

Data File : VL034304.D
Acq On : 16 Oct 2019 16:48
Operator : SY/AP
Sample : VSTDIC015
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Oct 16 17:15:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 16 16:52:05 2019
QLast Update : Wed Oct 16 16:52:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1168216	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2314424	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2601648	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	2126414	9.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	2862269	16.587	ppbv	91
3) Chlorodifluoromethane	2.97	51	1863105	13.602	ppbv	98
4) Chloromethane	3.12	50	1155656	14.357	ppbv	94
5) Vinyl Chloride	3.24	62	1065471	14.484	ppbv	97
6) Bromomethane	3.46	94	558154	16.263	ppbv	96
7) Chloroethane	3.55	64	395845	15.396	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	2266542	14.882	ppbv	96
9) Propene	2.99	41	876014	12.963	ppbv	96
10) Heptane	8.17	43	2375696	13.489	ppbv	98
11) Trichlorofluoromethane	3.95	101	2546866	16.215	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1752671	17.050	ppbv	100
13) Ethanol	3.60	45	128950	7.880	ppbv	98
14) Bromoethene	3.73	108	726542	17.287	ppbv	97
15) Acetone	3.84	43	2007530	12.822	ppbv	100
16) 1,3-Butadiene	3.31	39	1014680	14.850	ppbv	100
17) tert-Butyl alcohol	4.30	59	1130384	11.394	ppbv	100
18) 1,1-Dichloroethene	4.29	96	799103	17.823	ppbv	93
19) Isopropyl Alcohol	3.97	45	960089	9.972	ppbv	99
20) Methylene Chloride	4.35	84	714039	15.817	ppbv	99
21) Allyl Chloride	4.42	41	1411265	15.958	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	815805	18.186	ppbv	98
23) Vinyl Acetate	5.09	43	3124965	13.544	ppbv	99
24) 1,1-Dichloroethane	5.03	63	2181543	14.042	ppbv	100
25) Ethyl Acetate	5.70	43	3859012	13.034	ppbv	99
26) Hexane	5.71	57	1701268	13.813	ppbv	97
27) Carbon Disulfide	4.56	76	2084287	18.349	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	2645604	14.463	ppbv	99
29) Chloroform	5.78	83	2638168	14.990	ppbv	94
30) Cyclohexane	7.18	84	1358457	15.277	ppbv	97
31) cis-1,2-Dichloroethene	5.57	61	1839422	14.651	ppbv	99
32) 1,1,1-Trichloroethane	6.55	97	2623751	15.458	ppbv	99
34) 2-Butanone	5.27	43	2680501	11.343	ppbv	100
35) Carbon Tetrachloride	7.06	117	2759622	14.352	ppbv	99
36) Benzene	6.93	78	3126870	12.233	ppbv	97
37) 1,2-Dichloroethane	6.34	62	2348621	12.918	ppbv	100
38) Trichloroethene	7.89	130	1232976	13.500	ppbv	95
39) 1,2-Dichloropropane	7.66	63	1387366	12.080	ppbv	98
40) 1,4-Dioxane	7.88	88	372245	10.016	ppbv #	1
41) Tetrahydrofuran	6.07	42	1579576	11.868	ppbv	99
42) Bromodichloromethane	7.84	83	2912846	13.350	ppbv	95
43) Methyl Methacrylate	8.07	69	1438744	13.625	ppbv	96

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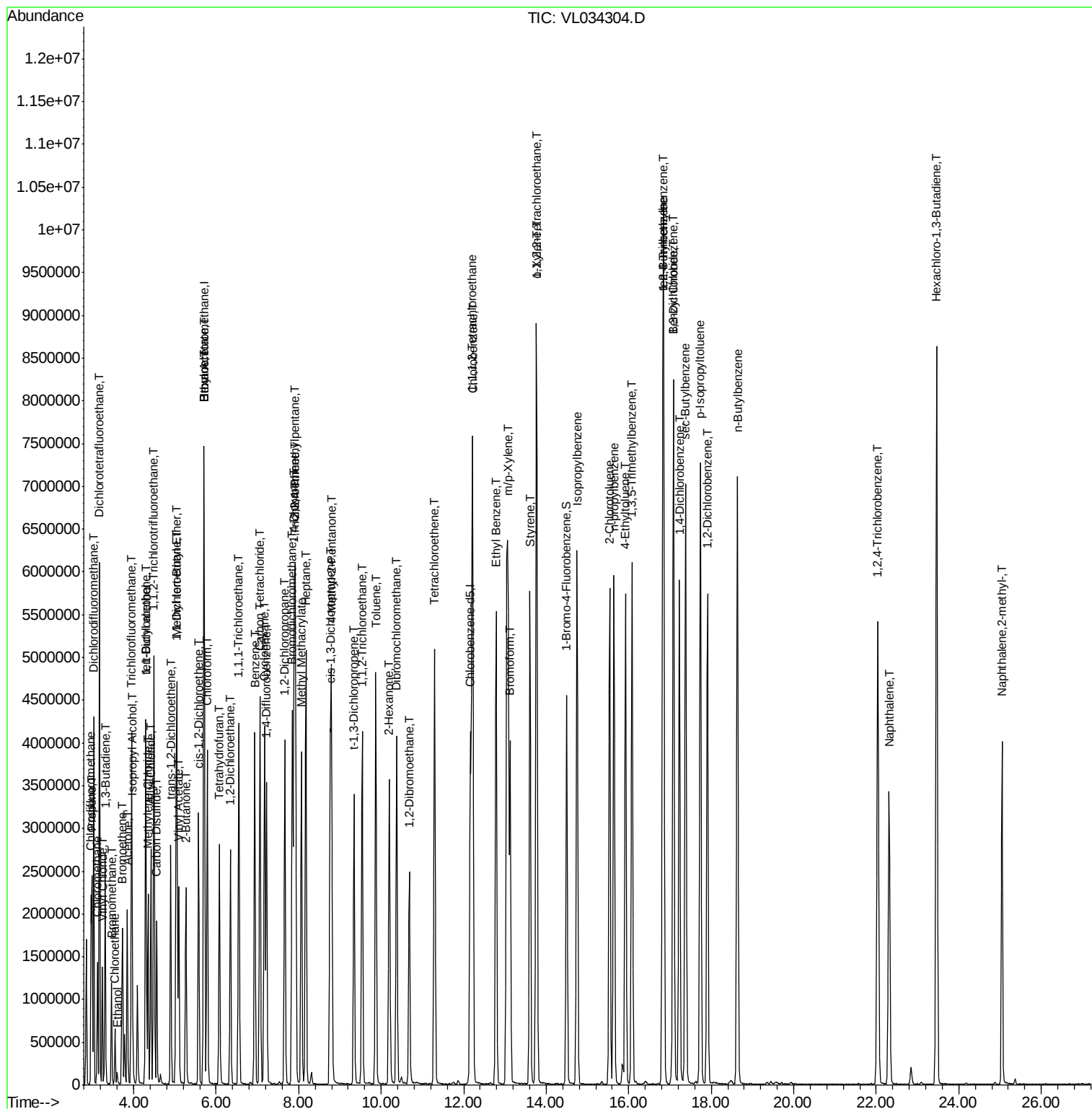
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	5477307	11.131	ppbv	97
45) t-1,3-Dichloropropene	9.34	75	1988069	15.923	ppbv	96
46) cis-1,3-Dichloropropene	8.76	75	2146234	14.291	ppbv	98
47) 1,1,2-Trichloroethane	9.54	97	1384241	13.422	ppbv	98
48) Dibromochloromethane	10.37	129	2482989	15.190	ppbv	99
49) Bromoform	13.12	173	2294501	17.346	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	3946591	11.475	ppbv	97
51) 2-Hexanone	10.19	43	3430853	11.887	ppbv #	99
52) Tetrachloroethene	11.29	164	1219355	14.439	ppbv	98
53) Toluene	9.87	91	3651267	13.070	ppbv	98
54) 1,2-Dibromoethane	10.68	107	2092441	13.643	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	1633831	14.082	ppbv	97
57) Chlorobenzene	12.22	112	2801002	12.365	ppbv	98
58) Ethyl Benzene	12.78	91	4953587	11.800	ppbv	95
59) m/p-Xylene	13.07	91	3890362	11.189	ppbv #	18
60) o-Xylene	13.77	91	4144129	11.920	ppbv	99
61) Styrene	13.60	104	3248062	13.043	ppbv	100
62) Isopropylbenzene	14.75	105	5358043	11.905	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.76	83	3019190	10.590	ppbv	99
64) n-propylbenzene	15.64	120	1490283	13.088	ppbv	87
65) tert-Butylbenzene	16.83	119	2536934	6.451	ppbv #	22
66) Benzyl Chloride	17.08	91	2669890	19.190	ppbv	98
67) sec-Butylbenzene	17.38	105	6514306	11.584	ppbv	97
69) p-Isopropyltoluene	17.74	119	5508403	12.097	ppbv	98
70) n-Butylbenzene	18.64	91	5930909	11.186	ppbv	97
71) 2-Chlorotoluene	15.54	91	4403809	11.976	ppbv	98
72) 4-Ethyltoluene	15.92	105	4807406	12.239	ppbv	98
73) 1,3,5-Trimethylbenzene	16.08	105	4663034	12.288	ppbv	95
74) 1,2,4-Trimethylbenzene	16.85	105	4695861	11.654	ppbv	97
75) 1,3-Dichlorobenzene	17.09	146	2841041	13.142	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	2876515	12.993	ppbv	100
77) 1,2-Dichlorobenzene	17.91	146	2805776	12.823	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	2406923	16.608	ppbv	100
79) Naphthalene	22.31	128	4179080	11.781	ppbv	98
80) Naphthalene,2-methyl-	25.05	142	2148932	13.027	ppbv	94
81) 1,2,4-Trichlorobenzene	22.04	180	2544260	12.948	ppbv	99

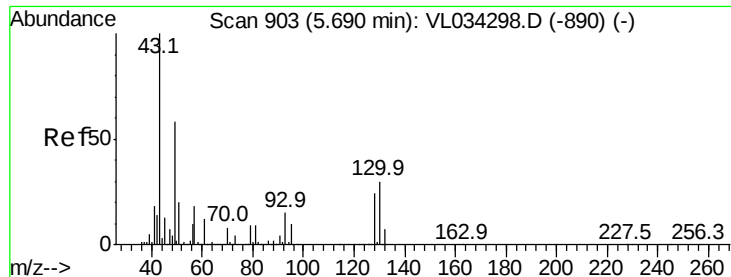
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

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Instrument :

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VSTDIC015

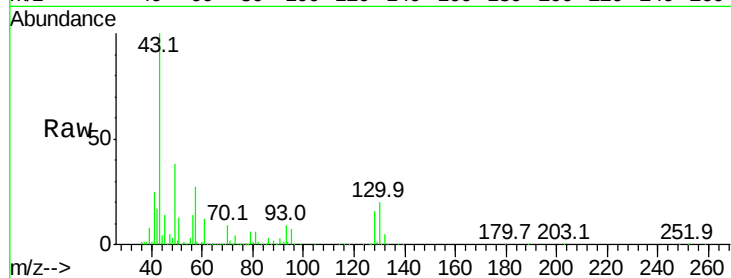
Tgt Ion: 49 Resp: 1168216

Ion Ratio Lower Upper

49 100

128 41.4 20.6 61.8

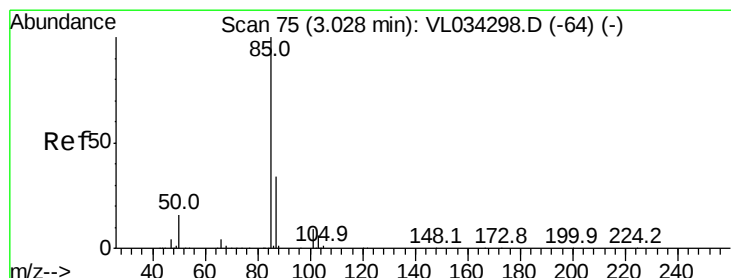
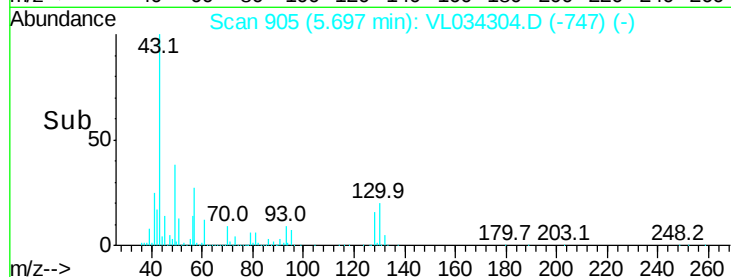
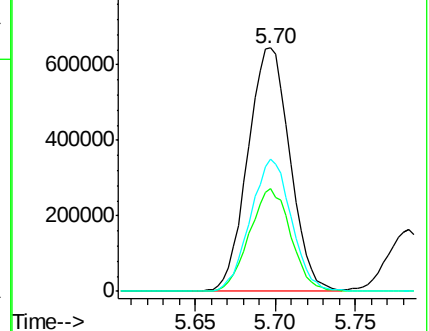
130 53.0 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 16.587 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL034304.D

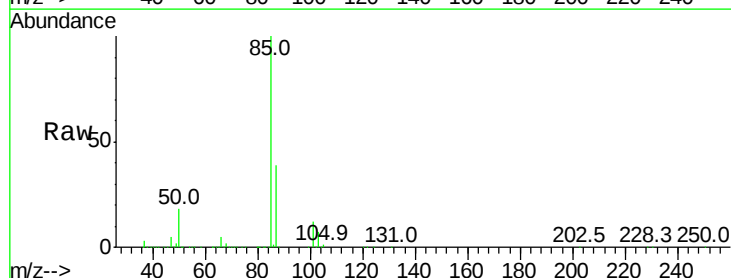
Acq: 16 Oct 2019 16:48

Tgt Ion: 85 Resp: 2862269

Ion Ratio Lower Upper

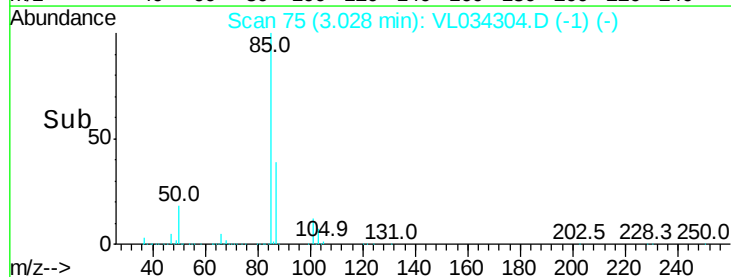
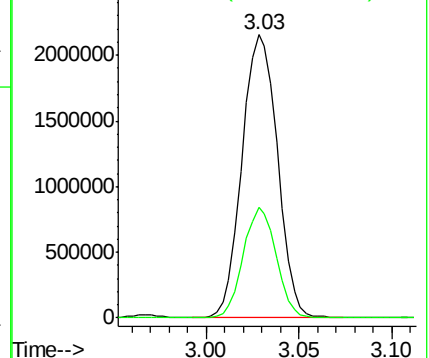
85 100

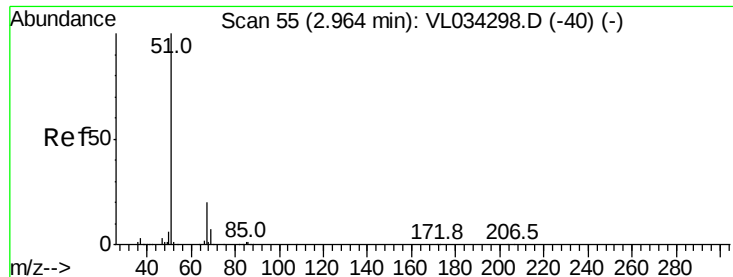
87 38.9 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.602 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

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ClientSampleId :

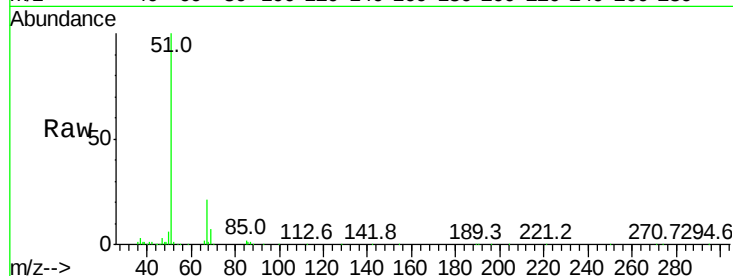
VSTDIC015

Tgt Ion: 51 Resp: 1863105

Ion Ratio Lower Upper

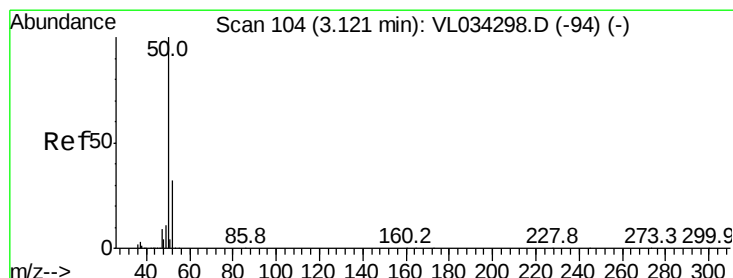
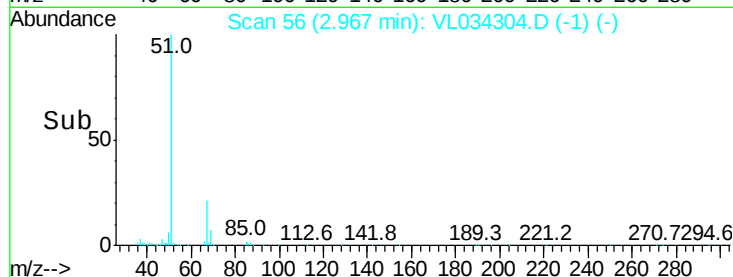
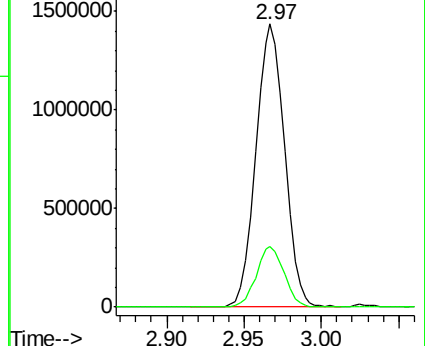
51 100

67 20.9 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 14.357 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL034304.D

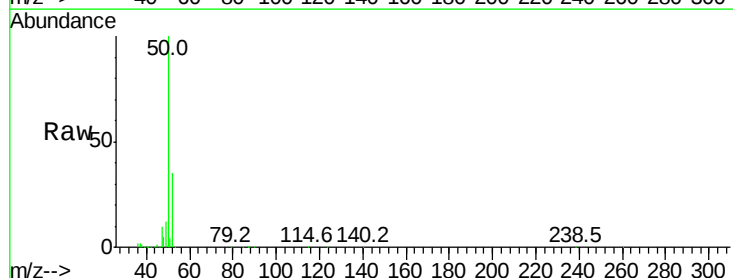
Acq: 16 Oct 2019 16:48

Tgt Ion: 50 Resp: 1155656

Ion Ratio Lower Upper

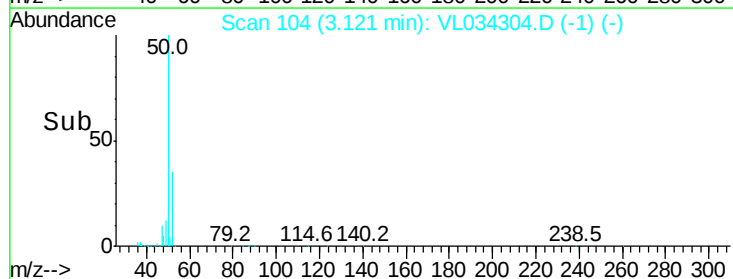
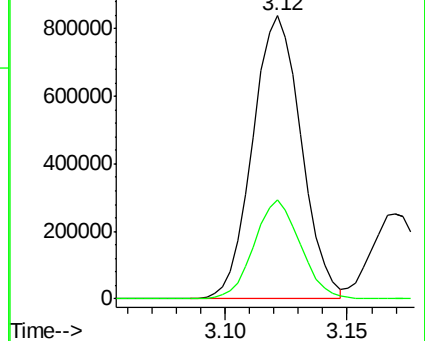
50 100

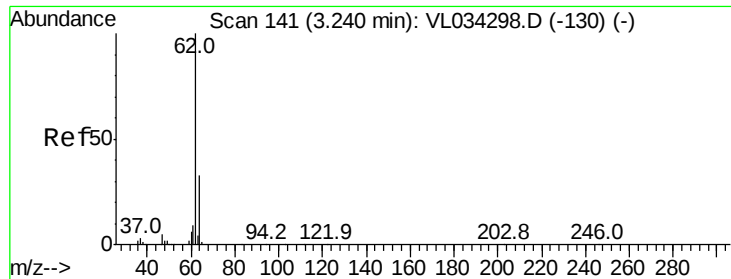
52 35.0 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 14.484 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.00 min

Lab File: VL034304.D

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Instrument :

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ClientSampleId :

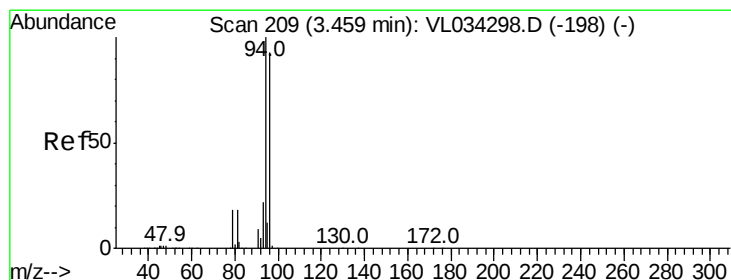
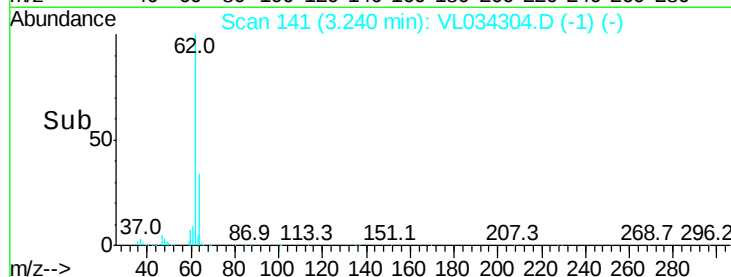
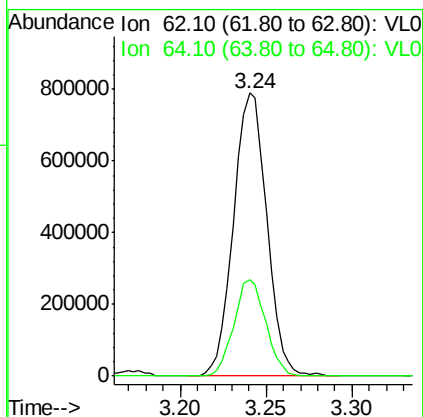
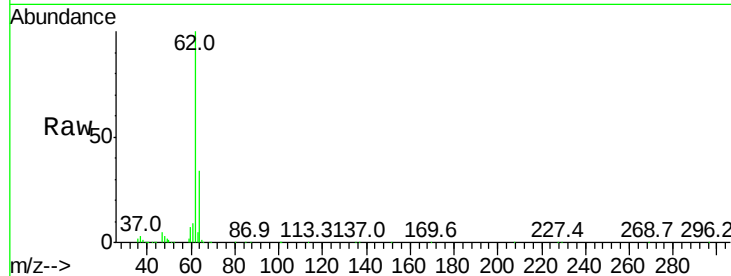
VSTDIC015

Tgt Ion: 62 Resp: 1065471

Ion Ratio Lower Upper

62 100

64 34.3 26.0 39.0



#6

Bromomethane

Concen: 16.263 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034304.D

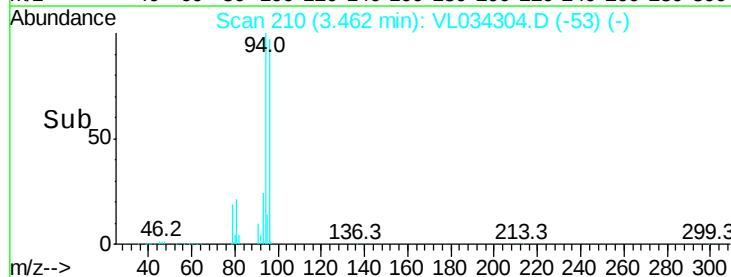
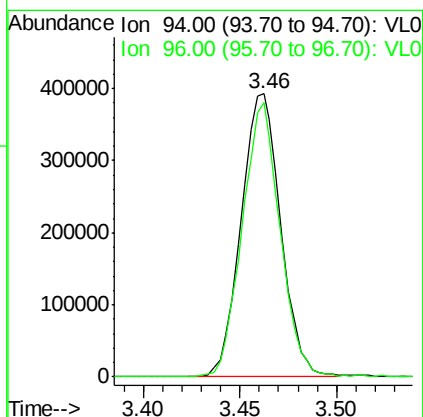
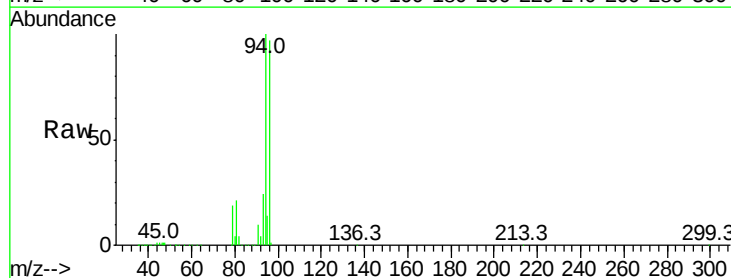
Acq: 16 Oct 2019 16:48

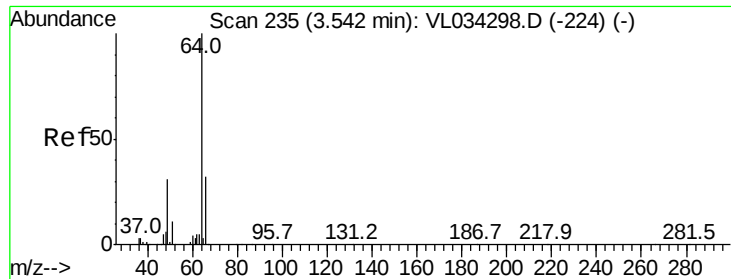
Tgt Ion: 94 Resp: 558154

Ion Ratio Lower Upper

94 100

96 96.8 74.6 112.0





#7

Chloroethane

Concen: 15.396 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

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ClientSampleId :

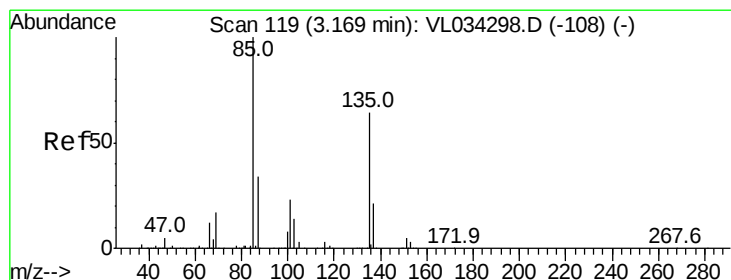
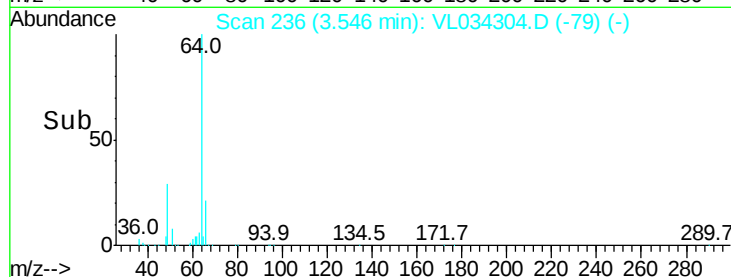
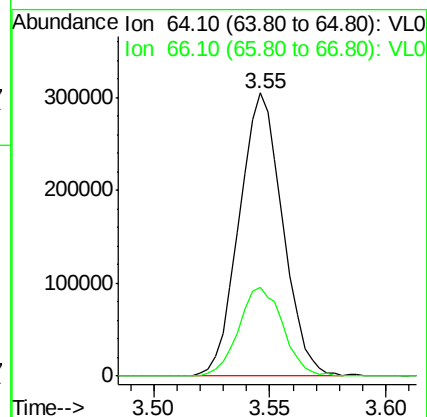
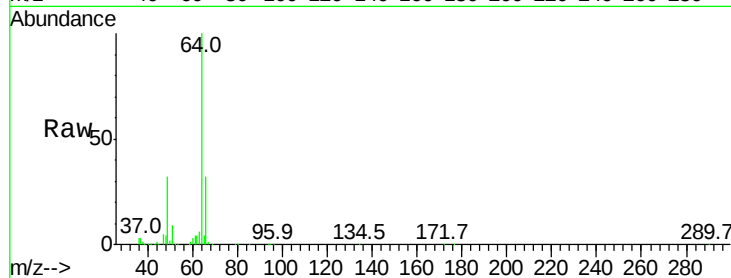
VSTDIC015

Tgt Ion: 64 Resp: 395845

Ion Ratio Lower Upper

64 100

66 31.5 25.4 38.0



#8

Dichlorotetrafluoroethane

Concen: 14.882 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.00 min

Lab File: VL034304.D

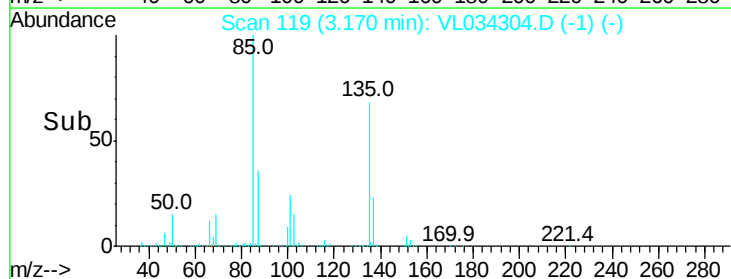
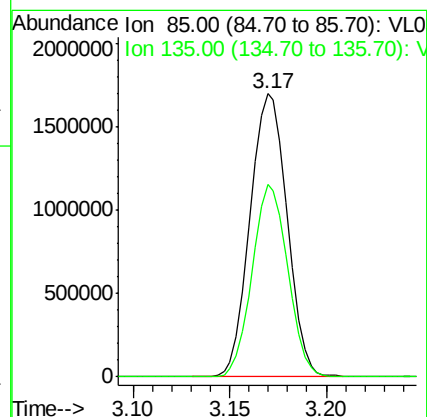
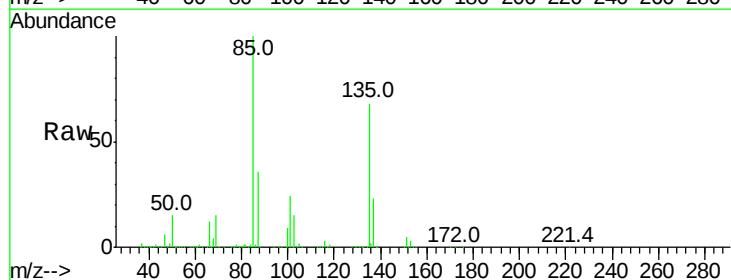
Acq: 16 Oct 2019 16:48

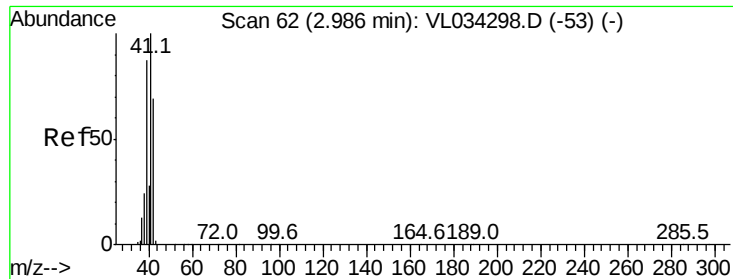
Tgt Ion: 85 Resp: 2266542

Ion Ratio Lower Upper

85 100

135 65.6 50.2 75.2





#9

Propene

Concen: 12.963 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

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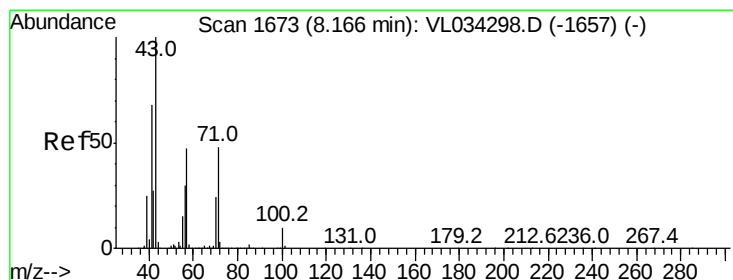
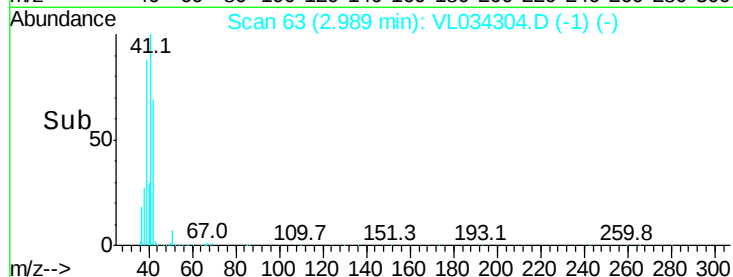
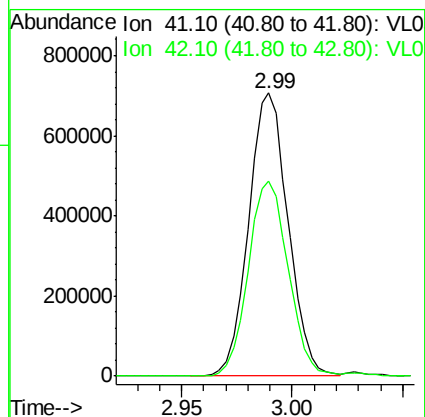
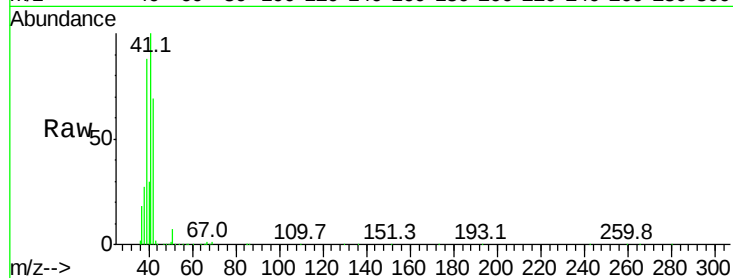
VSTDIC015

Tgt Ion: 41 Resp: 876014

Ion Ratio Lower Upper

41 100

42 70.9 53.9 80.9



#10

Heptane

Concen: 13.489 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VL034304.D

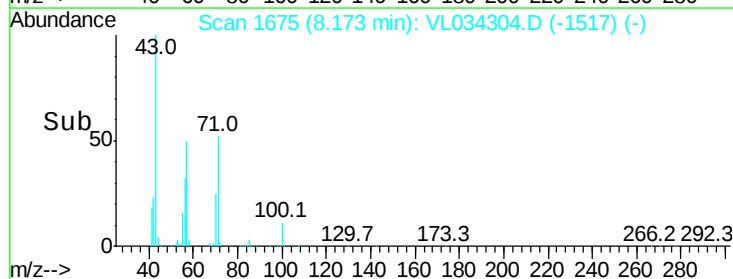
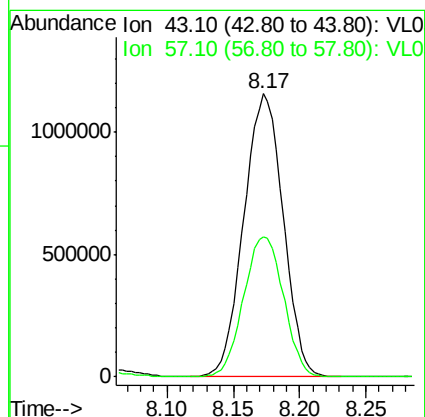
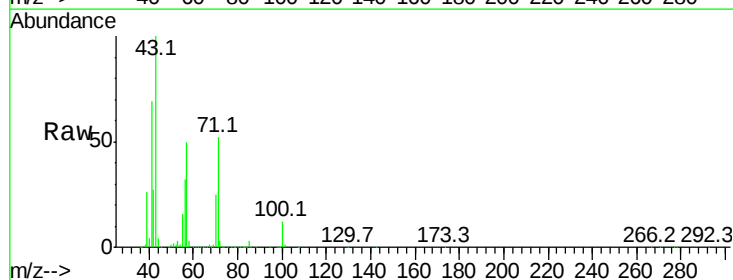
Acq: 16 Oct 2019 16:48

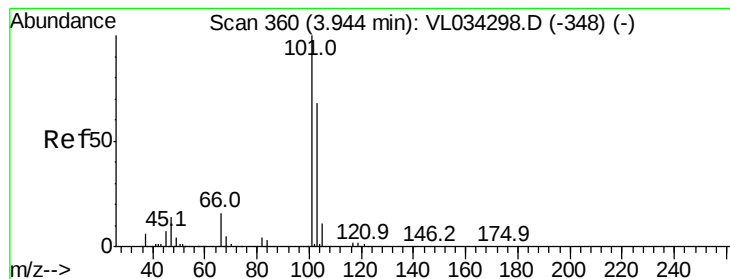
Tgt Ion: 43 Resp: 2375696

Ion Ratio Lower Upper

43 100

57 50.4 39.5 59.3





#11

Trichlorofluoromethane

Concen: 16.215 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

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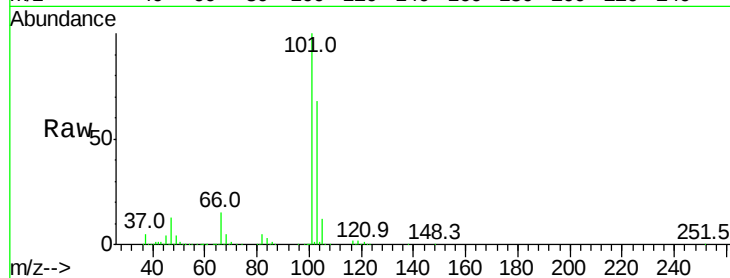
VSTDIC015

Tgt Ion:101 Resp: 2546866

Ion Ratio Lower Upper

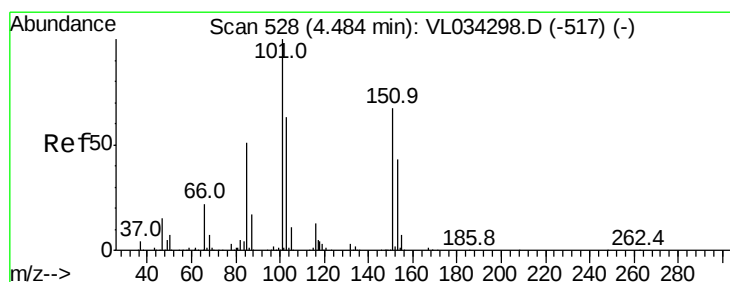
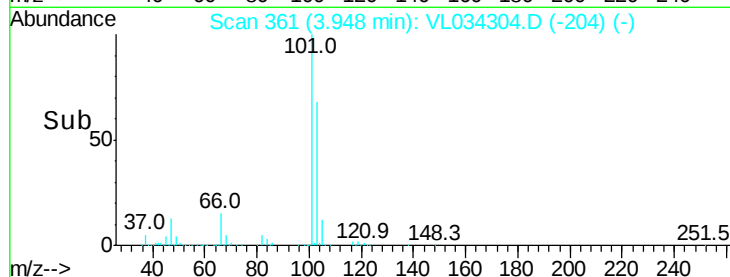
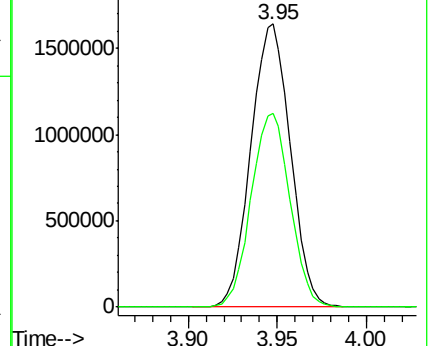
101 100

103 68.4 54.5 81.7



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: 17.050 ppbv

RT: 4.49 min Scan# 530

Delta R.T. 0.01 min

Lab File: VL034304.D

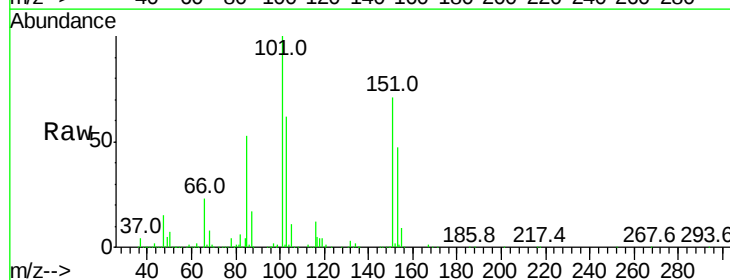
Acq: 16 Oct 2019 16:48

Tgt Ion:101 Resp: 1752671

Ion Ratio Lower Upper

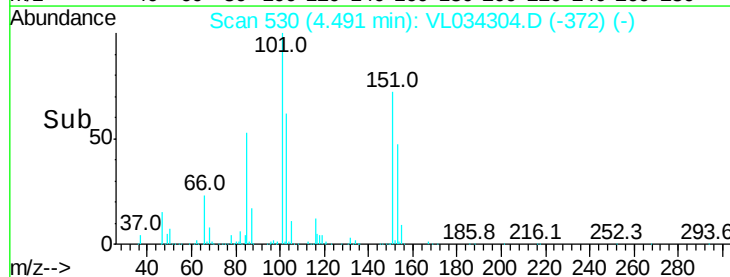
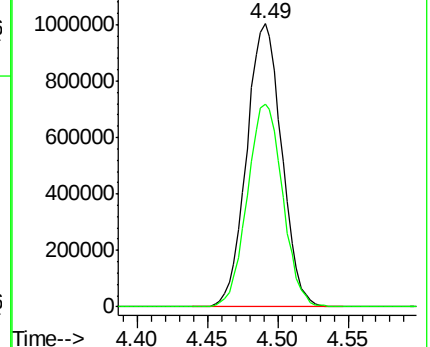
101 100

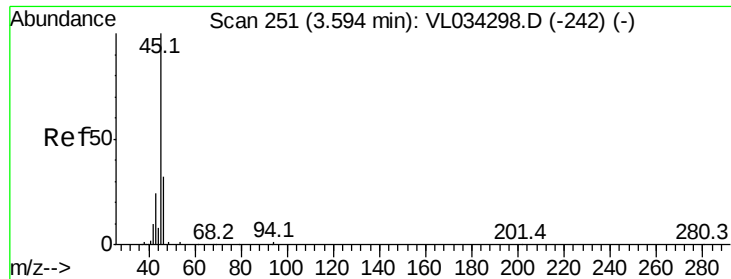
151 72.1 57.4 86.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.880 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

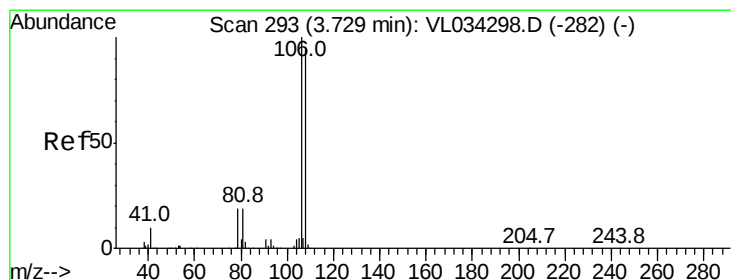
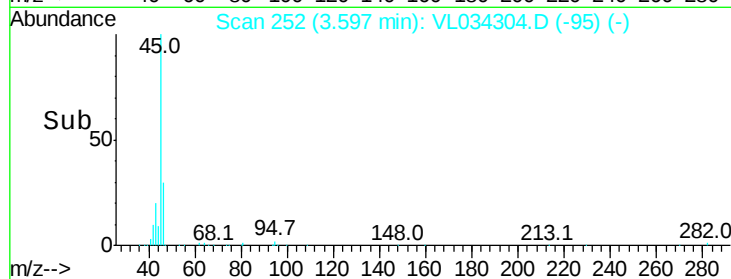
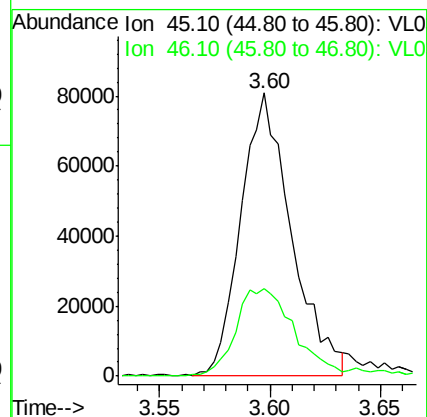
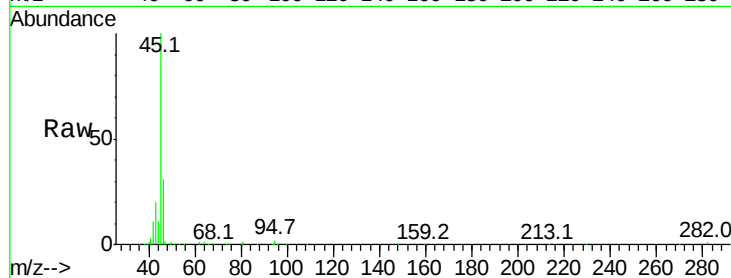
VSTDIC015

Tgt Ion: 45 Resp: 128950

Ion Ratio Lower Upper

45 100

46 38.4 15.8 63.2



#14

Bromoethene

Concen: 17.287 ppbv

RT: 3.73 min Scan# 294

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

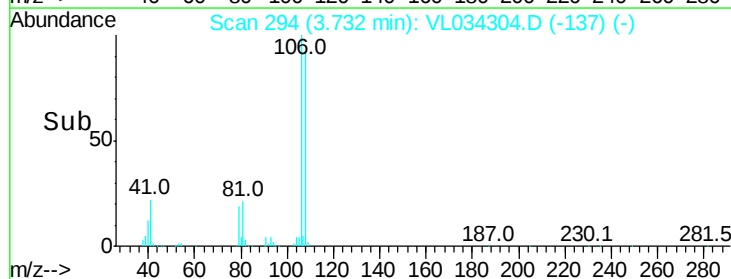
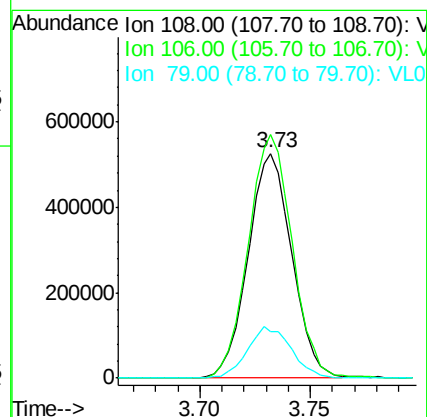
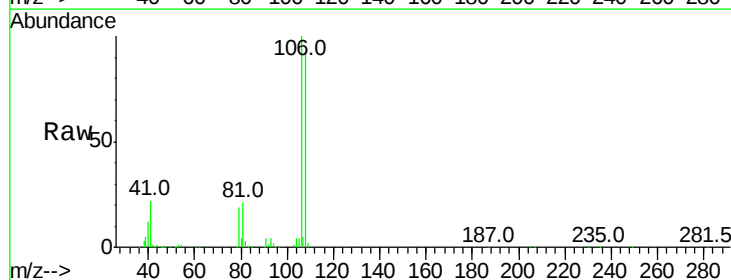
Tgt Ion: 108 Resp: 726542

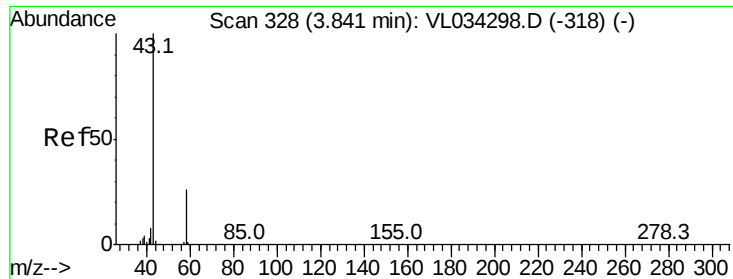
Ion Ratio Lower Upper

108 100

106 109.1 84.8 127.2

79 23.2 17.0 25.4





#15

Acetone

Concen: 12.822 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

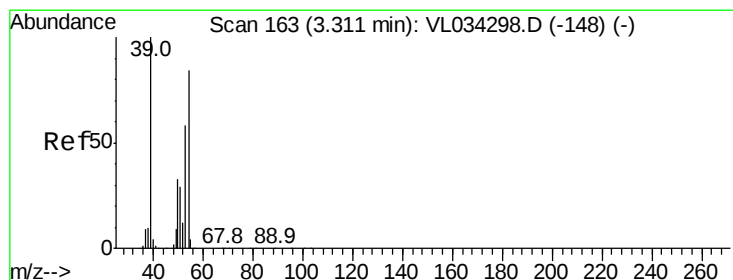
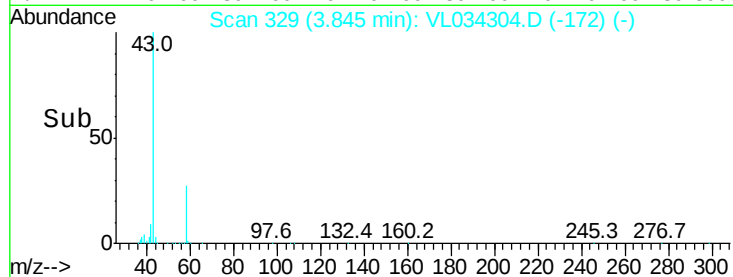
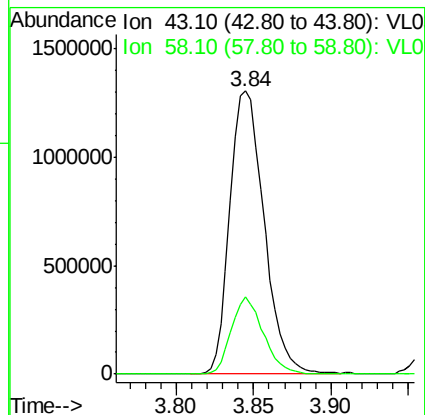
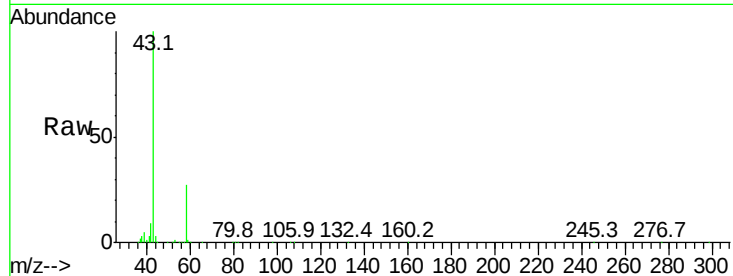
VSTDIC015

Tgt Ion: 43 Resp: 2007530

Ion Ratio Lower Upper

43 100

58 25.6 20.4 30.6



#16

1,3-Butadiene

Concen: 14.850 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.00 min

Lab File: VL034304.D

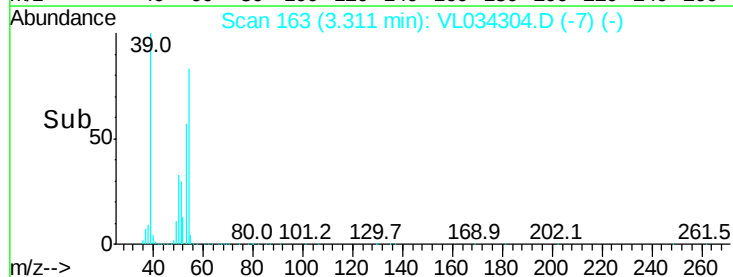
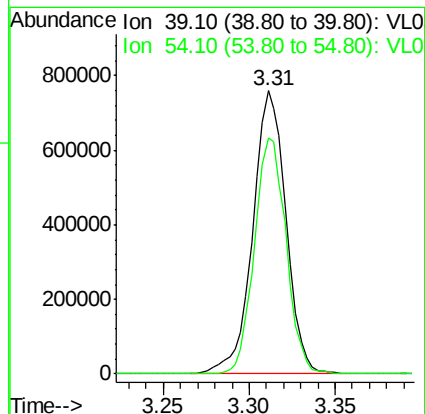
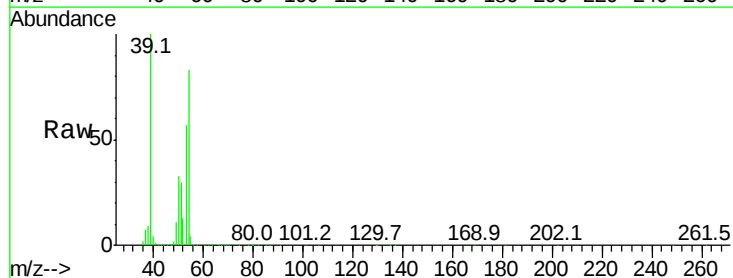
Acq: 16 Oct 2019 16:48

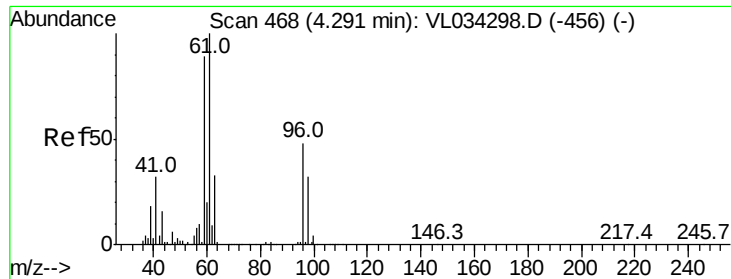
Tgt Ion: 39 Resp: 1014680

Ion Ratio Lower Upper

39 100

54 80.1 63.9 95.9

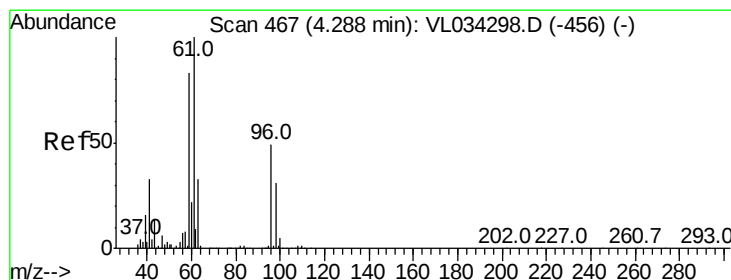
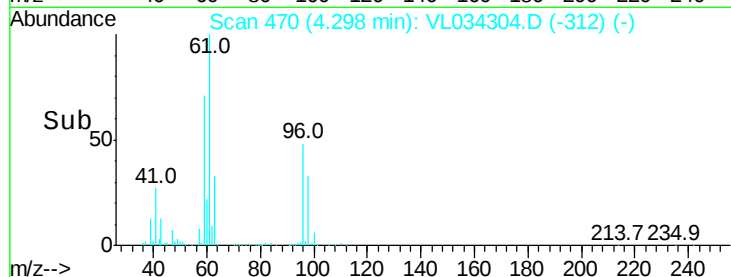
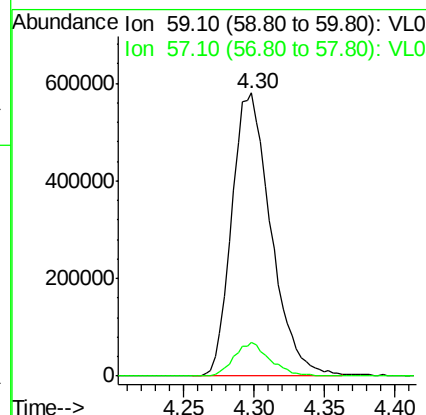
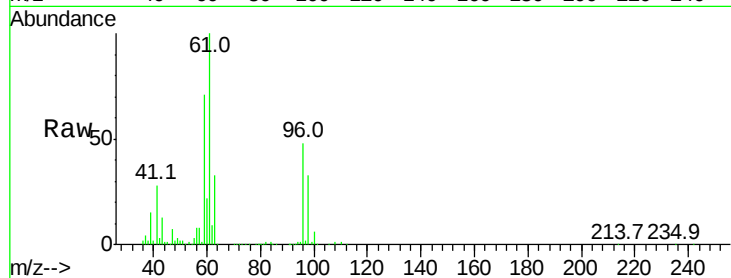




#17
tert-Butyl alcohol
Concen: 11.394 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.01 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

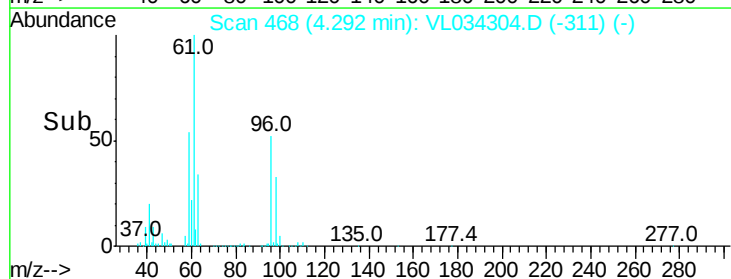
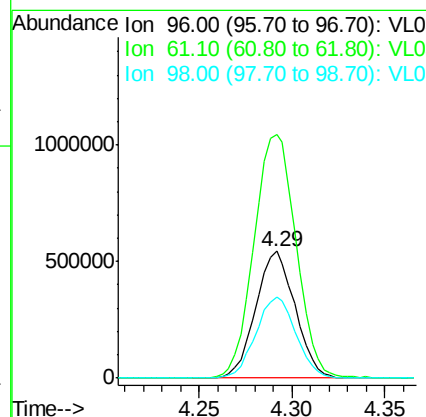
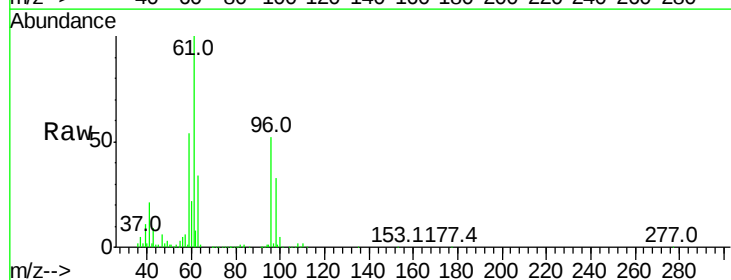
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

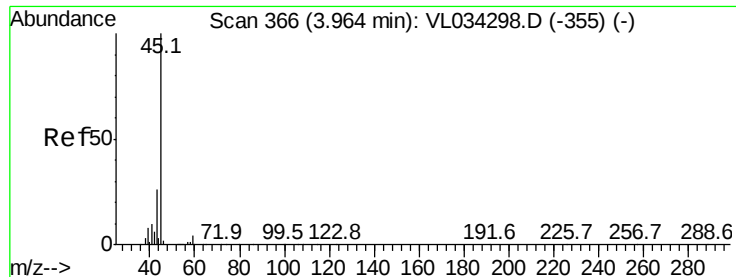
Tgt Ion: 59 Resp: 1130384
Ion Ratio Lower Upper
59 100
57 11.0 8.8 13.2



#18
1,1-Dichloroethene
Concen: 17.823 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.00 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

Tgt Ion: 96 Resp: 799103
Ion Ratio Lower Upper
96 100
61 192.0 164.5 246.7
98 63.9 51.7 77.5





#19

Isopropyl Alcohol

Concen: 9.972 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

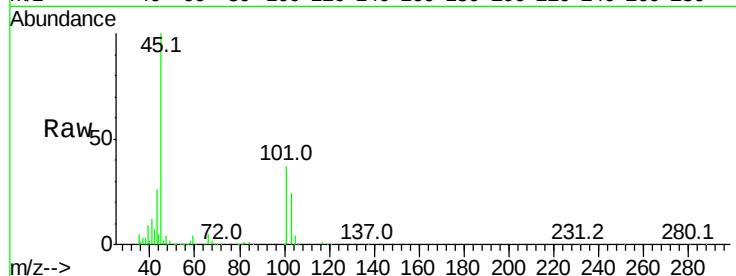
VSTDIC015

Tgt Ion: 45 Resp: 960089

Ion Ratio Lower Upper

45 100

58 2.1 1.4 2.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

600000

500000

400000

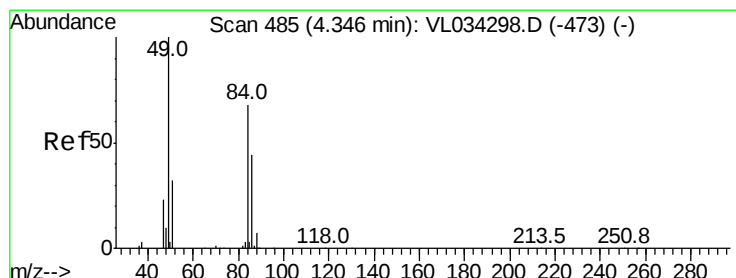
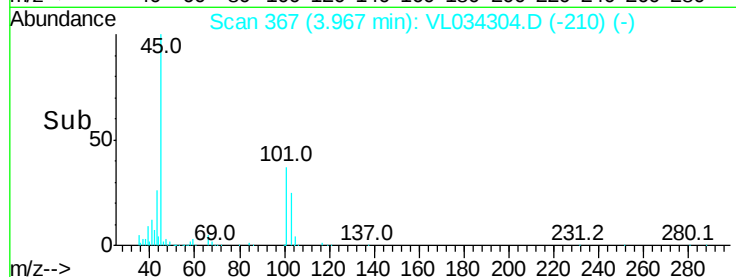
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 15.817 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Tgt Ion: 84 Resp: 714039

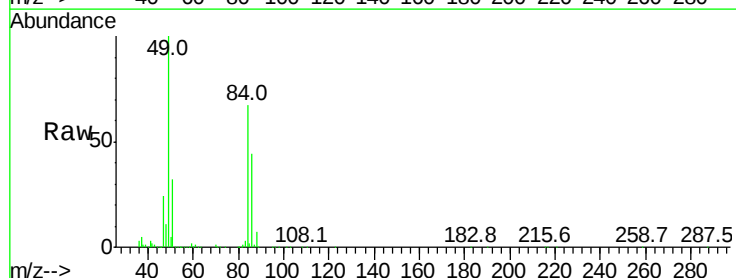
Ion Ratio Lower Upper

84 100

49 149.4 118.5 177.7

51 47.3 38.8 58.2

86 66.1 51.7 77.5



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

1000000

800000

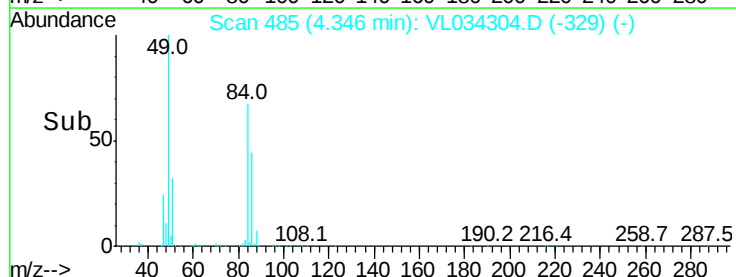
600000

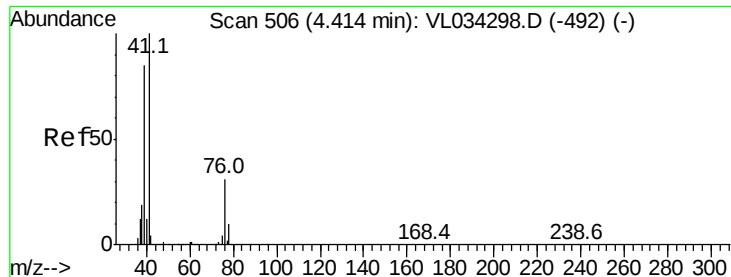
400000

200000

0

Time-->





#21

Allyl Chloride

Concen: 15.958 ppbv

RT: 4.42 min Scan# 507

Delta R.T. 0.00 min

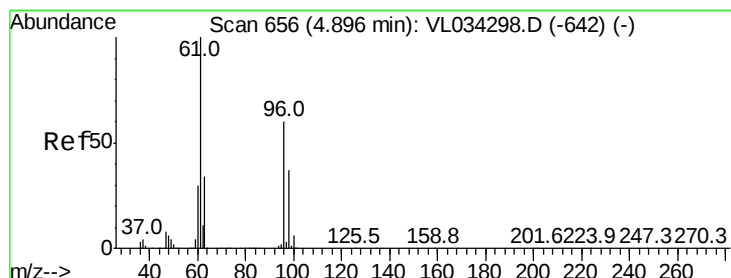
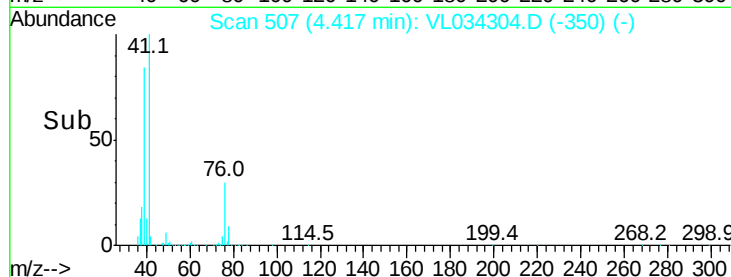
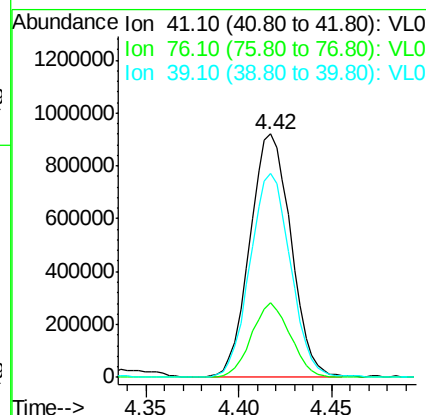
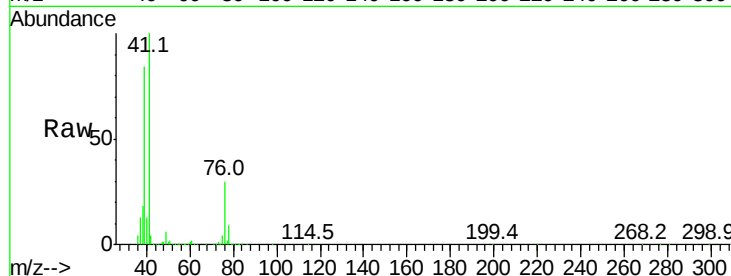
Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 41 Resp: 1411265

Ion	Ratio	Lower	Upper
41	100		
76	29.2	22.8	34.2
39	82.8	66.0	99.0



#22

trans-1,2-Dichloroethene

Concen: 18.186 ppbv

RT: 4.90 min Scan# 657

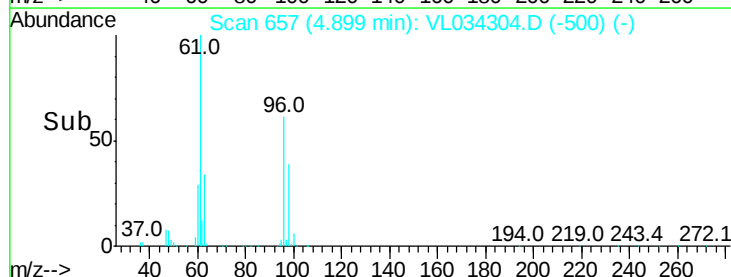
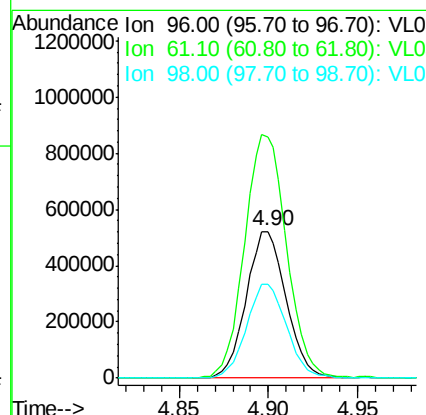
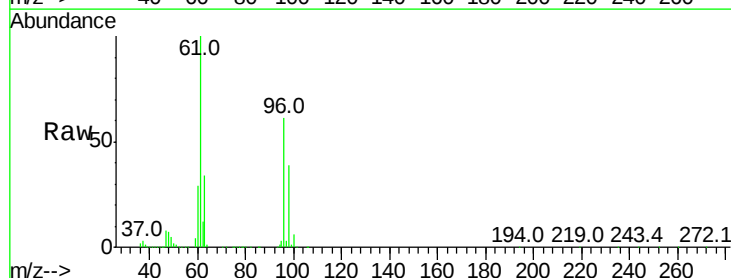
Delta R.T. 0.00 min

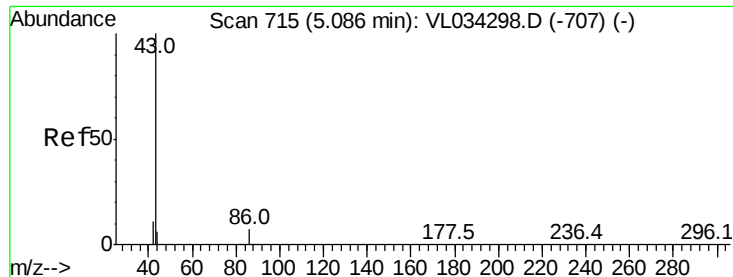
Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Tgt Ion: 96 Resp: 815805

Ion	Ratio	Lower	Upper
96	100		
61	164.8	133.8	200.6
98	63.7	49.4	74.0





#23

Vinyl Acetate

Concen: 13.544 ppbv

RT: 5.09 min Scan# 716

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3124965

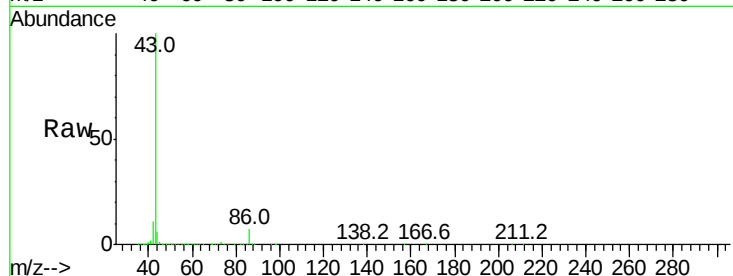
Ion	Ratio	Lower	Upper
43	100		
86	7.1	5.0	7.4
42	11.3	8.6	13.0
44	5.9	4.8	7.2

43 100

86 7.1 5.0 7.4

42 11.3 8.6 13.0

44 5.9 4.8 7.2

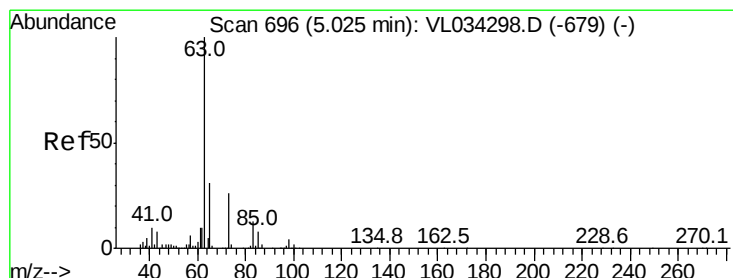
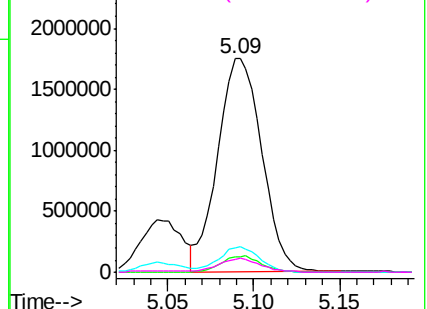
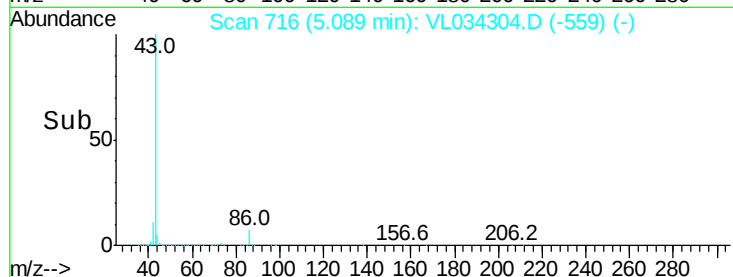


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 14.042 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

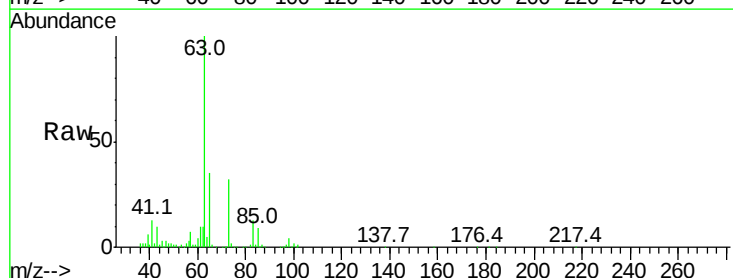
Tgt Ion: 63 Resp: 2181543

Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.0	6.0
100	2.4	1.1	3.5

63 100

98 4.1 2.0 6.0

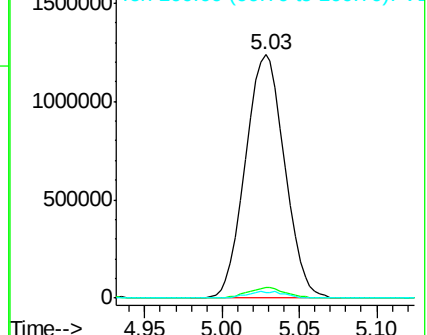
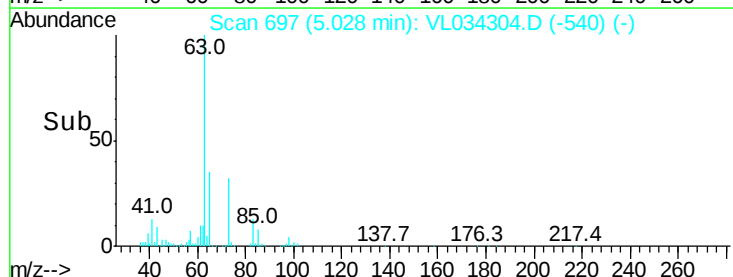
100 2.4 1.1 3.5

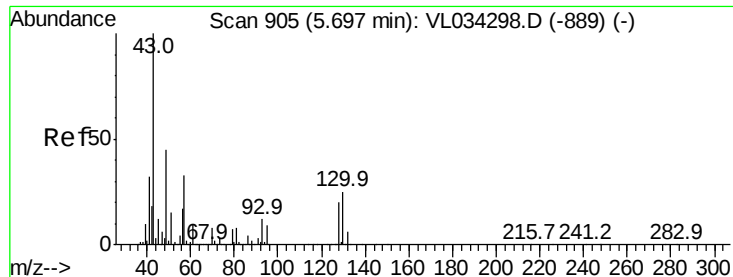


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 13.034 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3859012

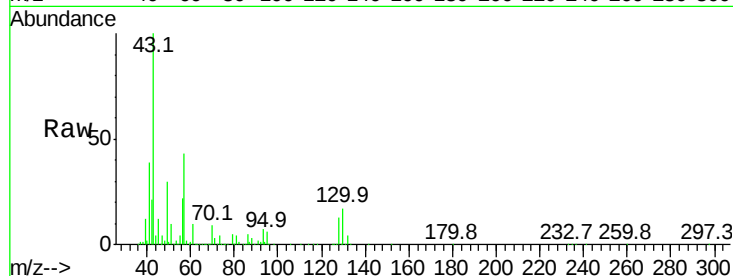
Ion Ratio Lower Upper

43 100

45 10.9 8.3 12.5

61 9.8 7.7 11.5

70 7.4 5.4 8.2

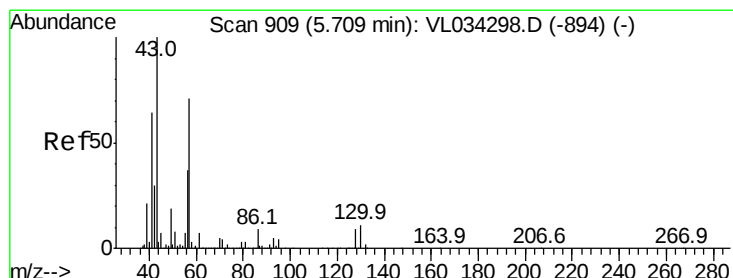
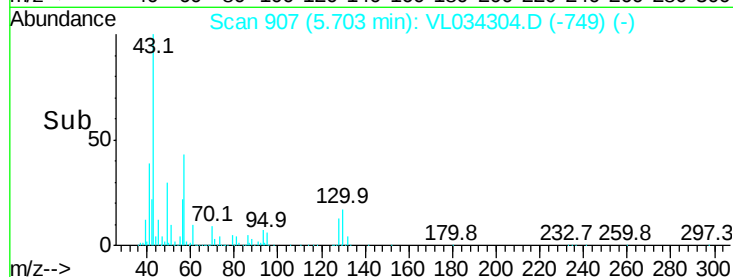
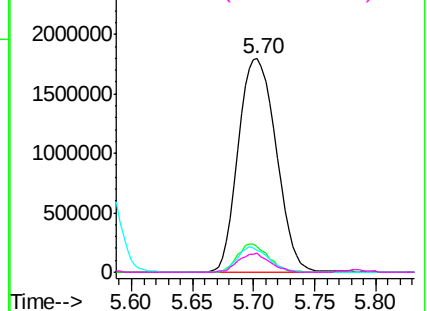


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 13.813 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Tgt Ion: 57 Resp: 1701268

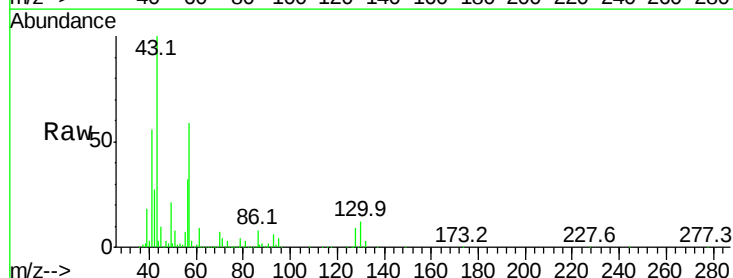
Ion Ratio Lower Upper

57 100

41 93.8 76.5 114.7

43 228.2 188.5 282.7

56 53.3 42.8 64.2

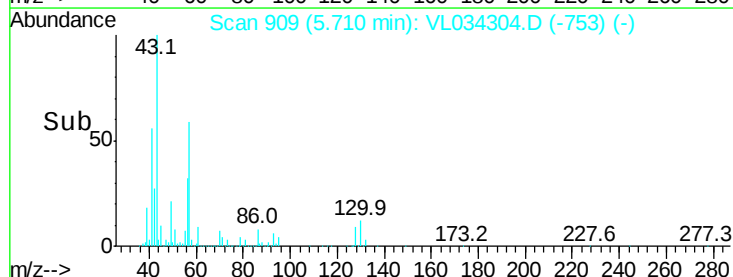
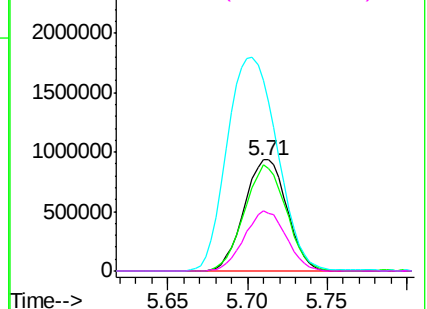


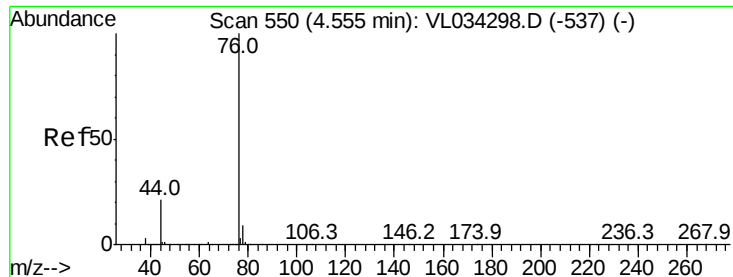
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 18.349 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

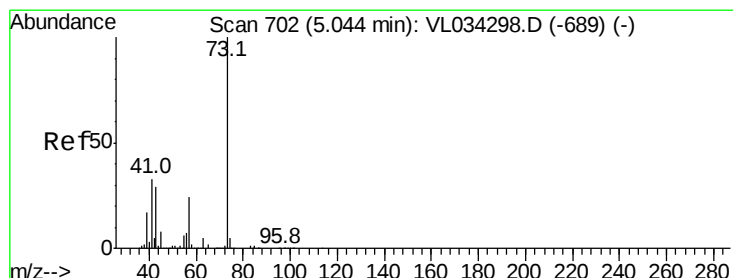
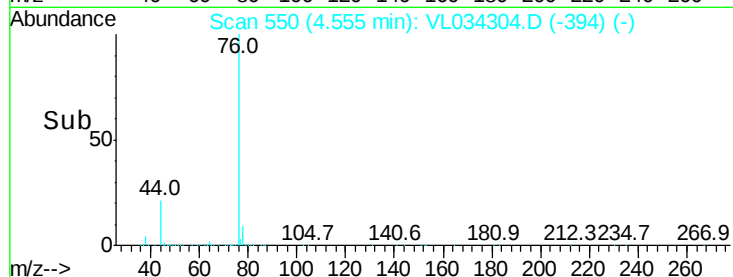
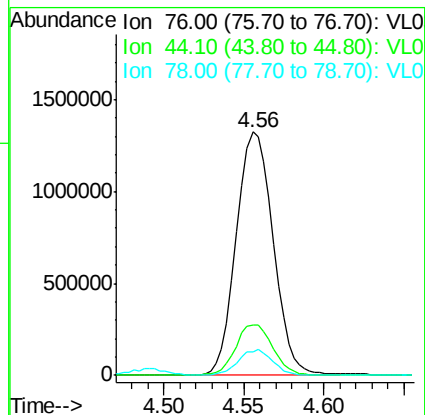
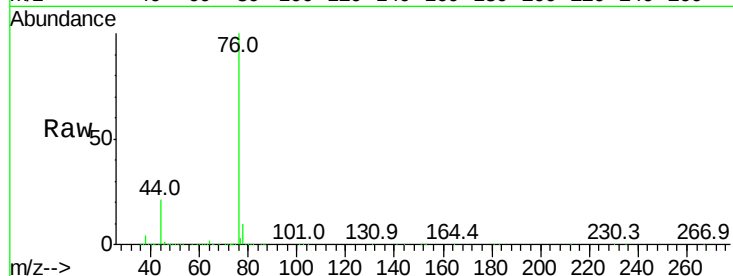
Tgt Ion: 76 Resp: 2084287

Ion Ratio Lower Upper

76 100

44 21.2 17.3 25.9

78 9.8 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 14.463 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL034304.D

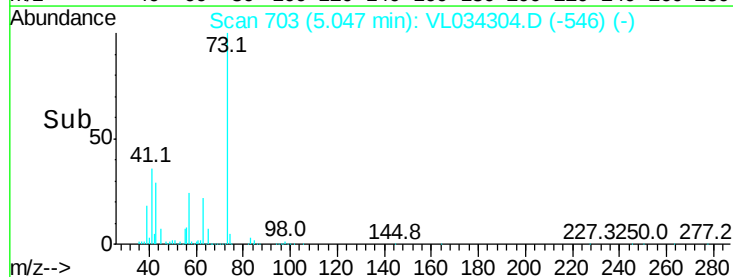
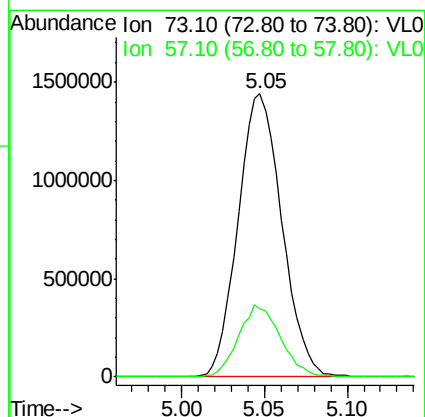
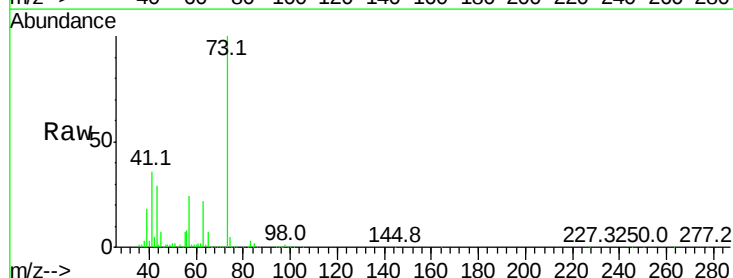
Acq: 16 Oct 2019 16:48

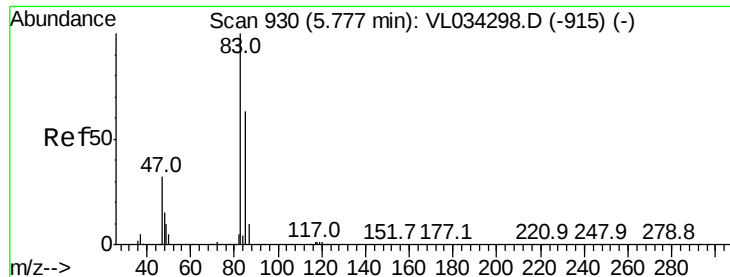
Tgt Ion: 73 Resp: 2645604

Ion Ratio Lower Upper

73 100

57 24.6 19.2 28.8





#29

Chloroform

Concen: 14.990 ppbv

RT: 5.78 min Scan# 932

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

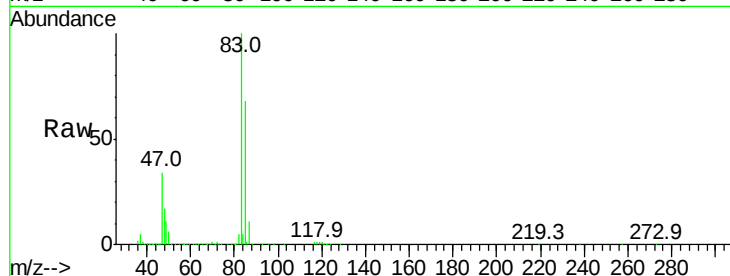
VSTDIC015

Tgt Ion: 83 Resp: 2638168

Ion Ratio Lower Upper

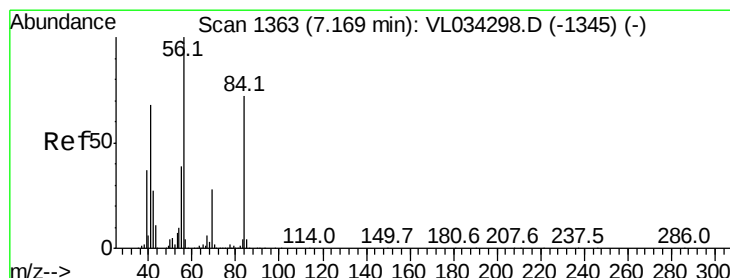
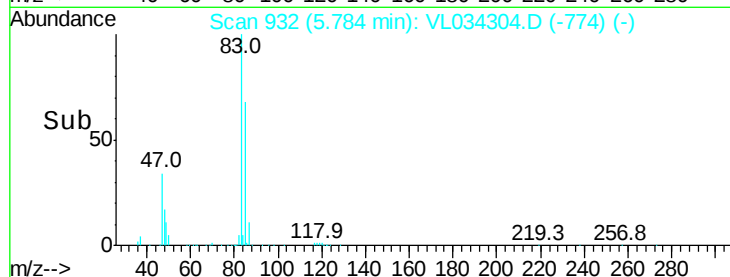
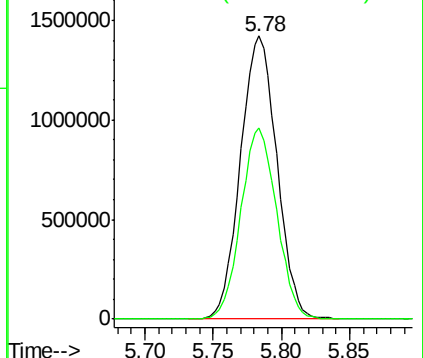
83 100

85 67.5 50.5 75.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 15.277 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

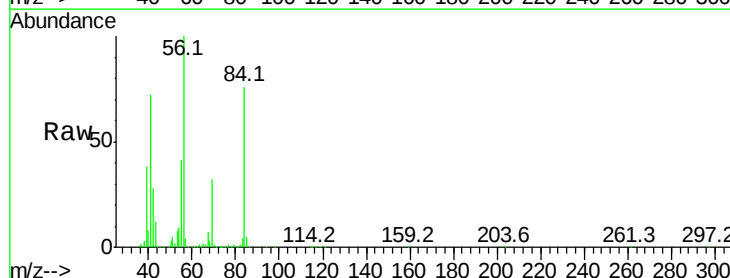
Tgt Ion: 84 Resp: 1358457

Ion Ratio Lower Upper

84 100

56 144.5 119.4 179.0

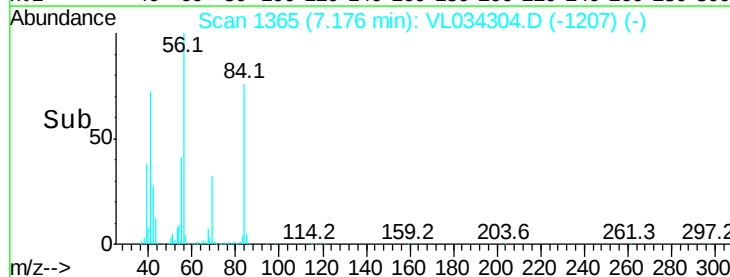
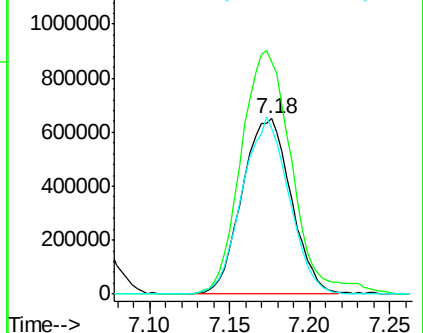
41 96.8 78.7 118.1

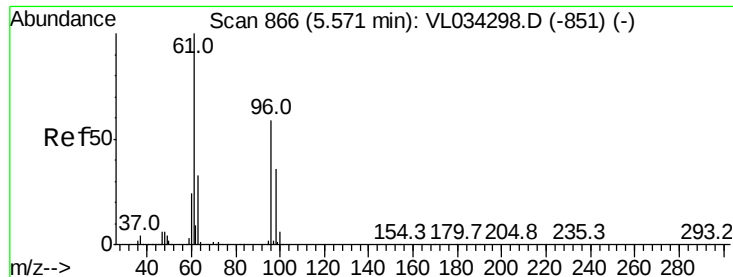


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



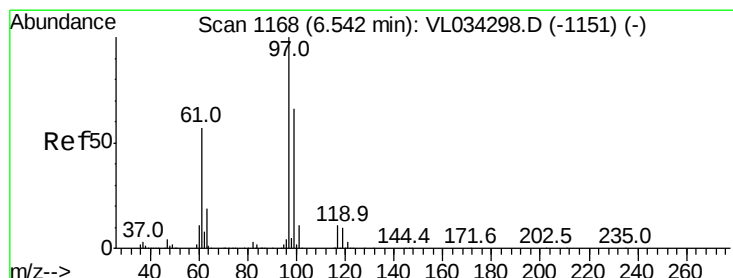
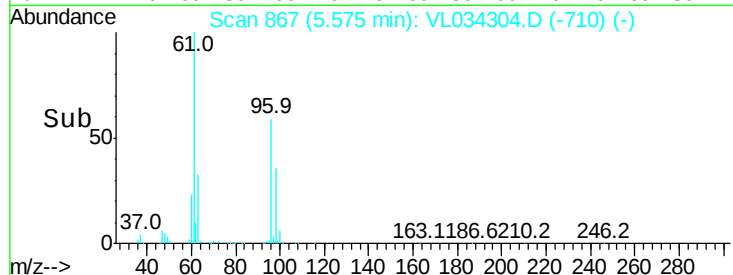
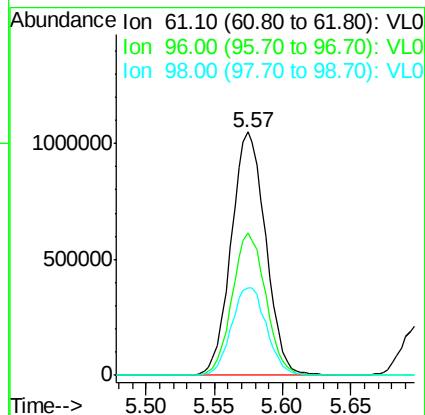
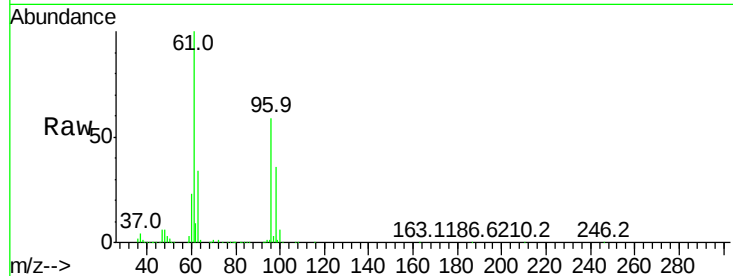


#31

cis-1,2-Dichloroethene
Concen: 14.651 ppbv
RT: 5.57 min Scan# 867
Delta R.T. 0.00 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

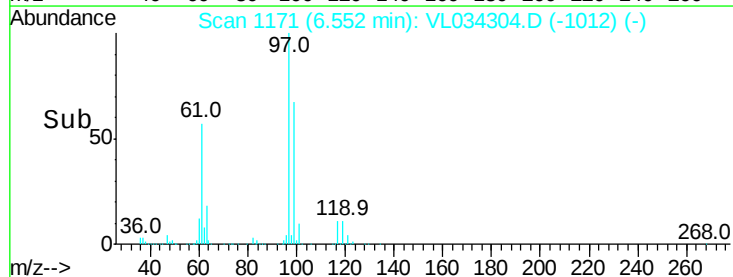
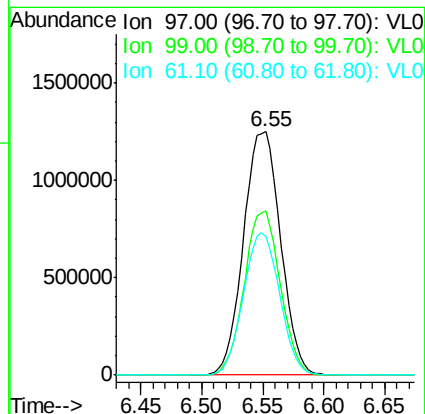
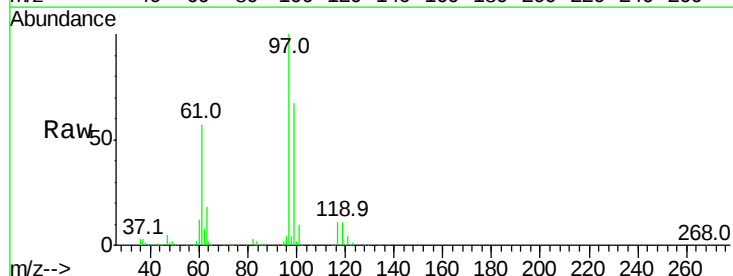
Tgt Ion: 61 Resp: 1839422
Ion Ratio Lower Upper
61 100
96 58.5 47.5 71.3
98 35.9 28.8 43.2

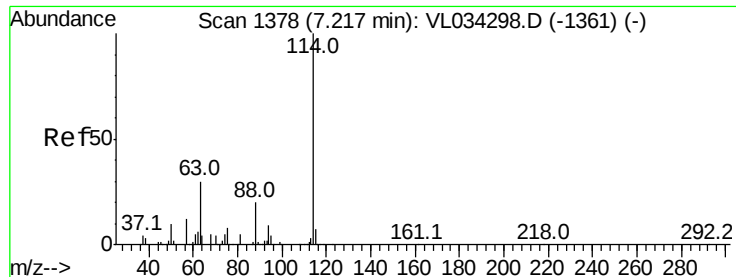


#32

1,1,1-Trichloroethane
Concen: 15.458 ppbv
RT: 6.55 min Scan# 1171
Delta R.T. 0.01 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

Tgt Ion: 97 Resp: 2623751
Ion Ratio Lower Upper
97 100
99 65.7 52.6 78.8
61 57.3 44.5 66.7

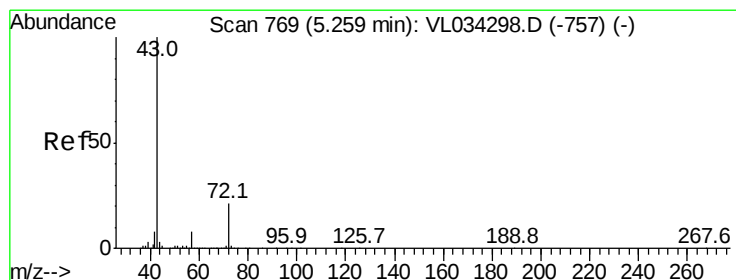
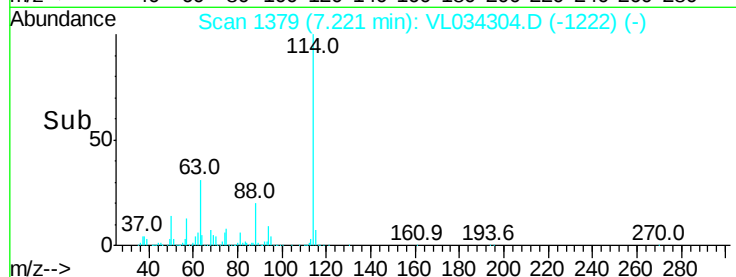
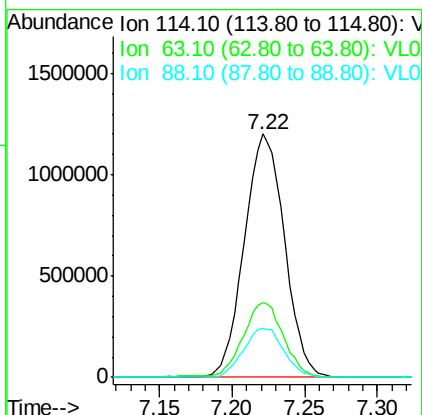
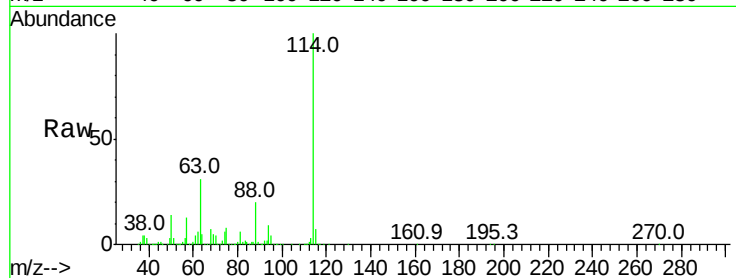




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. 0.00 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

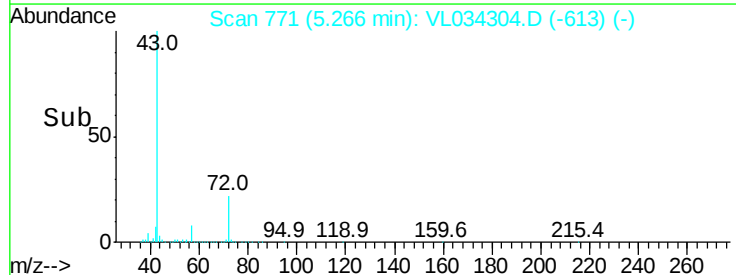
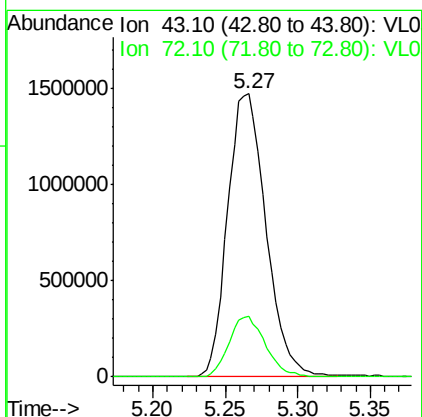
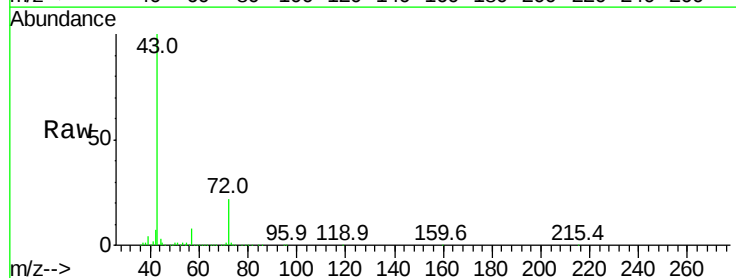
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

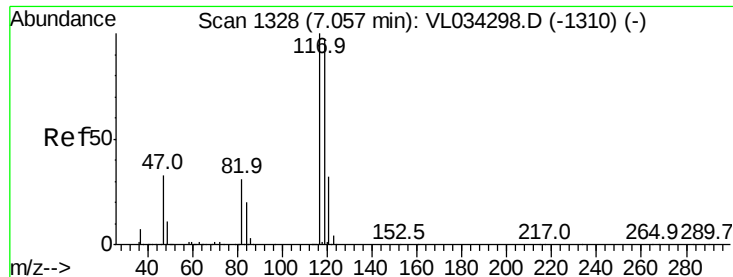
Tgt Ion:114 Resp: 2314424
 Ion Ratio Lower Upper
 114 100
 63 31.5 25.2 37.8
 88 20.2 16.0 24.0



#34
 2-Butanone
 Concen: 11.343 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.01 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

Tgt Ion: 43 Resp: 2680501
 Ion Ratio Lower Upper
 43 100
 72 20.6 16.3 24.5





#35

Carbon Tetrachloride

Concen: 14.352 ppbv

RT: 7.06 min Scan# 1329

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

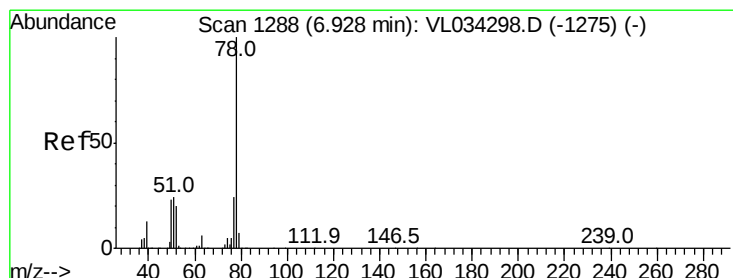
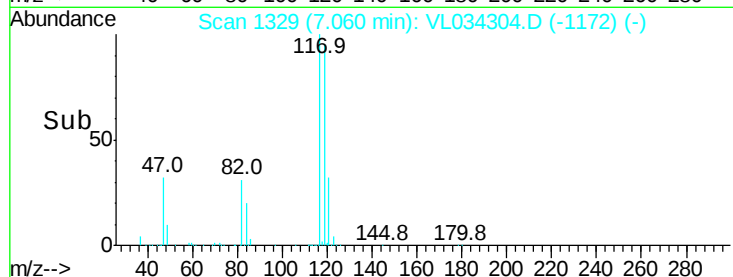
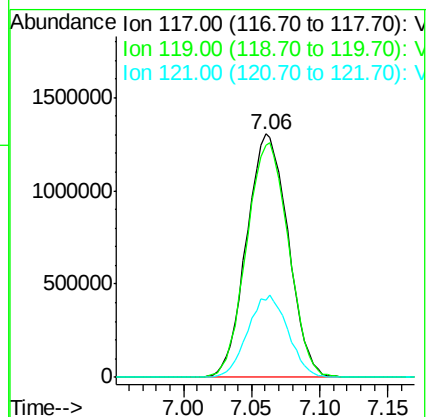
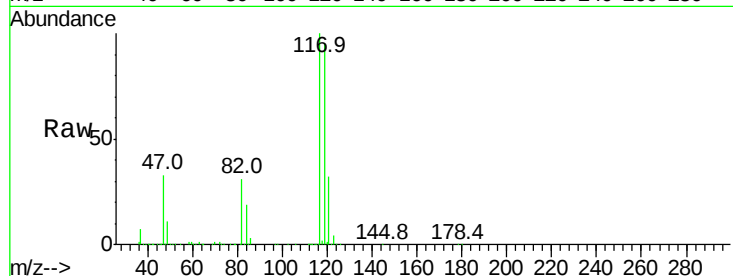
Tgt Ion:117 Resp: 2759622

Ion Ratio Lower Upper

117 100

119 95.4 77.3 115.9

121 32.0 25.5 38.3



#36

Benzene

Concen: 12.233 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

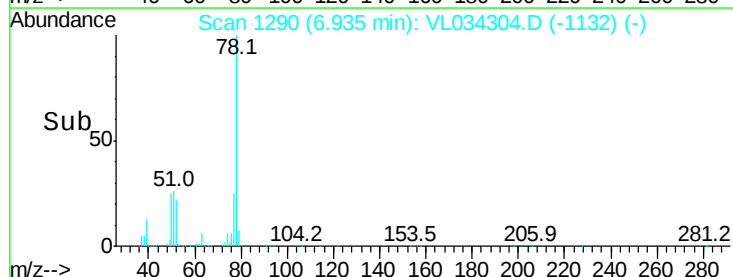
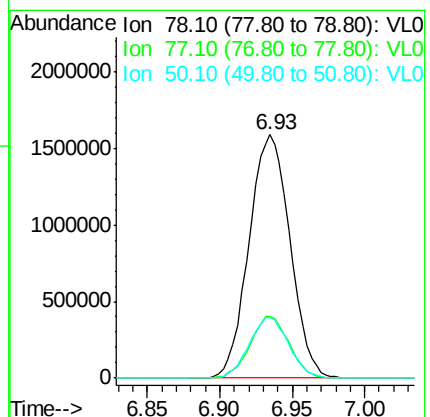
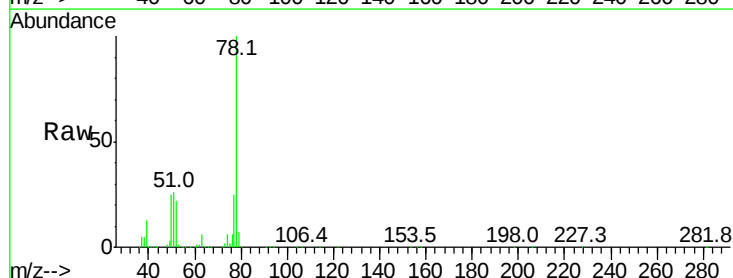
Tgt Ion: 78 Resp: 3126870

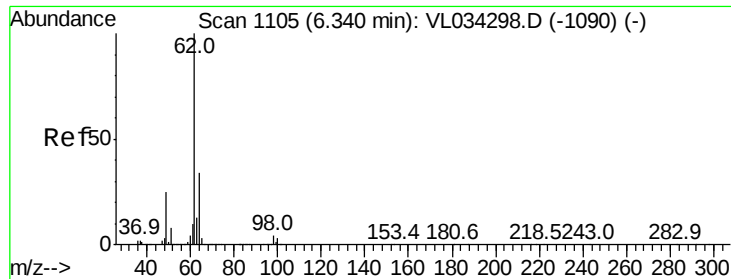
Ion Ratio Lower Upper

78 100

77 25.2 19.0 28.4

50 24.7 18.6 27.8

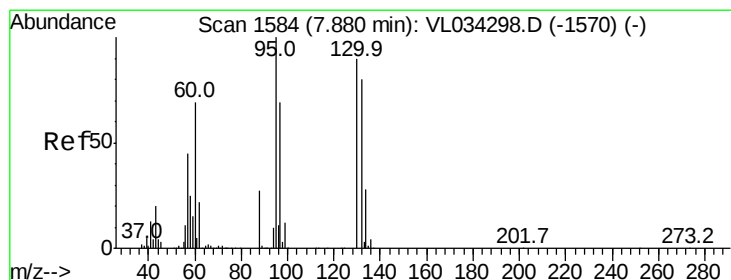
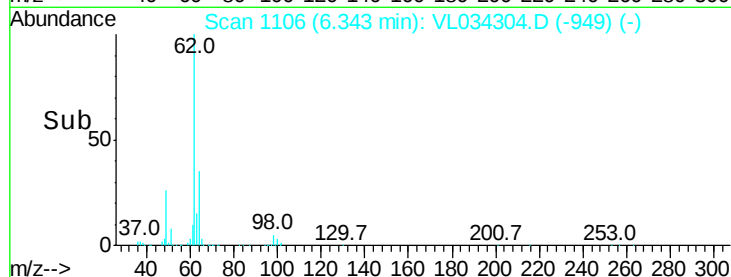
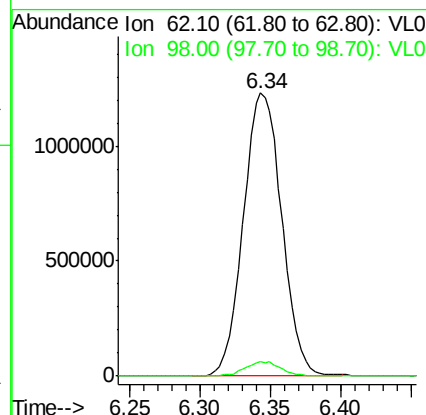
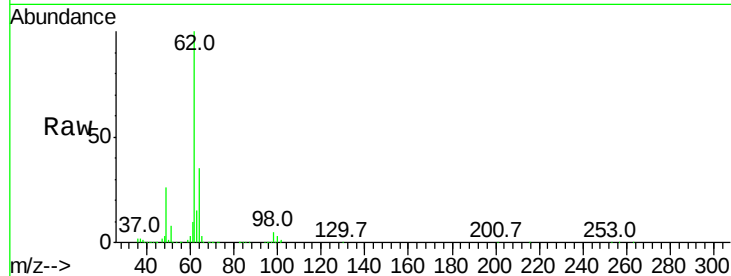




#37
 1,2-Dichloroethane
 Concen: 12.918 ppbv
 RT: 6.34 min Scan# 1106
 Delta R.T. 0.00 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

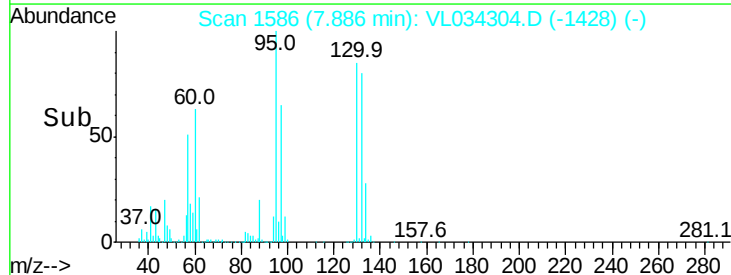
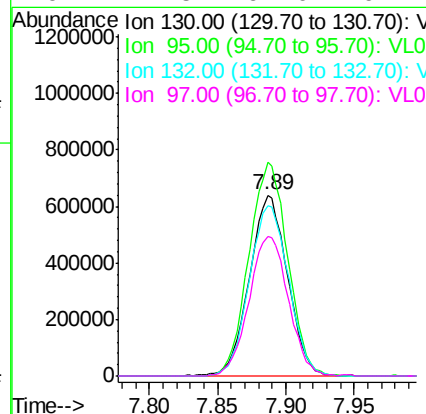
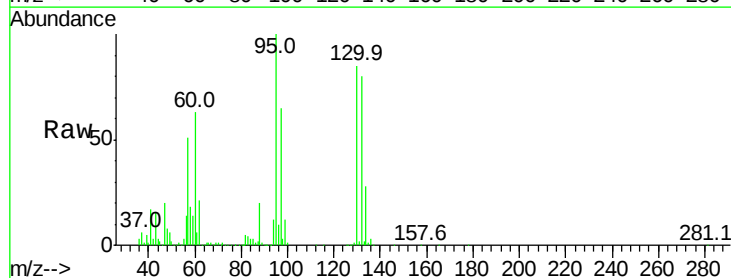
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

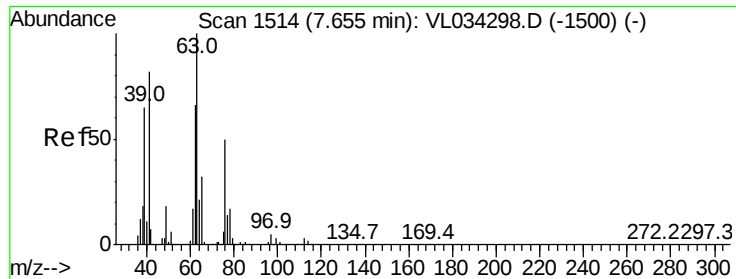
Tgt Ion: 62 Resp: 2348621
 Ion Ratio Lower Upper
 62 100
 98 4.8 3.8 5.6



#38
 Trichloroethene
 Concen: 13.500 ppbv
 RT: 7.89 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

Tgt Ion: 130 Resp: 1232976
 Ion Ratio Lower Upper
 130 100
 95 118.5 88.6 132.8
 132 94.3 71.2 106.8
 97 77.5 61.0 91.4





#39

1,2-Dichloropropane

Concen: 12.080 ppbv

RT: 7.66 min Scan# 1517

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

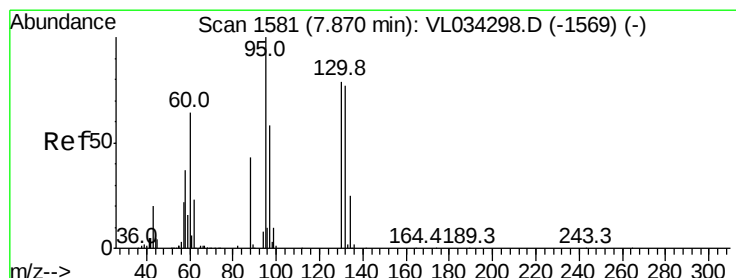
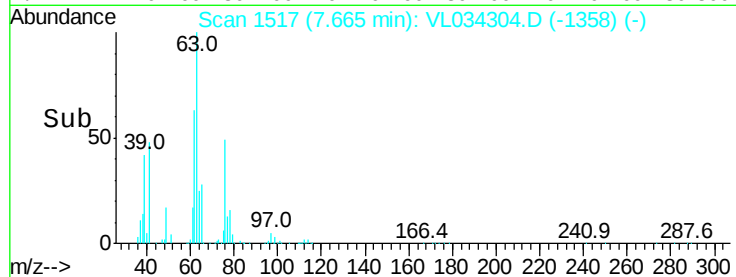
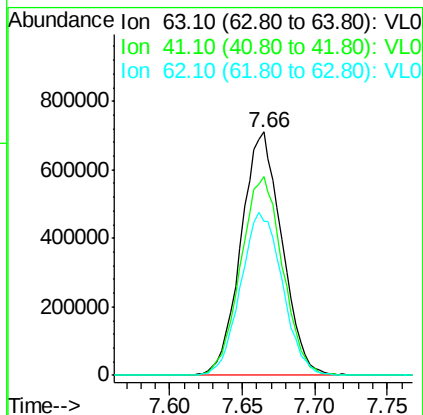
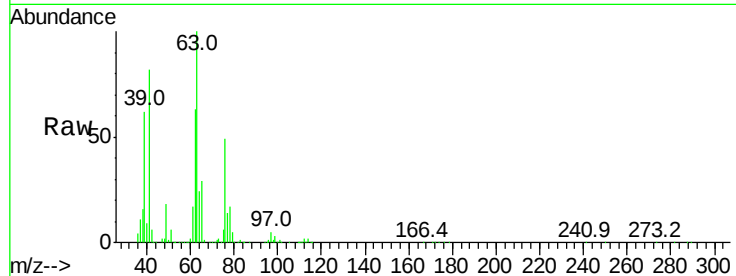
Tgt Ion: 63 Resp: 1387366

Ion Ratio Lower Upper

63 100

41 81.9 65.6 98.4

62 63.2 53.0 79.6



#40

1,4-Dioxane

Concen: 10.016 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Tgt Ion: 88 Resp: 372245

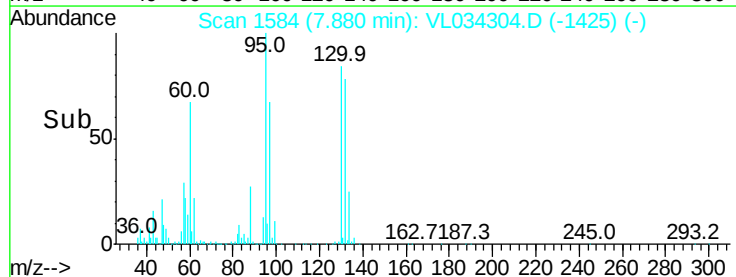
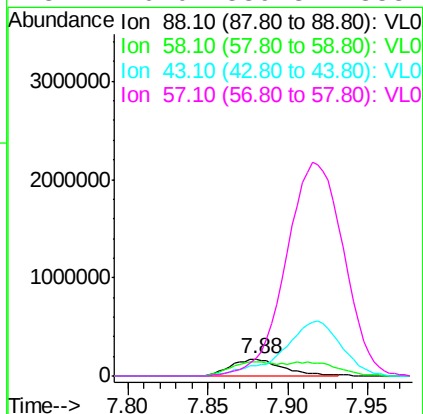
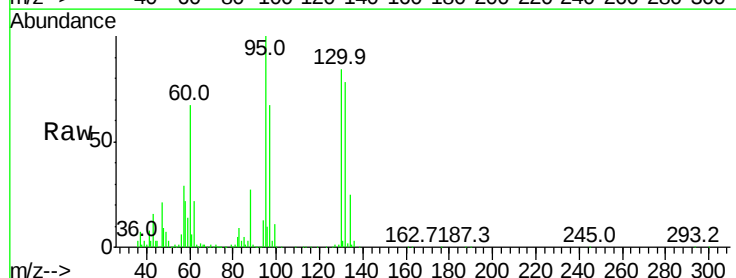
Ion Ratio Lower Upper

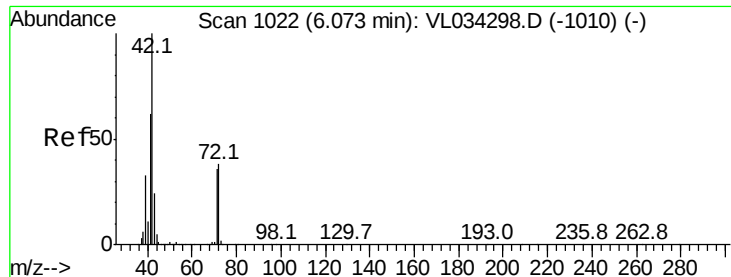
88 100

58 79.7 110.3 165.5#

43 0.0 228.1 342.1#

57 0.0 889.3 1333.9#





#41

Tetrahydrofuran

Concen: 11.868 ppbv

RT: 6.07 min Scan# 1022

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

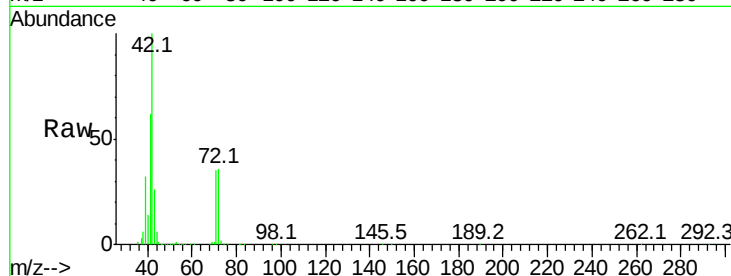
Tgt Ion: 42 Resp: 1579576

Ion Ratio Lower Upper

42 100

72 35.8 28.0 42.0

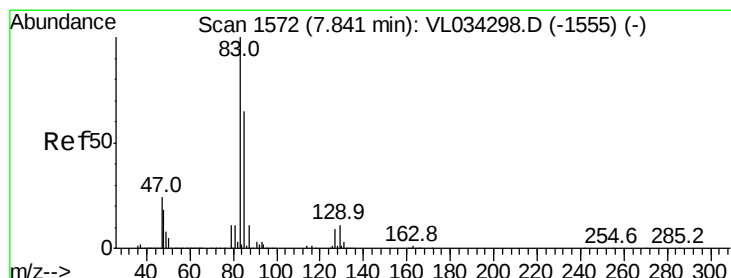
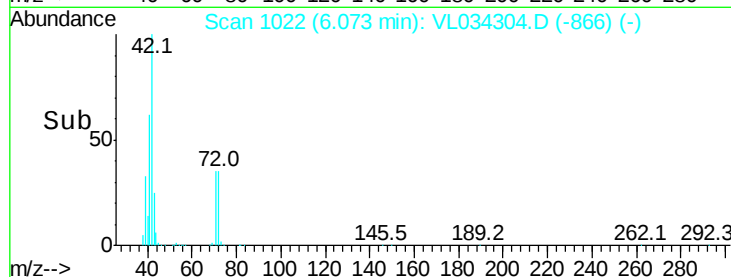
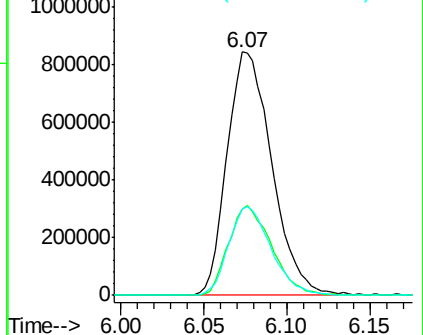
71 34.8 27.3 40.9



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 13.350 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

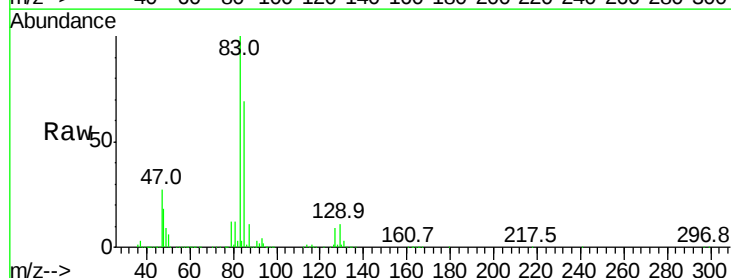
Tgt Ion: 83 Resp: 2912846

Ion Ratio Lower Upper

83 100

85 69.2 51.8 77.6

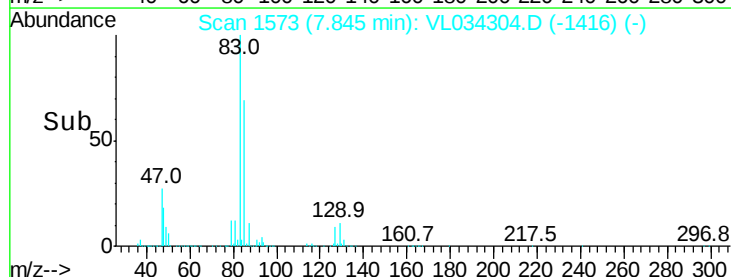
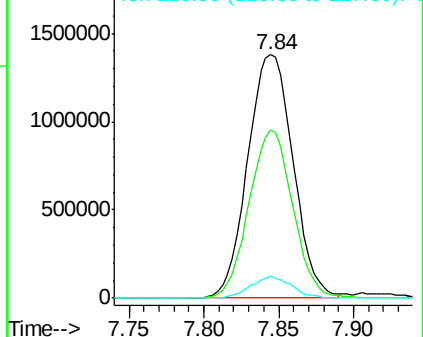
127 9.1 7.0 10.6

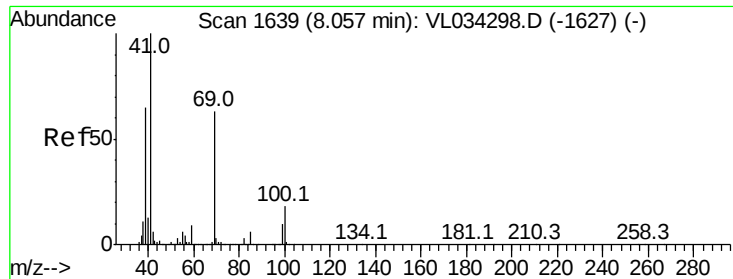


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

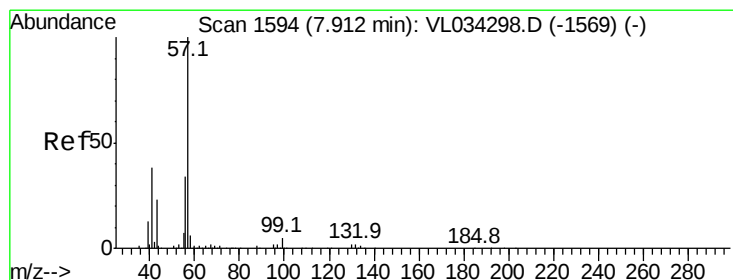
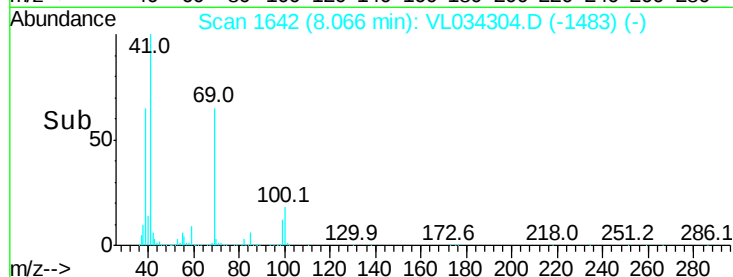
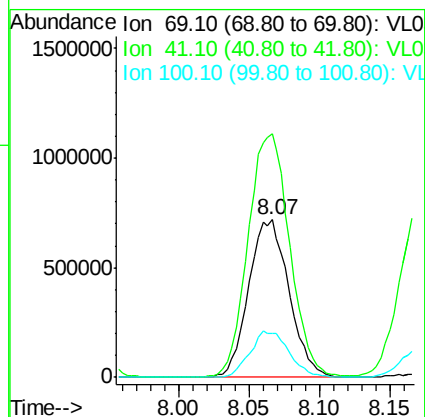
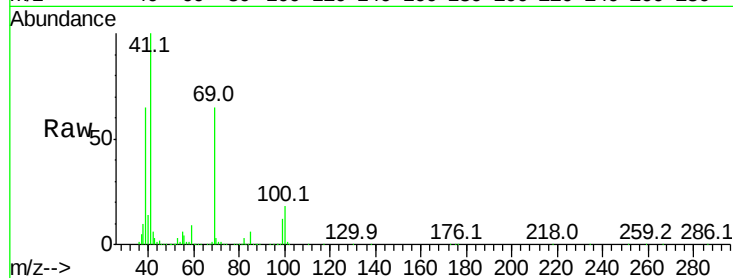




#43
Methyl Methacrylate
Concen: 13.625 ppbv
RT: 8.07 min Scan# 1642
Delta R.T. 0.01 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

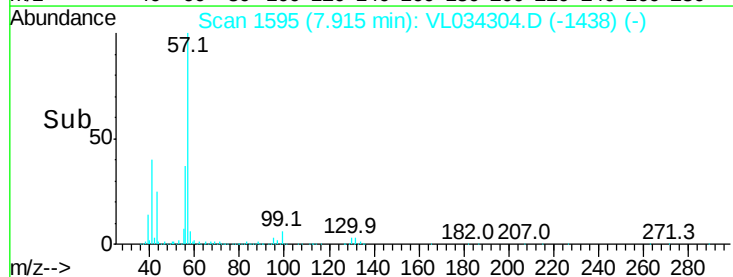
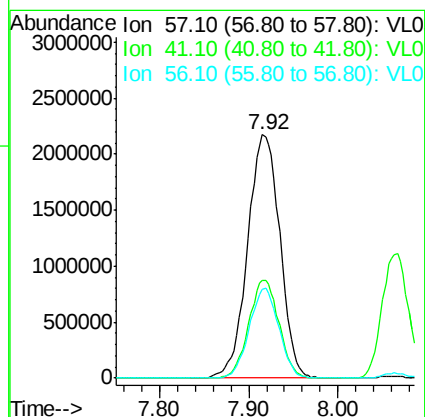
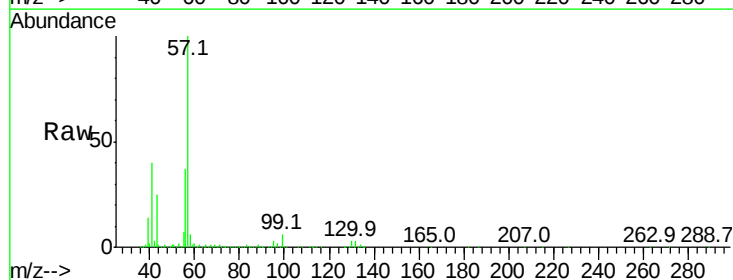
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

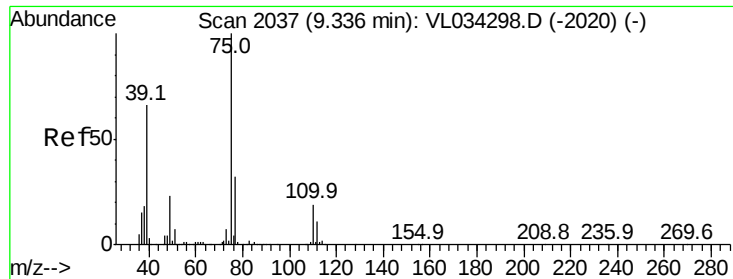
Tgt Ion: 69 Resp: 1438744
Ion Ratio Lower Upper
69 100
41 159.3 132.1 198.1
100 28.6 23.2 34.8



#44
2,2,4-Trimethylpentane
Concen: 11.131 ppbv
RT: 7.92 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

Tgt Ion: 57 Resp: 5477307
Ion Ratio Lower Upper
57 100
41 37.8 29.3 43.9
56 33.8 25.3 37.9

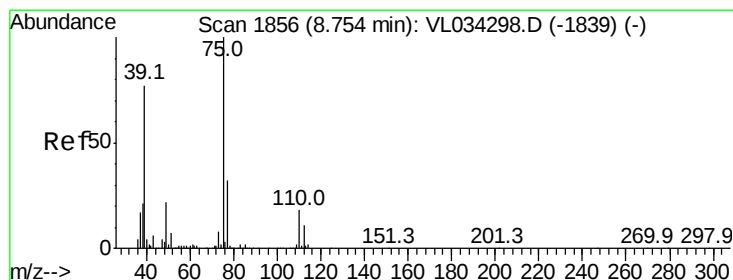
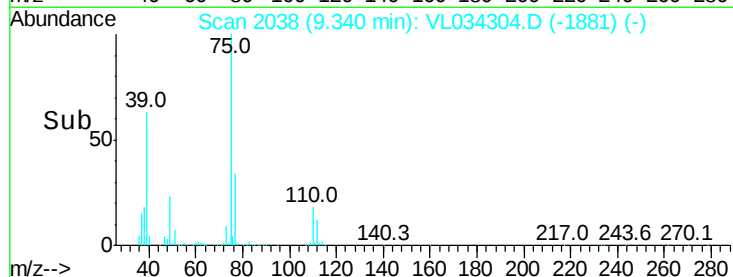
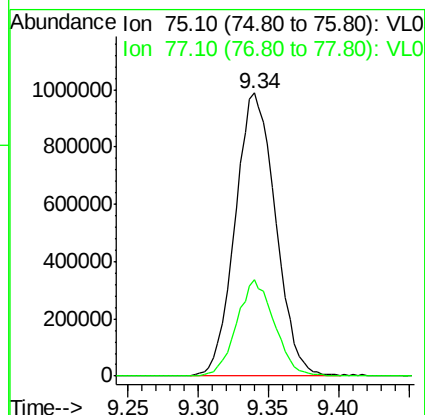
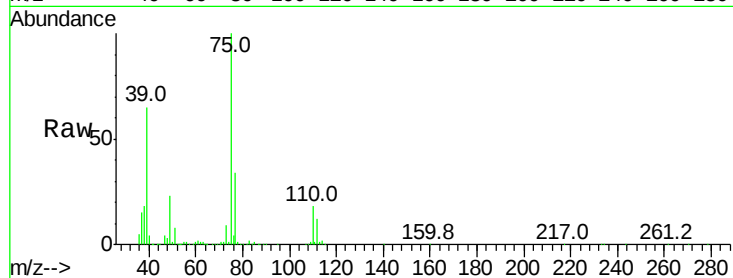




#45
 t-1,3-Dichloropropene
 Concen: 15.923 ppbv
 RT: 9.34 min Scan# 2038
 Delta R.T. 0.00 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

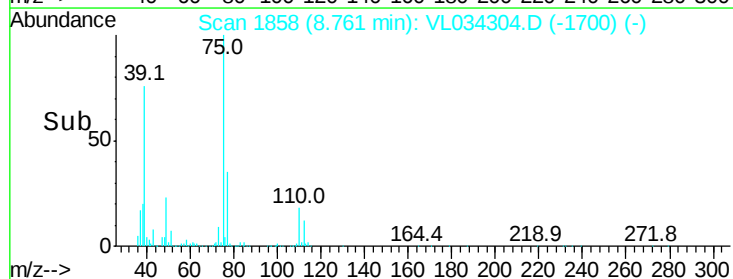
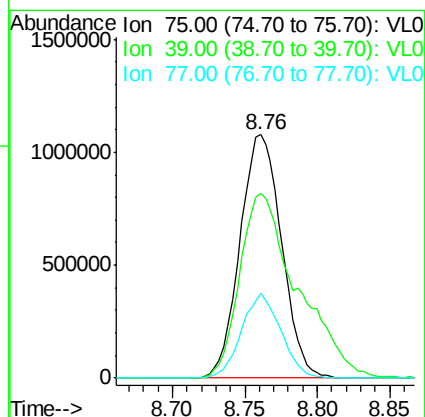
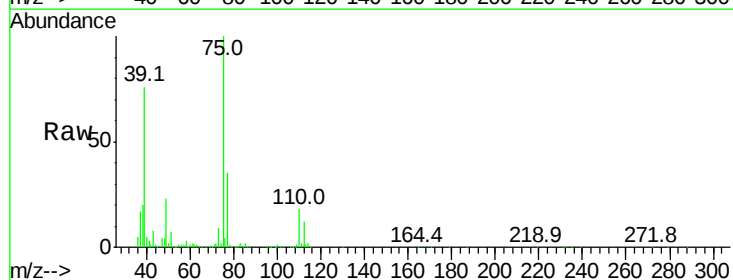
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

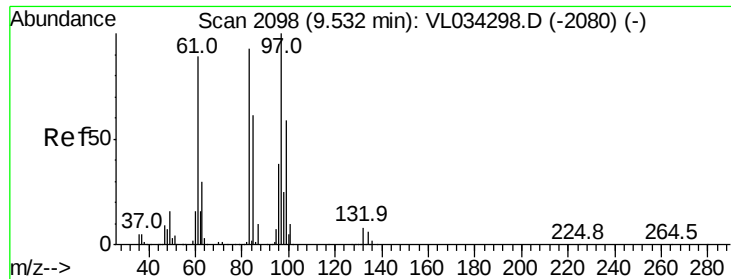
Tgt Ion: 75 Resp: 1988069
 Ion Ratio Lower Upper
 75 100
 77 34.2 25.6 38.4



#46
 cis-1,3-Dichloropropene
 Concen: 14.291 ppbv
 RT: 8.76 min Scan# 1858
 Delta R.T. 0.01 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

Tgt Ion: 75 Resp: 2146234
 Ion Ratio Lower Upper
 75 100
 39 75.6 61.2 91.8
 77 35.0 25.9 38.9

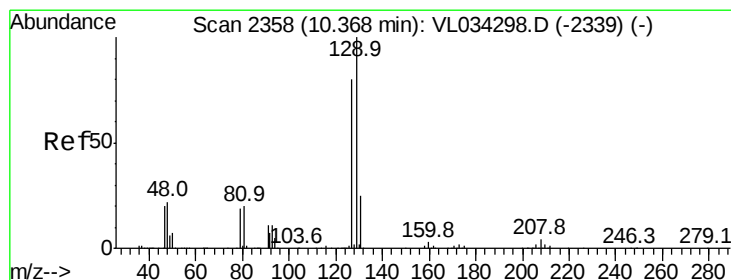
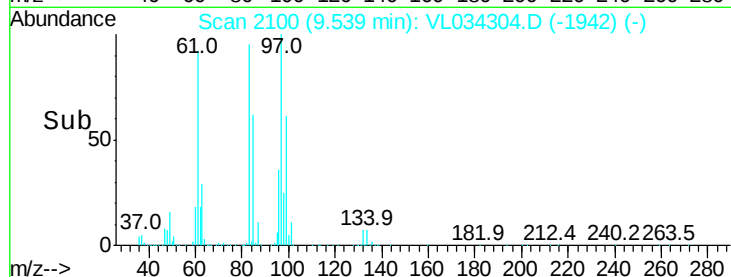
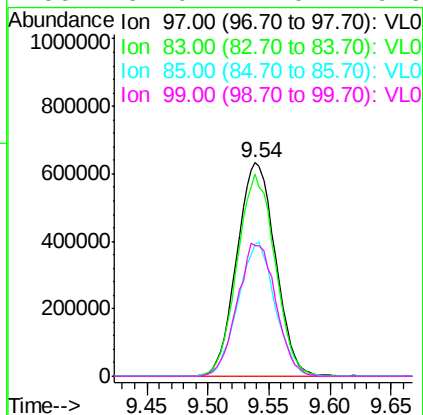
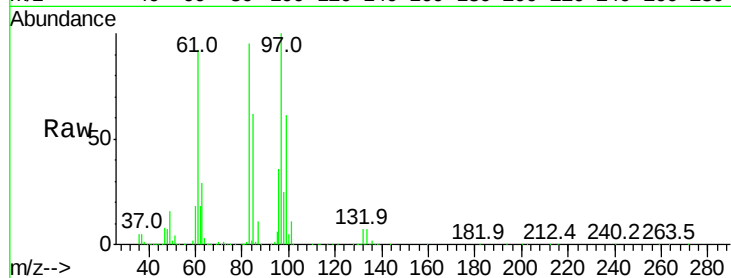




#47
 1,1,2-Trichloroethane
 Concen: 13.422 ppbv
 RT: 9.54 min Scan# 2100
 Delta R.T. 0.01 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

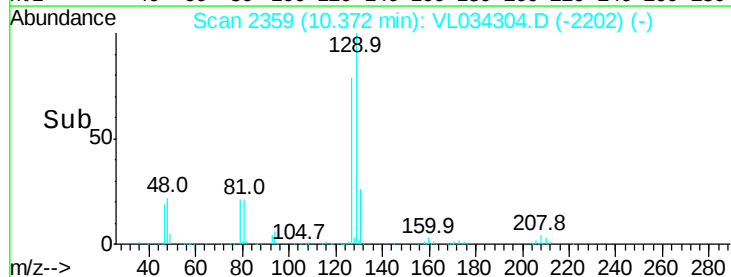
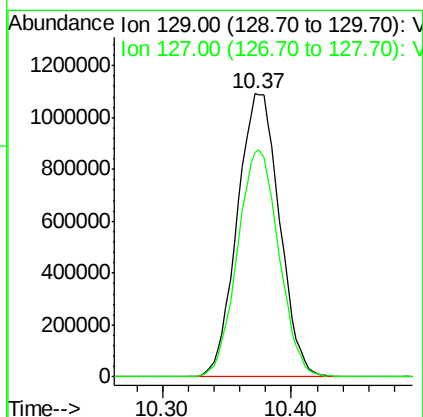
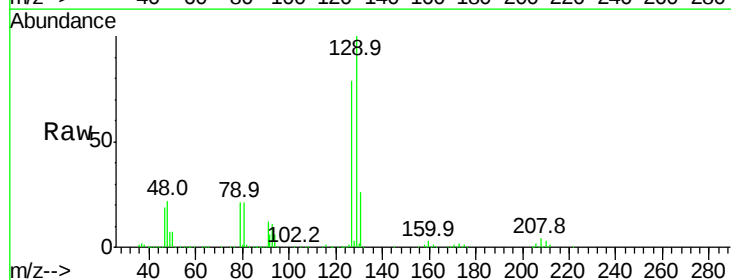
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

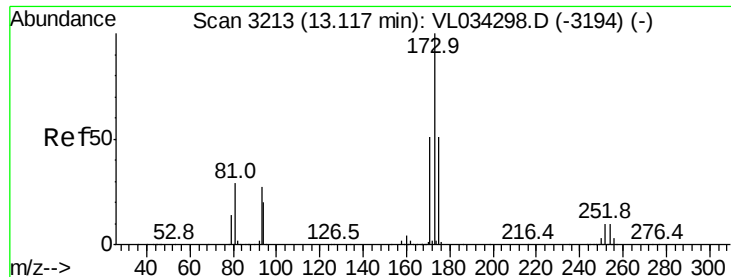
Tgt Ion: 97 Resp: 1384241
 Ion Ratio Lower Upper
 97 100
 83 94.8 74.2 111.2
 85 61.8 48.6 73.0
 99 61.0 47.0 70.6



#48
 Dibromochloromethane
 Concen: 15.190 ppbv
 RT: 10.37 min Scan# 2359
 Delta R.T. 0.00 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

Tgt Ion: 129 Resp: 2482989
 Ion Ratio Lower Upper
 129 100
 127 78.9 39.7 119.1





#49

Bromoform

Concen: 17.346 ppbv

RT: 13.12 min Scan# 3215

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

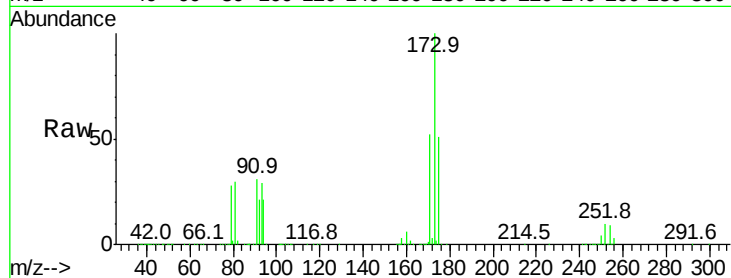
Tgt Ion:173 Resp: 2294501

Ion Ratio Lower Upper

173 100

175 49.9 39.8 59.6

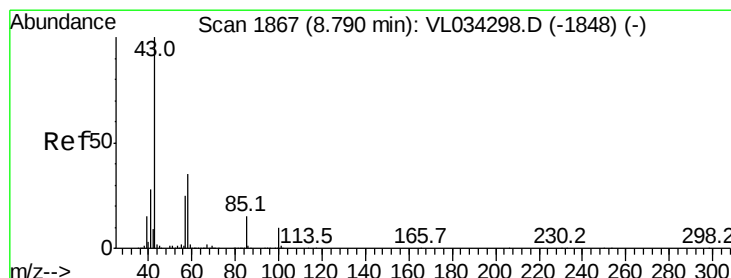
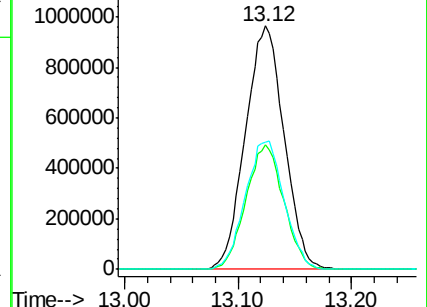
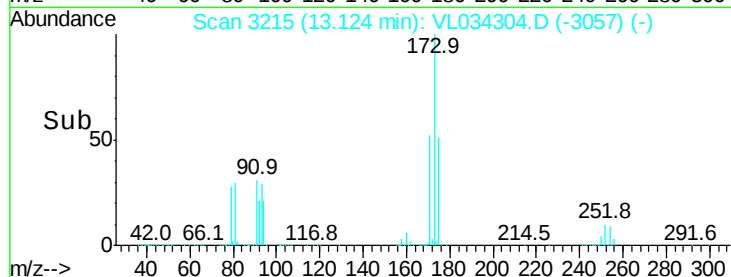
171 52.9 41.8 62.6



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.475 ppbv

RT: 8.79 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VL034304.D

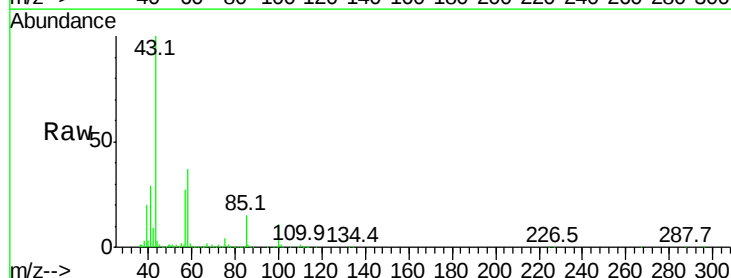
Acq: 16 Oct 2019 16:48

Tgt Ion: 43 Resp: 3946591

Ion Ratio Lower Upper

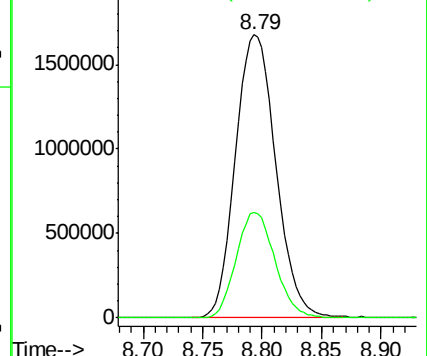
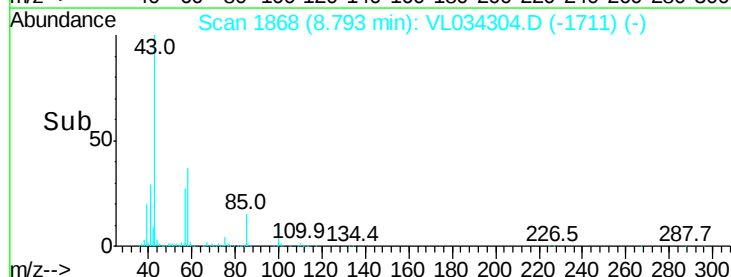
43 100

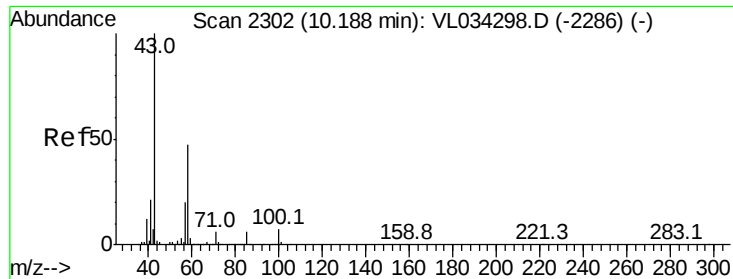
58 36.0 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.887 ppbv

RT: 10.19 min Scan# 2303

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

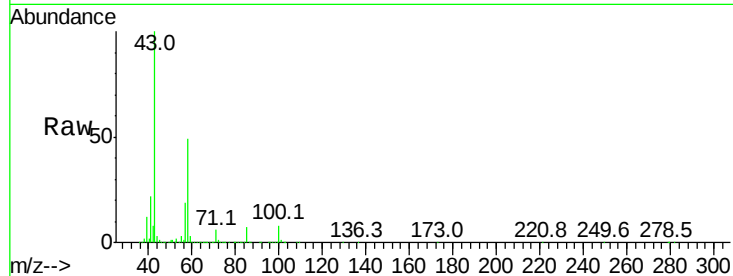
Tgt Ion: 43 Resp: 3430853

Ion Ratio Lower Upper

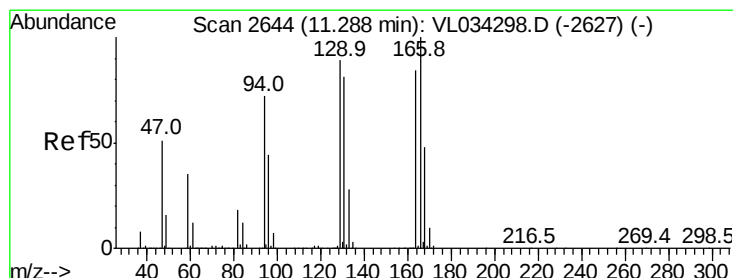
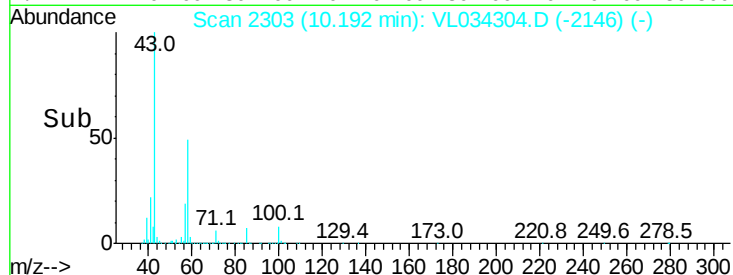
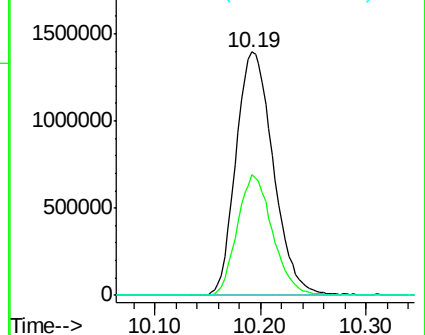
43 100

58 46.9 37.0 55.6

98 0.1 0.2 0.2#



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



#52

Tetrachloroethene

Concen: 14.439 ppbv

RT: 11.29 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Tgt Ion: 164 Resp: 1219355

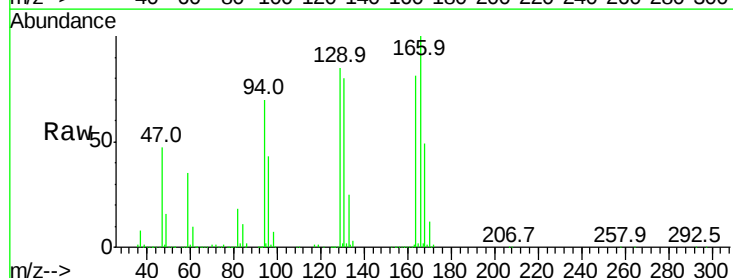
Ion Ratio Lower Upper

164 100

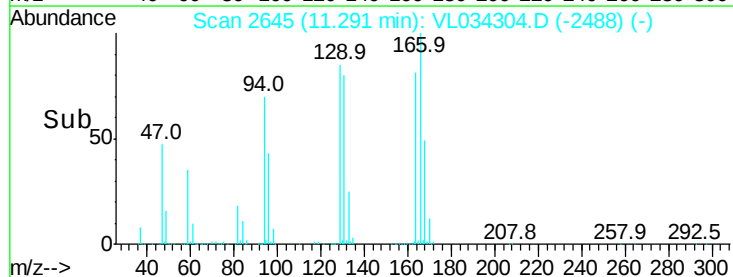
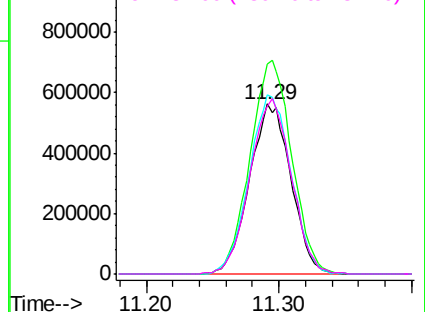
166 123.6 95.3 142.9

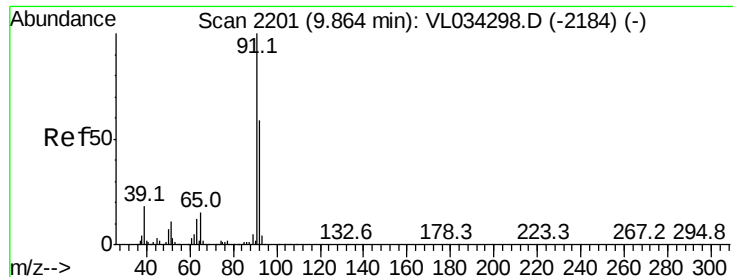
129 105.2 84.5 126.7

131 98.4 77.3 115.9



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: 13.070 ppbv

RT: 9.87 min Scan# 2203

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

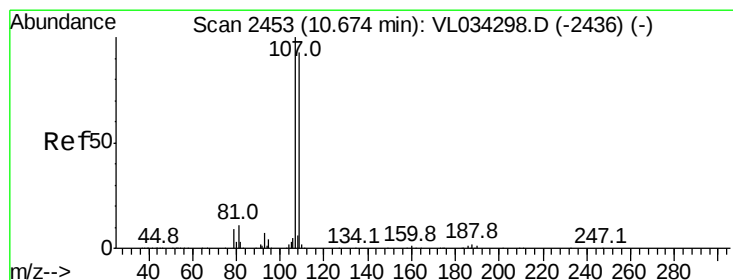
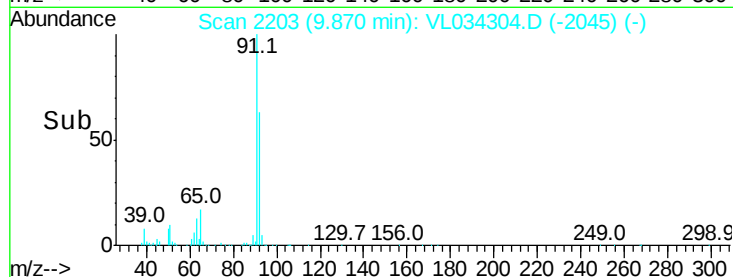
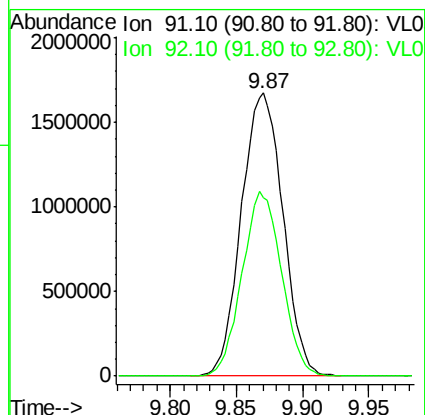
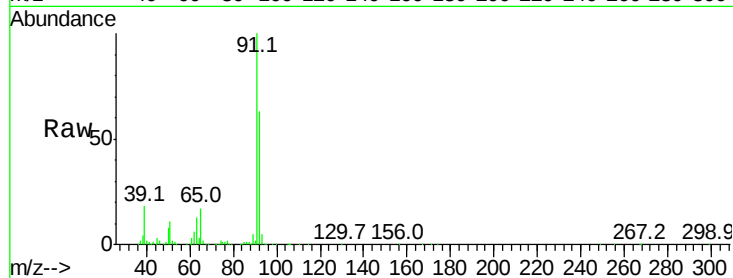
VSTDIC015

Tgt Ion: 91 Resp: 3651267

Ion Ratio Lower Upper

91 100

92 62.1 48.4 72.6



#54

1,2-Dibromoethane

Concen: 13.643 ppbv

RT: 10.68 min Scan# 2455

Delta R.T. 0.01 min

Lab File: VL034304.D

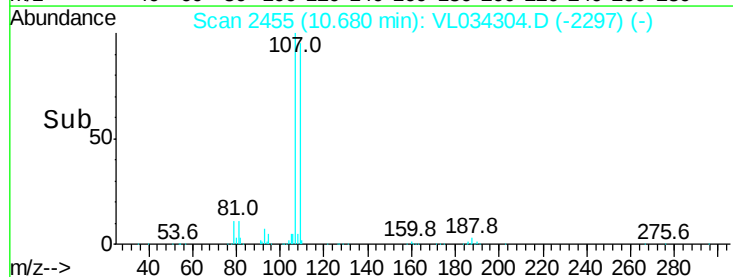
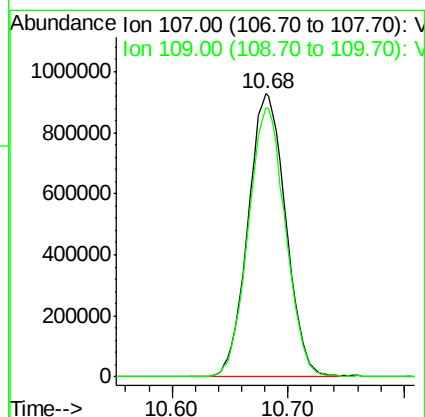
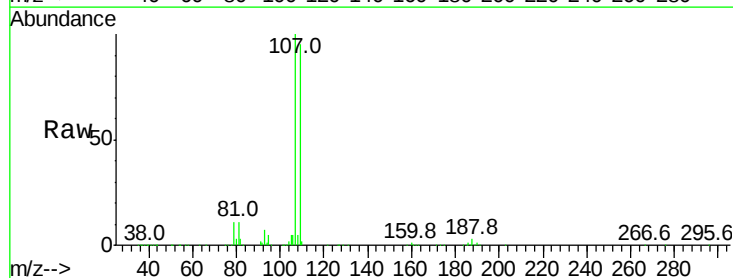
Acq: 16 Oct 2019 16:48

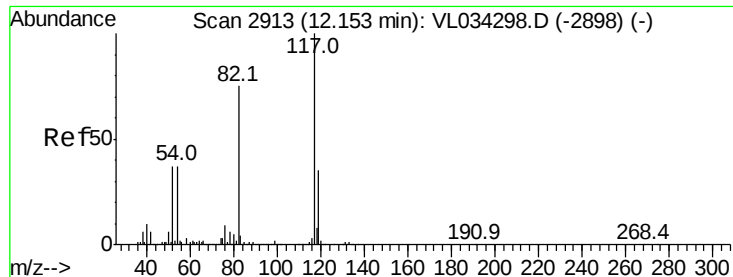
Tgt Ion: 107 Resp: 2092441

Ion Ratio Lower Upper

107 100

109 95.0 74.6 112.0

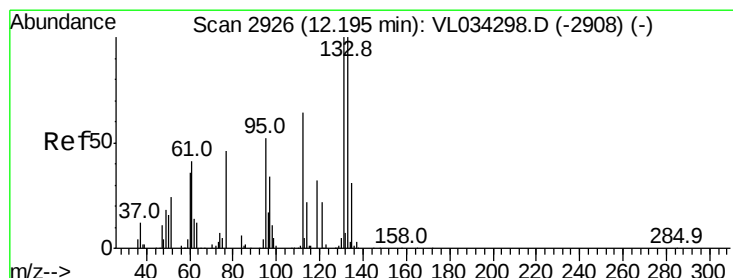
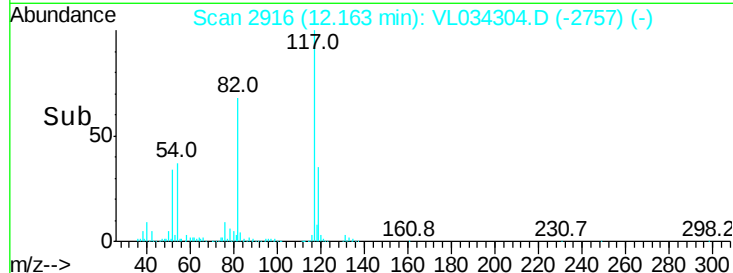
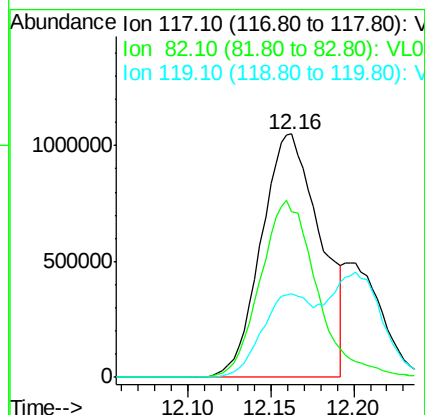
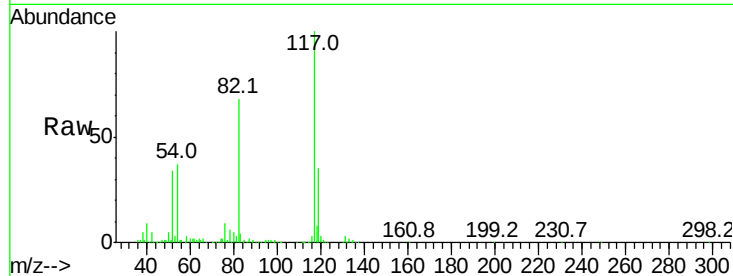




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. 0.01 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

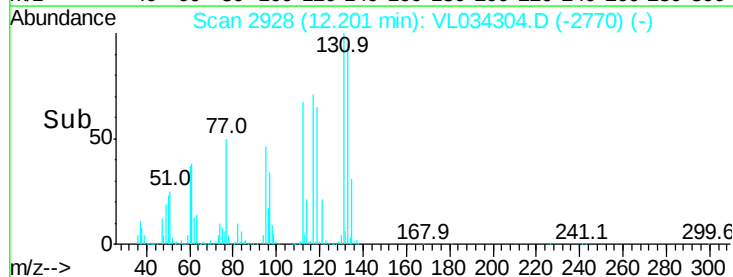
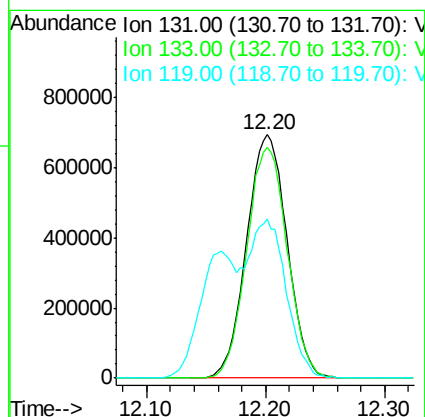
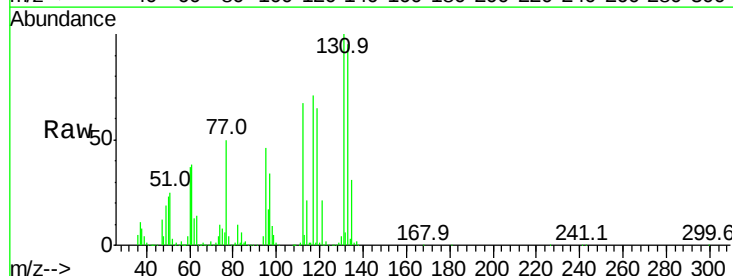
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

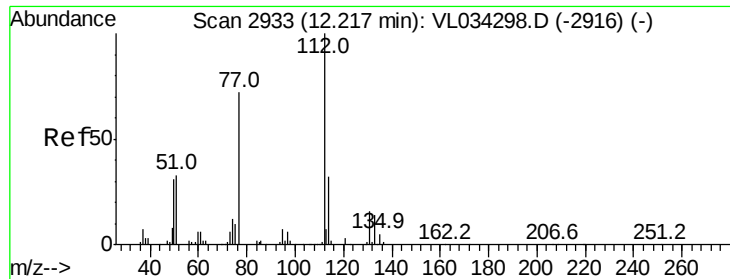
Tgt Ion:117 Resp: 2601648
Ion Ratio Lower Upper
117 100
82 70.0 55.5 83.3
119 0.0 26.5 39.7#



#56
1,1,1,2-Tetrachloroethane
Concen: 14.082 ppbv
RT: 12.20 min Scan# 2928
Delta R.T. 0.01 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

Tgt Ion:131 Resp: 1633831
Ion Ratio Lower Upper
131 100
133 94.9 77.1 115.7
119 65.1 49.0 73.4





#57

Chlorobenzene

Concen: 12.365 ppbv

RT: 12.22 min Scan# 2935

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

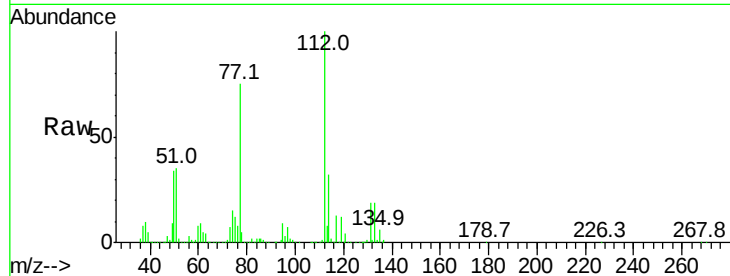
Tgt Ion: 112 Resp: 2801002

Ion Ratio Lower Upper

112 100

77 75.0 58.6 88.0

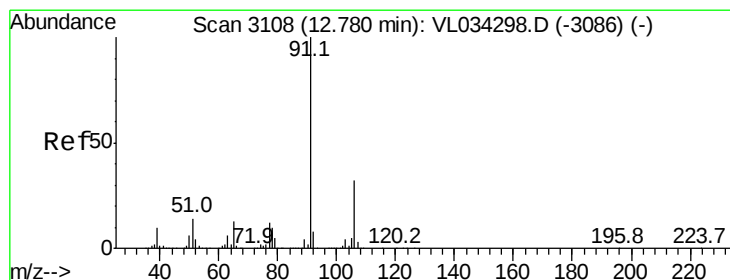
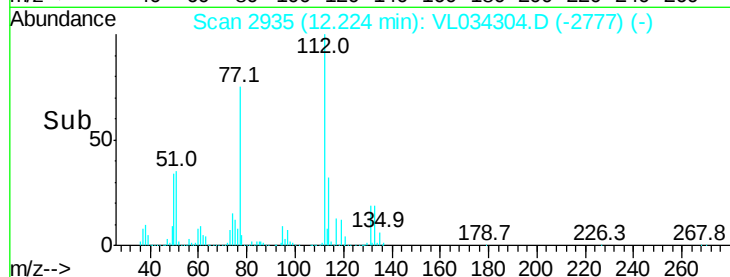
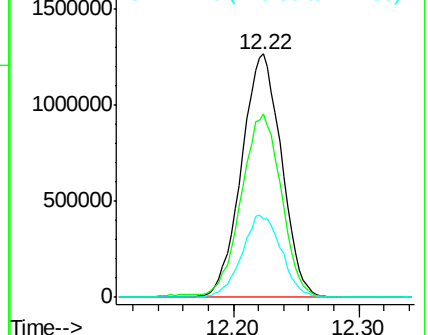
114 32.3 28.6 35.0



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: 11.800 ppbv

RT: 12.78 min Scan# 3109

Delta R.T. 0.00 min

Lab File: VL034304.D

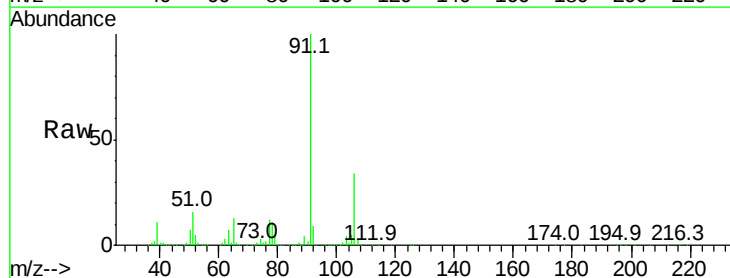
Acq: 16 Oct 2019 16:48

Tgt Ion: 91 Resp: 4953587

Ion Ratio Lower Upper

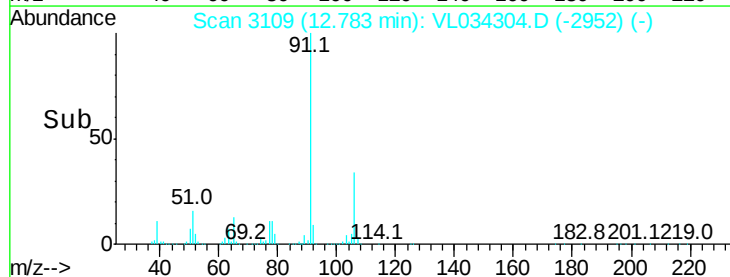
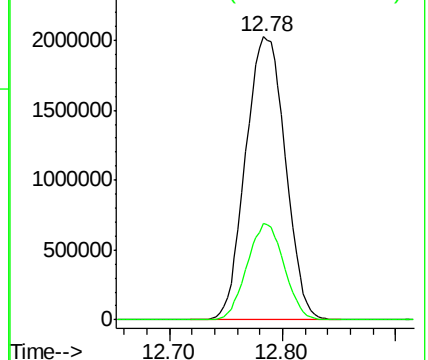
91 100

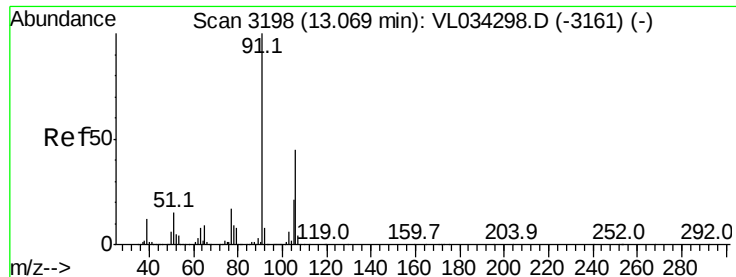
106 34.1 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

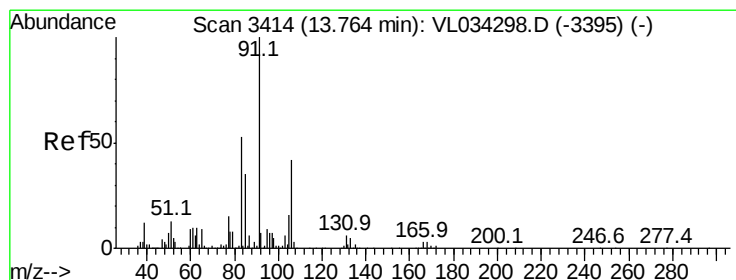
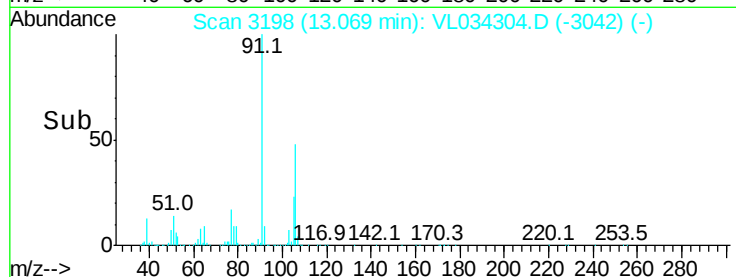
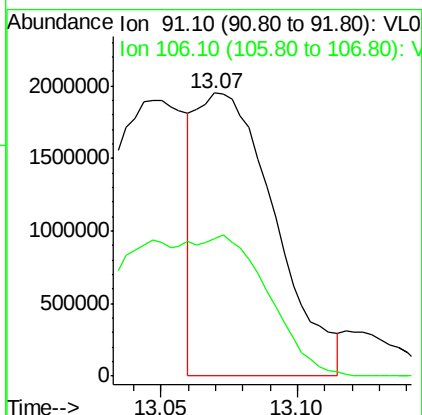
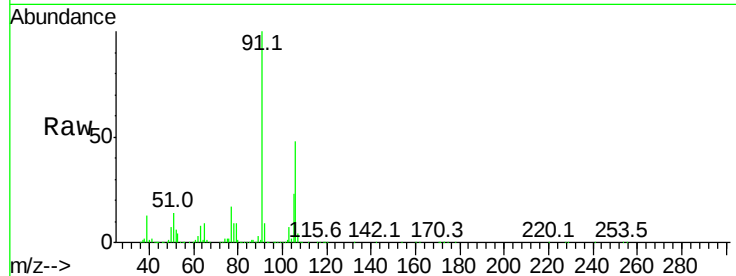




#59
m/p-Xylene
Concen: 11.189 ppbv
RT: 13.07 min Scan# 3198
Delta R.T. 0.00 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

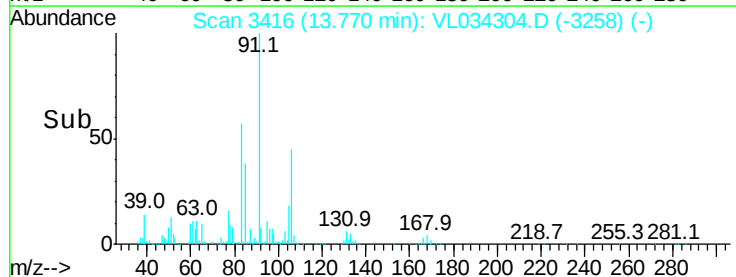
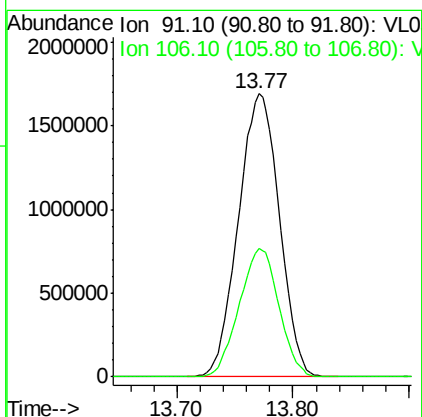
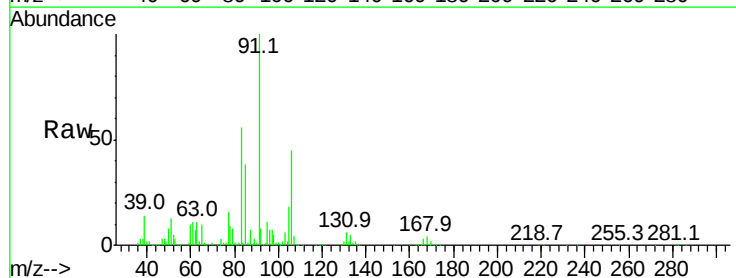
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

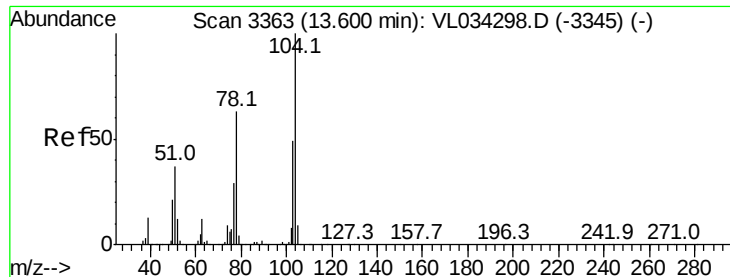
Tgt Ion: 91 Resp: 3890362
Ion Ratio Lower Upper
91 100
106 97.6 35.4 53.2#



#60
o-Xylene
Concen: 11.920 ppbv
RT: 13.77 min Scan# 3416
Delta R.T. 0.01 min
Lab File: VL034304.D
Acq: 16 Oct 2019 16:48

Tgt Ion: 91 Resp: 4144129
Ion Ratio Lower Upper
91 100
106 44.0 21.6 64.6





#61

Styrene

Concen: 13.043 ppbv

RT: 13.60 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

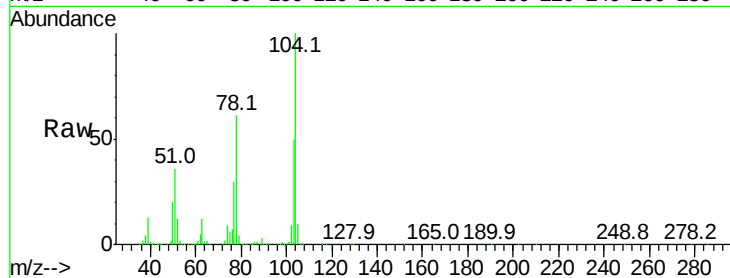
Tgt Ion:104 Resp: 3248062

Ion Ratio Lower Upper

104 100

78 60.0 47.8 71.8

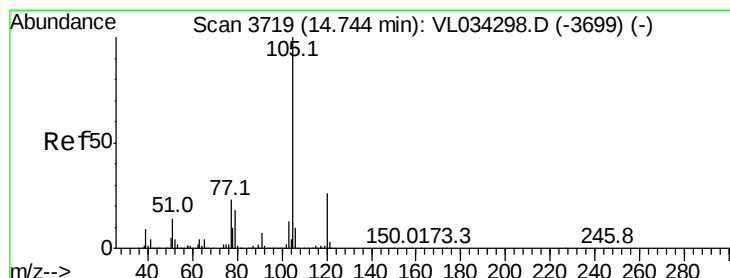
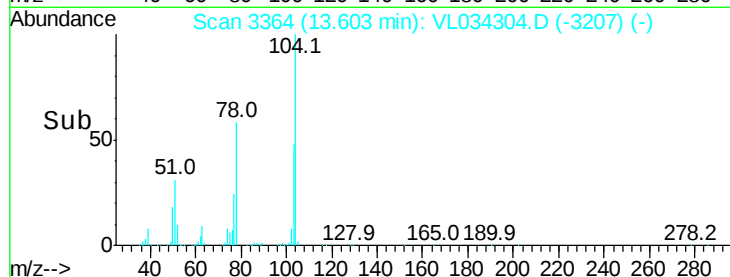
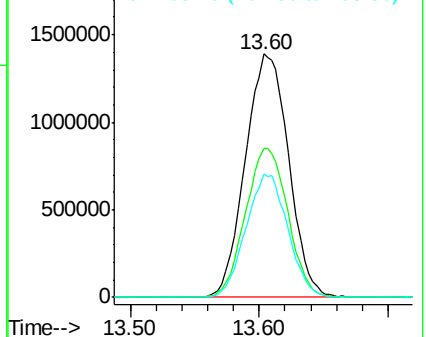
103 48.9 39.0 58.6



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: 11.905 ppbv

RT: 14.75 min Scan# 3720

Delta R.T. 0.00 min

Lab File: VL034304.D

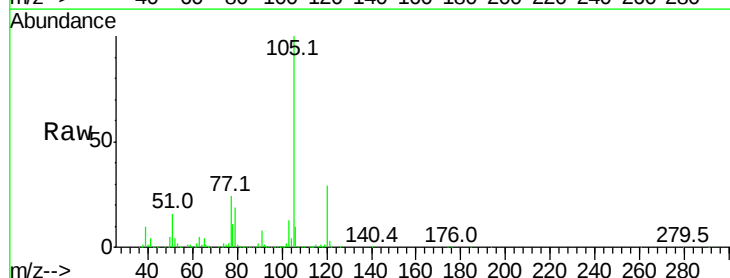
Acq: 16 Oct 2019 16:48

Tgt Ion:105 Resp: 5358043

Ion Ratio Lower Upper

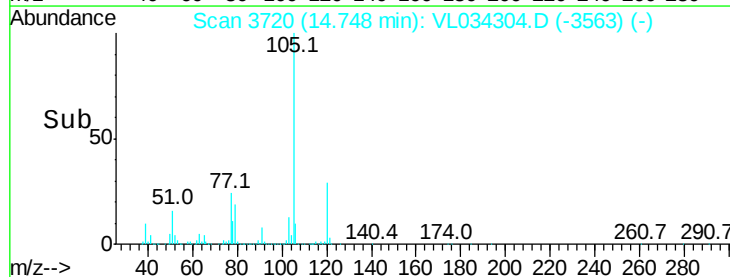
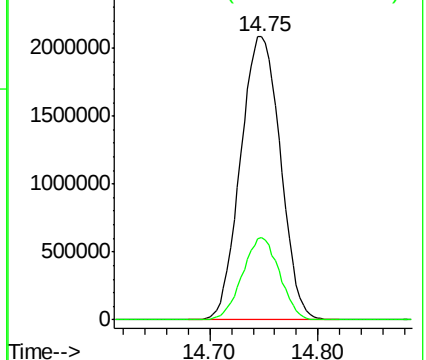
105 100

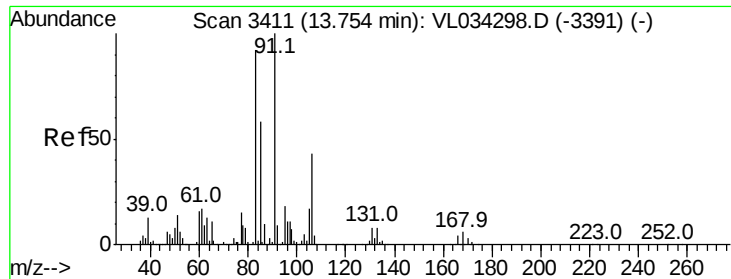
120 27.1 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

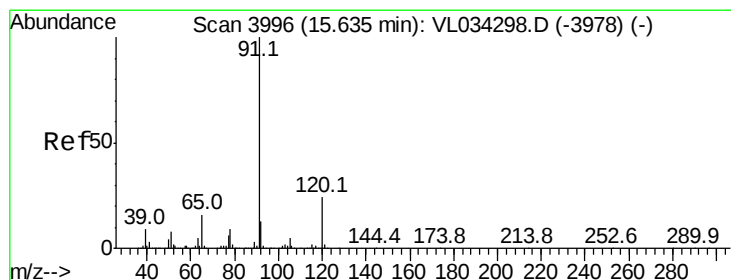
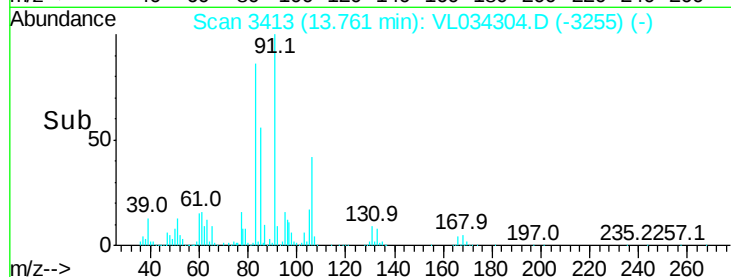
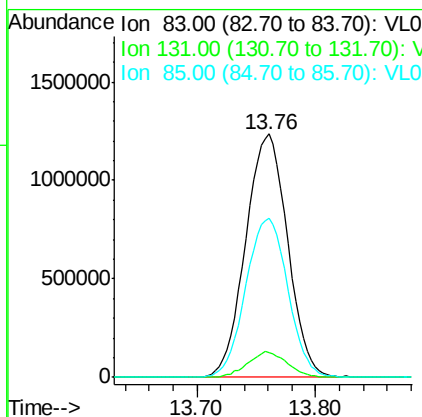
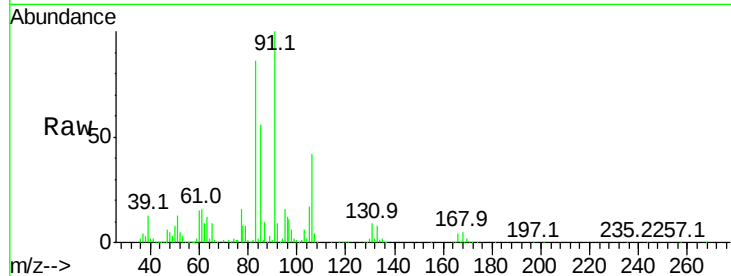




#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.590 ppbv
 RT: 13.76 min Scan# 3413
 Delta R.T. 0.01 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

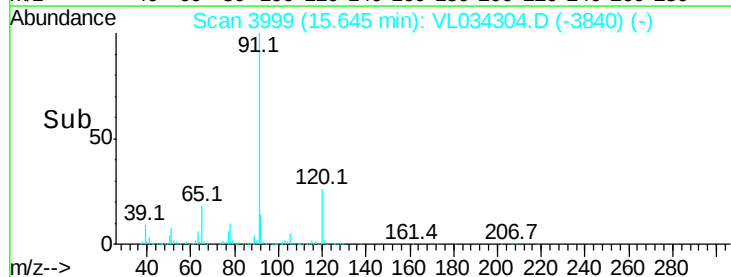
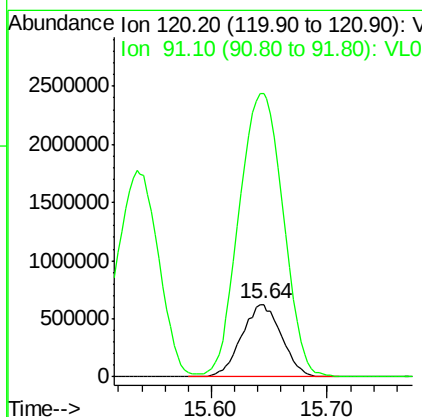
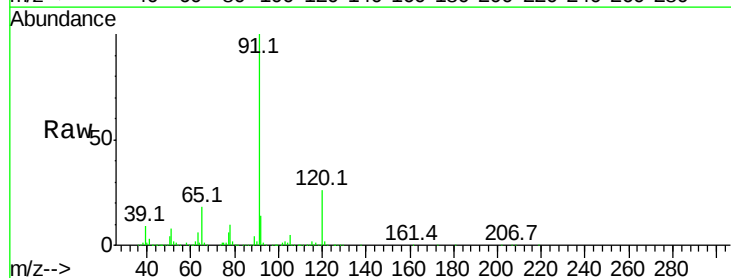
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

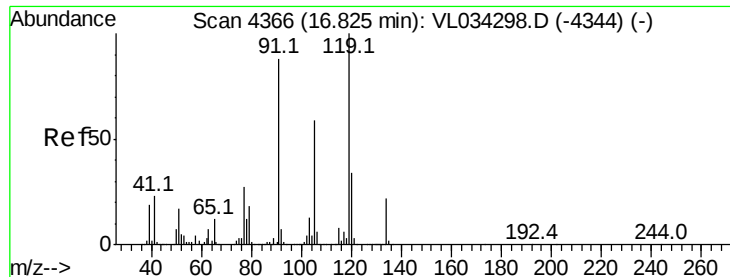
Tgt Ion: 83 Resp: 3019190
 Ion Ratio Lower Upper
 83 100
 131 9.9 4.8 14.4
 85 65.9 32.5 97.4



#64
 n-propylbenzene
 Concen: 13.088 ppbv
 RT: 15.64 min Scan# 3999
 Delta R.T. 0.01 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

Tgt Ion: 120 Resp: 1490283
 Ion Ratio Lower Upper
 120 100
 91 434.1 374.9 562.3





#65

tert-Butylbenzene

Concen: 6.451 ppbv

RT: 16.83 min Scan# 4368

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

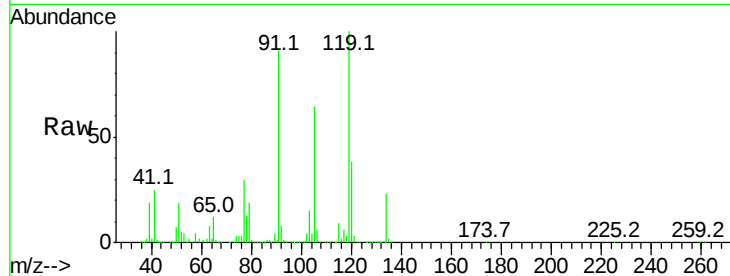
Tgt Ion:119 Resp: 2536934

Ion Ratio Lower Upper

119 100

91 170.0 71.4 107.0#

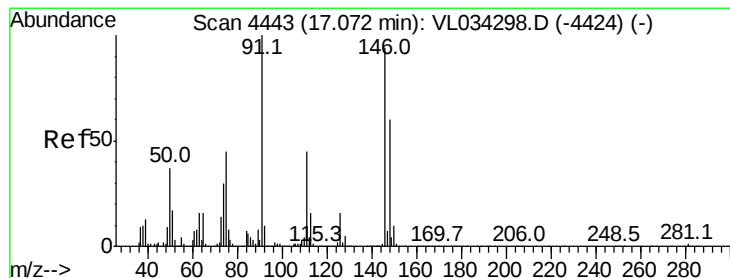
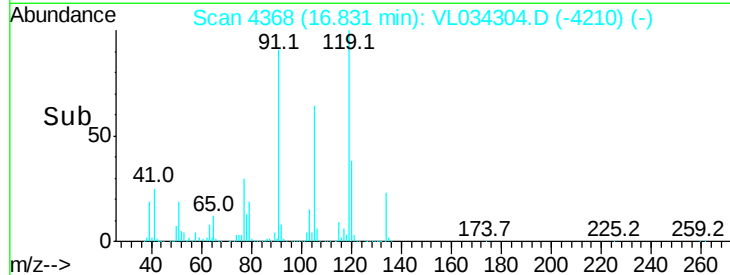
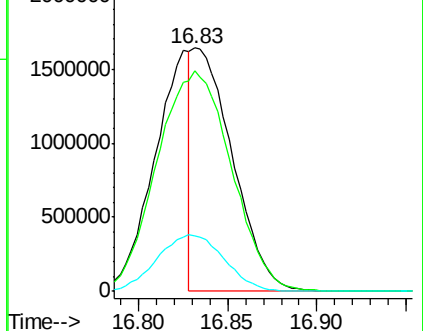
134 39.2 15.9 23.9#



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: 19.190 ppbv

RT: 17.08 min Scan# 4445

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

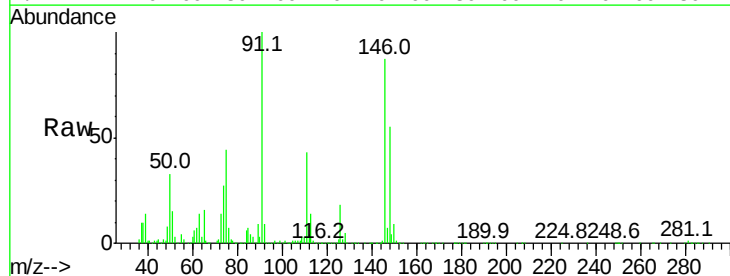
Tgt Ion: 91 Resp: 2669890

Ion Ratio Lower Upper

91 100

126 16.9 12.9 19.3

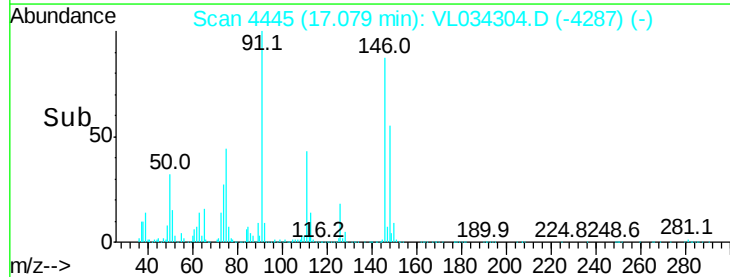
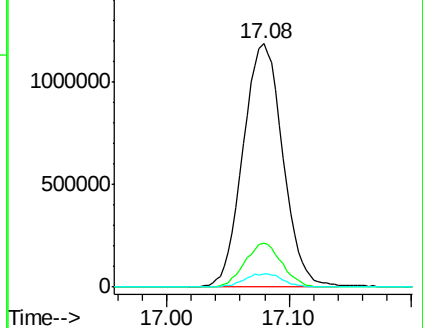
128 5.3 4.3 6.5

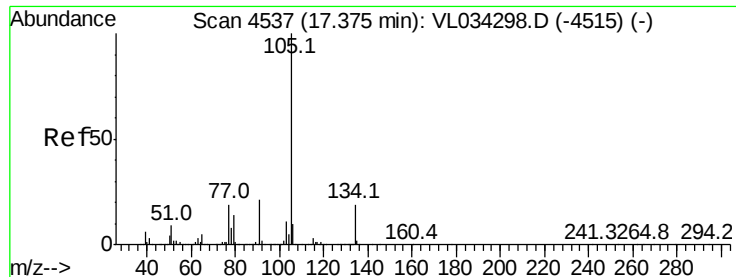


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 11.584 ppbv

RT: 17.38 min Scan# 4539

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

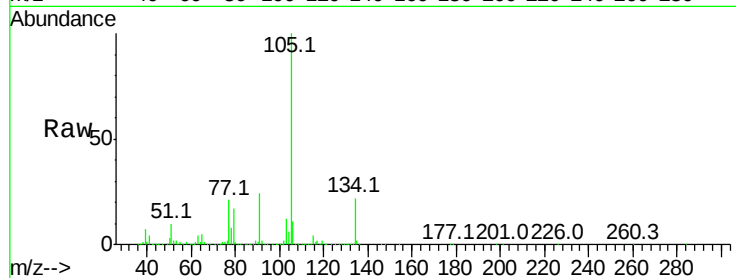
VSTDIC015

Tgt Ion:105 Resp: 6514306

Ion Ratio Lower Upper

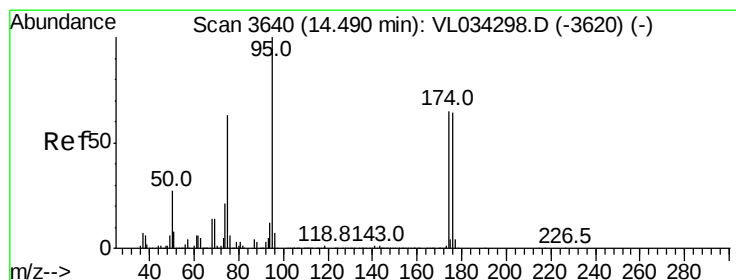
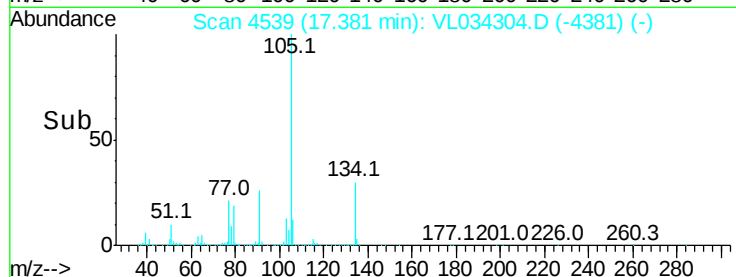
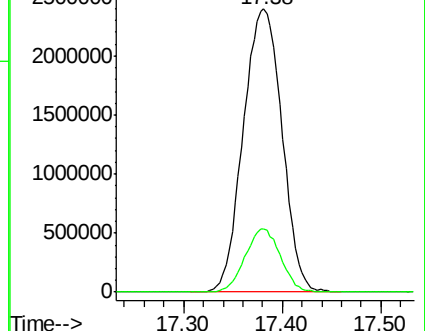
105 100

134 20.5 15.4 23.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.406 ppbv

RT: 14.49 min Scan# 3641

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

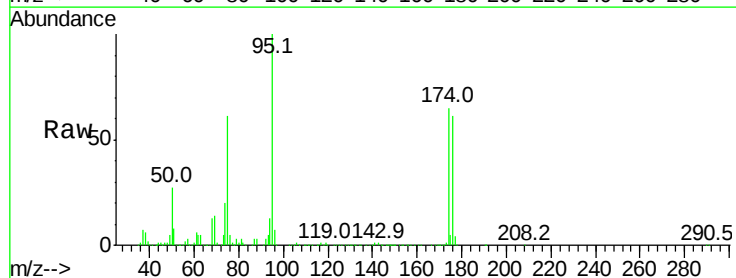
Tgt Ion: 95 Resp: 2126414

Ion Ratio Lower Upper

95 100

174 65.6 52.6 78.8

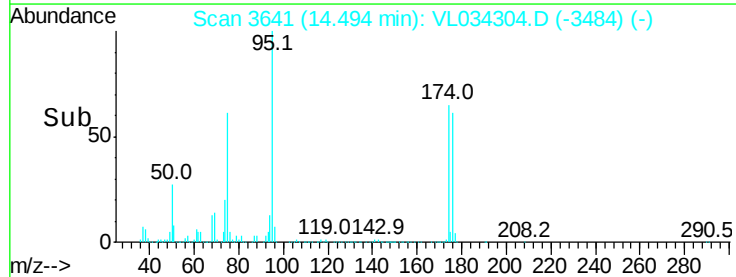
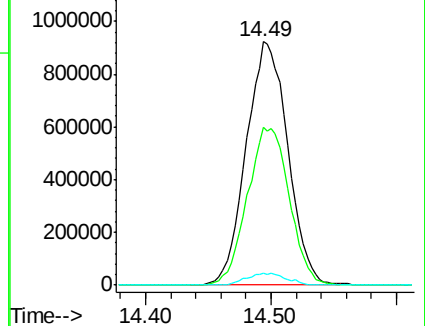
175 4.7 3.8 5.6

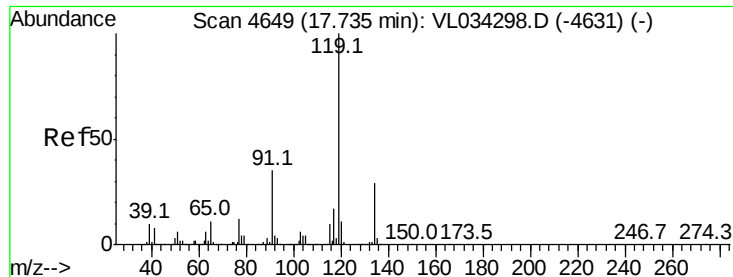


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

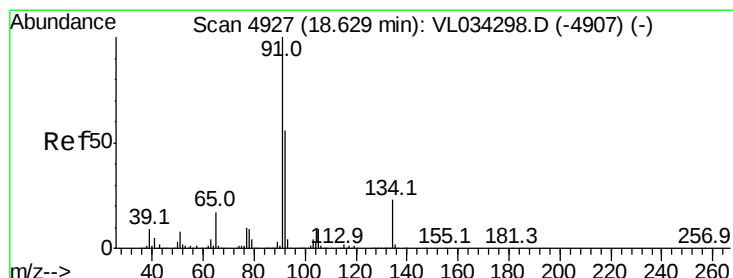
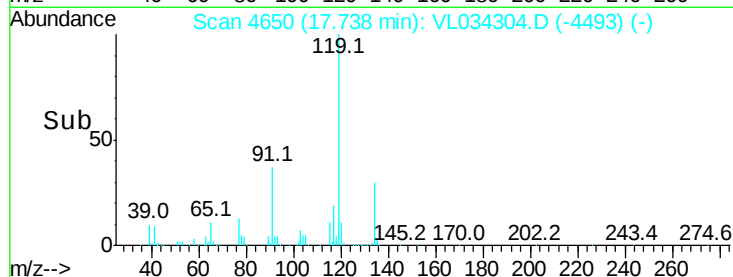
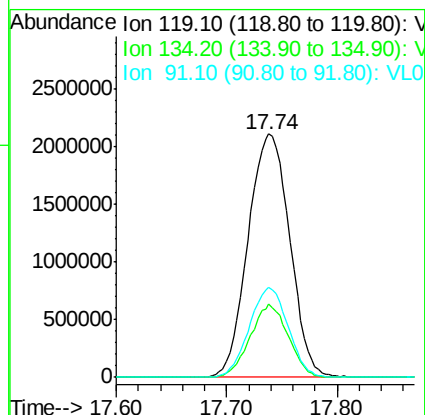
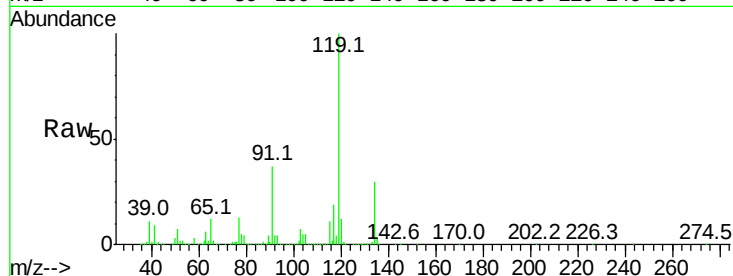




#69
 p-Isopropyltoluene
 Concen: 12.097 ppbv
 RT: 17.74 min Scan# 4650
 Delta R.T. 0.00 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

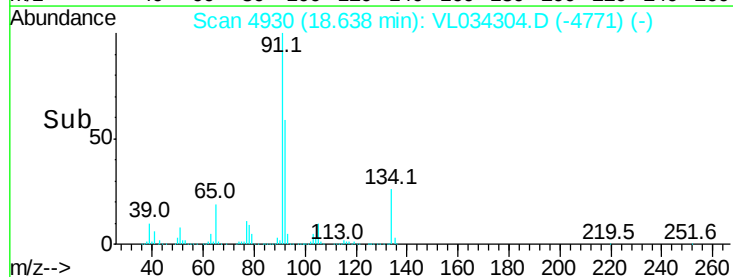
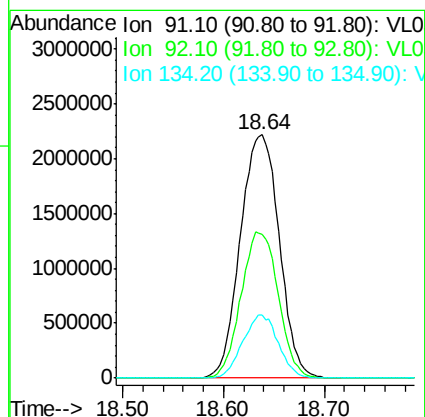
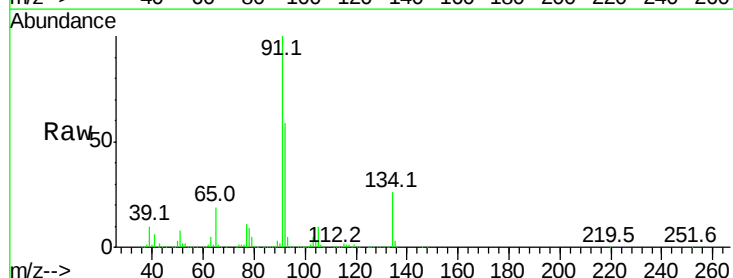
Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

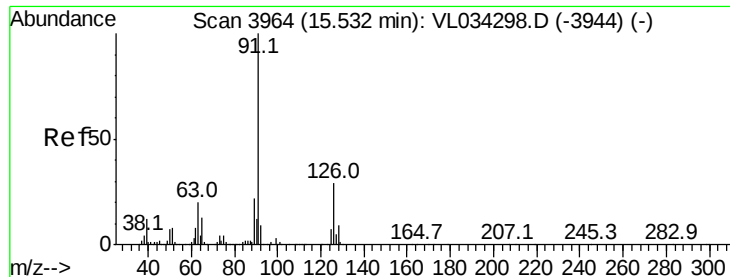
Tgt Ion: 119 Resp: 5508403
 Ion Ratio Lower Upper
 119 100
 134 27.5 21.3 31.9
 91 34.6 26.6 39.8



#70
 n-Butylbenzene
 Concen: 11.186 ppbv
 RT: 18.64 min Scan# 4930
 Delta R.T. 0.01 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

Tgt Ion: 91 Resp: 5930909
 Ion Ratio Lower Upper
 91 100
 92 57.5 44.5 66.7
 134 23.8 18.2 27.2





#71

2-Chlorotoluene

Concen: 11.976 ppbv

RT: 15.54 min Scan# 3965

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

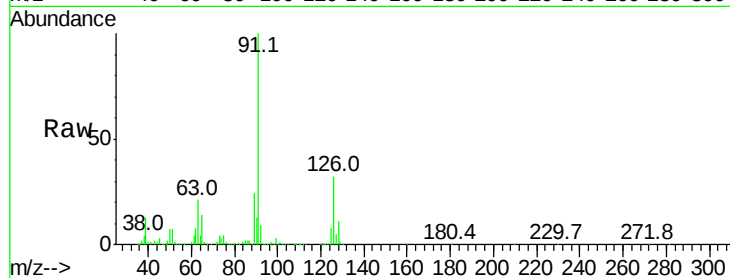
VSTDIC015

Tgt Ion: 91 Resp: 4403809

Ion Ratio Lower Upper

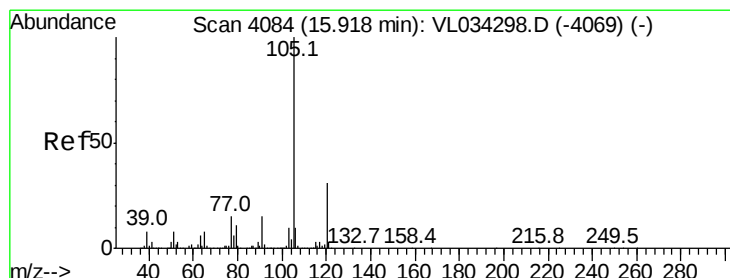
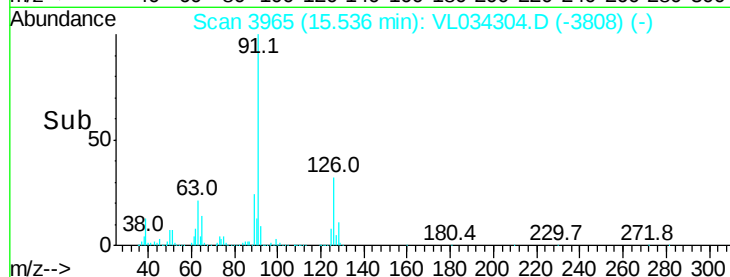
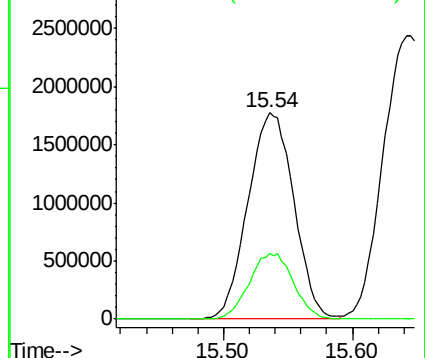
91 100

126 30.6 11.9 47.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 12.239 ppbv

RT: 15.92 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Tgt Ion: 105 Resp: 4807406

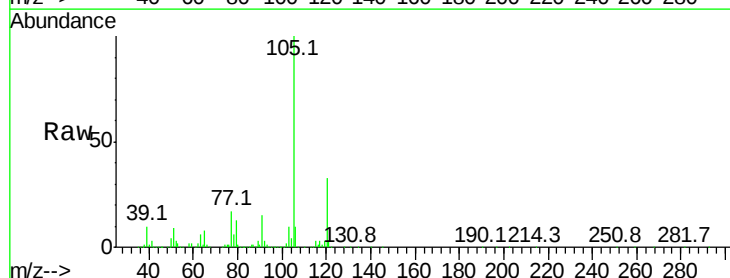
Ion Ratio Lower Upper

105 100

120 31.0 23.8 35.8

91 15.0 11.2 16.8

77 16.6 12.8 19.2

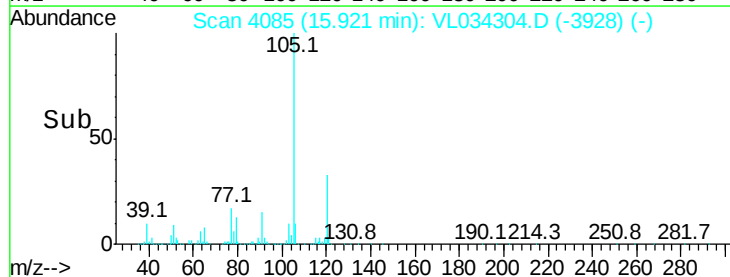
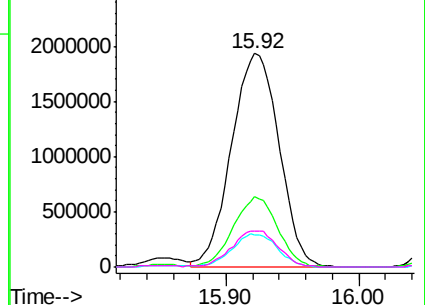


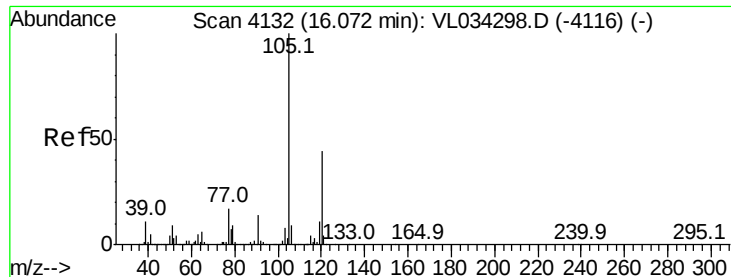
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 12.288 ppbv

RT: 16.08 min Scan# 4134

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

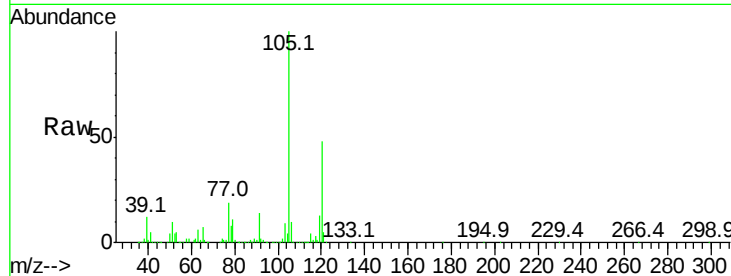
VSTDIC015

Tgt Ion:105 Resp: 4663034

Ion Ratio Lower Upper

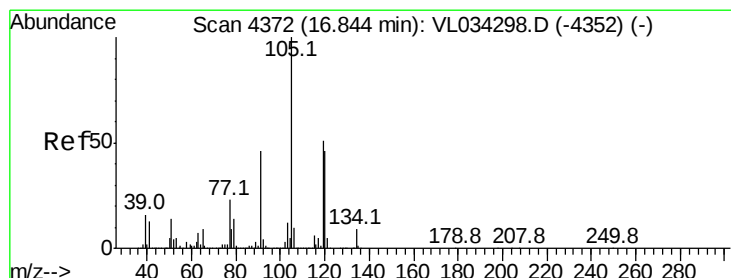
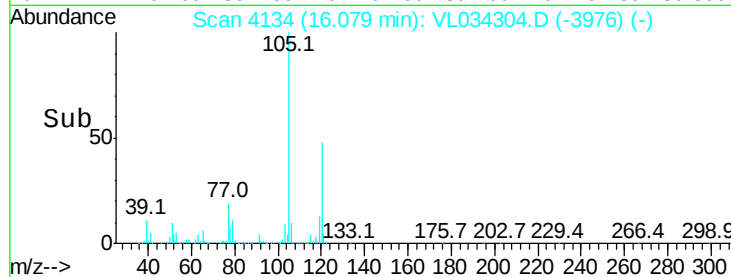
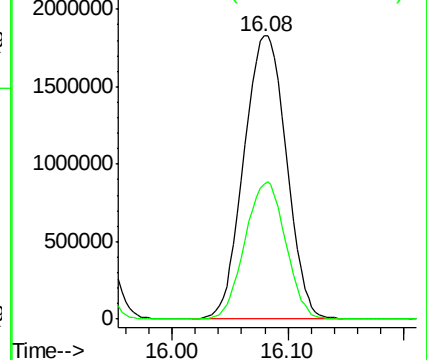
105 100

120 47.5 35.2 52.8



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: 11.654 ppbv

RT: 16.85 min Scan# 4374

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Tgt Ion:105 Resp: 4695861

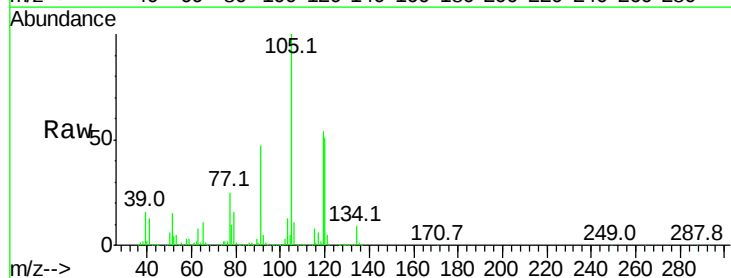
Ion Ratio Lower Upper

105 100

120 50.5 37.0 55.6

91 47.3 38.2 57.2

77 25.0 19.0 28.4

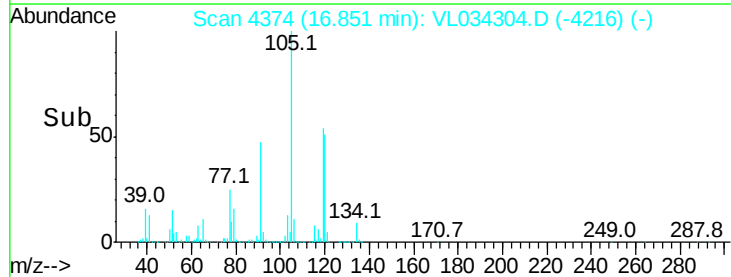
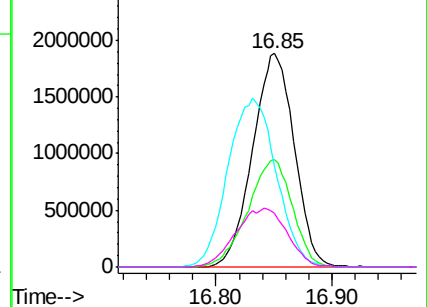


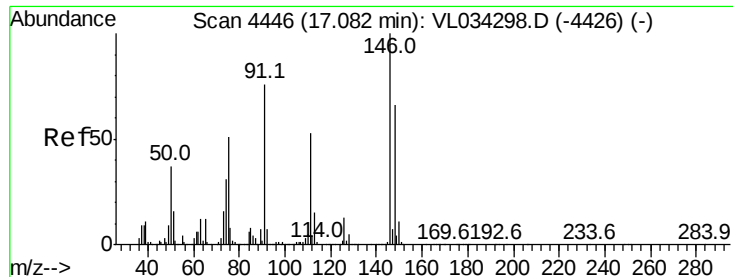
Abundance Ion 105.10 (104.80 to 105.80): V

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: 13.142 ppbv

RT: 17.09 min Scan# 4447

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

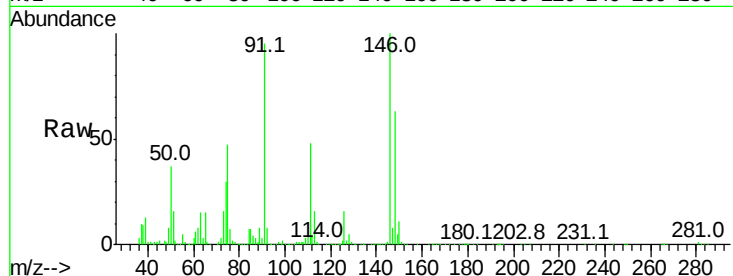
Tgt Ion:146 Resp: 2841041

Ion Ratio Lower Upper

146 100

111 49.3 24.5 73.5

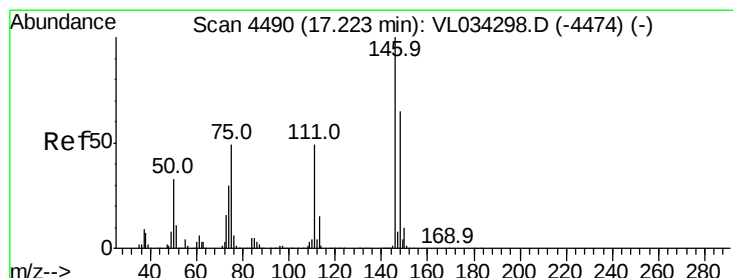
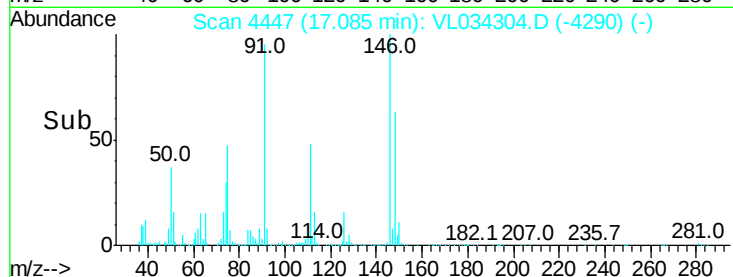
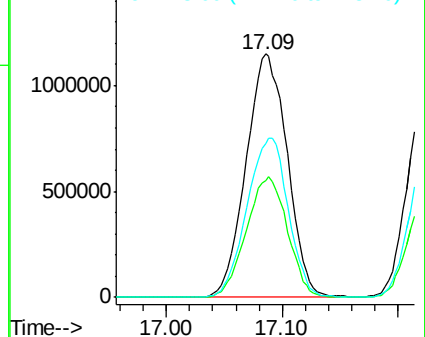
148 65.7 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 12.993 ppbv

RT: 17.23 min Scan# 4492

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

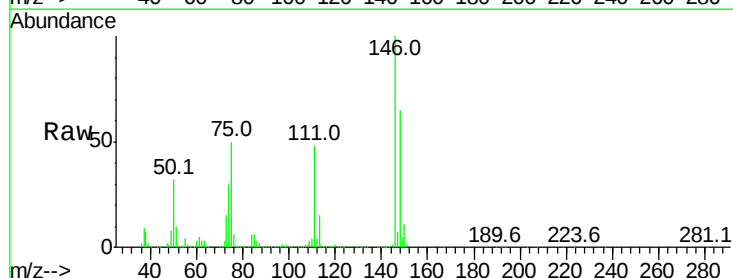
Tgt Ion:146 Resp: 2876515

Ion Ratio Lower Upper

146 100

111 47.8 23.9 71.7

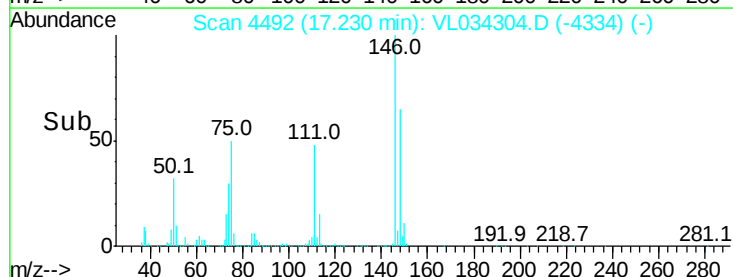
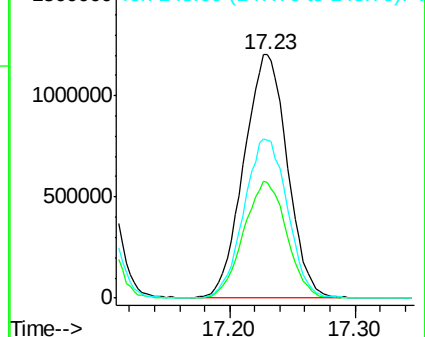
148 65.8 33.1 99.2

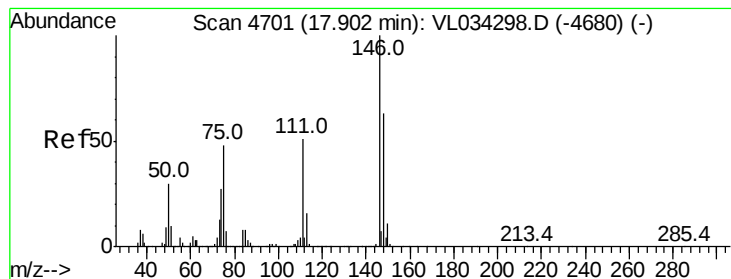


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 12.823 ppbv

RT: 17.91 min Scan# 4703

Delta R.T. 0.01 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

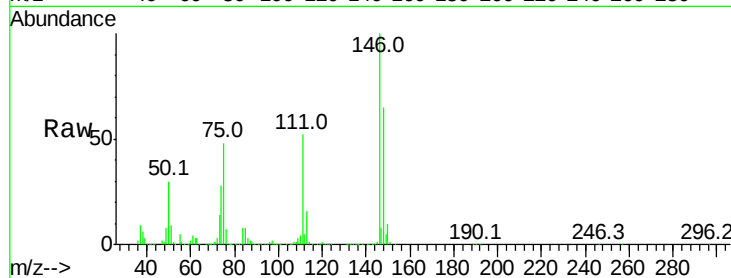
Tgt Ion:146 Resp: 2805776

Ion Ratio Lower Upper

146 100

111 50.3 25.1 75.3

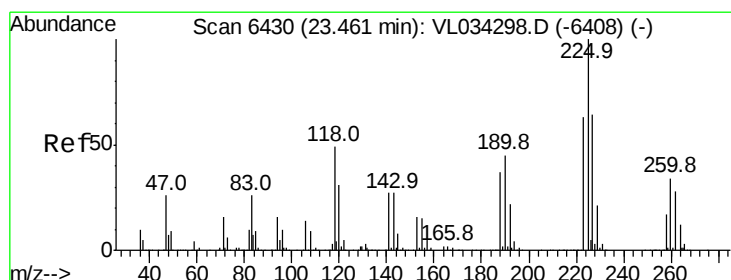
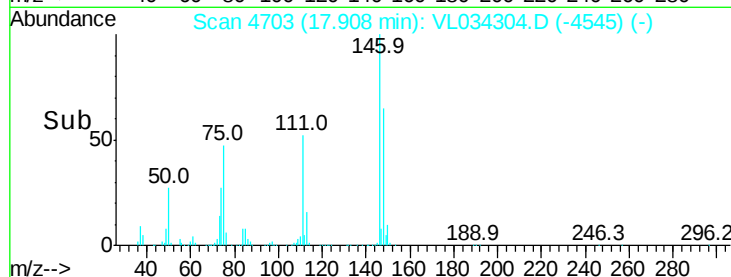
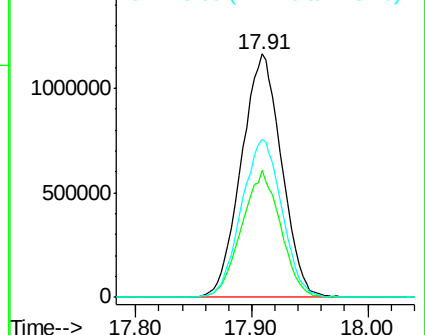
148 65.5 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 16.608 ppbv

RT: 23.46 min Scan# 6431

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

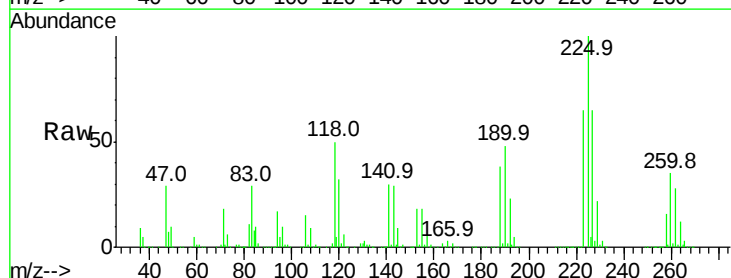
Tgt Ion:225 Resp: 2406923

Ion Ratio Lower Upper

225 100

223 63.5 50.8 76.2

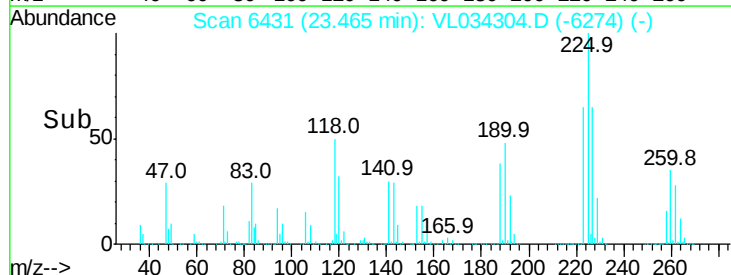
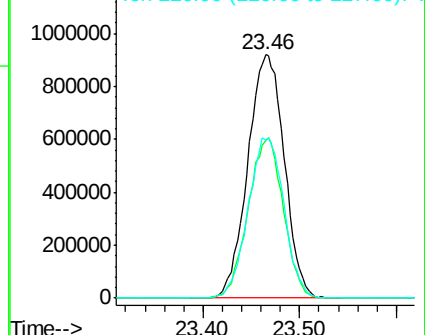
227 64.9 51.5 77.3

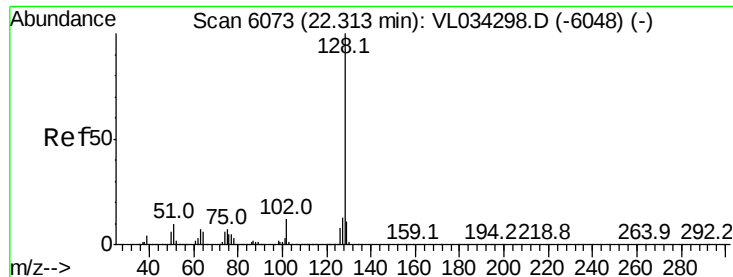


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.781 ppbv

RT: 22.31 min Scan# 6073

Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Instrument :

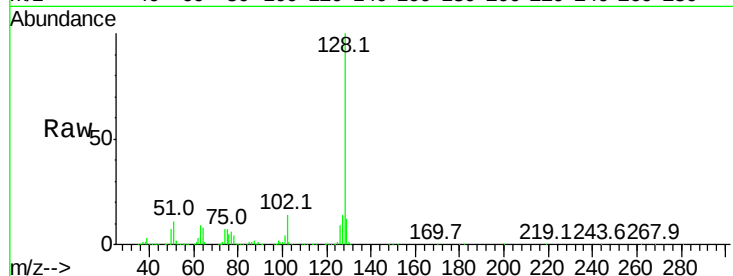
MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:128 Resp: 4179080

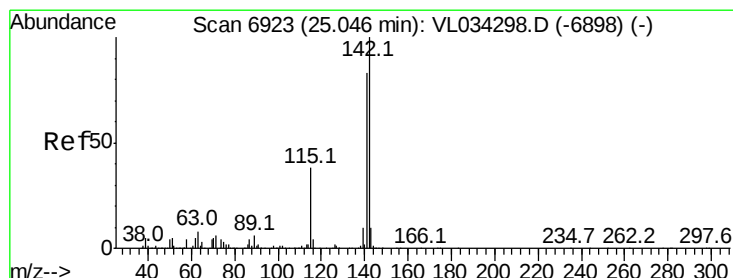
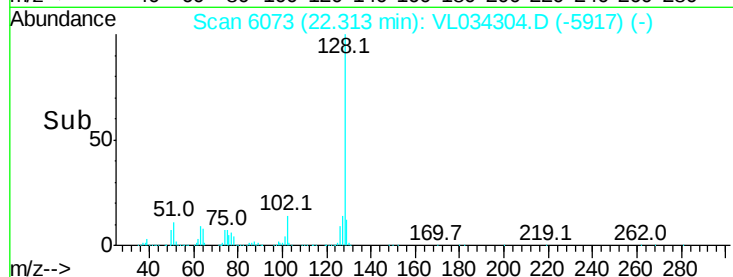
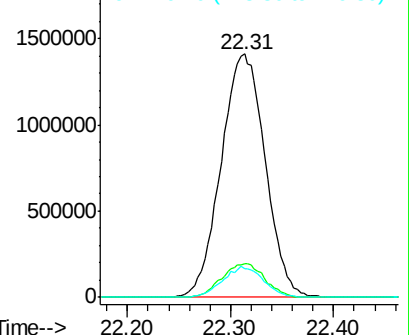
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.4
129	11.9	8.9	13.3



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



#80

Naphthalene, 2-methyl-

Concen: 13.027 ppbv

RT: 25.05 min Scan# 6924

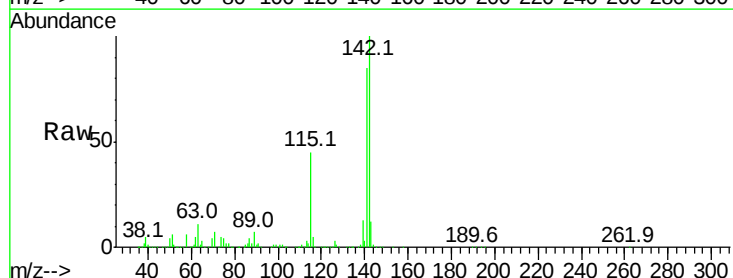
Delta R.T. 0.00 min

Lab File: VL034304.D

Acq: 16 Oct 2019 16:48

Tgt Ion:142 Resp: 2148932

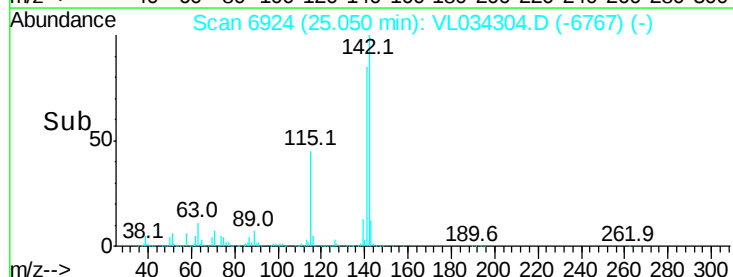
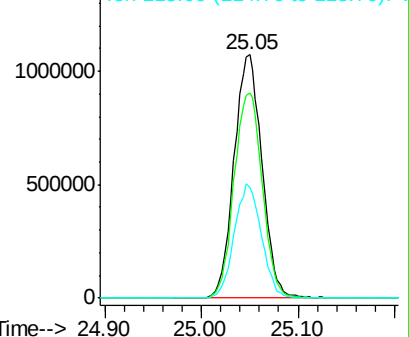
Ion	Ratio	Lower	Upper
142	100		
141	85.7	65.7	98.5
115	45.6	30.9	46.3

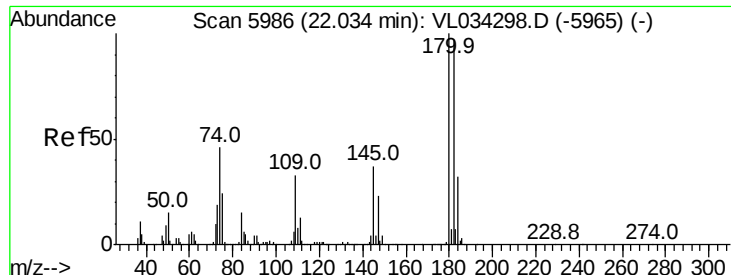


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 12.948 ppbv
 RT: 22.04 min Scan# 5988
 Delta R.T. 0.01 min
 Lab File: VL034304.D
 Acq: 16 Oct 2019 16:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 2544260
 Ion Ratio Lower Upper
 180 100
 182 96.6 77.8 116.8
 184 32.0 25.4 38.2

