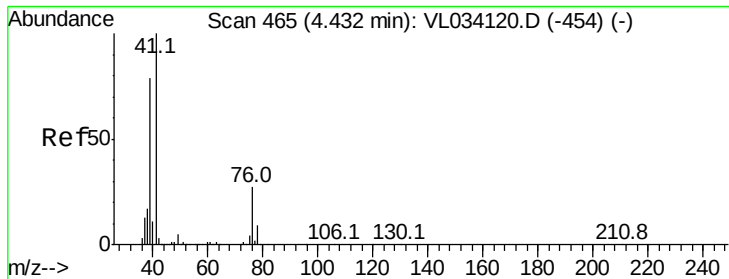
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

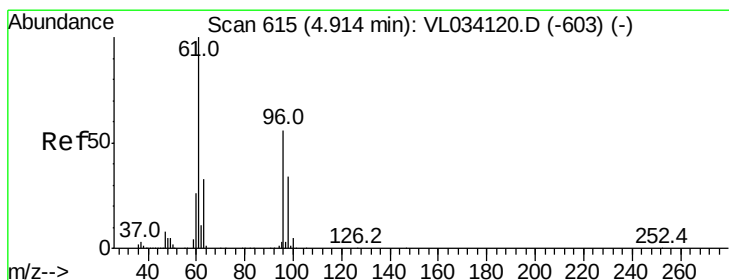
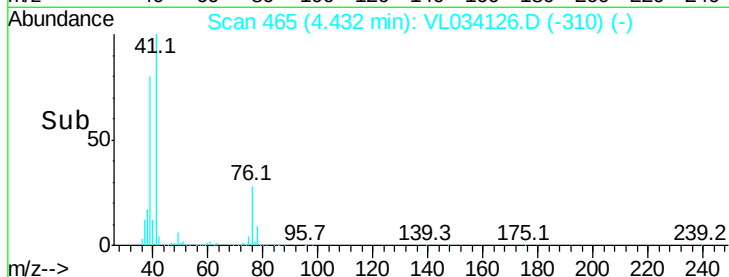
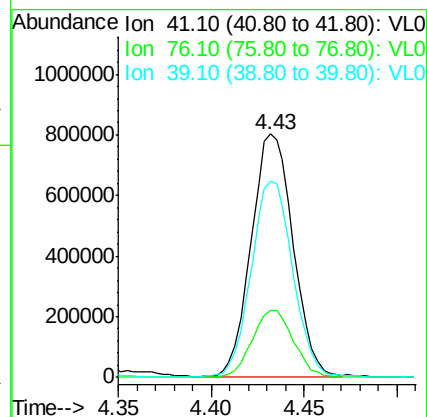
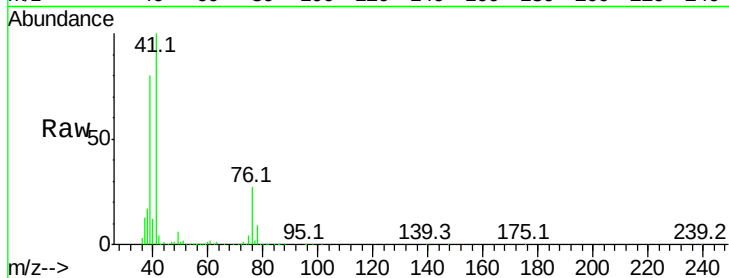




#21
 Allyl Chloride
 Concen: 14.426 ppbv
 RT: 4.43 min Scan# 465
 Delta R.T. -0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

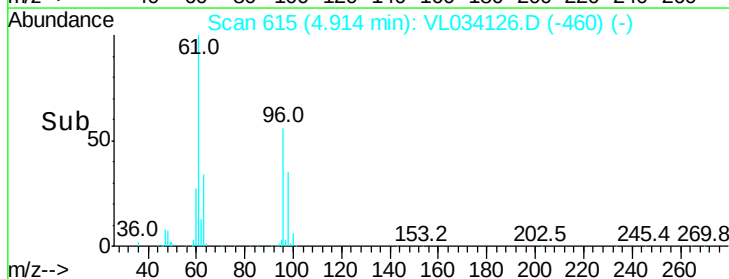
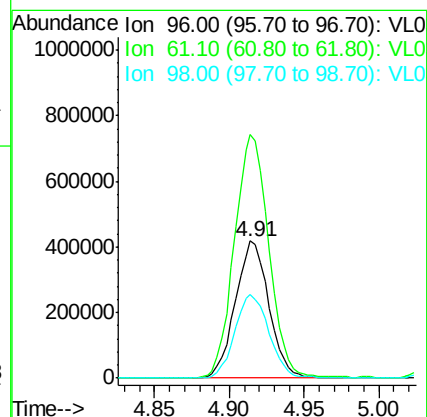
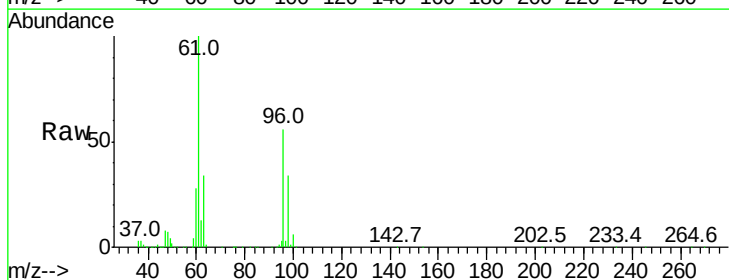
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

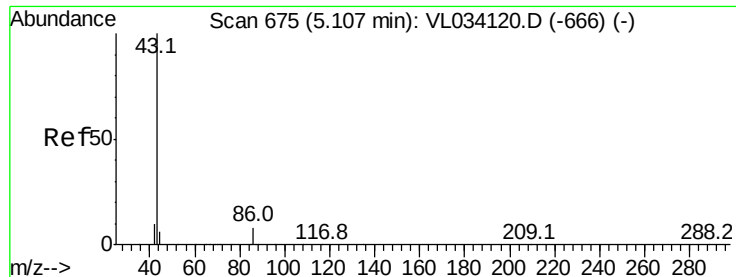
Tgt Ion: 41 Resp: 1261225
 Ion Ratio Lower Upper
 41 100
 76 27.4 21.6 32.4
 39 80.7 65.0 97.4



#22
 trans-1,2-Dichloroethene
 Concen: 14.436 ppbv
 RT: 4.91 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Tgt Ion: 96 Resp: 653710
 Ion Ratio Lower Upper
 96 100
 61 177.9 143.1 214.7
 98 61.2 49.0 73.4





#23

Vinyl Acetate

Concen: 13.788 ppbv

RT: 5.11 min Scan# 675

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3102052

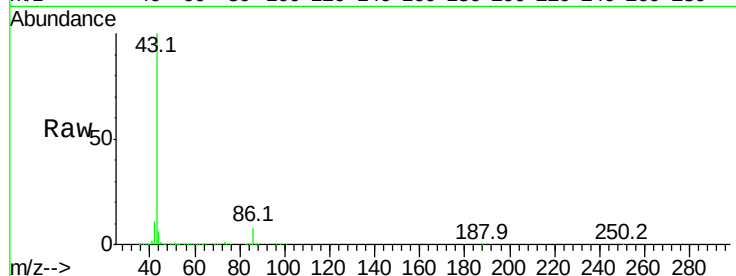
Ion Ratio Lower Upper

43 100

86 7.5 5.5 8.3

42 10.7 8.2 12.4

44 5.6 4.3 6.5

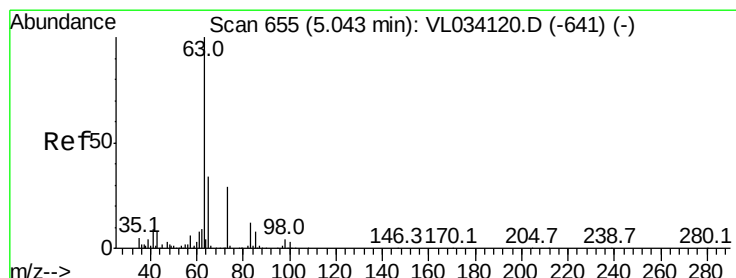
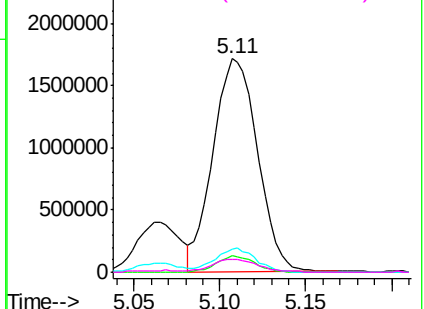
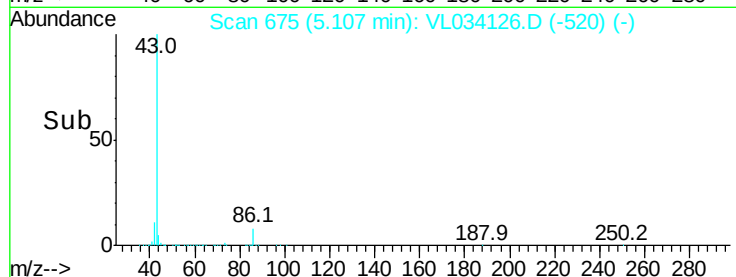


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 13.341 ppbv

RT: 5.04 min Scan# 655

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

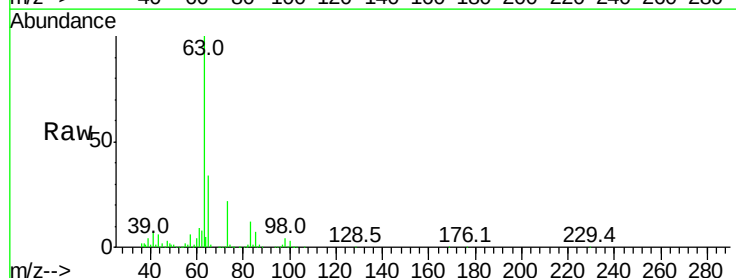
Tgt Ion: 63 Resp: 1992106

Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.2

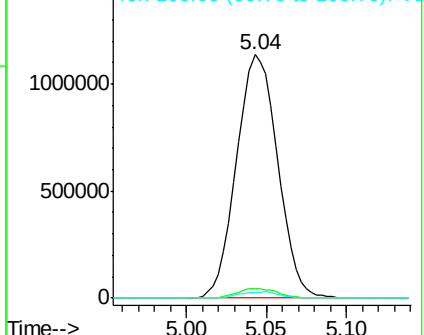
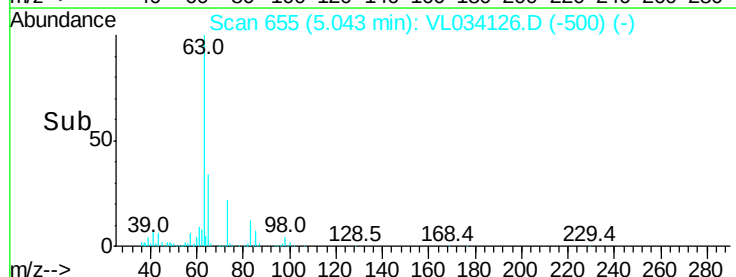
100 2.5 1.4 4.0

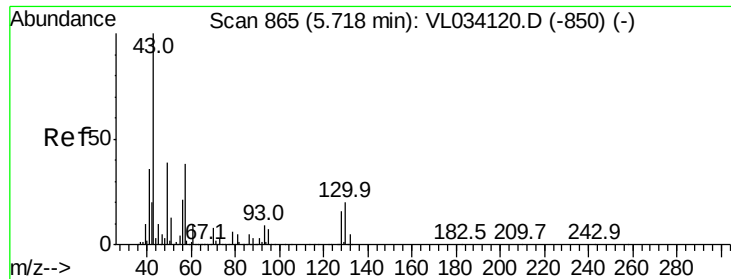


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 12.421 ppbv

RT: 5.72 min Scan# 866

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3613313

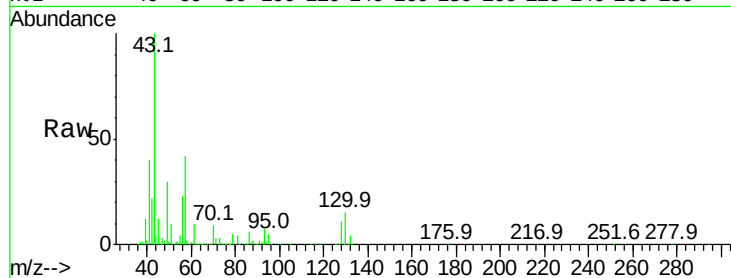
Ion Ratio Lower Upper

43 100

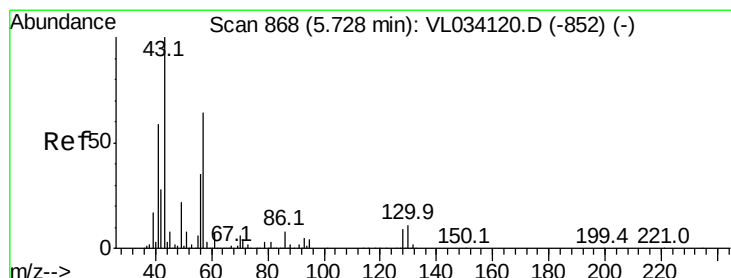
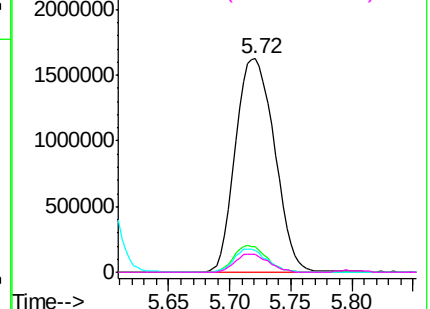
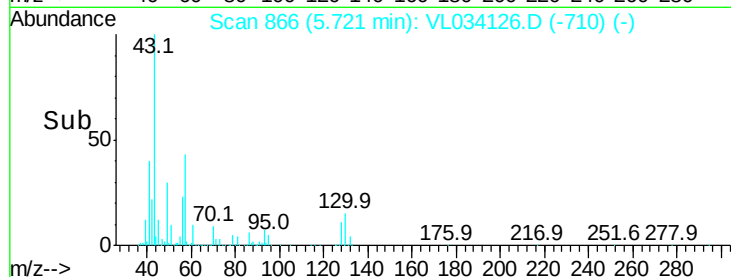
45 10.7 8.2 12.4

61 9.2 7.4 11.2

70 7.4 5.6 8.4



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: 12.282 ppbv

RT: 5.73 min Scan# 869

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion: 57 Resp: 1589596

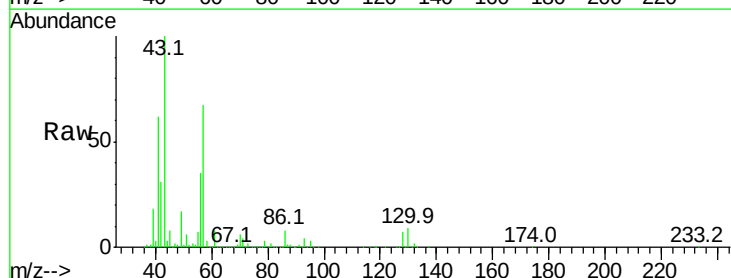
Ion Ratio Lower Upper

57 100

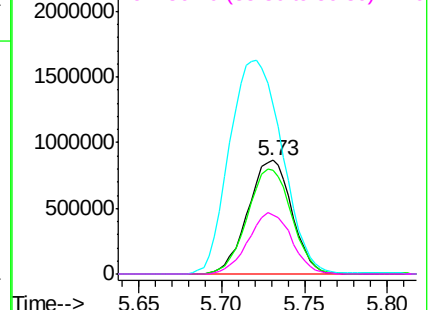
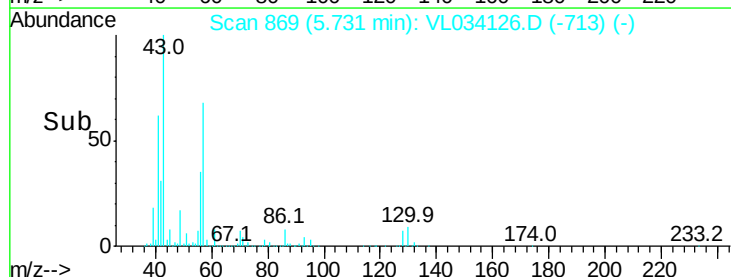
41 94.1 76.6 115.0

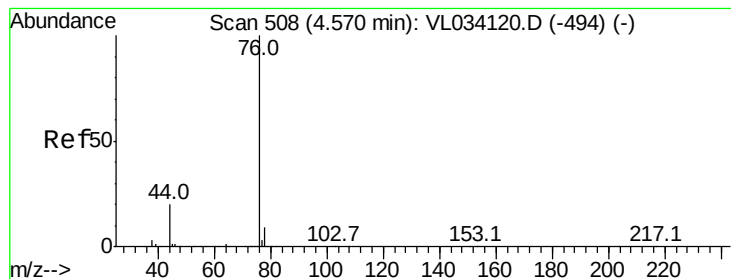
43 227.7 189.2 283.8

56 53.5 43.0 64.4



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: 14.835 ppbv

RT: 4.57 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

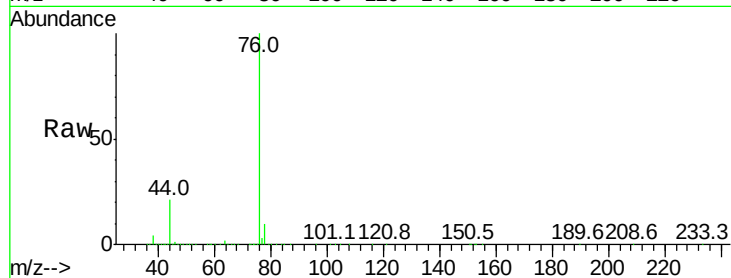
Tgt Ion: 76 Resp: 1728386

Ion	Ratio	Lower	Upper
76	100		
44	21.6	17.6	26.4
78	9.7	7.3	10.9

76 100

44 21.6 17.6 26.4

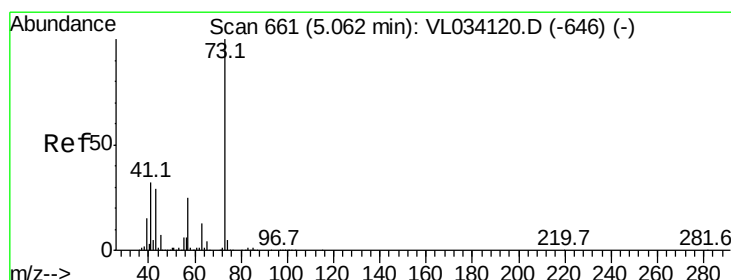
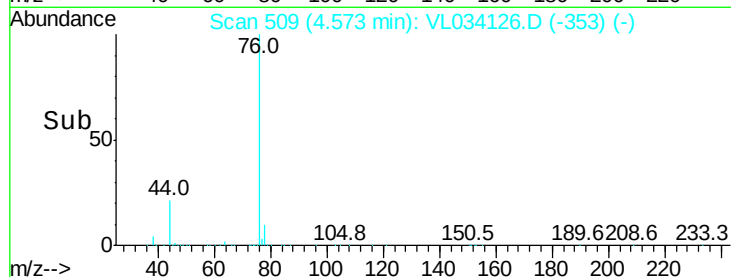
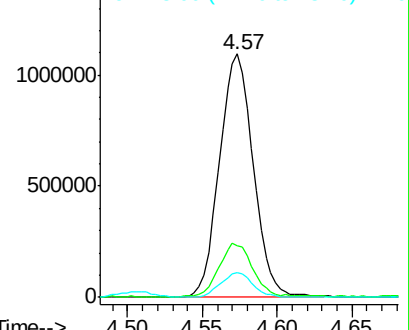
78 9.7 7.3 10.9



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: 13.215 ppbv

RT: 5.07 min Scan# 662

Delta R.T. 0.00 min

Lab File: VL034126.D

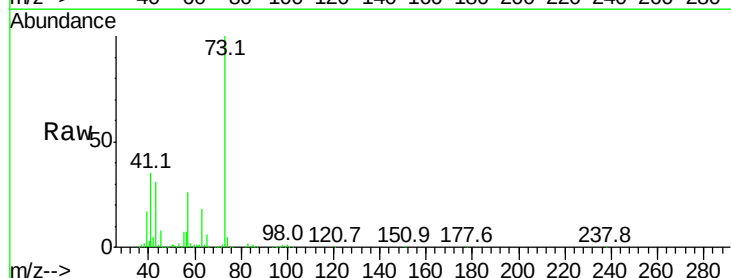
Acq: 5 Sep 2019 6:26

Tgt Ion: 73 Resp: 2505849

Ion	Ratio	Lower	Upper
73	100		
57	25.5	19.8	29.8

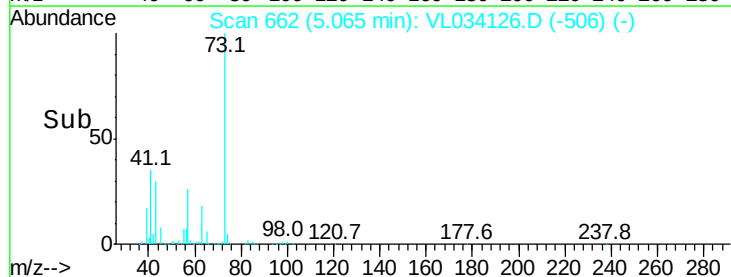
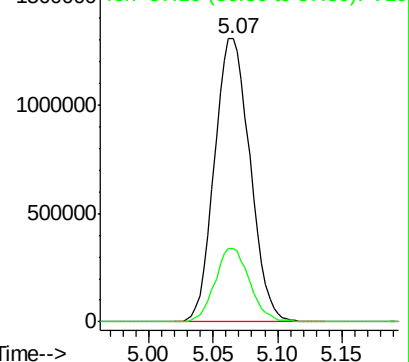
73 100

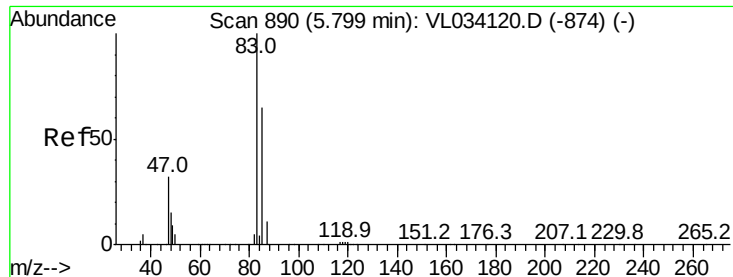
57 25.5 19.8 29.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 13.372 ppbv

RT: 5.80 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

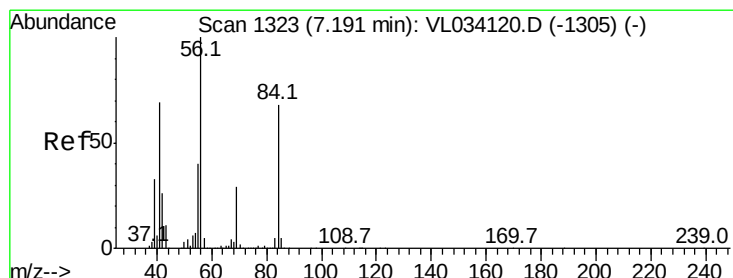
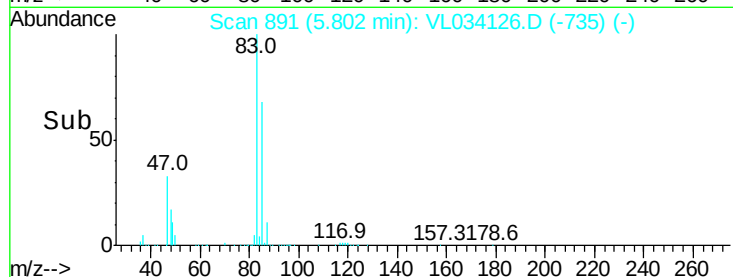
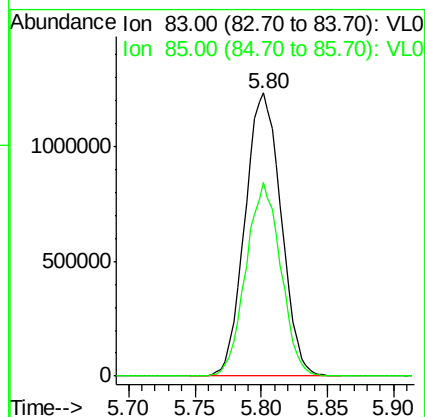
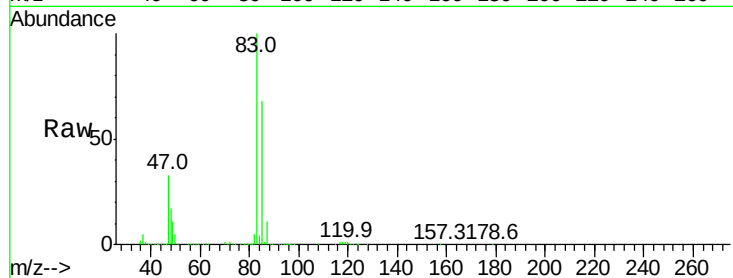
VSTDIC015

Tgt Ion: 83 Resp: 2334335

Ion Ratio Lower Upper

83 100

85 68.2 51.8 77.6



#30

Cyclohexane

Concen: 14.031 ppbv

RT: 7.19 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

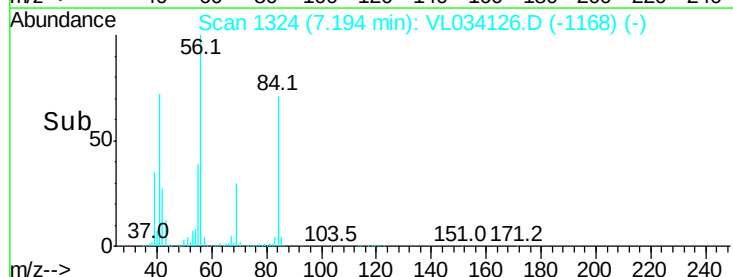
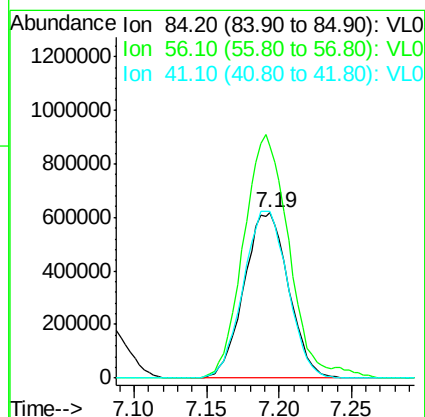
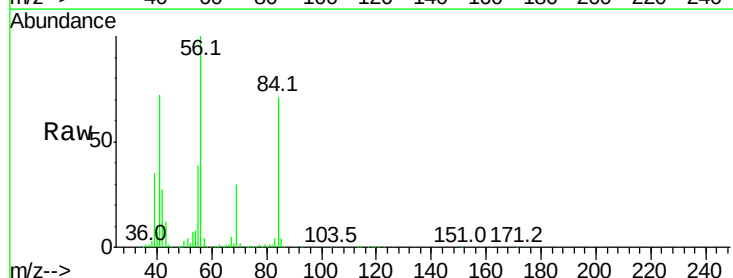
Tgt Ion: 84 Resp: 1312817

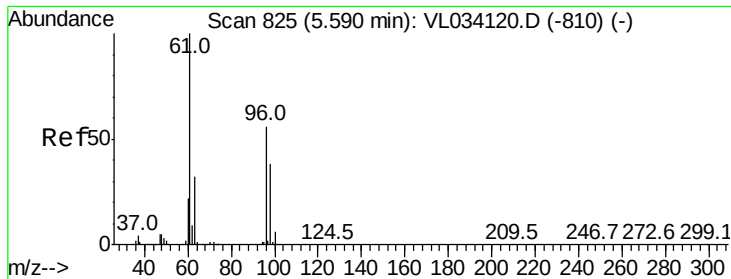
Ion Ratio Lower Upper

84 100

56 151.7 122.6 183.8

41 101.8 79.1 118.7





#31

cis-1,2-Dichloroethene

Concen: 13.914 ppbv

RT: 5.59 min Scan# 826

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

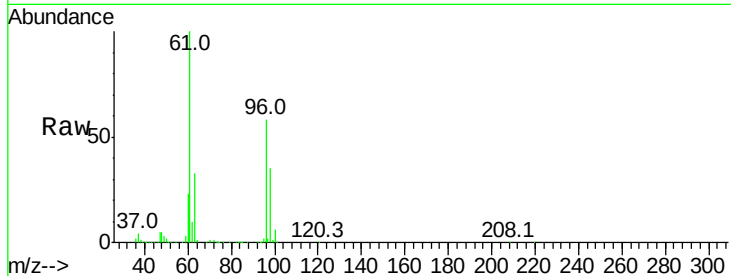
Tgt Ion: 61 Resp: 1724514

Ion Ratio Lower Upper

61 100

96 57.7 44.4 66.6

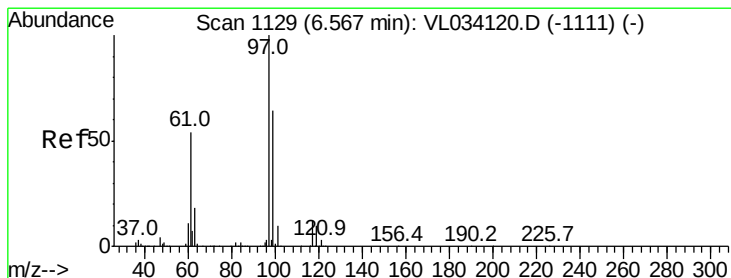
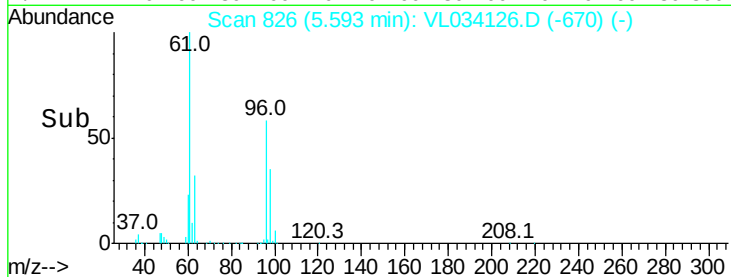
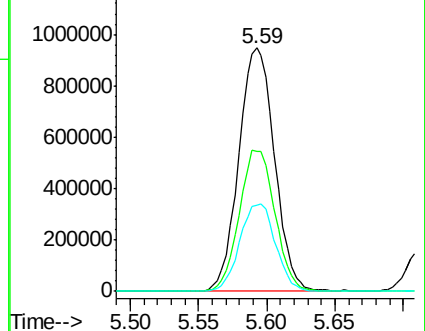
98 35.2 30.0 45.0



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: 13.584 ppbv

RT: 6.57 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

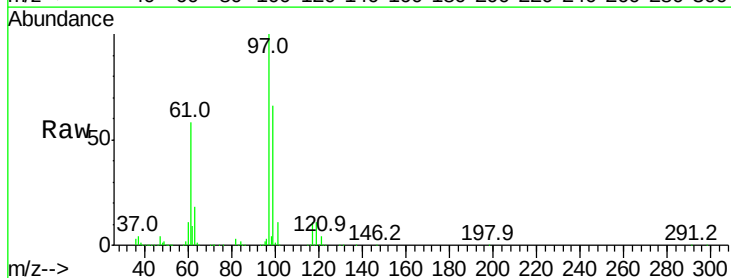
Tgt Ion: 97 Resp: 2227209

Ion Ratio Lower Upper

97 100

99 65.3 51.7 77.5

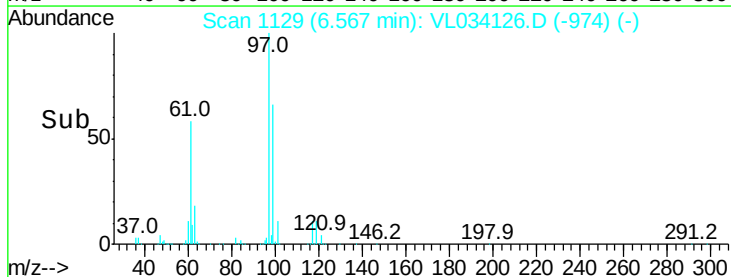
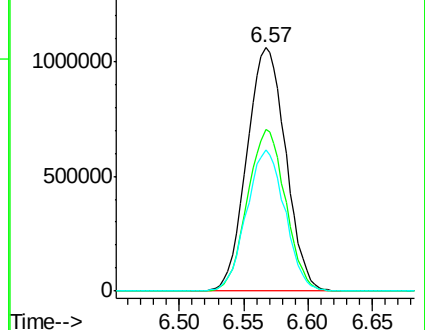
61 57.6 44.0 66.0

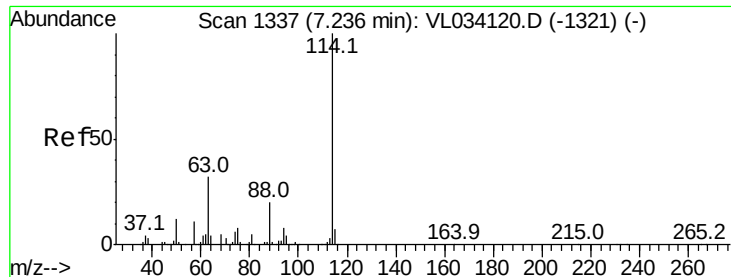


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 7.24 min Scan# 1338

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

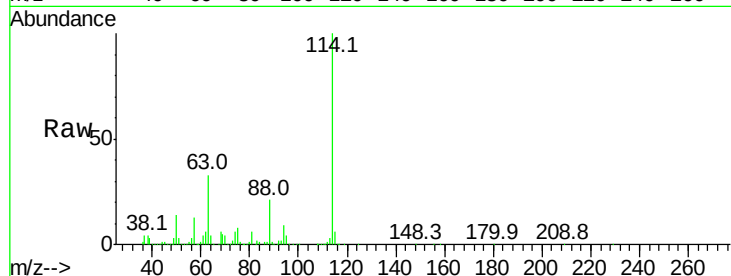
Tgt Ion:114 Resp: 2162395

Ion Ratio Lower Upper

114 100

63 32.5 25.5 38.3

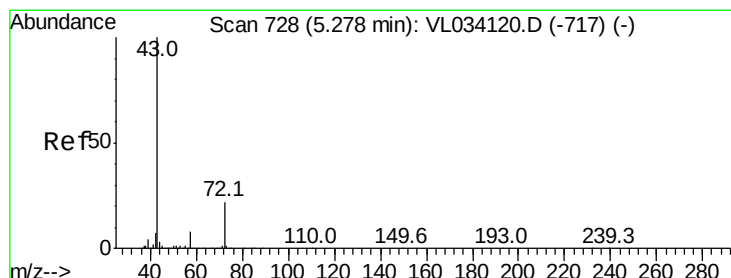
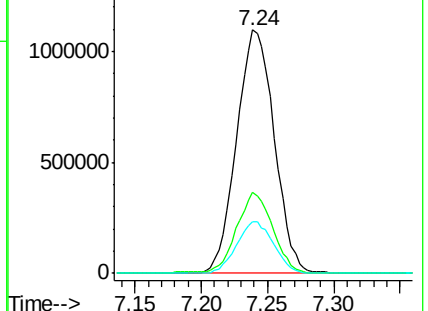
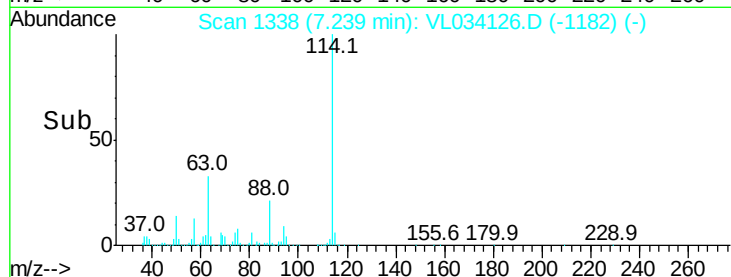
88 20.8 16.8 25.2



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: 12.735 ppbv

RT: 5.28 min Scan# 729

Delta R.T. 0.00 min

Lab File: VL034126.D

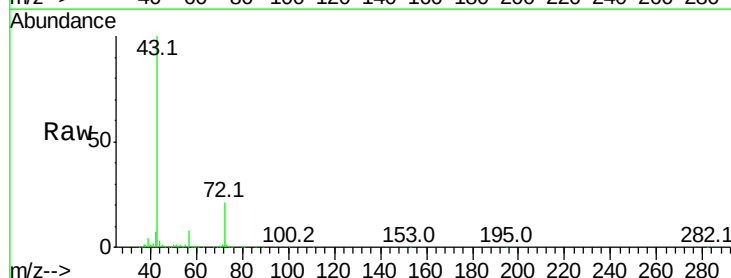
Acq: 5 Sep 2019 6:26

Tgt Ion: 43 Resp: 2647338

Ion Ratio Lower Upper

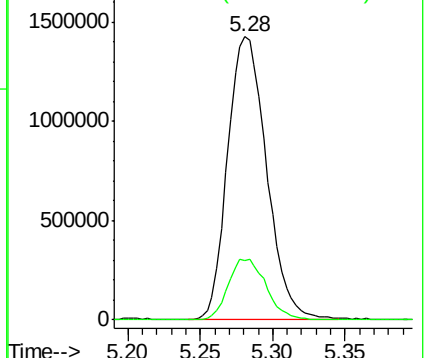
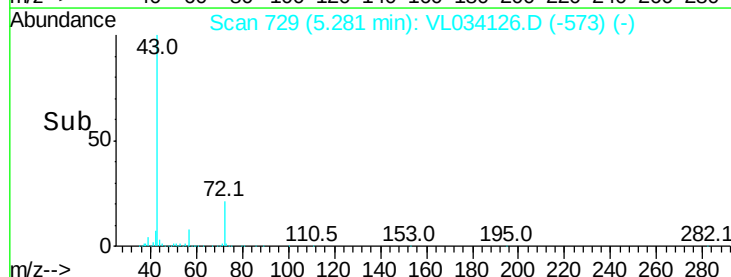
43 100

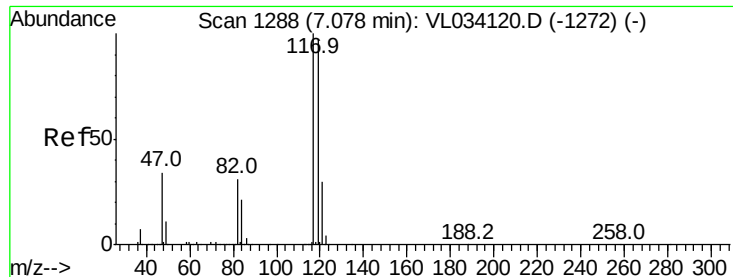
72 21.2 16.5 24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 12.802 ppbv

RT: 7.08 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

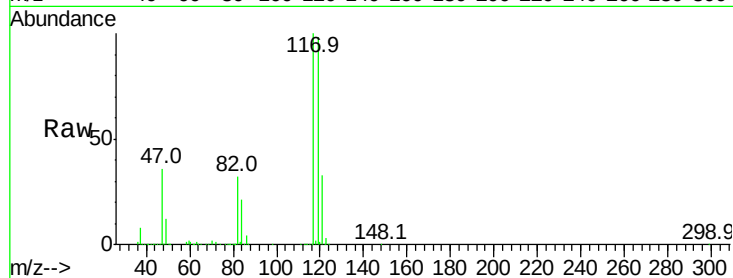
Tgt Ion:117 Resp: 2140305

Ion Ratio Lower Upper

117 100

119 97.8 77.2 115.8

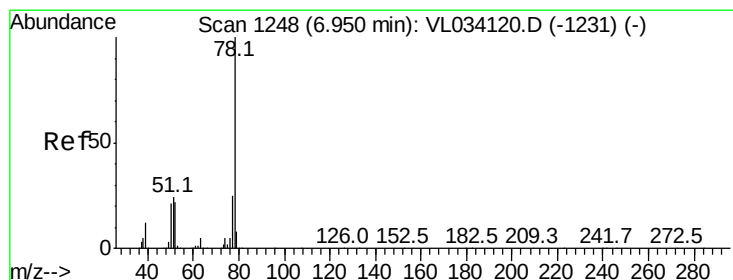
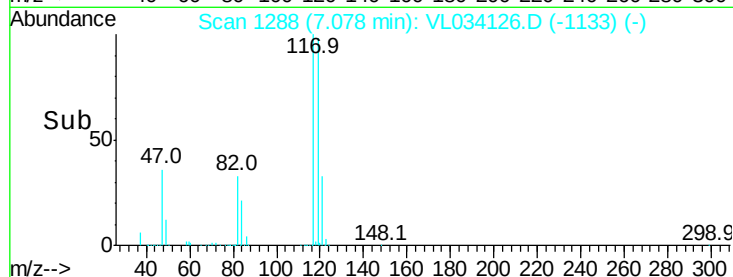
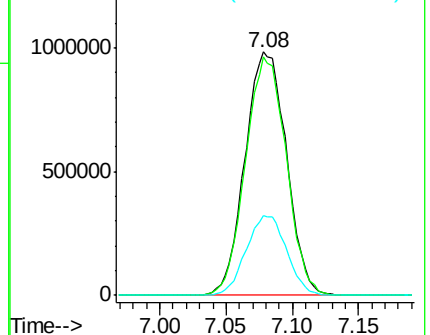
121 32.7 24.2 36.4



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: 12.504 ppbv

RT: 6.95 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

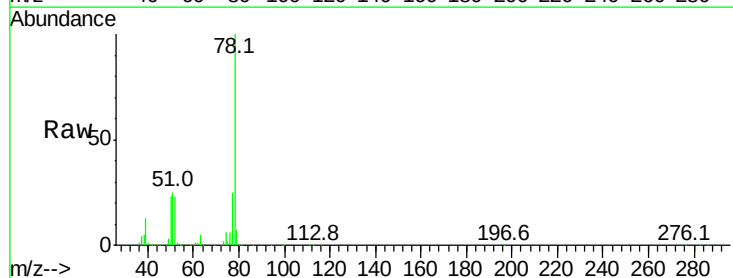
Tgt Ion: 78 Resp: 3090620

Ion Ratio Lower Upper

78 100

77 25.2 20.3 30.5

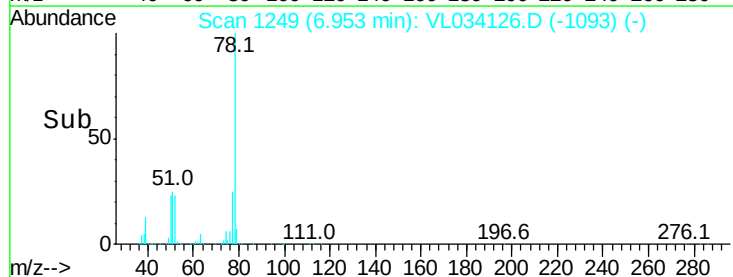
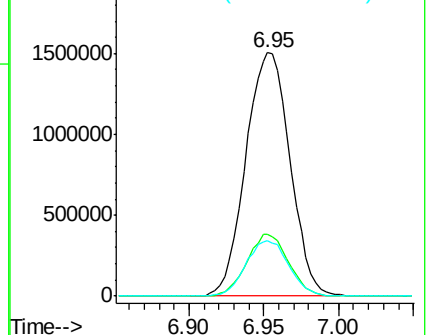
50 22.7 16.9 25.3

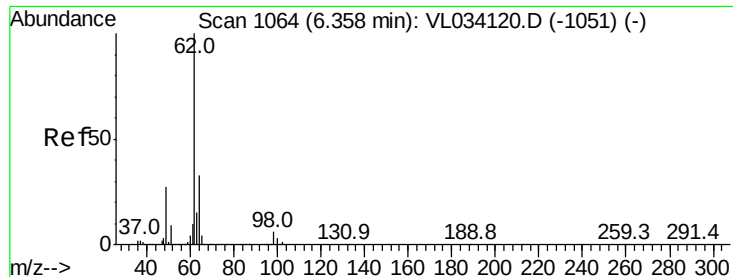


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

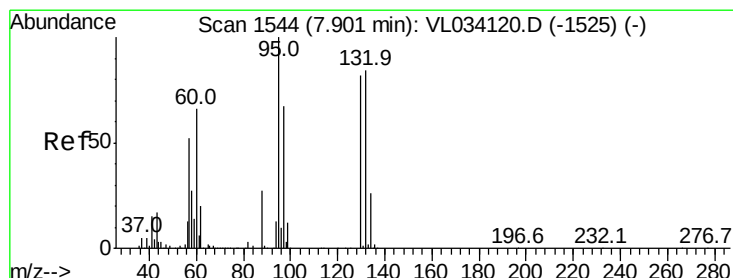
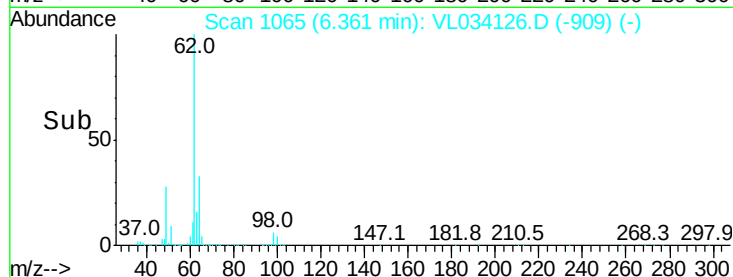
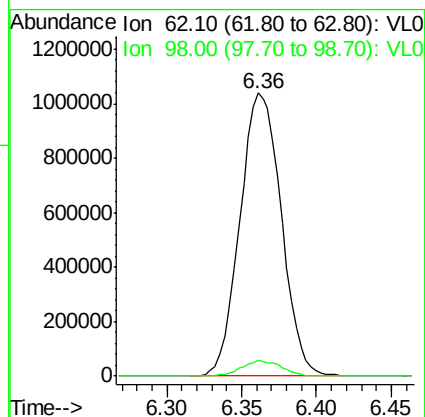
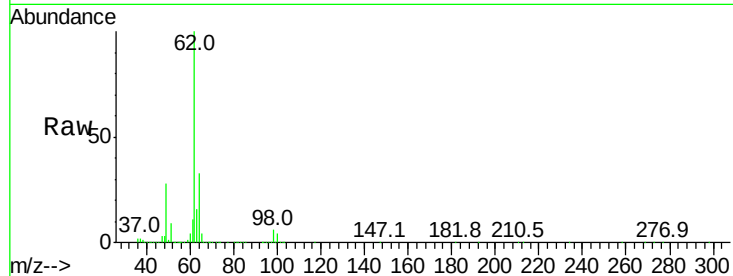




#37
 1,2-Dichloroethane
 Concen: 13.175 ppbv
 RT: 6.36 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

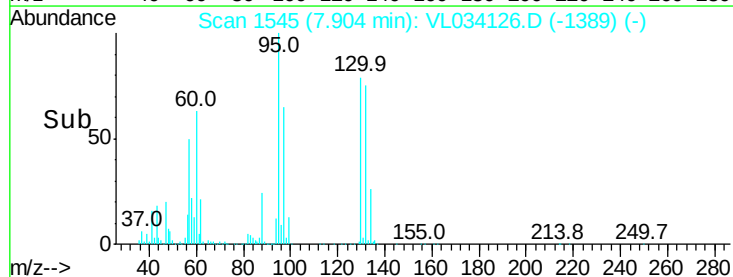
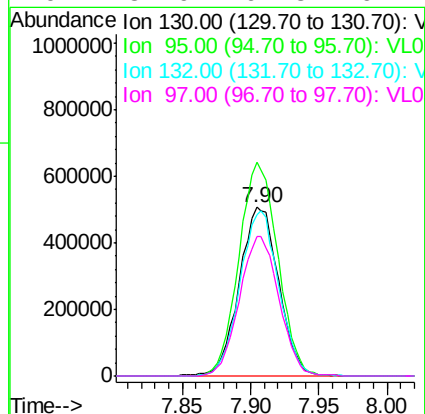
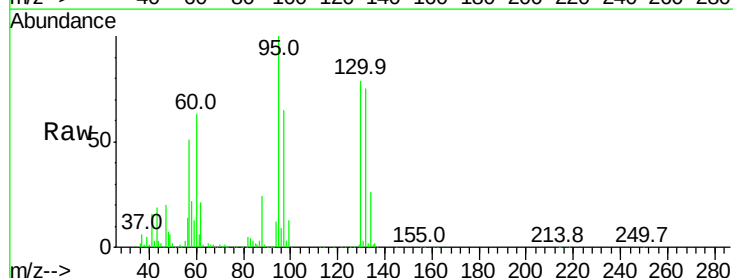
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

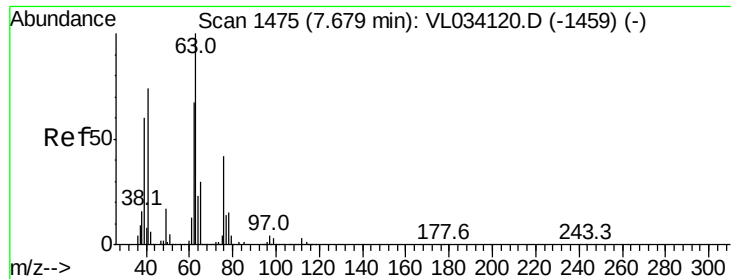
Tgt Ion: 62 Resp: 1995262
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.4 6.6



#38
 Trichloroethene
 Concen: 11.070 ppbv
 RT: 7.90 min Scan# 1545
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Tgt Ion: 130 Resp: 1011900
 Ion Ratio Lower Upper
 130 100
 95 126.7 97.2 145.8
 132 95.6 81.4 122.2
 97 82.9 64.8 97.2





#39

1,2-Dichloropropane

Concen: 13.039 ppbv

RT: 7.68 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

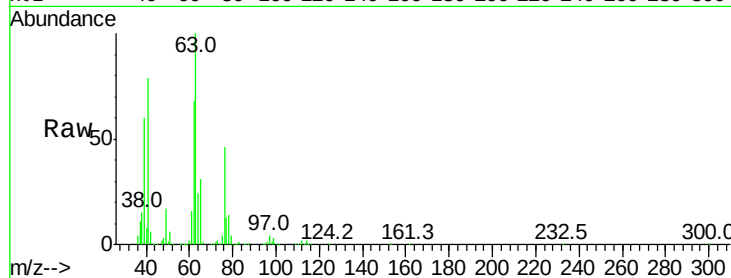
Tgt Ion: 63 Resp: 1379980

Ion Ratio Lower Upper

63 100

41 78.8 59.3 88.9

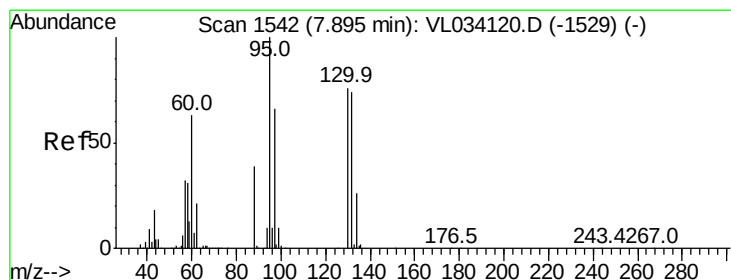
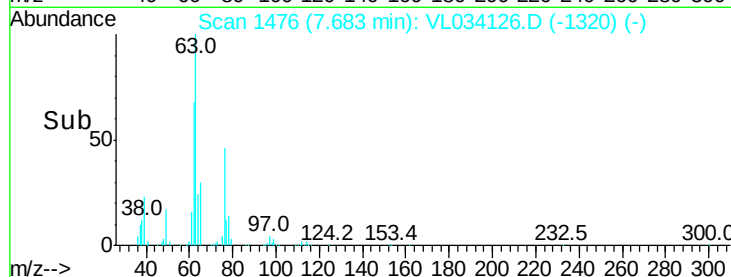
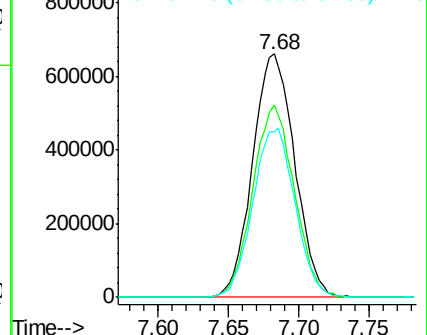
62 67.7 53.8 80.6



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: 10.621 ppbv

RT: 7.89 min Scan# 1542

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion: 88 Resp: 414588

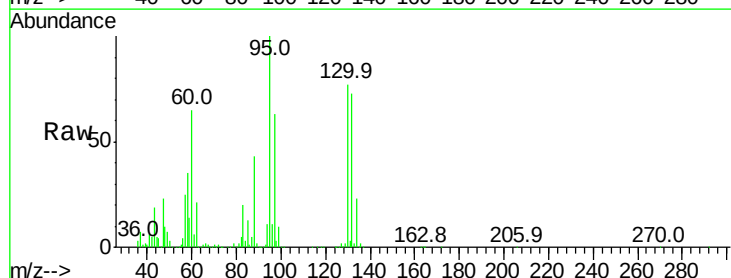
Ion Ratio Lower Upper

88 100

58 151.0 121.7 182.5

43 327.8 0.0 0.0#

57 1248.0 0.0 0.0#

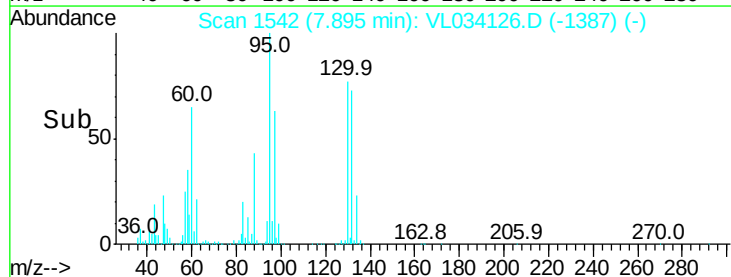
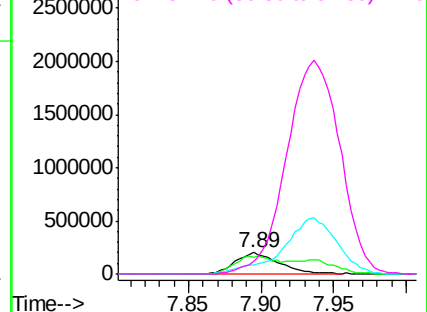


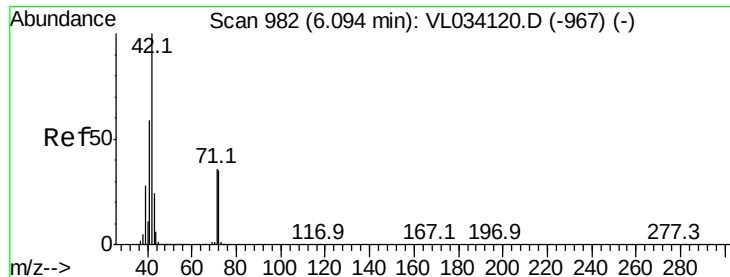
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 13.515 ppbv

RT: 6.09 min Scan# 982

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

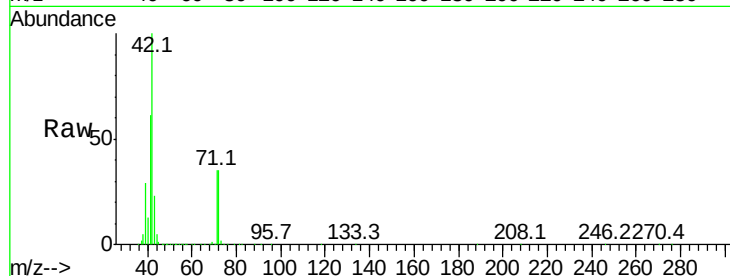
Tgt Ion: 42 Resp: 1677345

Ion Ratio Lower Upper

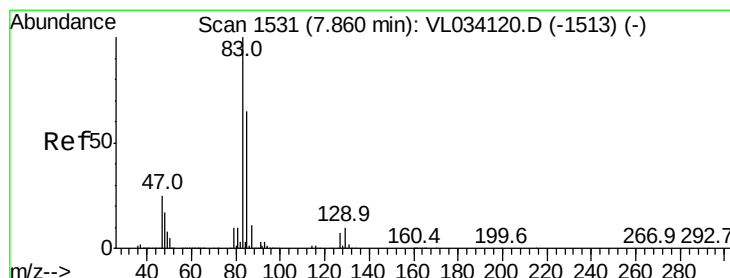
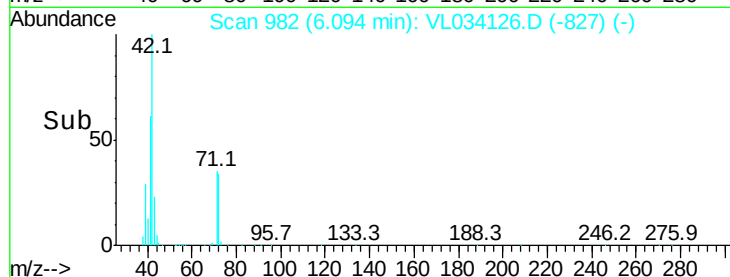
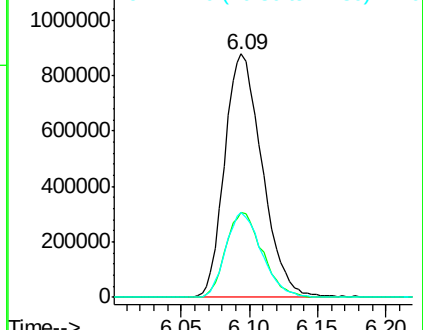
42 100

72 34.2 27.7 41.5

71 33.6 26.7 40.1



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



#42

Bromodichloromethane

Concen: 13.121 ppbv

RT: 7.86 min Scan# 1532

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

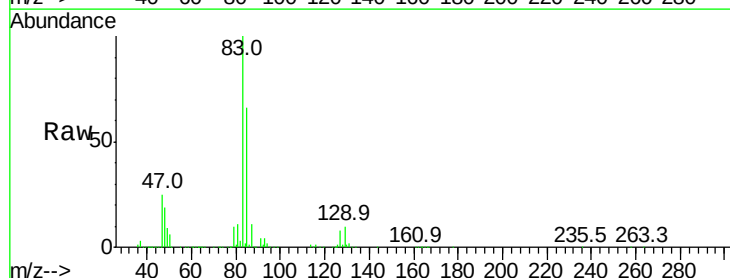
Tgt Ion: 83 Resp: 2593009

Ion Ratio Lower Upper

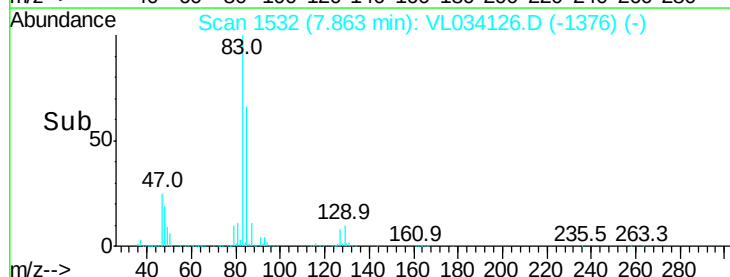
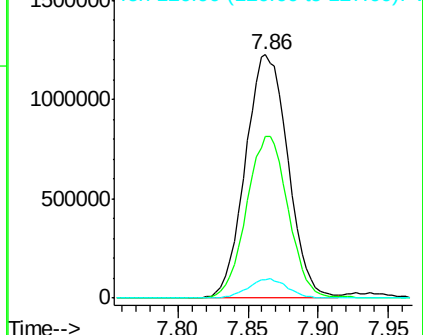
83 100

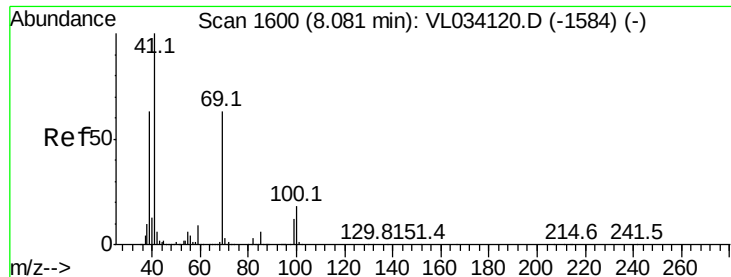
85 66.2 51.6 77.4

127 7.7 5.4 8.0



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





#43

Methyl Methacrylate

Concen: 13.620 ppbv

RT: 8.08 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

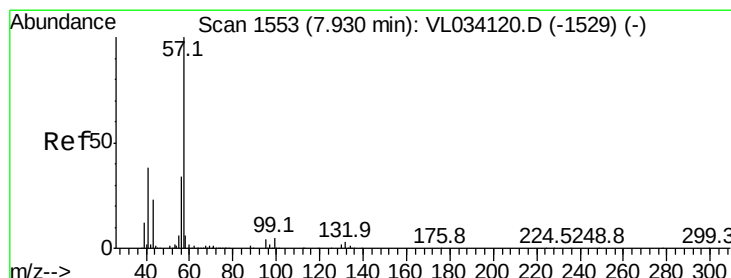
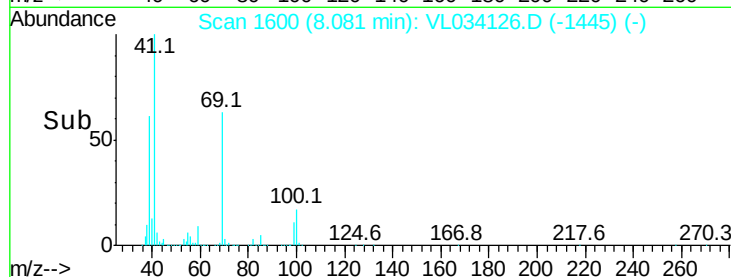
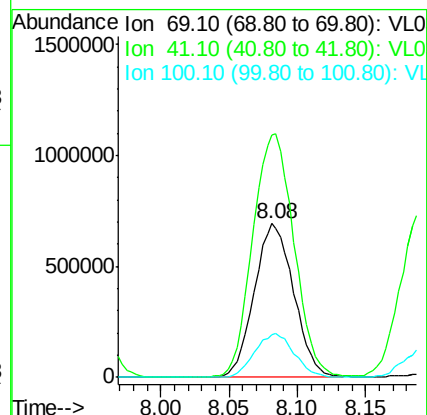
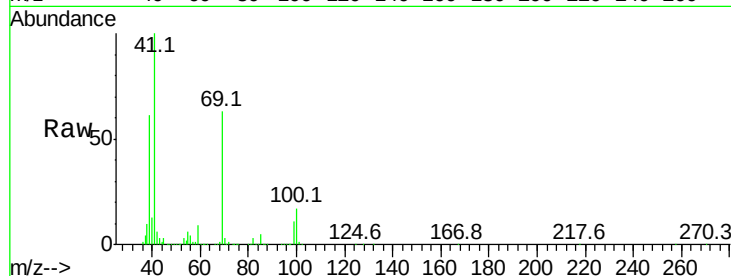
Tgt Ion: 69 Resp: 1386891

Ion Ratio Lower Upper

69 100

41 165.7 131.0 196.6

100 28.7 22.6 33.8



#44

2,2,4-Trimethylpentane

Concen: 11.346 ppbv

RT: 7.94 min Scan# 1555

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

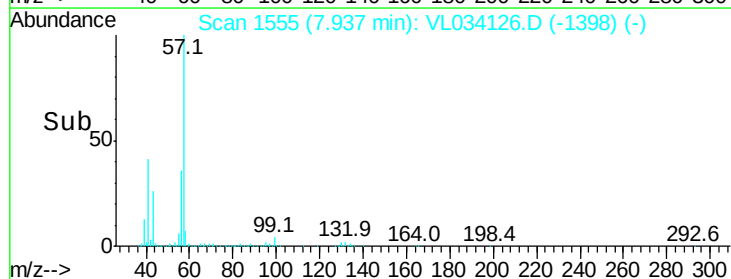
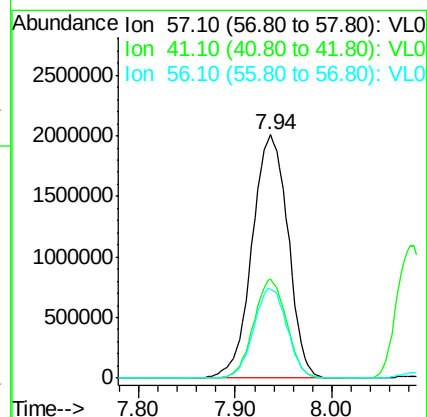
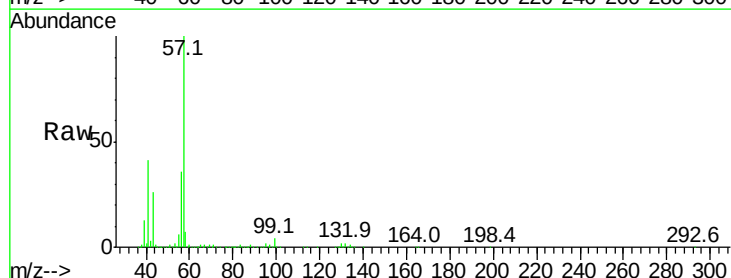
Tgt Ion: 57 Resp: 5170134

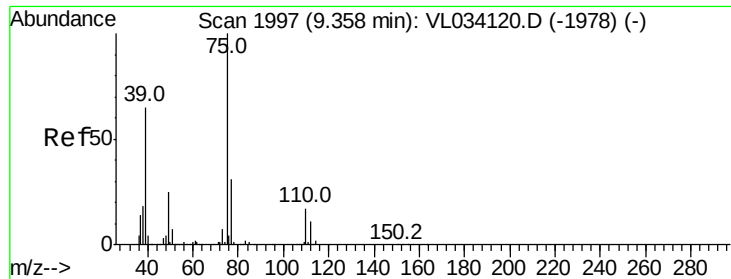
Ion Ratio Lower Upper

57 100

41 37.3 28.4 42.6

56 34.2 26.3 39.5





#45

t-1,3-Dichloropropene

Concen: 15.357 ppbv

RT: 9.36 min Scan# 1997

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

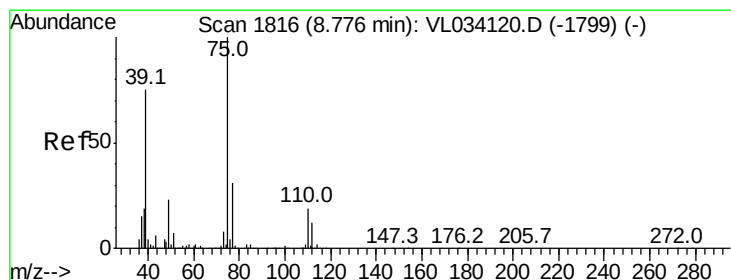
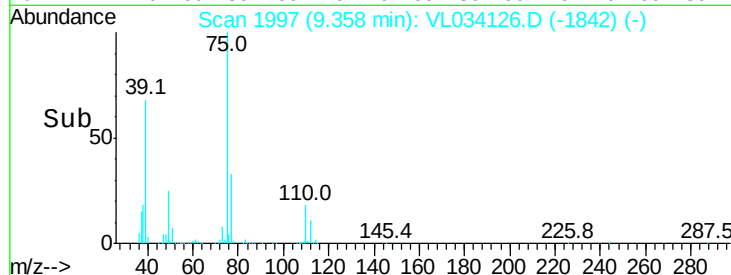
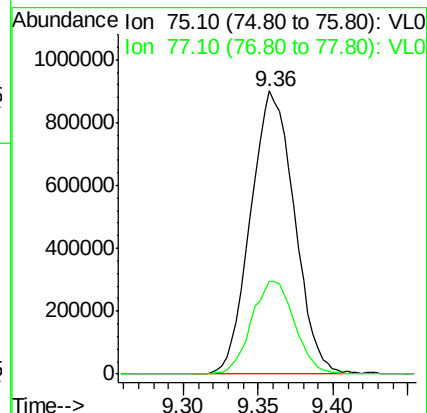
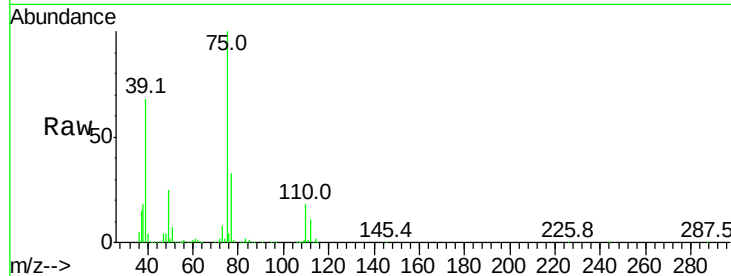
VSTDIC015

Tgt Ion: 75 Resp: 1835425

Ion Ratio Lower Upper

75 100

77 32.9 24.6 36.8



#46

cis-1,3-Dichloropropene

Concen: 14.025 ppbv

RT: 8.78 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

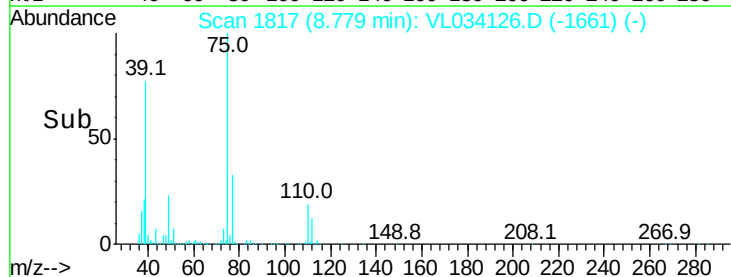
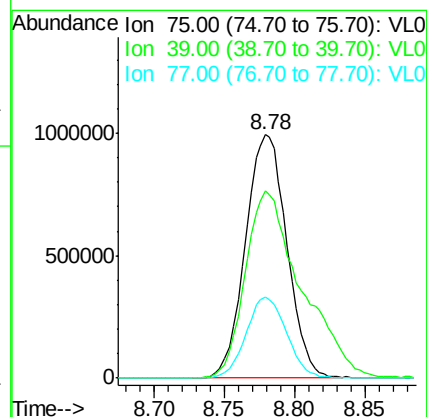
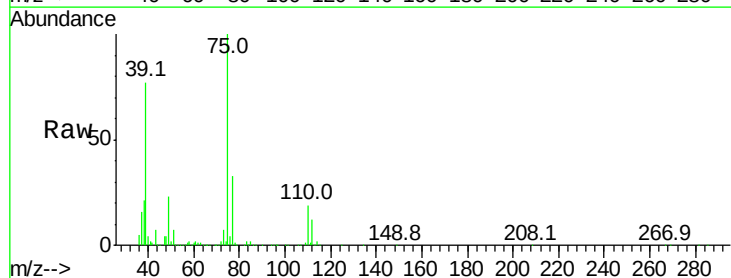
Tgt Ion: 75 Resp: 2042096

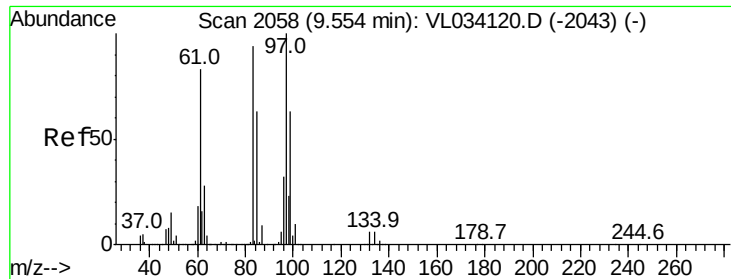
Ion Ratio Lower Upper

75 100

39 76.7 60.0 90.0

77 33.1 24.8 37.2





#47

1,1,2-Trichloroethane

Concen: 13.016 ppbv

RT: 9.56 min Scan# 2060

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 1252989

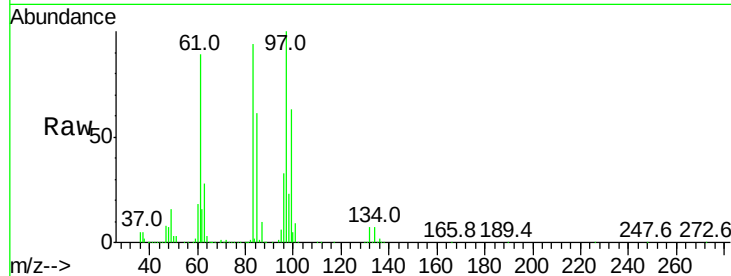
Ion	Ratio	Lower	Upper
97	100		
83	93.5	74.9	112.3
85	60.9	50.6	75.8
99	63.4	50.2	75.2

97 100

83 93.5 74.9 112.3

85 60.9 50.6 75.8

99 63.4 50.2 75.2

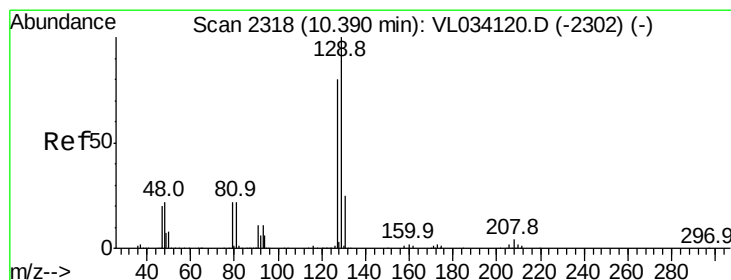
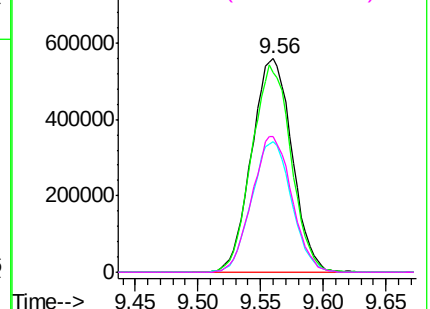
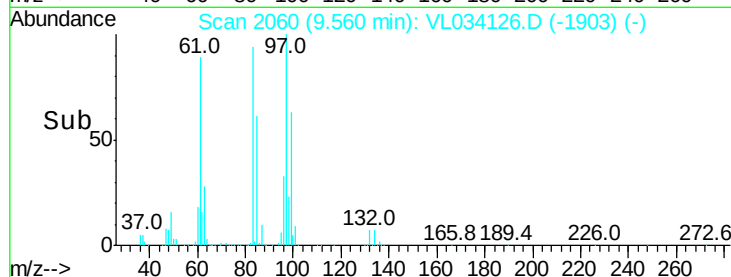


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 13.826 ppbv

RT: 10.39 min Scan# 2319

Delta R.T. 0.00 min

Lab File: VL034126.D

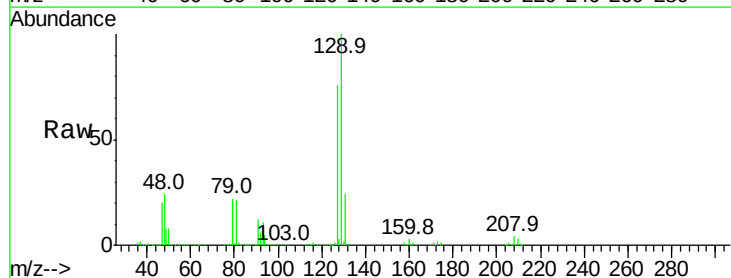
Acq: 5 Sep 2019 6:26

Tgt Ion: 129 Resp: 1988083

Ion	Ratio	Lower	Upper
129	100		
127	78.8	40.2	120.6

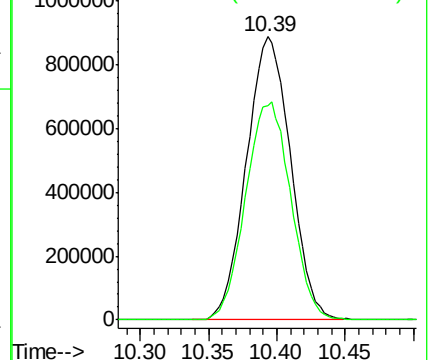
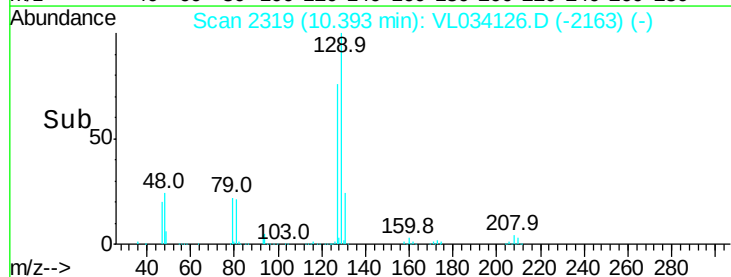
129 100

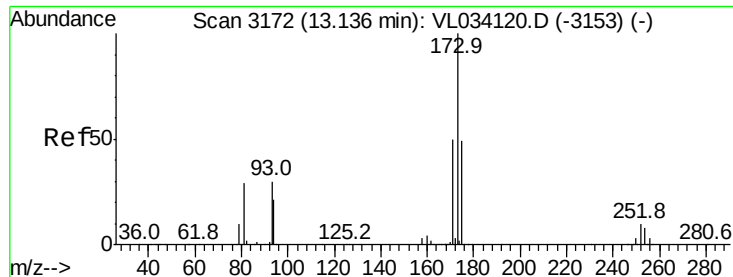
127 78.8 40.2 120.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 13.935 ppbv

RT: 13.14 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

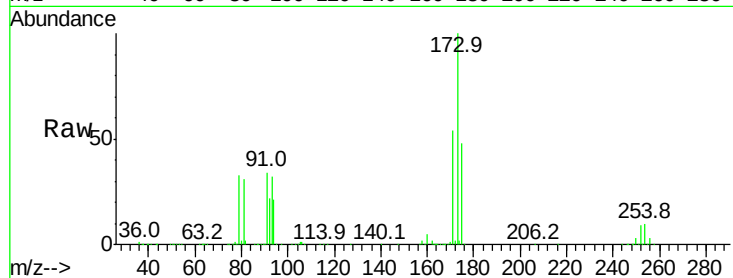
Tgt Ion:173 Resp: 1754367

Ion Ratio Lower Upper

173 100

175 49.5 40.0 60.0

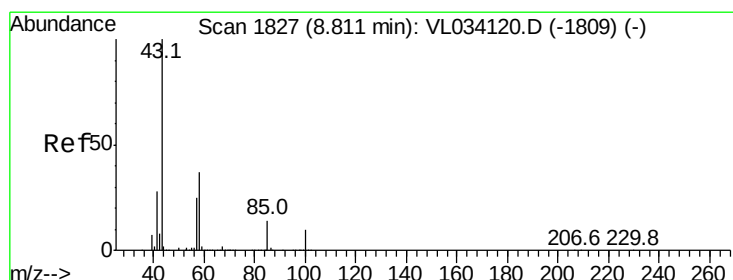
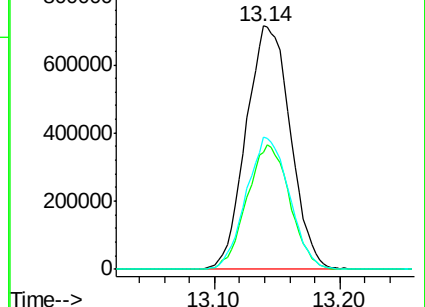
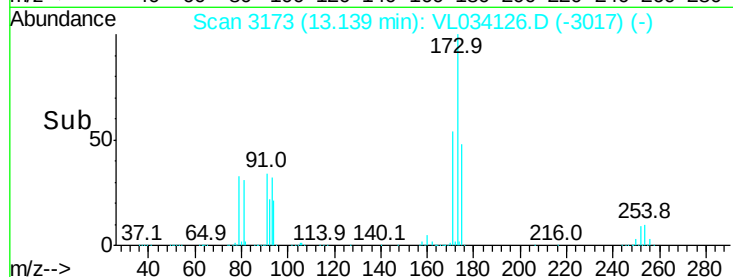
171 52.9 42.2 63.2



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: 11.938 ppbv

RT: 8.81 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VL034126.D

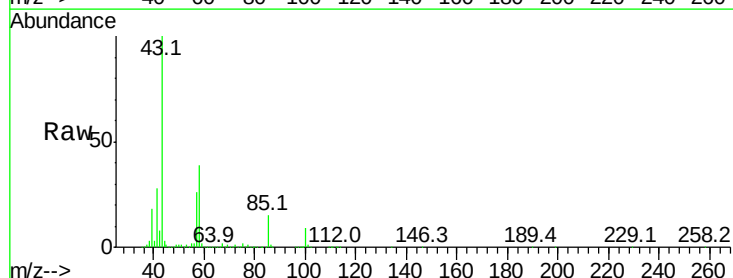
Acq: 5 Sep 2019 6:26

Tgt Ion: 43 Resp: 3787011

Ion Ratio Lower Upper

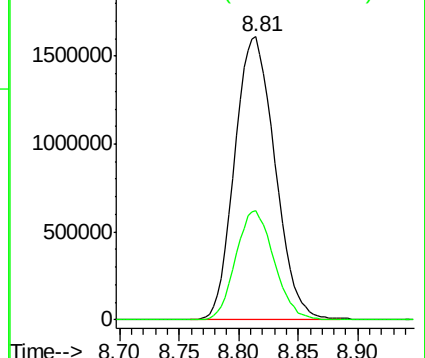
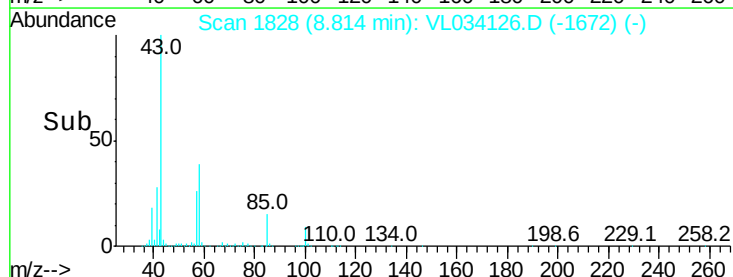
43 100

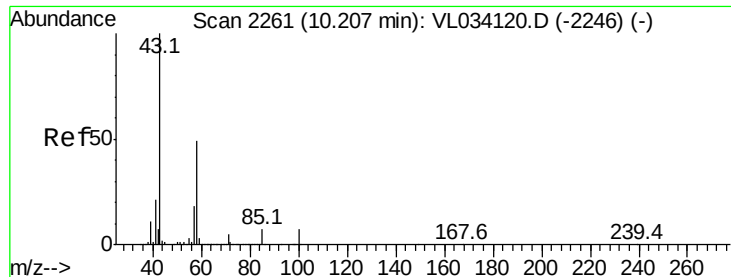
58 36.8 28.5 42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.435 ppbv

RT: 10.21 min Scan# 2263

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

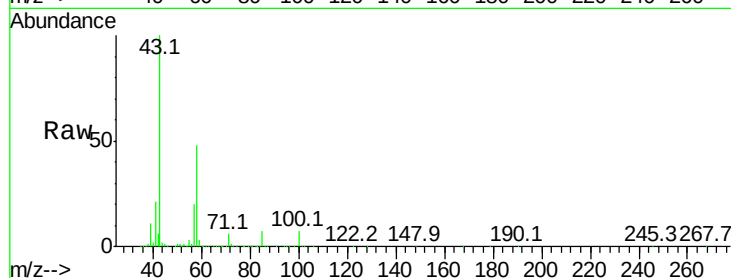
Tgt Ion: 43 Resp: 3375636

Ion Ratio Lower Upper

43 100

58 47.9 38.2 57.2

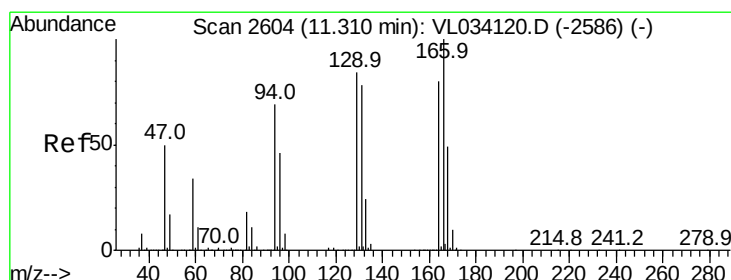
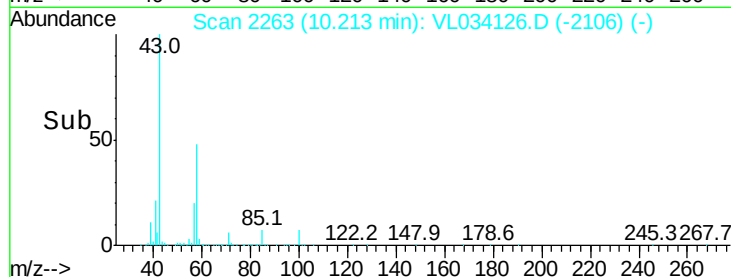
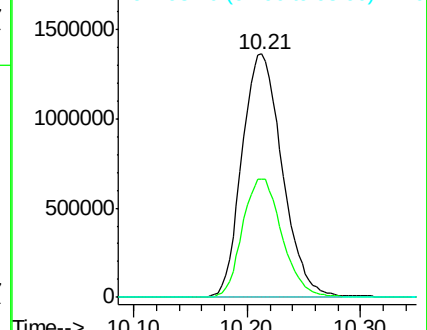
98 0.0 0.1 0.1#



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: 11.511 ppbv

RT: 11.31 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion: 164 Resp: 995678

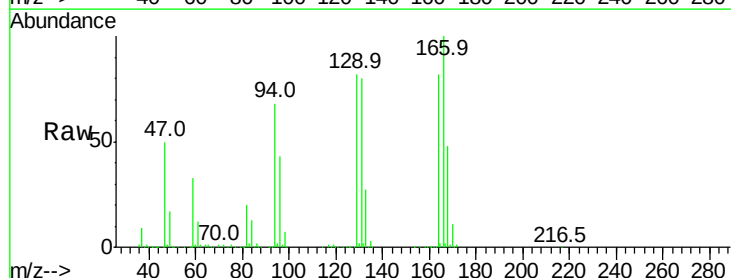
Ion Ratio Lower Upper

164 100

166 122.2 99.5 149.3

129 99.7 83.6 125.4

131 98.0 77.9 116.9

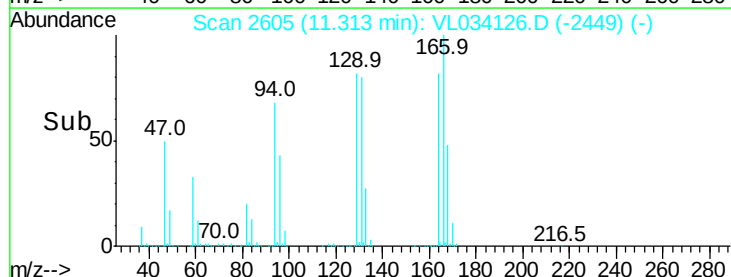
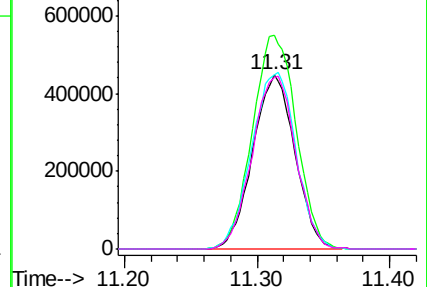


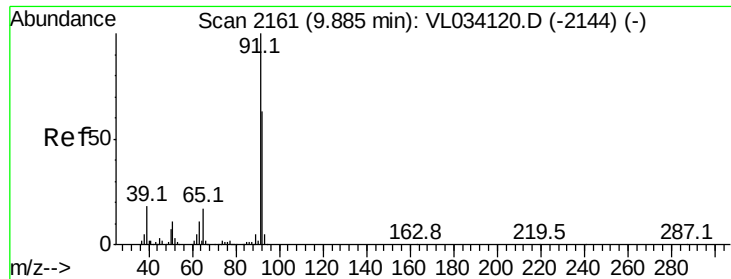
Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.494 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

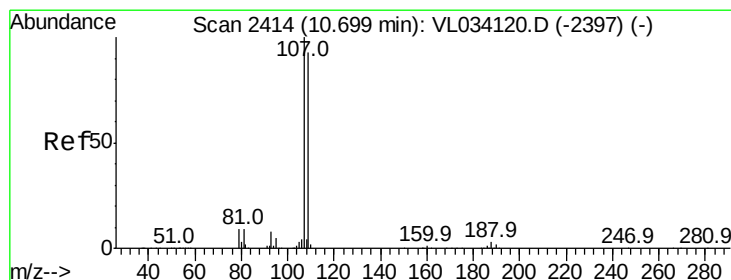
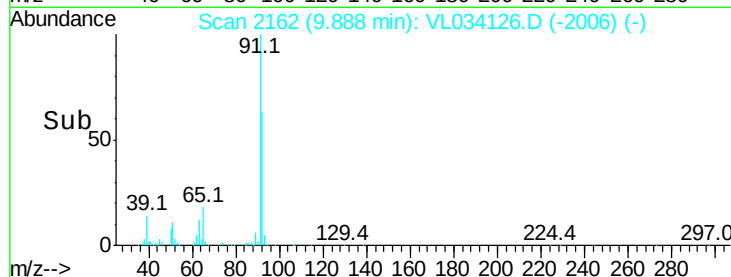
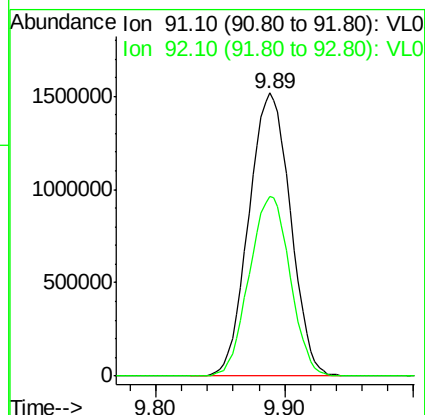
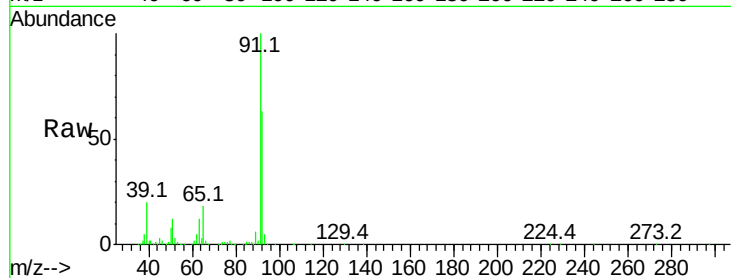
VSTDIC015

Tgt Ion: 91 Resp: 3415350

Ion Ratio Lower Upper

91 100

92 62.4 49.3 73.9



#54

1,2-Dibromoethane

Concen: 13.023 ppbv

RT: 10.70 min Scan# 2414

Delta R.T. -0.00 min

Lab File: VL034126.D

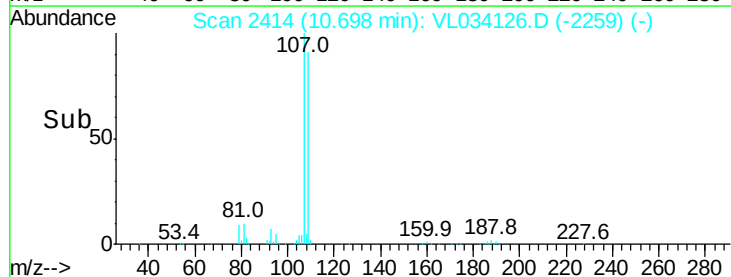
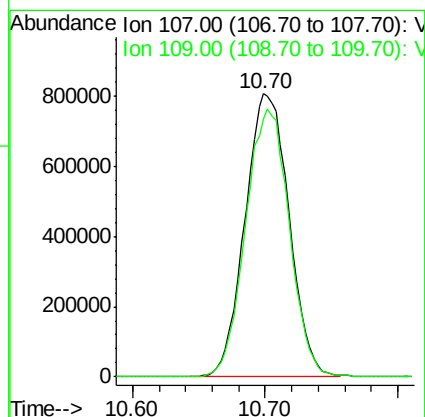
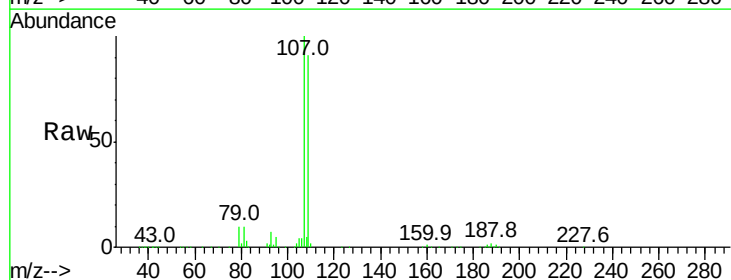
Acq: 5 Sep 2019 6:26

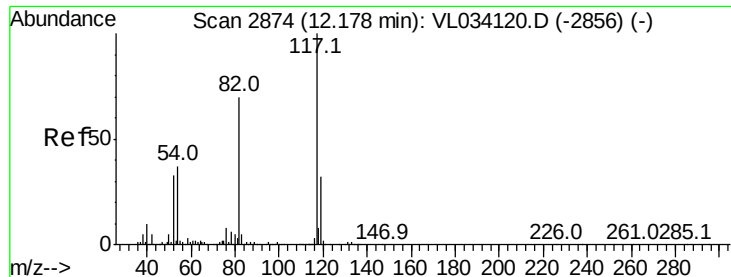
Tgt Ion: 107 Resp: 1864208

Ion Ratio Lower Upper

107 100

109 91.1 74.5 111.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2874

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

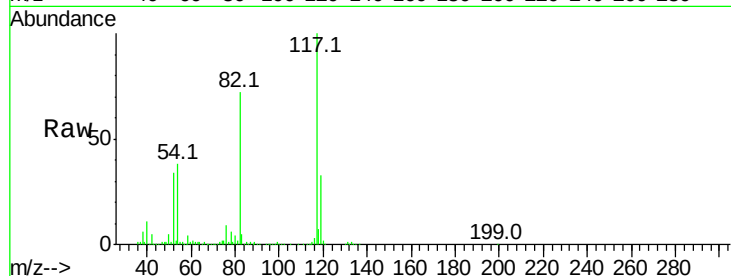
Tgt Ion:117 Resp: 2402985

Ion Ratio Lower Upper

117 100

82 70.5 55.8 83.6

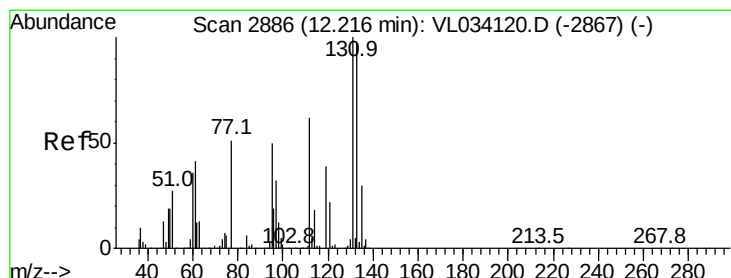
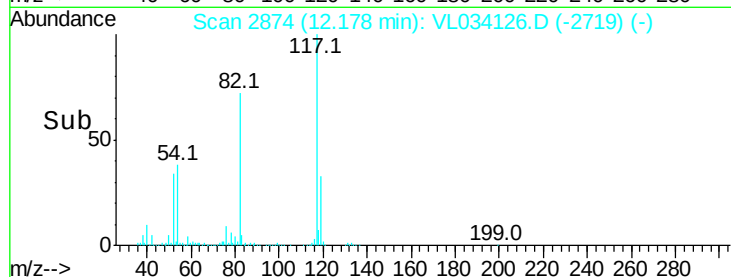
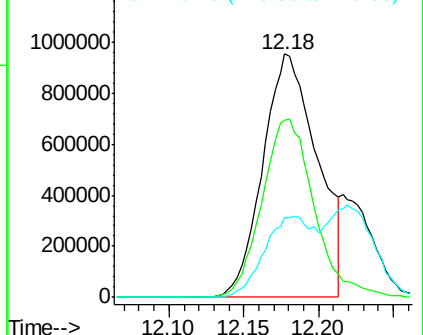
119 26.3 43.1 64.7#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 12.324 ppbv

RT: 12.22 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

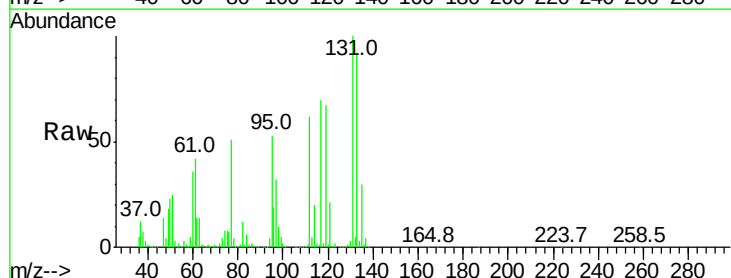
Tgt Ion:131 Resp: 1270193

Ion Ratio Lower Upper

131 100

133 94.7 75.8 113.6

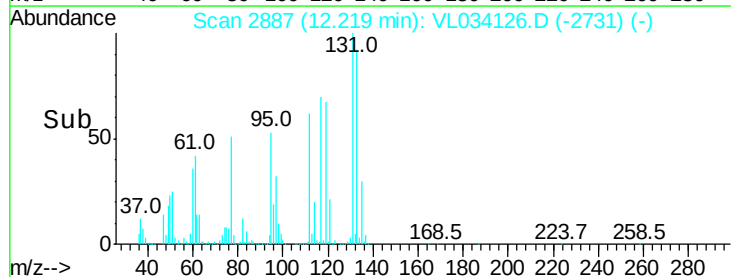
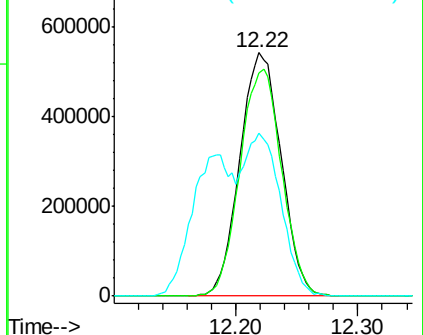
119 65.8 114.7 172.1#

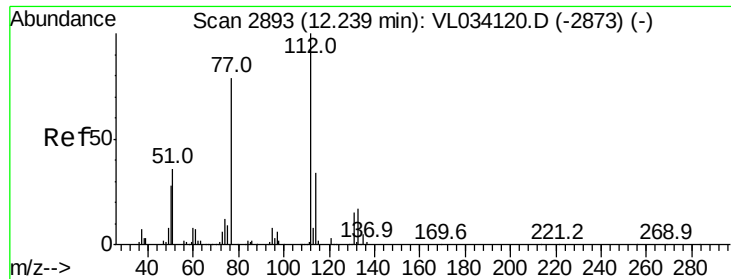


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 11.518 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

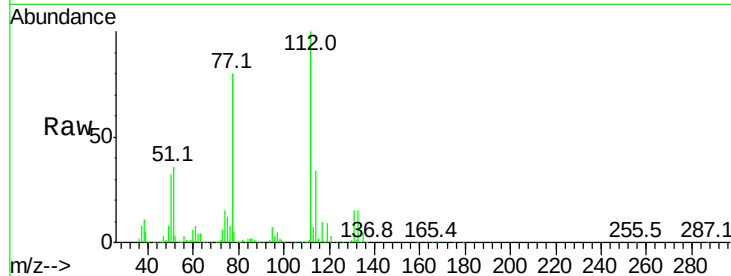
Tgt Ion: 112 Resp: 2380923

Ion Ratio Lower Upper

112 100

77 79.2 64.4 96.6

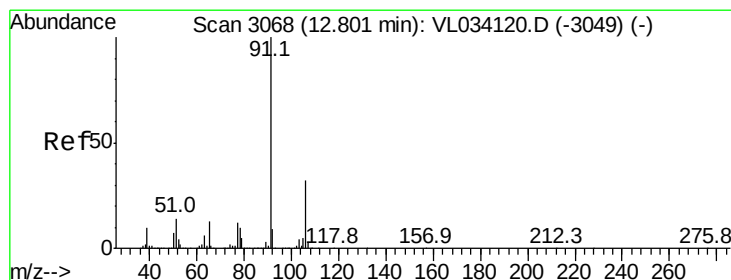
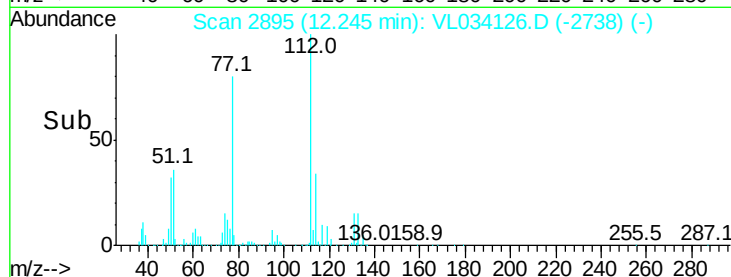
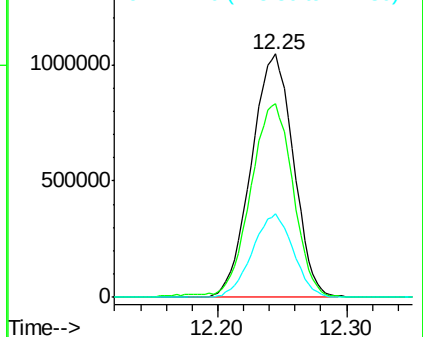
114 34.3 30.3 37.1



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: 11.404 ppbv

RT: 12.80 min Scan# 3069

Delta R.T. 0.00 min

Lab File: VL034126.D

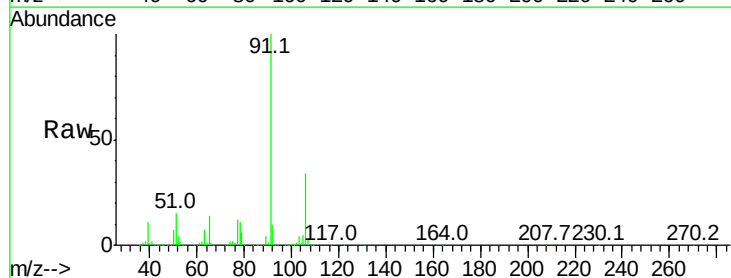
Acq: 5 Sep 2019 6:26

Tgt Ion: 91 Resp: 4488761

Ion Ratio Lower Upper

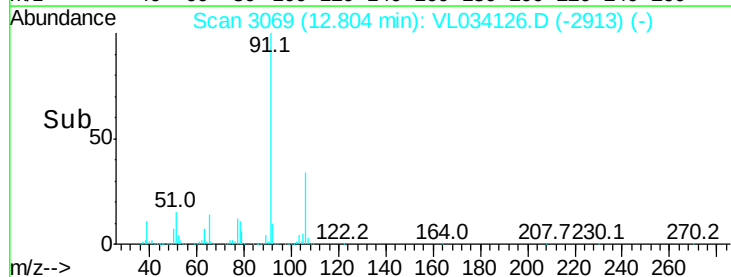
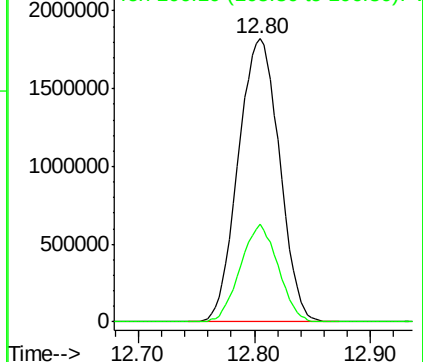
91 100

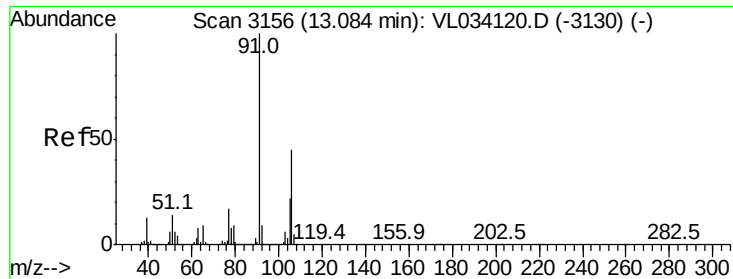
106 34.4 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 2.928 ppbv

RT: 13.08 min Scan# 3155

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

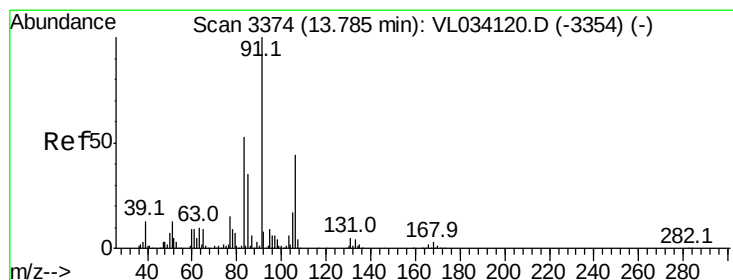
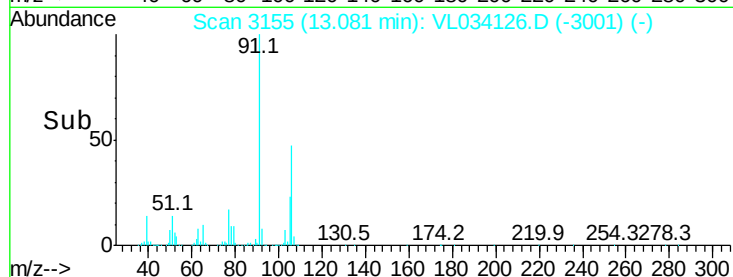
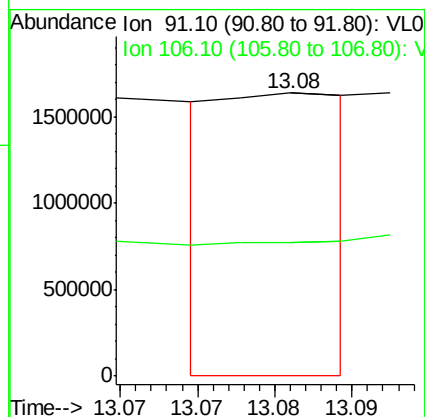
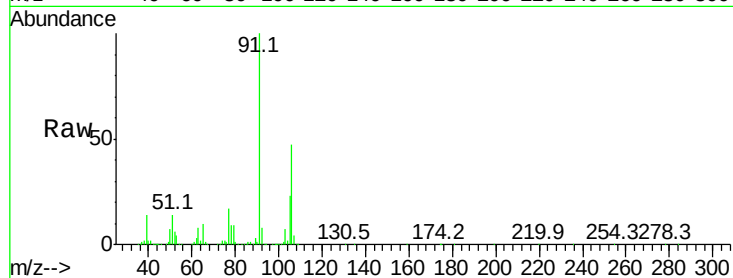
VSTDIC015

Tgt Ion: 91 Resp: 938939

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 11.132 ppbv

RT: 13.79 min Scan# 3375

Delta R.T. 0.00 min

Lab File: VL034126.D

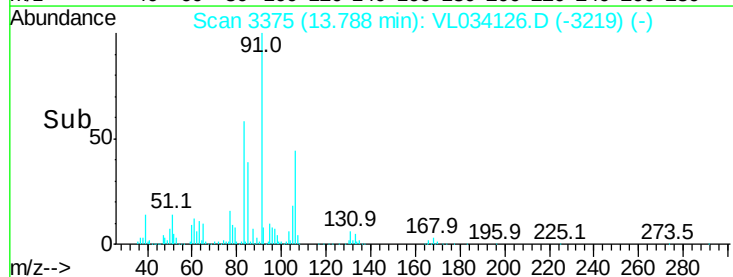
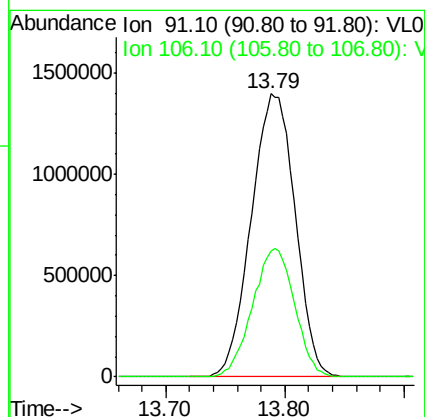
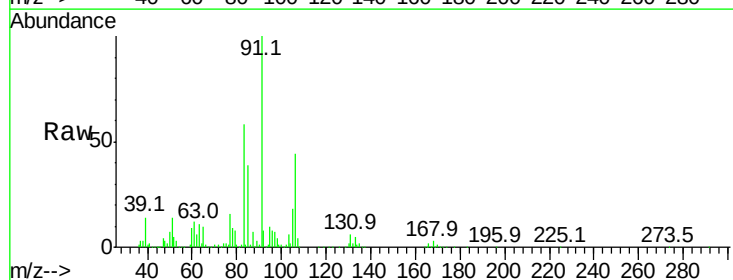
Acq: 5 Sep 2019 6:26

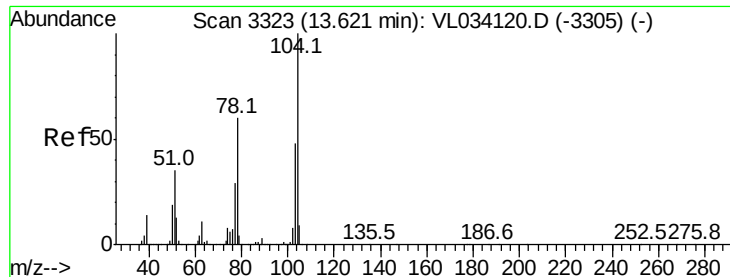
Tgt Ion: 91 Resp: 3564015

Ion Ratio Lower Upper

91 100

106 43.5 21.4 64.3





#61

Styrene

Concen: 12.219 ppbv

RT: 13.63 min Scan# 3325

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

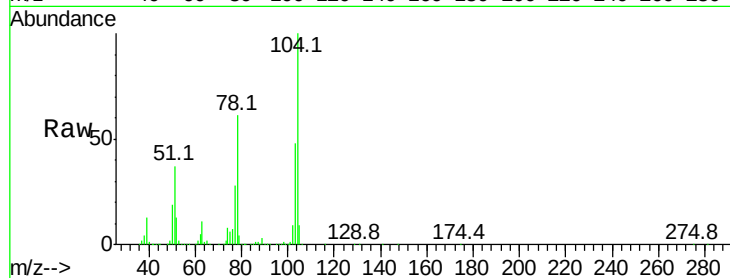
Tgt Ion:104 Resp: 2923205

Ion Ratio Lower Upper

104 100

78 60.1 47.8 71.6

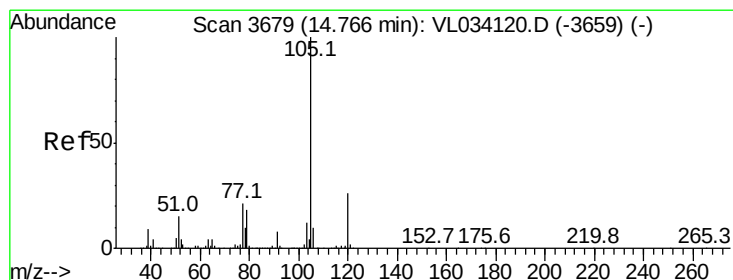
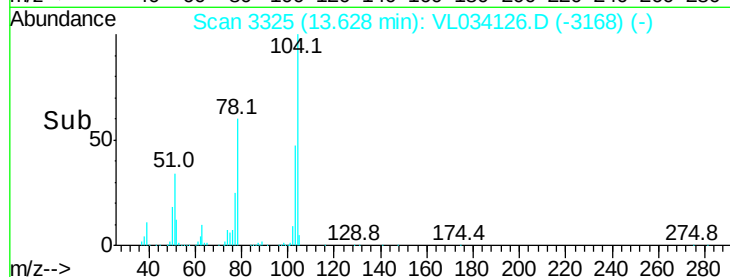
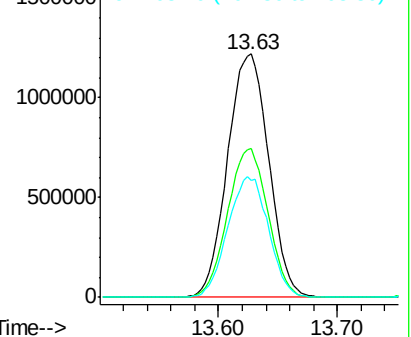
103 48.9 38.7 58.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 11.056 ppbv

RT: 14.77 min Scan# 3680

Delta R.T. 0.00 min

Lab File: VL034126.D

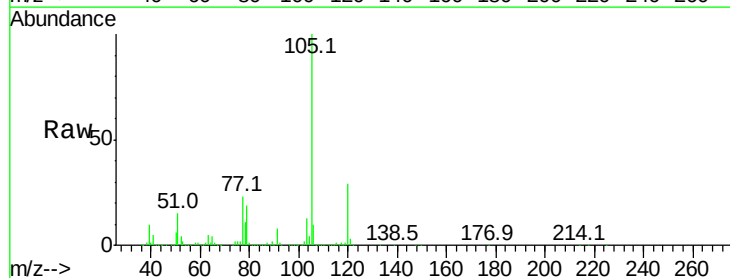
Acq: 5 Sep 2019 6:26

Tgt Ion:105 Resp: 4603898

Ion Ratio Lower Upper

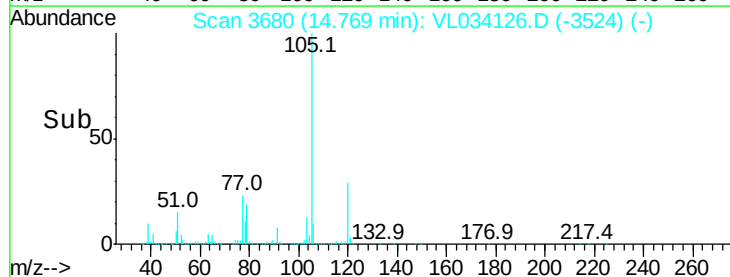
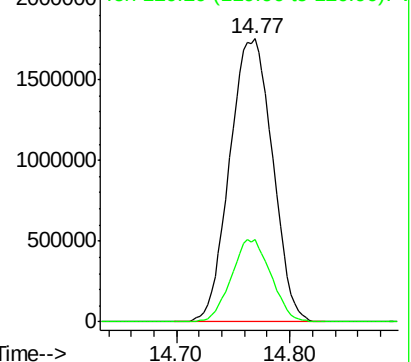
105 100

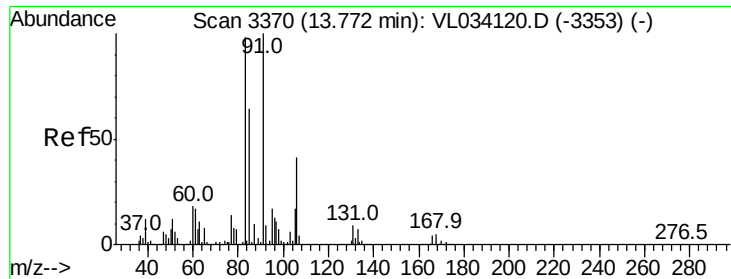
120 27.0 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.883 ppbv

RT: 13.78 min Scan# 3371

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

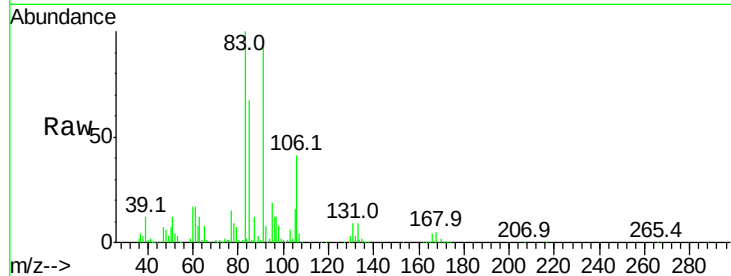
MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 2588223

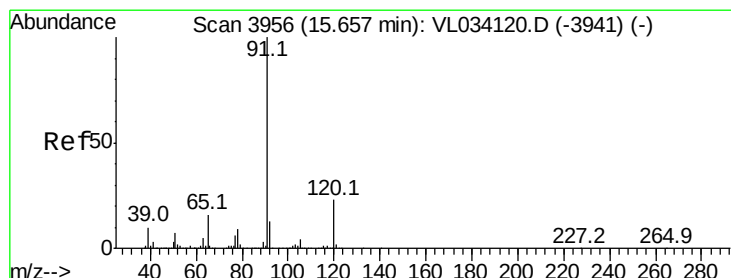
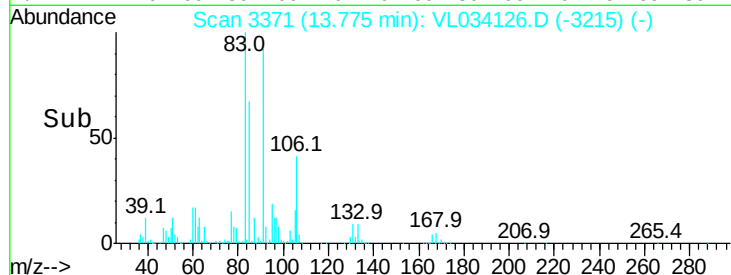
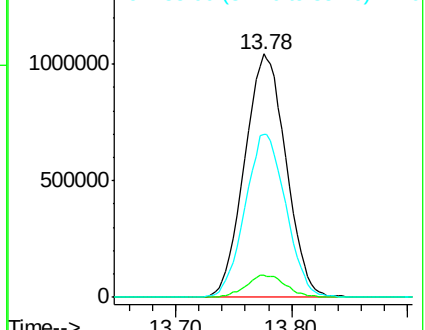
Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.3	12.8
85	66.2	32.5	97.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 12.047 ppbv

RT: 15.66 min Scan# 3958

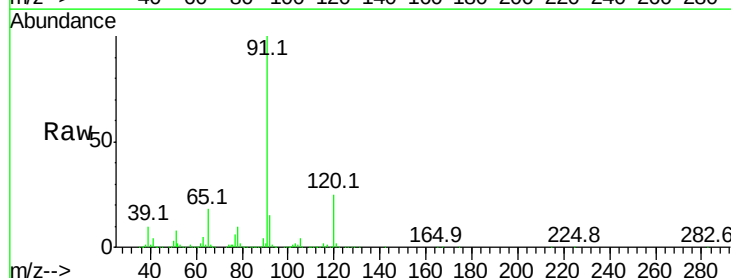
Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

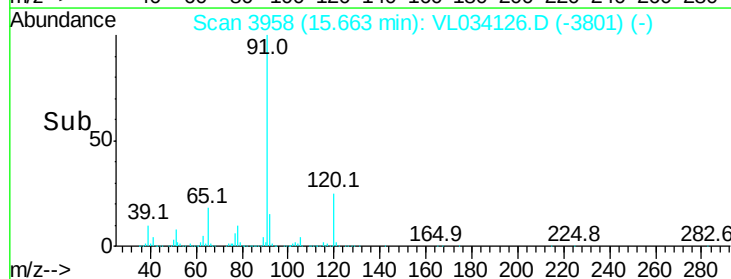
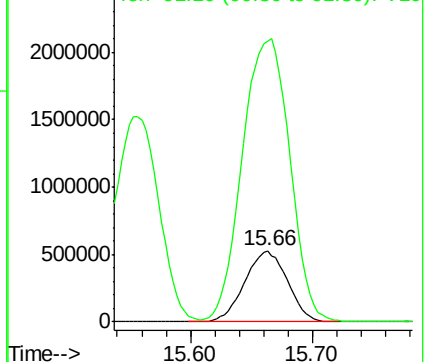
Tgt Ion: 120 Resp: 1275313

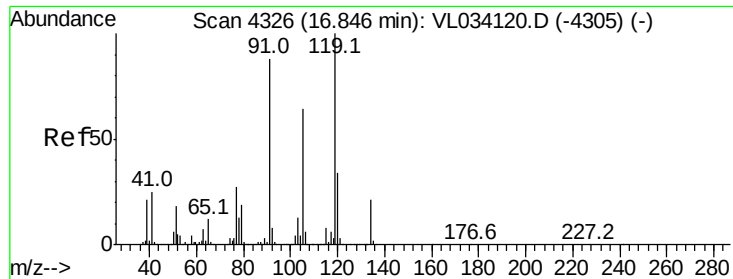
Ion	Ratio	Lower	Upper
120	100		
91	445.4	376.8	565.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 10.758 ppbv

RT: 16.85 min Scan# 4326

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

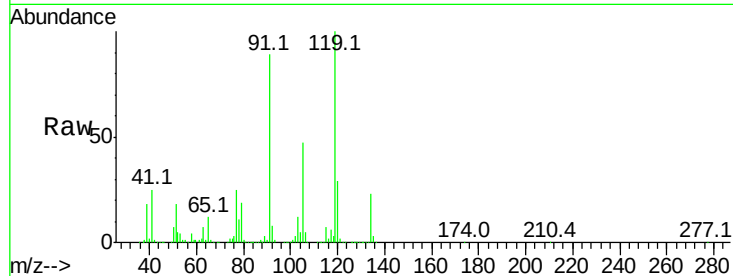
Tgt Ion:119 Resp: 3858750

Ion Ratio Lower Upper

119 100

91 92.2 72.8 109.2

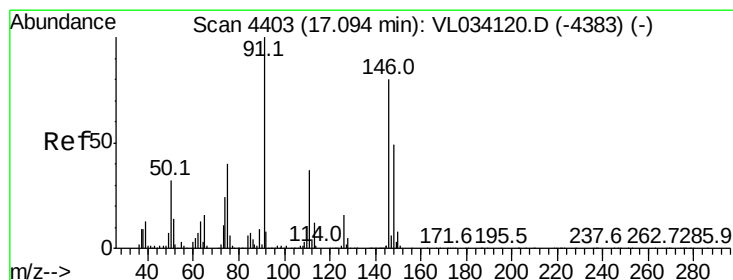
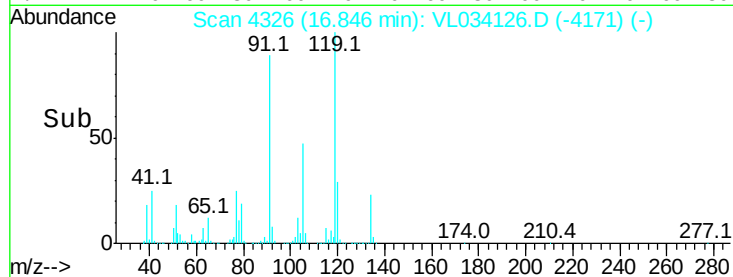
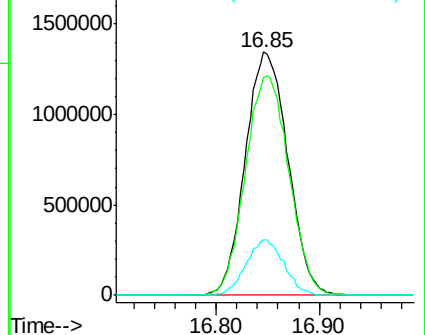
134 20.4 15.8 23.8



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: 16.504 ppbv

RT: 17.10 min Scan# 4404

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

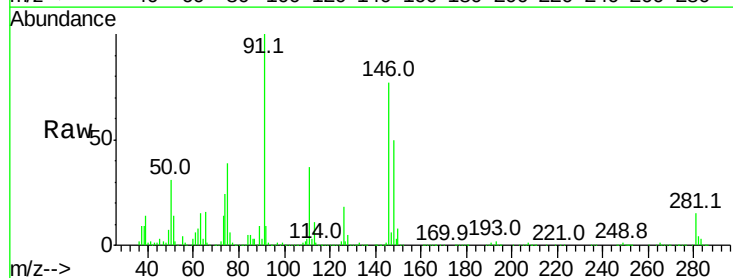
Tgt Ion: 91 Resp: 2181295

Ion Ratio Lower Upper

91 100

126 16.8 13.7 20.5

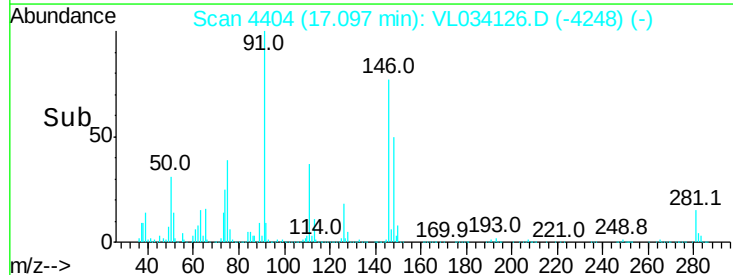
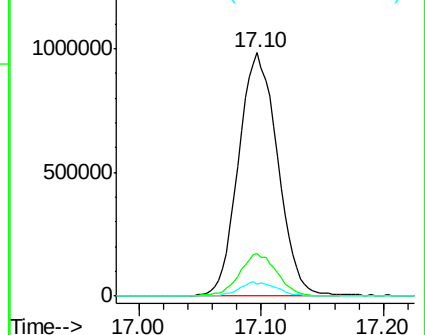
128 5.5 4.2 6.4

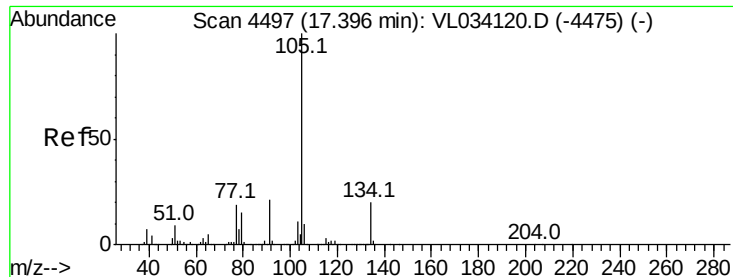


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.610 ppbv

RT: 17.40 min Scan# 4498

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

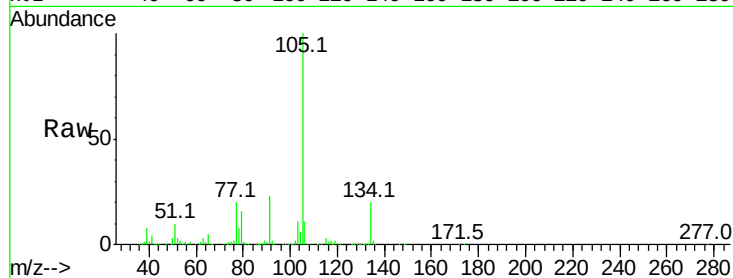
VSTDIC015

Tgt Ion:105 Resp: 5483191

Ion Ratio Lower Upper

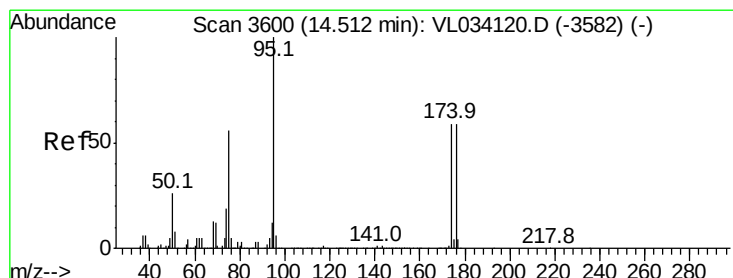
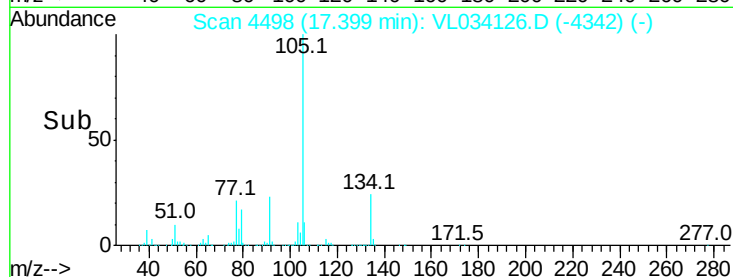
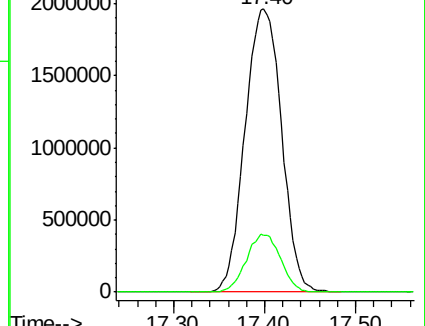
105 100

134 19.3 15.0 22.4



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: 9.524 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

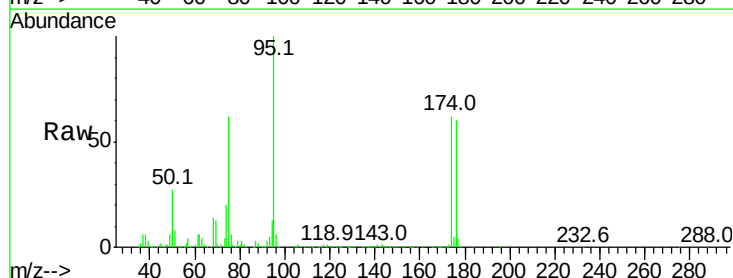
Tgt Ion: 95 Resp: 1870998

Ion Ratio Lower Upper

95 100

174 61.0 48.1 72.1

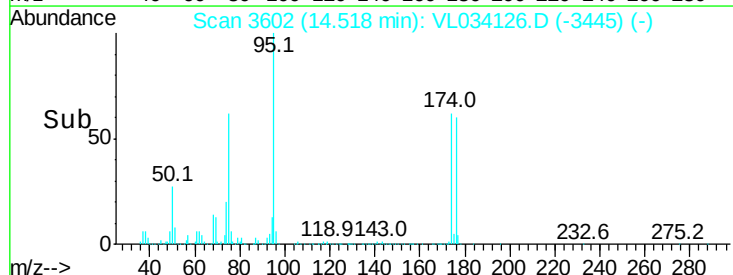
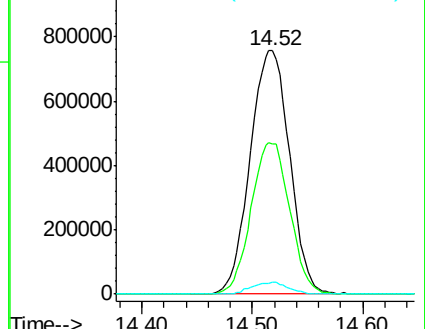
175 4.5 3.5 5.3

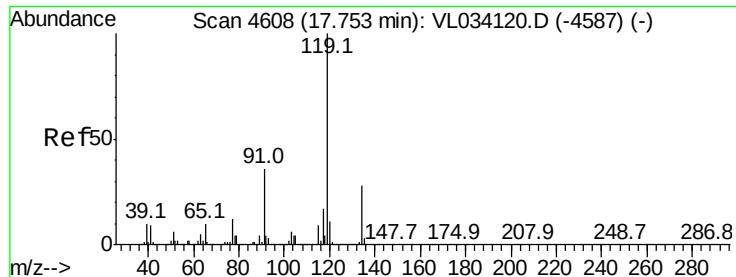


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 10.911 ppbv

RT: 17.76 min Scan# 4609

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

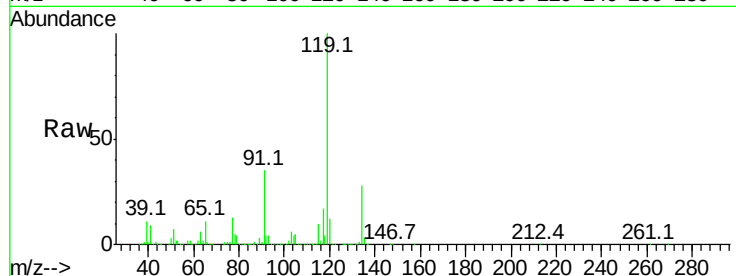
Tgt Ion: 119 Resp: 4503758

Ion Ratio Lower Upper

119 100

134 27.0 20.8 31.2

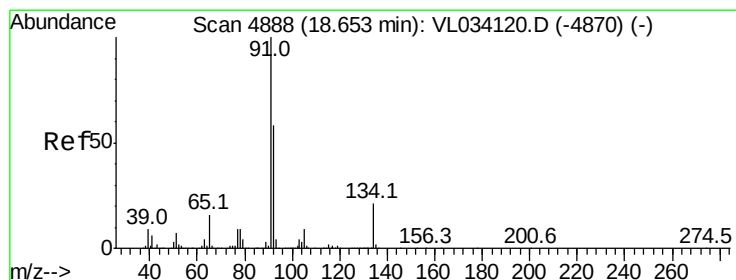
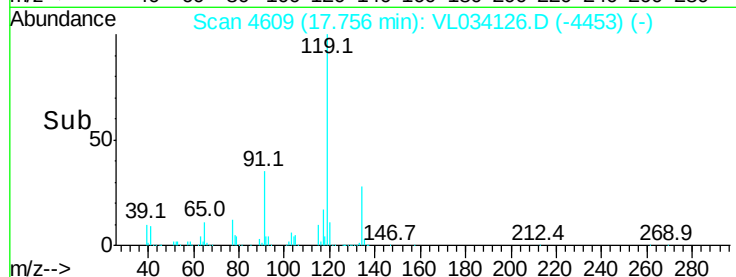
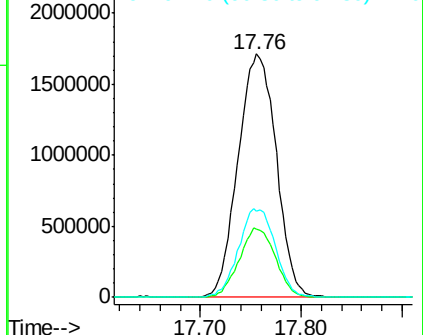
91 35.1 27.2 40.8



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 10.586 ppbv

RT: 18.65 min Scan# 4888

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

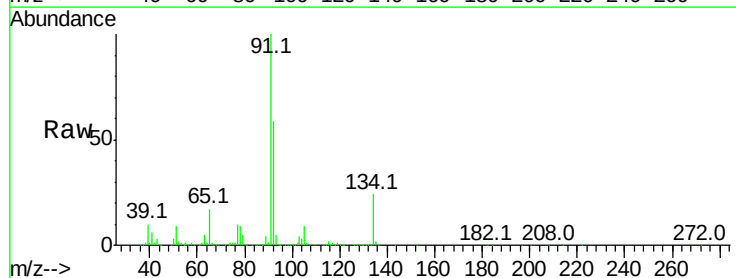
Tgt Ion: 91 Resp: 4982137

Ion Ratio Lower Upper

91 100

92 57.6 45.3 67.9

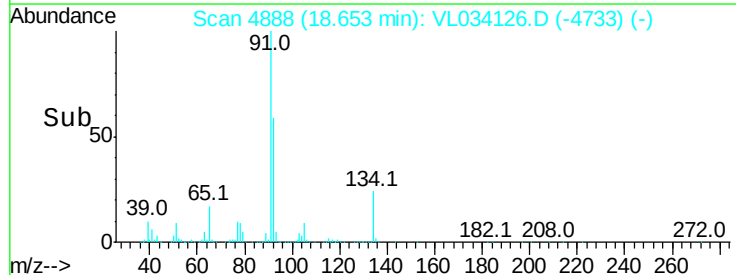
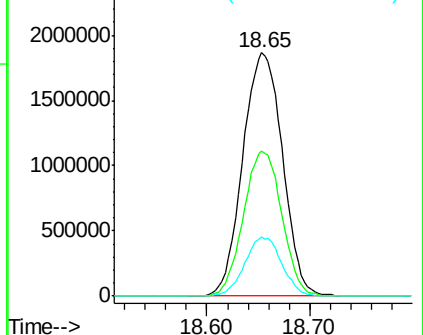
134 22.5 17.4 26.0

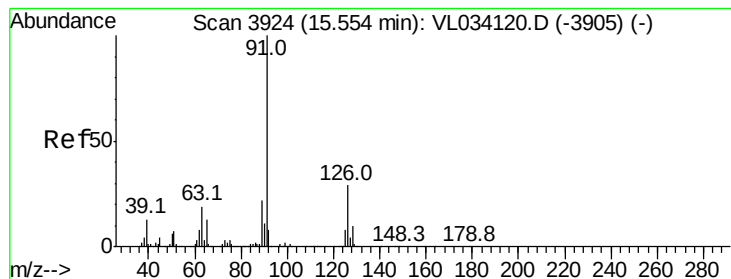


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 11.369 ppbv

RT: 15.56 min Scan# 3925

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

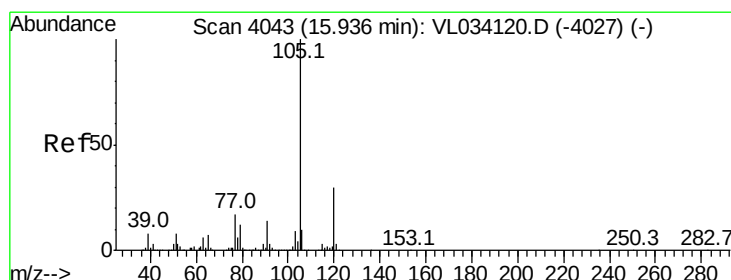
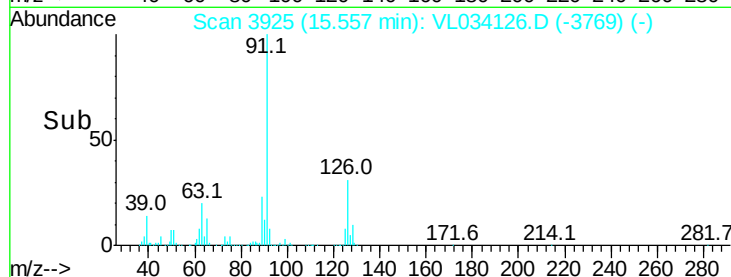
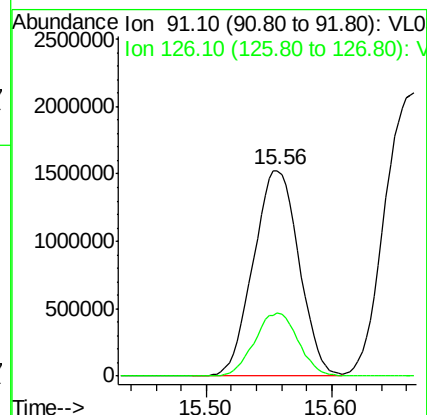
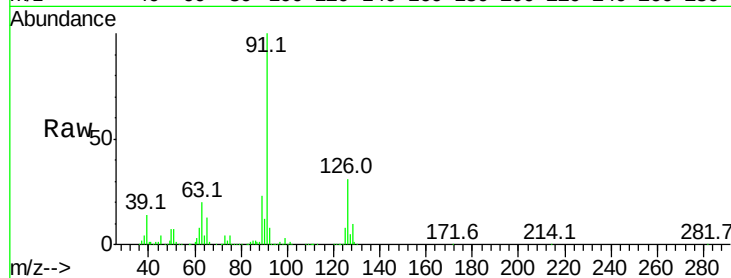
VSTDIC015

Tgt Ion: 91 Resp: 3868777

Ion Ratio Lower Upper

91 100

126 29.6 11.4 45.4



#72

4-Ethyltoluene

Concen: 11.537 ppbv

RT: 15.94 min Scan# 4045

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion: 105 Resp: 4167423

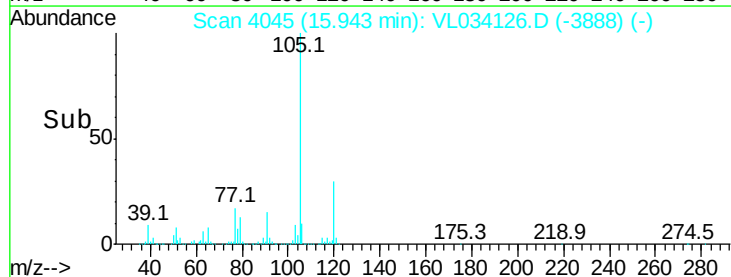
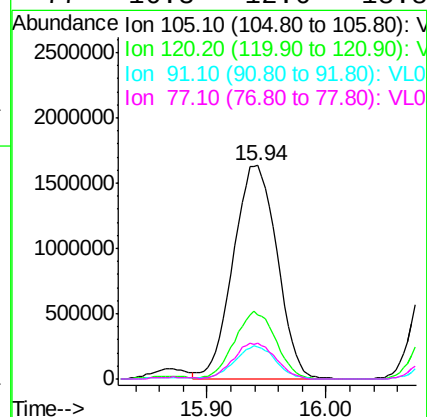
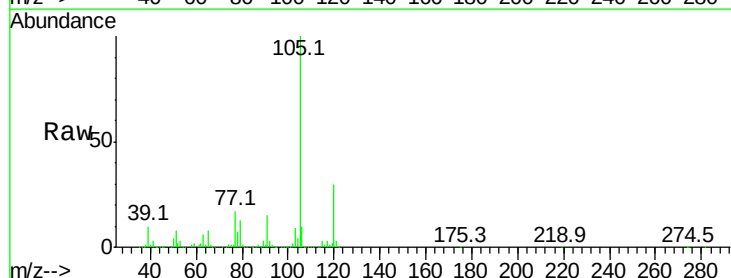
Ion Ratio Lower Upper

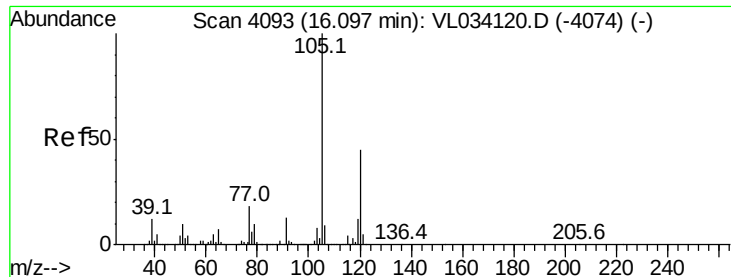
105 100

120 30.1 23.8 35.6

91 14.9 11.4 17.0

77 16.3 12.6 18.8





#73

1,3,5-Trimethylbenzene

Concen: 11.254 ppbv

RT: 16.10 min Scan# 4094

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

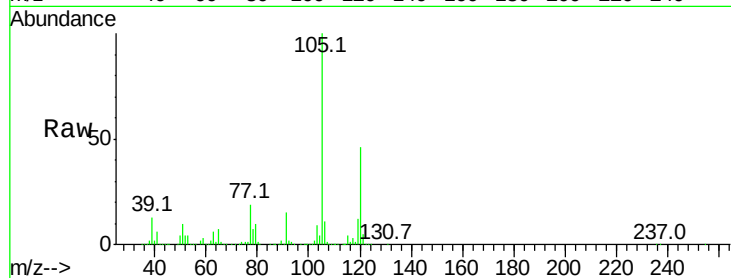
VSTDIC015

Tgt Ion:105 Resp: 3951006

Ion Ratio Lower Upper

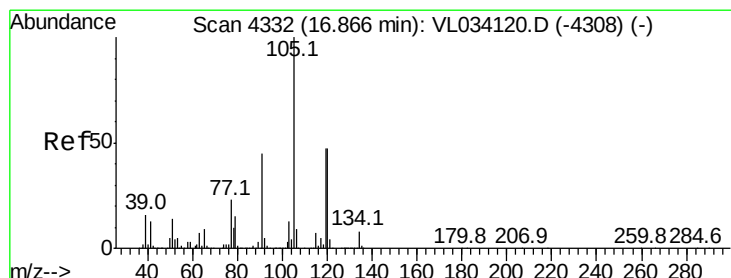
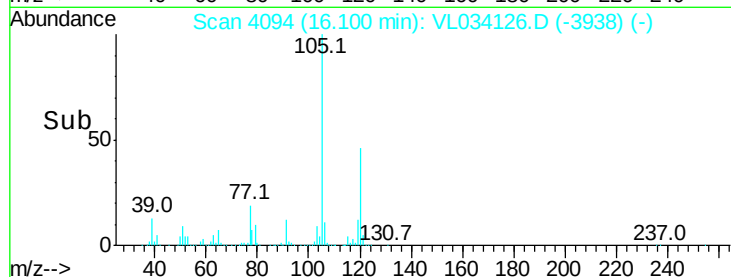
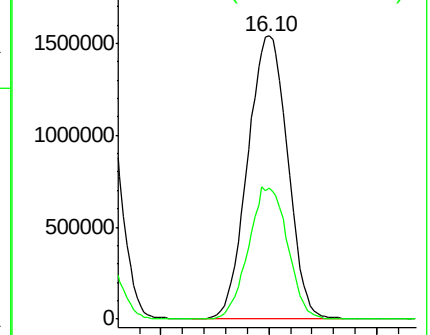
105 100

120 46.2 35.8 53.8



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: 10.585 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion:105 Resp: 3826397

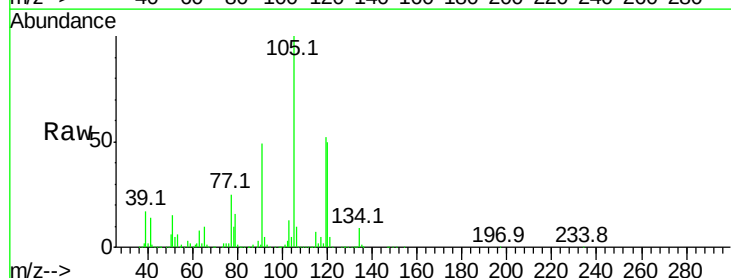
Ion Ratio Lower Upper

105 100

120 49.5 37.7 56.5

91 48.9 36.2 54.2

77 25.1 18.5 27.7

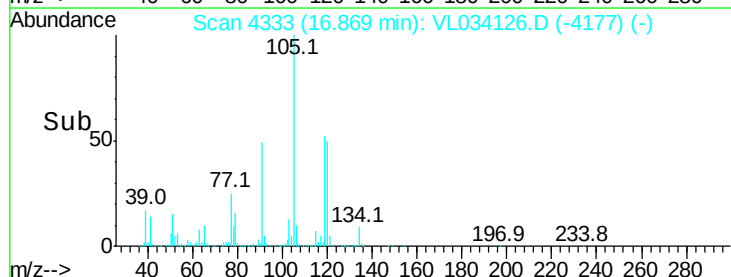
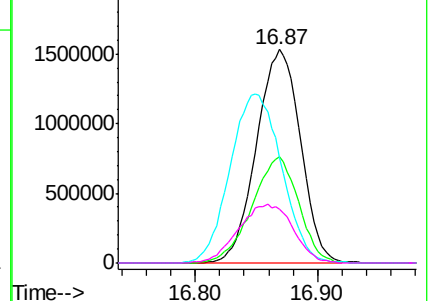


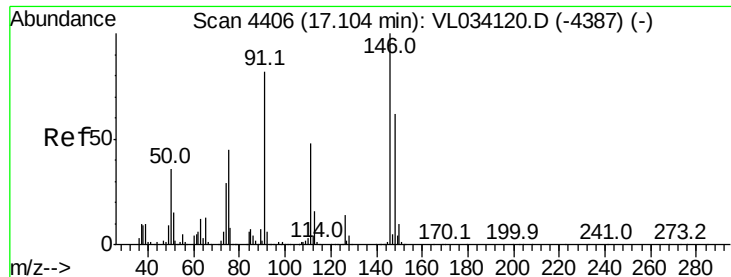
Abundance Ion 105.10 (104.80 to 105.80): V

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

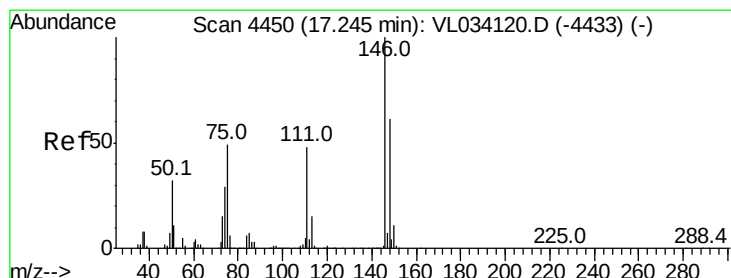
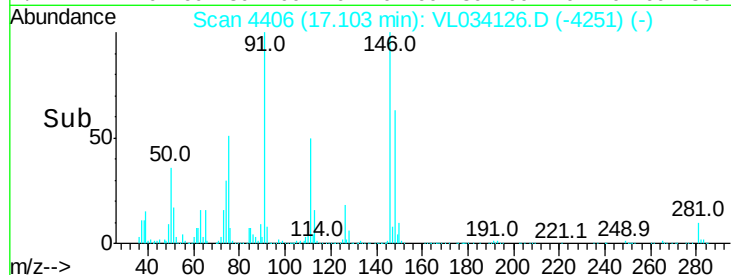
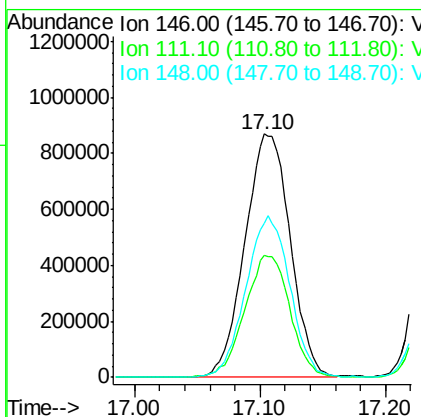
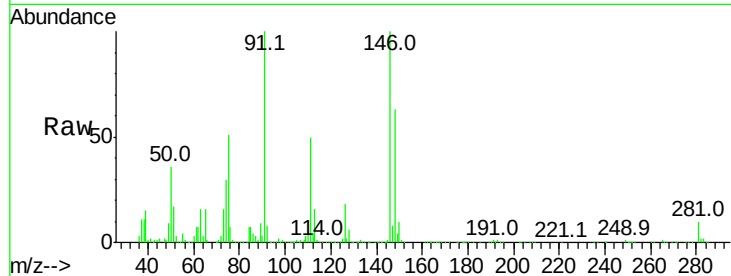




#75
 1,3-Dichlorobenzene
 Concen: 11.407 ppbv
 RT: 17.10 min Scan# 4406
 Delta R.T. -0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

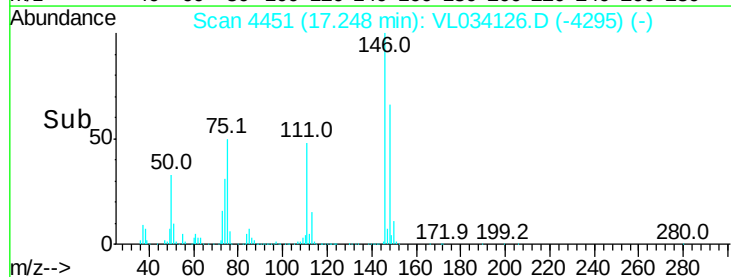
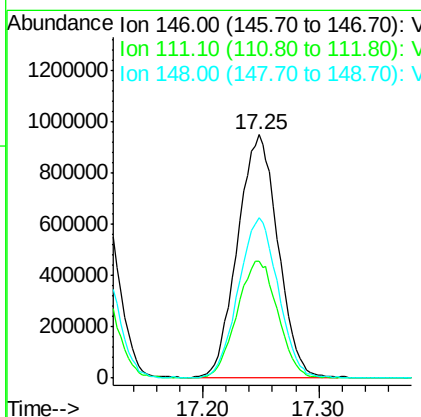
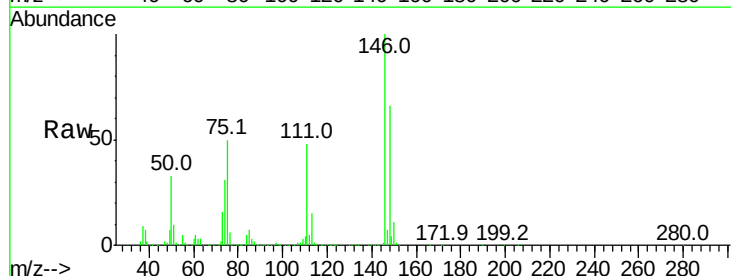
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

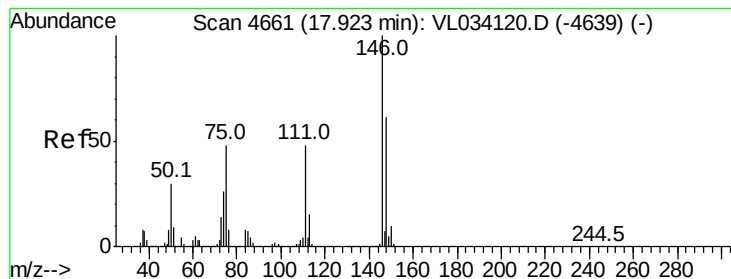
Tgt Ion:146 Resp: 2183501
 Ion Ratio Lower Upper
 146 100
 111 50.0 24.9 74.7
 148 64.6 32.5 97.5



#76
 1,4-Dichlorobenzene
 Concen: 11.311 ppbv
 RT: 17.25 min Scan# 4451
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Tgt Ion:146 Resp: 2283155
 Ion Ratio Lower Upper
 146 100
 111 48.9 24.3 72.8
 148 65.2 32.6 98.0





#77

1,2-Dichlorobenzene

Concen: 11.232 ppbv

RT: 17.93 min Scan# 4663

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

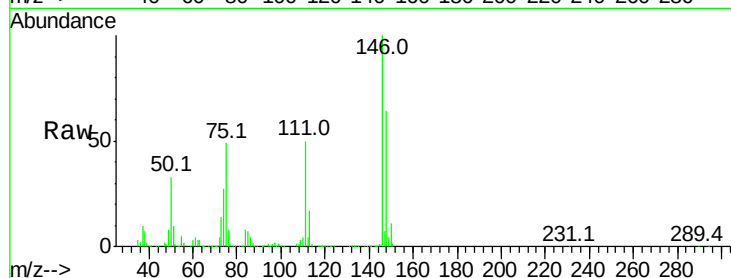
Tgt Ion:146 Resp: 2198315

Ion Ratio Lower Upper

146 100

111 51.7 25.1 75.4

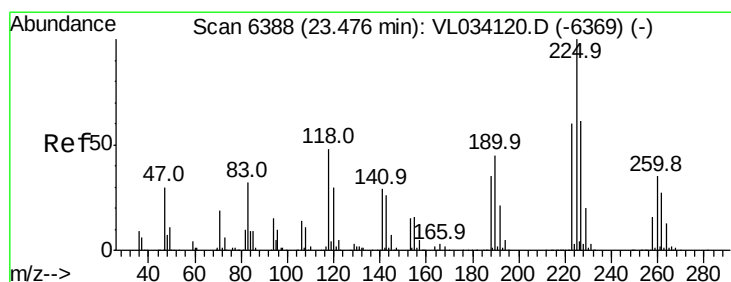
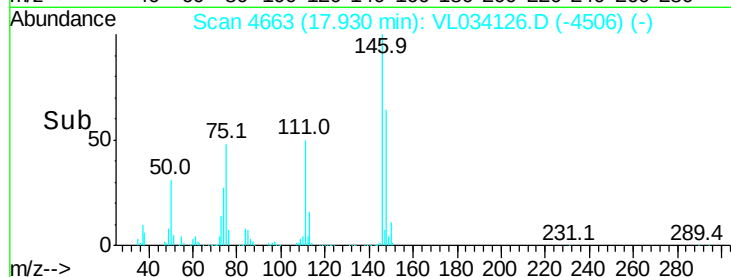
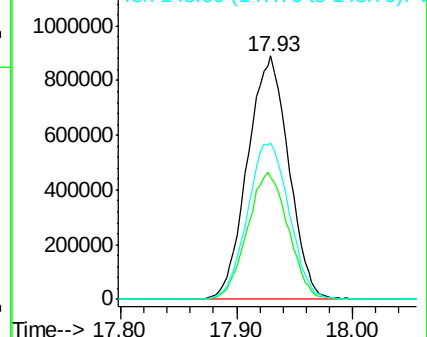
148 65.3 32.0 96.2



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: 11.145 ppbv

RT: 23.48 min Scan# 6390

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

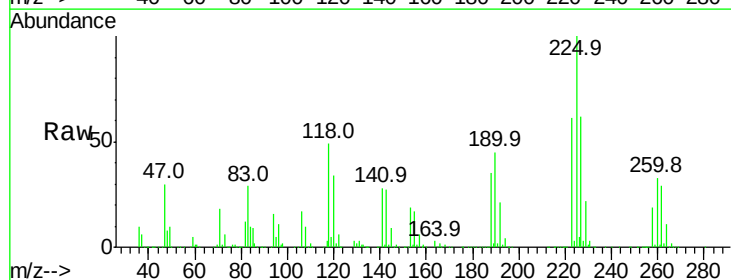
Tgt Ion:225 Resp: 1487057

Ion Ratio Lower Upper

225 100

223 62.9 50.3 75.5

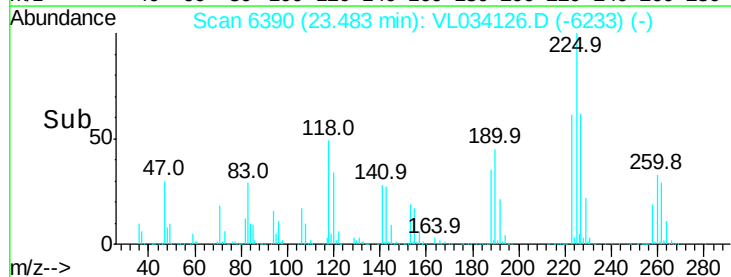
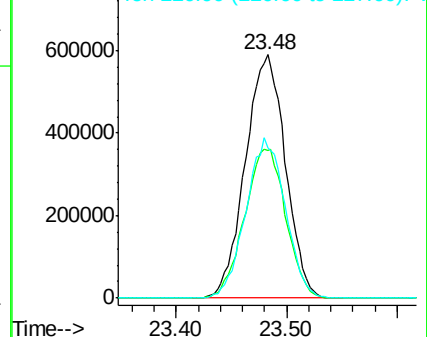
227 64.4 50.9 76.3

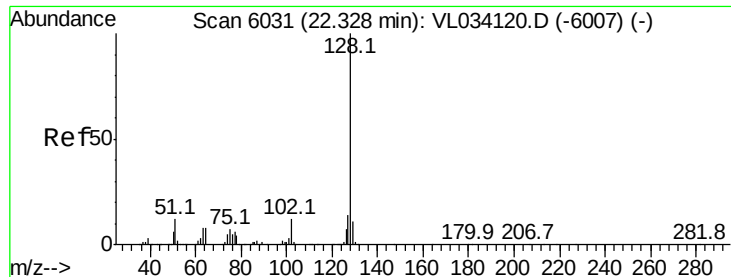


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

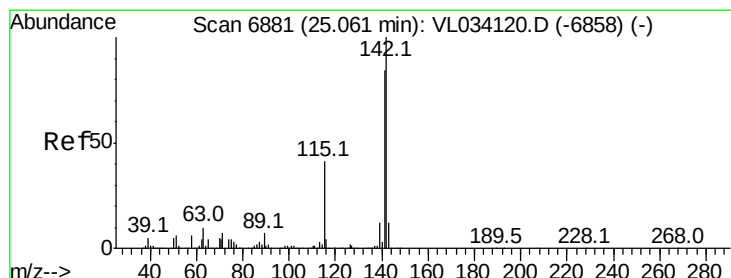
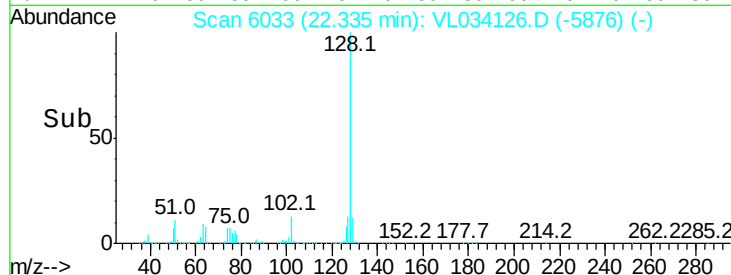
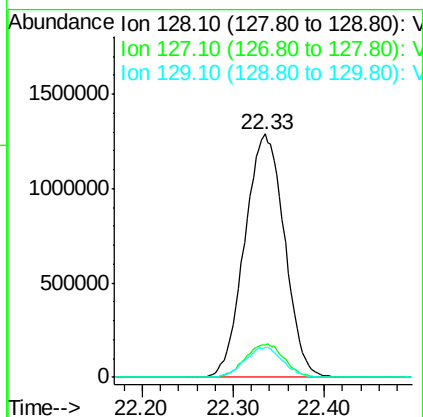
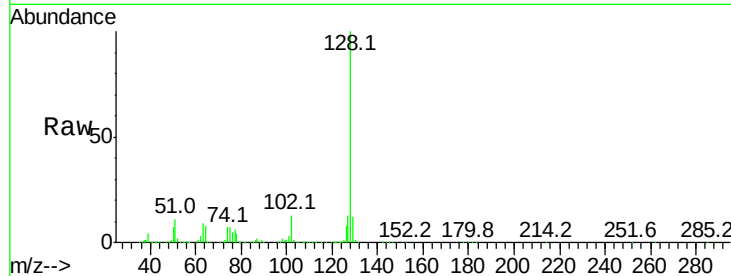




#79
Naphthalene
Concen: 11.952 ppbv
RT: 22.33 min Scan# 6033
Delta R.T. 0.01 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

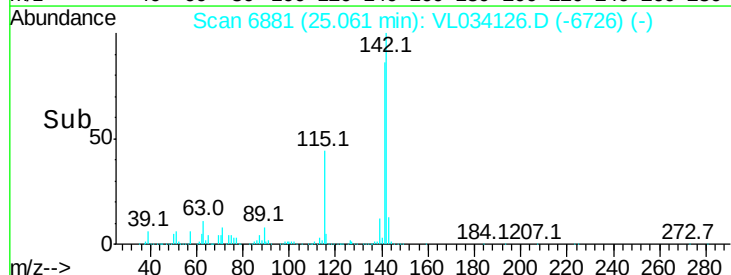
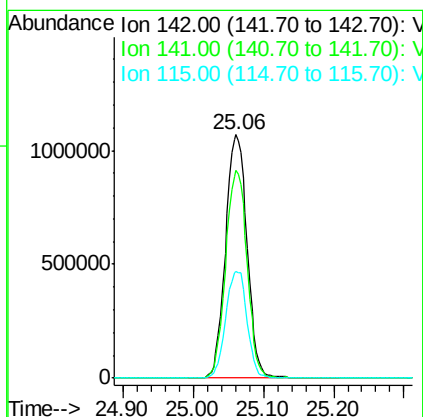
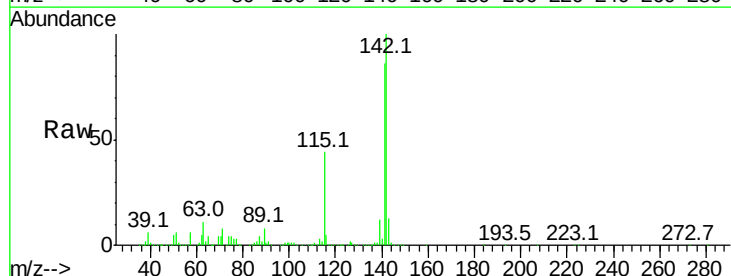
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

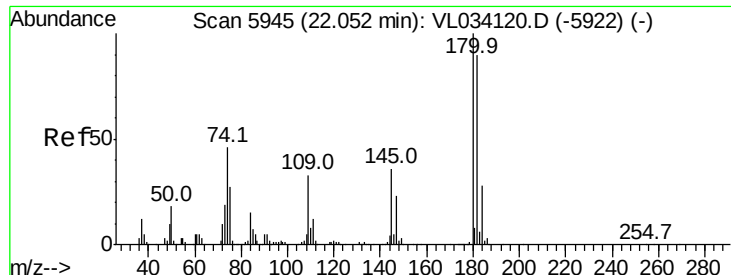
Tgt Ion:128 Resp: 3902434
Ion Ratio Lower Upper
128 100
127 13.3 10.9 16.3
129 12.2 8.5 12.7



#80
Naphthalene, 2-methyl-
Concen: 20.214 ppbv
RT: 25.06 min Scan# 6881
Delta R.T. -0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion:142 Resp: 2293167
Ion Ratio Lower Upper
142 100
141 84.8 67.6 101.4
115 43.5 34.6 52.0

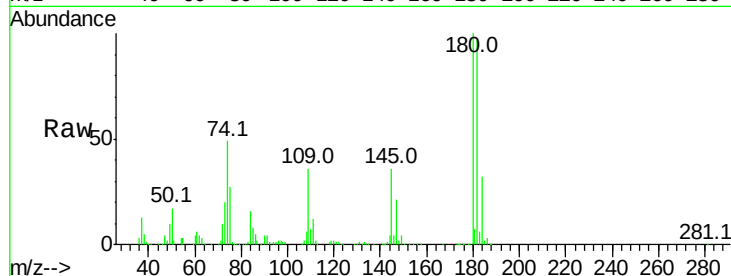




#81
 1,2,4-Trichlorobenzene
 Concen: 11.708 ppbv
 RT: 22.06 min Scan# 5949
 Delta R.T. 0.01 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 2081754
 Ion Ratio Lower Upper
 180 100
 182 96.5 77.0 115.4
 184 31.2 25.5 38.3



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

