

Data File : VL034092.D
Acq On : 5 Aug 2019 16:34
Operator : SY/AP
Sample : VSTDIC015
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Aug 05 17:00:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 13:52:58 2019
QLast Update : Mon Aug 05 13:52:58 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1012538	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2157366	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2346951	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1894153	9.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.30%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	1384659	7.166	ppbv 99
3) Chlorodifluoromethane	2.98	51	1571839	13.170	ppbv 98
4) Chloromethane	3.14	50	1050352	15.248	ppbv 96
5) Vinyl Chloride	3.26	62	943397	13.833	ppbv 97
6) Bromomethane	3.48	94	498265	9.771	ppbv 96
7) Chloroethane	3.56	64	348642	10.595	ppbv 99
8) Dichlorotetrafluoroethane	3.19	85	1825685	9.663	ppbv 99
9) Propene	3.01	41	936949	20.333	ppbv 98
10) Heptane	8.20	43	2363100	18.519	ppbv 99
11) Trichlorofluoromethane	3.97	101	1940874	10.030	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1386931	9.415	ppbv 100
13) Ethanol	3.62	45	176229	9.435	ppbv 97
14) Bromoethene	3.75	108	656309	7.954	ppbv 100
15) Acetone	3.87	43	1731417	10.390	ppbv 98
16) 1,3-Butadiene	3.33	39	966079	15.844	ppbv 100
17) tert-Butyl alcohol	4.32	59	1635504	13.518	ppbv 99
18) 1,1-Dichloroethene	4.32	96	670024	10.389	ppbv 89
19) Isopropyl Alcohol	3.99	45	1324072	12.874	ppbv 92
20) Methylene Chloride	4.37	84	600738	10.008	ppbv 99
21) Allyl Chloride	4.44	41	1379472	13.658	ppbv 98
22) trans-1,2-Dichloroethene	4.92	96	691439	10.521	ppbv 98
23) Vinyl Acetate	5.12	43	3105412	18.084	ppbv 98
24) 1,1-Dichloroethane	5.05	63	1877449	13.019	ppbv 99
25) Ethyl Acetate	5.72	43	3559478	14.438	ppbv 99
26) Hexane	5.74	57	1569323	14.062	ppbv 96
27) Carbon Disulfide	4.58	76	1832163	11.026	ppbv 100
28) Methyl tert-Butyl Ether	5.07	73	2619204	15.636	ppbv 98
29) Chloroform	5.81	83	2182091	11.238	ppbv 100
30) Cyclohexane	7.20	84	1320035	14.832	ppbv 96
31) cis-1,2-Dichloroethene	5.60	61	1630348	14.894	ppbv 100
32) 1,1,1-Trichloroethane	6.57	97	2143025	10.467	ppbv 99
34) 2-Butanone	5.29	43	2560874	20.723	ppbv 98
35) Carbon Tetrachloride	7.09	117	2085828	11.967	ppbv 99
36) Benzene	6.96	78	3073692	14.947	ppbv 99
37) 1,2-Dichloroethane	6.37	62	1768681	13.183	ppbv 100
38) Trichloroethene	7.91	130	1084369	15.609	ppbv 98
39) 1,2-Dichloropropane	7.69	63	1307484	17.576	ppbv 98
40) 1,4-Dioxane	7.90	88	449033	15.751	ppbv # 98
41) Tetrahydrofuran	6.10	42	1634454	24.674	ppbv 99
42) Bromodichloromethane	7.87	83	2424062	14.334	ppbv 96
43) Methyl Methacrylate	8.09	69	1366561	19.265	ppbv 98

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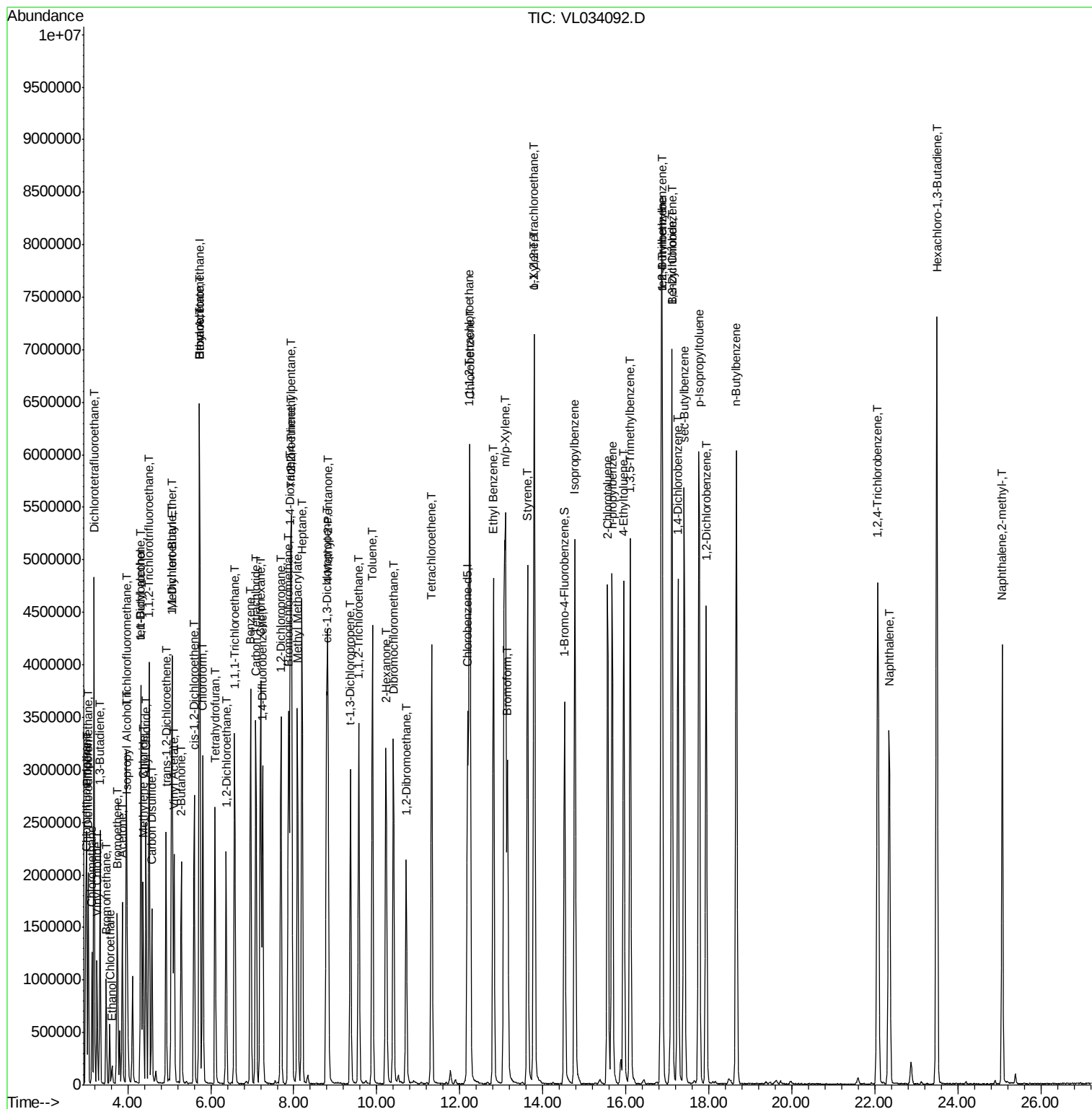
Quant Time: Aug 05 17:00:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 13:52:58 2019
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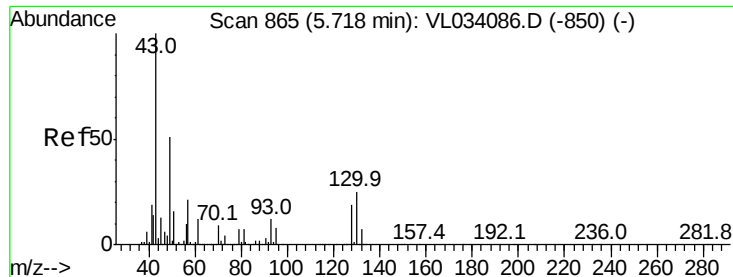
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4992151	16.258	ppbv	97
45) t-1,3-Dichloropropene	9.37	75	1823608	20.802	ppbv	100
46) cis-1,3-Dichloropropene	8.79	75	2013921	19.791	ppbv	100
47) 1,1,2-Trichloroethane	9.57	97	1267436	15.824	ppbv	98
48) Dibromochloromethane	10.40	129	2007763	14.814	ppbv	100
49) Bromoform	13.15	173	1831011	15.596	ppbv	100
50) 4-Methyl-2-Pentanone	8.82	43	3730450	20.326	ppbv	98
51) 2-Hexanone	10.22	43	3313152	23.415	ppbv #	100
52) Tetrachloroethene	11.32	164	1097291	18.287	ppbv	95
53) Toluene	9.89	91	3520645	17.227	ppbv	100
54) 1,2-Dibromoethane	10.71	107	1895011	15.943	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.23	131	1322641	12.785	ppbv	89
57) Chlorobenzene	12.25	112	2500787	13.049	ppbv	97
58) Ethyl Benzene	12.81	91	4567069	14.744	ppbv	94
59) m/p-Xylene	13.10	91	3921434	14.168	ppbv #	38
60) o-Xylene	13.80	91	3625434	13.036	ppbv	99
61) Styrene	13.63	104	3066532	16.847	ppbv	98
62) Isopropylbenzene	14.77	105	4777201	13.085	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.79	83	2565961	11.722	ppbv	99
64) n-propylbenzene	15.67	120	1349509	14.617	ppbv	93
65) tert-Butylbenzene	16.86	119	4156570	12.682	ppbv	98
66) Benzyl Chloride	17.10	91	2764736	17.251	ppbv	100
67) sec-Butylbenzene	17.41	105	5653228	12.039	ppbv	98
69) p-Isopropyltoluene	17.76	119	4775836	12.487	ppbv	97
70) n-Butylbenzene	18.66	91	5107593	12.241	ppbv	98
71) 2-Chlorotoluene	15.56	91	3897509	14.422	ppbv	98
72) 4-Ethyltoluene	15.95	105	4278287	13.726	ppbv	97
73) 1,3,5-Trimethylbenzene	16.11	105	4063567	13.241	ppbv	96
74) 1,2,4-Trimethylbenzene	16.88	105	4043639	11.907	ppbv	96
75) 1,3-Dichlorobenzene	17.11	146	2420834	12.040	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	2477123	13.047	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2400824	12.714	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	2075330	11.979	ppbv	100
79) Naphthalene	22.34	128	4357822	14.333	ppbv	97
80) Naphthalene,2-methyl-	25.07	142	2381836	20.413	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	2404552	12.787	ppbv	100

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 866

Delta R.T. 0.00 min

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VSTDIC015

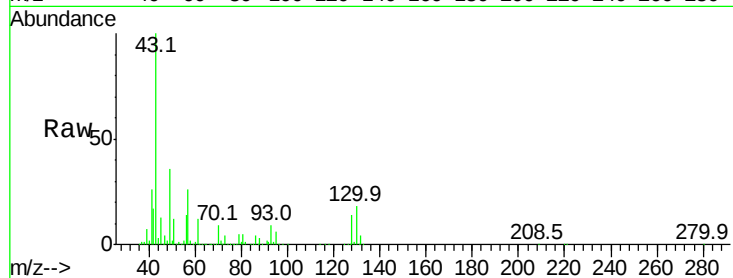
Tgt Ion: 49 Resp: 1012538

Ion Ratio Lower Upper

49 100

128 39.6 19.5 58.5

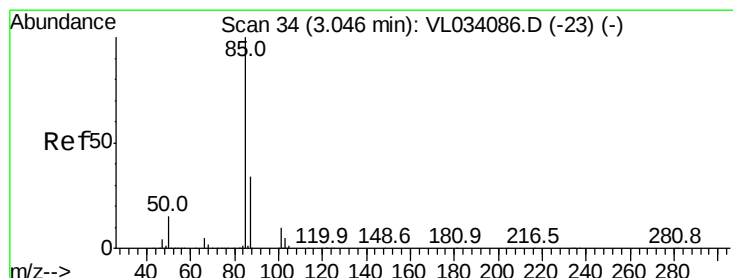
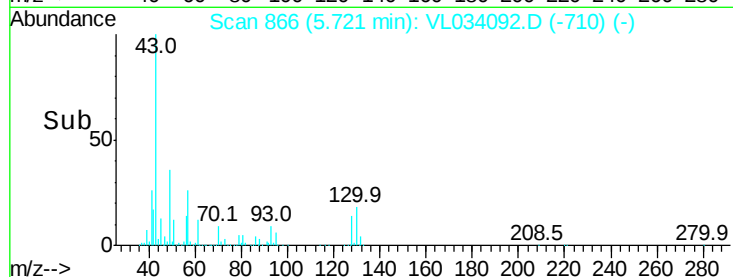
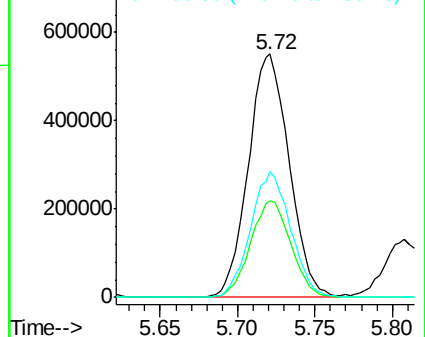
130 50.8 25.4 76.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.166 ppbv

RT: 3.05 min Scan# 34

Delta R.T. -0.00 min

Lab File: VL034092.D

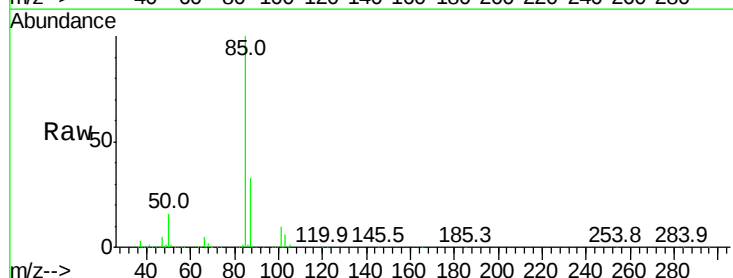
Acq: 5 Aug 2019 16:34

Tgt Ion: 85 Resp: 1384659

Ion Ratio Lower Upper

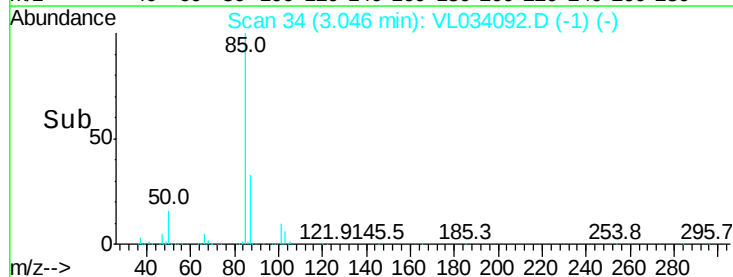
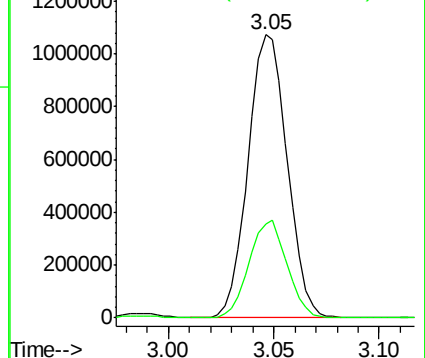
85 100

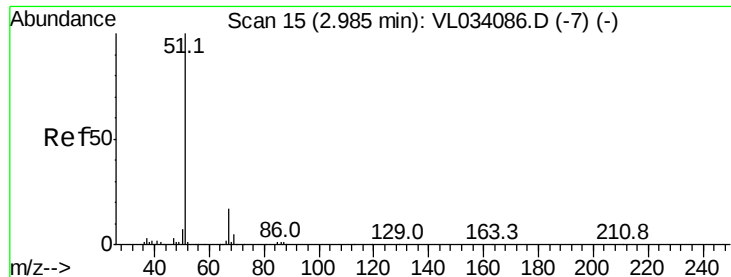
87 33.3 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.170 ppbv

RT: 2.98 min Scan# 15

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

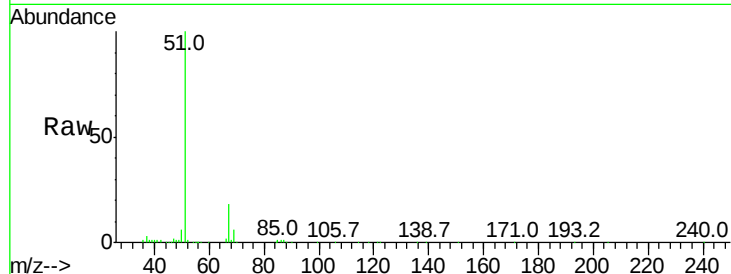
VSTDIC015

Tgt Ion: 51 Resp: 1571839

Ion Ratio Lower Upper

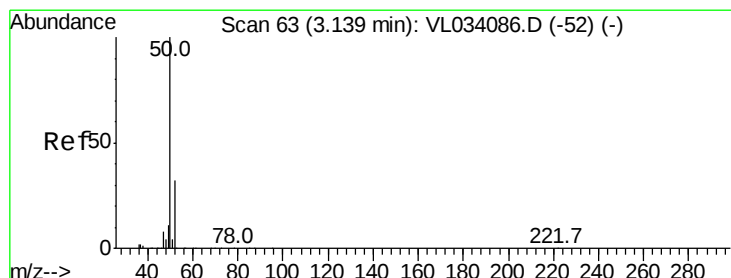
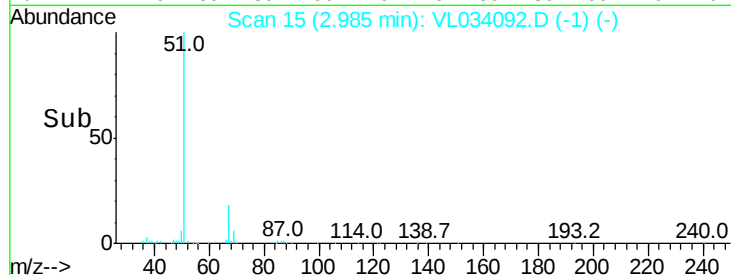
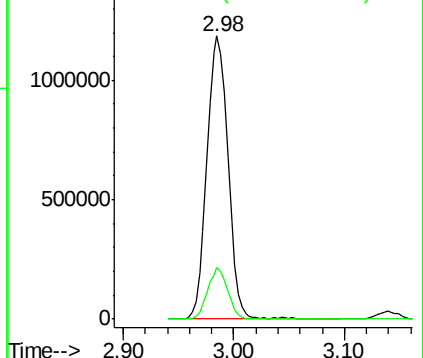
51 100

67 17.3 13.3 19.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 15.248 ppbv

RT: 3.14 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034092.D

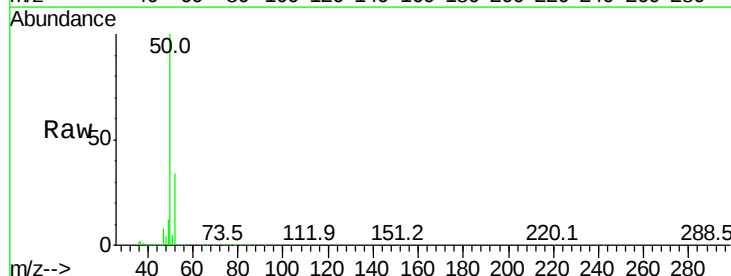
Acq: 5 Aug 2019 16:34

Tgt Ion: 50 Resp: 1050352

Ion Ratio Lower Upper

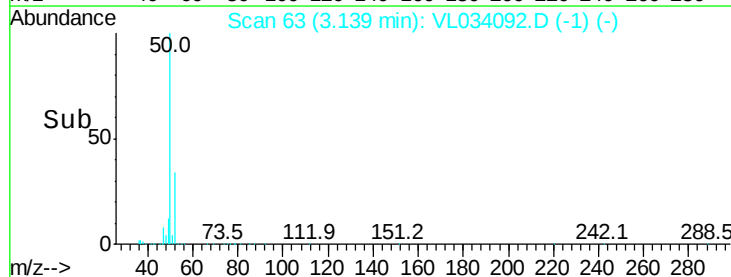
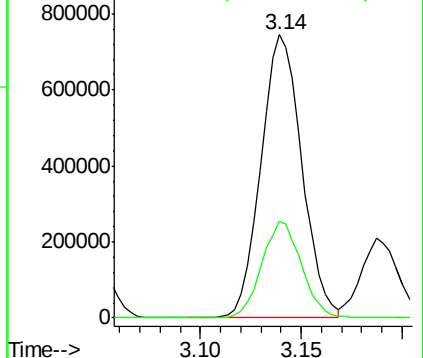
50 100

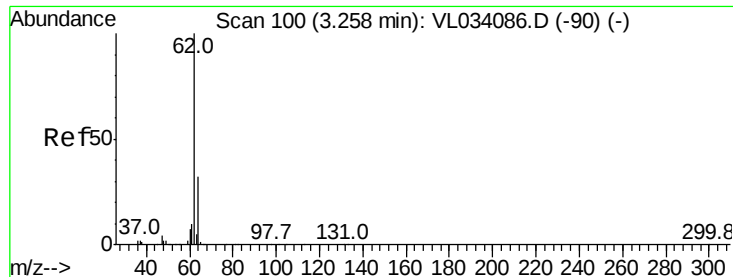
52 34.3 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.833 ppbv

RT: 3.26 min Scan# 100

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

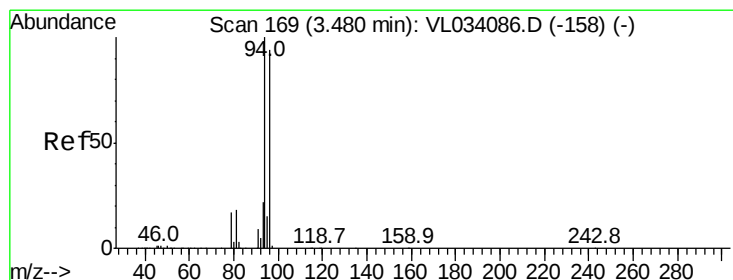
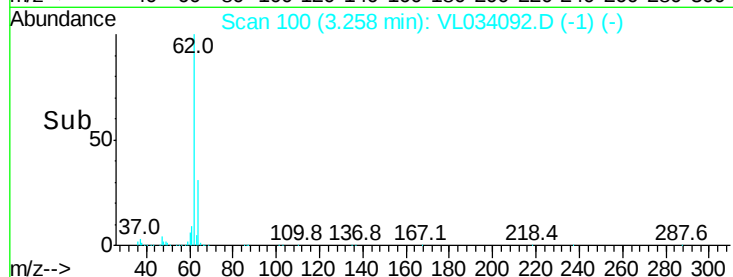
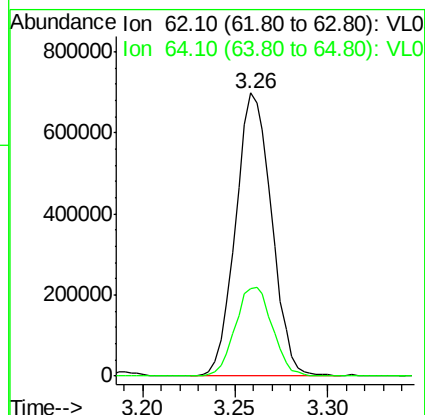
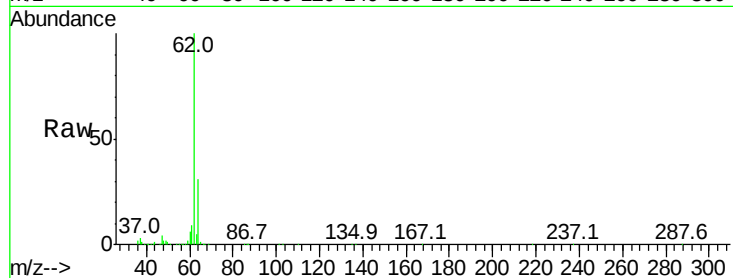
VSTDIC015

Tgt Ion: 62 Resp: 943397

Ion Ratio Lower Upper

62 100

64 30.8 25.8 38.6



#6

Bromomethane

Concen: 9.771 ppbv

RT: 3.48 min Scan# 169

Delta R.T. -0.00 min

Lab File: VL034092.D

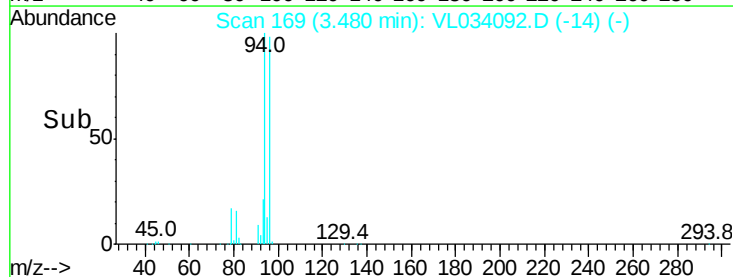
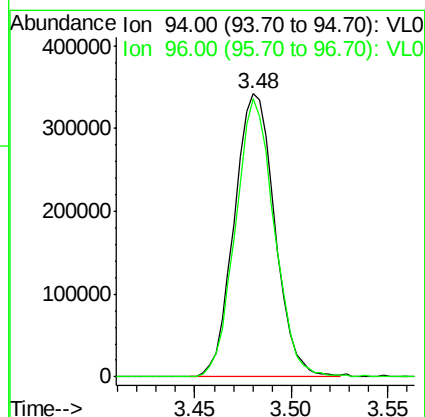
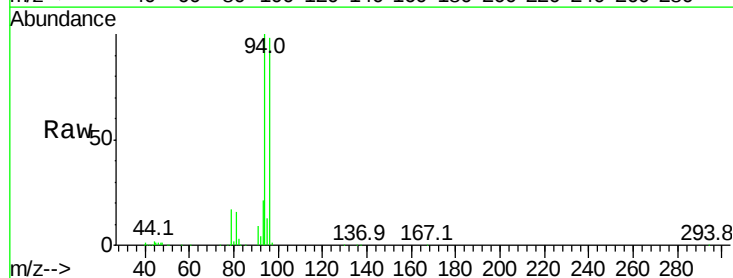
Acq: 5 Aug 2019 16:34

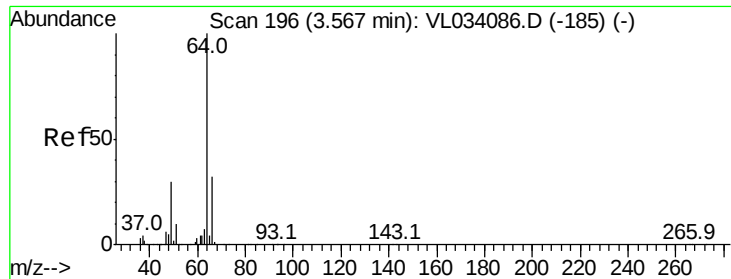
Tgt Ion: 94 Resp: 498265

Ion Ratio Lower Upper

94 100

96 98.1 75.3 112.9





#7

Chloroethane

Concen: 10.595 ppbv

RT: 3.56 min Scan# 195

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

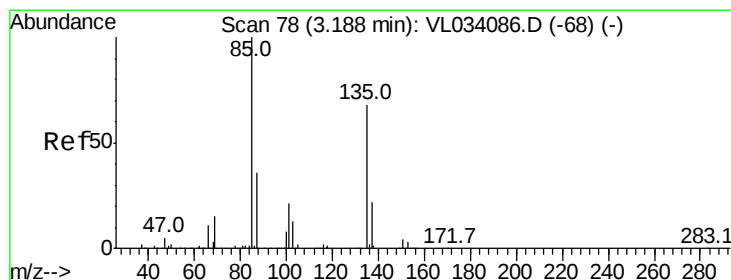
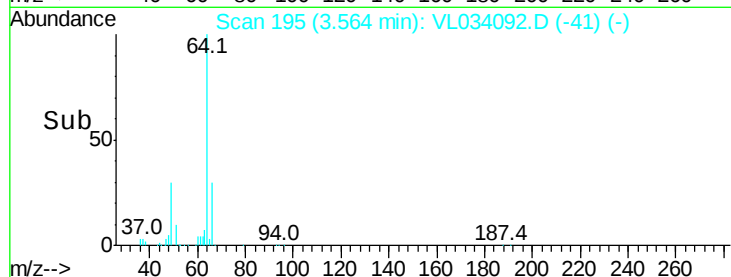
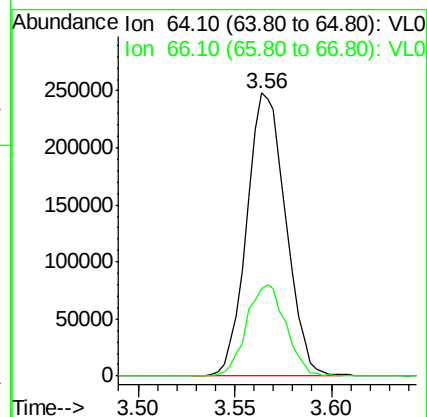
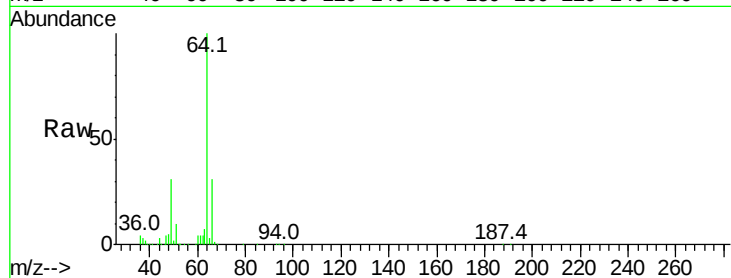
VSTDIC015

Tgt Ion: 64 Resp: 348642

Ion Ratio Lower Upper

64 100

66 31.0 25.2 37.8



#8

Dichlorotetrafluoroethane

Concen: 9.663 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL034092.D

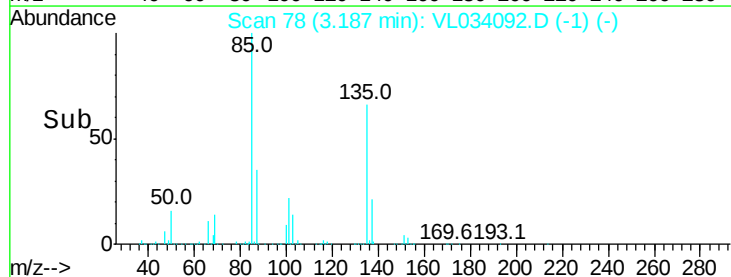
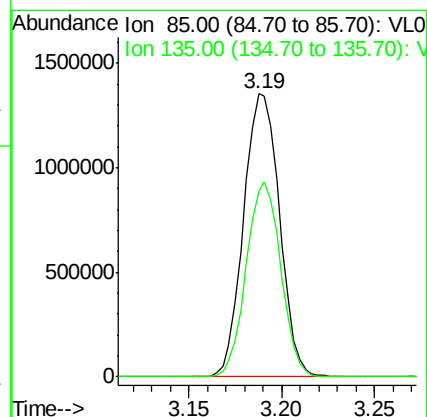
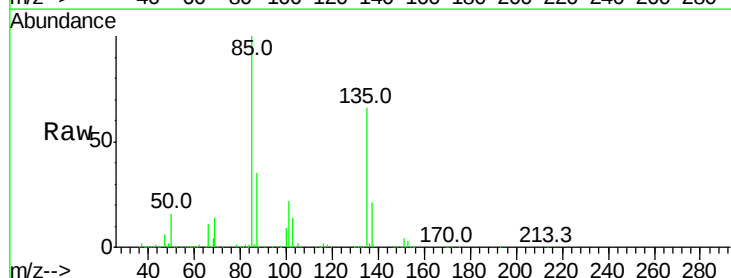
Acq: 5 Aug 2019 16:34

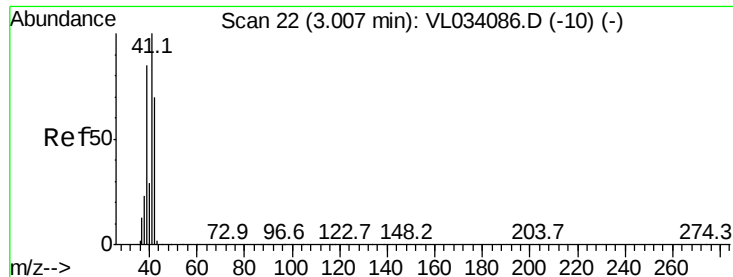
Tgt Ion: 85 Resp: 1825685

Ion Ratio Lower Upper

85 100

135 66.4 54.0 81.0





#9

Propene

Concen: 20.333 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

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ClientSampleId :

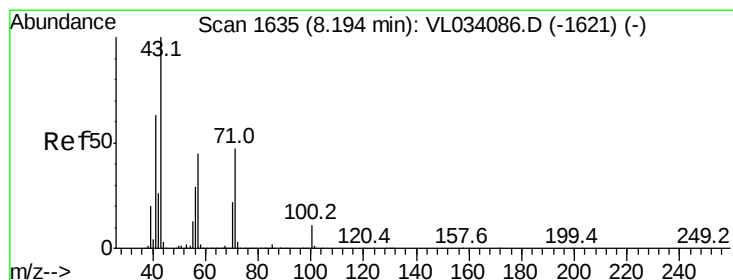
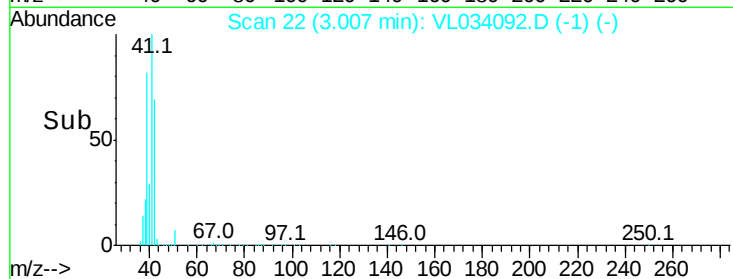
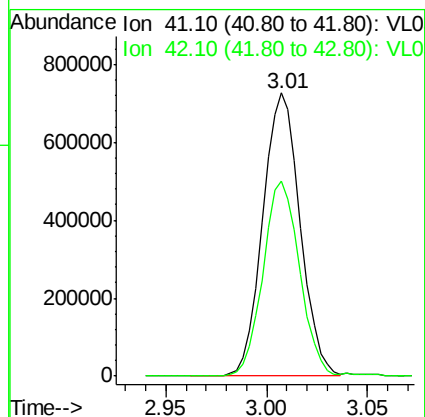
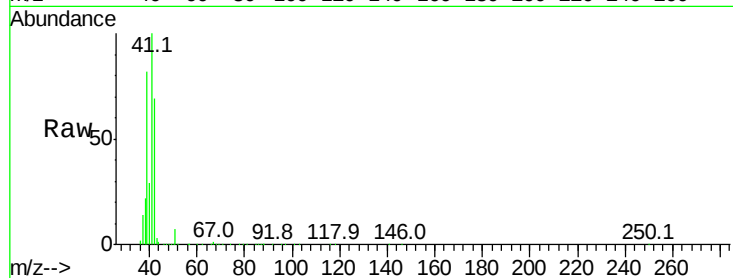
VSTDIC015

Tgt Ion: 41 Resp: 936949

Ion Ratio Lower Upper

41 100

42 68.5 55.8 83.6



#10

Heptane

Concen: 18.519 ppbv

RT: 8.20 min Scan# 1636

Delta R.T. 0.00 min

Lab File: VL034092.D

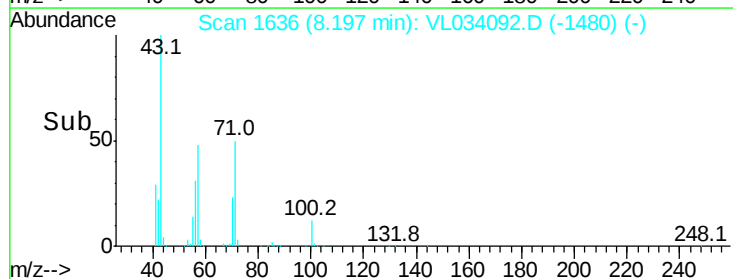
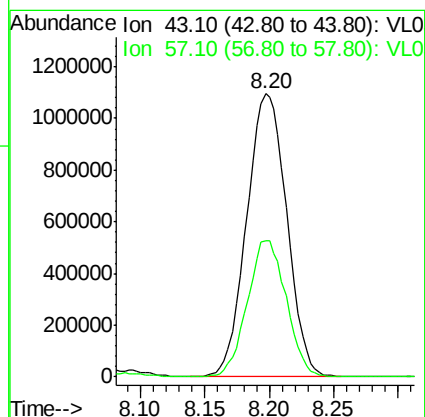
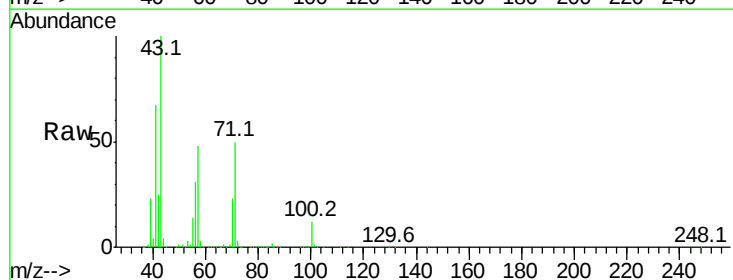
Acq: 5 Aug 2019 16:34

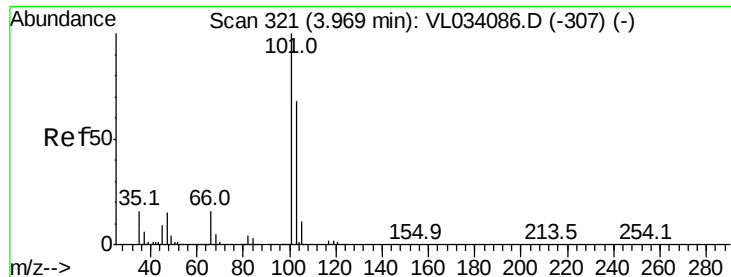
Tgt Ion: 43 Resp: 2363100

Ion Ratio Lower Upper

43 100

57 47.1 37.2 55.8

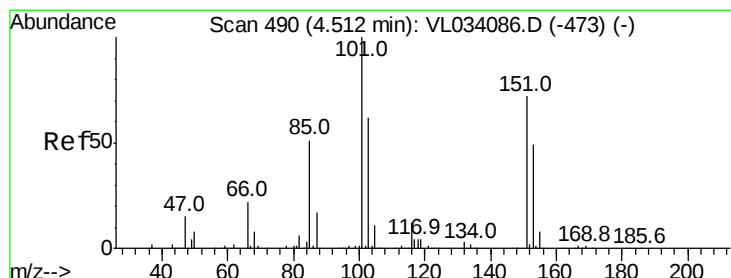
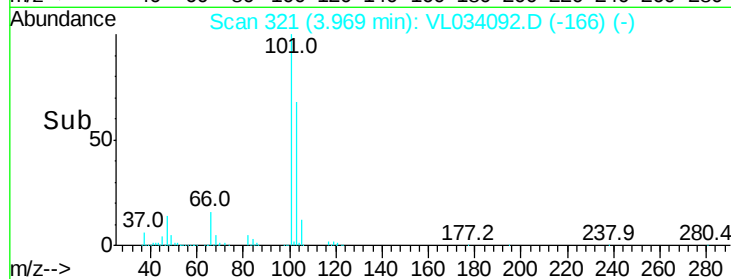
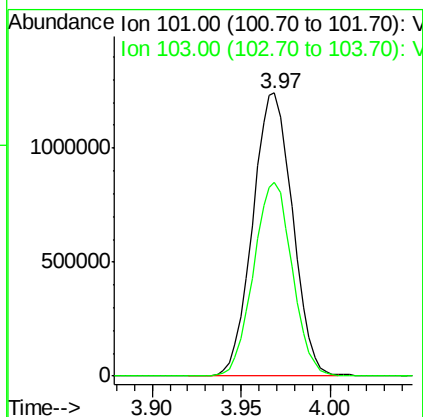
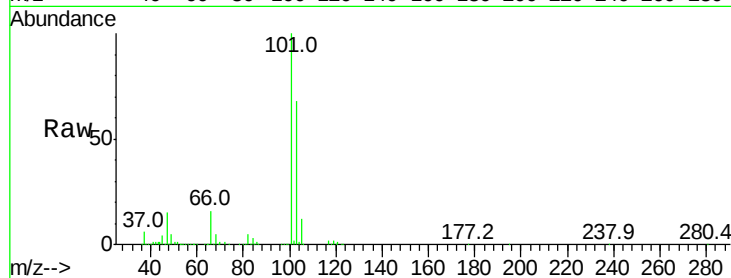




#11
 Trichlorofluoromethane
 Concen: 10.030 ppbv
 RT: 3.97 min Scan# 321
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

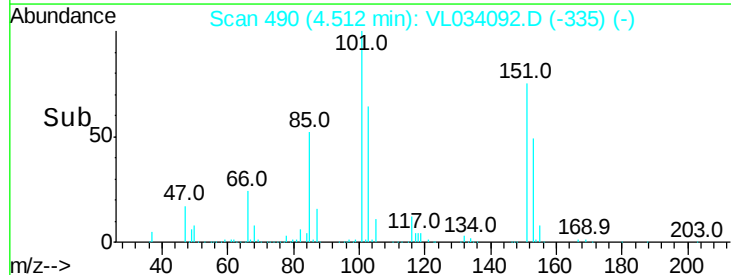
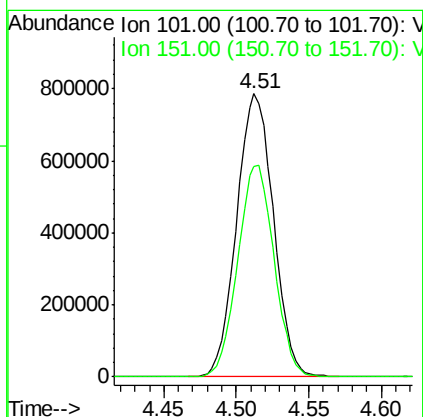
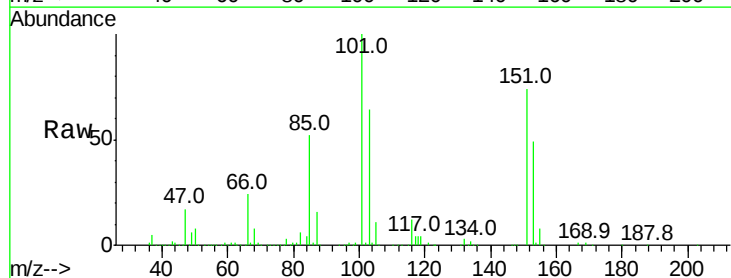
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

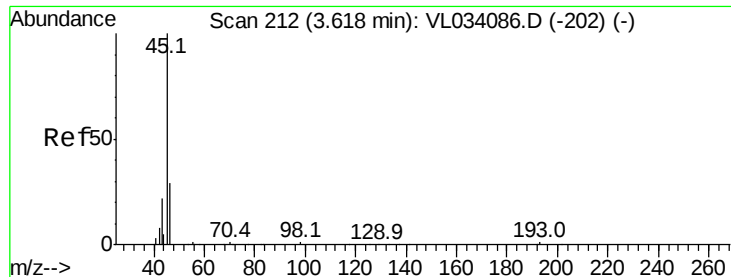
Tgt Ion:101 Resp: 1940874
 Ion Ratio Lower Upper
 101 100
 103 68.4 54.3 81.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.415 ppbv
 RT: 4.51 min Scan# 490
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion:101 Resp: 1386931
 Ion Ratio Lower Upper
 101 100
 151 74.0 59.4 89.0





#13

Ethanol

Concen: 9.435 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

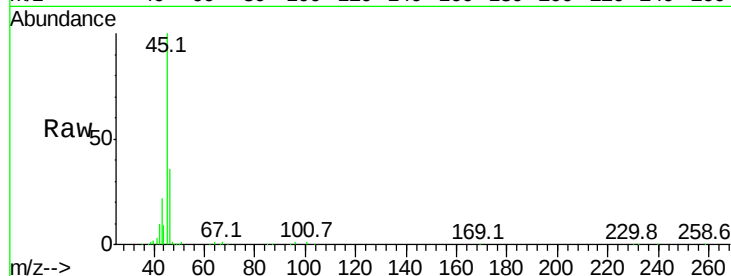
VSTDIC015

Tgt Ion: 45 Resp: 176229

Ion Ratio Lower Upper

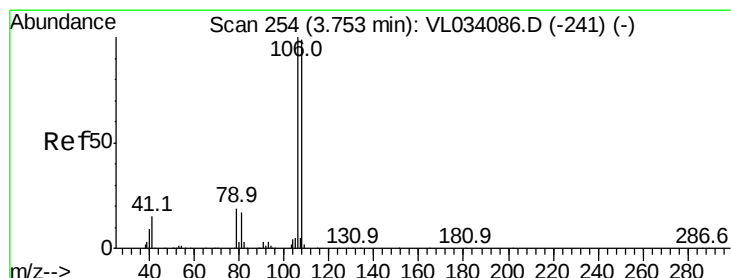
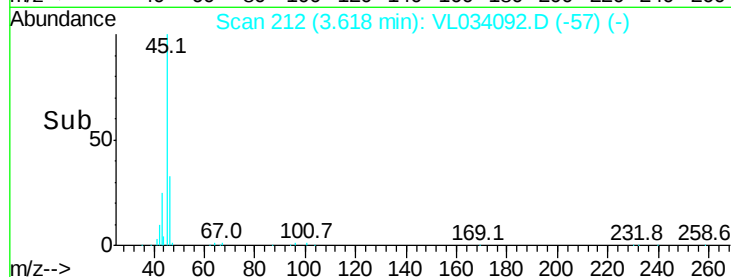
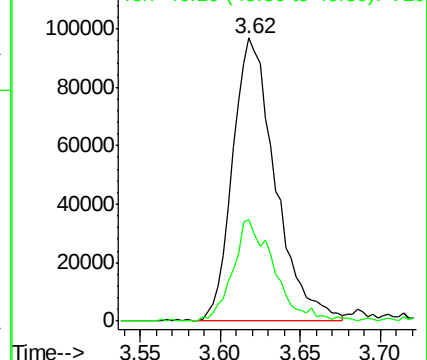
45 100

46 35.6 14.9 59.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 7.954 ppbv

RT: 3.75 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

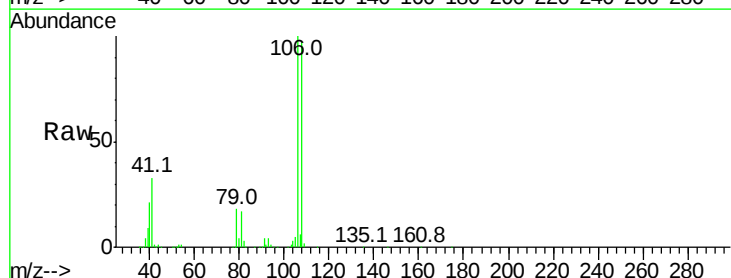
Tgt Ion: 108 Resp: 656309

Ion Ratio Lower Upper

108 100

106 106.4 85.0 127.6

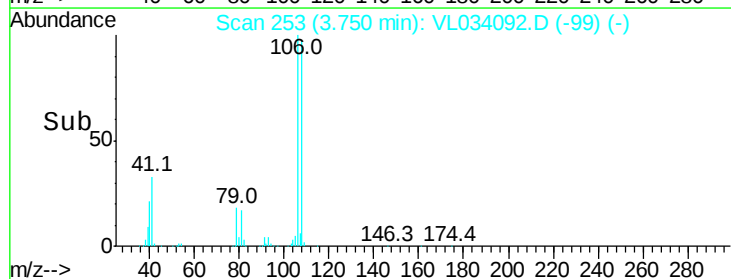
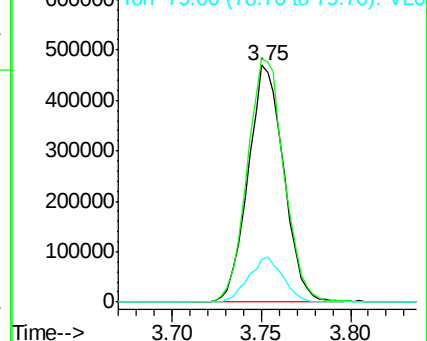
79 18.7 15.8 23.8

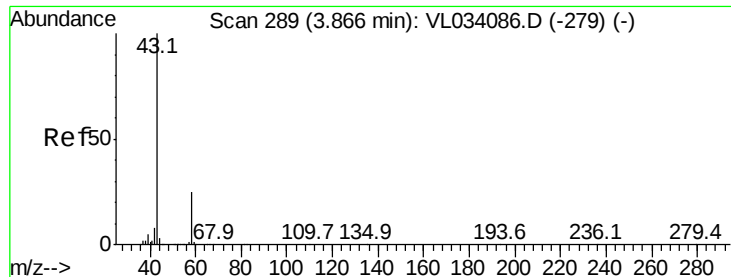


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 10.390 ppbv

RT: 3.87 min Scan# 289

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

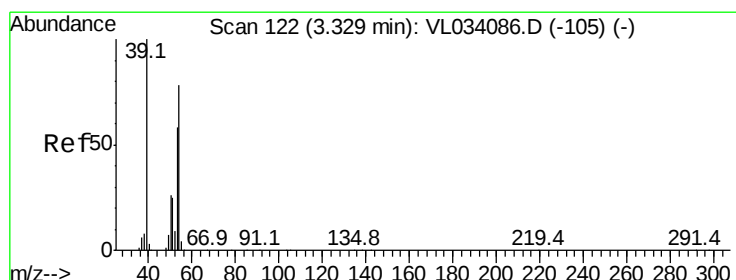
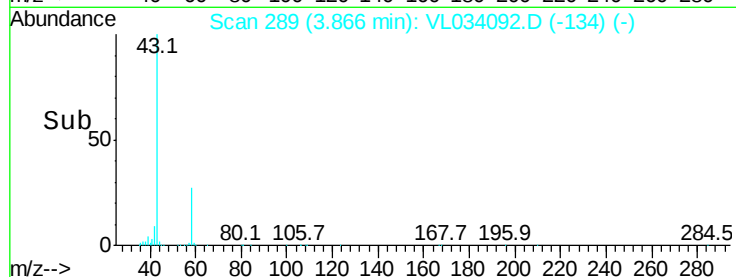
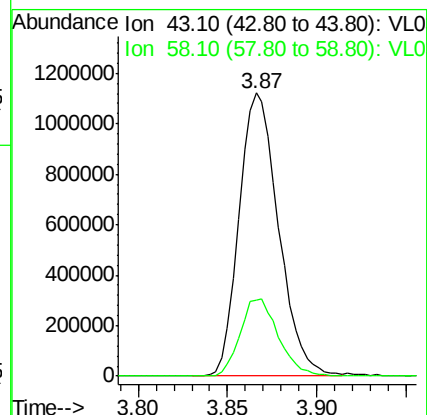
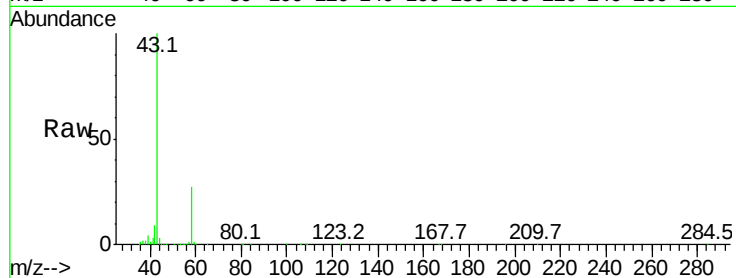
VSTDIC015

Tgt Ion: 43 Resp: 1731417

Ion Ratio Lower Upper

43 100

58 26.7 20.6 30.8



#16

1,3-Butadiene

Concen: 15.844 ppbv

RT: 3.33 min Scan# 123

Delta R.T. 0.00 min

Lab File: VL034092.D

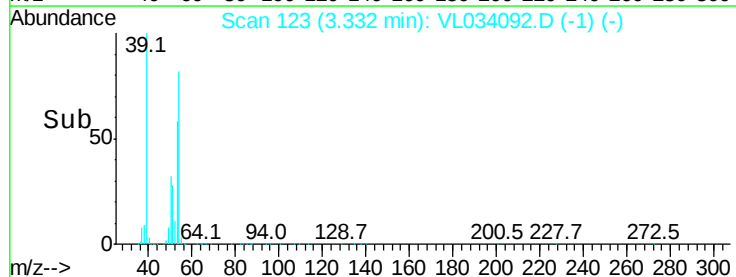
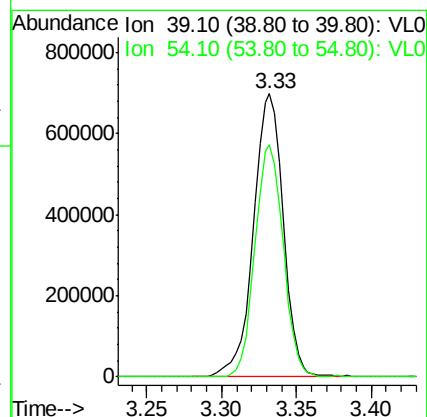
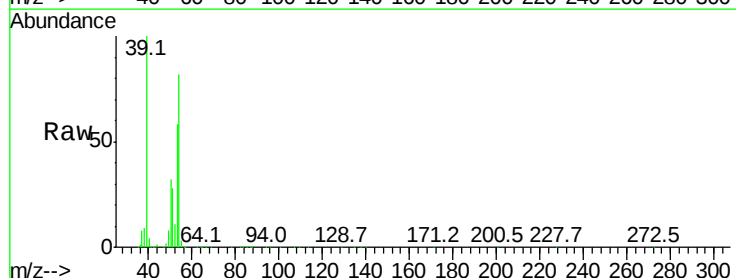
Acq: 5 Aug 2019 16:34

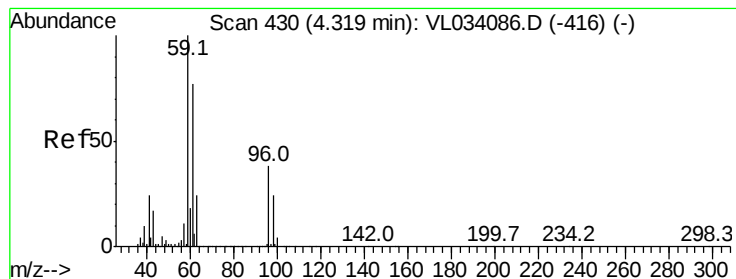
Tgt Ion: 39 Resp: 966079

Ion Ratio Lower Upper

39 100

54 78.4 62.7 94.1





#17

tert-Butyl alcohol

Concen: 13.518 ppbv

RT: 4.32 min Scan# 430

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

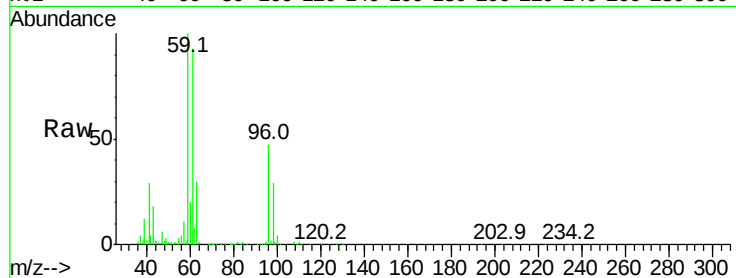
VSTDIC015

Tgt Ion: 59 Resp: 1635504

Ion Ratio Lower Upper

59 100

57 10.8 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.32

800000

600000

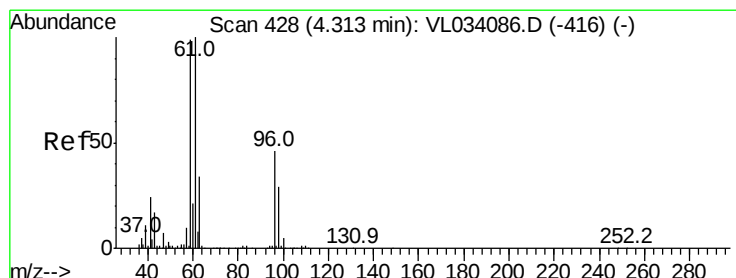
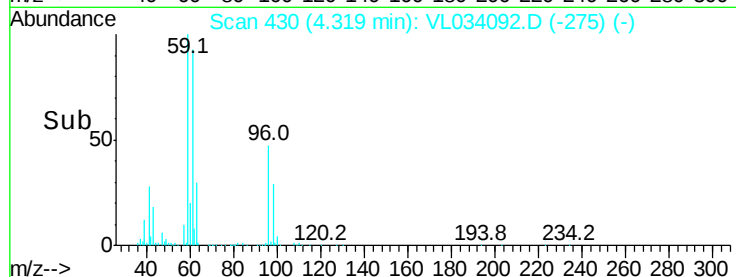
400000

200000

0

4.25 4.30 4.35 4.40

Time-->



#18

1,1-Dichloroethene

Concen: 10.389 ppbv

RT: 4.32 min Scan# 429

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

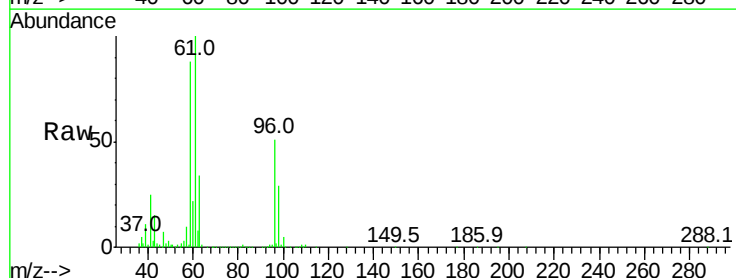
Tgt Ion: 96 Resp: 670024

Ion Ratio Lower Upper

96 100

61 197.5 173.1 259.7

98 58.1 50.3 75.5



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

1200000

1000000

800000

600000

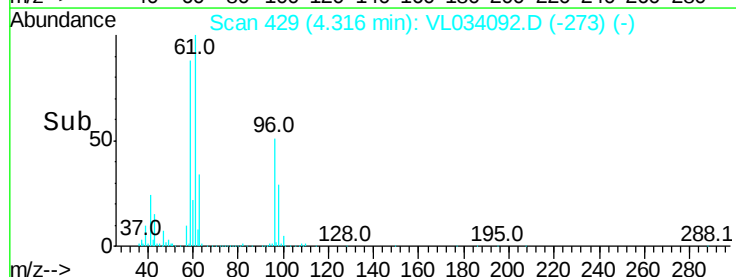
400000

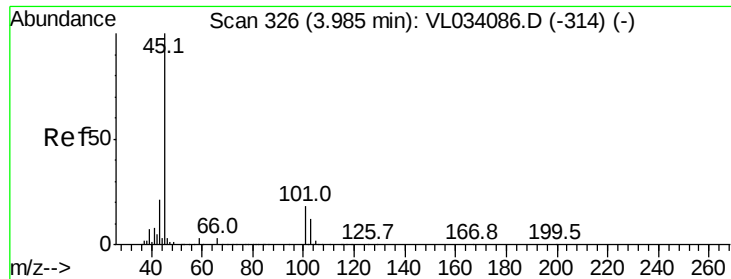
200000

0

4.25 4.30 4.35

Time-->



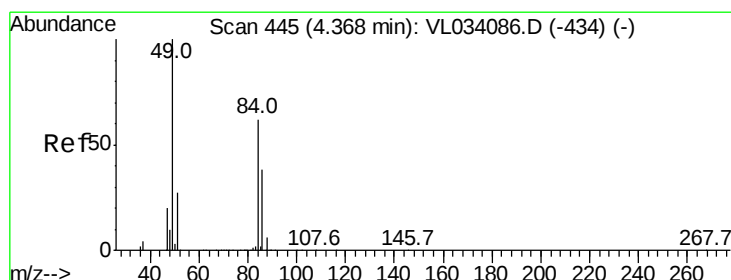
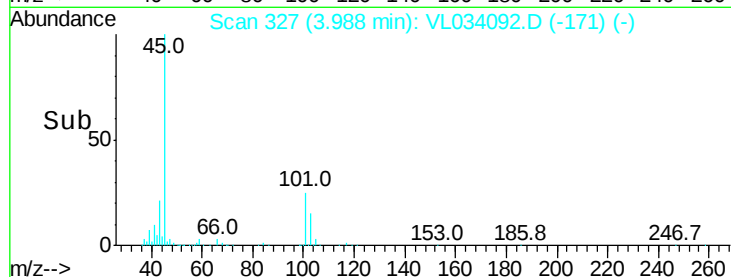
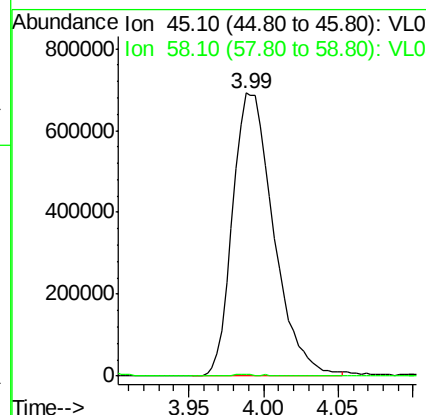
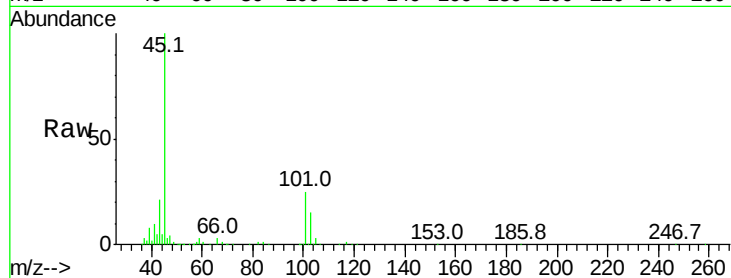


#19

Isopropyl Alcohol
 Concen: 12.874 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

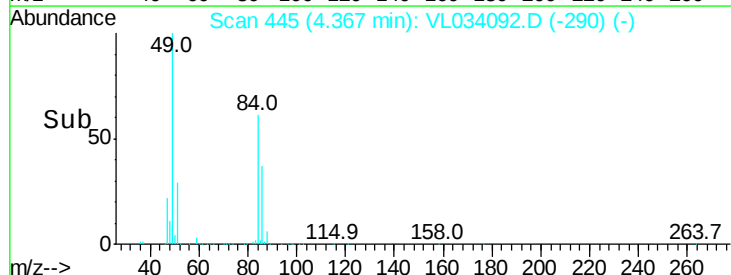
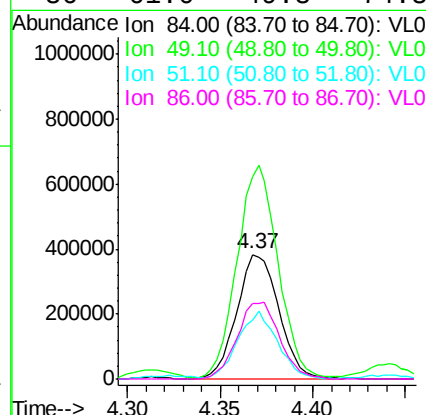
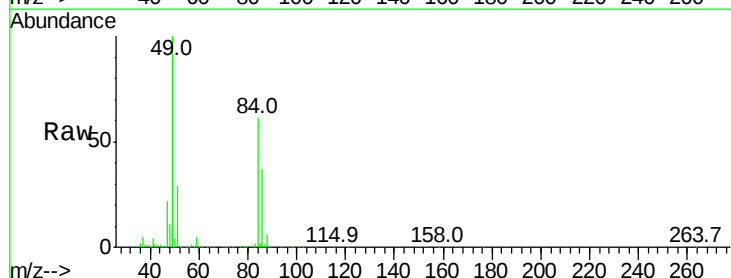
Tgt Ion: 45 Resp: 1324072
 Ion Ratio Lower Upper
 45 100
 58 34.9 24.6 37.0

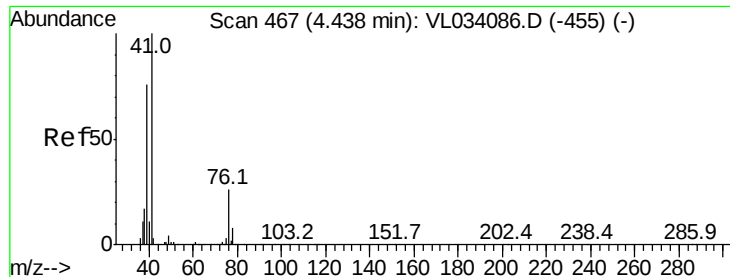


#20

Methylene Chloride
 Concen: 10.008 ppbv
 RT: 4.37 min Scan# 445
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion: 84 Resp: 600738
 Ion Ratio Lower Upper
 84 100
 49 162.1 129.7 194.5
 51 47.3 35.8 53.8
 86 61.0 49.8 74.8





#21

Allyl Chloride

Concen: 13.658 ppbv

RT: 4.44 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

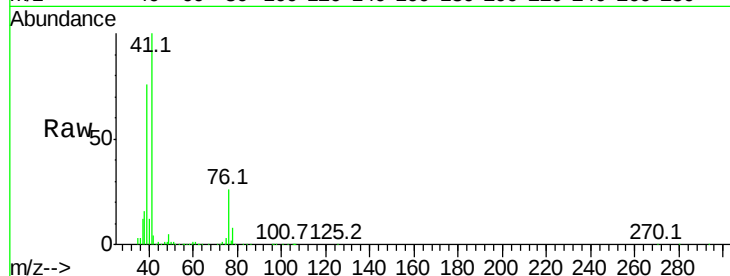
Tgt Ion: 41 Resp: 1379472

Ion Ratio Lower Upper

41 100

76 26.5 20.8 31.2

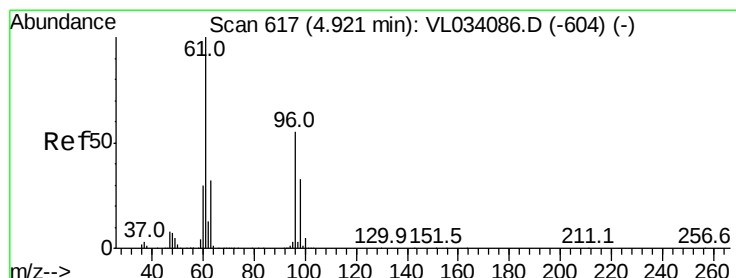
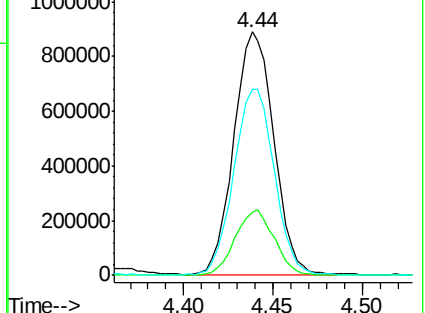
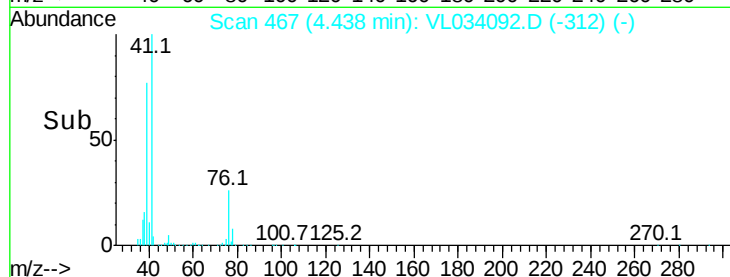
39 78.2 61.3 91.9



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: 10.521 ppbv

RT: 4.92 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

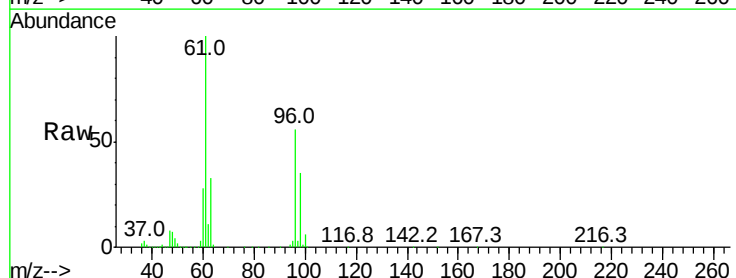
Tgt Ion: 96 Resp: 691439

Ion Ratio Lower Upper

96 100

61 177.0 144.2 216.2

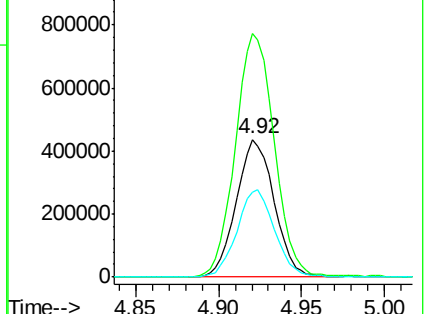
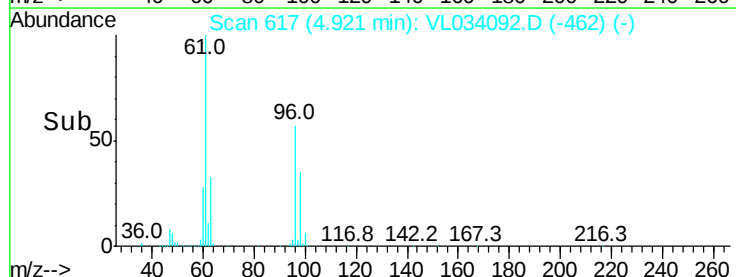
98 61.8 48.0 72.0

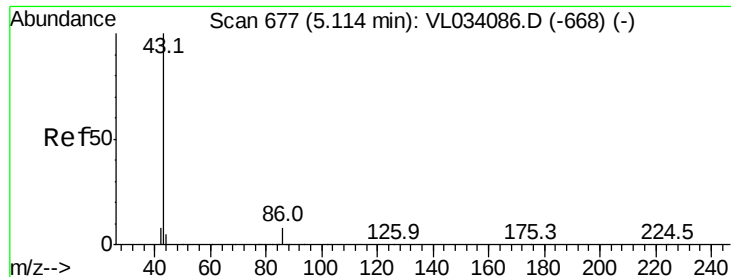


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 18.084 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3105412

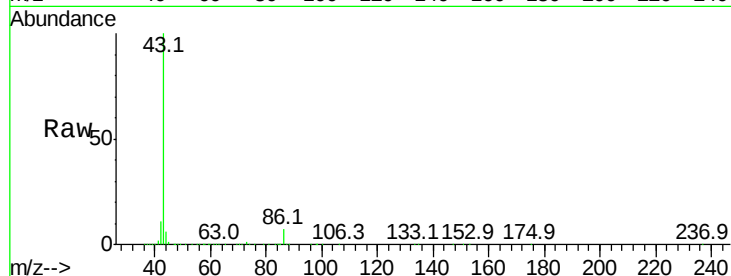
Ion Ratio Lower Upper

43 100

86 7.5 5.4 8.0

42 11.0 7.9 11.9

44 5.5 4.0 6.0

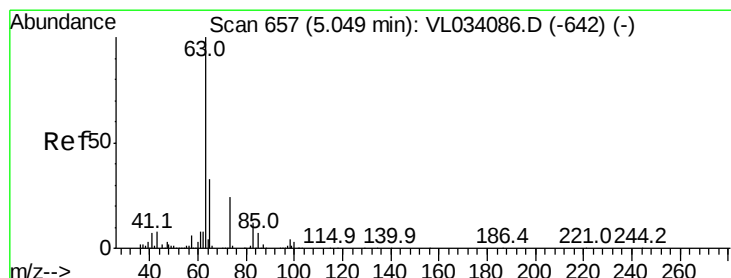
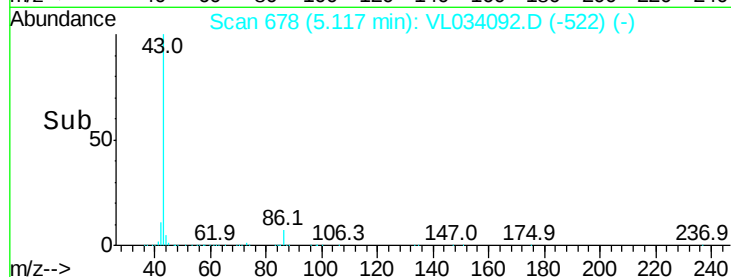
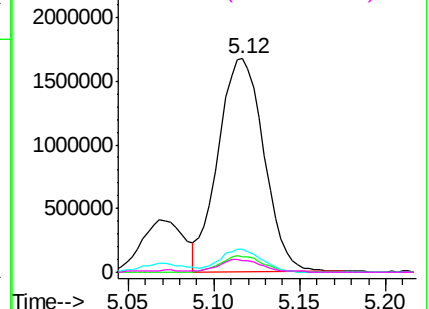


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 13.019 ppbv

RT: 5.05 min Scan# 658

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

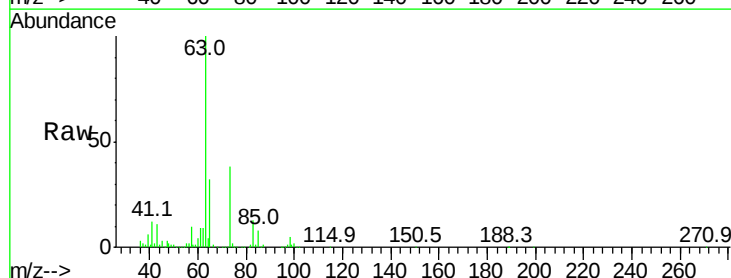
Tgt Ion: 63 Resp: 1877449

Ion Ratio Lower Upper

63 100

98 4.5 2.0 6.0

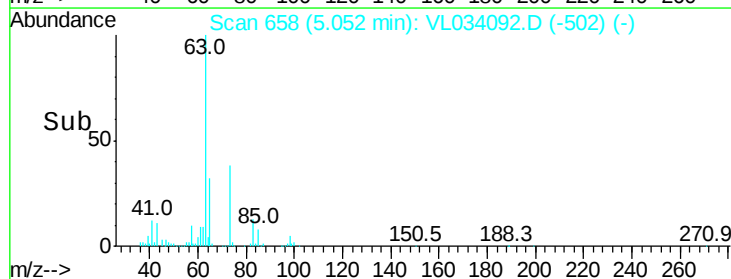
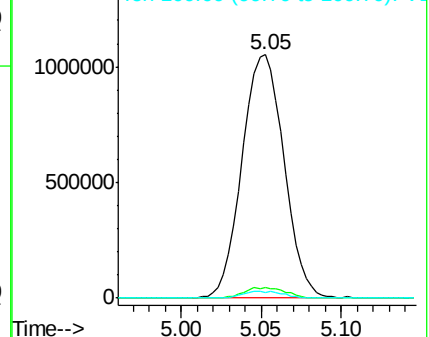
100 2.5 1.3 3.8

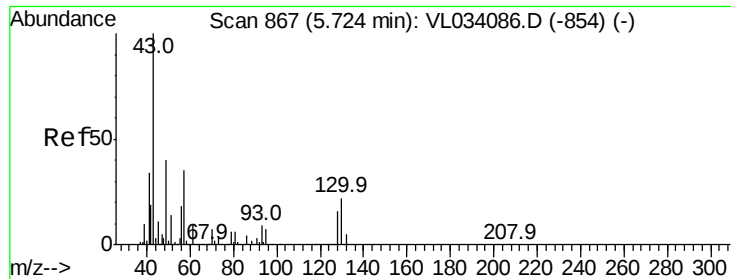


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



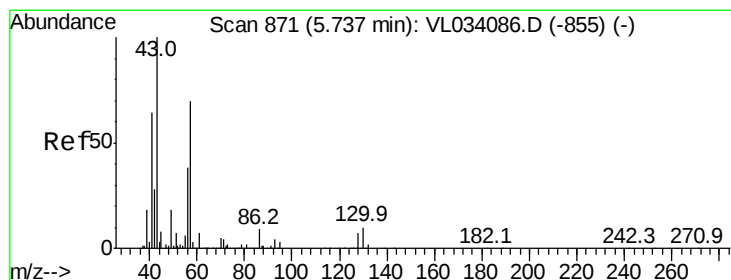
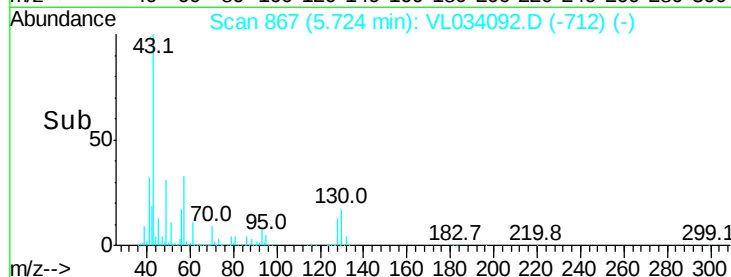
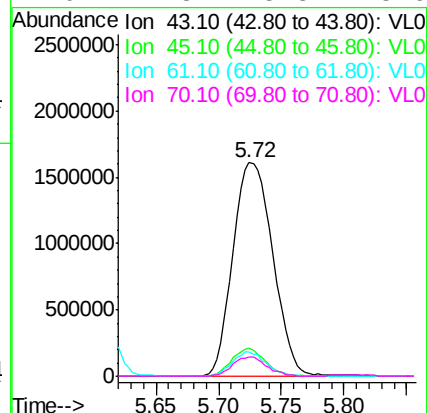
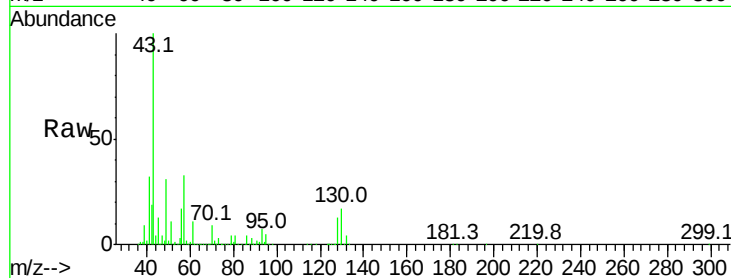


#25
Ethyl Acetate
Concen: 14.438 ppbv
RT: 5.72 min Scan# 867
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 3559478

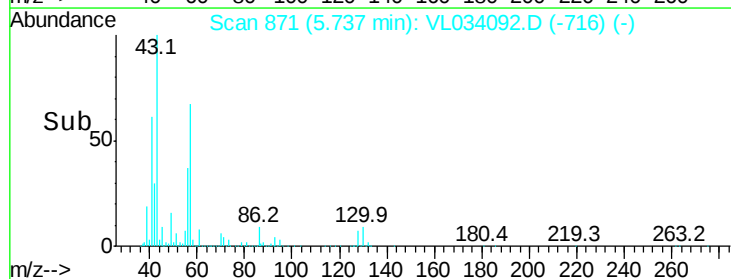
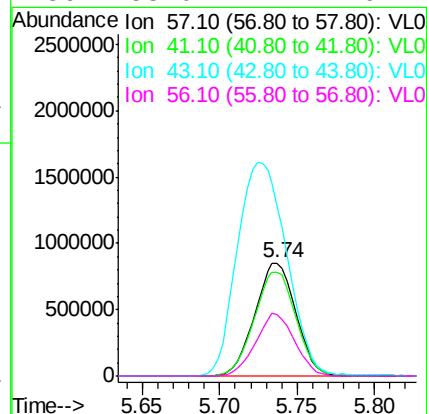
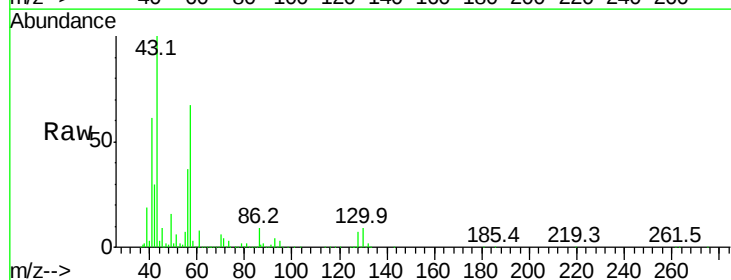
Ion	Ratio	Lower	Upper
43	100		
45	11.0	8.4	12.6
61	9.6	7.3	10.9
70	7.8	5.8	8.6

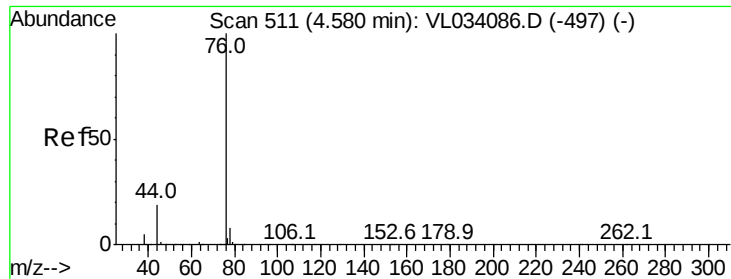


#26
Hexane
Concen: 14.062 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 57 Resp: 1569323

Ion	Ratio	Lower	Upper
57	100		
41	94.1	75.7	113.5
43	227.8	189.8	284.8
56	53.0	42.7	64.1





#27

Carbon Disulfide

Concen: 11.026 ppbv

RT: 4.58 min Scan# 511

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

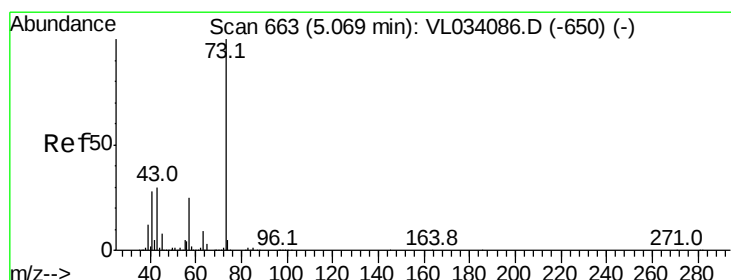
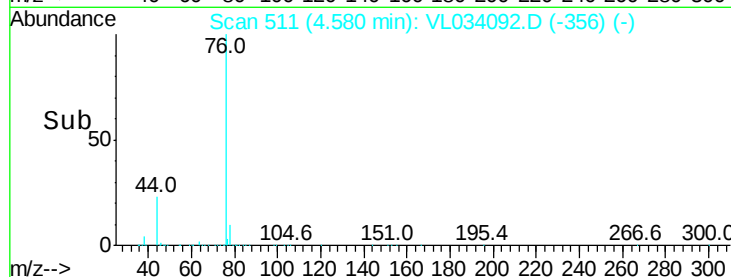
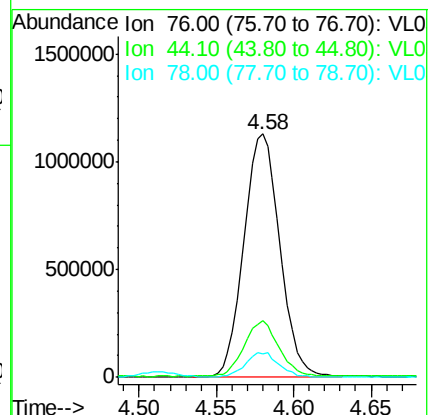
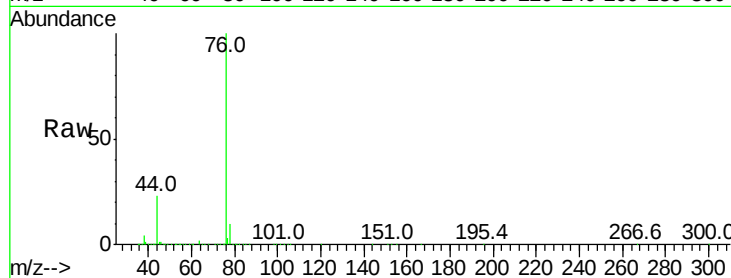
Tgt Ion: 76 Resp: 1832163

Ion Ratio Lower Upper

76 100

44 22.1 17.8 26.6

78 9.6 7.7 11.5



#28

Methyl tert-Butyl Ether

Concen: 15.636 ppbv

RT: 5.07 min Scan# 664

Delta R.T. 0.00 min

Lab File: VL034092.D

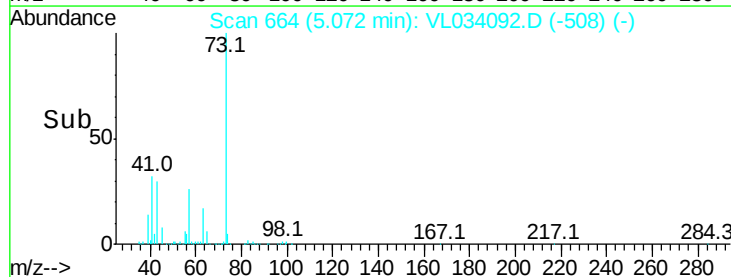
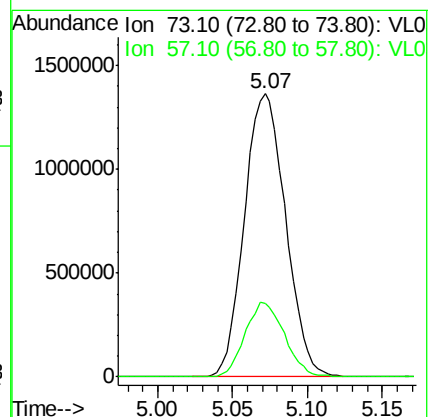
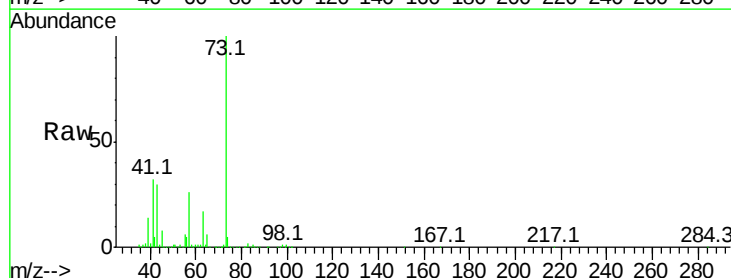
Acq: 5 Aug 2019 16:34

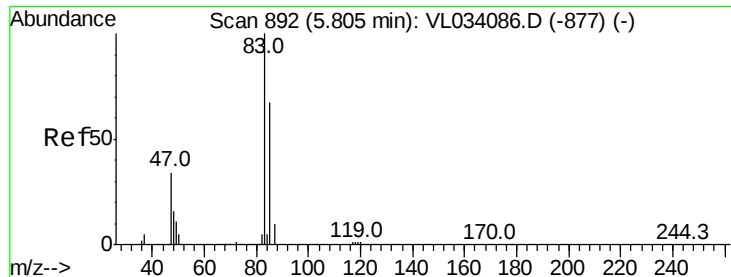
Tgt Ion: 73 Resp: 2619204

Ion Ratio Lower Upper

73 100

57 25.4 19.5 29.3





#29

Chloroform

Concen: 11.238 ppbv

RT: 5.81 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

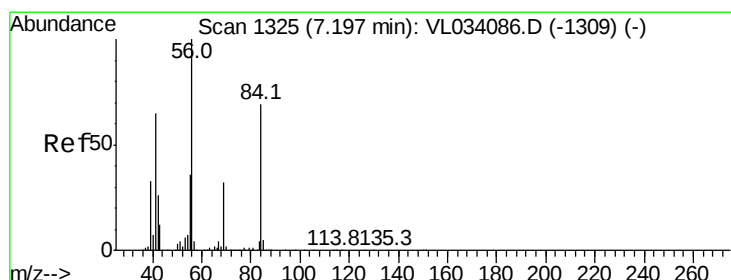
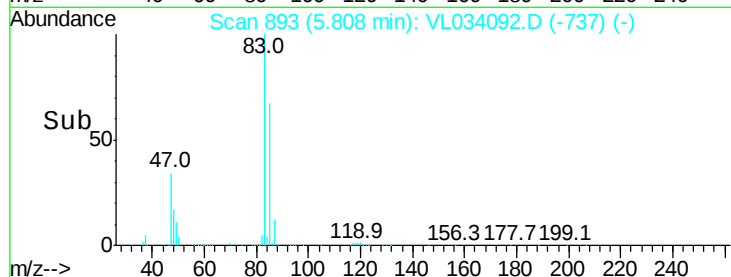
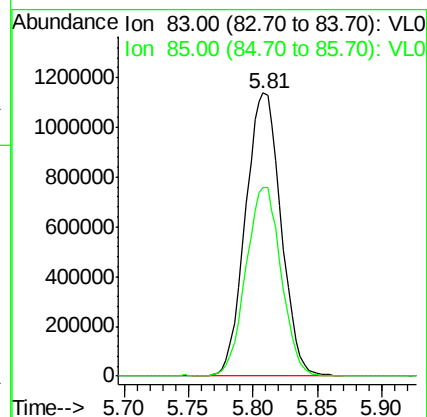
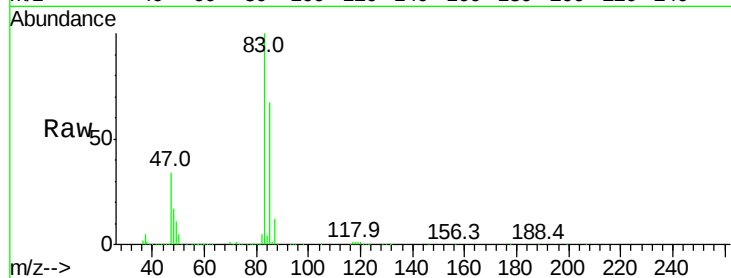
VSTDIC015

Tgt Ion: 83 Resp: 2182091

Ion Ratio Lower Upper

83 100

85 66.7 53.2 79.8



#30

Cyclohexane

Concen: 14.832 ppbv

RT: 7.20 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

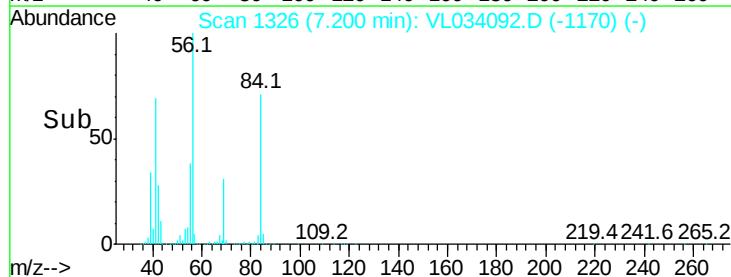
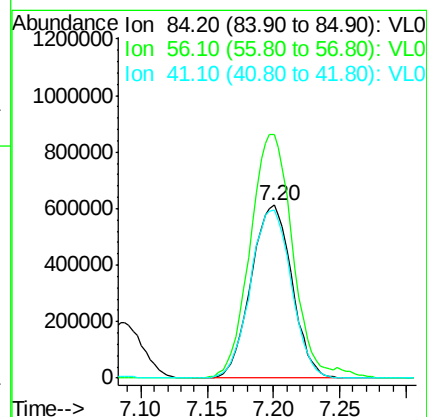
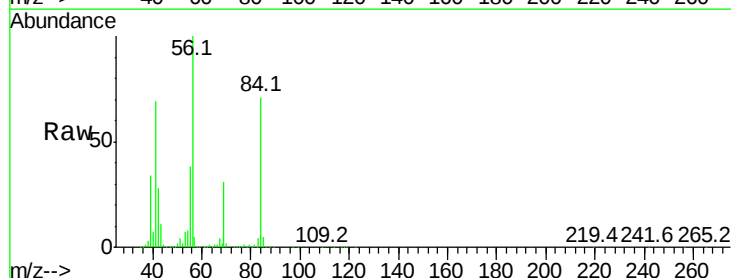
Tgt Ion: 84 Resp: 1320035

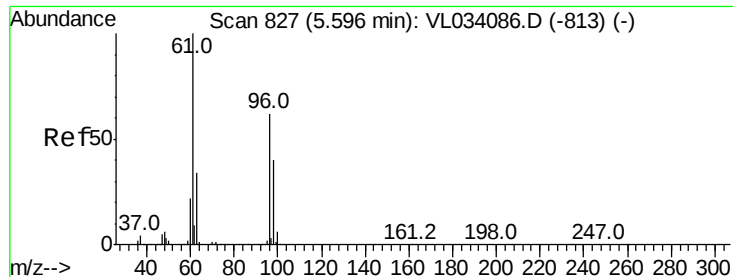
Ion Ratio Lower Upper

84 100

56 147.3 122.6 184.0

41 97.4 80.1 120.1



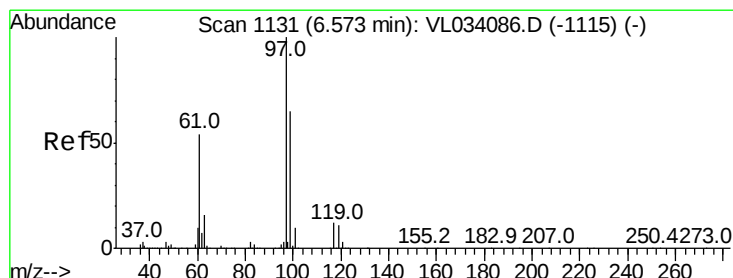
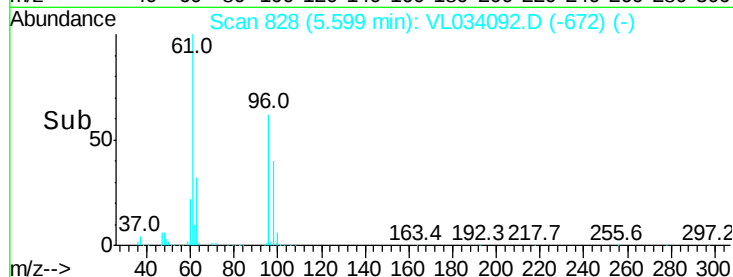
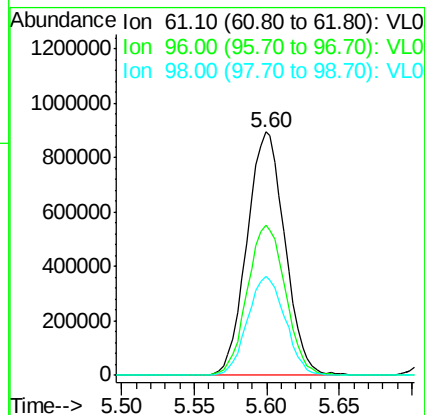
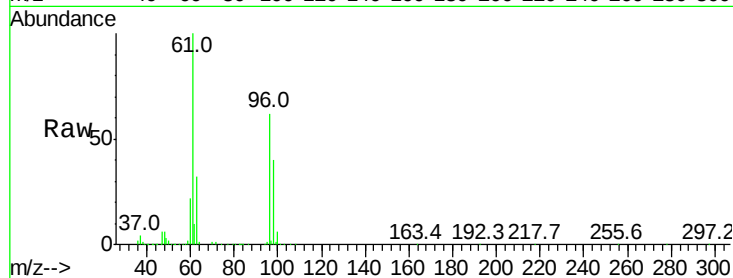


#31

cis-1,2-Dichloroethene
Concen: 14.894 ppbv
RT: 5.60 min Scan# 828
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

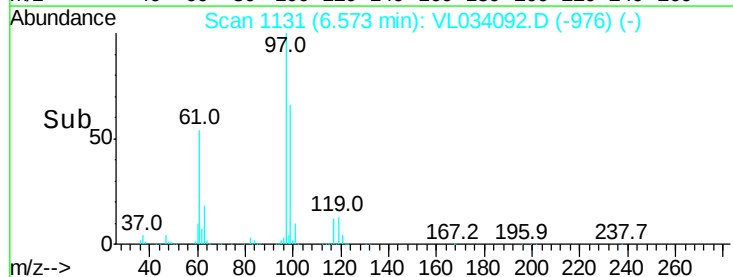
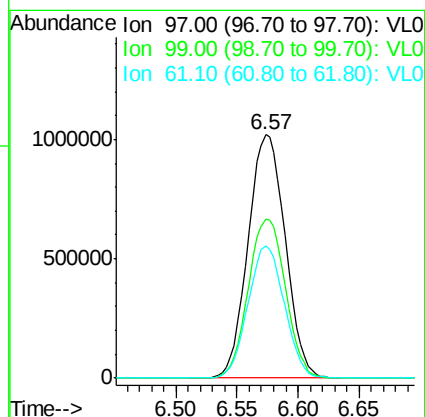
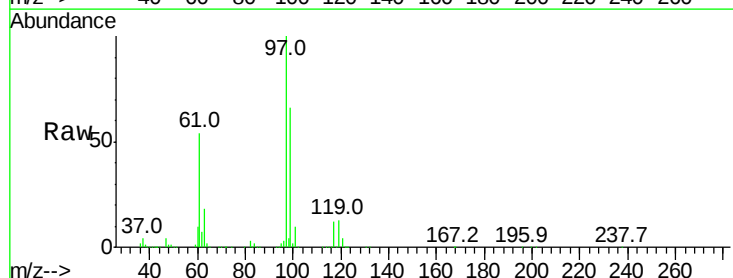
Tgt Ion: 61 Resp: 1630348
Ion Ratio Lower Upper
61 100
96 61.5 49.3 73.9
98 40.4 32.4 48.6

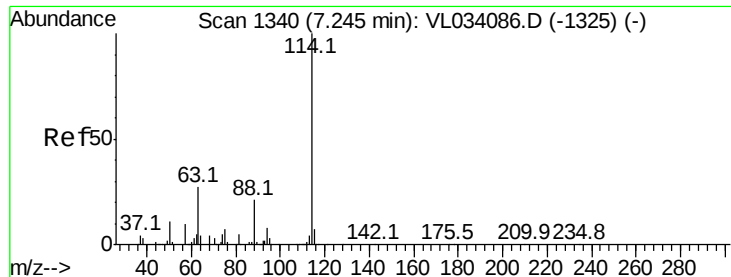


#32

1,1,1-Trichloroethane
Concen: 10.467 ppbv
RT: 6.57 min Scan# 1131
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 97 Resp: 2143025
Ion Ratio Lower Upper
97 100
99 65.6 52.2 78.4
61 53.3 42.0 63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

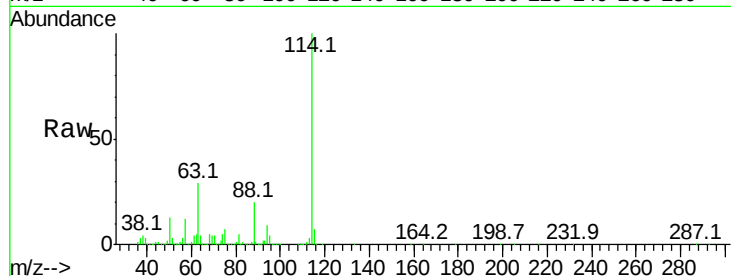
Tgt Ion:114 Resp: 2157366

Ion Ratio Lower Upper

114 100

63 29.2 22.5 33.7

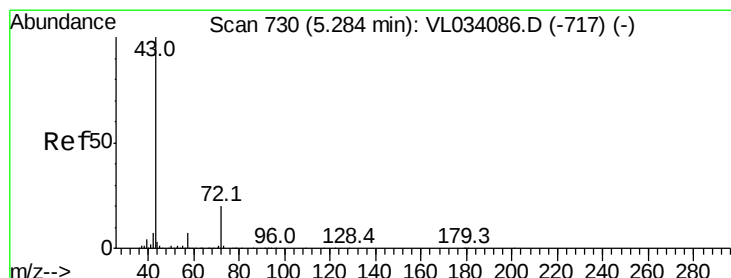
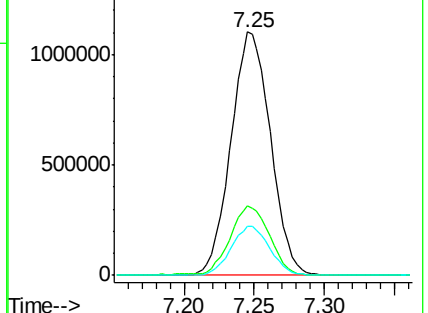
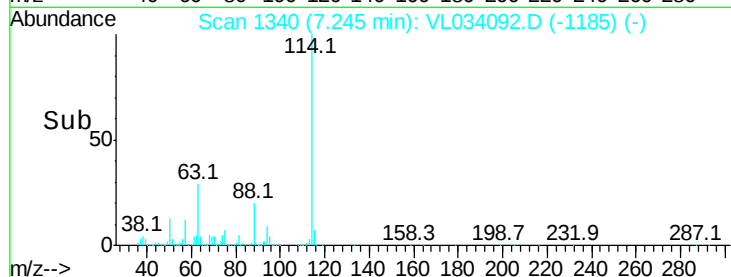
88 19.8 15.7 23.5



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 20.723 ppbv

RT: 5.29 min Scan# 731

Delta R.T. 0.00 min

Lab File: VL034092.D

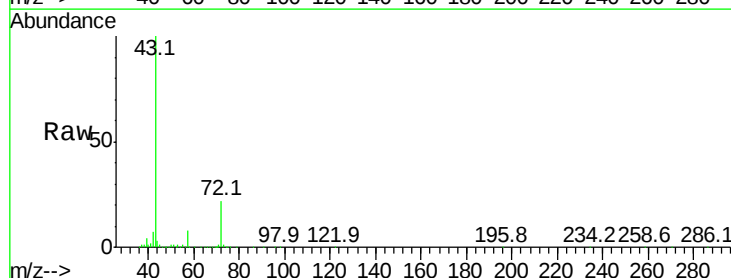
Acq: 5 Aug 2019 16:34

Tgt Ion: 43 Resp: 2560874

Ion Ratio Lower Upper

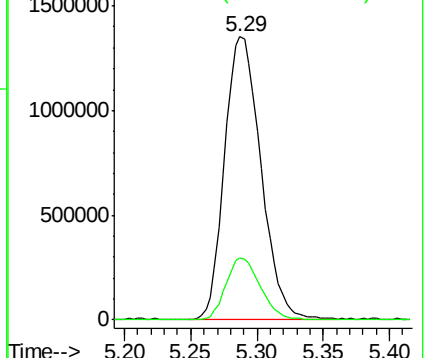
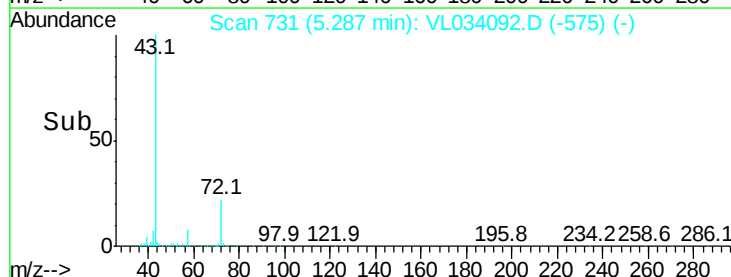
43 100

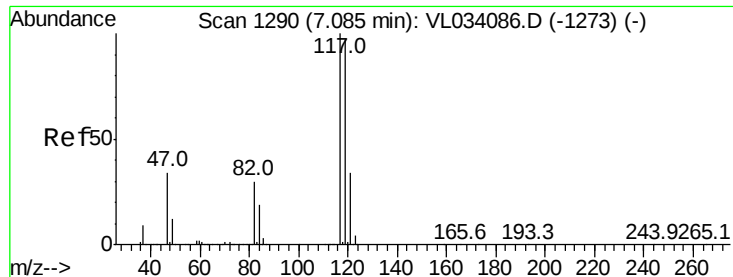
72 20.9 16.0 24.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

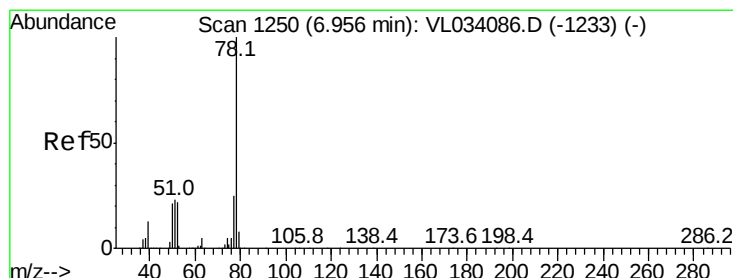
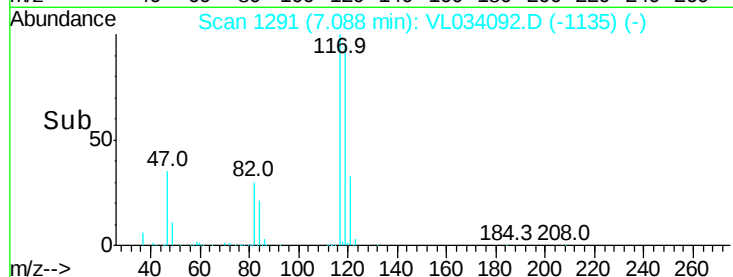
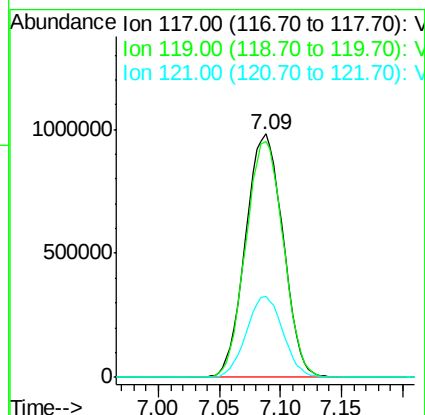
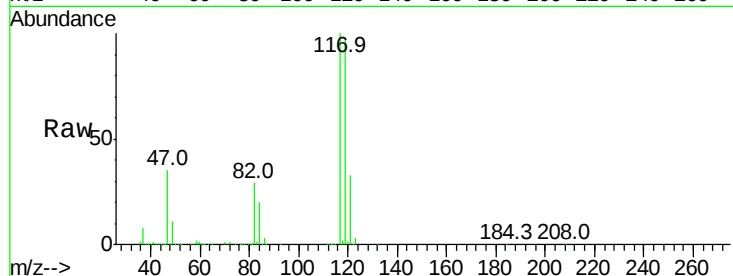




#35
Carbon Tetrachloride
Concen: 11.967 ppbv
RT: 7.09 min Scan# 1291
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

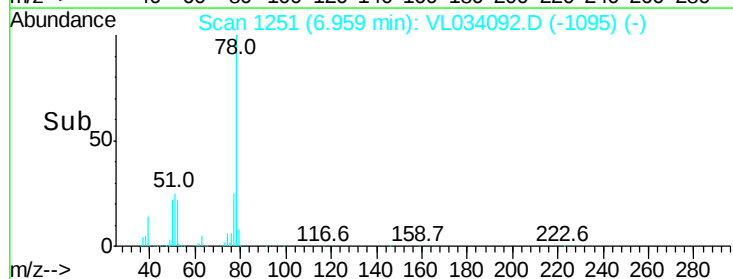
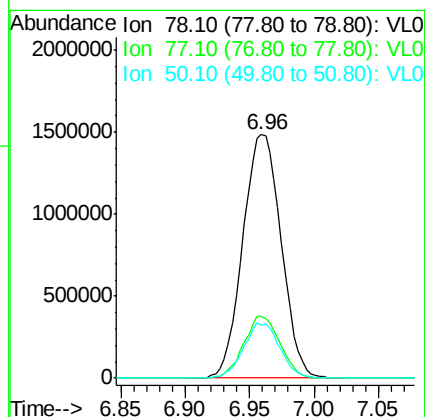
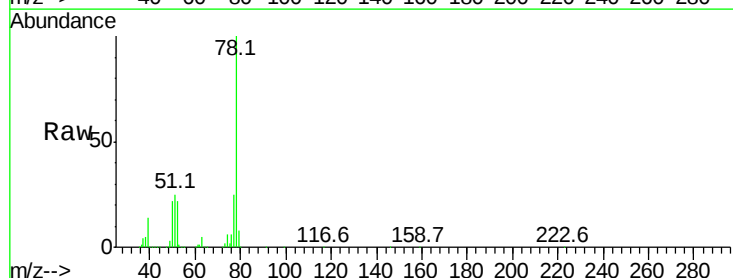
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

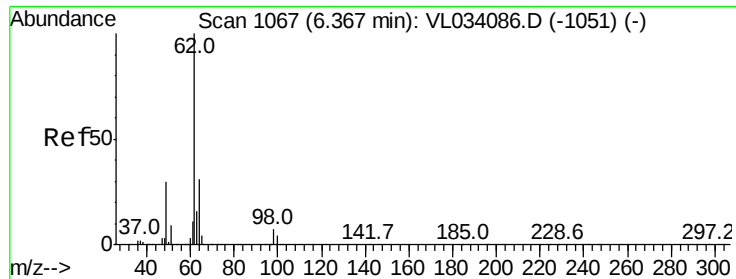
Tgt Ion:117 Resp: 2085828
Ion Ratio Lower Upper
117 100
119 96.7 77.8 116.6
121 33.2 27.4 41.2



#36
Benzene
Concen: 14.947 ppbv
RT: 6.96 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 78 Resp: 3073692
Ion Ratio Lower Upper
78 100
77 25.1 19.9 29.9
50 22.0 16.7 25.1





#37

1,2-Dichloroethane

Concen: 13.183 ppbv

RT: 6.37 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

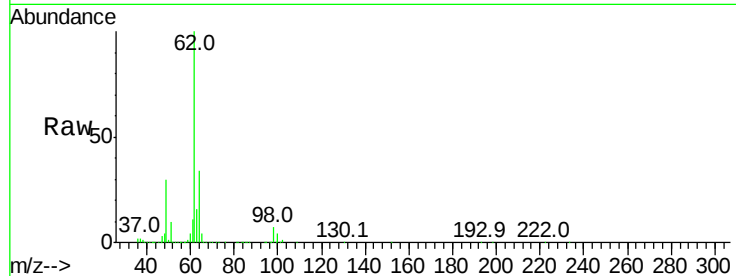
VSTDIC015

Tgt Ion: 62 Resp: 1768681

Ion Ratio Lower Upper

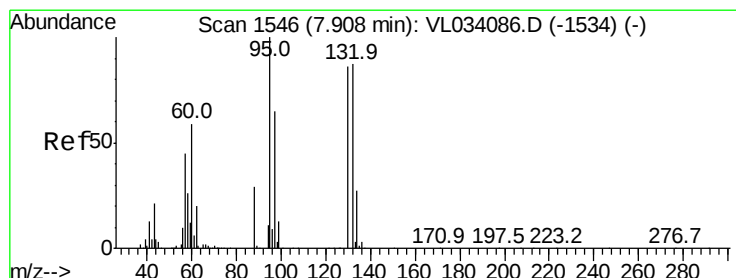
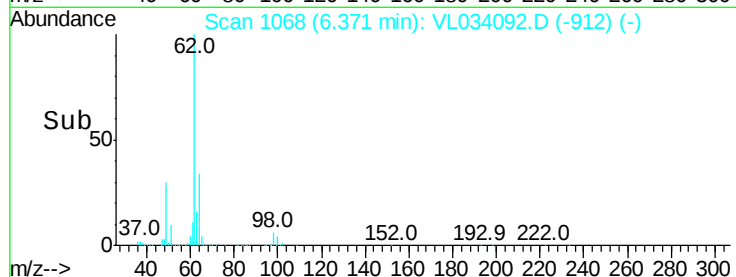
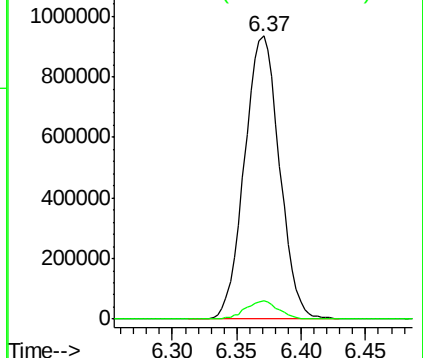
62 100

98 6.2 4.9 7.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 15.609 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Tgt Ion: 130 Resp: 1084369

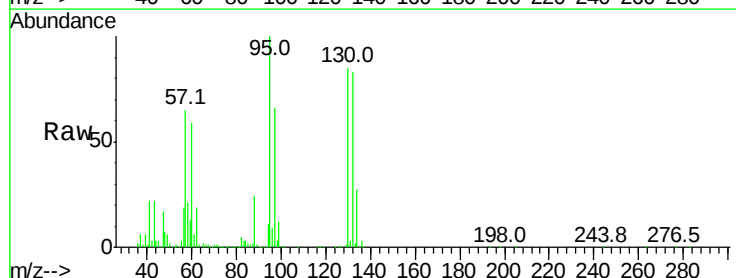
Ion Ratio Lower Upper

130 100

95 117.8 92.1 138.1

132 98.1 79.7 119.5

97 77.4 60.2 90.4

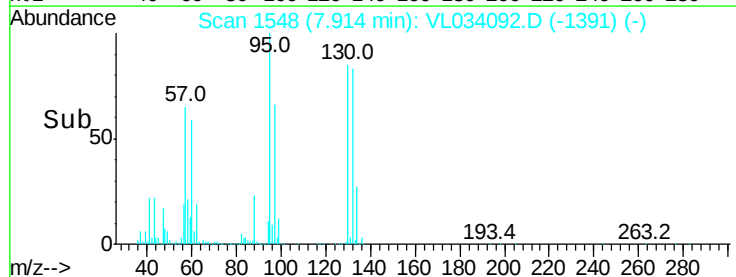
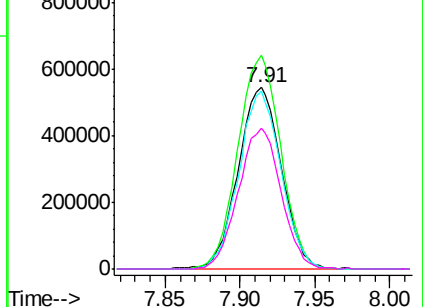


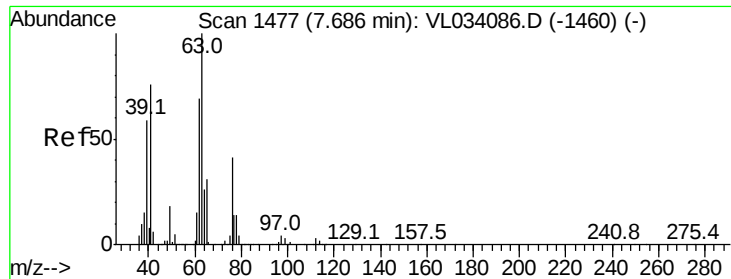
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 17.576 ppbv

RT: 7.69 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

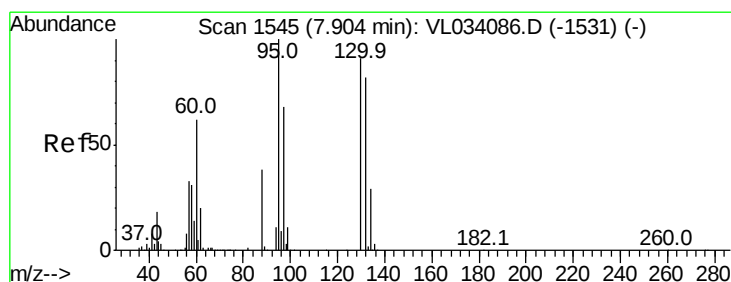
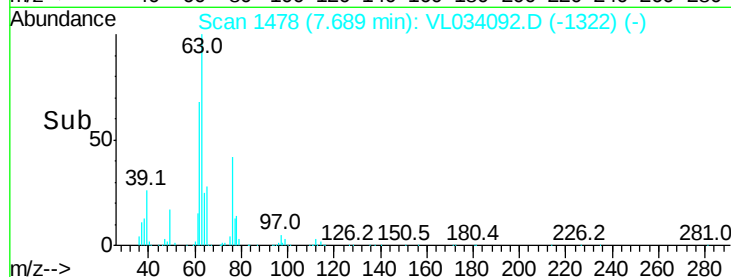
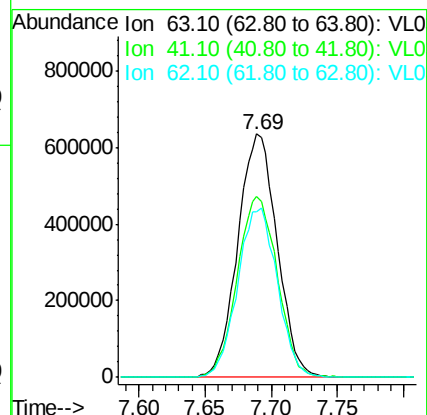
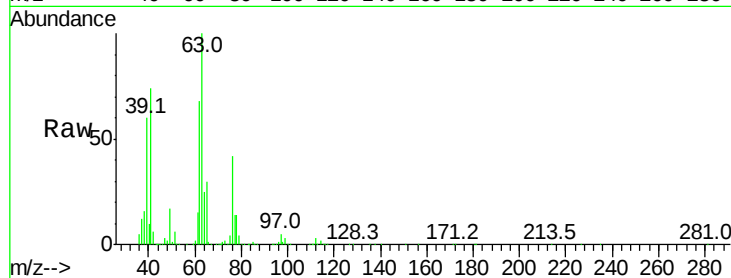
Tgt Ion: 63 Resp: 1307484

Ion Ratio Lower Upper

63 100

41 74.2 60.6 91.0

62 67.7 55.0 82.6



#40

1,4-Dioxane

Concen: 15.751 ppbv

RT: 7.90 min Scan# 1545

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Tgt Ion: 88 Resp: 449033

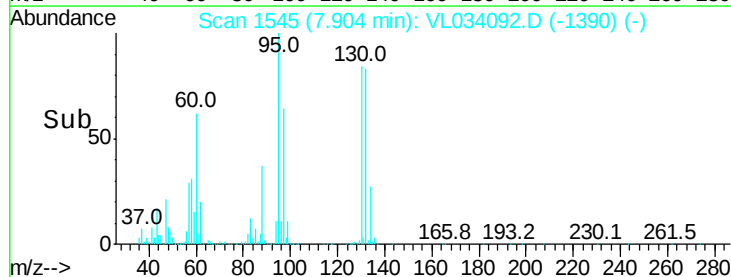
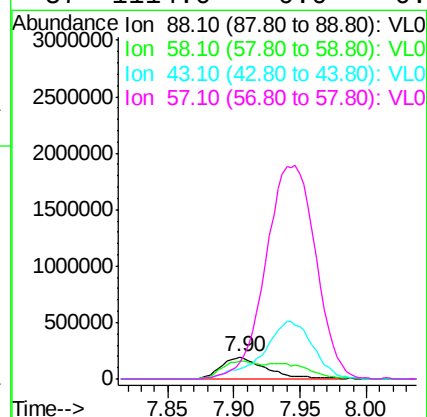
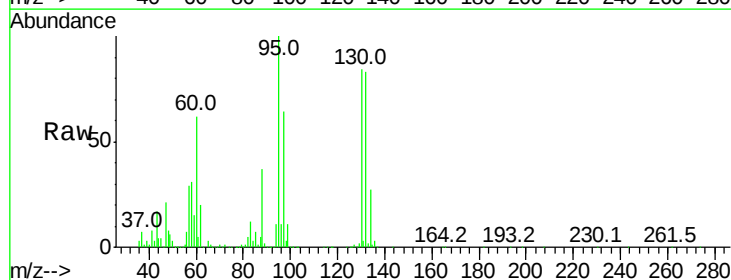
Ion Ratio Lower Upper

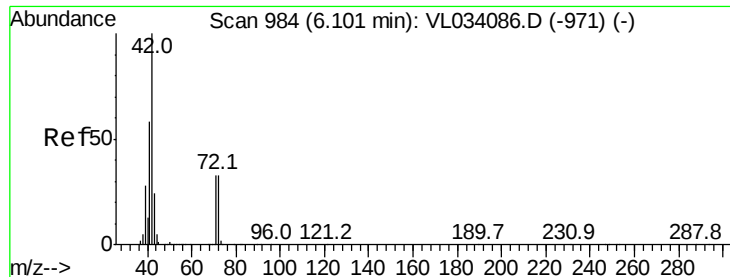
88 100

58 138.9 113.0 169.4

43 299.6 0.0 0.0#

57 1114.0 0.0 0.0#

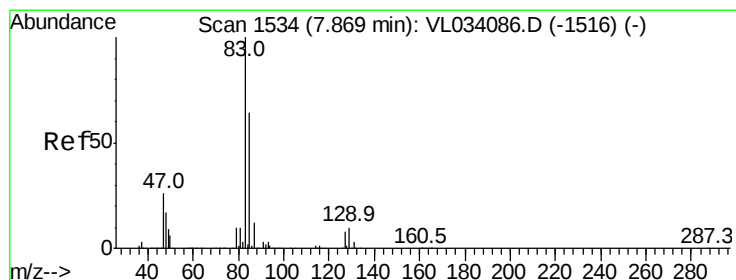
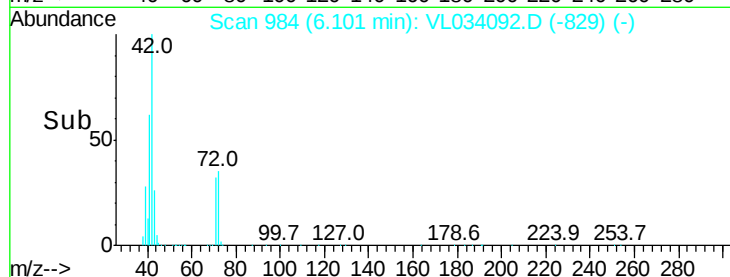
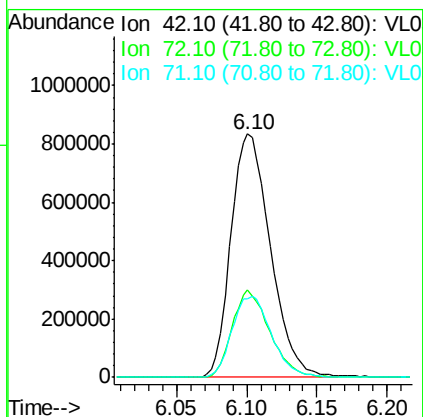
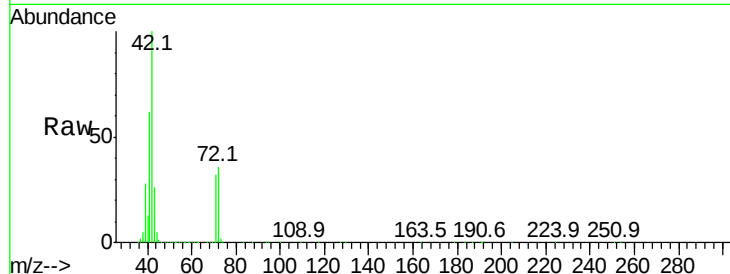




#41
Tetrahydrofuran
Concen: 24.674 ppbv
RT: 6.10 min Scan# 984
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

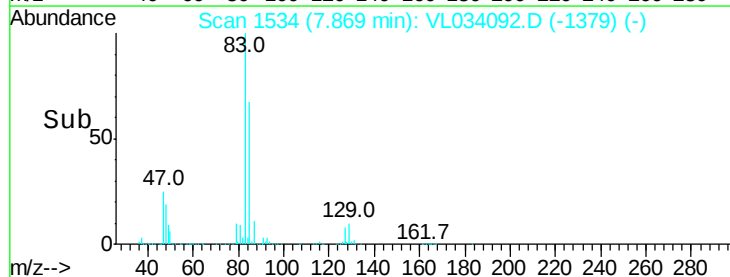
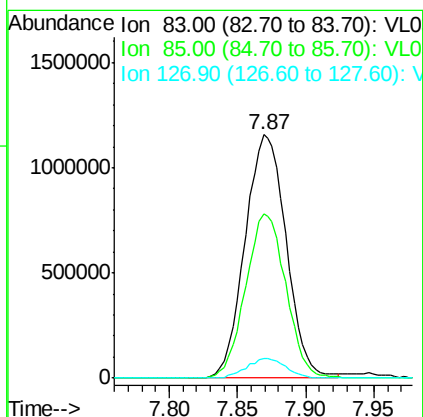
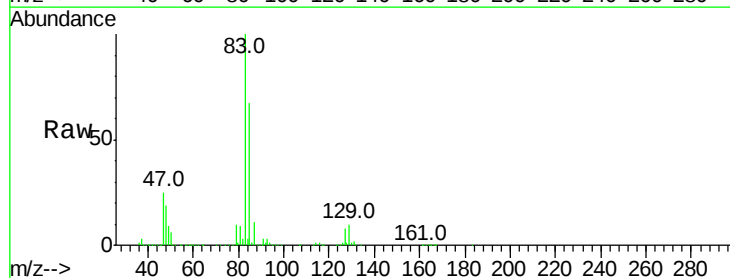
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

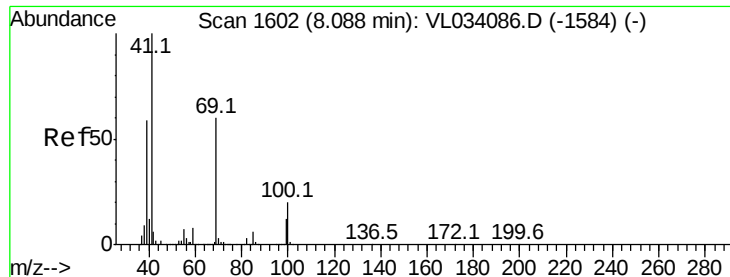
Tgt Ion: 42 Resp: 1634454
Ion Ratio Lower Upper
42 100
72 34.4 26.9 40.3
71 33.7 26.5 39.7



#42
Bromodichloromethane
Concen: 14.334 ppbv
RT: 7.87 min Scan# 1534
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 83 Resp: 2424062
Ion Ratio Lower Upper
83 100
85 67.4 50.9 76.3
127 7.9 6.1 9.1

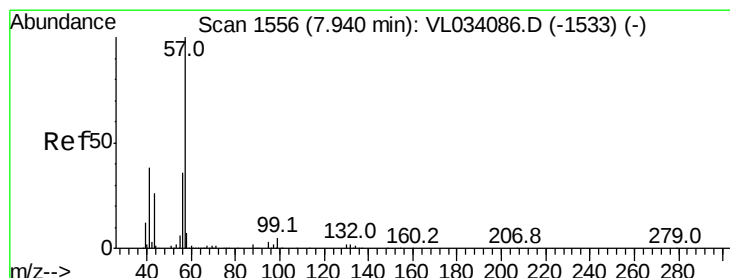
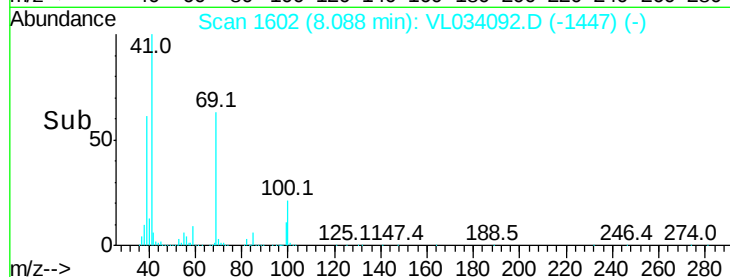
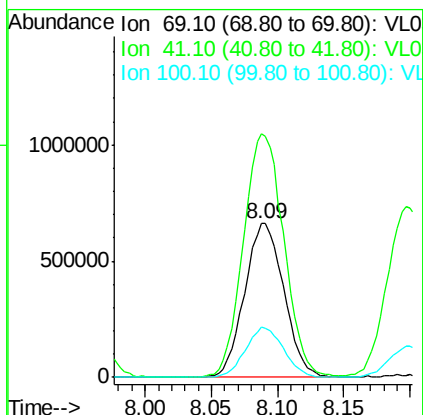
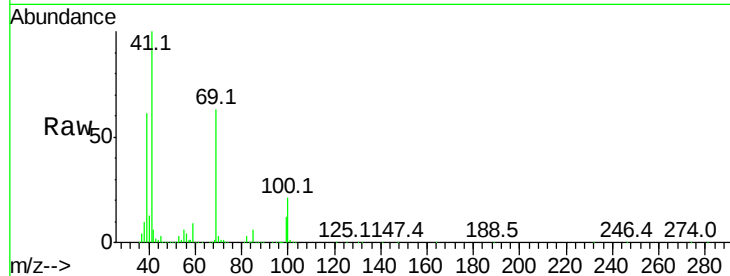




#43
Methyl Methacrylate
Concen: 19.265 ppbv
RT: 8.09 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

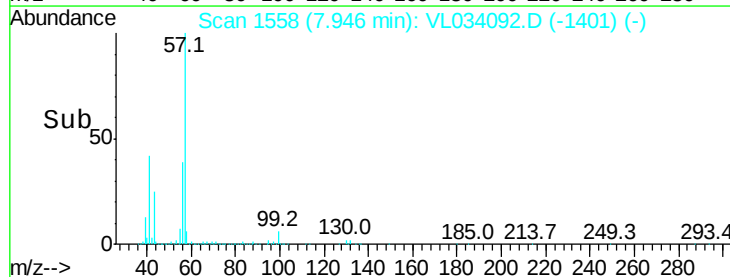
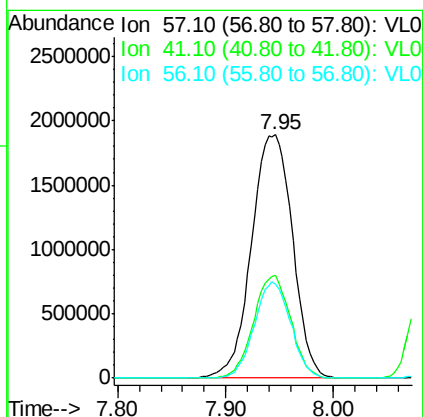
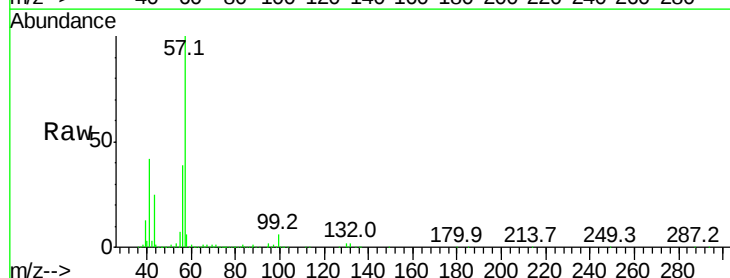
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

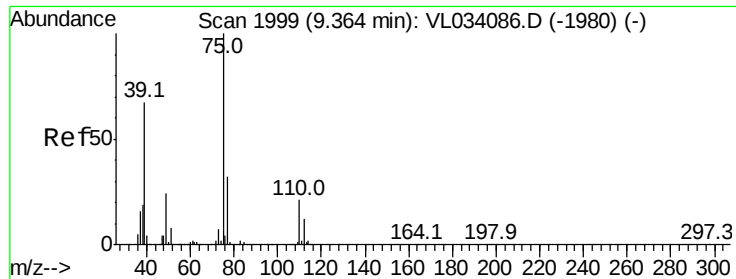
Tgt Ion: 69 Resp: 1366561
Ion Ratio Lower Upper
69 100
41 162.8 132.9 199.3
100 31.6 25.8 38.8



#44
2,2,4-Trimethylpentane
Concen: 16.258 ppbv
RT: 7.95 min Scan# 1558
Delta R.T. 0.01 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 57 Resp: 4992151
Ion Ratio Lower Upper
57 100
41 37.9 29.2 43.8
56 35.0 26.7 40.1





#45

t-1,3-Dichloropropene

Concen: 20.802 ppbv

RT: 9.37 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

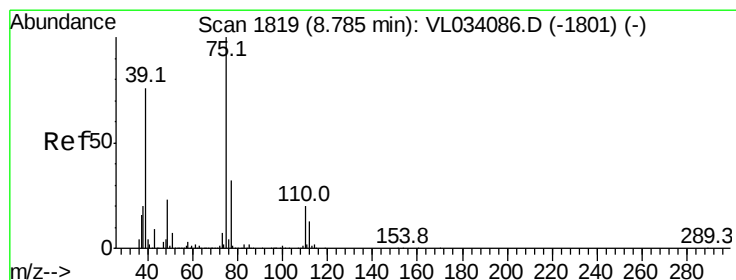
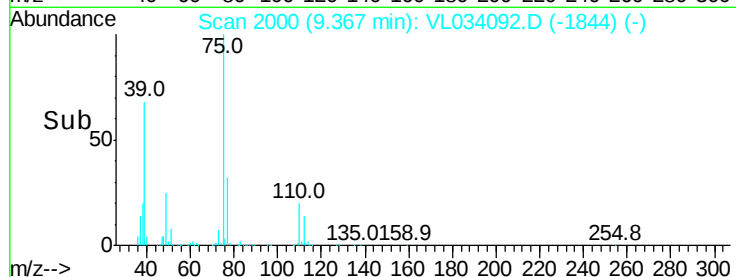
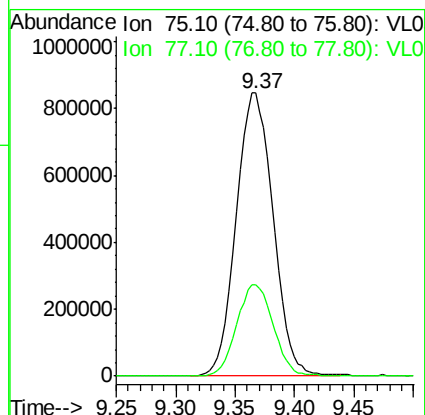
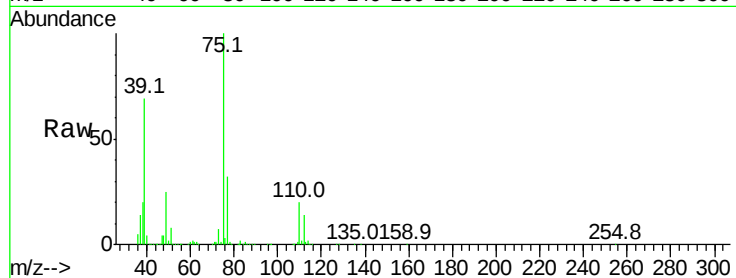
VSTDIC015

Tgt Ion: 75 Resp: 1823608

Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5



#46

cis-1,3-Dichloropropene

Concen: 19.791 ppbv

RT: 8.79 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

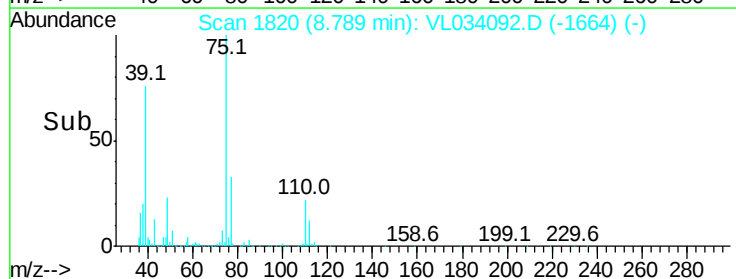
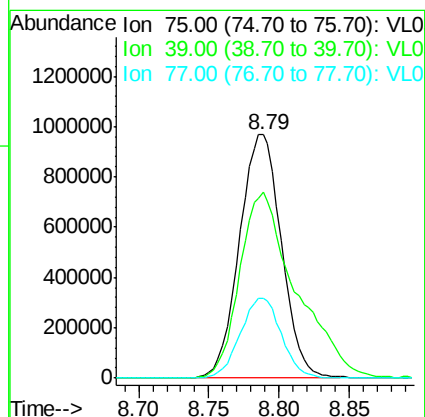
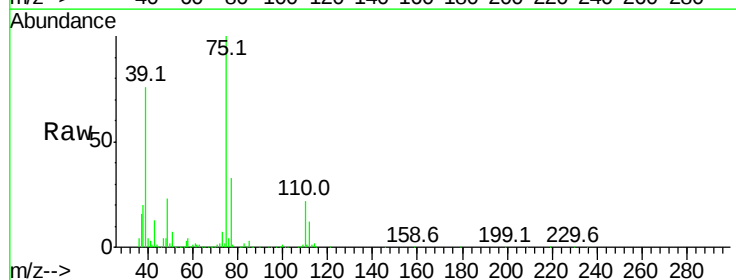
Tgt Ion: 75 Resp: 2013921

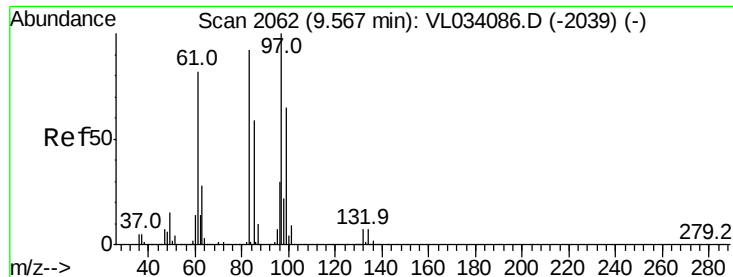
Ion Ratio Lower Upper

75 100

39 76.4 61.0 91.4

77 32.7 25.6 38.4

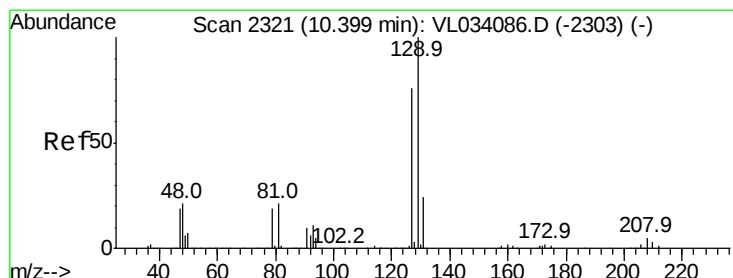
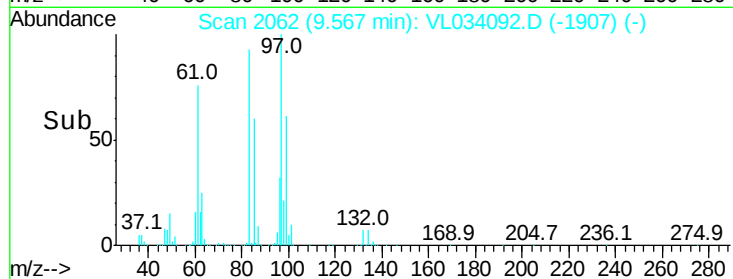
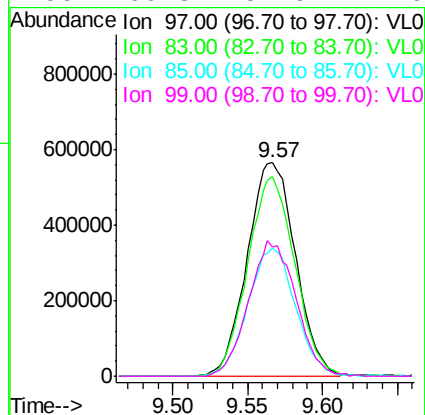
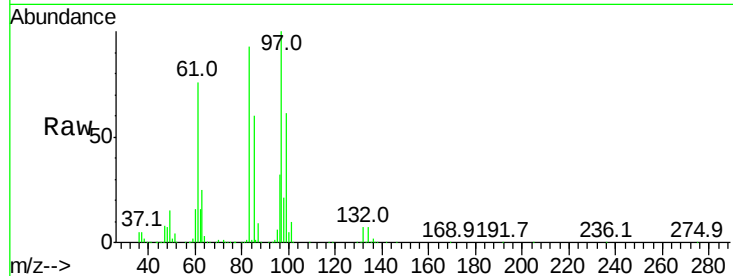




#47
 1,1,2-Trichloroethane
 Concen: 15.824 ppbv
 RT: 9.57 min Scan# 2062
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

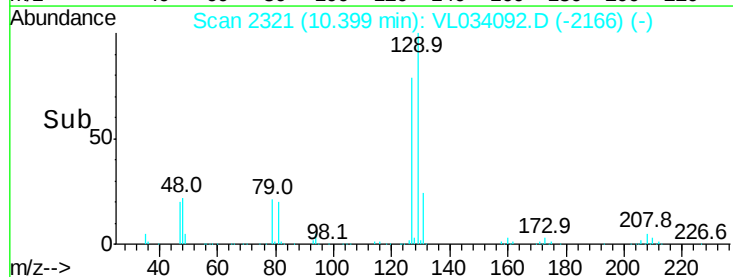
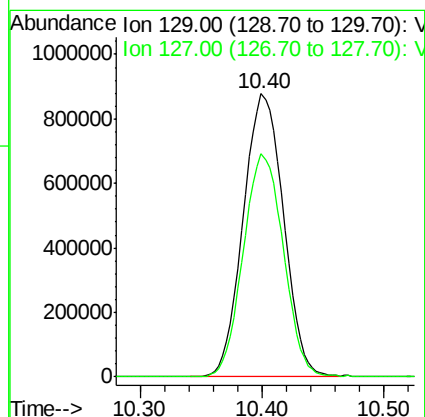
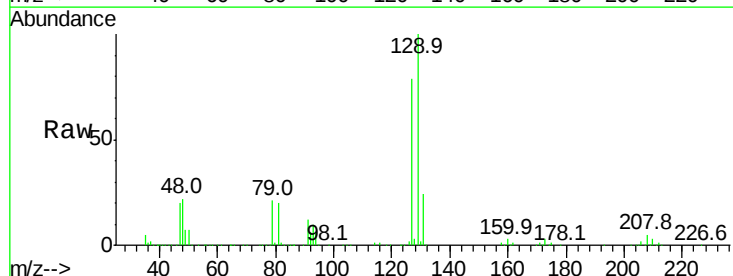
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

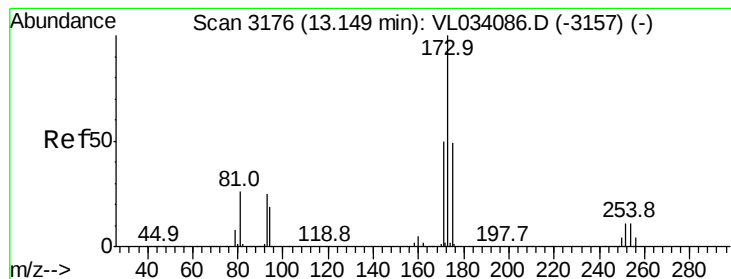
Tgt Ion: 97 Resp: 1267436
 Ion Ratio Lower Upper
 97 100
 83 93.5 74.0 111.0
 85 59.7 47.1 70.7
 99 60.8 51.9 77.9



#48
 Dibromochloromethane
 Concen: 14.814 ppbv
 RT: 10.40 min Scan# 2321
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion: 129 Resp: 2007763
 Ion Ratio Lower Upper
 129 100
 127 78.6 39.4 118.2





#49

Bromoform

Concen: 15.596 ppbv

RT: 13.15 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

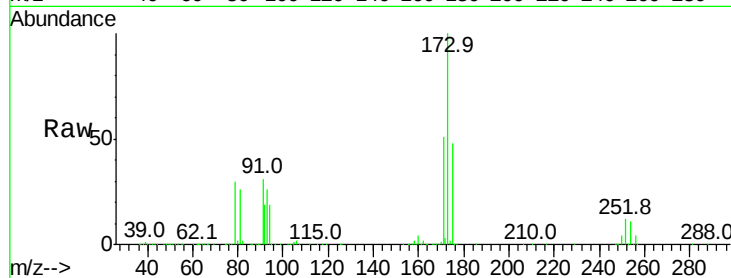
Tgt Ion:173 Resp: 1831011

Ion Ratio Lower Upper

173 100

175 49.9 39.8 59.8

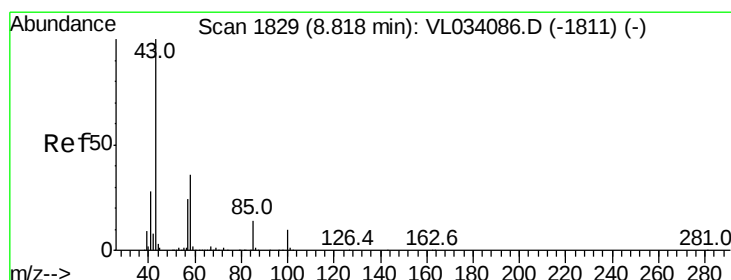
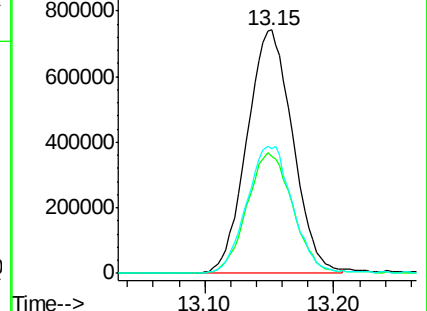
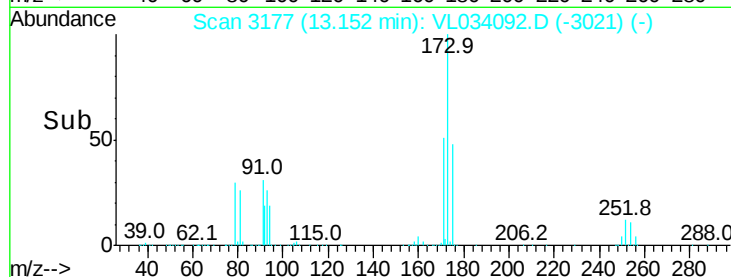
171 53.2 42.7 64.1



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: 20.326 ppbv

RT: 8.82 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VL034092.D

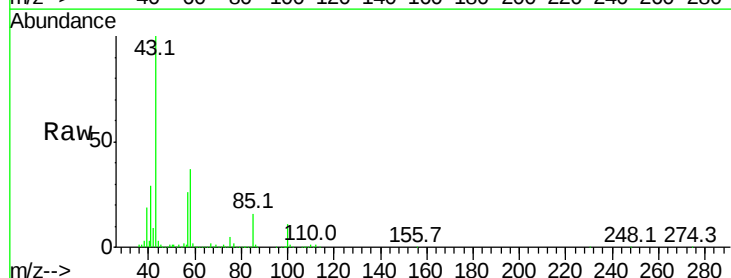
Acq: 5 Aug 2019 16:34

Tgt Ion: 43 Resp: 3730450

Ion Ratio Lower Upper

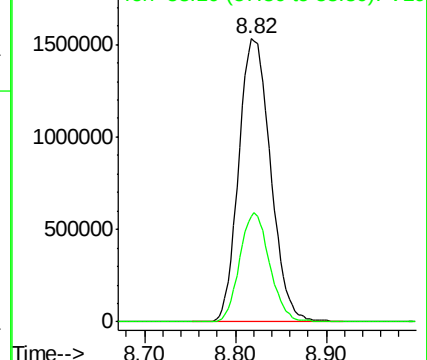
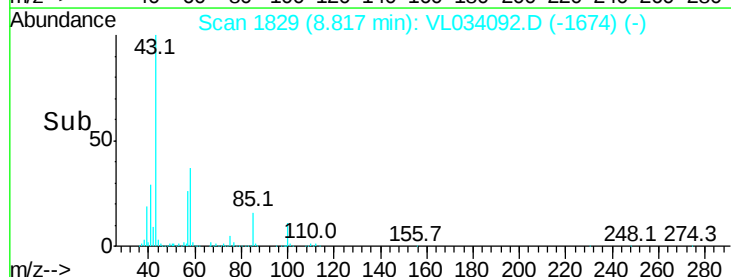
43 100

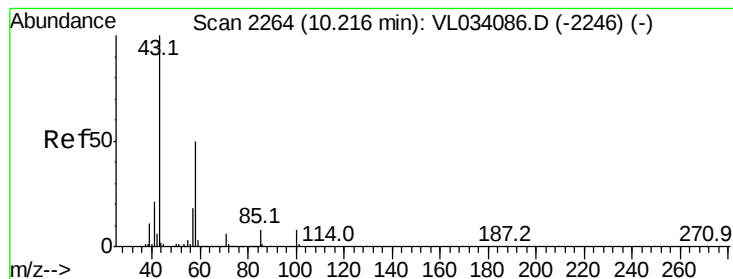
58 36.3 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 23.415 ppbv

RT: 10.22 min Scan# 2266

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

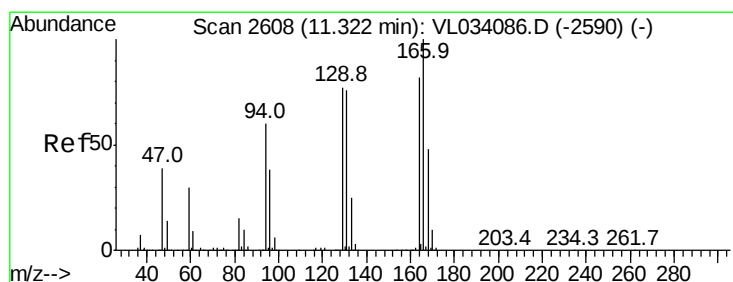
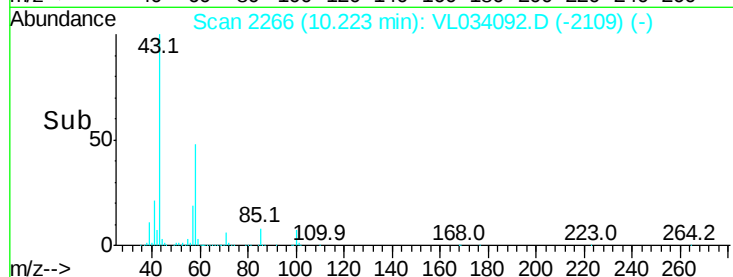
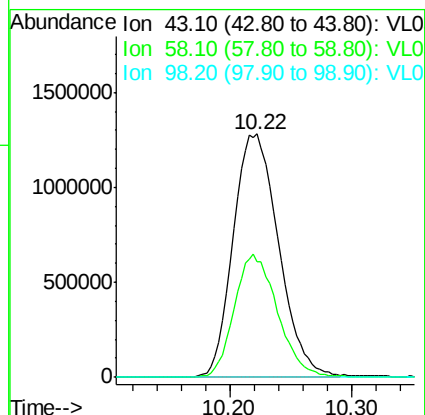
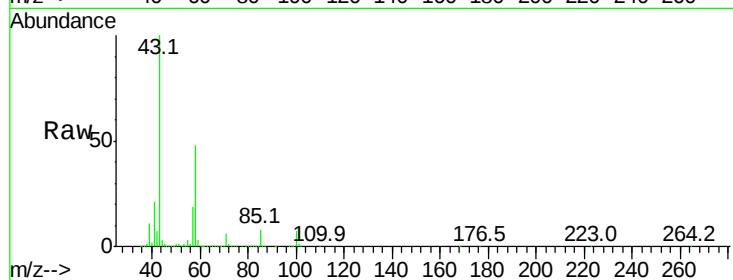
Tgt Ion: 43 Resp: 3313152

Ion Ratio Lower Upper

43 100

58 48.1 38.5 57.7

98 0.0 0.0 0.0#



#52

Tetrachloroethene

Concen: 18.287 ppbv

RT: 11.32 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Tgt Ion: 164 Resp: 1097291

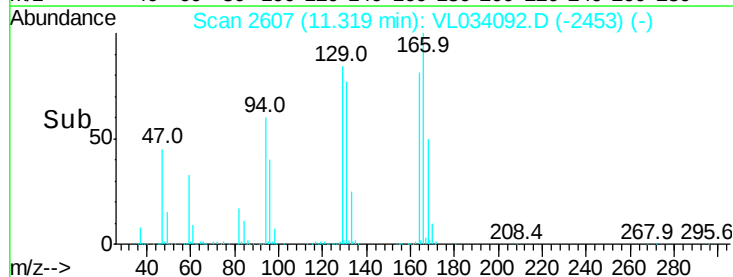
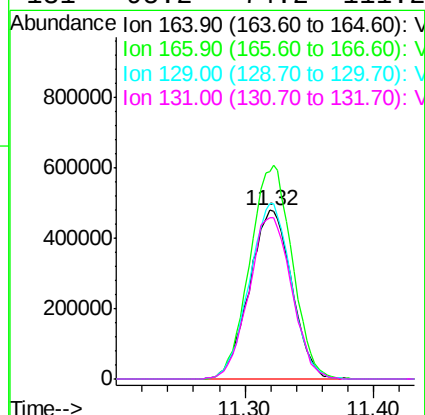
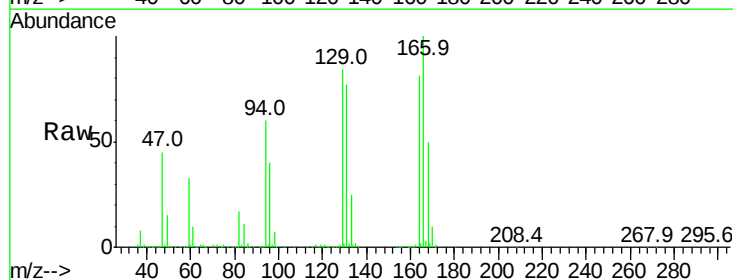
Ion Ratio Lower Upper

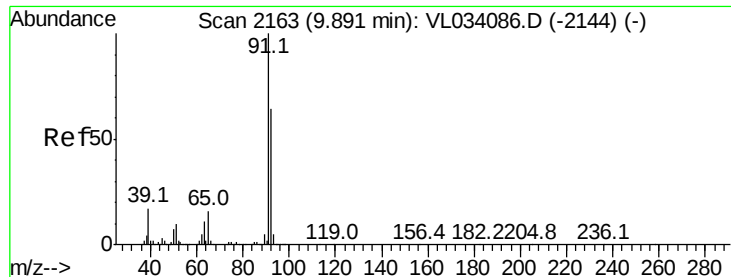
164 100

166 123.0 96.8 145.2

129 103.7 74.9 112.3

131 95.2 74.2 111.2





#53

Toluene

Concen: 17.227 ppbv

RT: 9.89 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

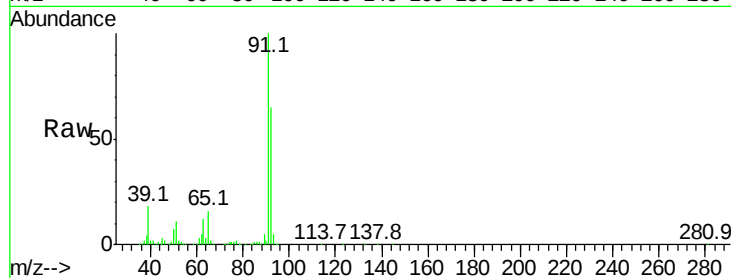
VSTDIC015

Tgt Ion: 91 Resp: 3520645

Ion Ratio Lower Upper

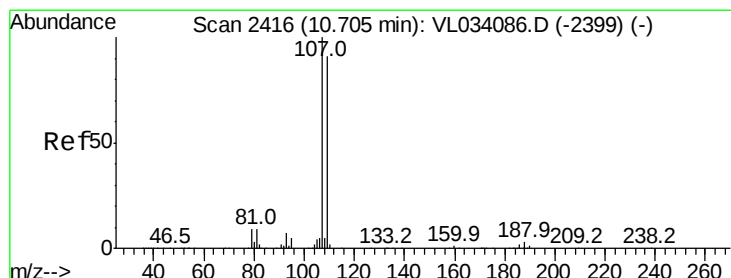
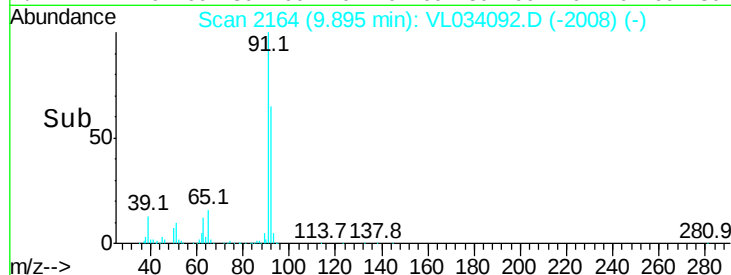
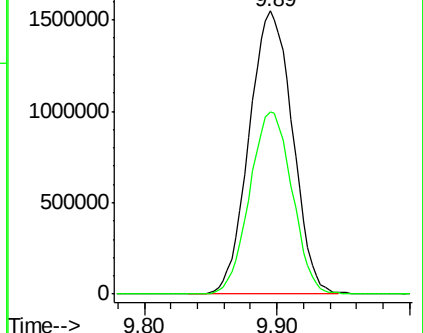
91 100

92 63.2 50.3 75.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 15.943 ppbv

RT: 10.71 min Scan# 2417

Delta R.T. 0.00 min

Lab File: VL034092.D

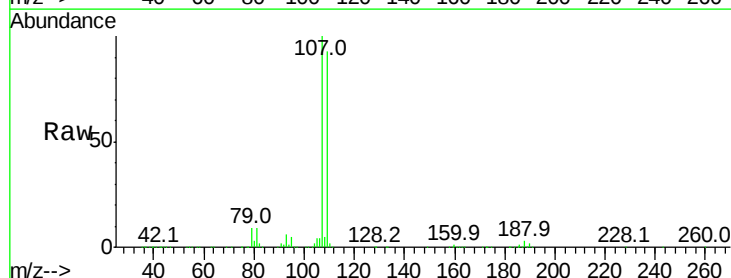
Acq: 5 Aug 2019 16:34

Tgt Ion: 107 Resp: 1895011

Ion Ratio Lower Upper

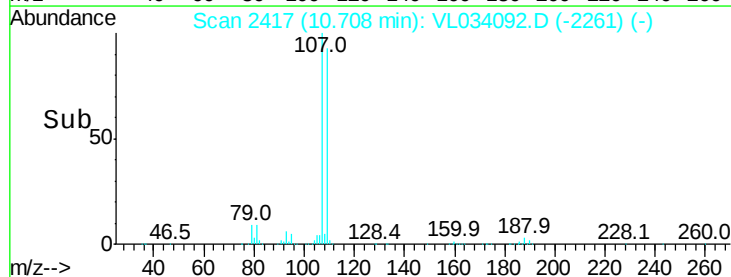
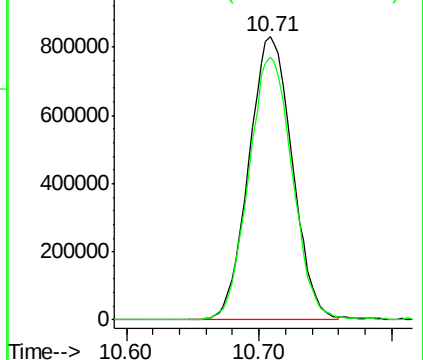
107 100

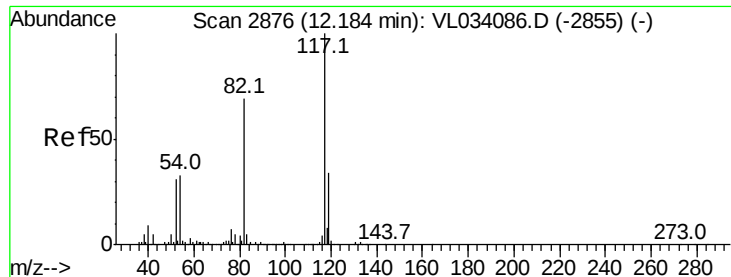
109 92.9 72.9 109.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2876

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

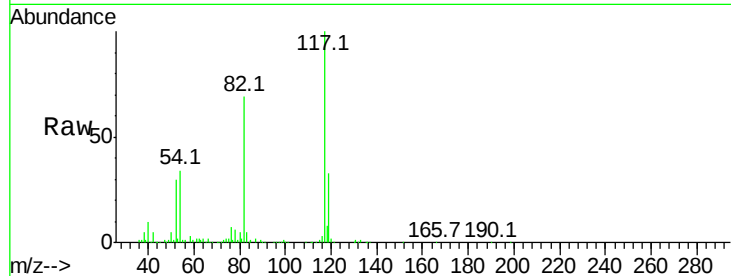
Tgt Ion:117 Resp: 2346951

Ion Ratio Lower Upper

117 100

82 69.2 52.2 78.4

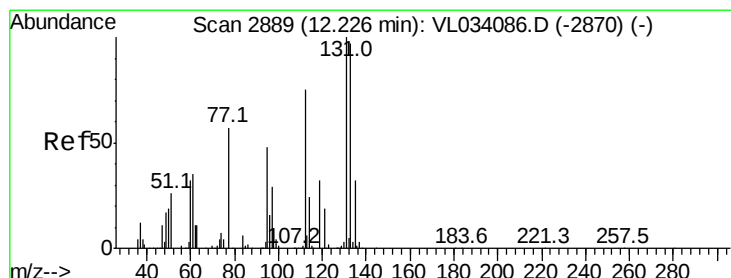
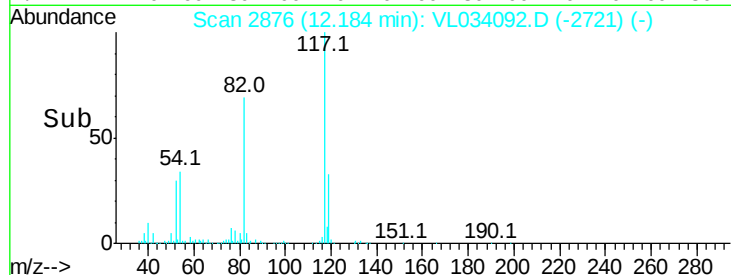
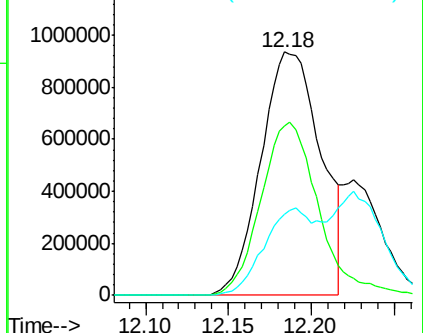
119 0.0 44.8 67.2#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 12.785 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

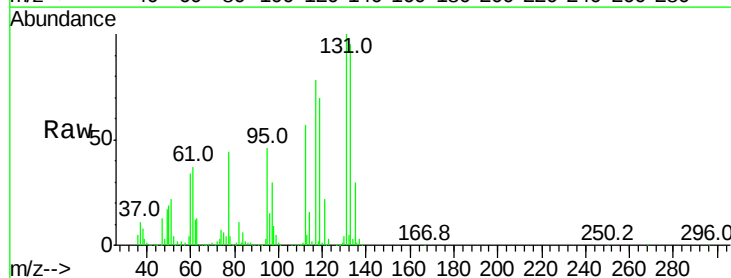
Tgt Ion:131 Resp: 1322641

Ion Ratio Lower Upper

131 100

133 96.1 76.5 114.7

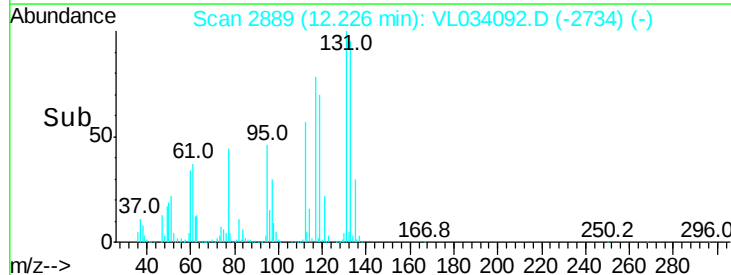
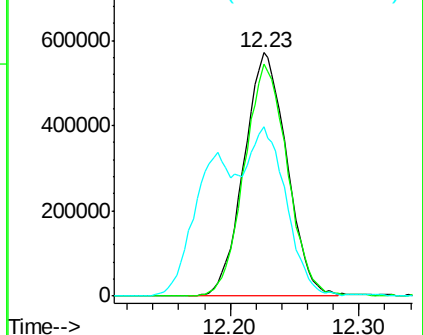
119 122.0 114.7 172.1

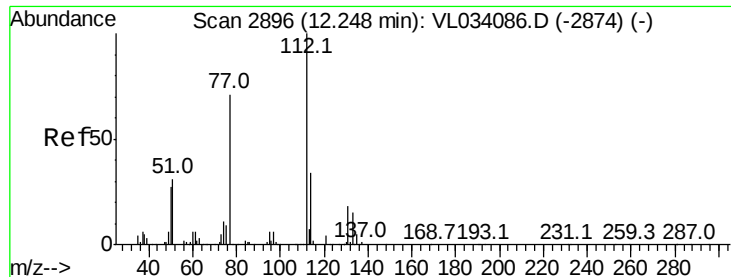


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

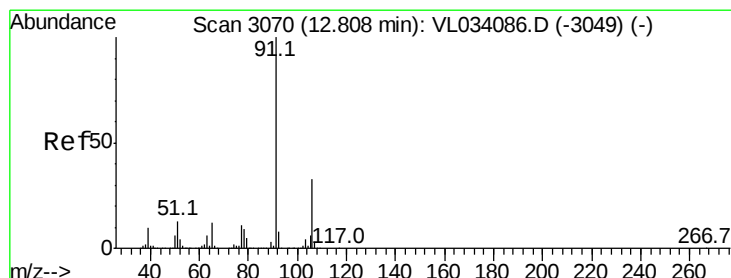
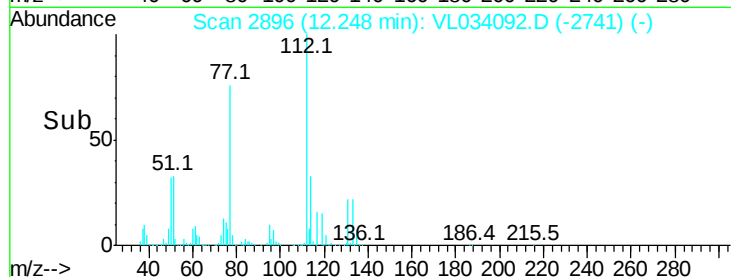
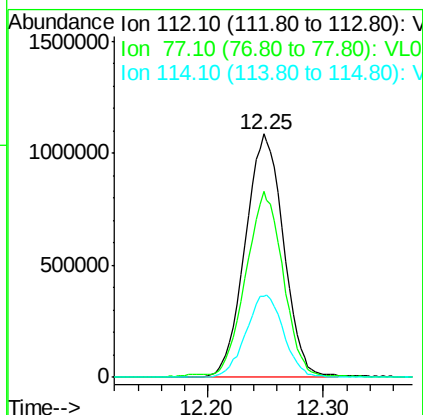
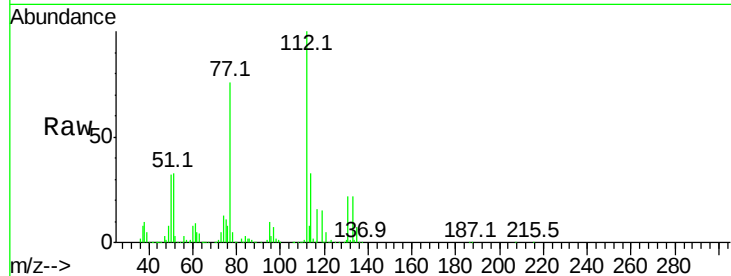




#57
Chlorobenzene
Concen: 13.049 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

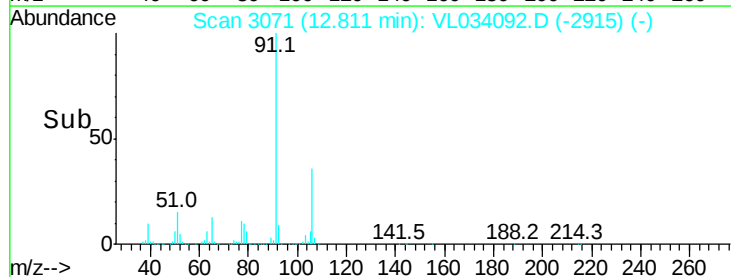
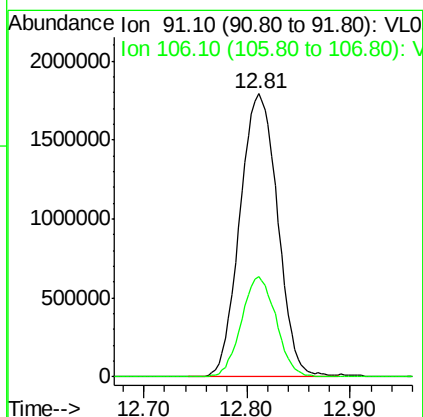
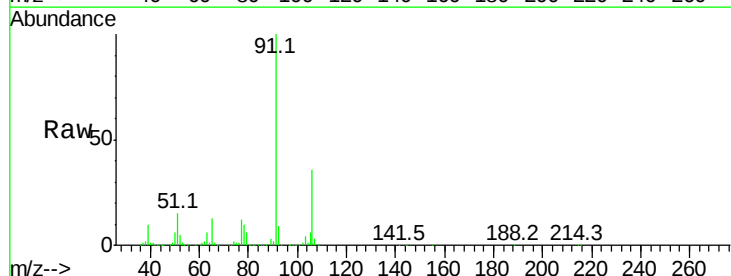
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

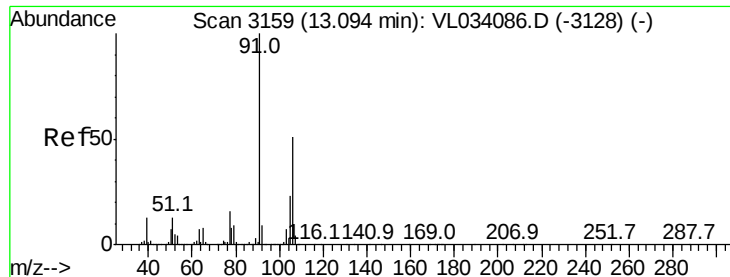
Tgt Ion: 112 Resp: 2500787
Ion Ratio Lower Upper
112 100
77 75.7 57.8 86.6
114 33.1 30.3 37.1



#58
Ethyl Benzene
Concen: 14.744 ppbv
RT: 12.81 min Scan# 3071
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 91 Resp: 4567069
Ion Ratio Lower Upper
91 100
106 35.6 26.0 39.0

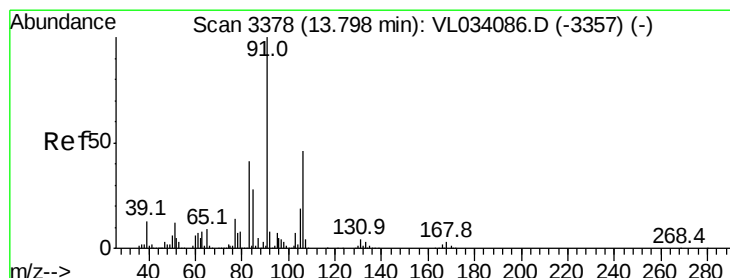
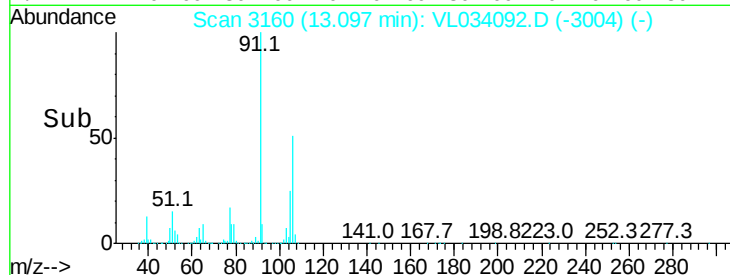
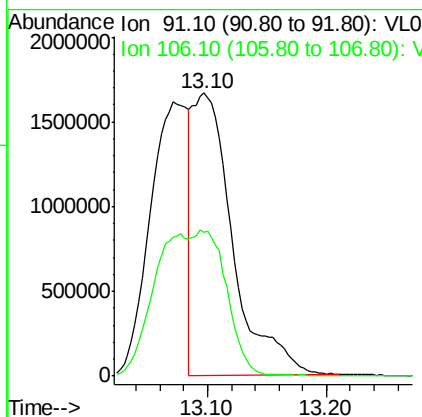
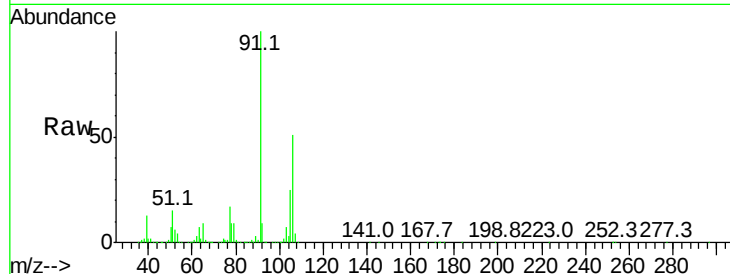




#59
m/p-Xylene
Concen: 14.168 ppbv
RT: 13.10 min Scan# 3160
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

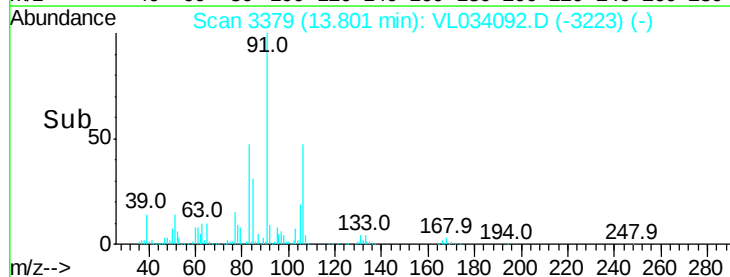
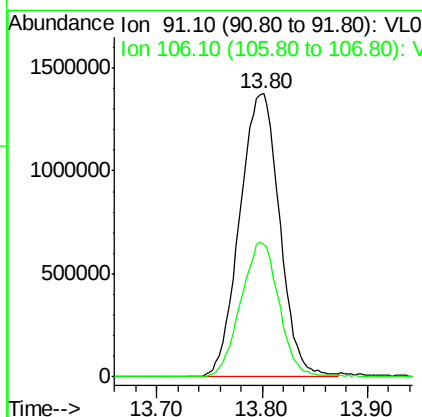
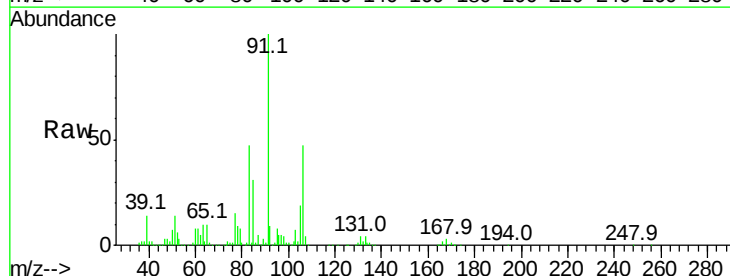
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

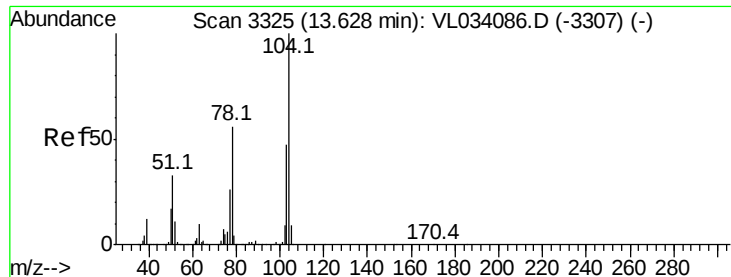
Tgt Ion: 91 Resp: 3921434
Ion Ratio Lower Upper
91 100
106 90.2 38.7 58.1#



#60
o-Xylene
Concen: 13.036 ppbv
RT: 13.80 min Scan# 3379
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 91 Resp: 3625434
Ion Ratio Lower Upper
91 100
106 45.6 22.6 67.7





#61

Styrene

Concen: 16.847 ppbv

RT: 13.63 min Scan# 3326

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

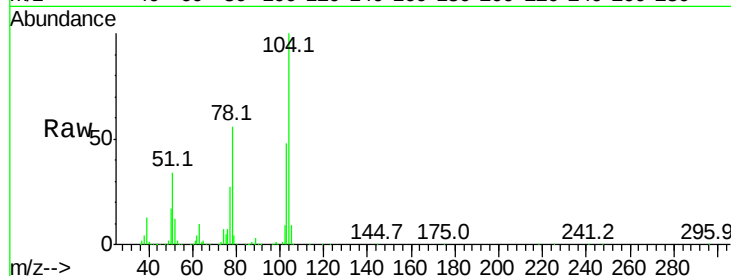
Tgt Ion:104 Resp: 3066532

Ion Ratio Lower Upper

104 100

78 57.4 44.2 66.4

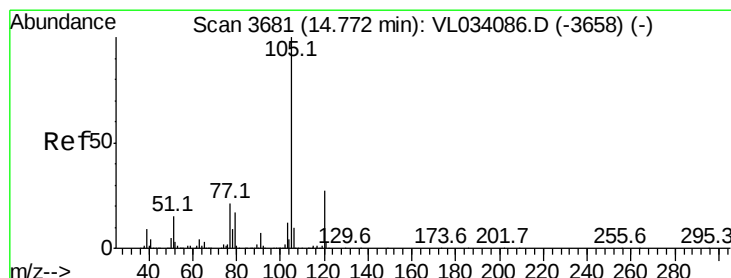
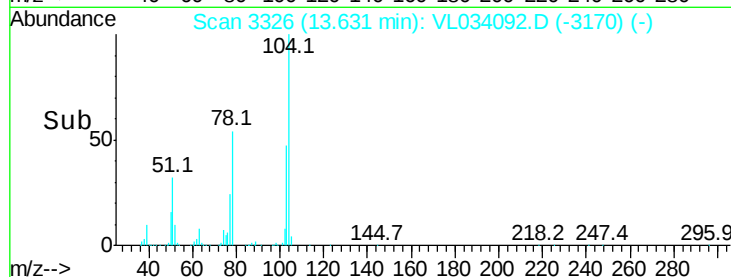
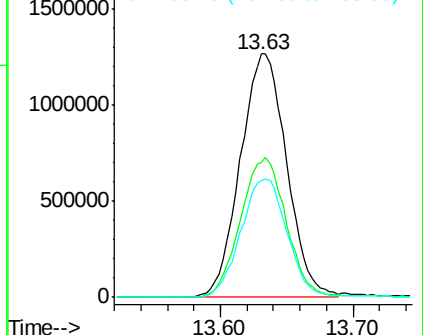
103 49.2 38.3 57.5



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: 13.085 ppbv

RT: 14.77 min Scan# 3681

Delta R.T. -0.00 min

Lab File: VL034092.D

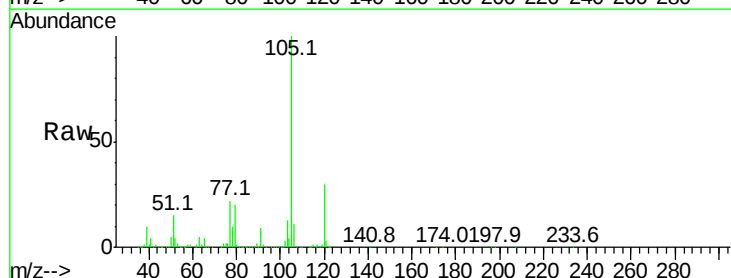
Acq: 5 Aug 2019 16:34

Tgt Ion:105 Resp: 4777201

Ion Ratio Lower Upper

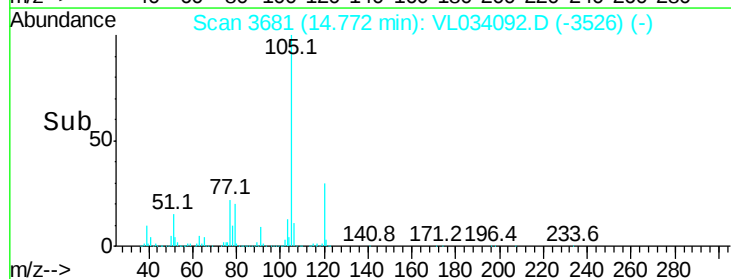
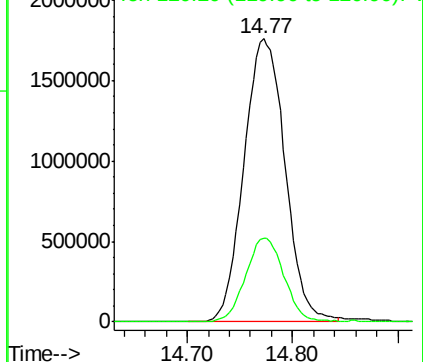
105 100

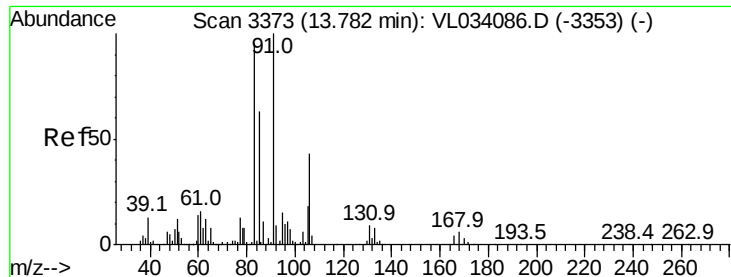
120 28.0 21.4 32.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

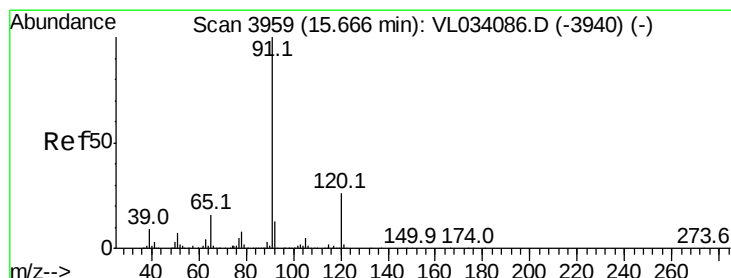
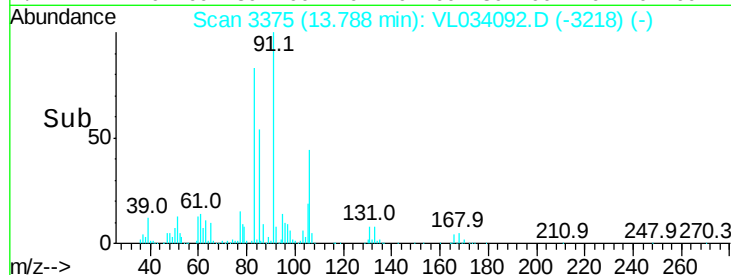
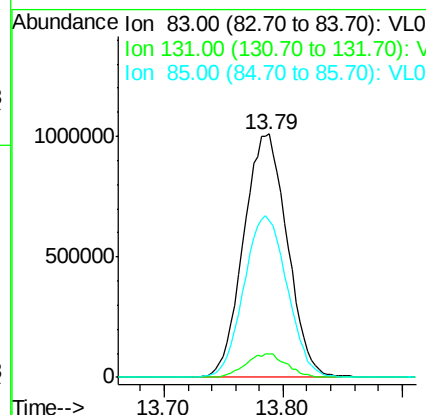
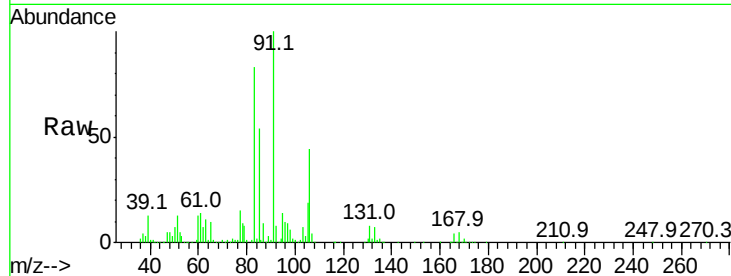




#63
 1,1,2,2-Tetrachloroethane
 Concen: 11.722 ppbv
 RT: 13.79 min Scan# 3375
 Delta R.T. 0.01 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

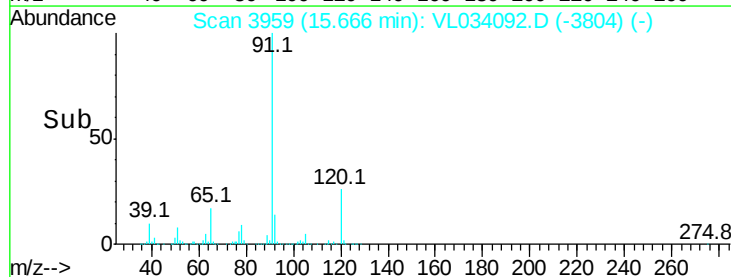
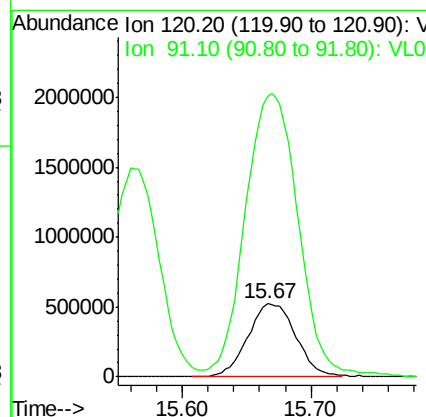
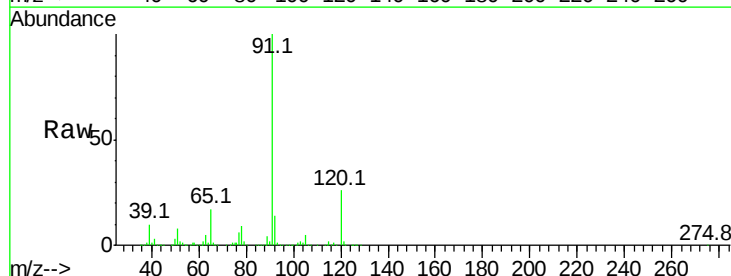
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

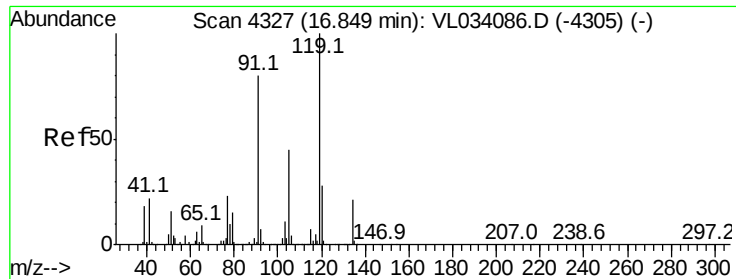
Tgt Ion: 83 Resp: 2565961
 Ion Ratio Lower Upper
 83 100
 131 9.2 4.6 13.8
 85 66.2 32.6 97.8



#64
 n-propylbenzene
 Concen: 14.617 ppbv
 RT: 15.67 min Scan# 3959
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion: 120 Resp: 1349509
 Ion Ratio Lower Upper
 120 100
 91 430.7 359.7 539.5





#65

tert-Butylbenzene

Concen: 12.682 ppbv

RT: 16.86 min Scan# 4329

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

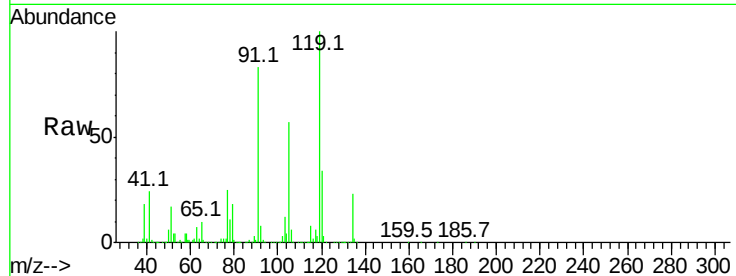
Tgt Ion:119 Resp: 4156570

Ion Ratio Lower Upper

119 100

91 85.9 67.6 101.4

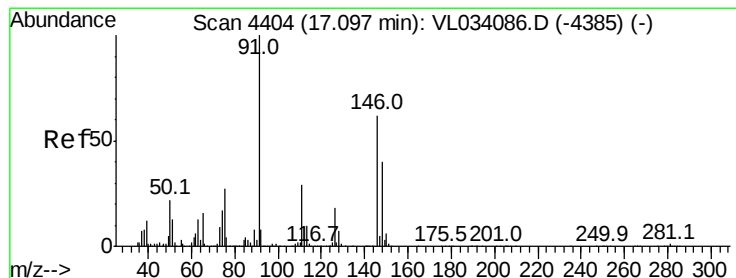
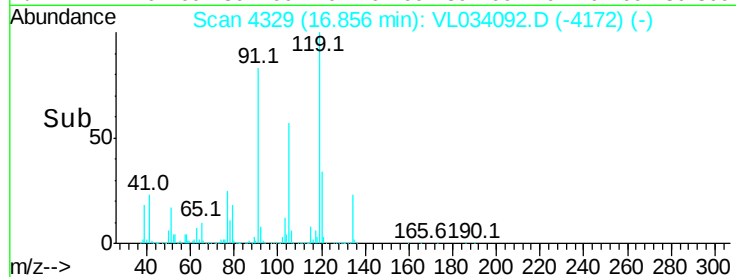
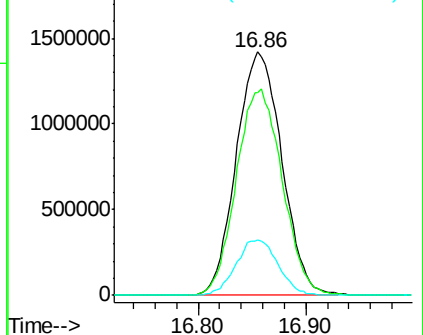
134 21.3 16.0 24.0



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: 17.251 ppbv

RT: 17.10 min Scan# 4406

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

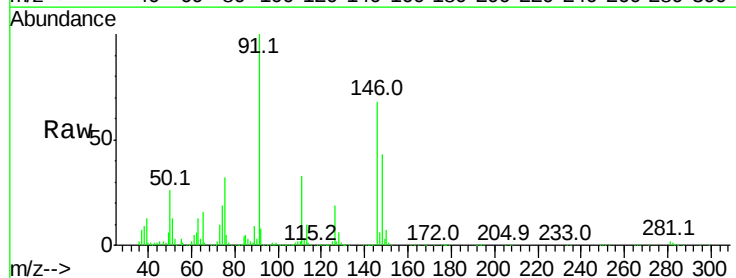
Tgt Ion: 91 Resp: 2764736

Ion Ratio Lower Upper

91 100

126 18.4 14.8 22.2

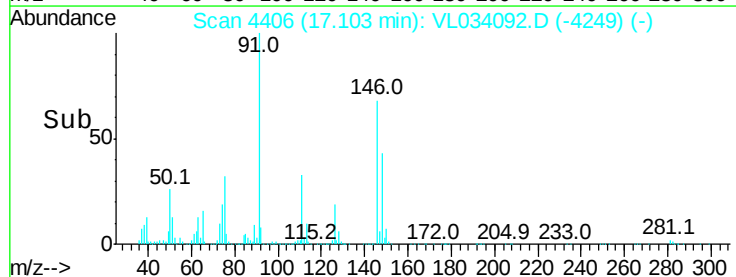
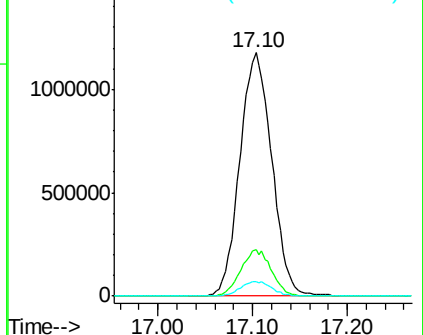
128 5.9 4.8 7.2

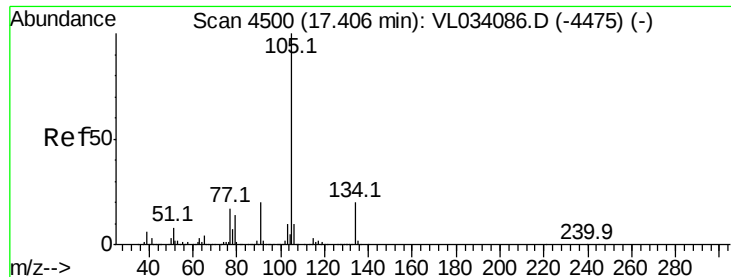


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 12.039 ppbv

RT: 17.41 min Scan# 4500

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

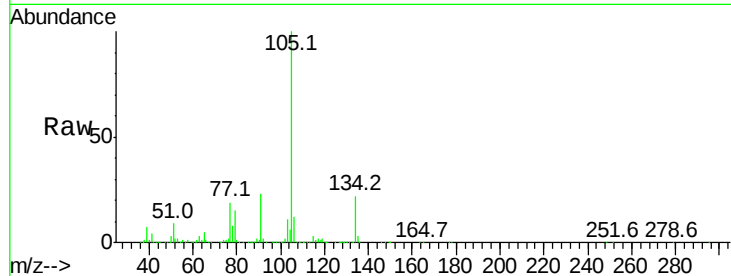
VSTDIC015

Tgt Ion:105 Resp: 5653228

Ion Ratio Lower Upper

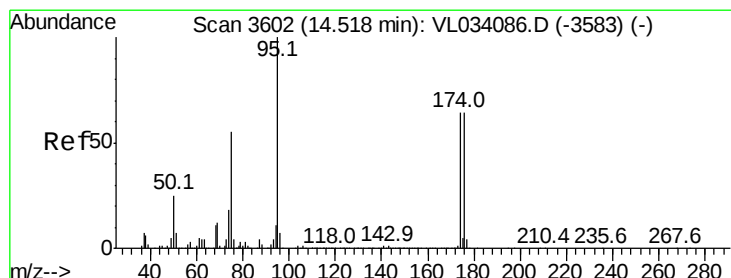
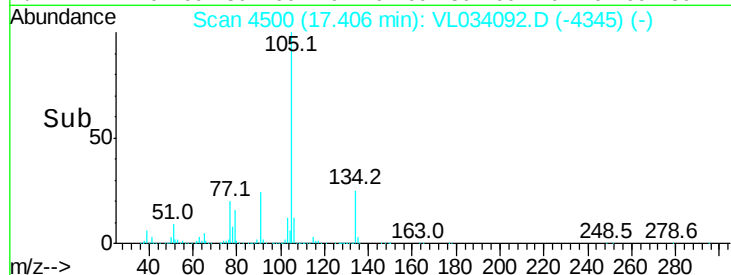
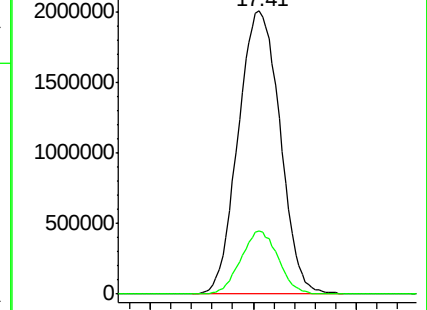
105 100

134 20.1 15.4 23.2



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: 9.134 ppbv

RT: 14.52 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

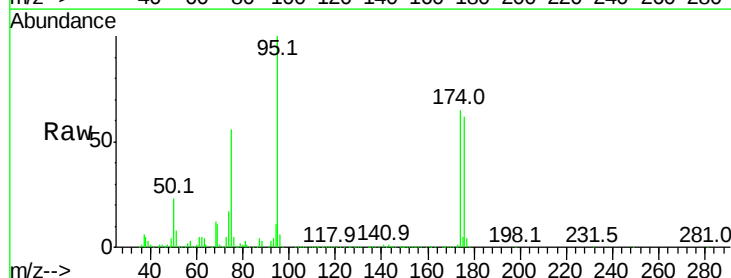
Tgt Ion: 95 Resp: 1894153

Ion Ratio Lower Upper

95 100

174 65.5 53.0 79.6

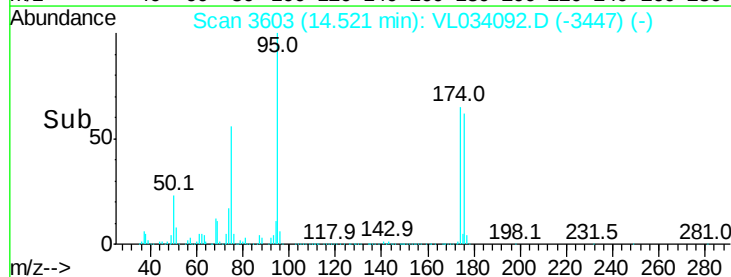
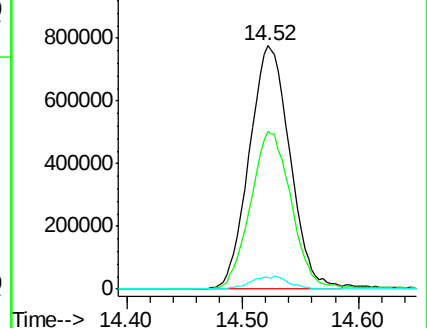
175 5.0 4.2 6.2

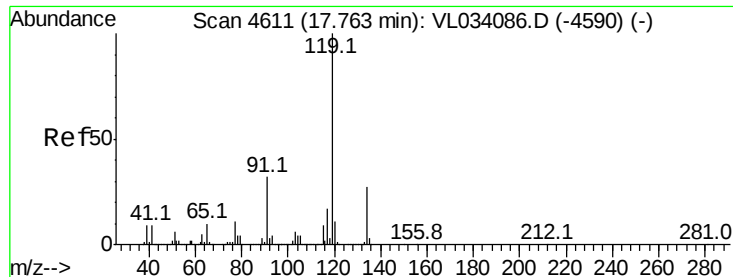


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

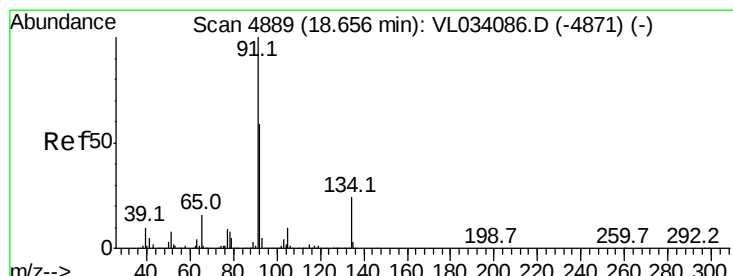
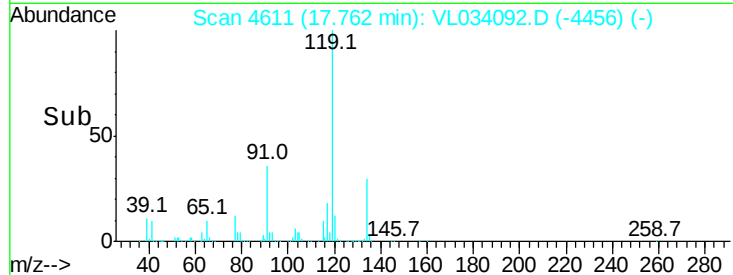
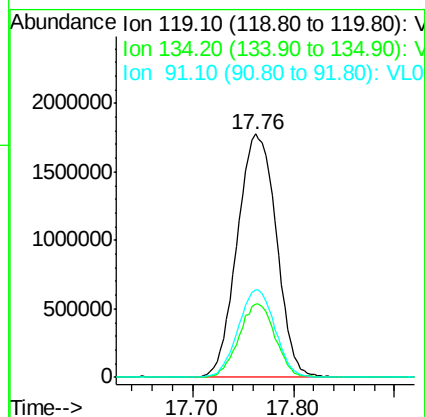
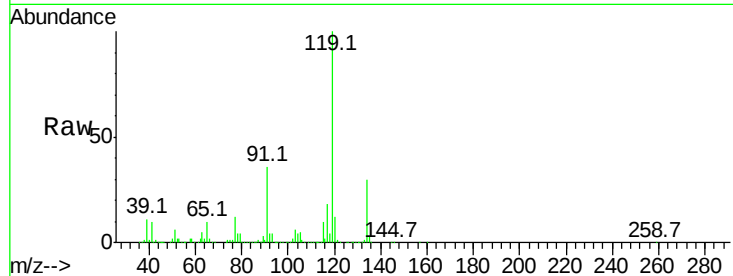




#69
p-Isopropyltoluene
Concen: 12.487 ppbv
RT: 17.76 min Scan# 4611
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

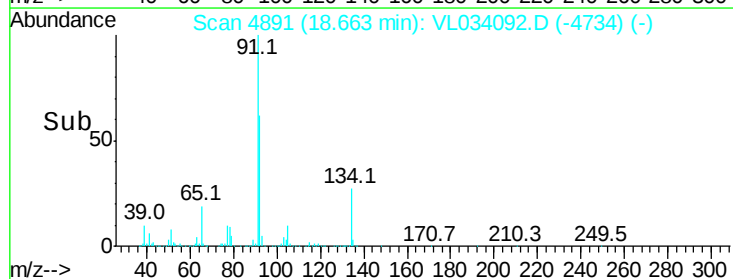
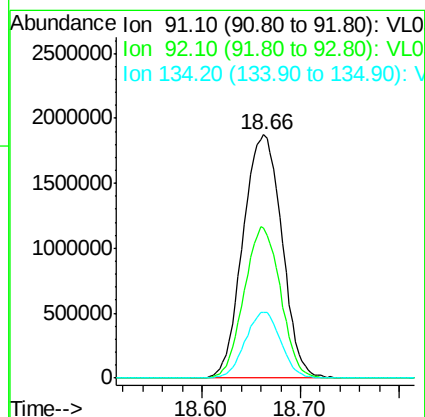
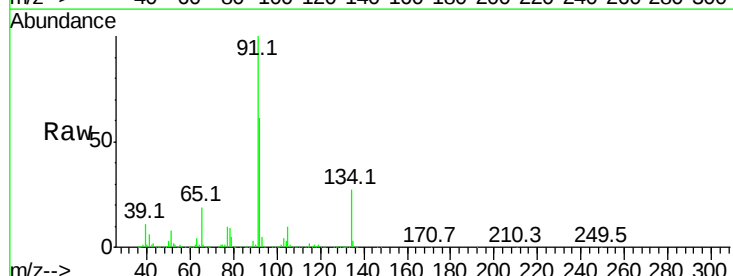
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

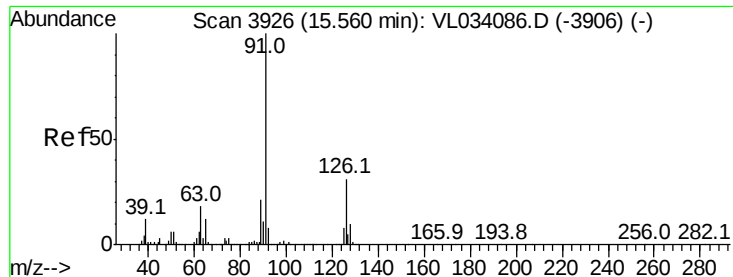
Tgt Ion:119 Resp: 4775836
Ion Ratio Lower Upper
119 100
134 27.9 21.3 31.9
91 33.9 25.4 38.0



#70
n-Butylbenzene
Concen: 12.241 ppbv
RT: 18.66 min Scan# 4891
Delta R.T. 0.01 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 91 Resp: 5107593
Ion Ratio Lower Upper
91 100
92 58.3 45.9 68.9
134 24.8 19.0 28.4





#71

2-Chlorotoluene

Concen: 14.422 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

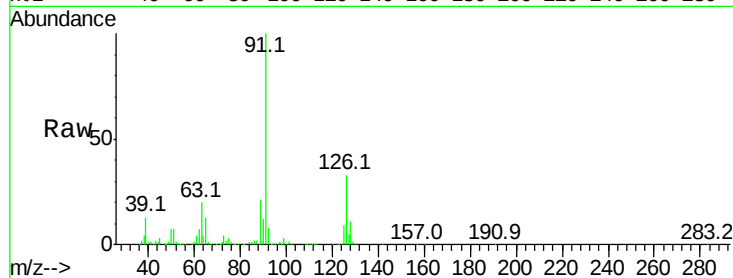
VSTDIC015

Tgt Ion: 91 Resp: 3897509

Ion Ratio Lower Upper

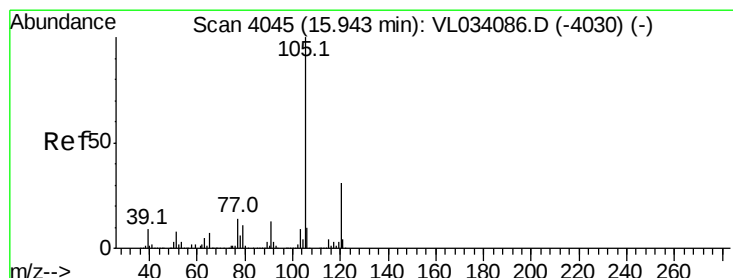
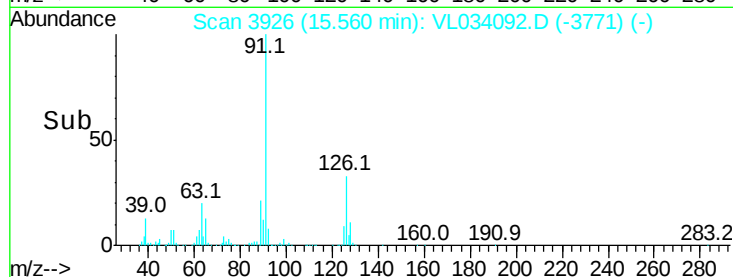
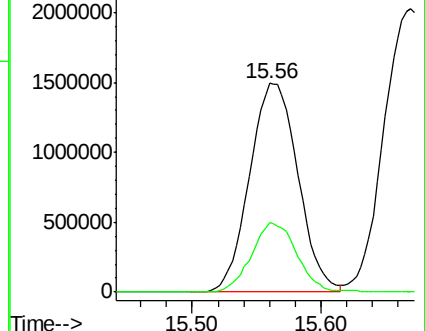
91 100

126 31.6 12.2 48.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 13.726 ppbv

RT: 15.95 min Scan# 4047

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Tgt Ion: 105 Resp: 4278287

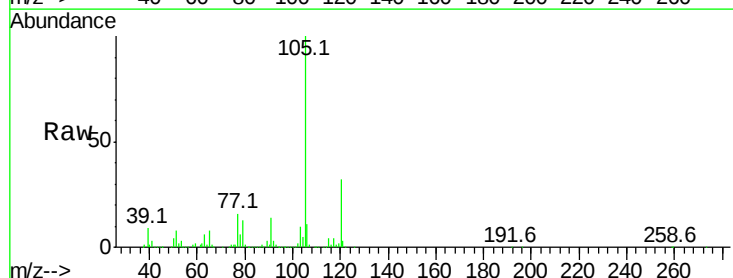
Ion Ratio Lower Upper

105 100

120 31.8 24.2 36.2

91 14.6 10.5 15.7

77 15.7 11.9 17.9

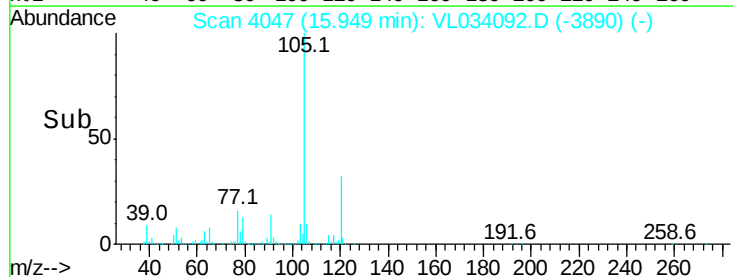
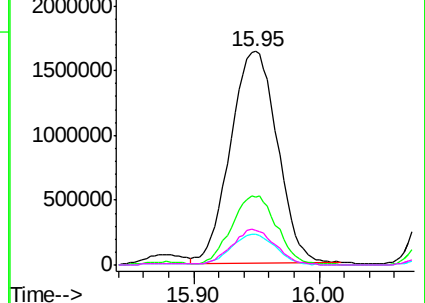


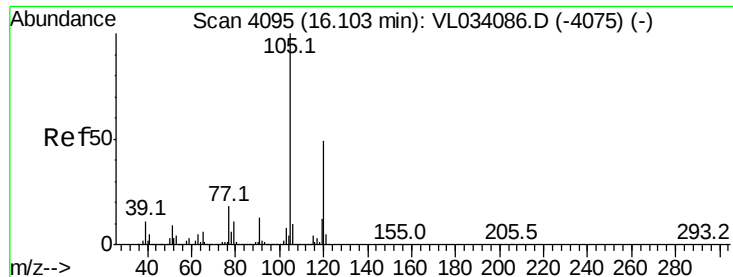
Abundance Ion 105.10 (104.80 to 105.80): V

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: 13.241 ppbv

RT: 16.11 min Scan# 4096

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

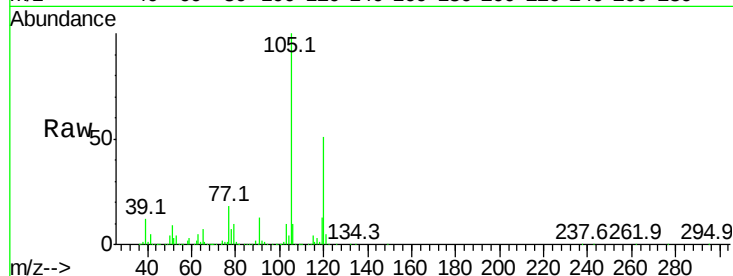
VSTDIC015

Tgt Ion:105 Resp: 4063567

Ion Ratio Lower Upper

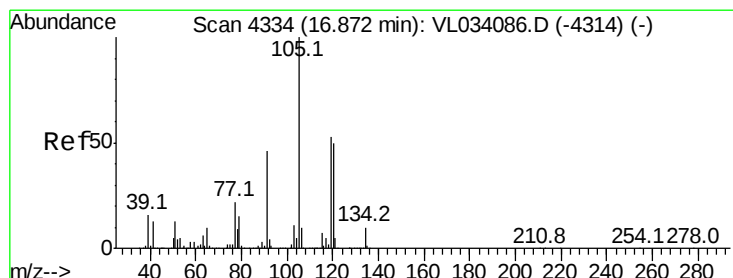
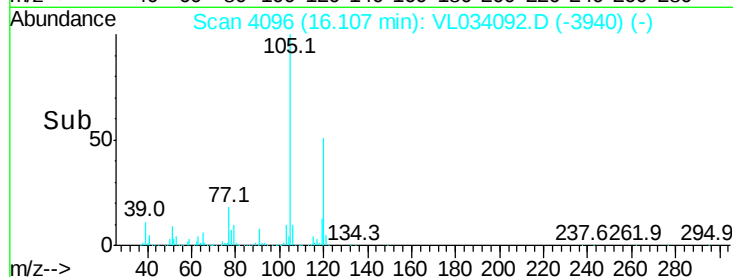
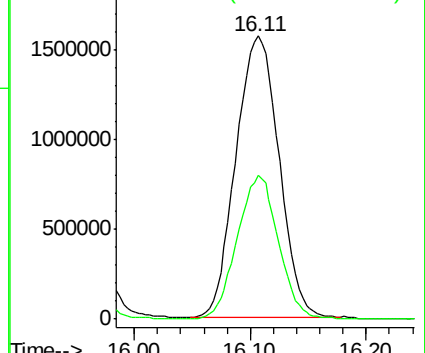
105 100

120 51.2 39.0 58.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 11.907 ppbv

RT: 16.88 min Scan# 4335

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Tgt Ion:105 Resp: 4043639

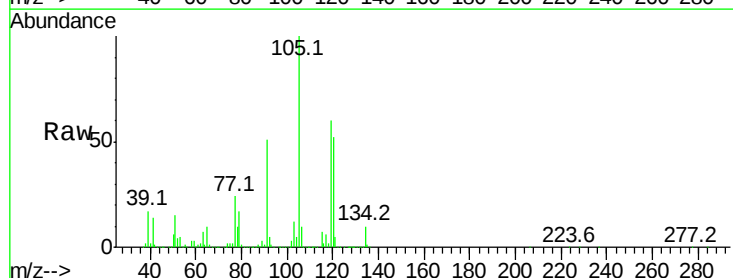
Ion Ratio Lower Upper

105 100

120 52.2 40.2 60.4

91 51.1 38.1 57.1

77 24.3 17.8 26.8

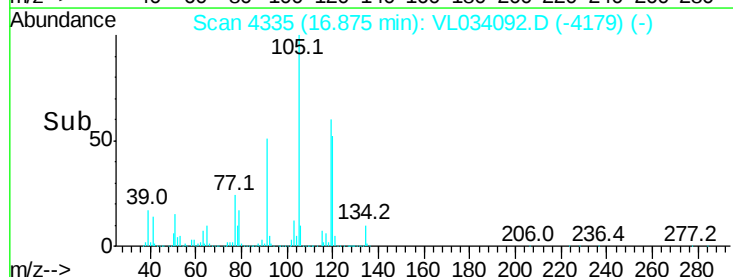
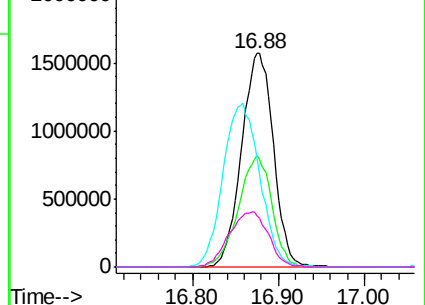


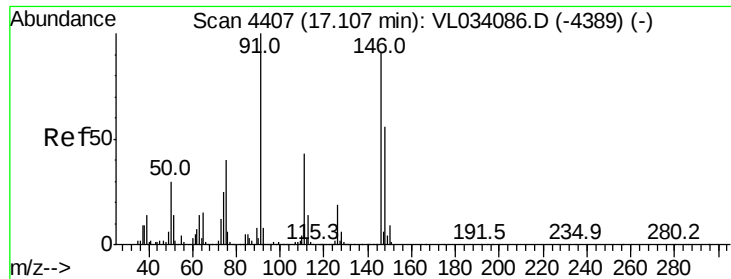
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 12.040 ppbv

RT: 17.11 min Scan# 4409

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

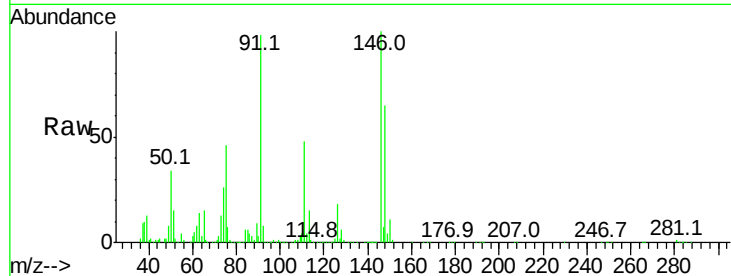
Tgt Ion:146 Resp: 2420834

Ion Ratio Lower Upper

146 100

111 48.4 23.8 71.5

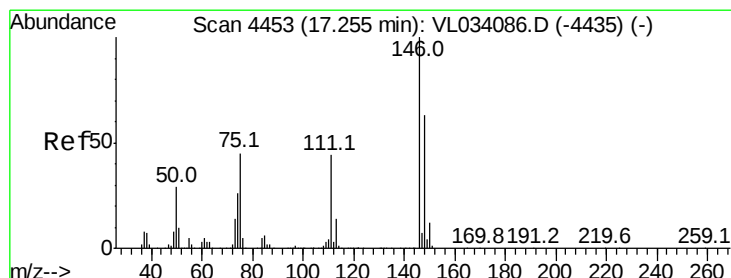
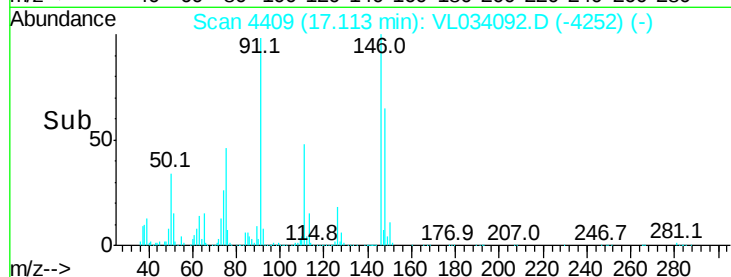
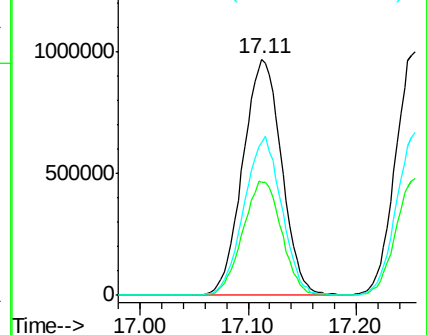
148 65.3 32.4 97.2



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



#76

1,4-Dichlorobenzene

Concen: 13.047 ppbv

RT: 17.26 min Scan# 4454

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

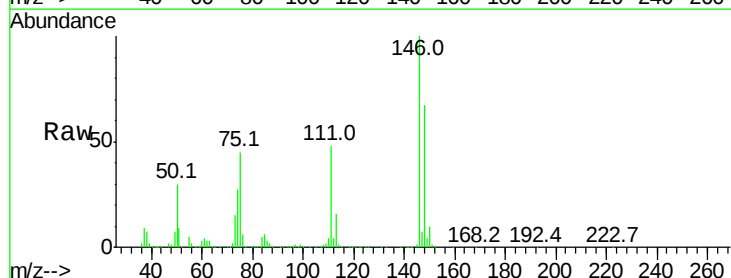
Tgt Ion:146 Resp: 2477123

Ion Ratio Lower Upper

146 100

111 47.1 23.2 69.5

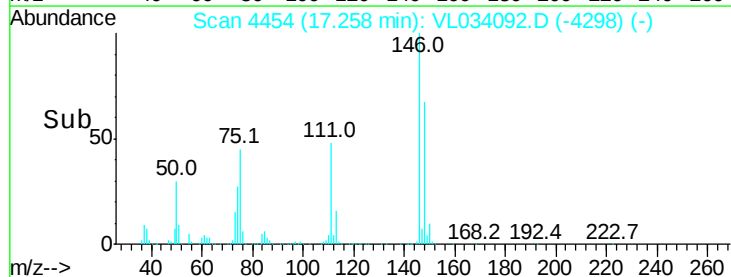
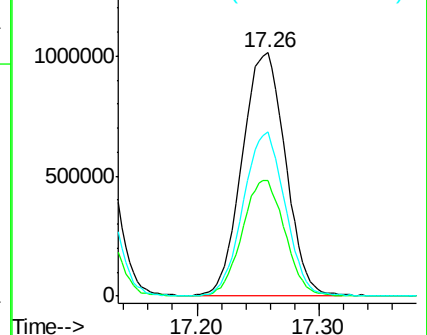
148 65.6 32.1 96.5

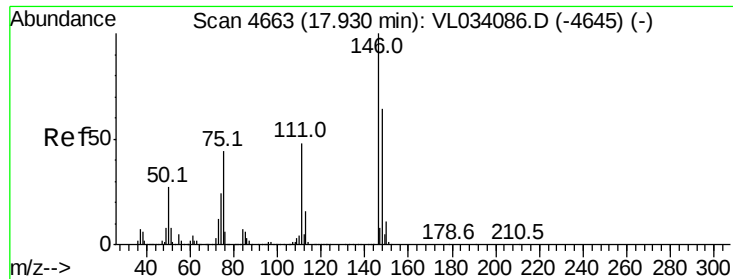


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

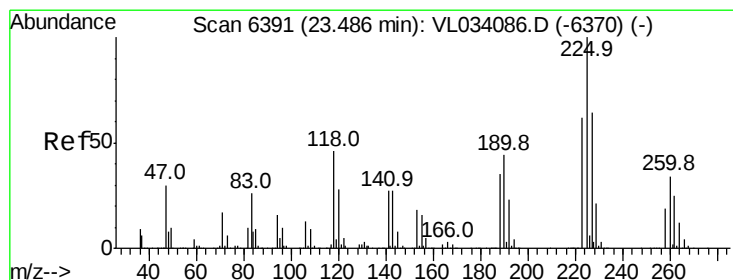
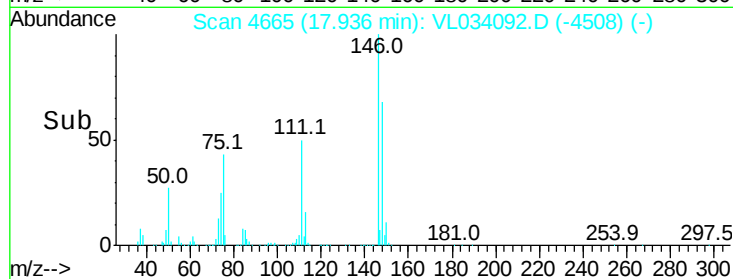
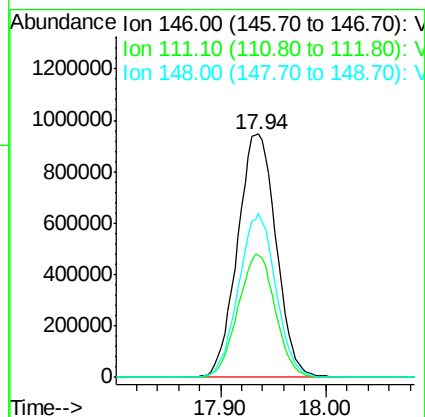
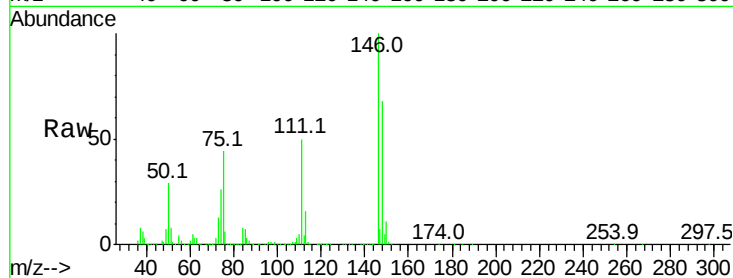




#77
 1,2-Dichlorobenzene
 Concen: 12.714 ppbv
 RT: 17.94 min Scan# 4665
 Delta R.T. 0.01 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

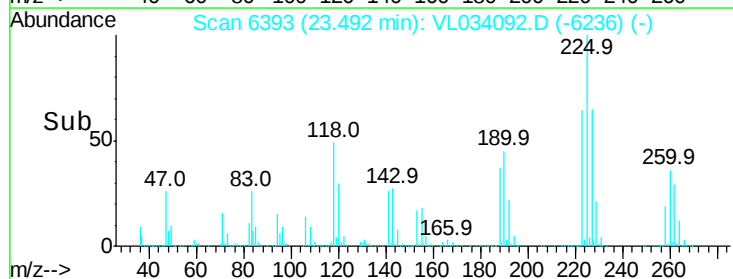
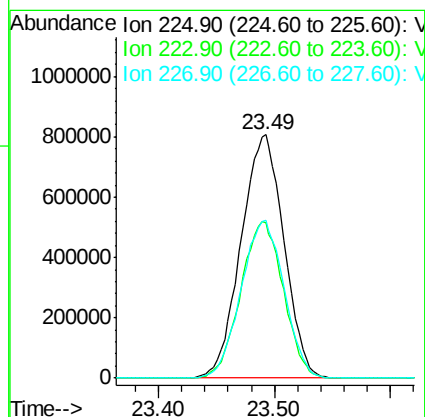
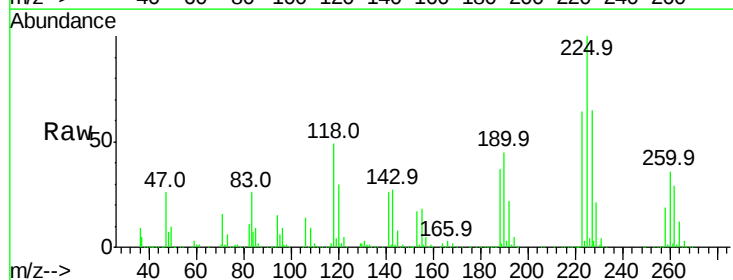
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

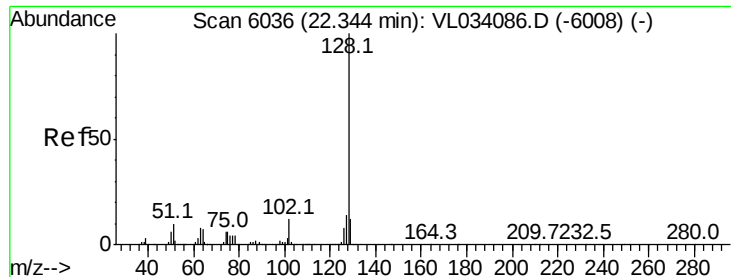
Tgt Ion:146 Resp: 2400824
 Ion Ratio Lower Upper
 146 100
 111 49.1 24.0 72.0
 148 65.2 31.9 95.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.979 ppbv
 RT: 23.49 min Scan# 6393
 Delta R.T. 0.01 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion:225 Resp: 2075330
 Ion Ratio Lower Upper
 225 100
 223 63.9 50.8 76.2
 227 65.1 52.2 78.2



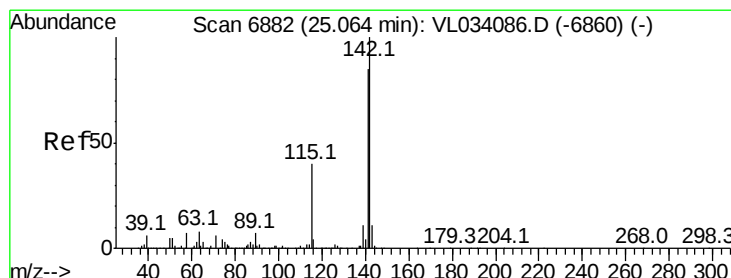
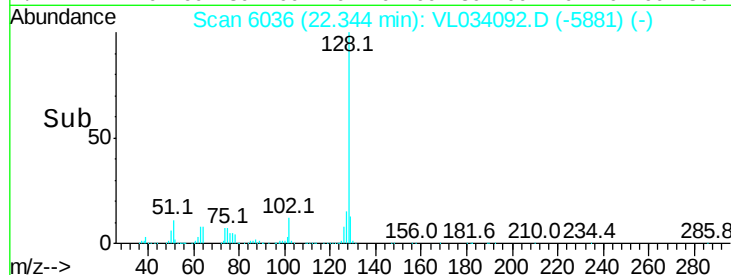
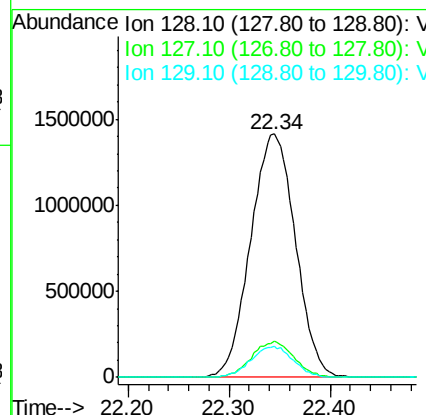
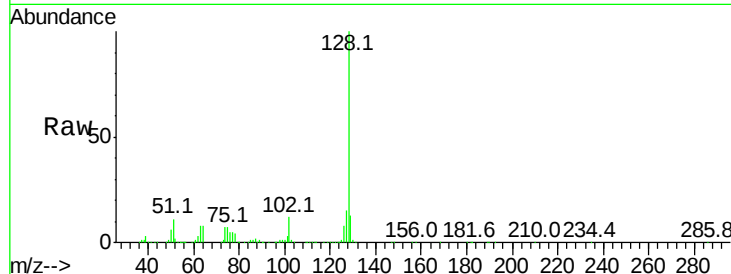


#79
Naphthalene
Concen: 14.333 ppbv
RT: 22.34 min Scan# 6036
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:128 Resp: 4357822

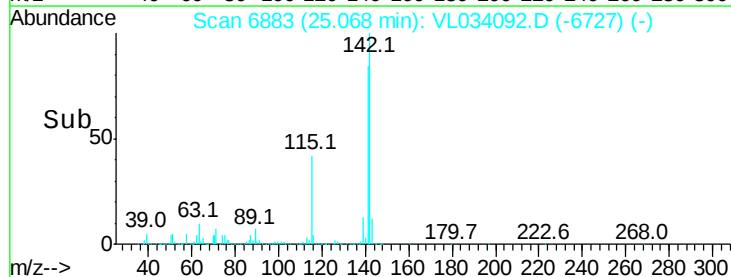
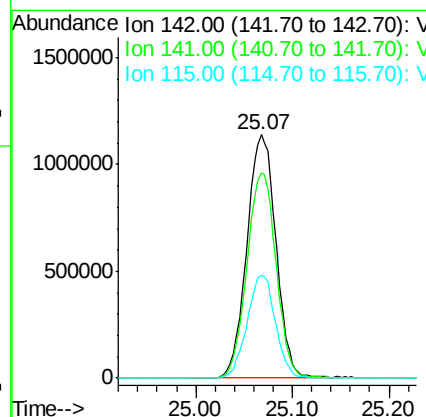
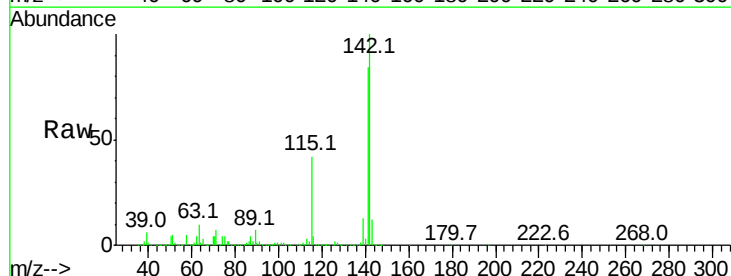
Ion	Ratio	Lower	Upper
128	100		
127	15.0	11.0	16.6
129	12.8	9.2	13.8

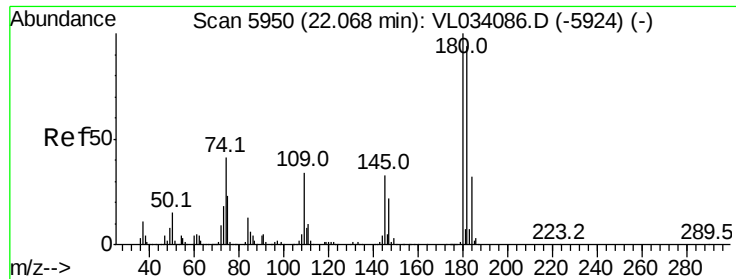


#80
Naphthalene, 2-methyl-
Concen: 20.413 ppbv
RT: 25.07 min Scan# 6883
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion:142 Resp: 2381836

Ion	Ratio	Lower	Upper
142	100		
141	84.7	66.1	99.1
115	41.1	30.8	46.2

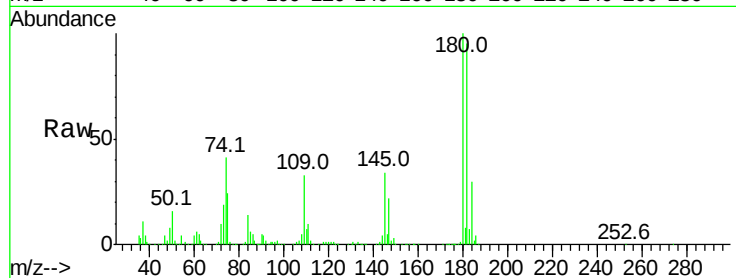




#81
 1,2,4-Trichlorobenzene
 Concen: 12.787 ppbv
 RT: 22.07 min Scan# 5950
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 2404552
 Ion Ratio Lower Upper
 180 100
 182 96.3 76.7 115.1
 184 31.6 25.0 37.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

