

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034308.D
 Acq On : 16 Oct 2019 21:25
 Operator : SY/AP
 Sample : VL1016ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 17 05:24:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1134271	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.24	114	2226558	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.18	117	2939548	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	1983738	7.97	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	79.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	1469364	7.514	ppbv 100
3) Chlorodifluoromethane	2.98	51	1291894	9.717	ppbv 100
4) Chloromethane	3.13	50	804048	10.224	ppbv 100
5) Vinyl Chloride	3.25	62	732753	9.772	ppbv 97
6) Bromomethane	3.47	94	377489	10.281	ppbv 95
7) Chloroethane	3.56	64	270848	10.263	ppbv 98
8) Dichlorotetrafluoroethane	3.18	85	1617088	9.544	ppbv 99
9) Propene	3.00	41	606780	10.296	ppbv 98
10) Heptane	8.19	43	1583304	10.467	ppbv 100
11) Trichlorofluoromethane	3.96	101	1781986	9.598	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1194981	9.825	ppbv 99
13) Ethanol	3.61	45	126304	9.572	ppbv 97
14) Bromoethene	3.75	108	501691	10.476	ppbv 98
15) Acetone	3.86	43	1358130	8.371	ppbv 99
16) 1,3-Butadiene	3.32	39	695317	10.548	ppbv 100
17) tert-Butyl alcohol	4.31	59	1222234	11.804	ppbv 99
18) 1,1-Dichloroethene	4.31	96	539733	10.135	ppbv 95
19) Isopropyl Alcohol	3.98	45	1014921	11.214	ppbv 100
20) Methylene Chloride	4.36	84	475440	8.106	ppbv 90
21) Allyl Chloride	4.43	41	954488	10.642	ppbv 99
22) trans-1,2-Dichloroethene	4.92	96	554808	10.445	ppbv 98
23) Vinyl Acetate	5.11	43	2189207	10.805	ppbv 98
24) 1,1-Dichloroethane	5.04	63	1504405	10.005	ppbv 99
25) Ethyl Acetate	5.72	43	2693251	9.833	ppbv 99
26) Hexane	5.73	57	1140051	9.765	ppbv 99
27) Carbon Disulfide	4.57	76	1382319	11.405	ppbv 100
28) Methyl tert-Butyl Ether	5.06	73	1884910	10.668	ppbv 100
29) Chloroform	5.80	83	1813042	9.818	ppbv 95
30) Cyclohexane	7.20	84	407667	4.748	ppbv # 1
31) cis-1,2-Dichloroethene	5.59	61	1258102	10.618	ppbv 98
32) 1,1,1-Trichloroethane	6.56	97	1807581	10.065	ppbv 100
34) 2-Butanone	5.28	43	1836037	10.088	ppbv 100
35) Carbon Tetrachloride	7.08	117	1887898	9.735	ppbv 97
36) Benzene	6.95	78	2173976	10.176	ppbv 99
37) 1,2-Dichloroethane	6.36	62	1595942	10.024	ppbv 99
38) Trichloroethene	7.91	130	823120	9.602	ppbv 91
39) 1,2-Dichloropropane	7.68	63	929495	10.104	ppbv 99
40) 1,4-Dioxane	7.90	88	338216	10.462	ppbv # 1
41) Tetrahydrofuran	6.10	42	1066428	10.558	ppbv 99
42) Bromodichloromethane	7.86	83	2001832	10.265	ppbv 100
43) Methyl Methacrylate	8.08	69	955353	10.813	ppbv 99

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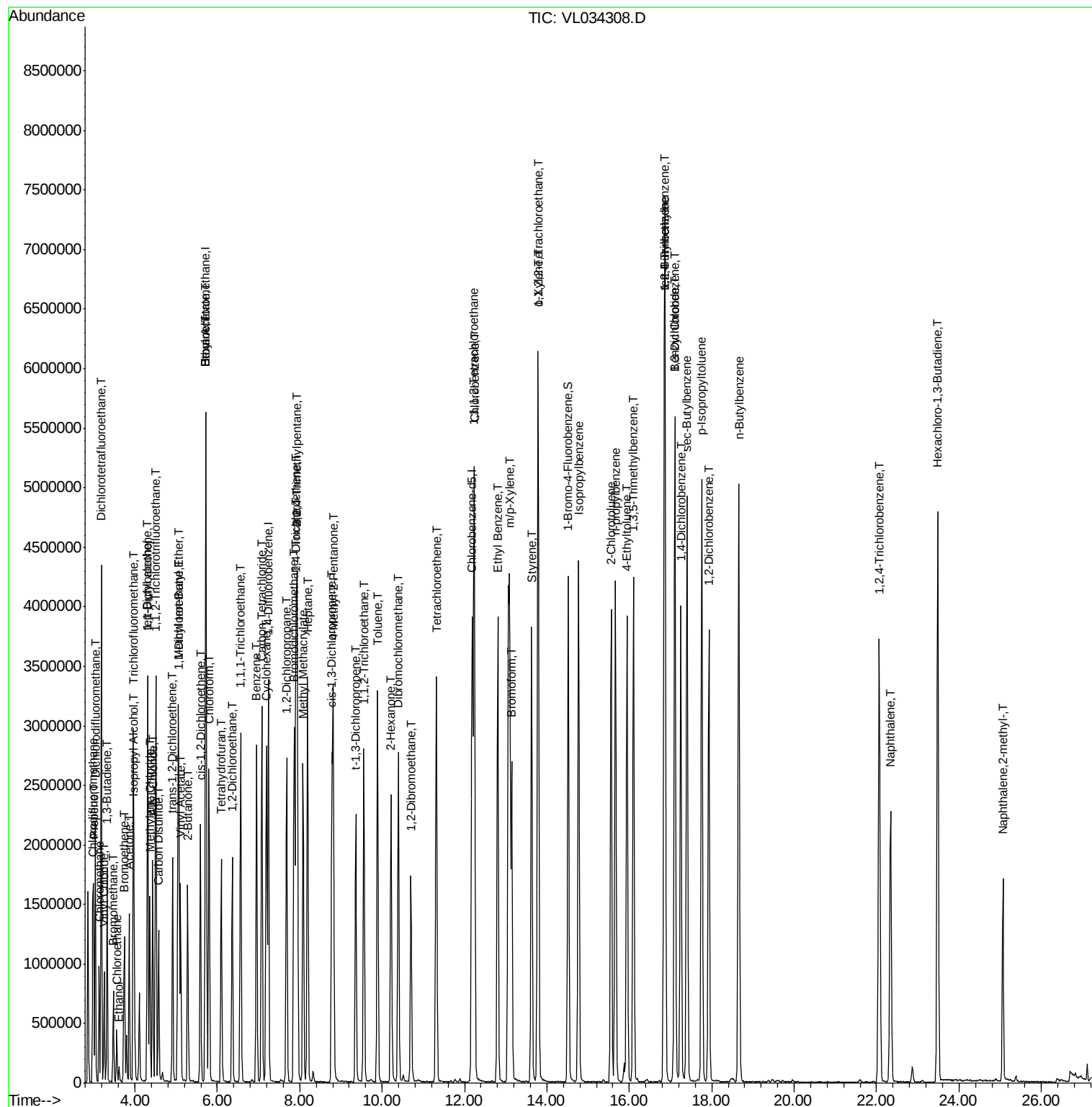
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3913059	9.896	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1275376	11.847	ppbv	100
46) cis-1,3-Dichloropropene	8.78	75	1449348	11.719	ppbv	96
47) 1,1,2-Trichloroethane	9.56	97	917571	9.848	ppbv	95
48) Dibromochloromethane	10.39	129	1652506	10.812	ppbv	100
49) Bromoform	13.15	173	1523601	11.249	ppbv	100
50) 4-Methyl-2-Pentanone	8.81	43	2715266	10.422	ppbv	100
51) 2-Hexanone	10.21	43	2312670	10.828	ppbv #	99
52) Tetrachloroethene	11.31	164	815464	9.738	ppbv	99
53) Toluene	9.89	91	2494730	10.582	ppbv	100
54) 1,2-Dibromoethane	10.70	107	1406183	10.182	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.22	131	532953	3.934	ppbv #	9
57) Chlorobenzene	12.24	112	1911309	7.794	ppbv	99
58) Ethyl Benzene	12.81	91	3469170	8.442	ppbv	98
59) m/p-Xylene	13.09	91	2246675	6.310	ppbv #	1
60) o-Xylene	13.79	91	2863688	8.077	ppbv	99
61) Styrene	13.63	104	2135398	8.556	ppbv	99
62) Isopropylbenzene	14.77	105	3722100	7.953	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	2044204	7.175	ppbv	99
64) n-propylbenzene	15.67	120	995480	8.288	ppbv	99
65) tert-Butylbenzene	16.85	119	3347389	8.070	ppbv	100
66) Benzyl Chloride	17.10	91	1716402	10.477	ppbv	100
67) sec-Butylbenzene	17.40	105	4619955	7.915	ppbv	100
69) p-Isopropyltoluene	17.76	119	3879394	8.152	ppbv	99
70) n-Butylbenzene	18.66	91	4164164	8.042	ppbv	100
71) 2-Chlorotoluene	15.56	91	2976229	8.202	ppbv	99
72) 4-Ethyltoluene	15.94	105	3327201	8.349	ppbv	100
73) 1,3,5-Trimethylbenzene	16.10	105	3185040	8.066	ppbv	95
74) 1,2,4-Trimethylbenzene	16.87	105	3294706	8.001	ppbv	99
75) 1,3-Dichlorobenzene	17.11	146	1907705	7.716	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	1942721	8.045	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1874358	7.733	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1360642	6.786	ppbv	100
79) Naphthalene	22.34	128	2858113	9.502	ppbv	100
80) Naphthalene, 2-methyl-	25.07	142	948128	10.905	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	1720167	8.756	ppbv	100

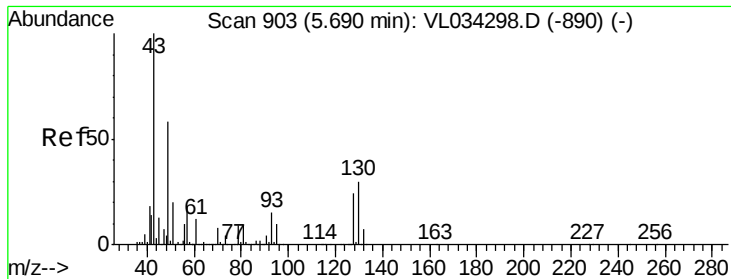
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.02 min

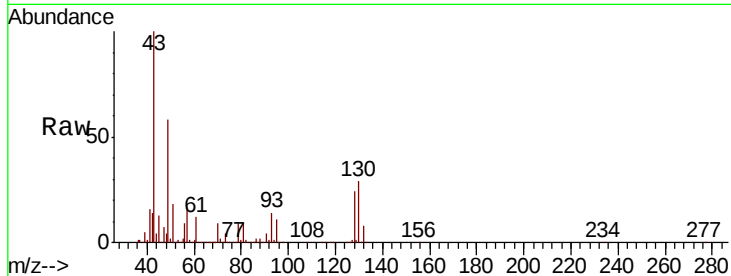
Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1134271

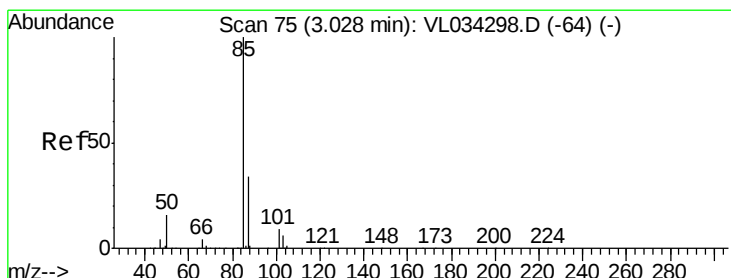
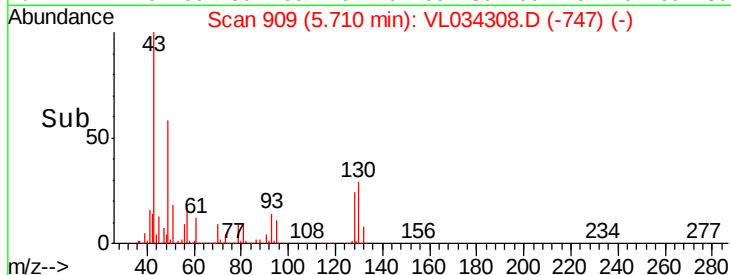
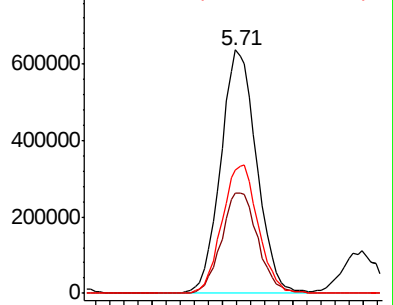
Ion	Ratio	Lower	Upper
49	100		
128	41.7	20.6	61.8
130	53.1	26.2	78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.514 ppbv

RT: 3.04 min Scan# 79

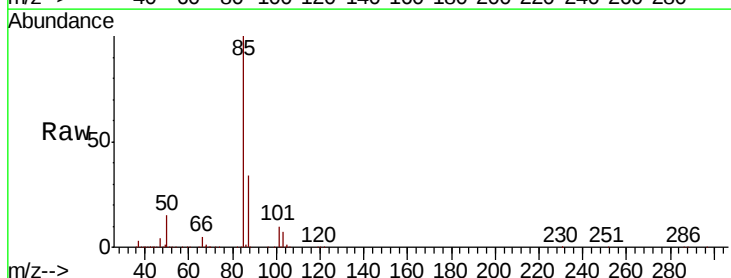
Delta R.T. 0.01 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

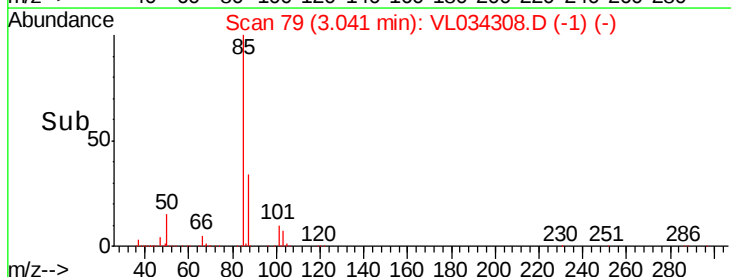
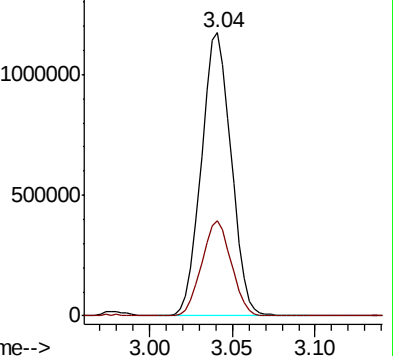
Tgt Ion: 85 Resp: 1469364

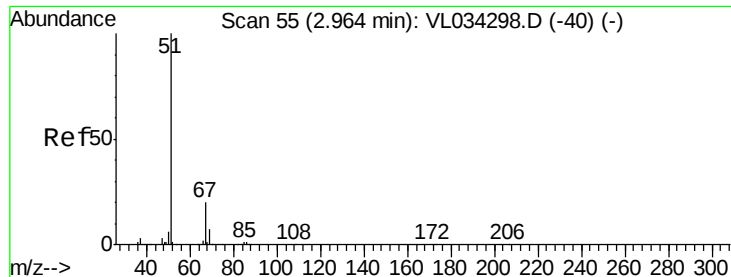
Ion	Ratio	Lower	Upper
85	100		
87	33.6	27.0	40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.717 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

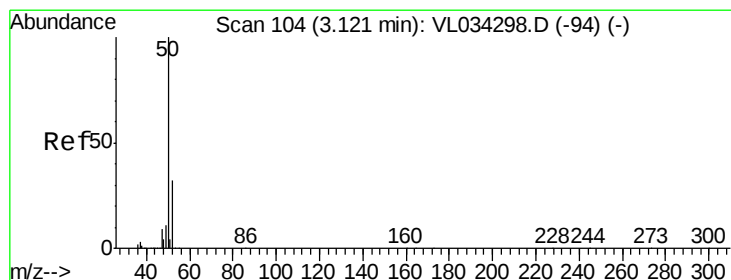
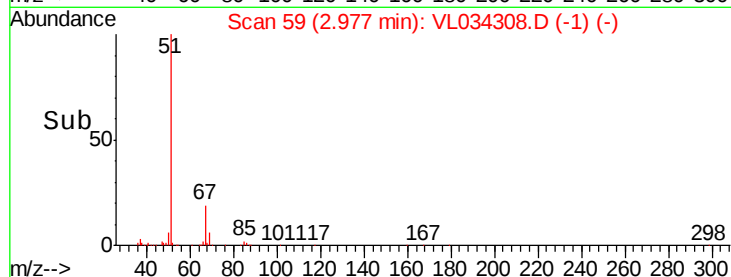
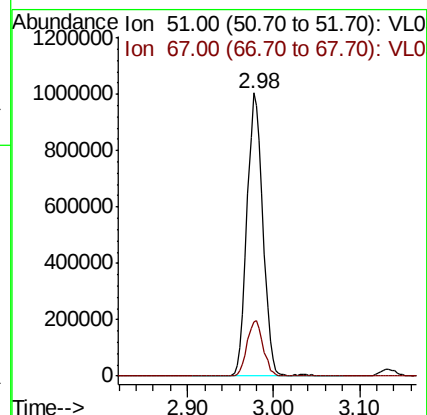
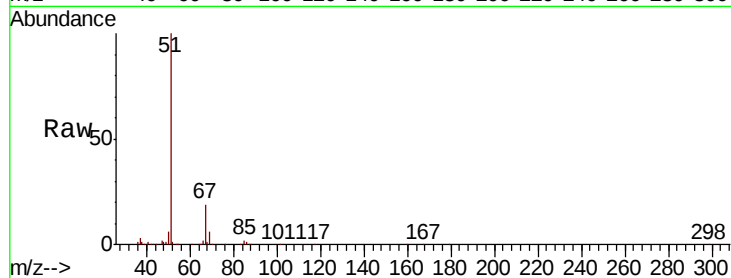
ClientSampleId :

Tot Ion: 51 Resp: 1291894

Ion Ratio Lower Upper

51 100

67 19.9 15.8 23.8



#4

Chloromethane

Concen: 10.224 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL034308.D

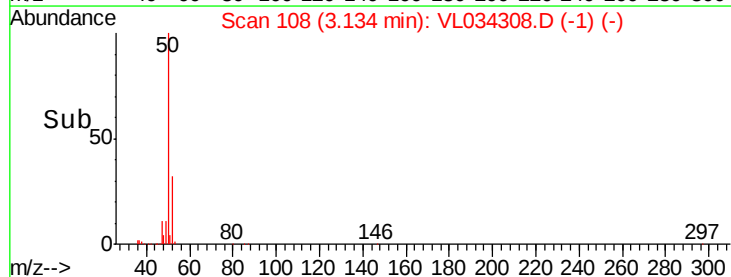
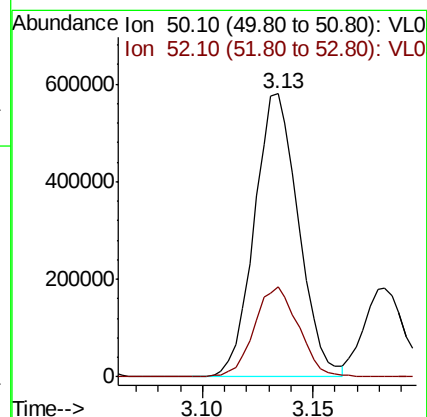
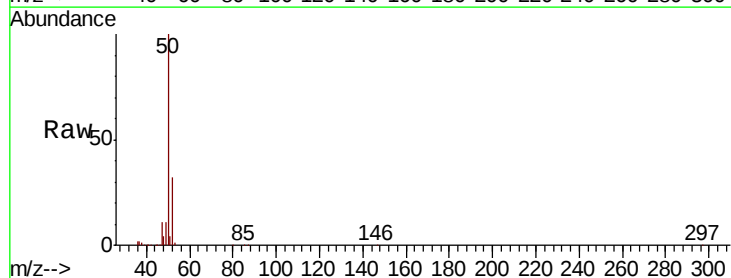
Acq: 16 Oct 2019 21:25

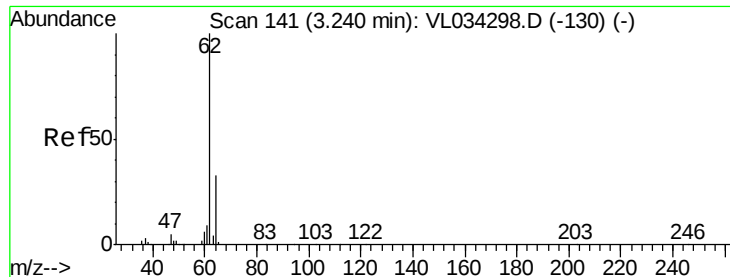
Tgt Ion: 50 Resp: 804048

Ion Ratio Lower Upper

50 100

52 31.9 25.4 38.2





#5

Vinyl Chloride

Concen: 9.772 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.01 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

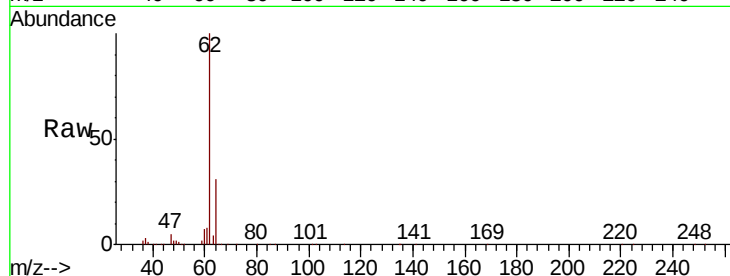
ClientSampled :

Tot Ion: 62 Resp: 732753

Ion Ratio Lower Upper

62 100

64 30.8 26.0 39.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

600000

500000

400000

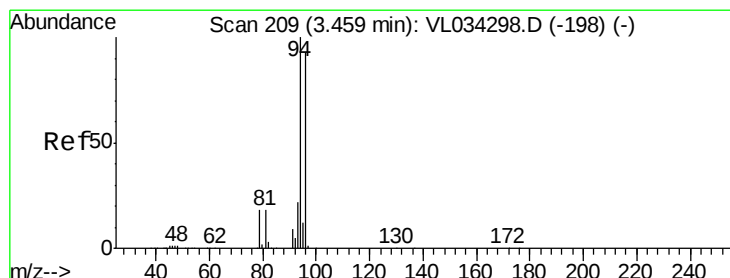
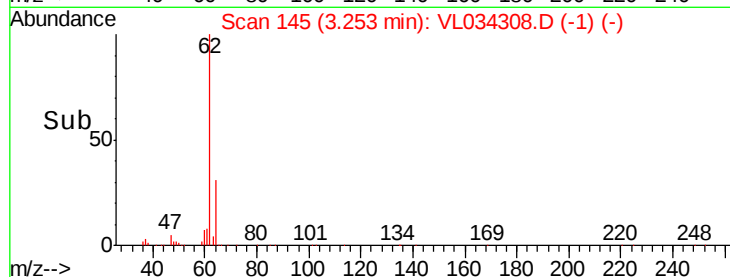
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.281 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.02 min

Lab File: VL034308.D

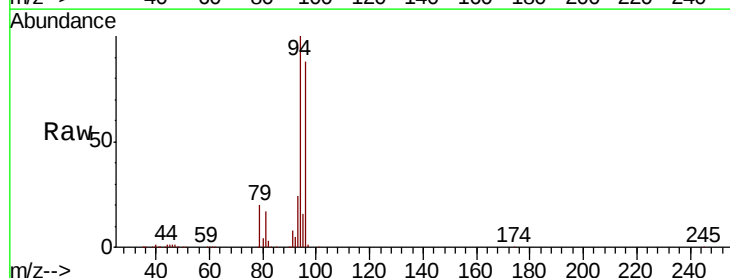
Acq: 16 Oct 2019 21:25

Tgt Ion: 94 Resp: 377489

Ion Ratio Lower Upper

94 100

96 88.1 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

300000

250000

200000

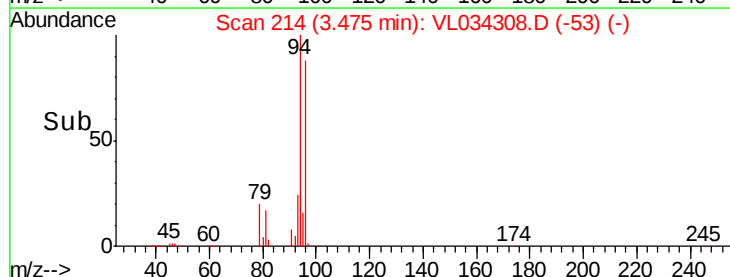
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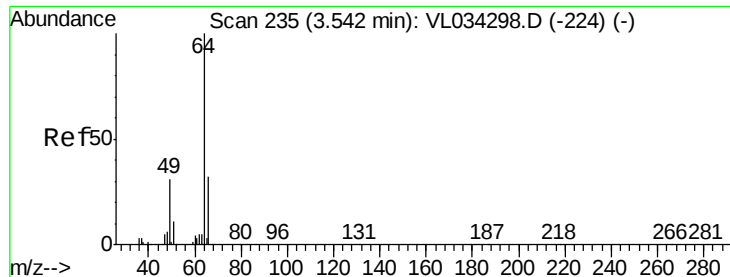
100000

50000

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Time-->





#7

Chloroethane

Concen: 10.263 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

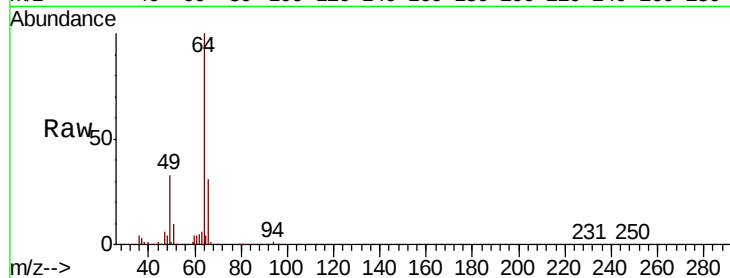
ClientSampleId :

Tot Ion: 64 Resp: 270848

Ion Ratio Lower Upper

64 100

66 30.9 25.4 38.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.56

200000

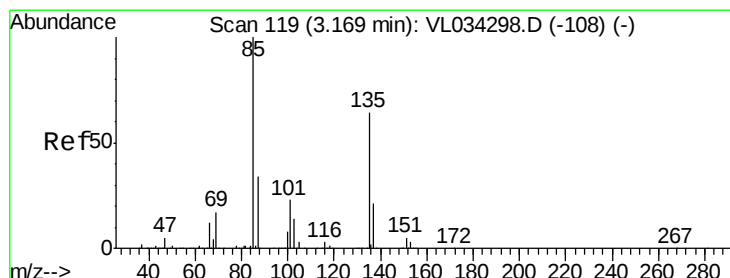
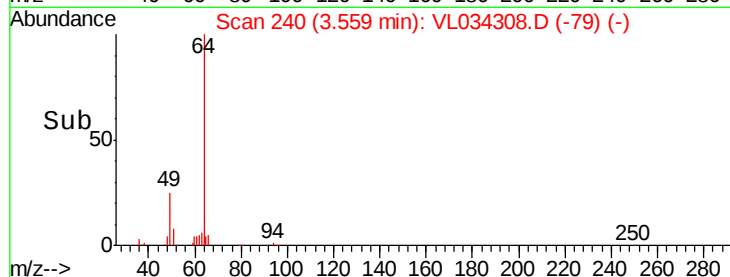
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.544 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.01 min

Lab File: VL034308.D

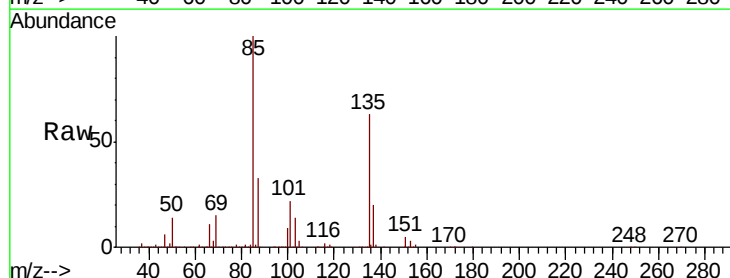
Acq: 16 Oct 2019 21:25

Tgt Ion: 85 Resp: 1617088

Ion Ratio Lower Upper

85 100

135 63.3 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.18

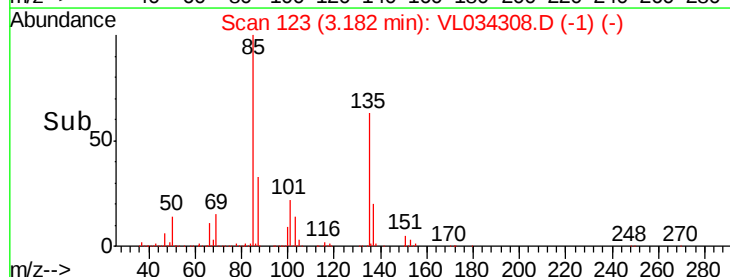
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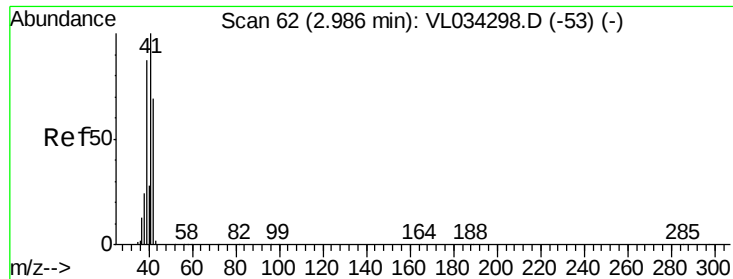
1000000

500000

0

Time-->





#9

Propene

Concen: 10.296 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

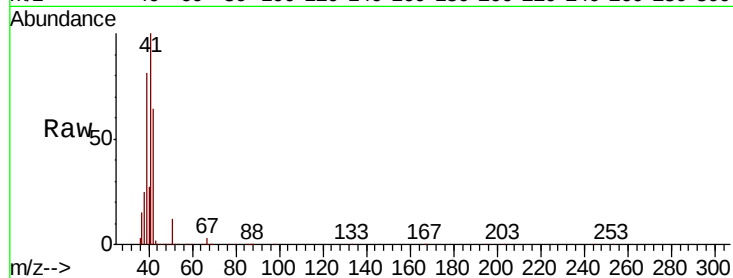
ClientSampleId :

Tot Ion: 41 Resp: 606780

Ion Ratio Lower Upper

41 100

42 69.3 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

500000

400000

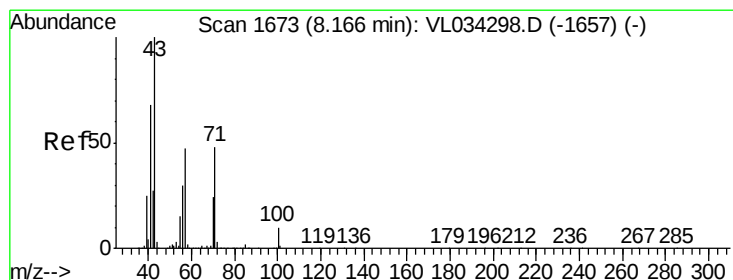
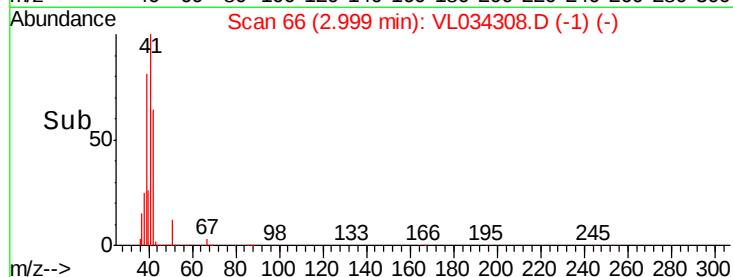
300000

200000

100000

0

Time-->



#10

Heptane

Concen: 10.467 ppbv

RT: 8.19 min Scan# 1681

Delta R.T. 0.03 min

Lab File: VL034308.D

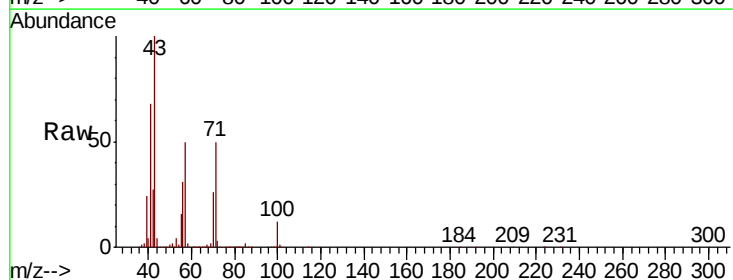
Acq: 16 Oct 2019 21:25

Tgt Ion: 43 Resp: 1583304

Ion Ratio Lower Upper

43 100

57 49.1 39.5 59.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.19

800000

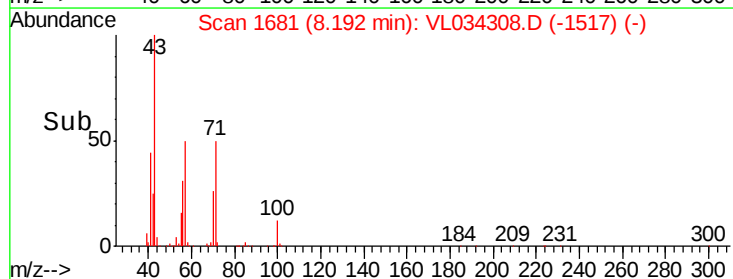
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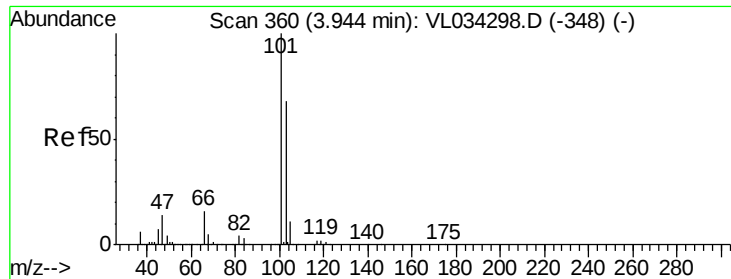
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200000

0

Time-->

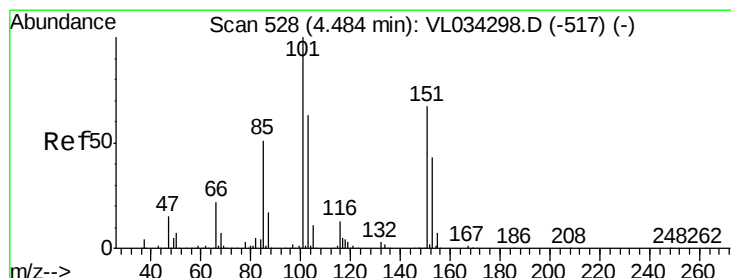
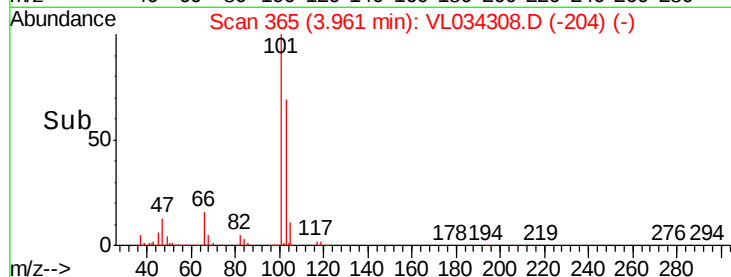
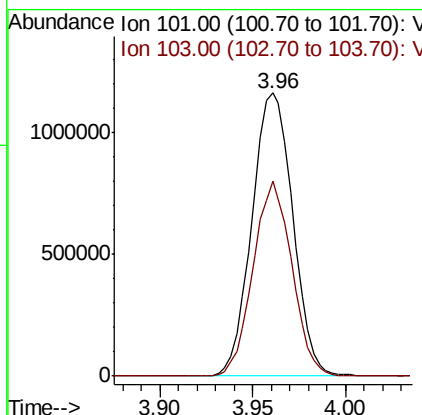
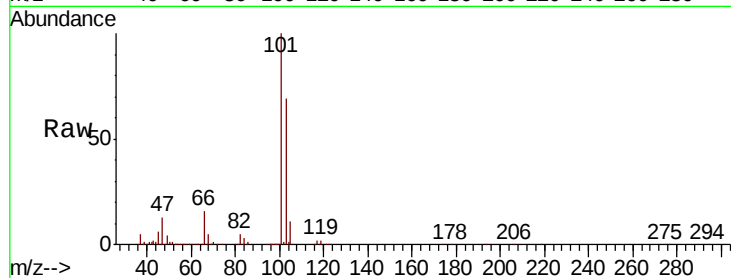




#11
 Trichlorofluoromethane
 Concen: 9.598 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

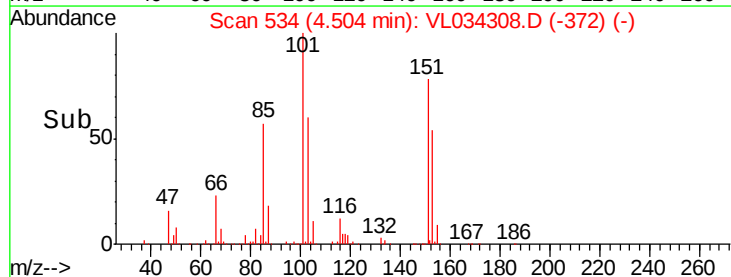
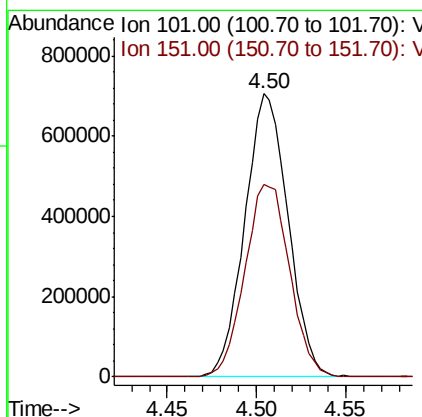
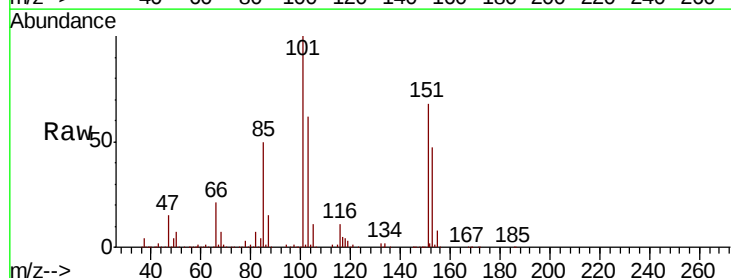
Instrument :
 MSVOA_L
 ClientSampled :

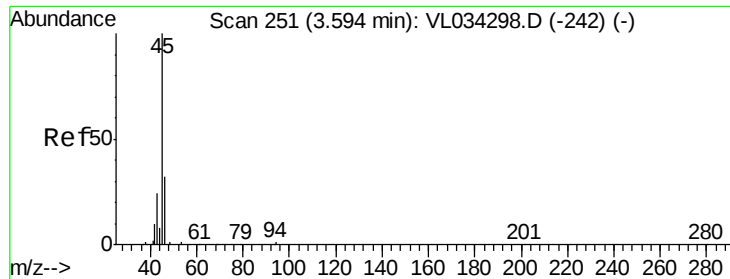
Tot Ion:101 Resp: 1781986
 Ion Ratio Lower Upper
 101 100
 103 69.0 54.5 81.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.825 ppbv
 RT: 4.50 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion:101 Resp: 1194981
 Ion Ratio Lower Upper
 101 100
 151 70.8 57.4 86.2





#13

Ethanol

Concen: 9.572 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

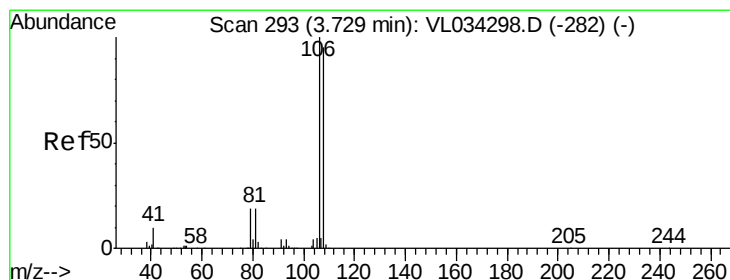
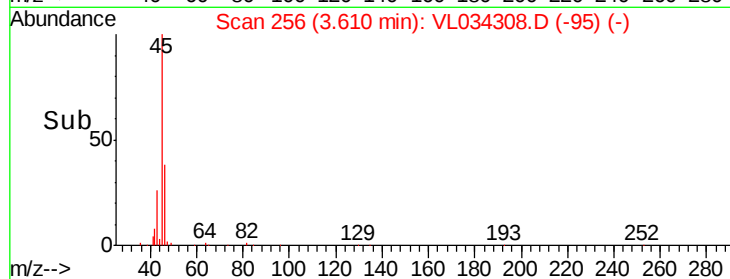
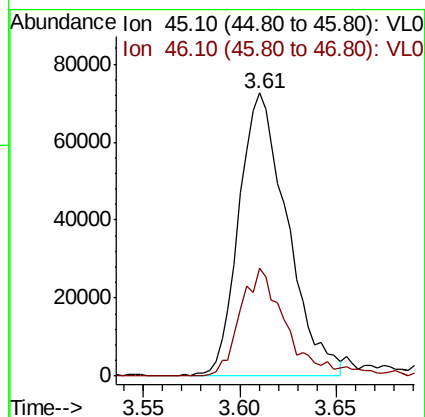
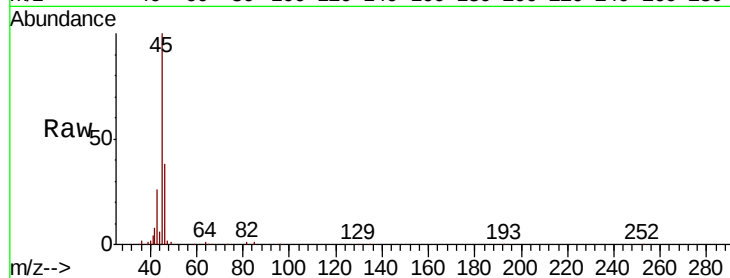
ClientSampleId :

Tot Ion: 45 Resp: 126304

Ion Ratio Lower Upper

45 100

46 37.8 15.8 63.2



#14

Bromoethene

Concen: 10.476 ppbv

RT: 3.75 min Scan# 298

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

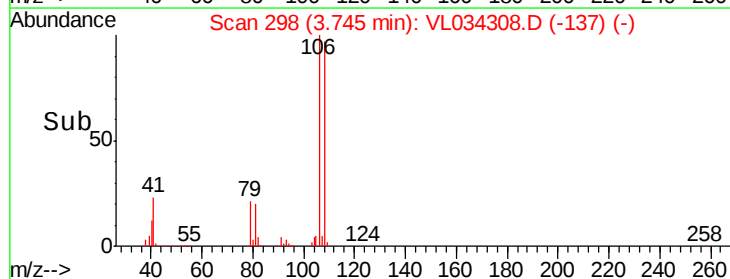
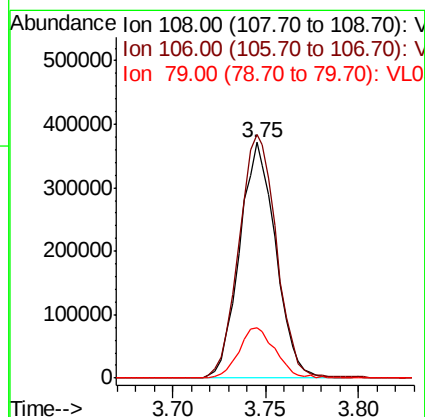
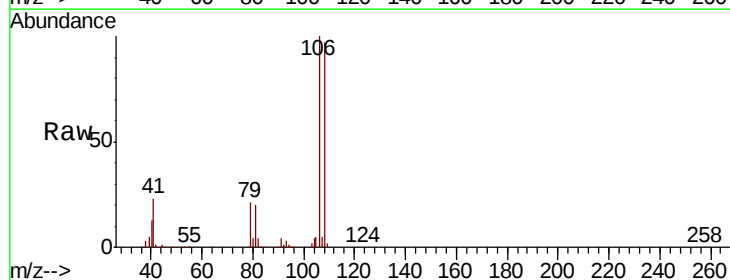
Tgt Ion: 108 Resp: 501691

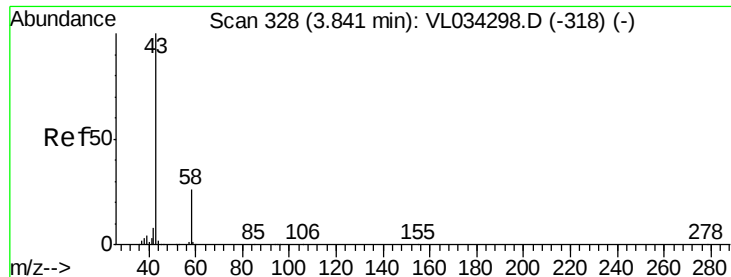
Ion Ratio Lower Upper

108 100

106 107.6 84.8 127.2

79 21.9 17.0 25.4





#15

Acetone

Concen: 8.371 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

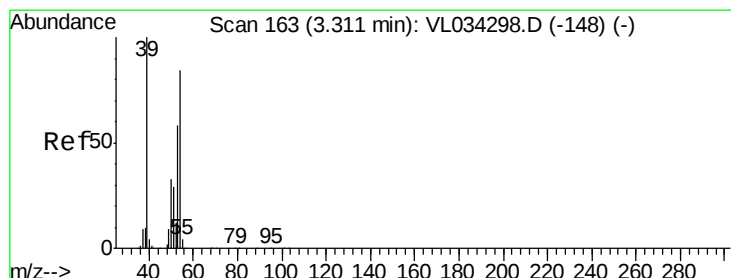
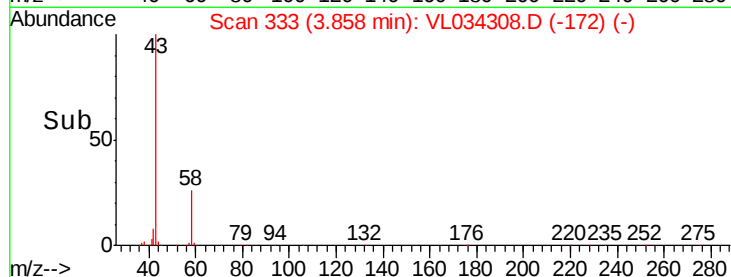
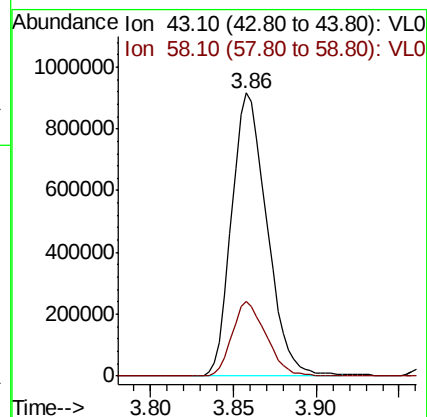
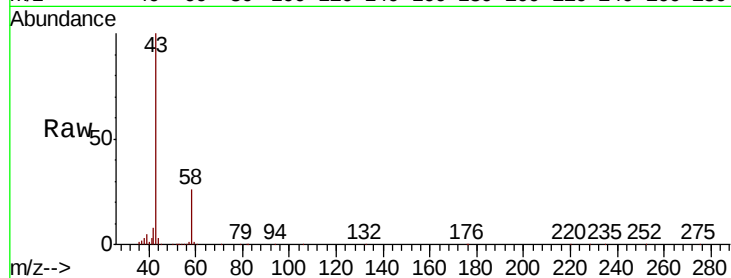
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1358130

Ion Ratio Lower Upper

43 100

58 25.8 20.4 30.6



#16

1,3-Butadiene

Concen: 10.548 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.01 min

Lab File: VL034308.D

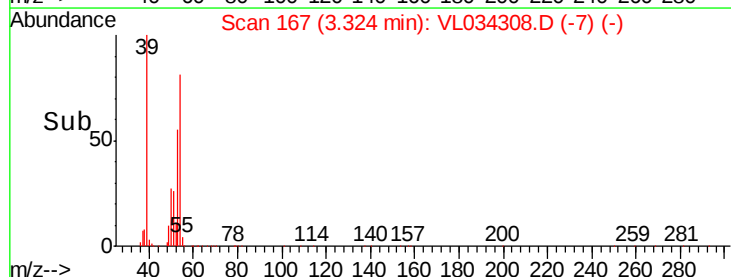
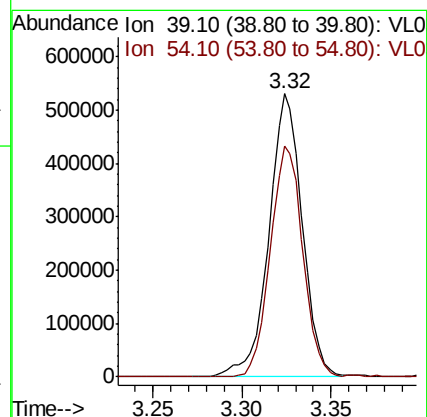
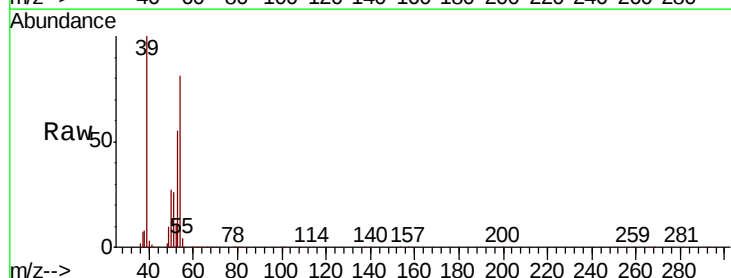
Acq: 16 Oct 2019 21:25

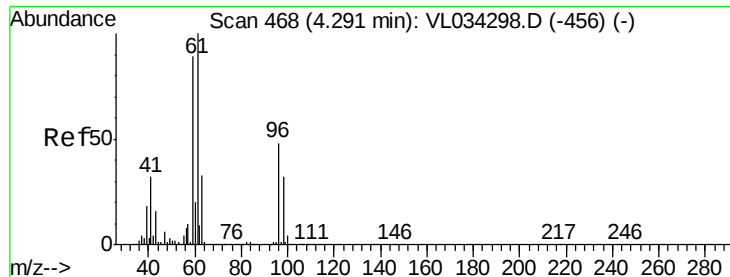
Tgt Ion: 39 Resp: 695317

Ion Ratio Lower Upper

39 100

54 79.8 63.9 95.9



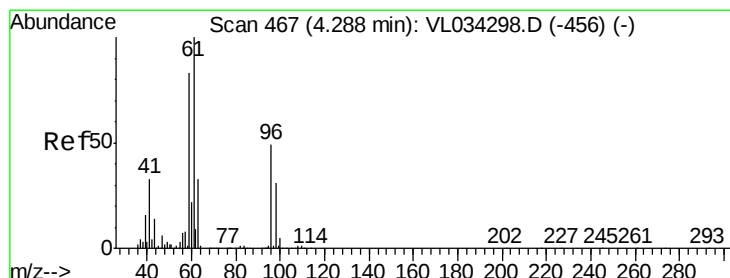
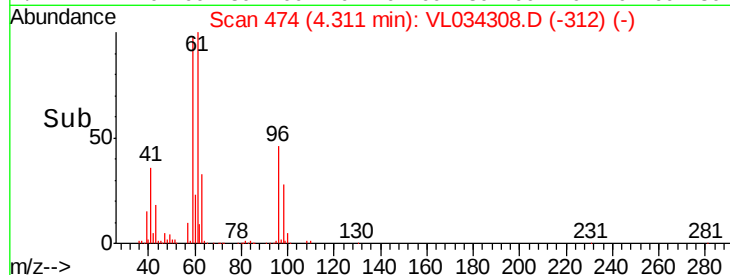
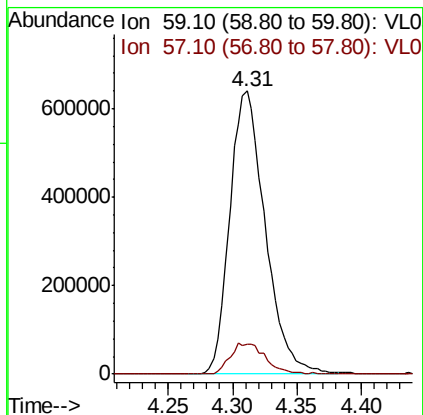
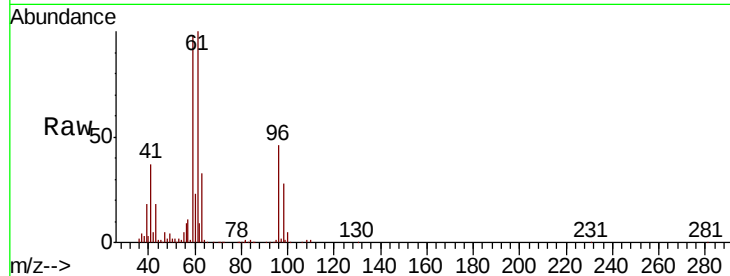


#17

tert-Butyl alcohol
Concen: 11.804 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :

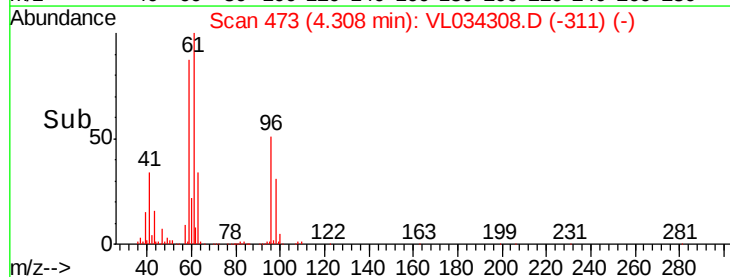
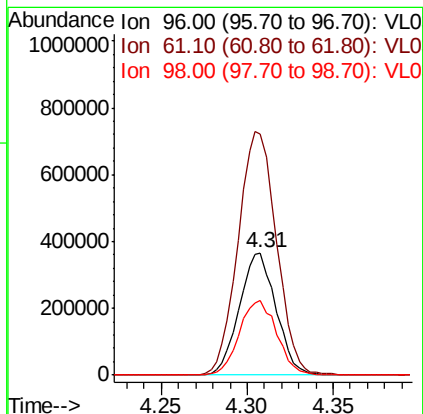
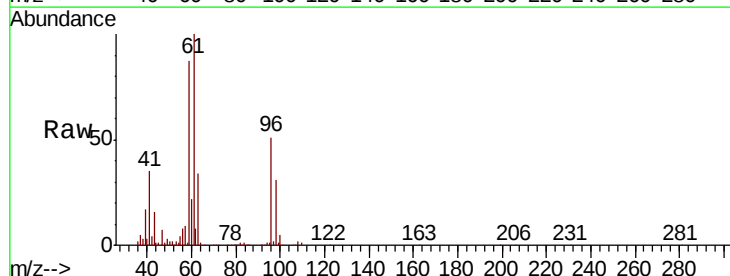
Tot Ion: 59 Resp: 1222234
Ion Ratio Lower Upper
59 100
57 11.2 8.8 13.2

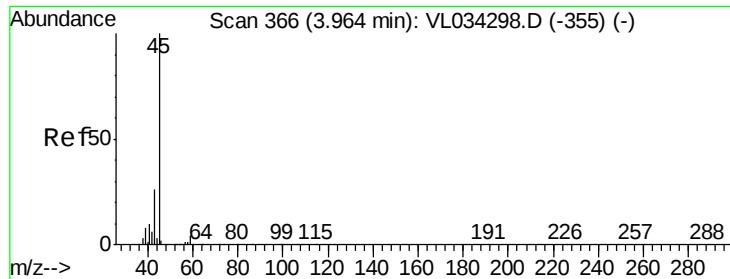


#18

1,1-Dichloroethene
Concen: 10.135 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 96 Resp: 539733
Ion Ratio Lower Upper
96 100
61 197.2 164.5 246.7
98 60.7 51.7 77.5



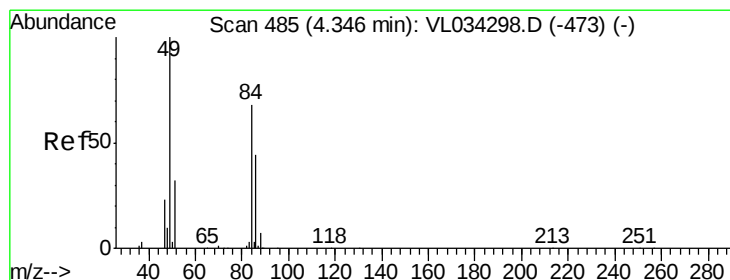
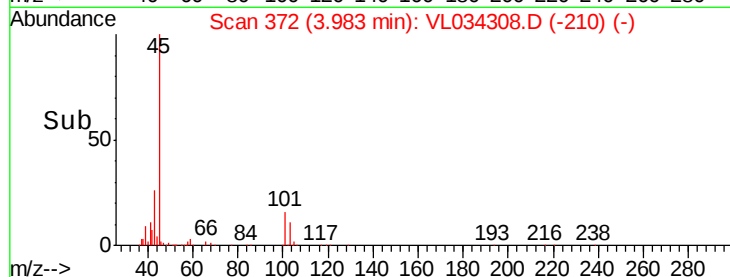
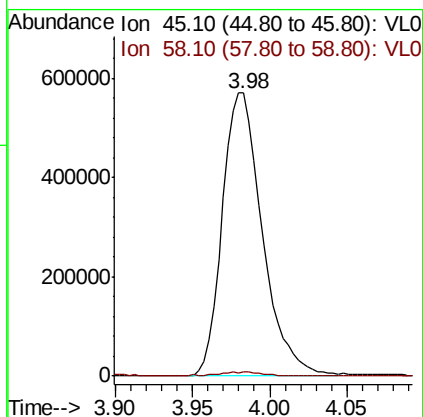
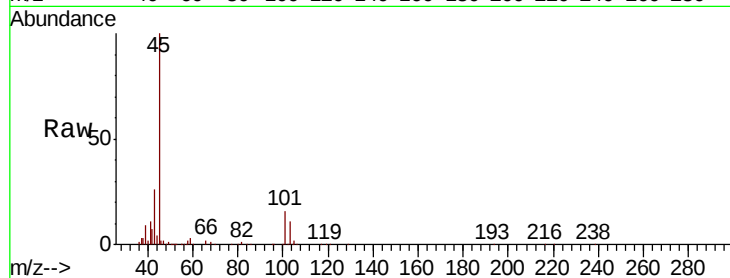


#19

Isopropyl Alcohol
 Concen: 11.214 ppbv
 RT: 3.98 min Scan# 372
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :

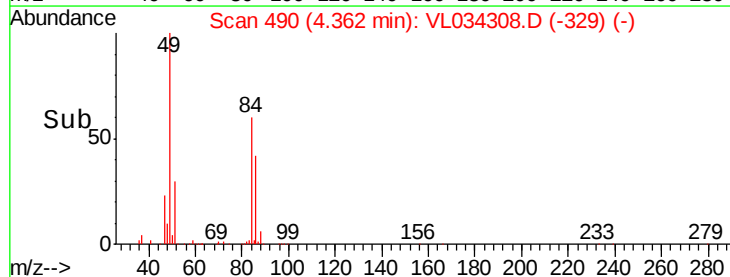
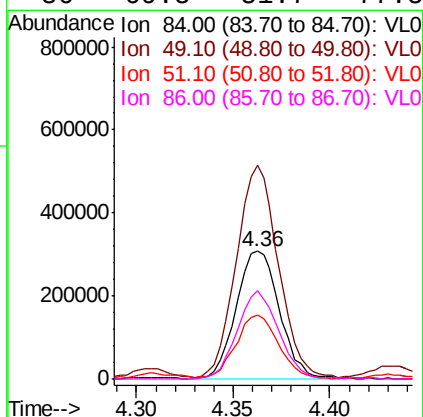
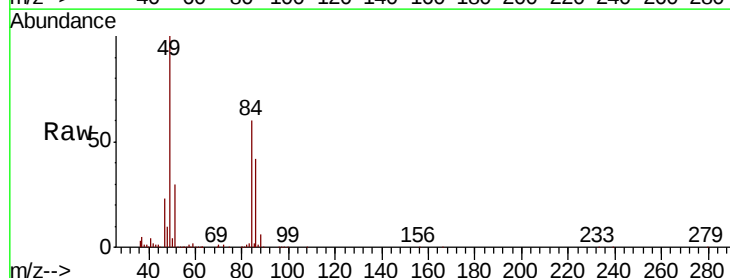
Tot Ion: 45 Resp: 1014921
 Ion Ratio Lower Upper
 45 100
 58 1.7 1.4 2.2

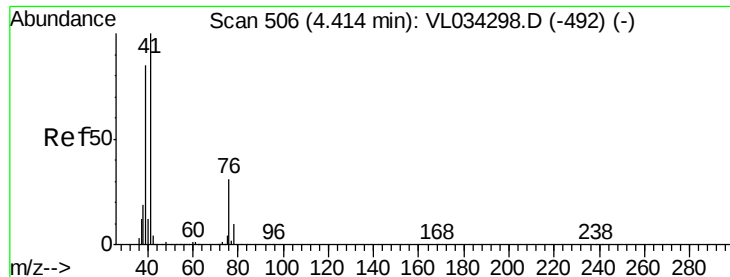


#20

Methylene Chloride
 Concen: 8.106 ppbv
 RT: 4.36 min Scan# 490
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion: 84 Resp: 475440
 Ion Ratio Lower Upper
 84 100
 49 166.0 118.5 177.7
 51 49.9 38.8 58.2
 86 69.5 51.7 77.5

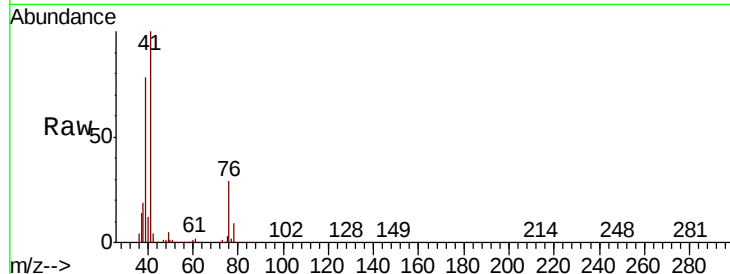




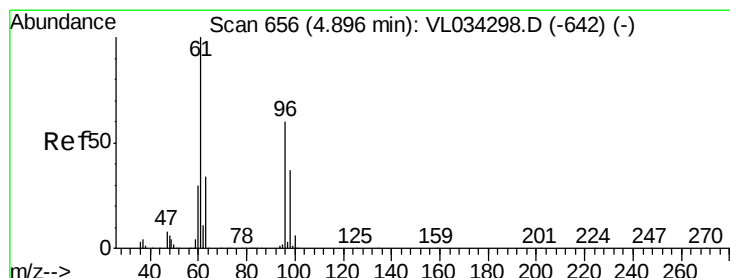
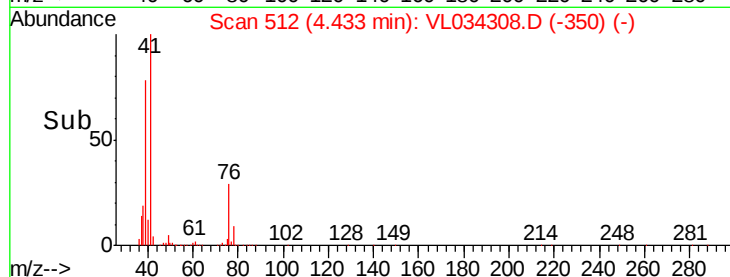
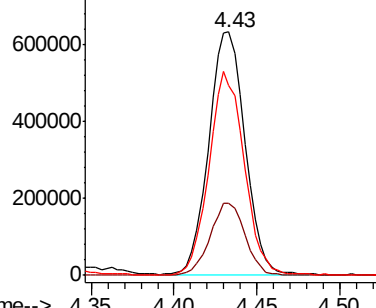
#21
Allvl Chloride
Concen: 10.642 ppbv
RT: 4.43 min Scan# 512
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 954488
Ion Ratio Lower Upper
41 100
76 28.9 22.8 34.2
39 82.0 66.0 99.0

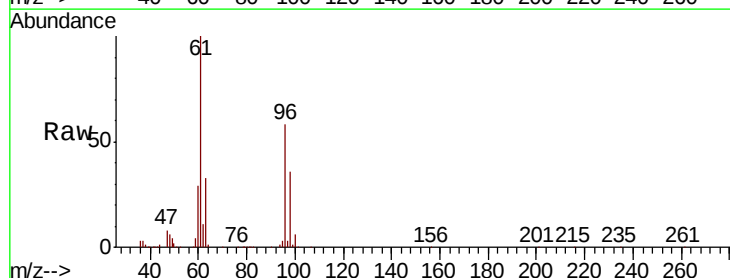


Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

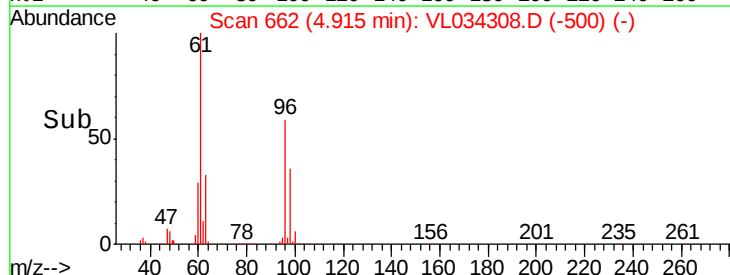
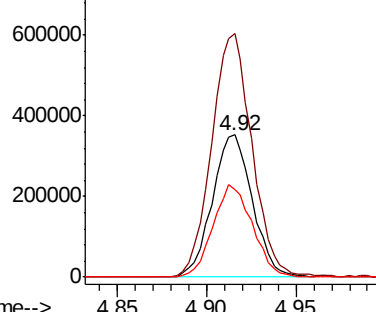


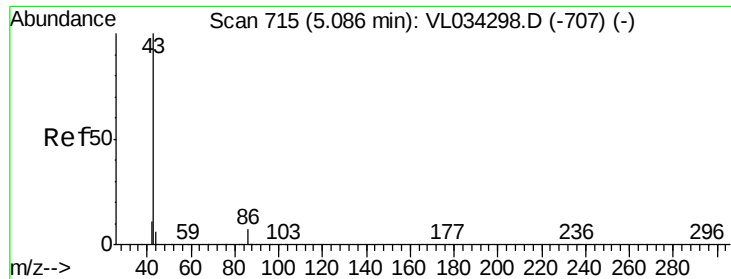
#22
trans-1,2-Dichloroethene
Concen: 10.445 ppbv
RT: 4.92 min Scan# 662
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 96 Resp: 554808
Ion Ratio Lower Upper
96 100
61 170.9 133.8 200.6
98 61.4 49.4 74.0



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



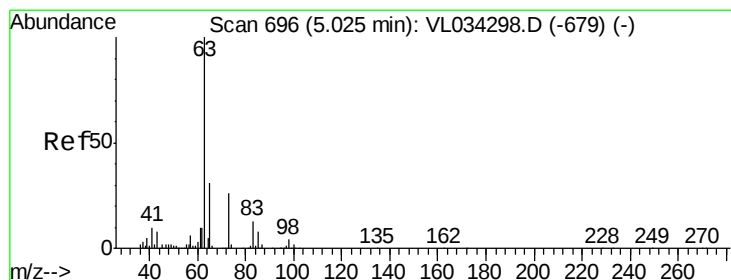
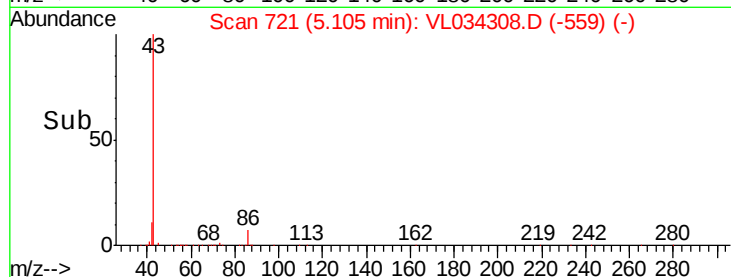
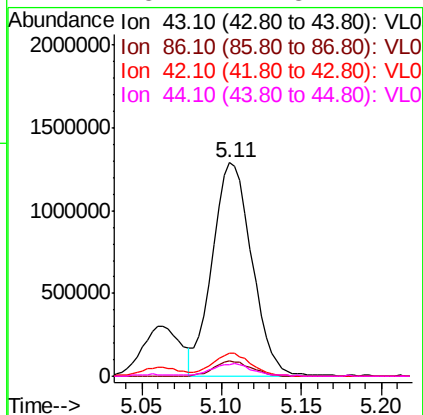
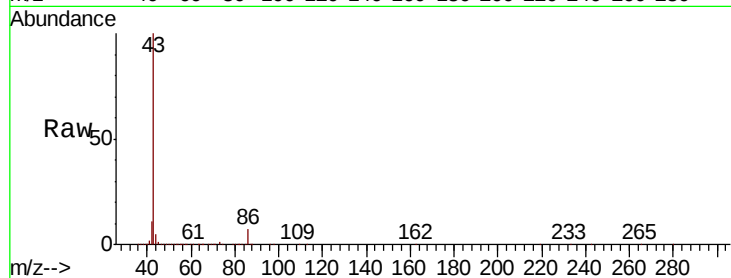


#23
 Vinyl Acetate
 Concen: 10.805 ppbv
 RT: 5.11 min Scan# 721
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 43 Resp: 2189207

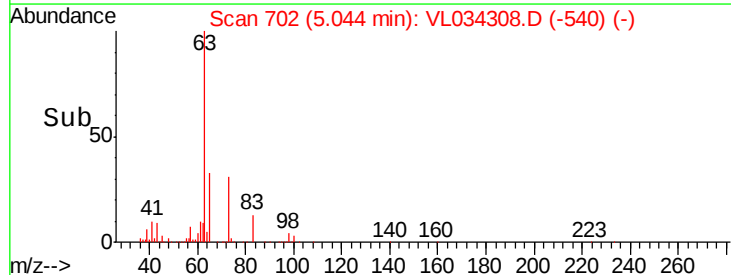
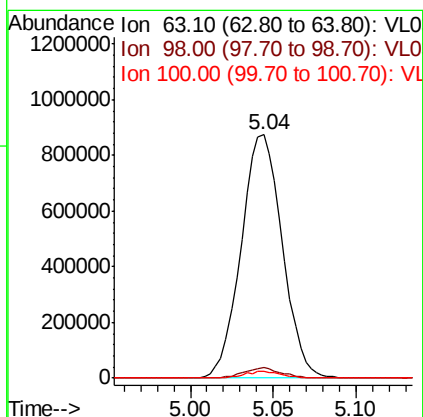
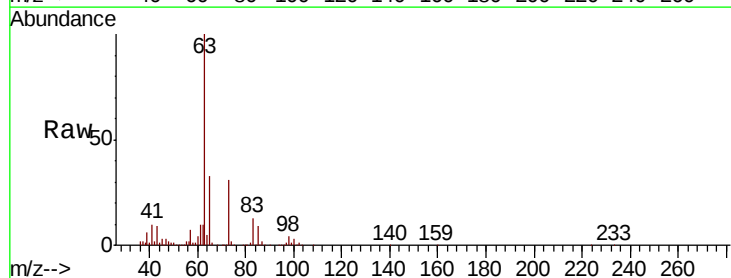
Ion	Ratio	Lower	Upper
43	100		
86	7.0	5.0	7.4
42	10.5	8.6	13.0
44	5.2	4.8	7.2

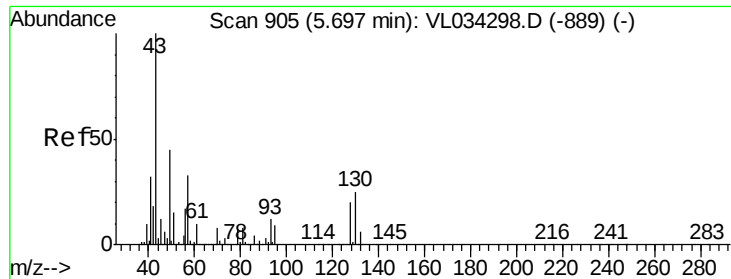


#24
 1,1-Dichloroethane
 Concen: 10.005 ppbv
 RT: 5.04 min Scan# 702
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion: 63 Resp: 1504405

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.0	6.0
100	2.6	1.1	3.5

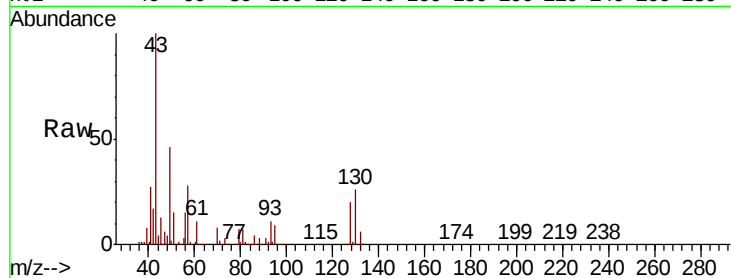




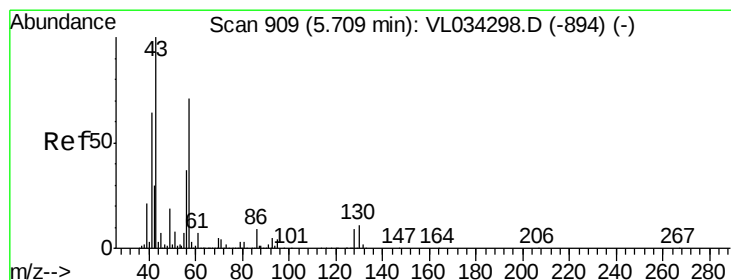
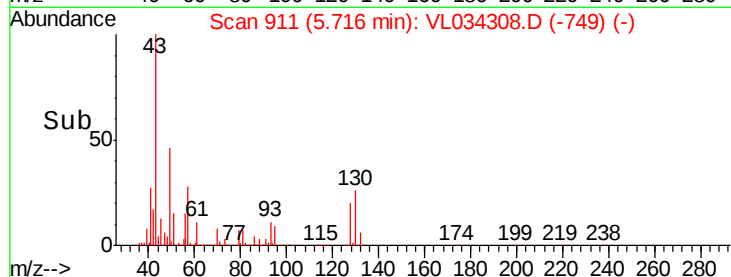
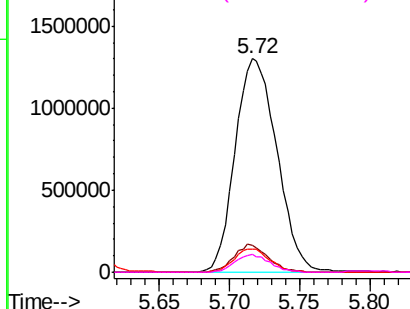
#25
Ethyl Acetate
Concen: 9.833 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	2693251
Ion	Ratio	Lower	Upper
43	100		
45	10.8	8.3	12.5
61	9.6	7.7	11.5
70	7.1	5.4	8.2

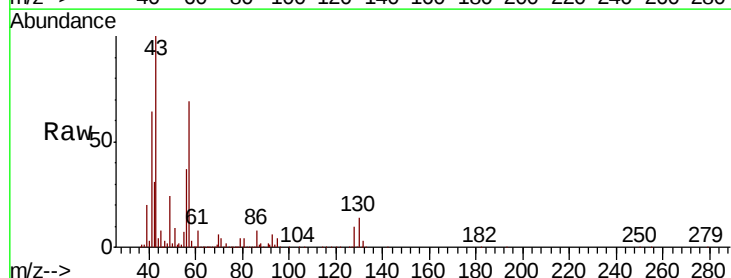


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

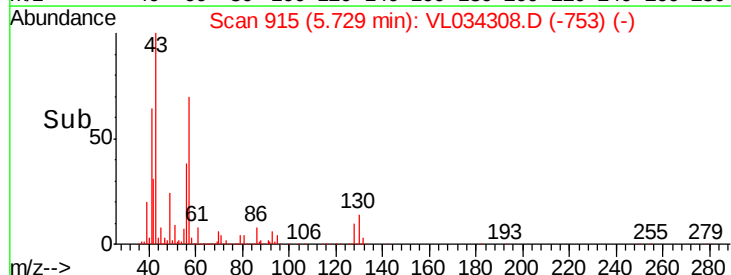
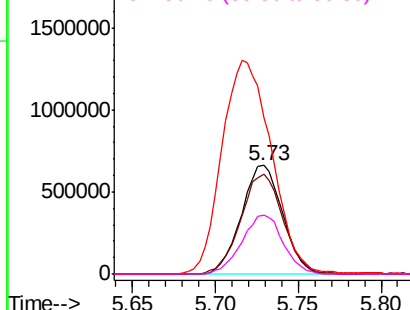


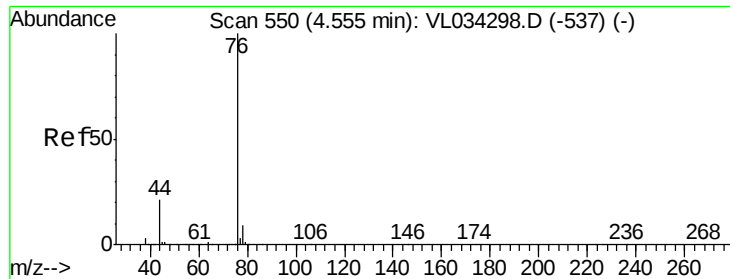
#26
Hexane
Concen: 9.765 ppbv
RT: 5.73 min Scan# 915
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion:	57	Resp:	1140051
Ion	Ratio	Lower	Upper
57	100		
41	95.3	76.5	114.7
43	237.1	188.5	282.7
56	54.4	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

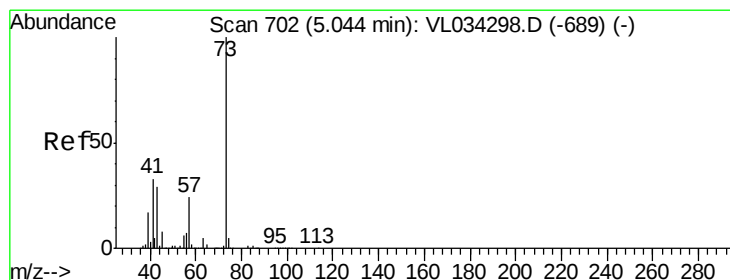
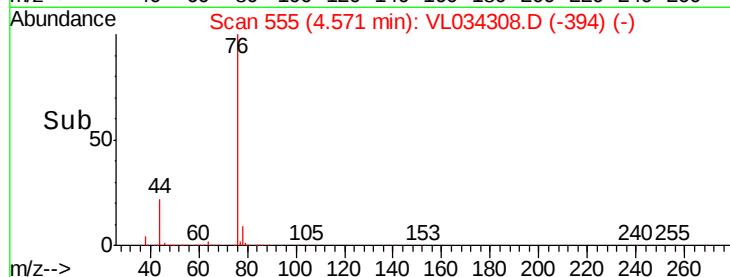
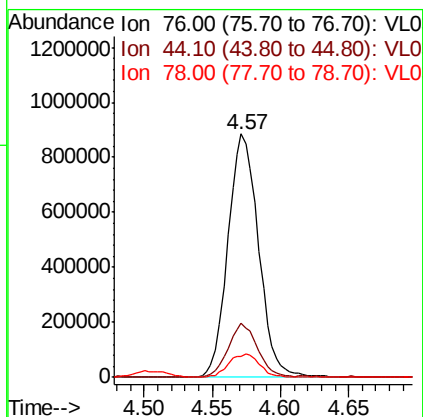
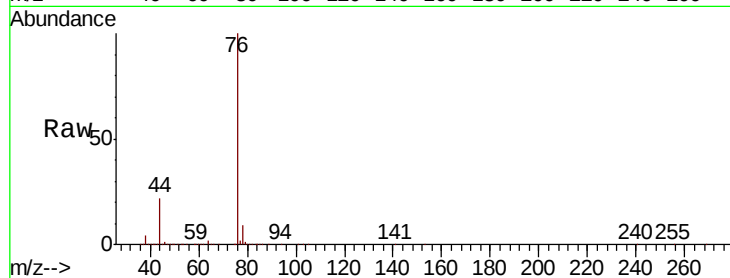




#27
Carbon Disulfide
Concen: 11.405 ppbv
RT: 4.57 min Scan# 555
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

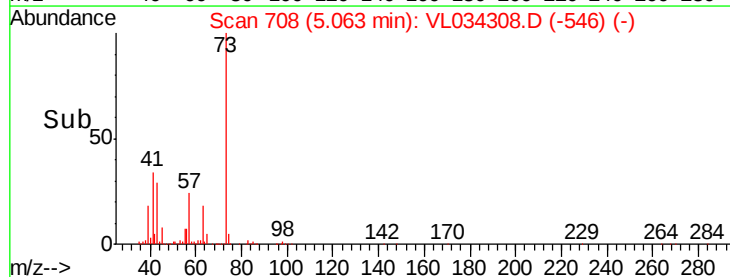
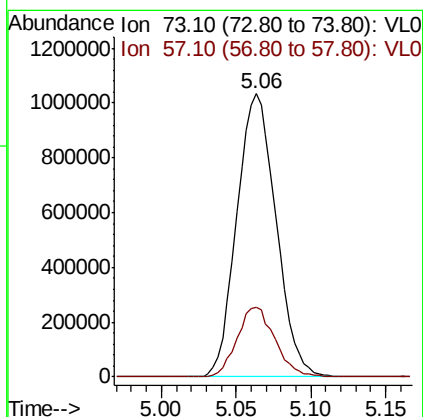
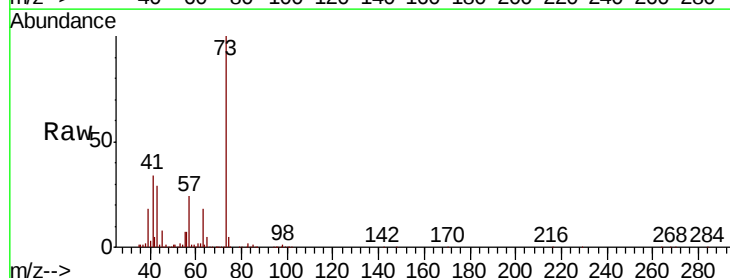
Instrument :
MSVOA_L
ClientSampled :

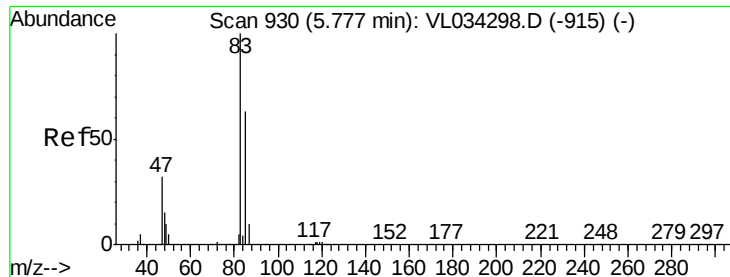
Tot Ion: 76 Resp: 1382319
Ion Ratio Lower Upper
76 100
44 21.4 17.3 25.9
78 9.8 7.8 11.6



#28
Methyl tert-Butyl Ether
Concen: 10.668 ppbv
RT: 5.06 min Scan# 708
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 73 Resp: 1884910
Ion Ratio Lower Upper
73 100
57 23.9 19.2 28.8





#29

Chloroform

Concen: 9.818 ppbv

RT: 5.80 min Scan# 937

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

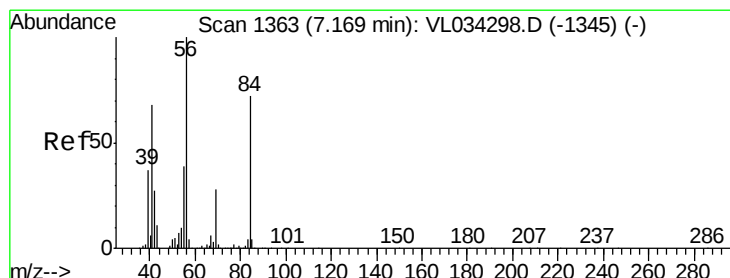
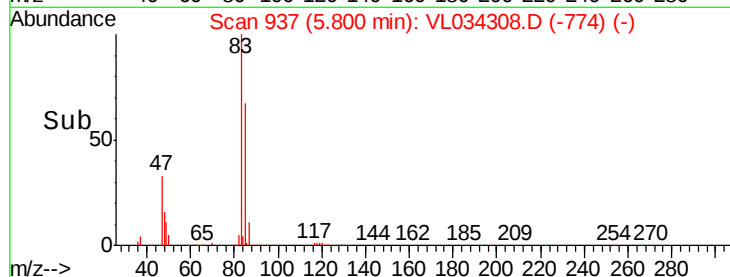
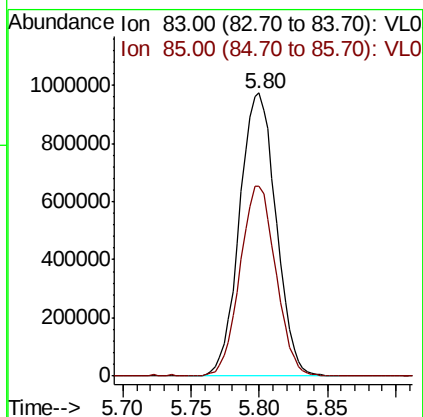
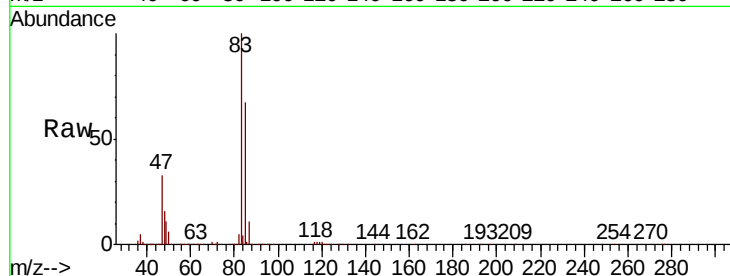
ClientSampleId :

Tot Ion: 83 Resp: 1813042

Ion Ratio Lower Upper

83 100

85 66.9 50.5 75.7



#30

Cyclohexane

Concen: 4.748 ppbv

RT: 7.20 min Scan# 1371

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

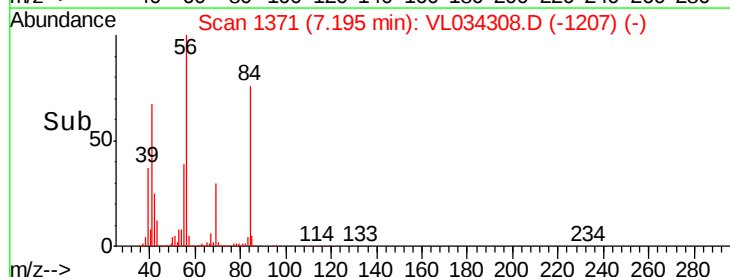
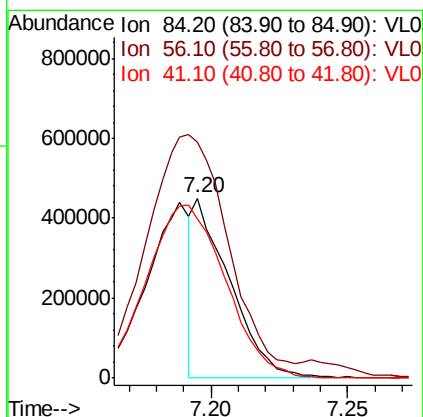
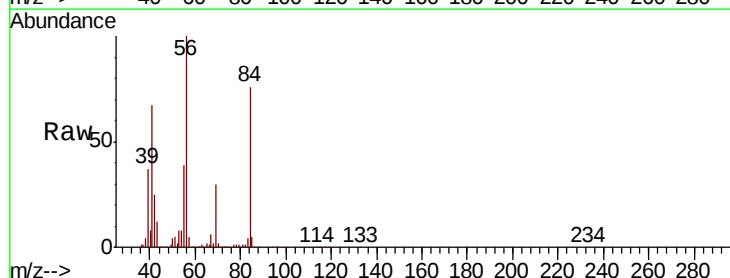
Tgt Ion: 84 Resp: 407667

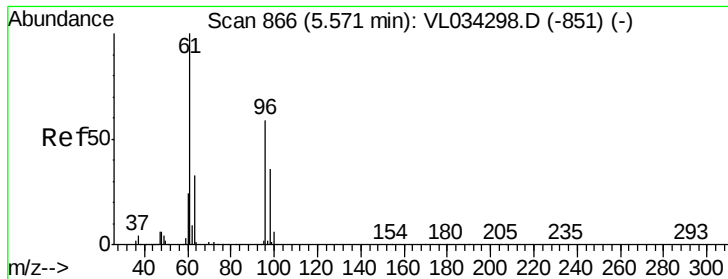
Ion Ratio Lower Upper

84 100

56 328.3 119.4 179.0#

41 217.3 78.7 118.1#



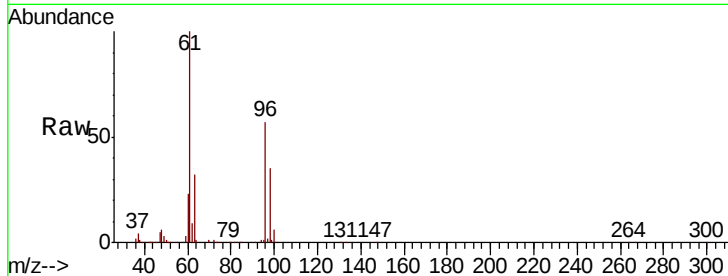


#31

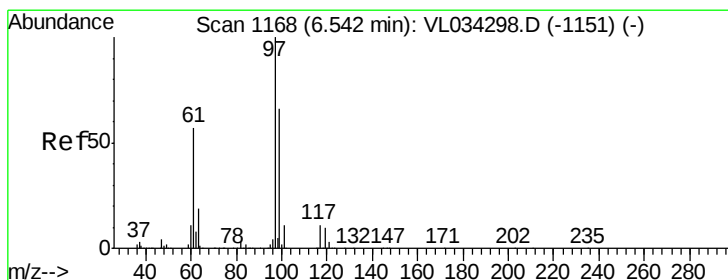
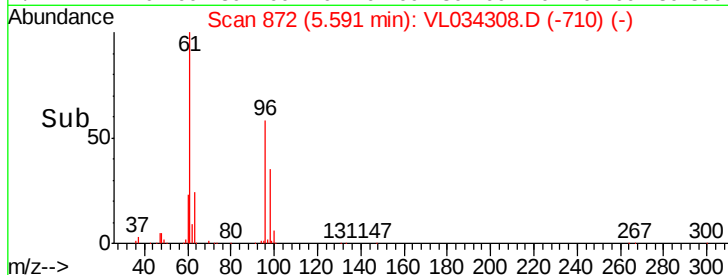
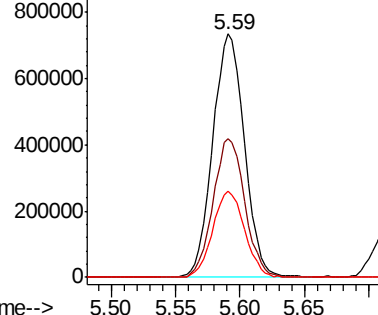
cis-1,2-Dichloroethene
 Concen: 10.618 ppbv
 RT: 5.59 min Scan# 872
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 61 Resp: 1258102
 Ion Ratio Lower Upper
 61 100
 96 57.0 47.5 71.3
 98 35.3 28.8 43.2



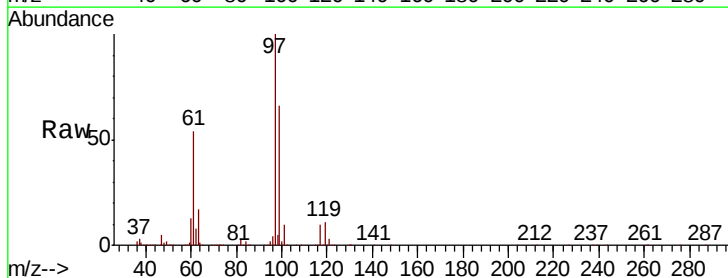
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



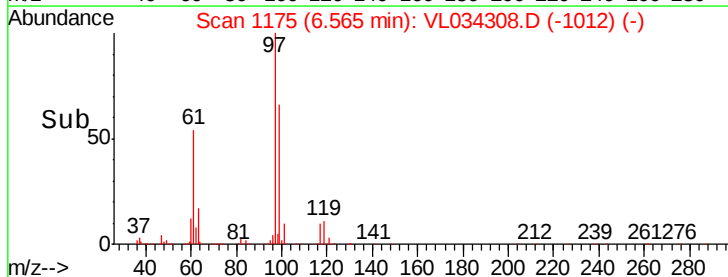
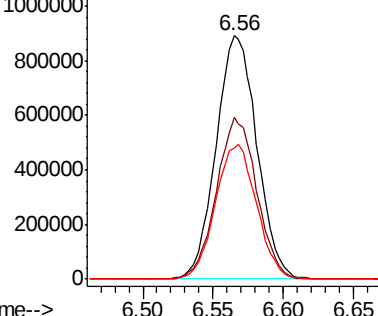
#32

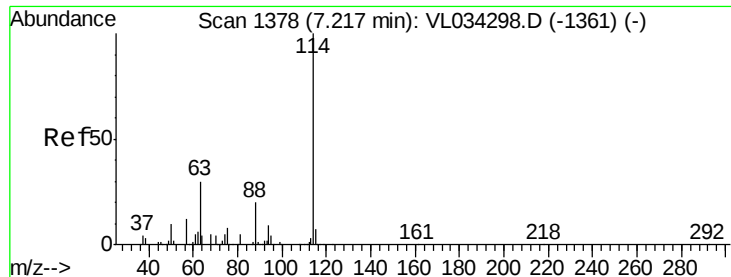
1,1,1-Trichloroethane
 Concen: 10.065 ppbv
 RT: 6.56 min Scan# 1175
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion: 97 Resp: 1807581
 Ion Ratio Lower Upper
 97 100
 99 65.5 52.6 78.8
 61 55.7 44.5 66.7



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

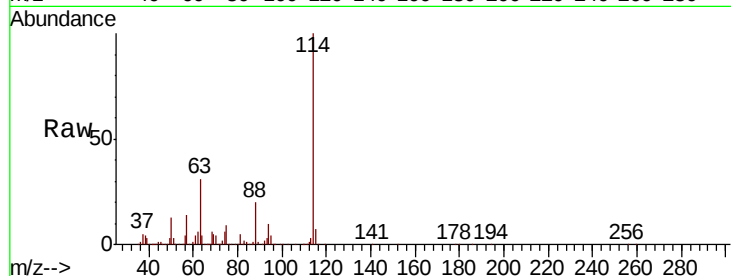




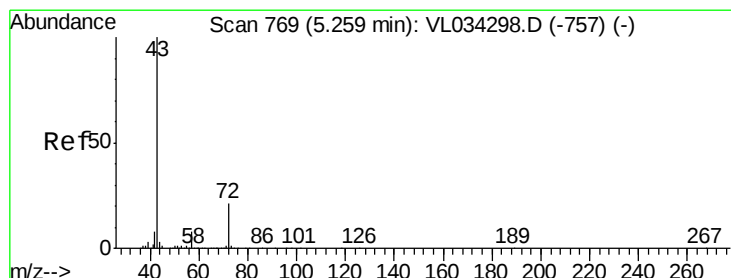
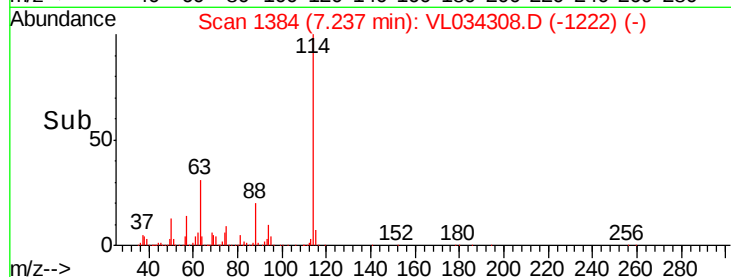
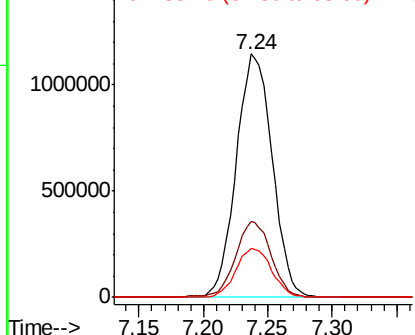
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1384
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2226558
 Ion Ratio Lower Upper
 114 100
 63 30.9 25.2 37.8
 88 20.0 16.0 24.0

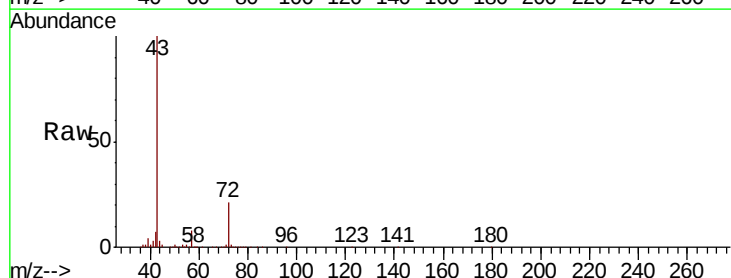


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

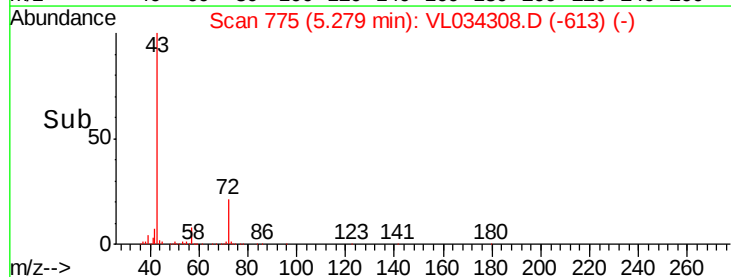
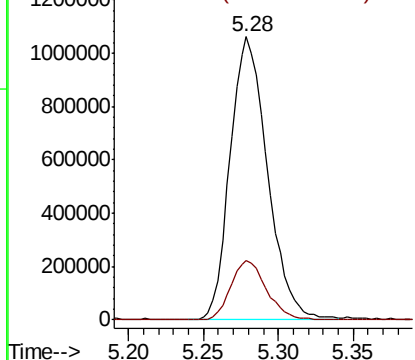


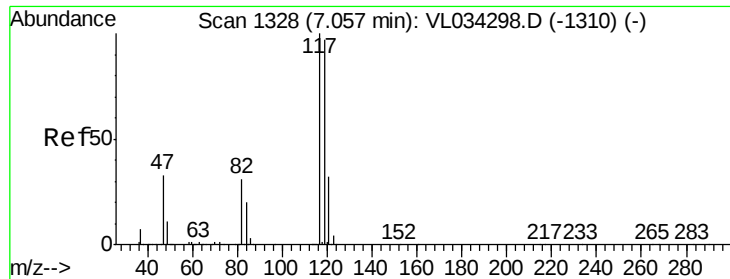
#34
 2-Butanone
 Concen: 10.088 ppbv
 RT: 5.28 min Scan# 775
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion: 43 Resp: 1836037
 Ion Ratio Lower Upper
 43 100
 72 20.4 16.3 24.5



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





#35

Carbon Tetrachloride

Concen: 9.735 ppbv

RT: 7.08 min Scan# 1335

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampled :

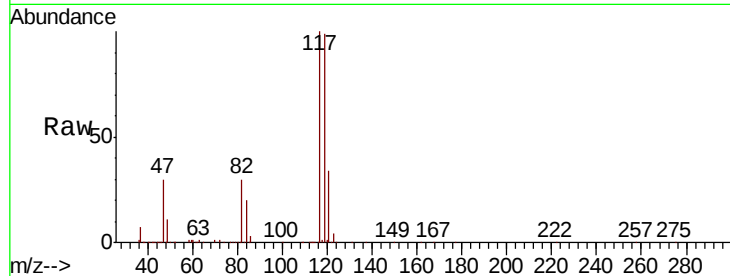
Tot Ion:117 Resp: 1887898

Ion Ratio Lower Upper

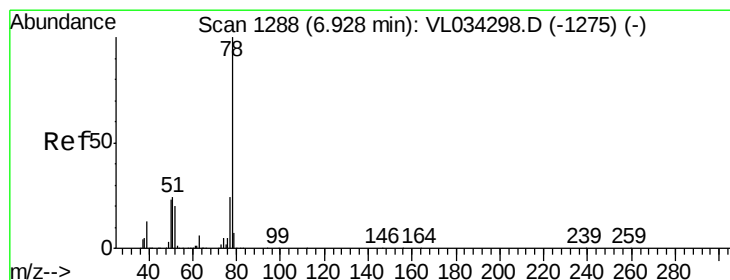
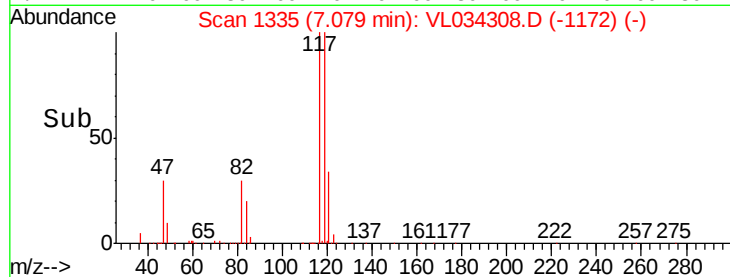
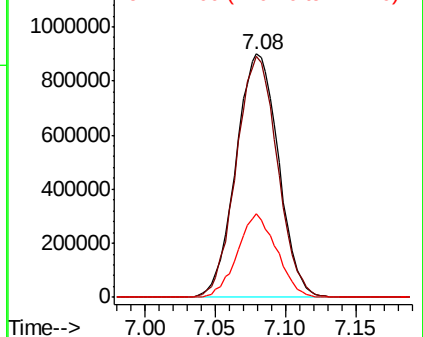
117 100

119 98.9 77.3 115.9

121 34.1 25.5 38.3



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



#36

Benzene

Concen: 10.176 ppbv

RT: 6.95 min Scan# 1295

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

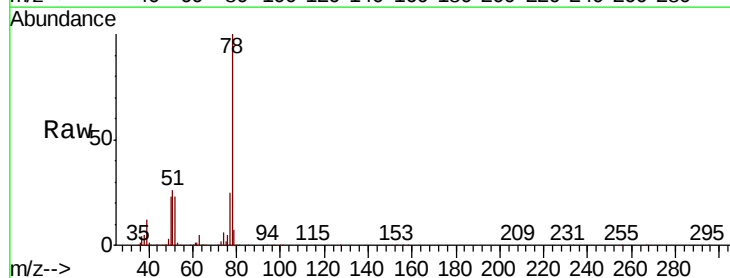
Tgt Ion: 78 Resp: 2173976

Ion Ratio Lower Upper

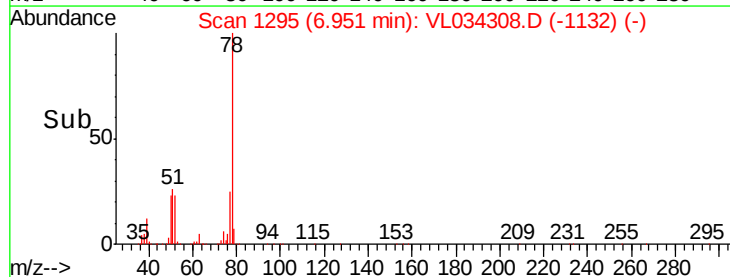
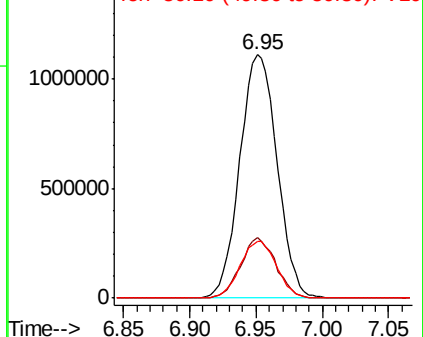
78 100

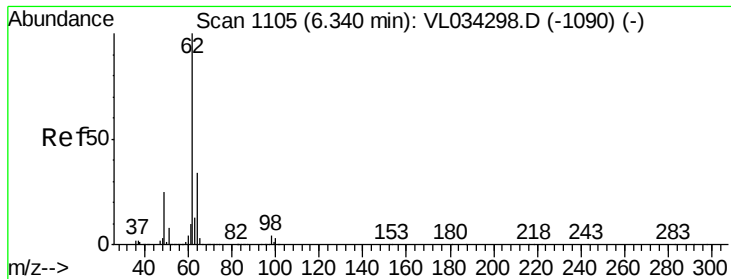
77 24.7 19.0 28.4

50 23.4 18.6 27.8



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.024 ppbv

RT: 6.36 min Scan# 1111

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

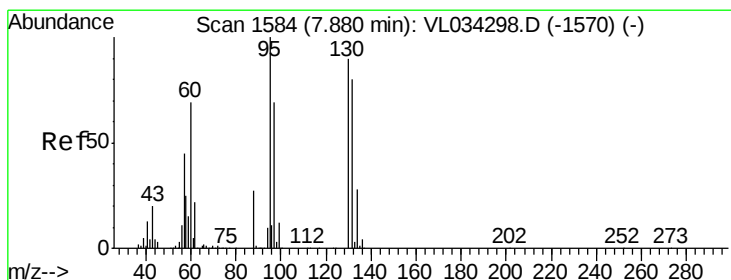
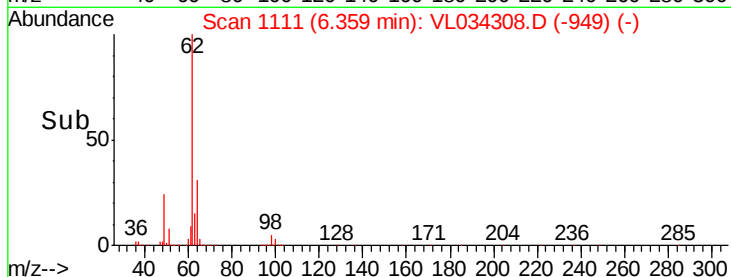
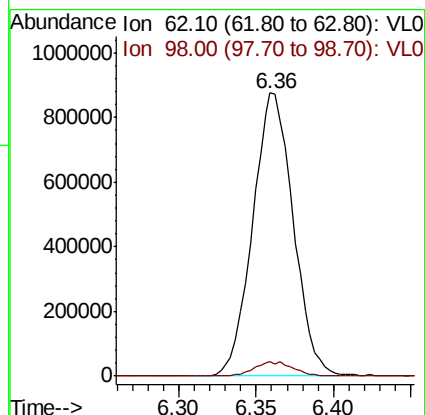
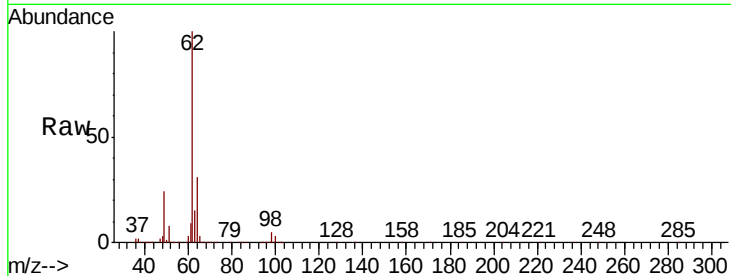
ClientSampleId :

Tot Ion: 62 Resp: 1595942

Ion Ratio Lower Upper

62 100

98 4.9 3.8 5.6



#38

Trichloroethene

Concen: 9.602 ppbv

RT: 7.91 min Scan# 1592

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Tgt Ion:130 Resp: 823120

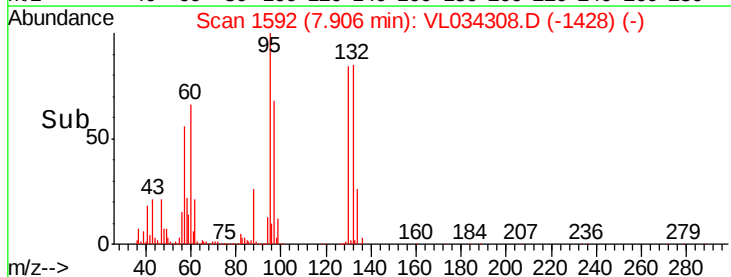
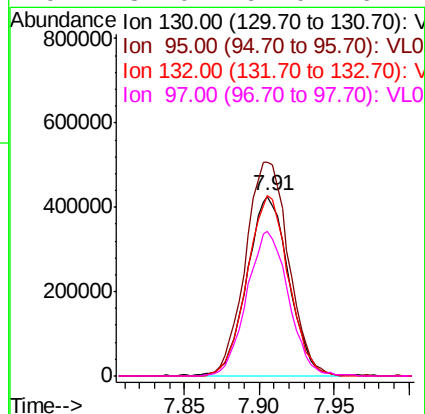
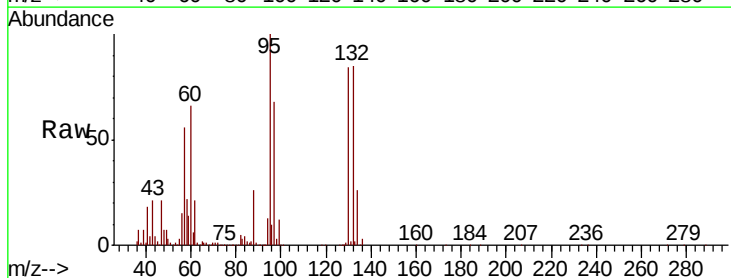
Ion Ratio Lower Upper

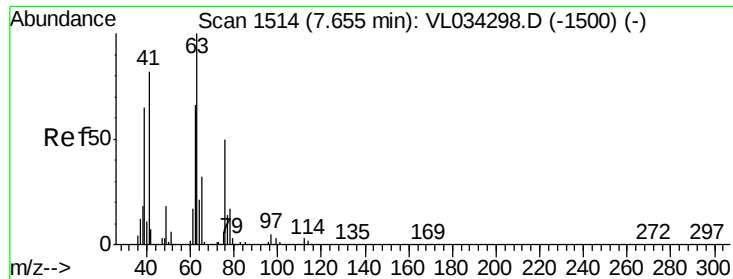
130 100

95 118.8 88.6 132.8

132 100.6 71.2 106.8

97 81.0 61.0 91.4

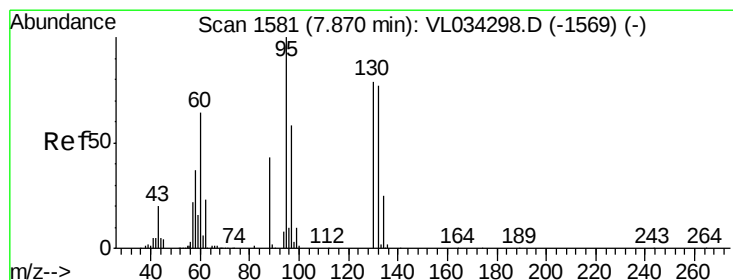
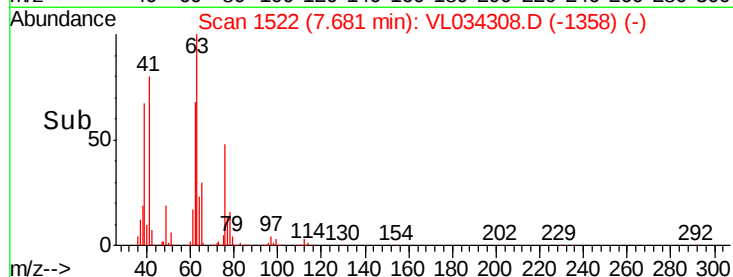
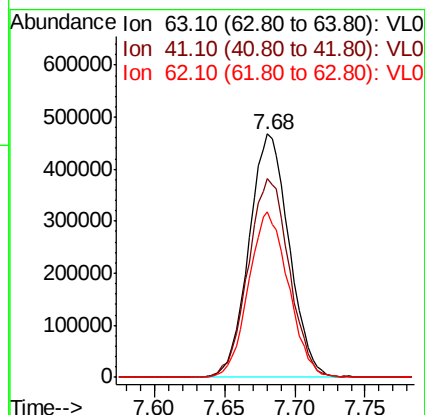
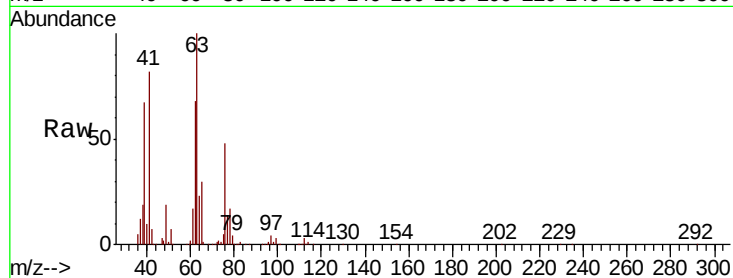




#39
 1,2-Dichloropropane
 Concen: 10.104 ppbv
 RT: 7.68 min Scan# 1522
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

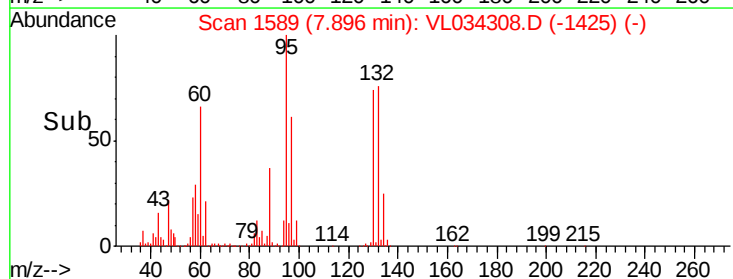
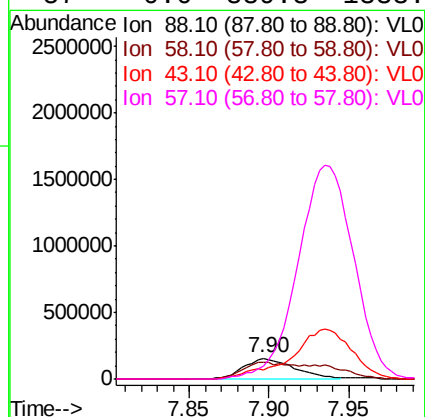
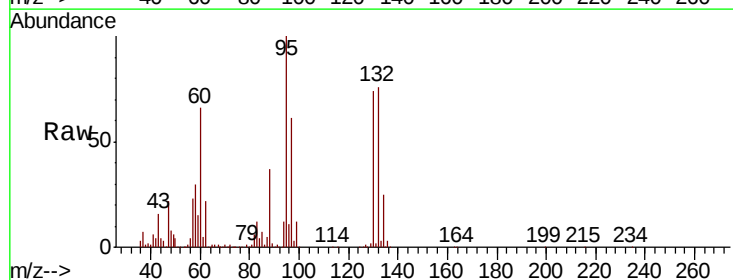
Instrument :
 MSVOA_L
 ClientSampleId :

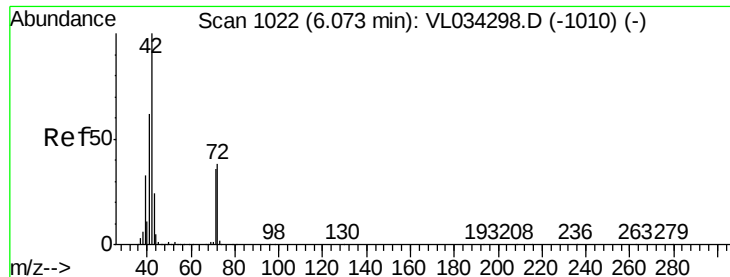
Tot Ion	Ratio	Lower	Upper
63	100		
41	81.4	65.6	98.4
62	67.8	53.0	79.6



#40
 1,4-Dioxane
 Concen: 10.462 ppbv
 RT: 7.90 min Scan# 1589
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
88	100		
58	139.9	110.3	165.5
43	0.0	228.1	342.1#
57	0.0	889.3	1333.9#





#41

Tetrahydrofuran

Concen: 10.558 ppbv

RT: 6.10 min Scan# 1029

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

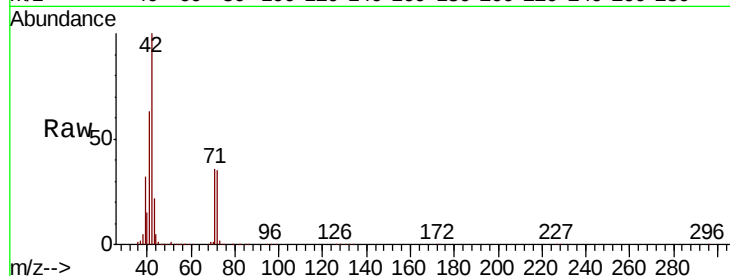
Tot Ion: 42 Resp: 1066428

Ion Ratio Lower Upper

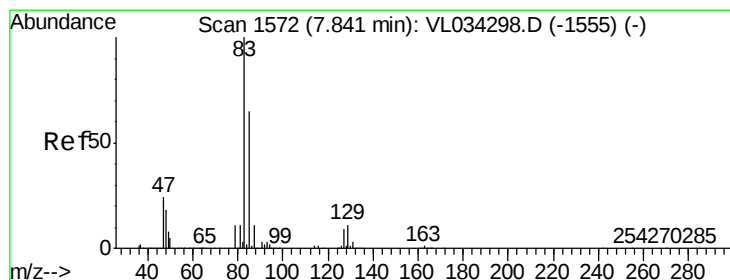
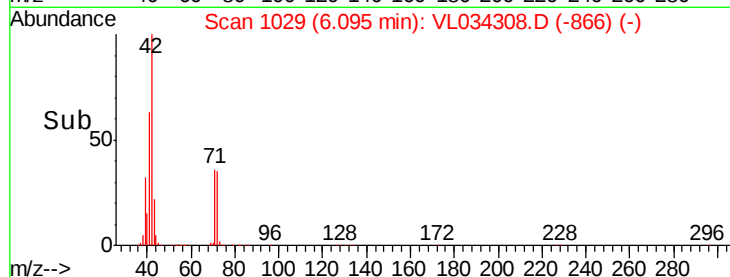
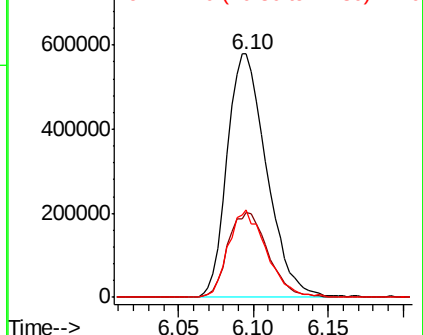
42 100

72 35.6 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: 10.265 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

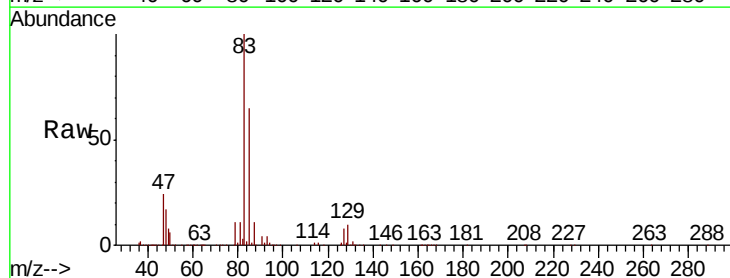
Tgt Ion: 83 Resp: 2001832

Ion Ratio Lower Upper

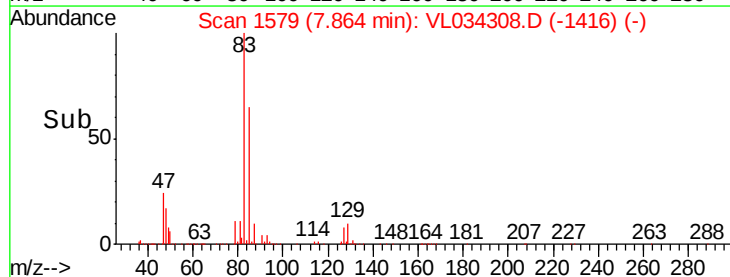
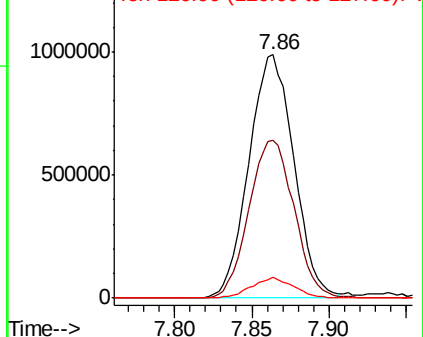
83 100

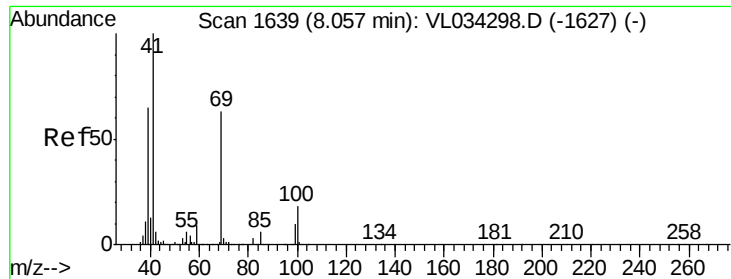
85 65.0 51.8 77.6

127 8.3 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

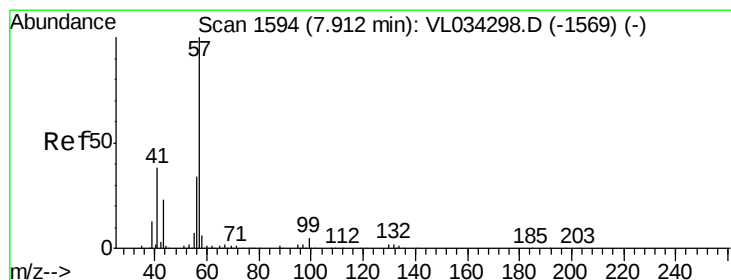
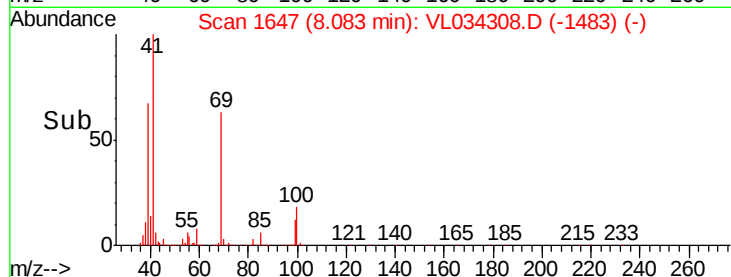
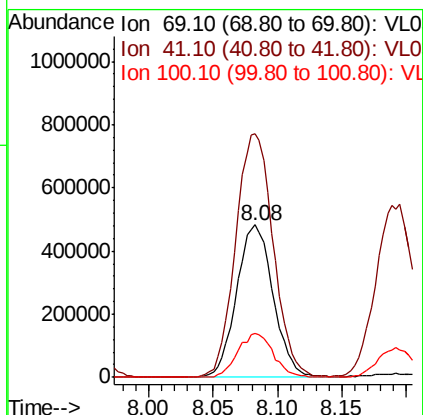
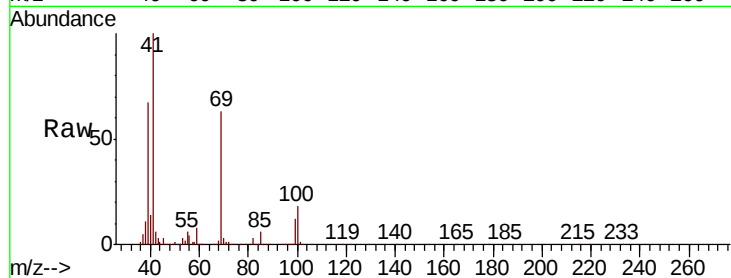




#43
Methvl Methacrilate
Concen: 10.813 ppbv
RT: 8.08 min Scan# 1647
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

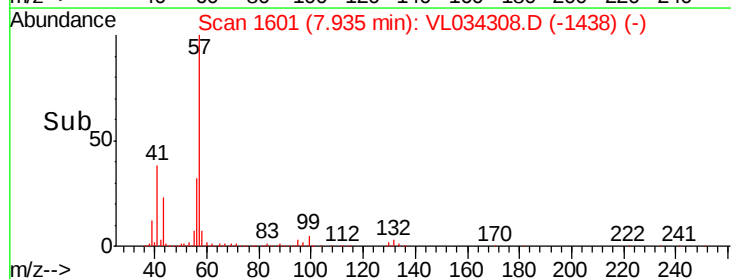
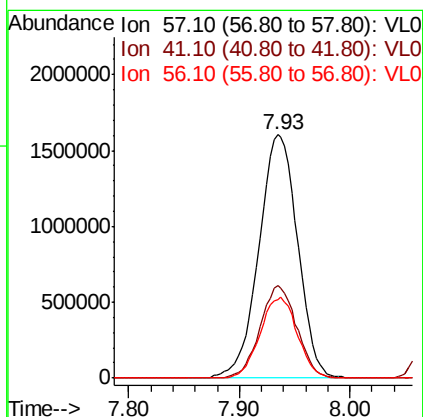
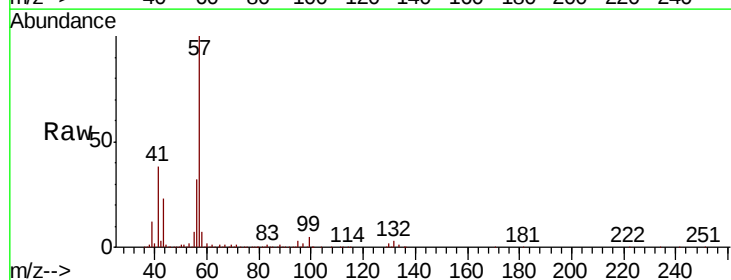
Instrument :
MSVOA_L
ClientSampled :

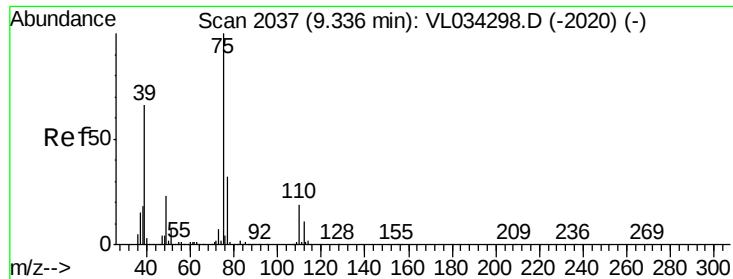
Tot Ion: 69 Resp: 955353
Ion Ratio Lower Upper
69 100
41 163.6 132.1 198.1
100 28.2 23.2 34.8



#44
2,2,4-Trimethylpentane
Concen: 9.896 ppbv
RT: 7.93 min Scan# 1601
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 57 Resp: 3913059
Ion Ratio Lower Upper
57 100
41 35.9 29.3 43.9
56 32.0 25.3 37.9

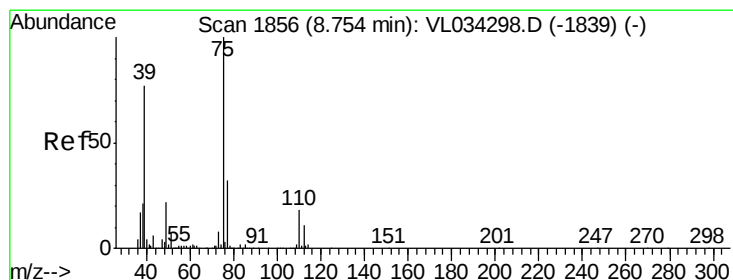
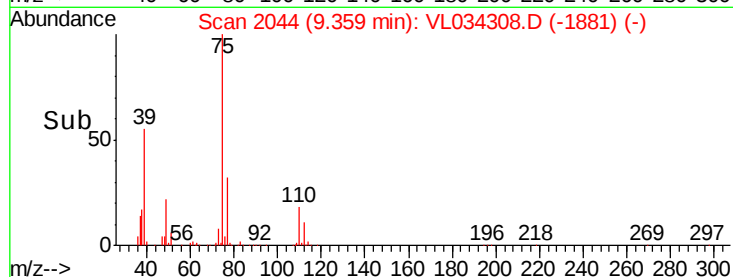
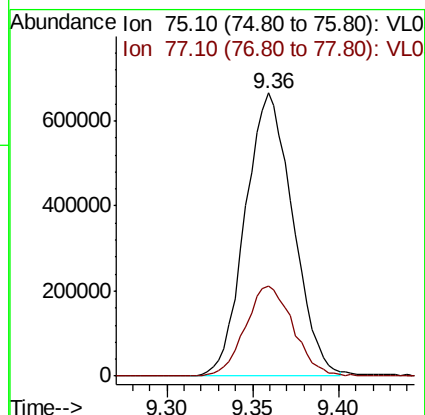
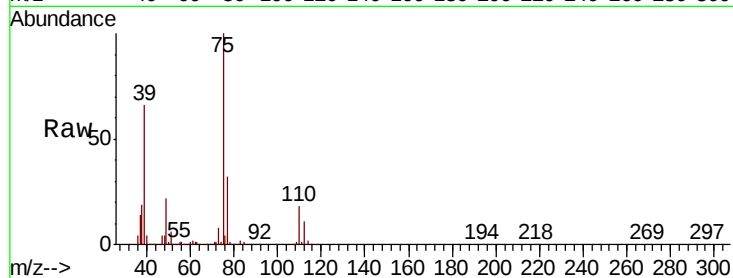




#45
 t-1,3-Dichloropropene
 Concen: 11.847 ppbv
 RT: 9.36 min Scan# 2044
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

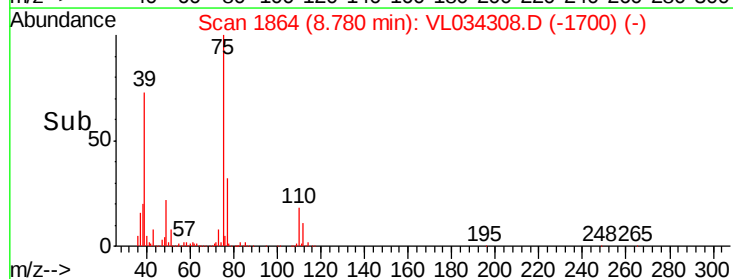
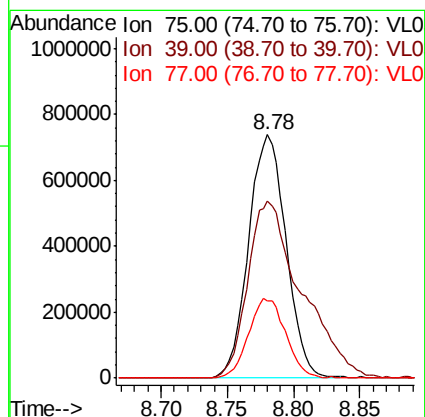
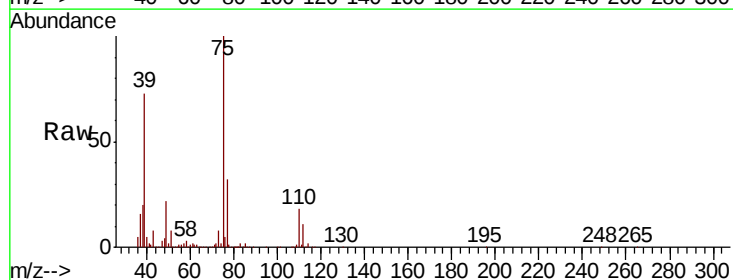
Instrument :
 MSVOA_L
 ClientSampleId :

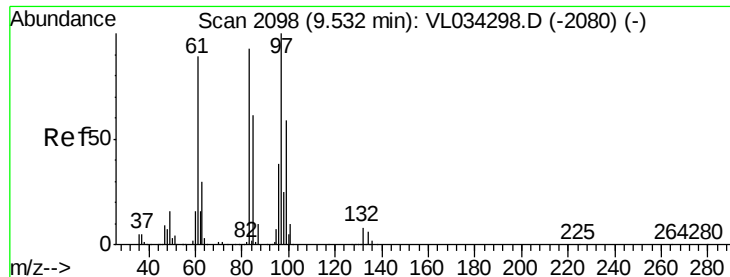
Tot Ion: 75 Resp: 1275376
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.6 38.4



#46
 cis-1,3-Dichloropropene
 Concen: 11.719 ppbv
 RT: 8.78 min Scan# 1864
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion: 75 Resp: 1449348
 Ion Ratio Lower Upper
 75 100
 39 72.7 61.2 91.8
 77 31.6 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 9.848 ppbv

RT: 9.56 min Scan# 2106

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 917571

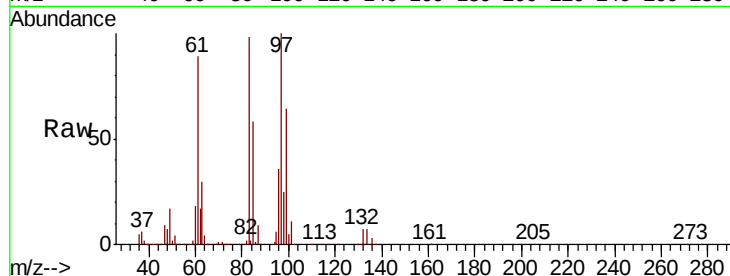
Ion Ratio Lower Upper

97 100

83 97.7 74.2 111.2

85 58.2 48.6 73.0

99 63.6 47.0 70.6

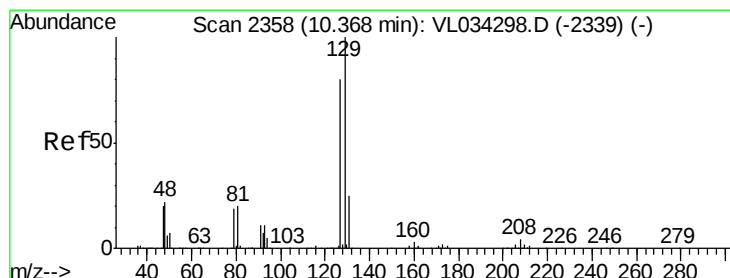
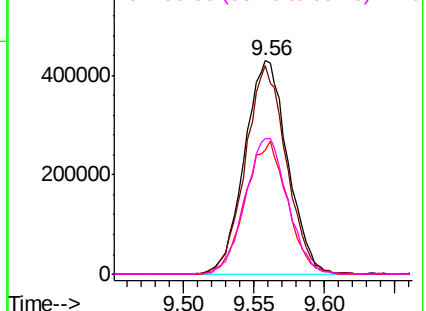
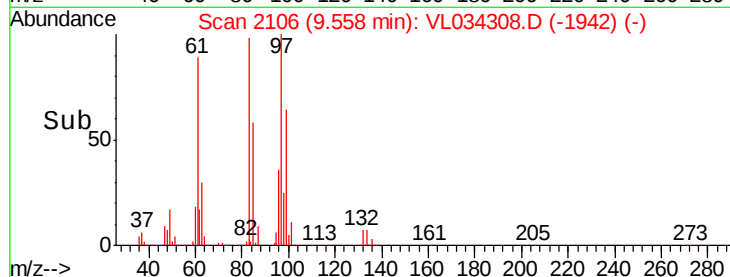


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.812 ppbv

RT: 10.39 min Scan# 2366

Delta R.T. 0.03 min

Lab File: VL034308.D

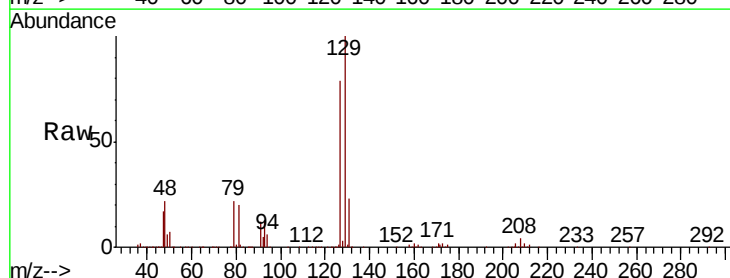
Acq: 16 Oct 2019 21:25

Tgt Ion: 129 Resp: 1652506

Ion Ratio Lower Upper

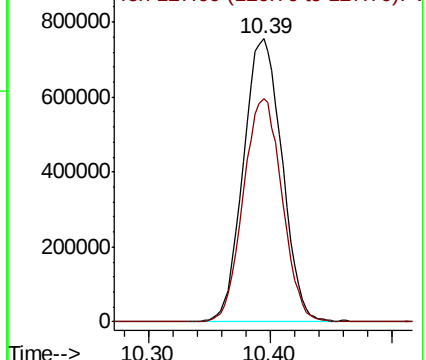
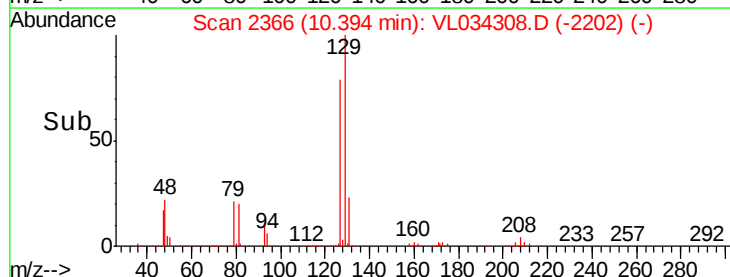
129 100

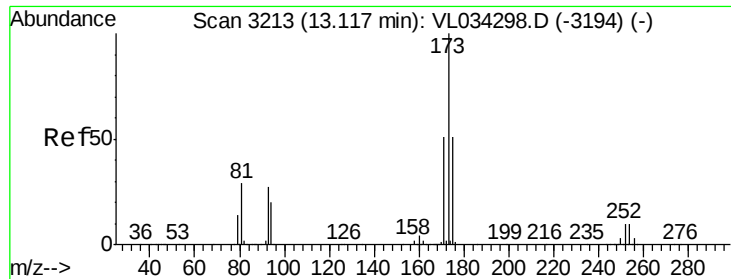
127 79.1 39.7 119.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.249 ppbv

RT: 13.15 min Scan# 3222

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampled :

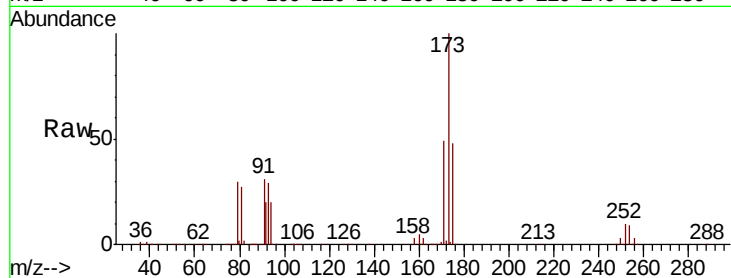
Tot Ion:173 Resp: 1523601

Ion Ratio Lower Upper

173 100

175 49.7 39.8 59.6

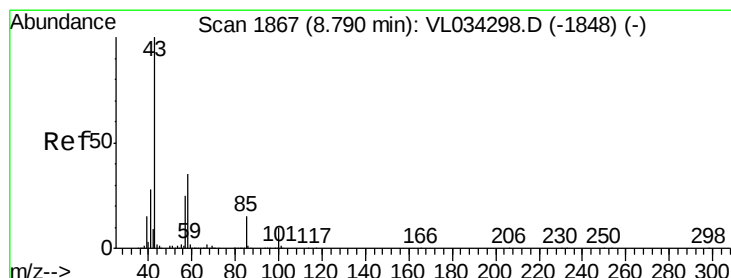
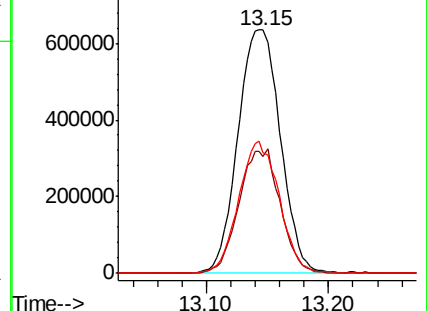
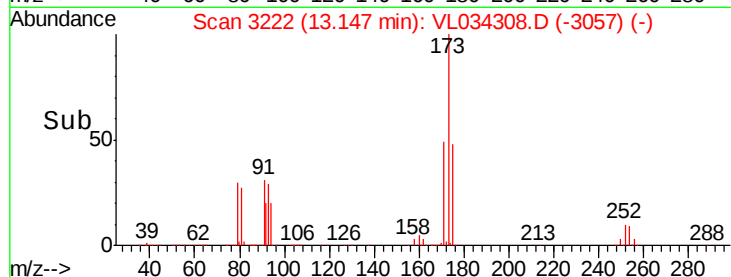
171 52.2 41.8 62.6



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: 10.422 ppbv

RT: 8.81 min Scan# 1874

Delta R.T. 0.02 min

Lab File: VL034308.D

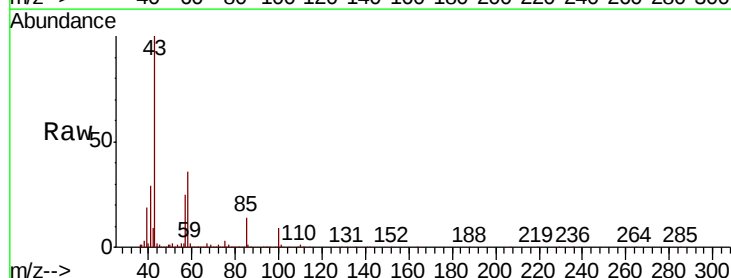
Acq: 16 Oct 2019 21:25

Tgt Ion: 43 Resp: 2715266

Ion Ratio Lower Upper

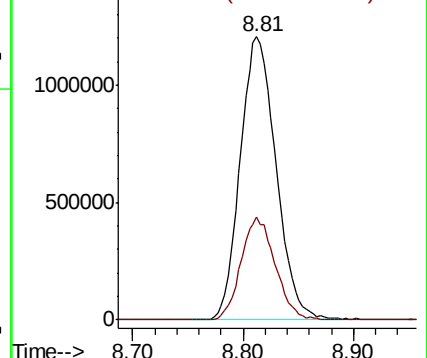
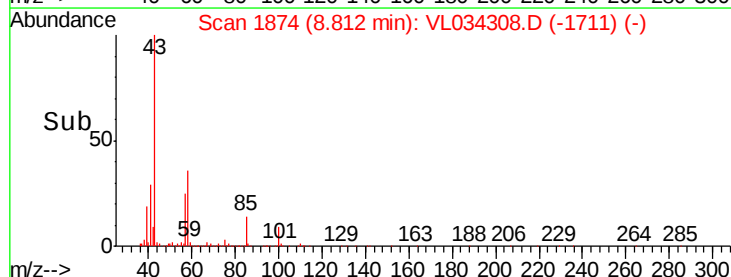
43 100

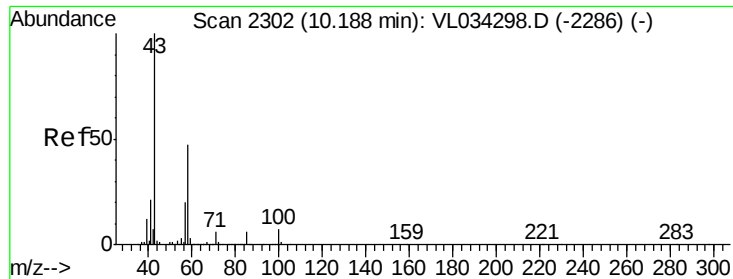
58 34.7 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

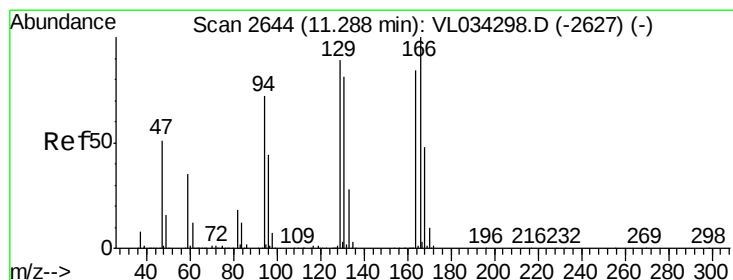
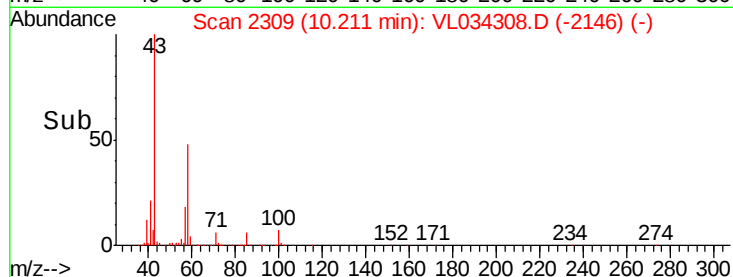
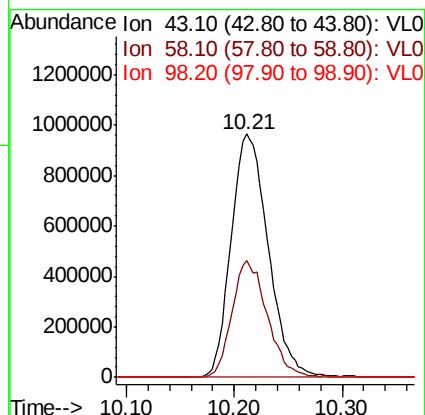
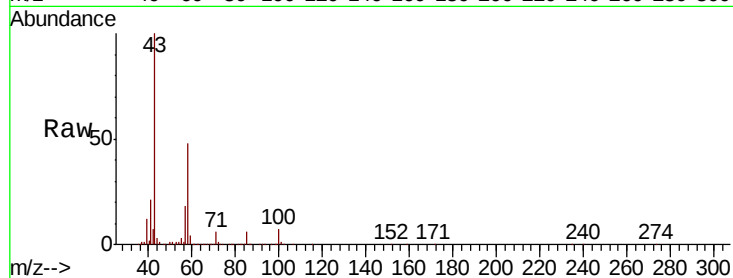




#51
2-Hexanone
Concen: 10.828 ppbv
RT: 10.21 min Scan# 2309
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

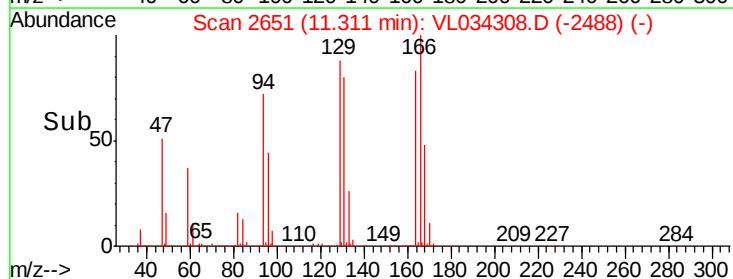
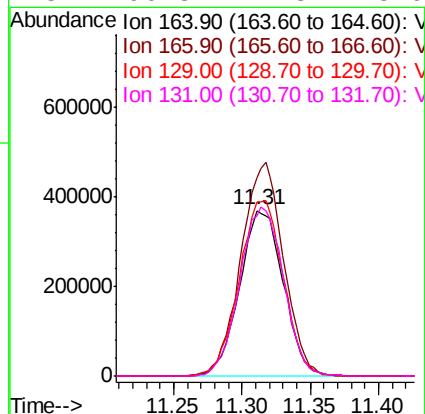
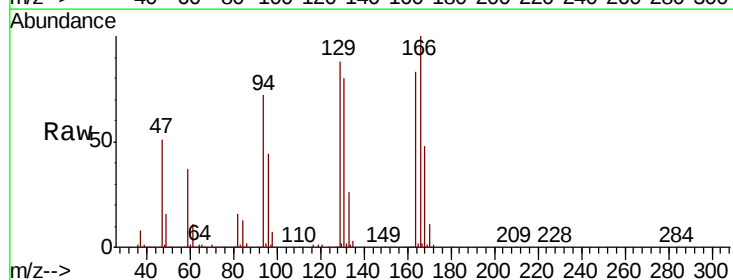
Instrument :
MSVOA_L
ClientSampleId :

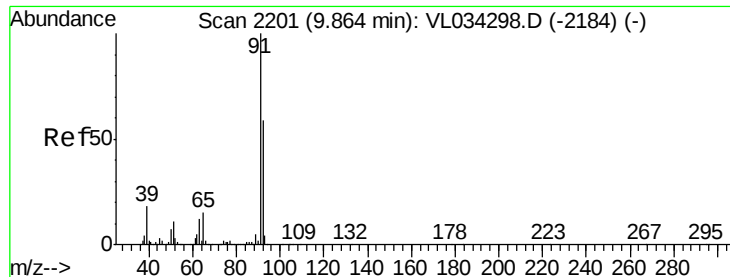
Tot Ion: 43 Resp: 2312670
Ion Ratio Lower Upper
43 100
58 45.7 37.0 55.6
98 0.3 0.2 0.2#



#52
Tetrachloroethene
Concen: 9.738 ppbv
RT: 11.31 min Scan# 2651
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion:164 Resp: 815464
Ion Ratio Lower Upper
164 100
166 120.5 95.3 142.9
129 105.4 84.5 126.7
131 96.3 77.3 115.9





#53

Toluene

Concen: 10.582 ppbv

RT: 9.89 min Scan# 2208

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

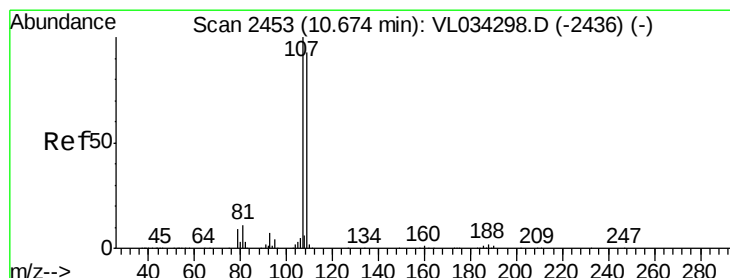
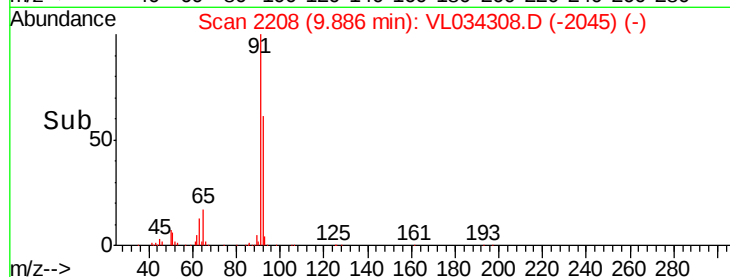
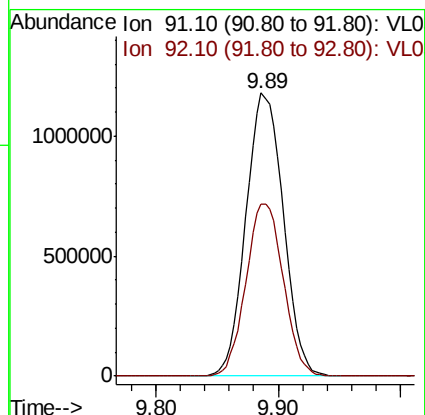
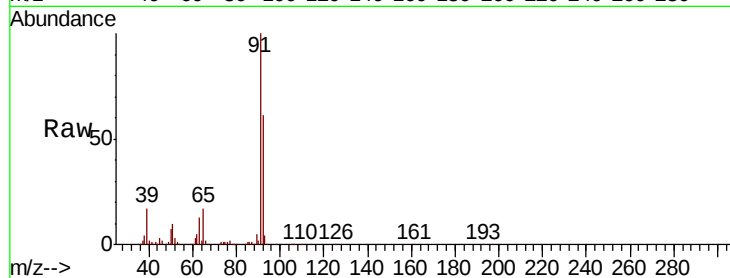
ClientSampleId :

Tot Ion: 91 Resp: 2494730

Ion Ratio Lower Upper

91 100

92 60.8 48.4 72.6



#54

1,2-Dibromoethane

Concen: 10.182 ppbv

RT: 10.70 min Scan# 2462

Delta R.T. 0.03 min

Lab File: VL034308.D

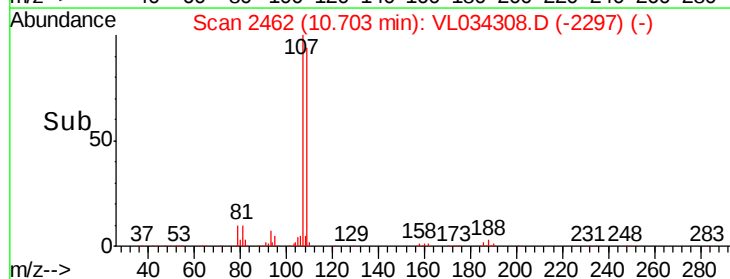
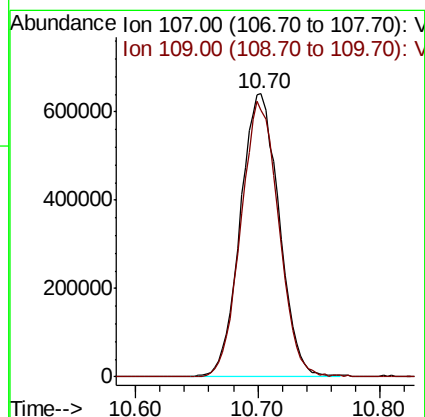
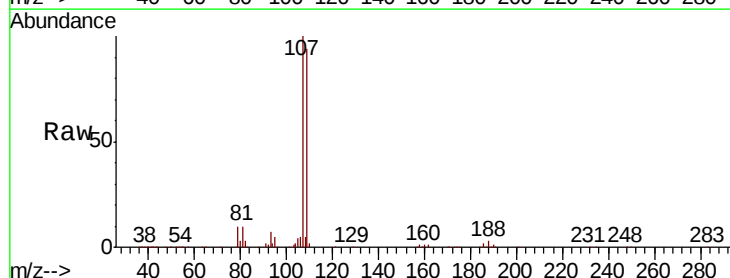
Acq: 16 Oct 2019 21:25

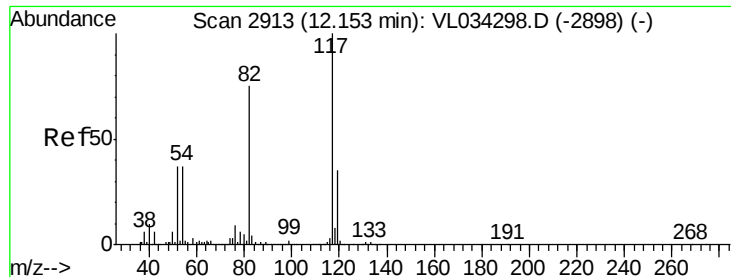
Tgt Ion: 107 Resp: 1406183

Ion Ratio Lower Upper

107 100

109 94.1 74.6 112.0

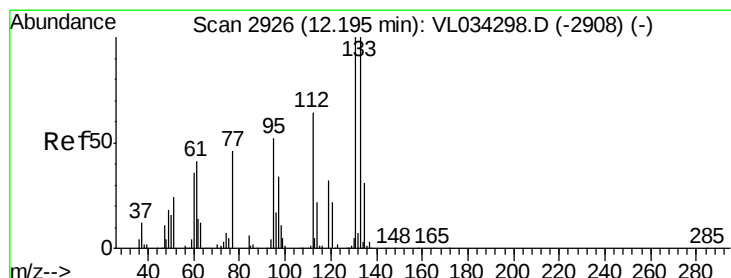
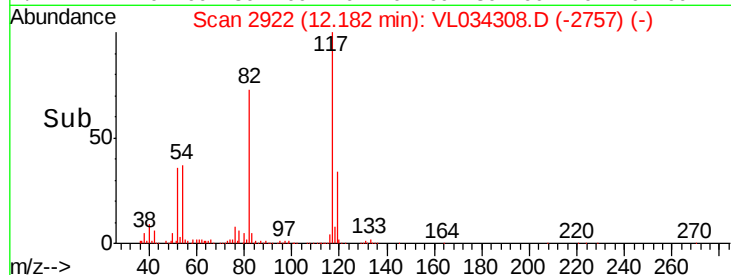
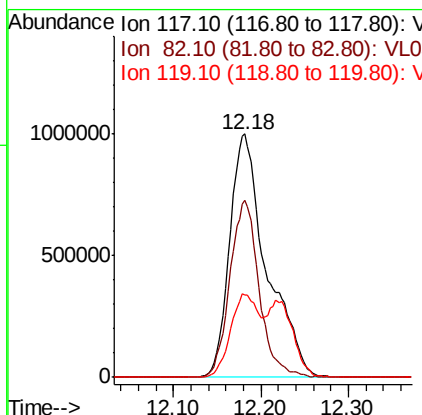
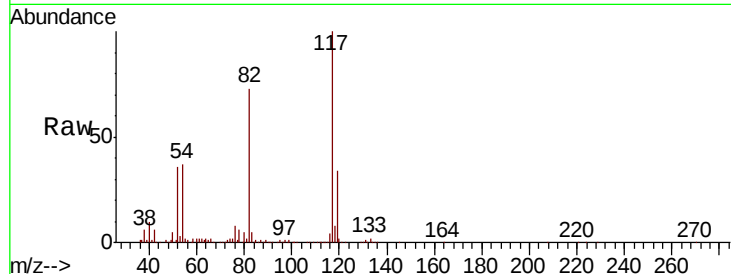




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2922
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

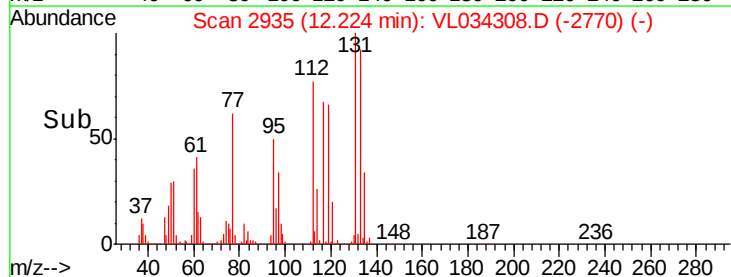
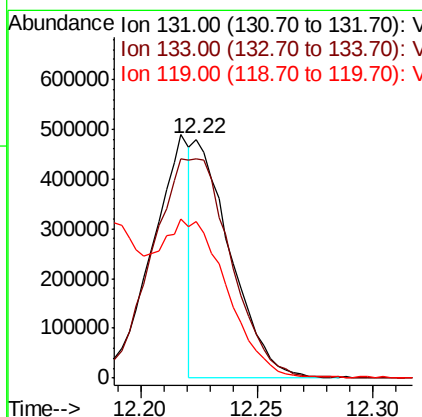
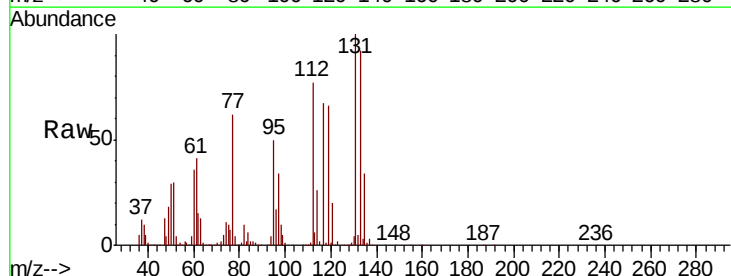
Instrument :
MSVOA_L
ClientSampleId :

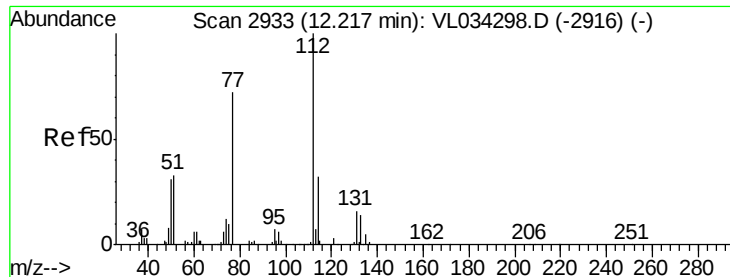
Tot Ion:117 Resp: 2939548
Ion Ratio Lower Upper
117 100
82 57.7 55.5 83.3
119 27.4 26.5 39.7



#56
1,1,1,2-Tetrachloroethane
Concen: 3.934 ppbv
RT: 12.22 min Scan# 2935
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion:131 Resp: 532953
Ion Ratio Lower Upper
131 100
133 0.0 77.1 115.7#
119 0.0 49.0 73.4#

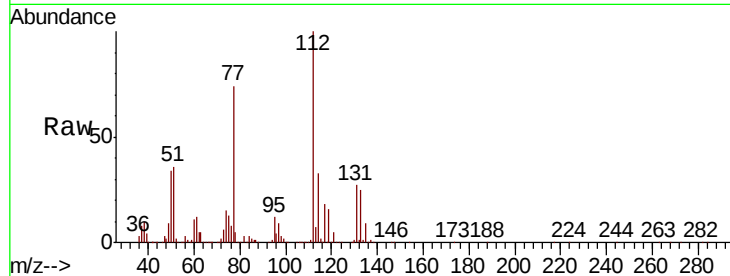




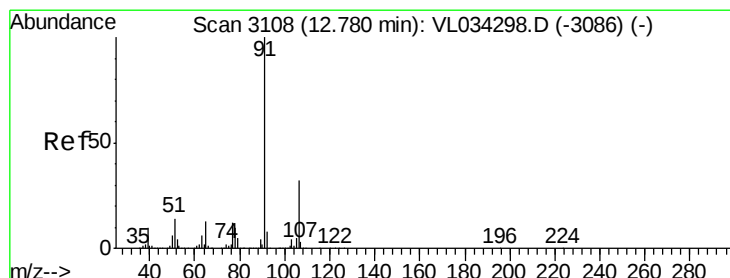
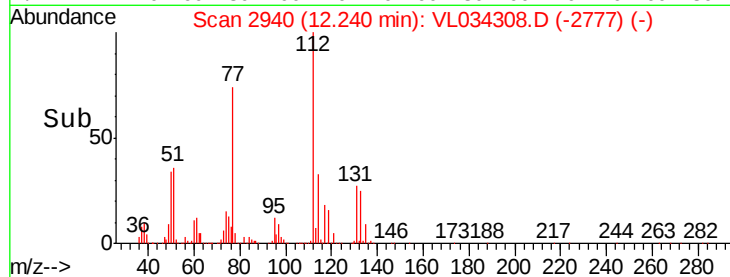
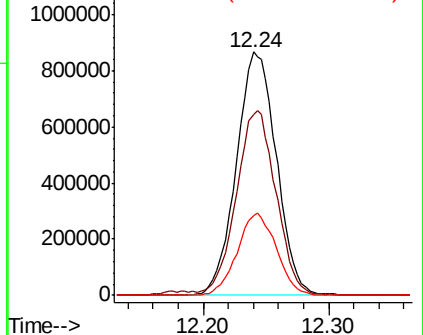
#57
Chlorobenzene
Concen: 7.794 ppbv
RT: 12.24 min Scan# 2940
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:112 Resp: 1911309
Ion Ratio Lower Upper
112 100
77 73.9 58.6 88.0
114 33.0 28.6 35.0

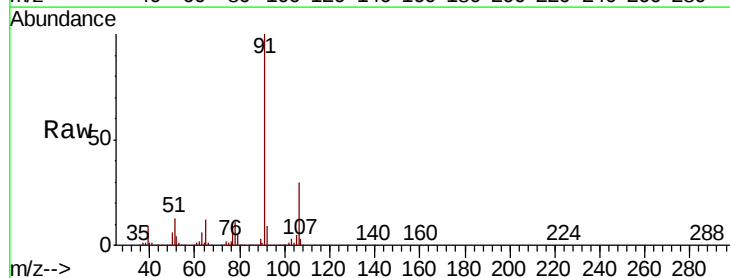


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

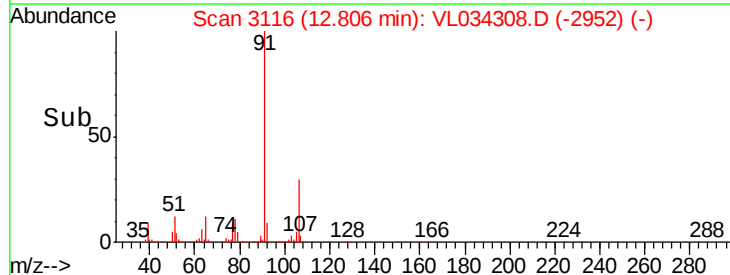
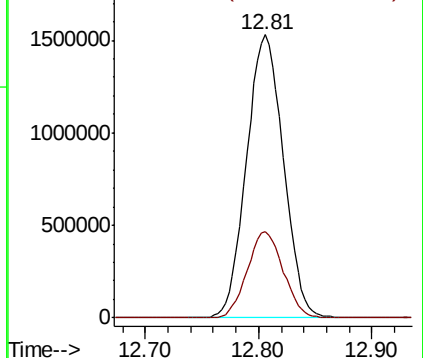


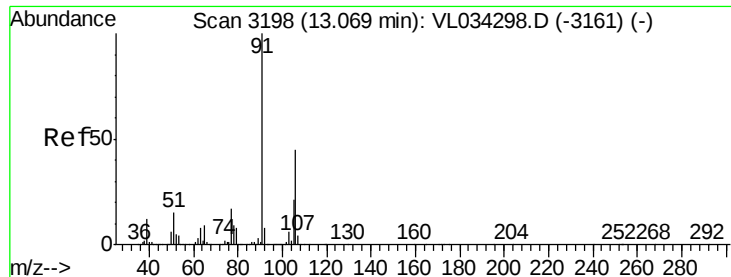
#58
Ethyl Benzene
Concen: 8.442 ppbv
RT: 12.81 min Scan# 3116
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 91 Resp: 3469170
Ion Ratio Lower Upper
91 100
106 30.3 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: 6.310 ppbv

RT: 13.09 min Scan# 3204

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

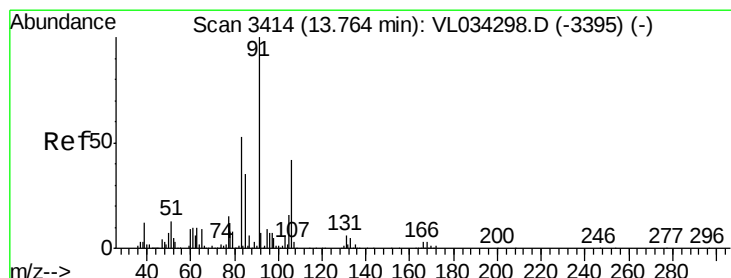
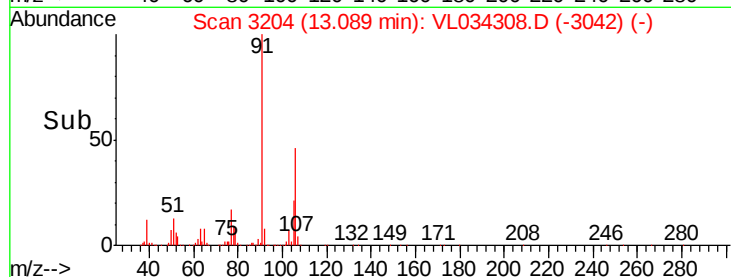
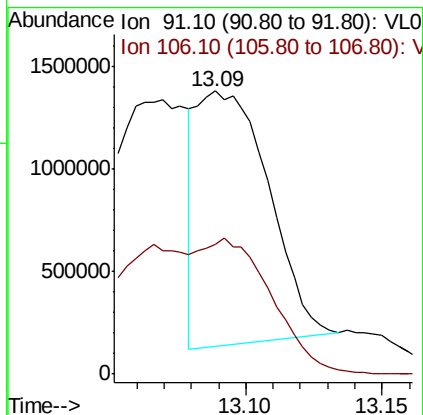
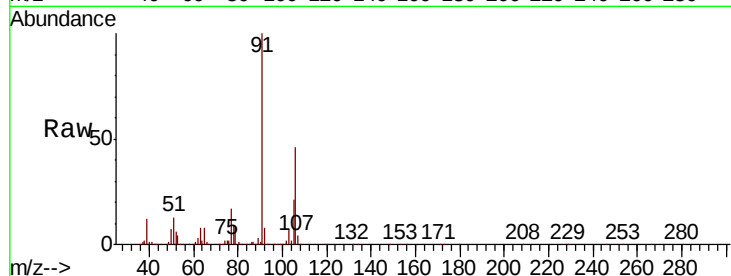
ClientSampled :

Tot Ion: 91 Resp: 2246675

Ion Ratio Lower Upper

91 100

106 112.8 35.4 53.2#



#60

o-Xylene

Concen: 8.077 ppbv

RT: 13.79 min Scan# 3422

Delta R.T. 0.03 min

Lab File: VL034308.D

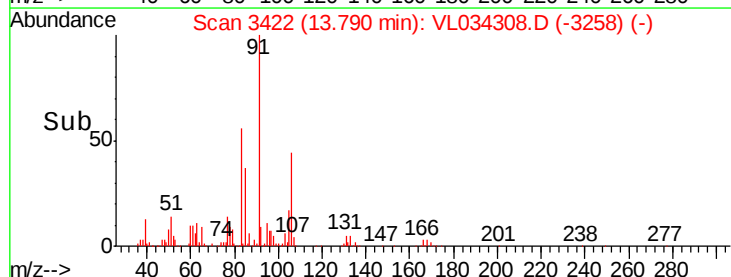
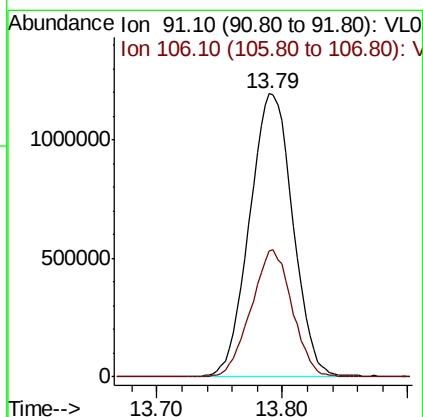
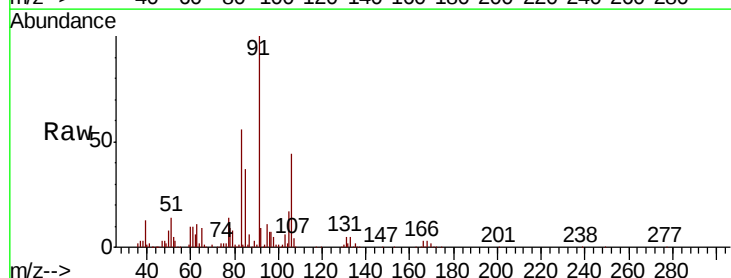
Acq: 16 Oct 2019 21:25

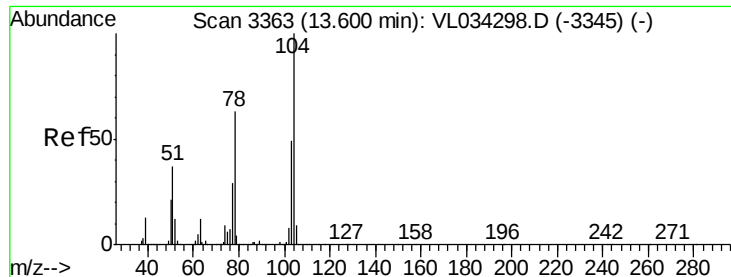
Tgt Ion: 91 Resp: 2863688

Ion Ratio Lower Upper

91 100

106 42.7 21.6 64.6





#61

Stvrene

Concen: 8.556 ppbv

RT: 13.63 min Scan# 3372

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

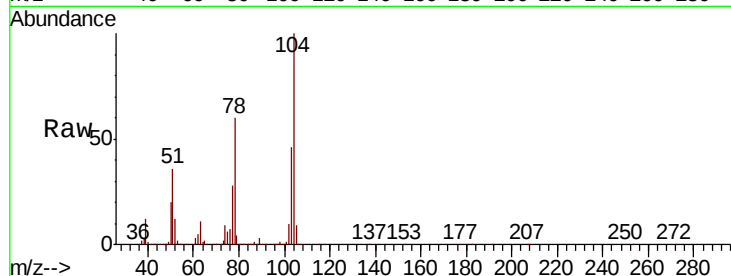
Tot Ion:104 Resp: 2135398

Ion Ratio Lower Upper

104 100

78 60.6 47.8 71.8

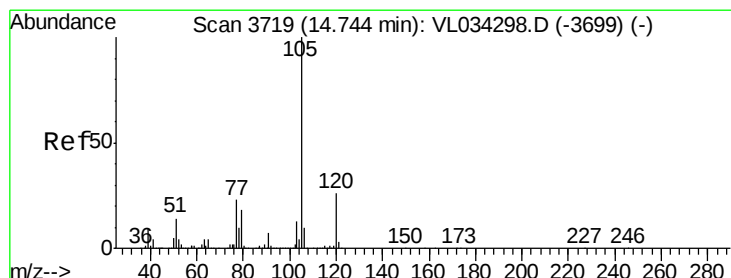
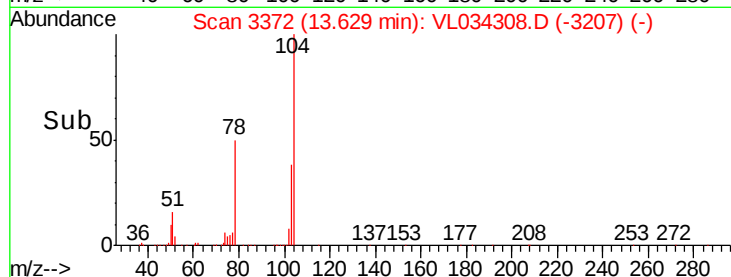
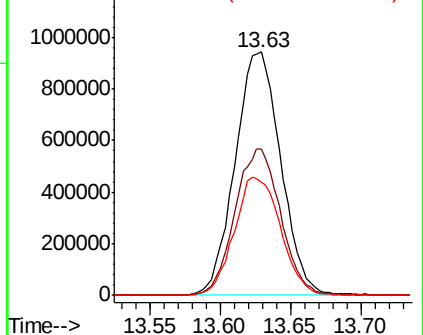
103 49.4 39.0 58.6



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: 7.953 ppbv

RT: 14.77 min Scan# 3726

Delta R.T. 0.02 min

Lab File: VL034308.D

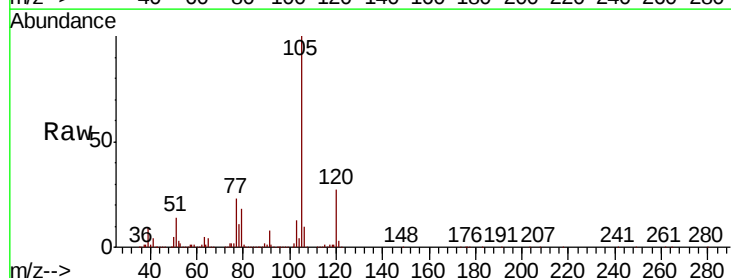
Acq: 16 Oct 2019 21:25

Tgt Ion:105 Resp: 3722100

Ion Ratio Lower Upper

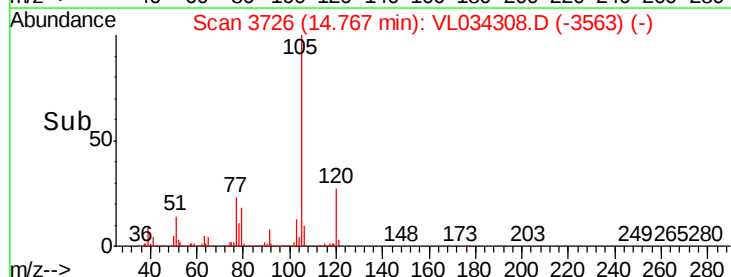
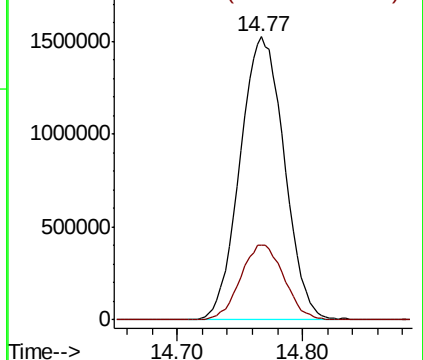
105 100

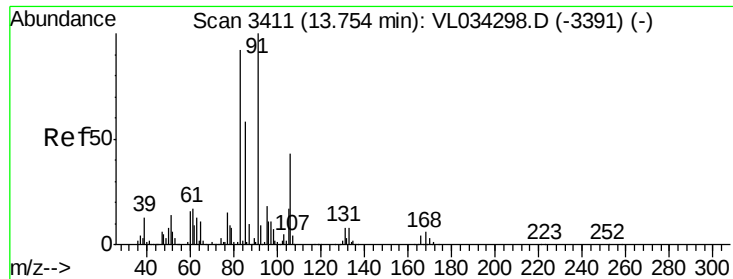
120 26.2 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

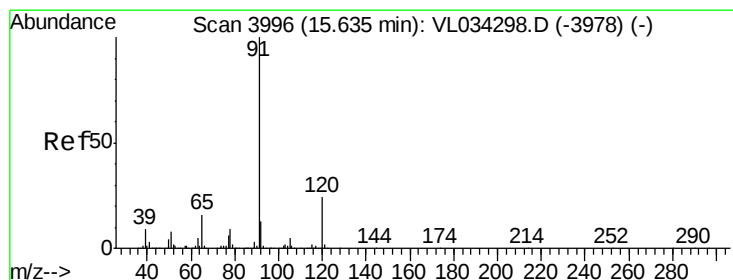
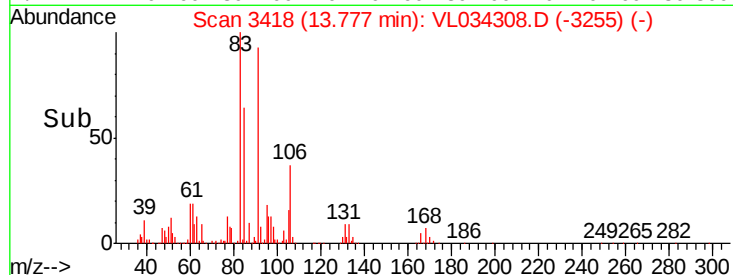
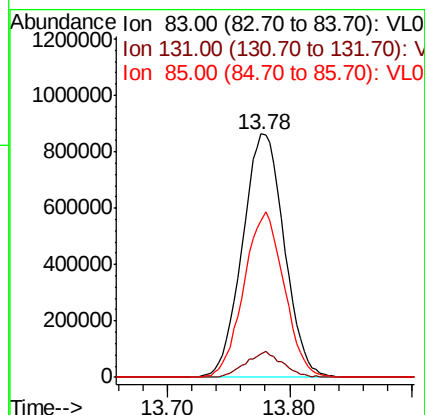
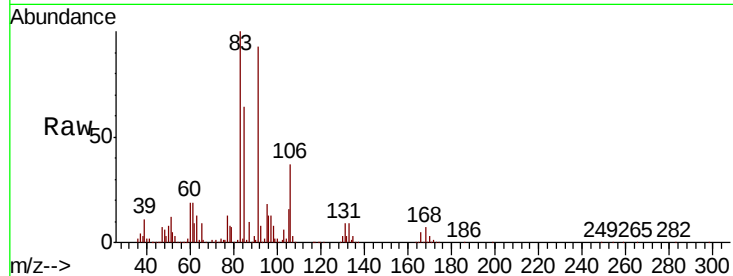




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.175 ppbv
 RT: 13.78 min Scan# 3418
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

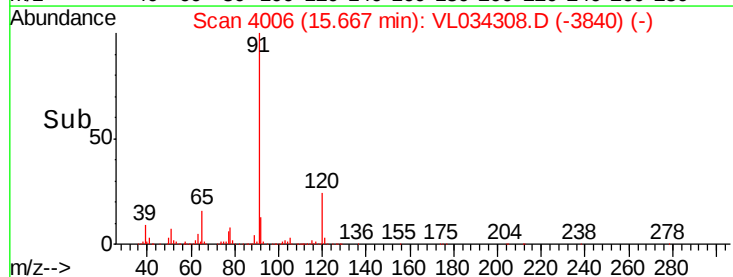
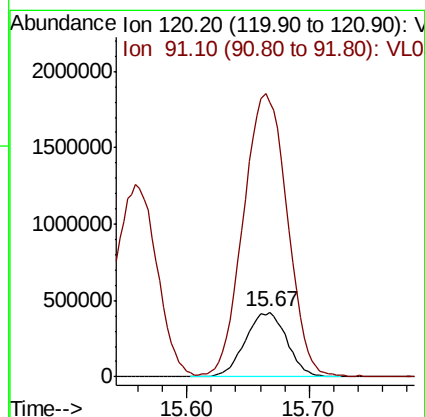
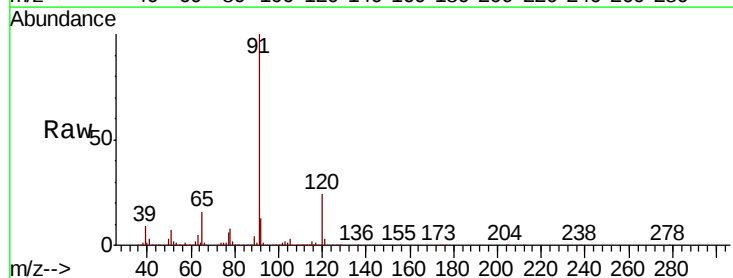
Instrument :
 MSVOA_L
 ClientSampled :

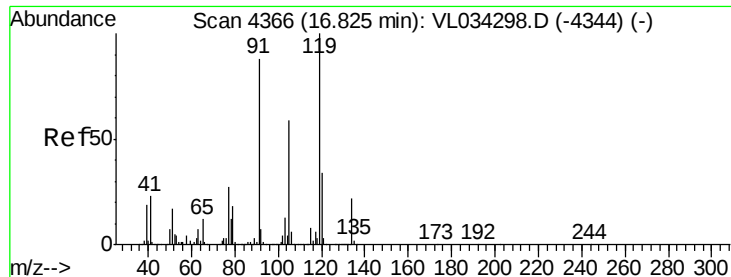
Tot Ion: 83 Resp: 2044204
 Ion Ratio Lower Upper
 83 100
 131 9.3 4.8 14.4
 85 65.4 32.5 97.4



#64
 n-propylbenzene
 Concen: 8.288 ppbv
 RT: 15.67 min Scan# 4006
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion:120 Resp: 995480
 Ion Ratio Lower Upper
 120 100
 91 465.4 374.9 562.3





#65

tert-Butylbenzene

Concen: 8.070 ppbv

RT: 16.85 min Scan# 4374

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

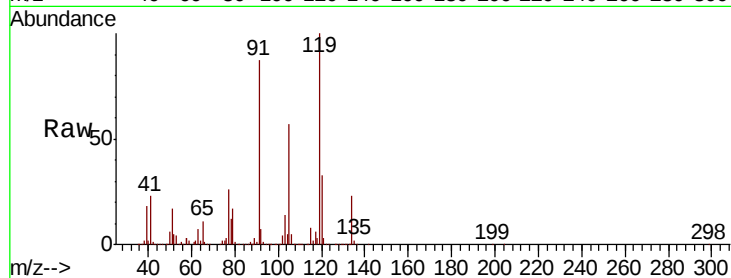
Tot Ion:119 Resp: 3347389

Ion	Ratio	Lower	Upper
119	100		
91	89.5	71.4	107.0
134	20.3	15.9	23.9

119 100

91 89.5 71.4 107.0

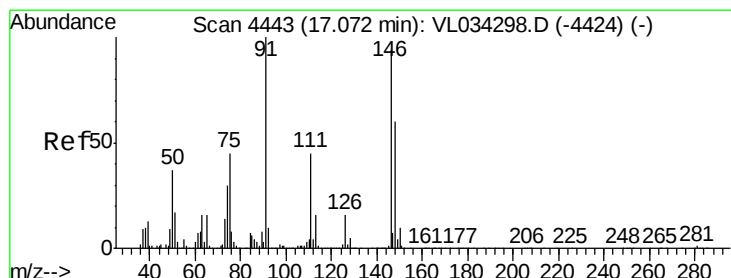
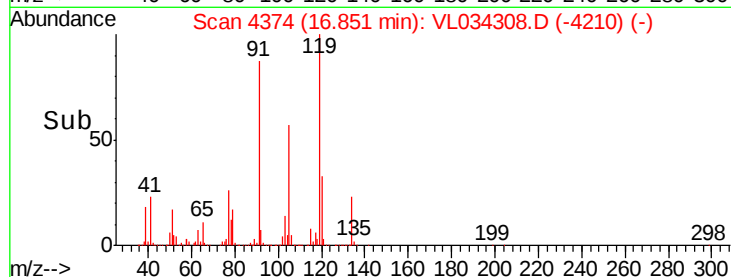
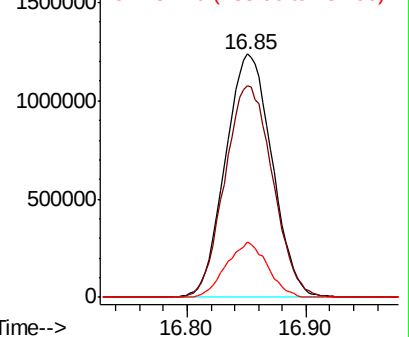
134 20.3 15.9 23.9



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.477 ppbv

RT: 17.10 min Scan# 4452

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

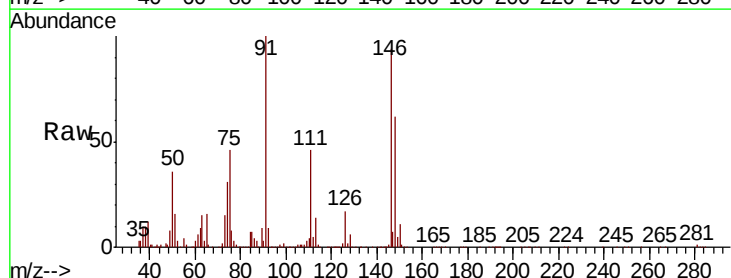
Tgt Ion: 91 Resp: 1716402

Ion	Ratio	Lower	Upper
91	100		
126	16.2	12.9	19.3
128	5.1	4.3	6.5

91 100

126 16.2 12.9 19.3

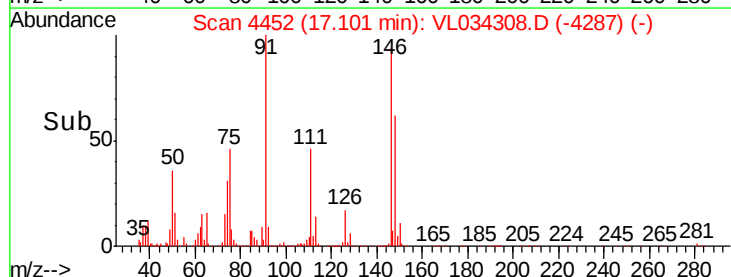
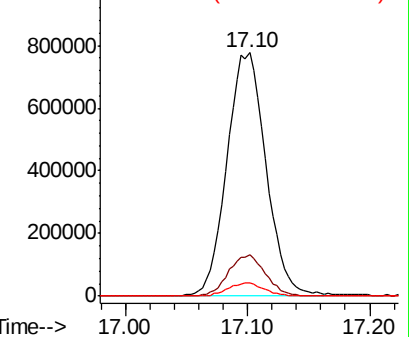
128 5.1 4.3 6.5

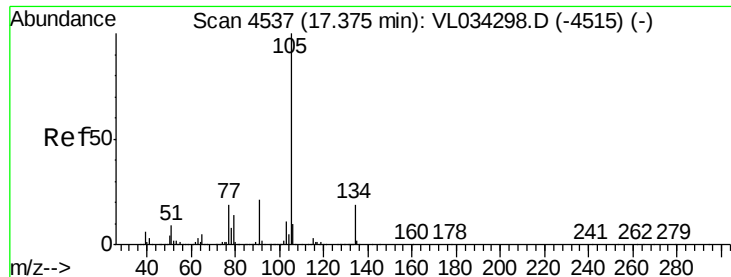


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.915 ppbv

RT: 17.40 min Scan# 4546

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

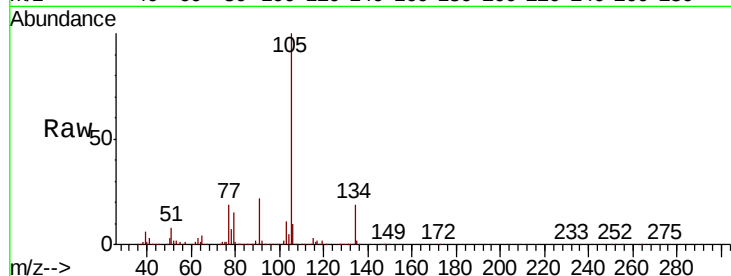
ClientSampleId :

Tot Ion:105 Resp: 4619955

Ion Ratio Lower Upper

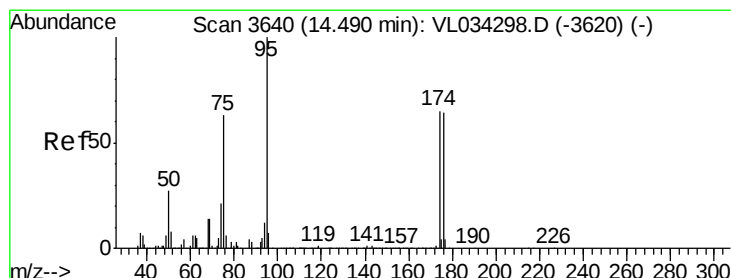
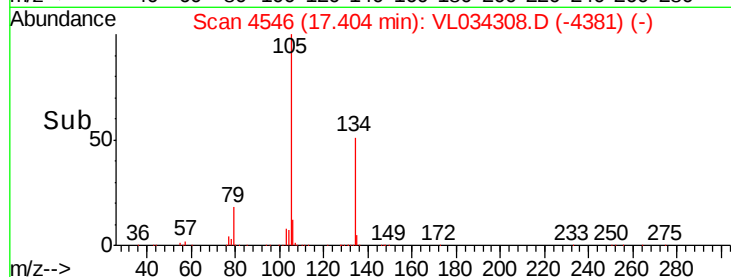
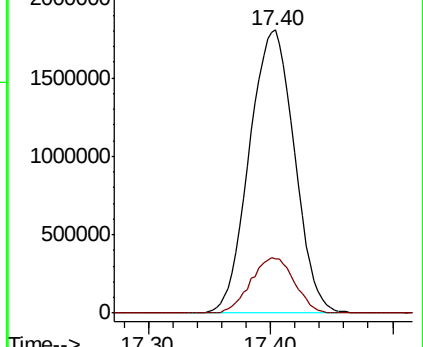
105 100

134 19.0 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: 7.968 ppbv

RT: 14.52 min Scan# 3648

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

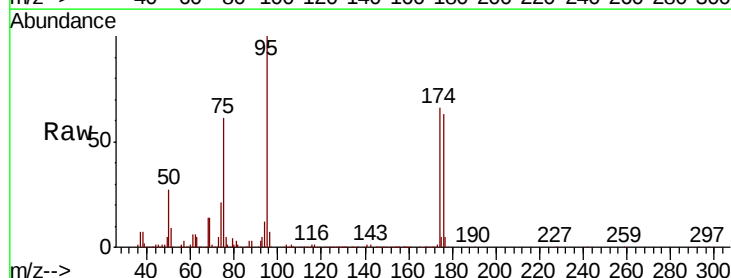
Tgt Ion: 95 Resp: 1983738

Ion Ratio Lower Upper

95 100

174 65.8 52.6 78.8

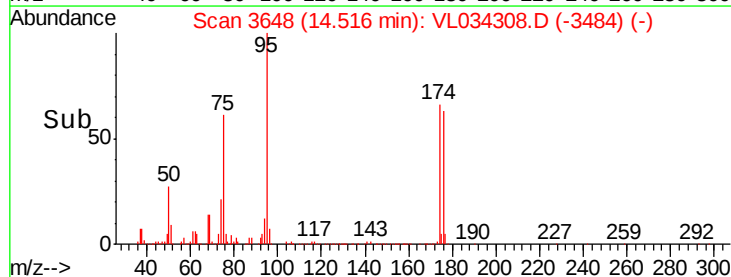
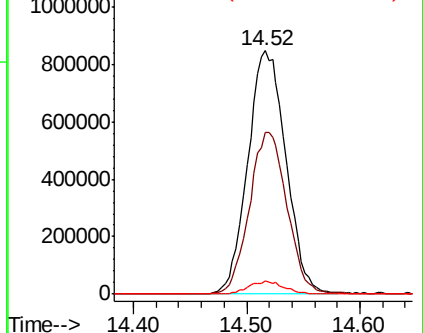
175 4.9 3.8 5.6

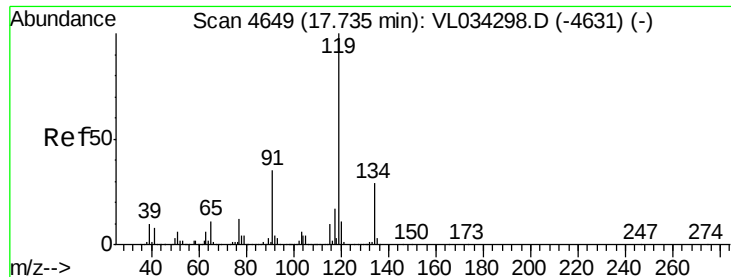


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

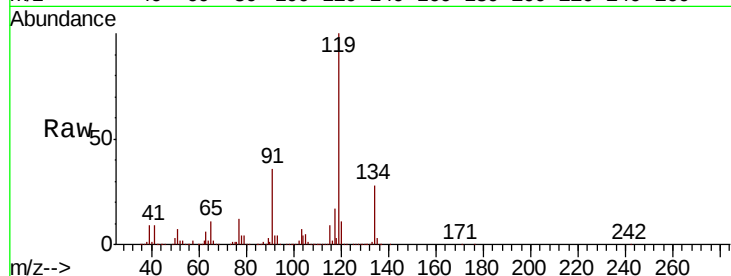




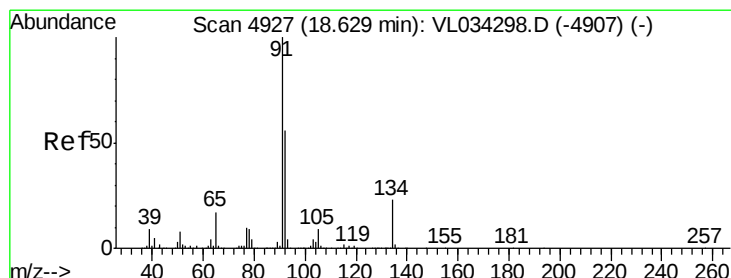
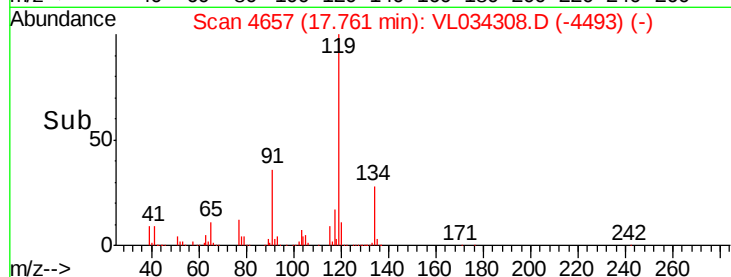
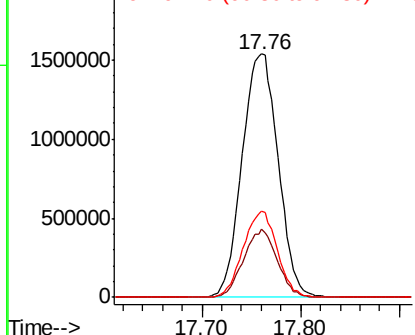
#69
 p-Isopropyltoluene
 Concen: 8.152 ppbv
 RT: 17.76 min Scan# 4657
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:119 Resp: 3879394
 Ion Ratio Lower Upper
 119 100
 134 26.1 21.3 31.9
 91 33.4 26.6 39.8

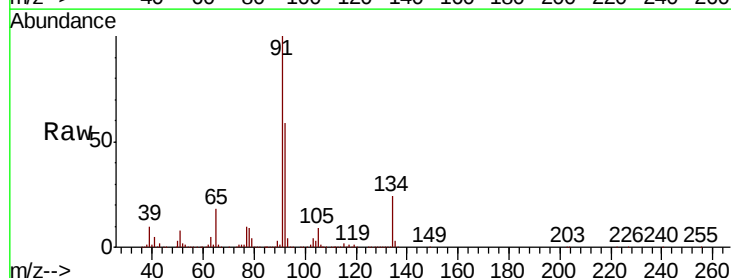


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

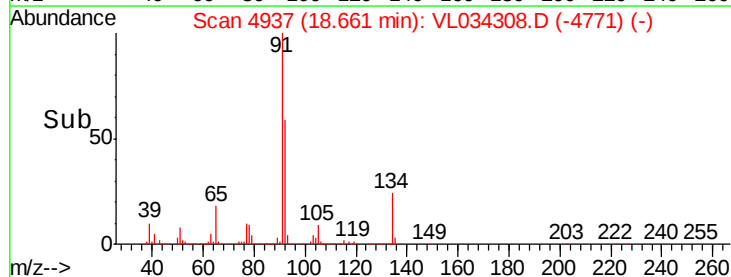
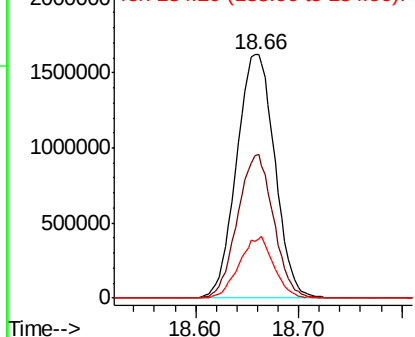


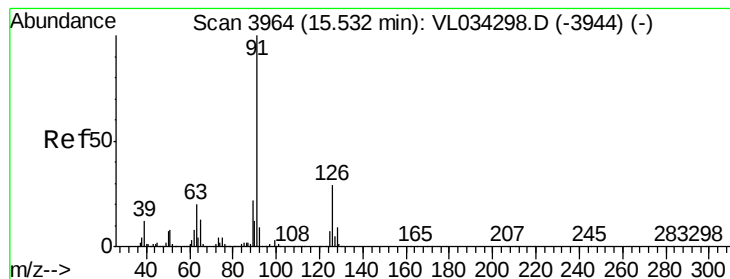
#70
 n-Butylbenzene
 Concen: 8.042 ppbv
 RT: 18.66 min Scan# 4937
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion: 91 Resp: 4164164
 Ion Ratio Lower Upper
 91 100
 92 55.7 44.5 66.7
 134 22.7 18.2 27.2



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





#71

2-Chlorotoluene

Concen: 8.202 ppbv

RT: 15.56 min Scan# 3972

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

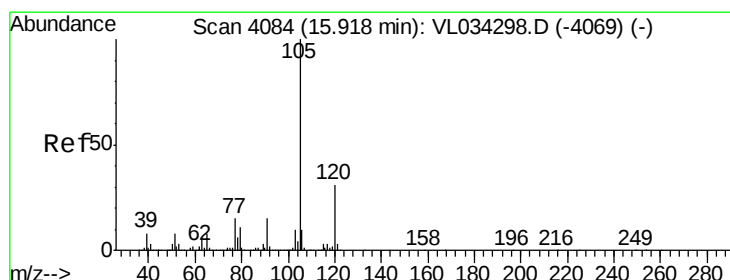
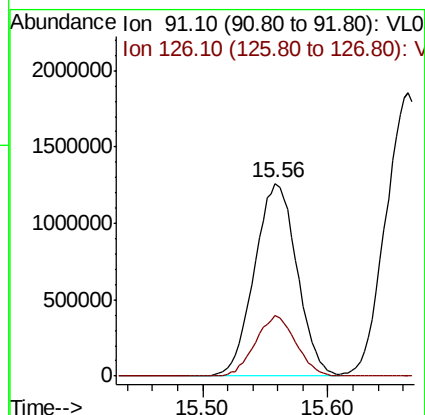
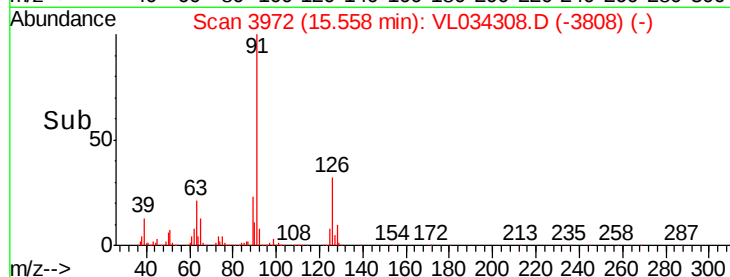
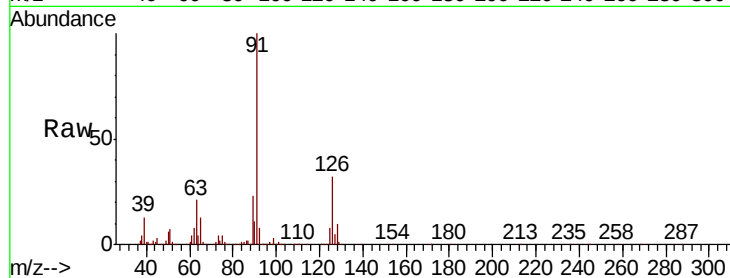
ClientSampleId :

Tot Ion: 91 Resp: 2976229

Ion Ratio Lower Upper

91 100

126 30.2 11.9 47.5



#72

4-Ethyltoluene

Concen: 8.349 ppbv

RT: 15.94 min Scan# 4092

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Tgt Ion:105 Resp: 3327201

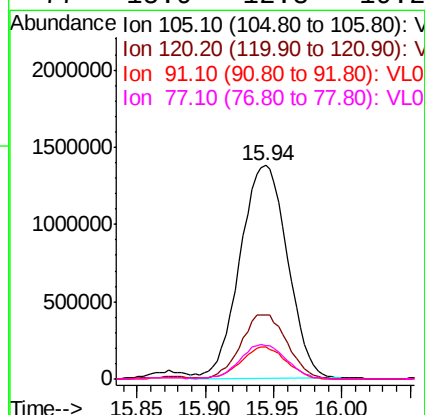
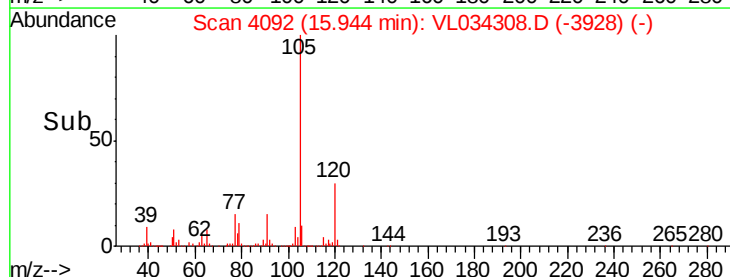
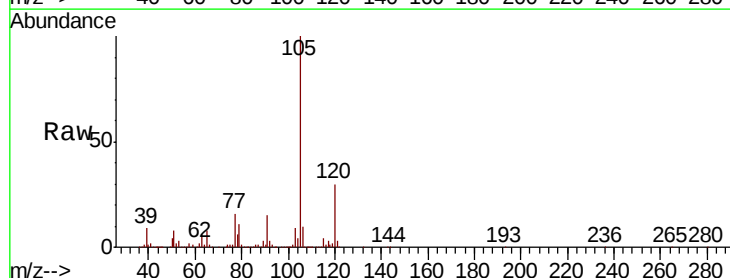
Ion Ratio Lower Upper

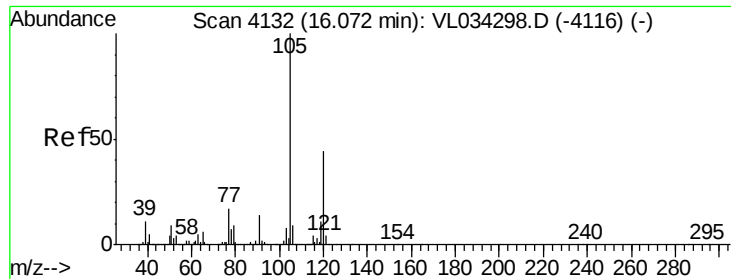
105 100

120 29.6 23.8 35.8

91 14.1 11.2 16.8

77 15.9 12.8 19.2

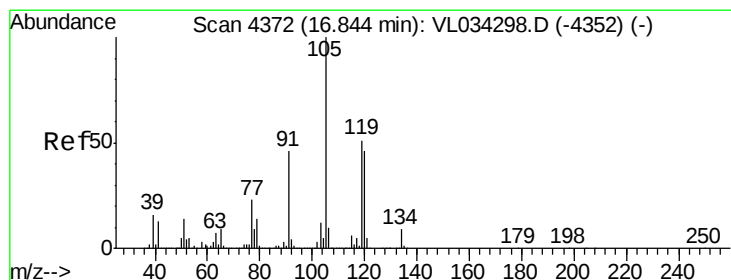
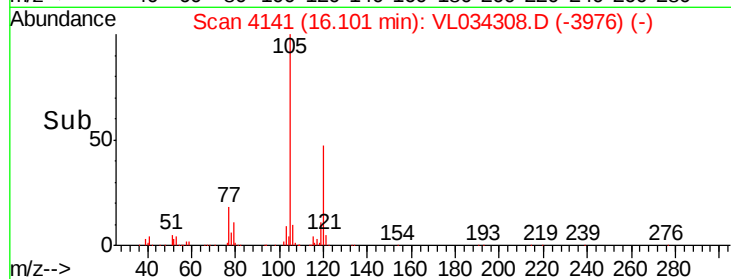
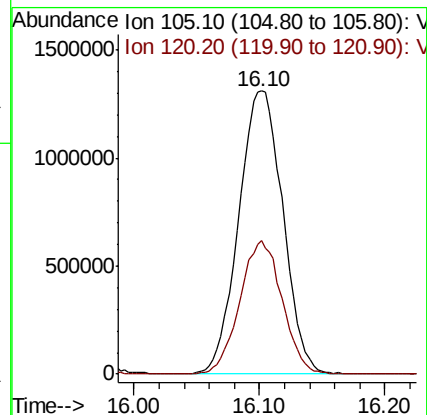
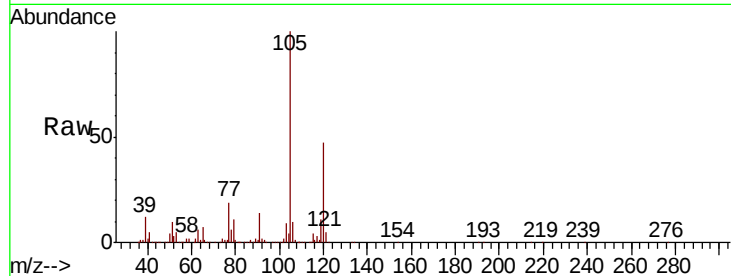




#73
 1,3,5-Trimethylbenzene
 Concen: 8.066 ppbv
 RT: 16.10 min Scan# 4141
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

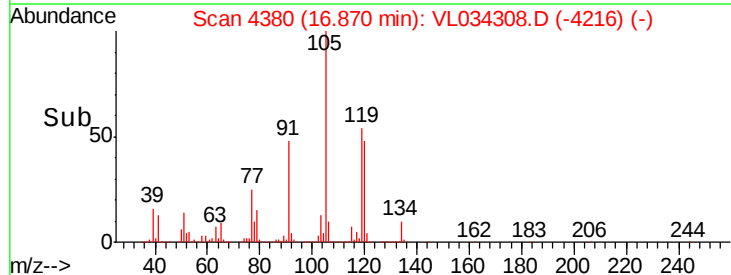
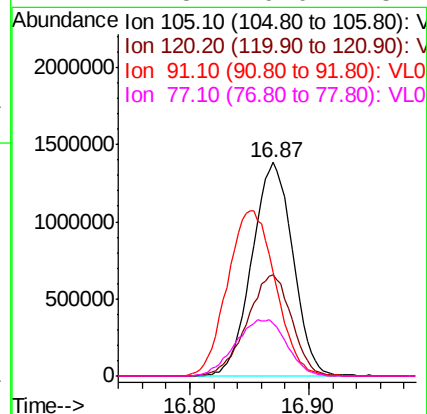
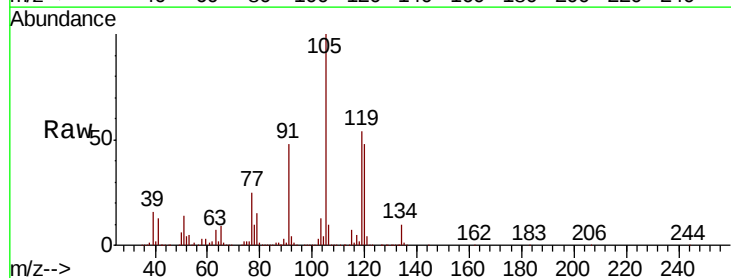
Instrument :
 MSVOA_L
 ClientSampled :

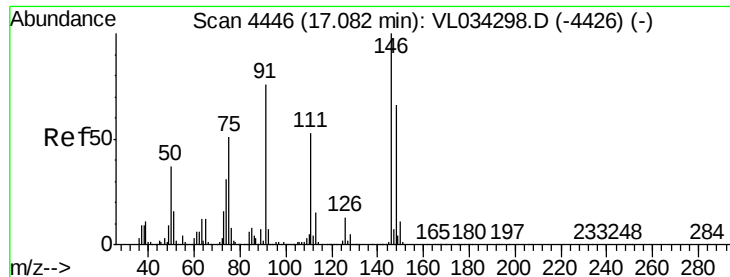
Tot Ion:105 Resp: 3185040
 Ion Ratio Lower Upper
 105 100
 120 47.3 35.2 52.8



#74
 1,2,4-Trimethylbenzene
 Concen: 8.001 ppbv
 RT: 16.87 min Scan# 4380
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion:105 Resp: 3294706
 Ion Ratio Lower Upper
 105 100
 120 47.3 37.0 55.6
 91 48.1 38.2 57.2
 77 24.8 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 7.716 ppbv

RT: 17.11 min Scan# 4455

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

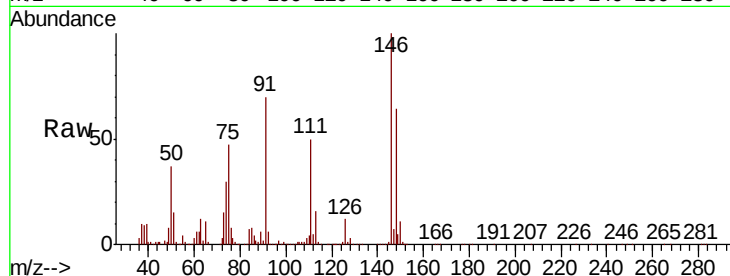
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:146 Resp: 1907705

Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.5	73.5
148	65.3	32.3	96.8

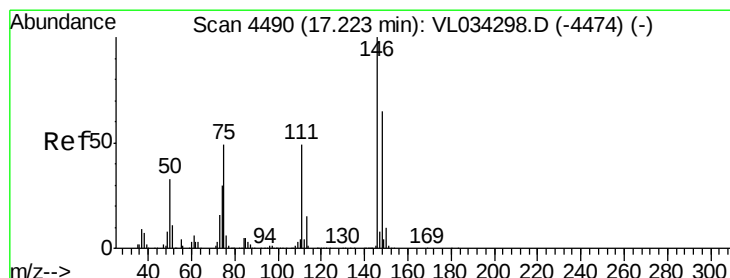
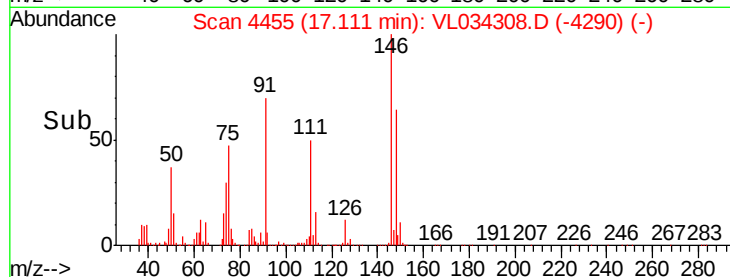
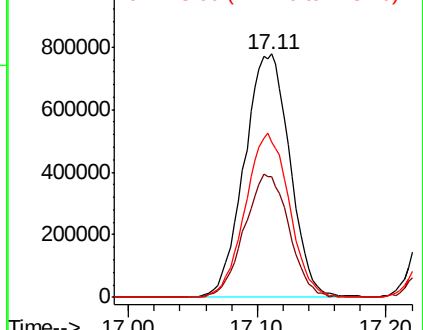


Abundance

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: 8.045 ppbv

RT: 17.25 min Scan# 4498

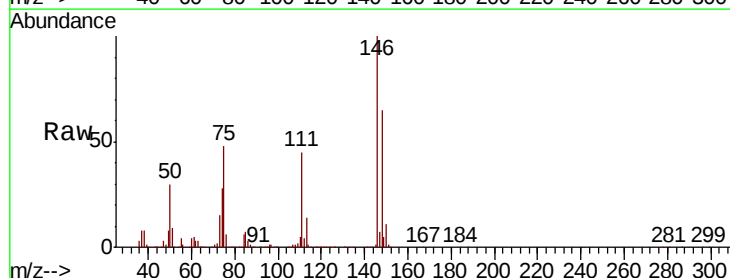
Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Tgt Ion:146 Resp: 1942721

Ion	Ratio	Lower	Upper
146	100		
111	47.4	23.9	71.7
148	64.7	33.1	99.2

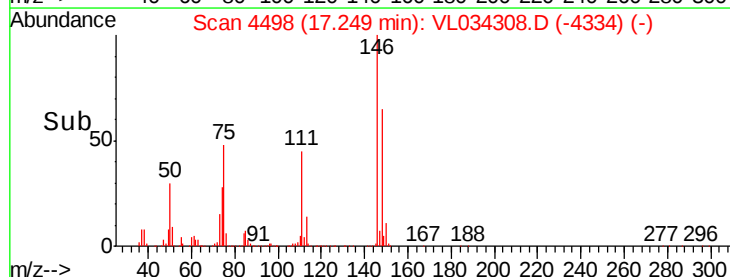
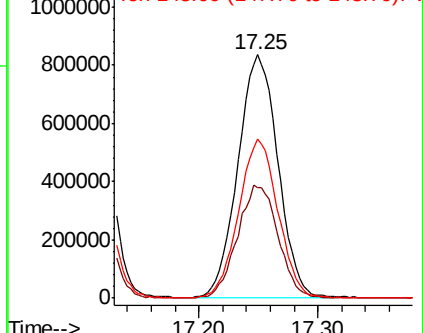


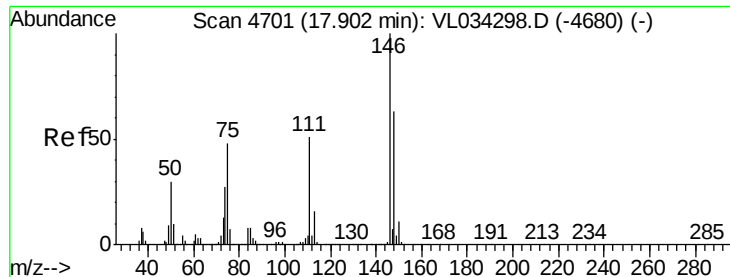
Abundance

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: 7.733 ppbv

RT: 17.93 min Scan# 4711

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampled :

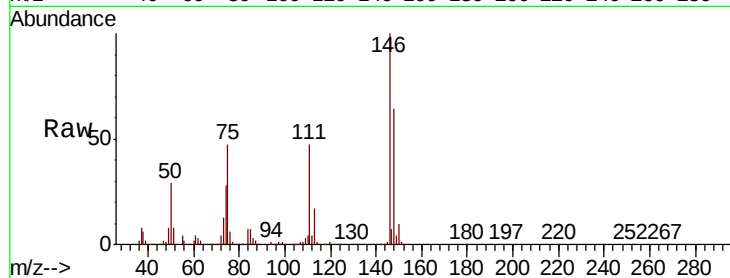
Tot Ion:146 Resp: 1874358

Ion Ratio Lower Upper

146 100

111 50.9 25.1 75.3

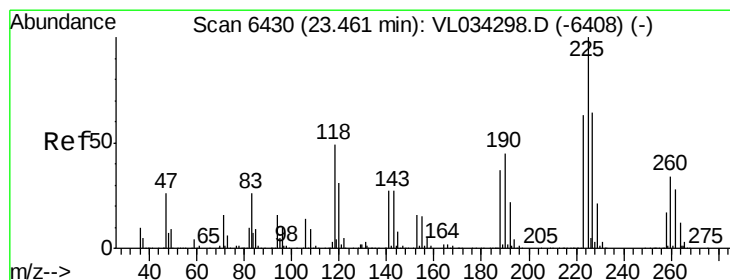
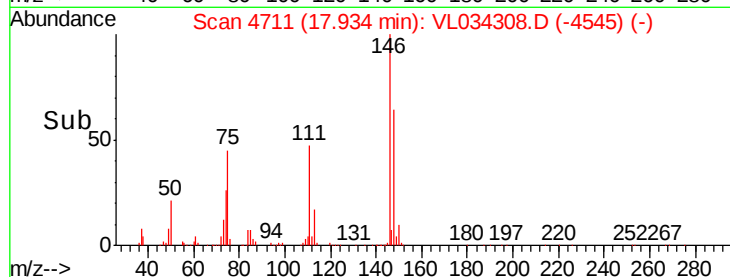
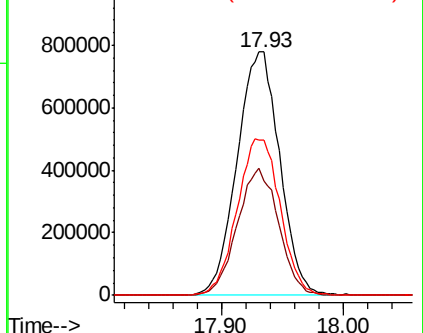
148 65.2 32.3 96.8



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: 6.786 ppbv

RT: 23.48 min Scan# 6437

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

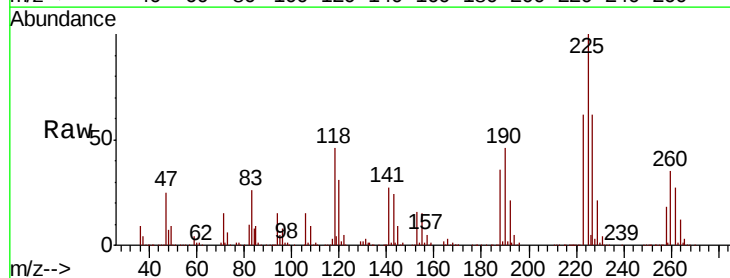
Tgt Ion:225 Resp: 1360642

Ion Ratio Lower Upper

225 100

223 63.3 50.8 76.2

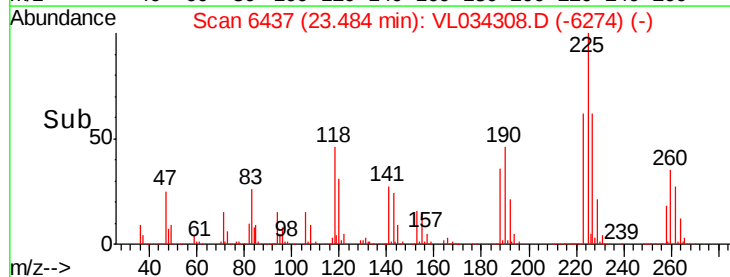
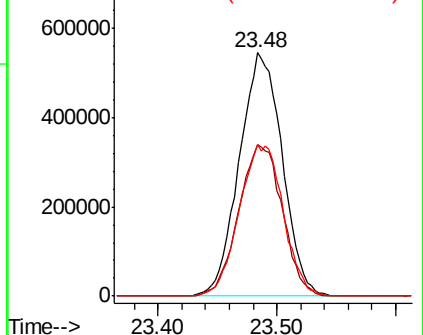
227 63.8 51.5 77.3

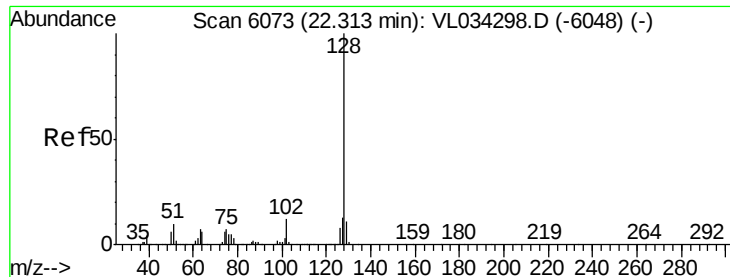


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.502 ppbv

RT: 22.34 min Scan# 6082

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

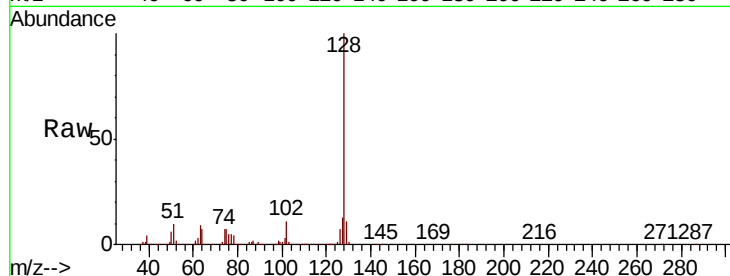
Tot Ion:128 Resp: 2858113

Ion Ratio Lower Upper

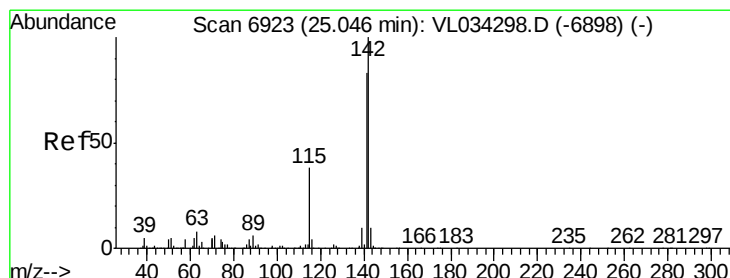
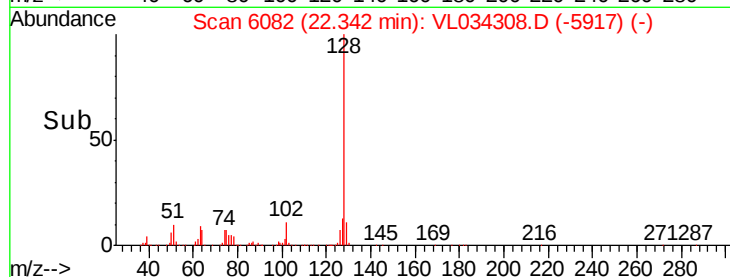
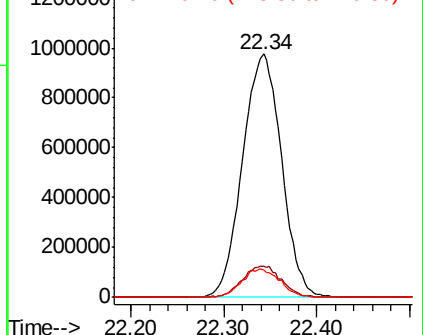
128 100

127 13.0 10.2 15.4

129 11.0 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: 10.905 ppbv

RT: 25.07 min Scan# 6929

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

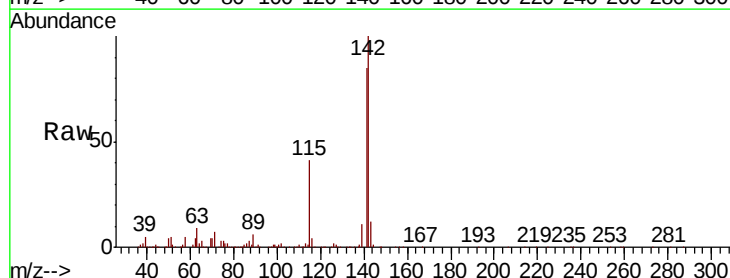
Tgt Ion:142 Resp: 948128

Ion Ratio Lower Upper

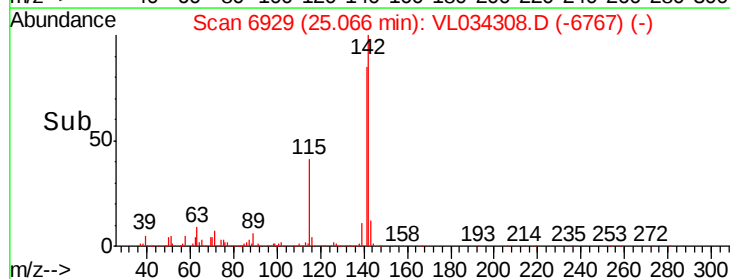
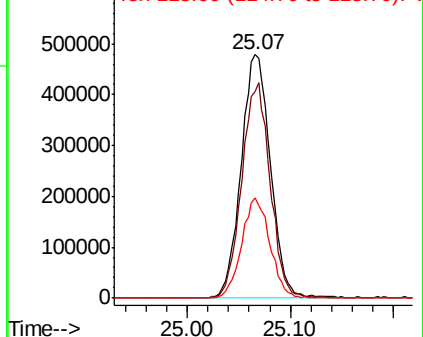
142 100

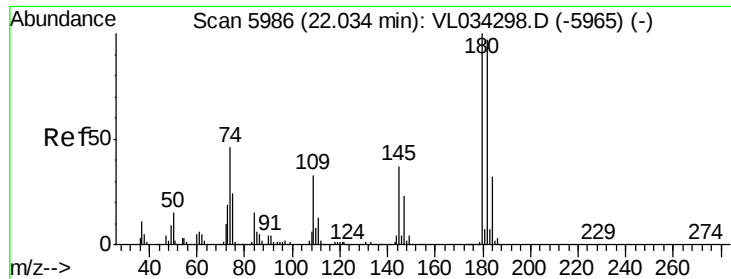
141 85.7 65.7 98.5

115 40.0 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: 8.756 ppbv

RT: 22.07 min Scan# 5997

Delta R.T. 0.04 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:180 Resp: 1720167

Ion Ratio Lower Upper

180 100

182 97.2 77.8 116.8

184 31.0 25.4 38.2

