

Data File : VL035334.D
Acq On : 5 Aug 2020 9:20
Operator : SY/AP
Sample : VSTDIC002
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Quant Time: Aug 05 10:05:08 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 09:32:28 2020
QLast Update : Wed Aug 05 09:32:28 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1448294	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3644616	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3536752	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2866300	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.00	85	349626	1.845	ppbv	98
3) Chlorodifluoromethane	2.94	51	356267	2.140	ppbv	97
4) Chloromethane	3.10	50	200685	2.111	ppbv	91
5) Vinyl Chloride	3.21	62	199302	2.154	ppbv	100
6) Bromomethane	3.43	94	122168	2.007	ppbv	89
7) Chloroethane	3.51	64	75485	2.052	ppbv	94
8) Dichlorotetrafluoroethane	3.14	85	480443	2.102	ppbv	99
9) Propene	2.96	41	127447	2.119	ppbv	98
10) Heptane	8.12	43	328377	2.127	ppbv	99
11) Trichlorofluoromethane	3.92	101	526784	2.128	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	373180	2.163	ppbv	97
13) Ethanol	3.57	45	25934	1.167	ppbv #	37
14) Bromoethene	3.70	108	149748	2.108	ppbv	99
15) Acetone	3.82	43	445894	2.129	ppbv	94
16) 1,3-Butadiene	3.28	39	160378	2.053	ppbv	93
17) tert-Butyl alcohol	4.26	59	408634	2.142	ppbv	99
18) 1,1-Dichloroethene	4.26	96	163630	2.107	ppbv	92
19) Isopropyl Alcohol	3.93	45	284342	2.161	ppbv #	98
20) Methylene Chloride	4.31	84	178286	1.864	ppbv	90
21) Allyl Chloride	4.38	41	254785	2.148	ppbv	96
22) trans-1,2-Dichloroethene	4.86	96	150099	1.948	ppbv	97
23) Vinyl Acetate	5.05	43	441907	2.129	ppbv #	96
24) 1,1-Dichloroethane	4.99	63	395781	2.050	ppbv	99
25) Ethyl Acetate	5.66	43	683491	2.159	ppbv	99
26) Hexane	5.67	57	306749	2.164	ppbv	99
27) Carbon Disulfide	4.52	76	398247	2.088	ppbv	98
28) Methyl tert-Butyl Ether	5.01	73	436123	2.048	ppbv	100
29) Chloroform	5.73	83	498362	2.079	ppbv	93
30) Cyclohexane	7.13	84	218400	2.054	ppbv	94
31) cis-1,2-Dichloroethene	5.53	61	262007	2.004	ppbv	94
32) 1,1,1-Trichloroethane	6.50	97	470509	2.029	ppbv	99
34) 2-Butanone	5.23	43	406369	2.118	ppbv	97
35) Carbon Tetrachloride	7.01	117	500339	2.123	ppbv	93
36) Benzene	6.89	78	542119	2.029	ppbv	96
37) 1,2-Dichloroethane	6.30	62	367939	2.033	ppbv	100
38) Trichloroethene	7.84	130	228345	2.326	ppbv	97
39) 1,2-Dichloropropane	7.62	63	218234	2.072	ppbv	90
40) 1,4-Dioxane	7.85	88	84063	1.838	ppbv #	1
41) Tetrahydrofuran	6.04	42	205189	2.168	ppbv	94
42) Bromodichloromethane	7.79	83	491263	1.989	ppbv	98
43) Methyl Methacrylate	8.02	69	229353	2.054	ppbv	100

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 09:32:28 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	990317	2.163	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	212597	1.784	ppbv #	81
46) cis-1,3-Dichloropropene	8.72	75	267403	1.874	ppbv	95
47) 1,1,2-Trichloroethane	9.49	97	101143	0.828	ppbv	96
48) Dibromochloromethane	10.32	129	417923	2.102	ppbv	98
49) Bromoform	13.06	173	181313	1.047	ppbv #	27
50) 4-Methyl-2-Pentanone	8.75	43	623932	2.302	ppbv	99
51) 2-Hexanone	10.15	43	498060	2.375	ppbv #	96
52) Tetrachloroethene	11.24	164	204733	2.175	ppbv	94
53) Toluene	9.82	91	595176	2.118	ppbv	99
54) 1,2-Dibromoethane	10.63	107	359910	1.989	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.15	131	344681	2.077	ppbv #	1
57) Chlorobenzene	12.17	112	556841	2.057	ppbv	96
58) Ethyl Benzene	12.73	91	831489	2.146	ppbv	98
59) m/p-Xylene	13.01	91	817888	2.287	ppbv #	46
60) o-Xylene	13.72	91	779528	2.205	ppbv	96
61) Styrene	13.55	104	469021	2.158	ppbv	98
62) Isopropylbenzene	14.70	105	1135599	2.130	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.70	83	583290	2.104	ppbv	100
64) n-propylbenzene	15.59	120	291716	2.091	ppbv	79
65) tert-Butylbenzene	16.78	119	1063734	2.228	ppbv	97
66) Benzyl Chloride	17.02	91	374523	2.029	ppbv	98
67) sec-Butylbenzene	17.33	105	1536395	2.276	ppbv	96
69) p-Isopropyltoluene	17.69	119	1255570	2.248	ppbv	99
70) n-Butylbenzene	18.59	91	1344159	2.237	ppbv	96
71) 2-Chlorotoluene	15.48	91	856874	2.153	ppbv	96
72) 4-Ethyltoluene	15.87	105	867504	2.175	ppbv	98
73) 1,3,5-Trimethylbenzene	16.03	105	843367	2.159	ppbv	93
74) 1,2,4-Trimethylbenzene	16.80	105	952500	2.126	ppbv	98
75) 1,3-Dichlorobenzene	17.03	146	585935	2.103	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	540873	2.051	ppbv	98
77) 1,2-Dichlorobenzene	17.85	146	544396	2.119	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	475363	2.278	ppbv	99
79) Naphthalene	22.26	128	697075	1.966	ppbv	98
80) Naphthalene,2-methyl-	25.01	142	58540	0.562	ppbv	91
81) 1,2,4-Trichlorobenzene	21.98	180	221545	1.027	ppbv #	12

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

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ALS Vial    : 1 Sample Multipl
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Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

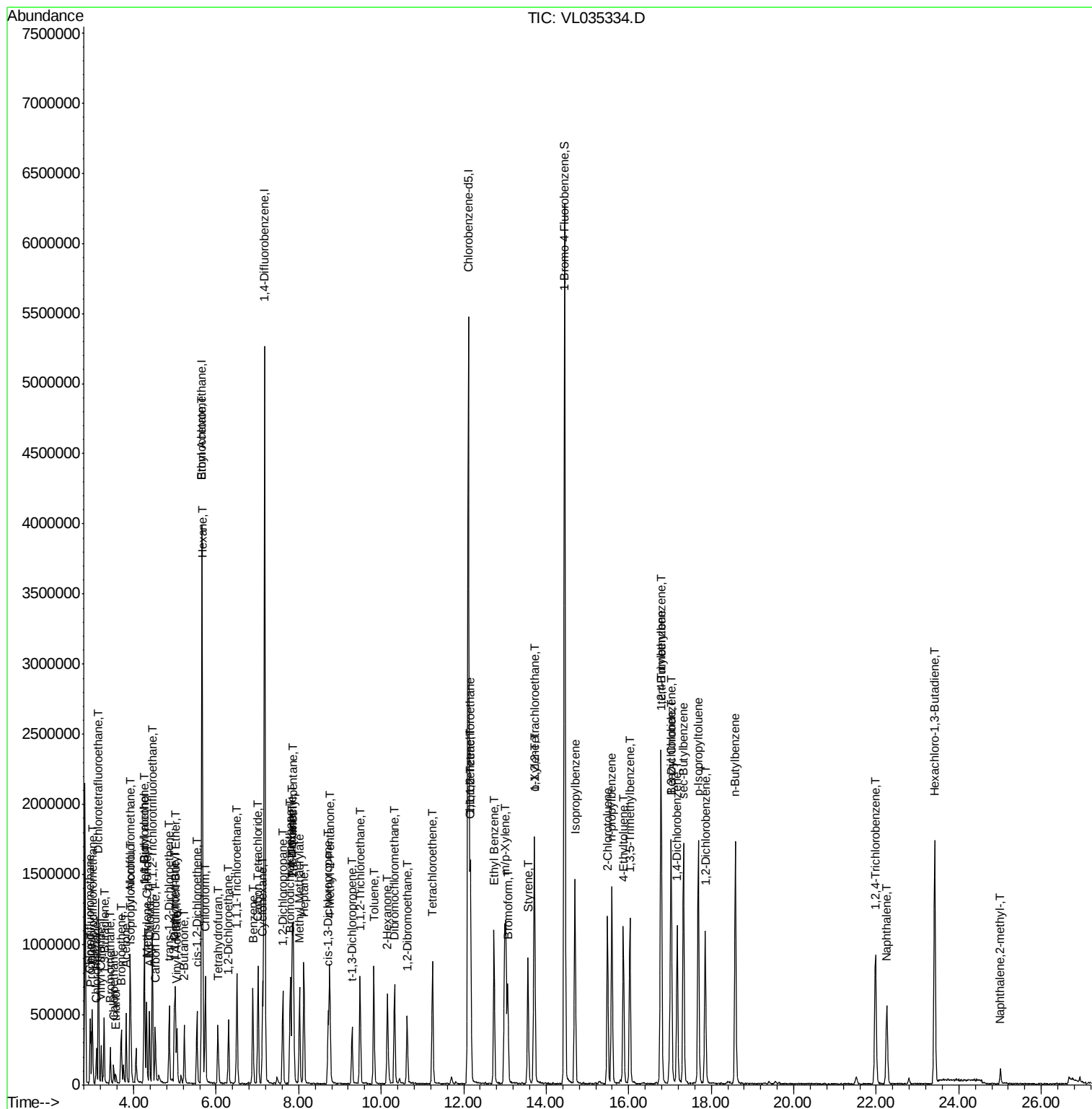
Quant Time: Aug 05 10:05:08 2020

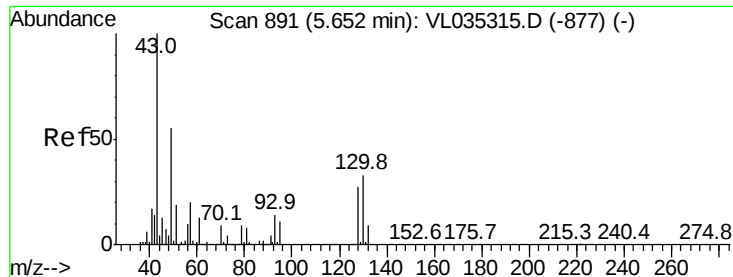
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL080520AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC002

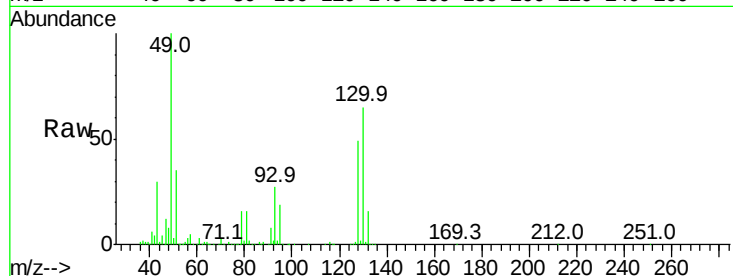
Tgt Ion: 49 Resp: 1448294

Ion Ratio Lower Upper

49 100

128 50.0 25.4 76.0

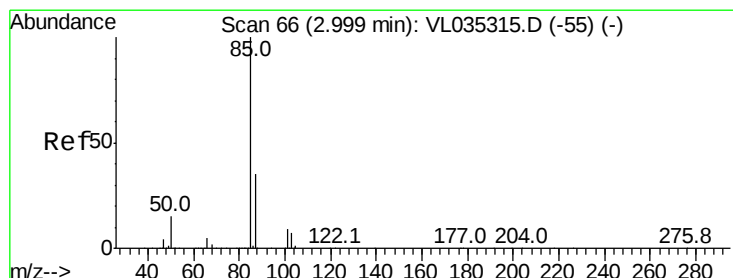
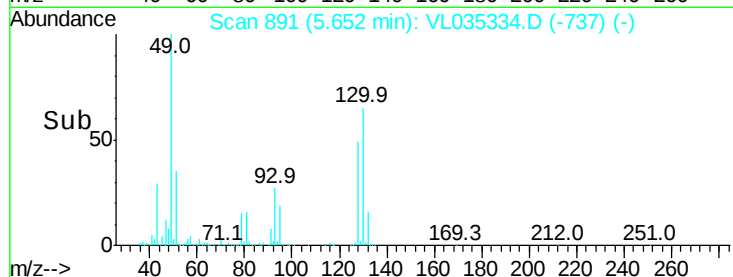
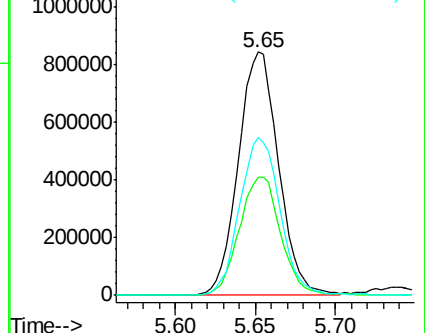
130 65.6 32.1 96.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.845 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035334.D

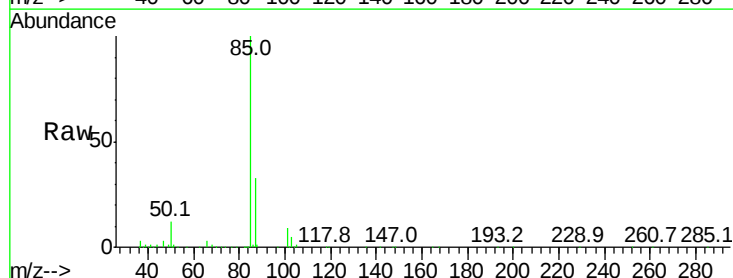
Acq: 5 Aug 2020 9:20

Tgt Ion: 85 Resp: 349626

Ion Ratio Lower Upper

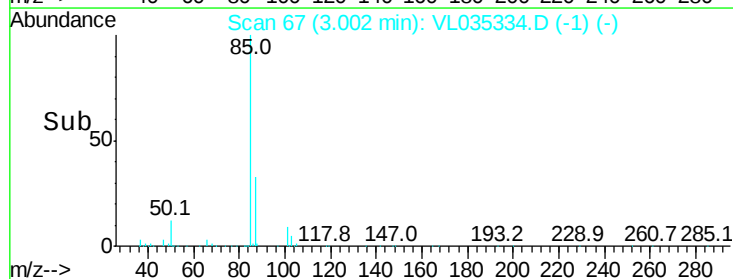
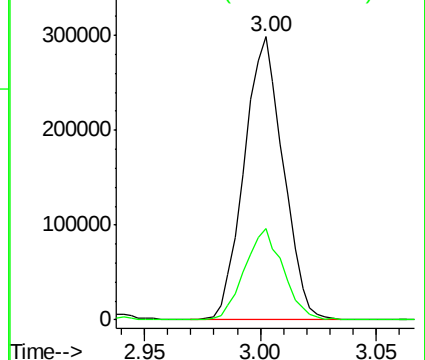
85 100

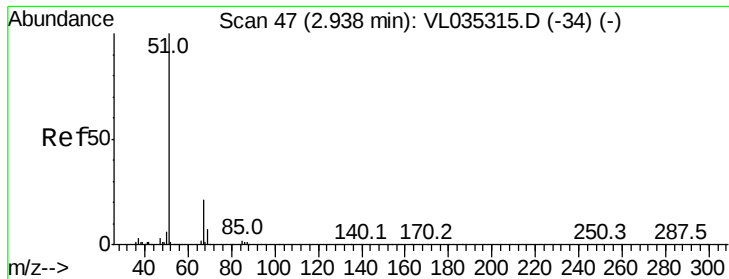
87 32.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.140 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Instrument :

MSVOA_L

ClientSampleId :

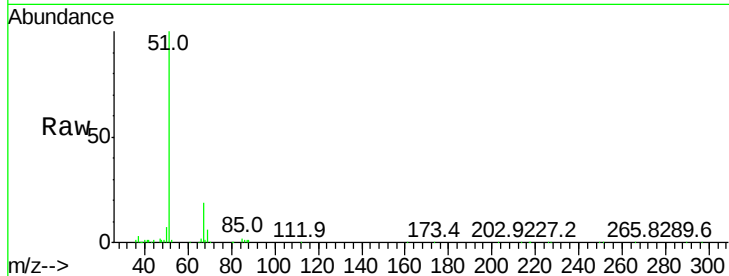
VSTDIC002

Tgt Ion: 51 Resp: 356267

Ion Ratio Lower Upper

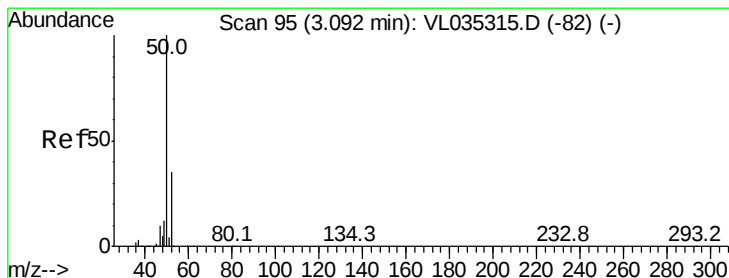
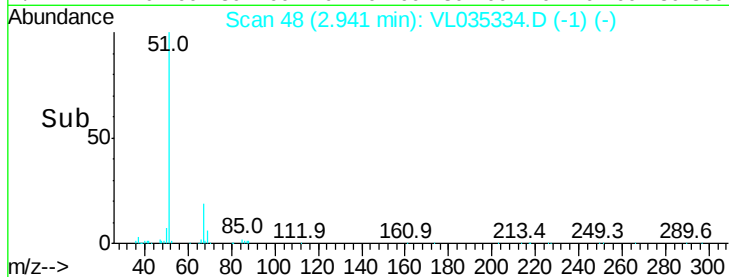
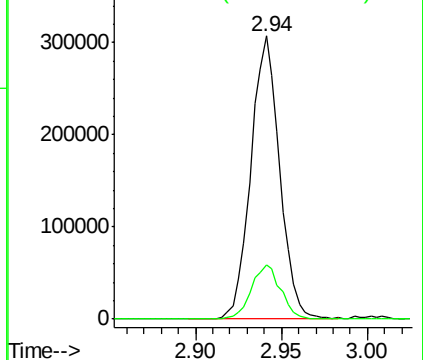
51 100

67 19.6 16.6 25.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 2.111 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL035334.D

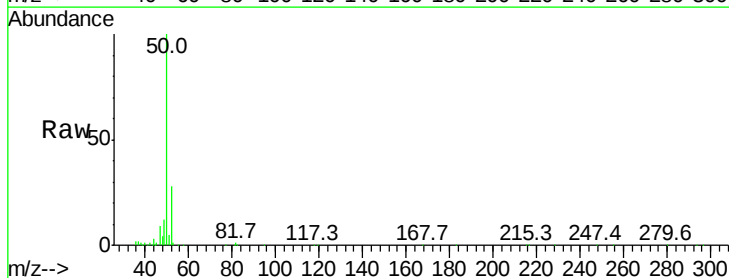
Acq: 5 Aug 2020 9:20

Tgt Ion: 50 Resp: 200685

Ion Ratio Lower Upper

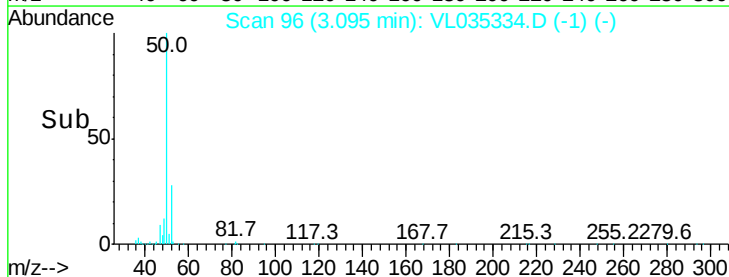
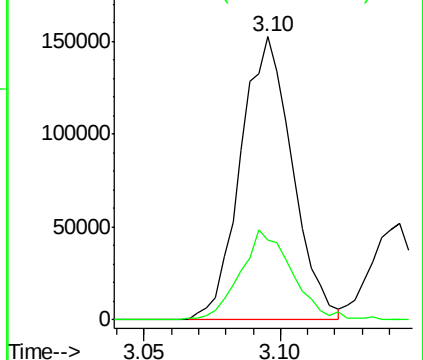
50 100

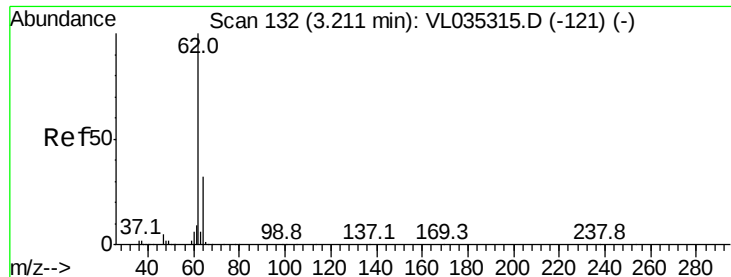
52 27.5 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 2.154 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Instrument :

MSVOA_L

ClientSampleId :

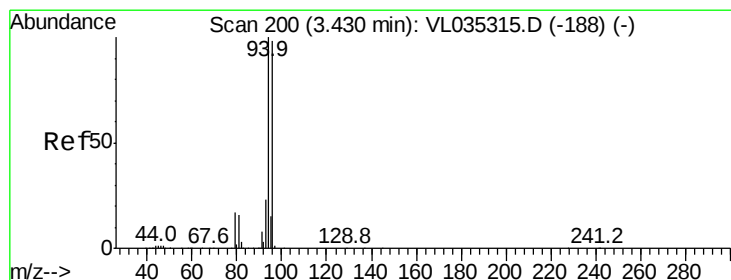
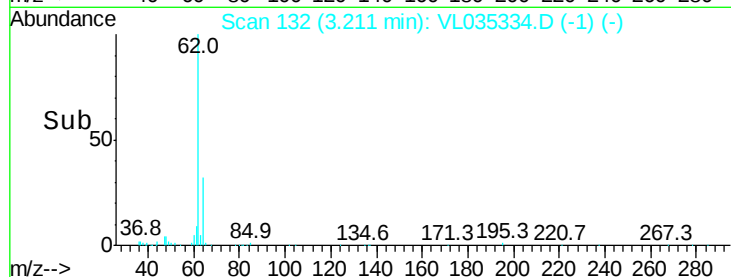
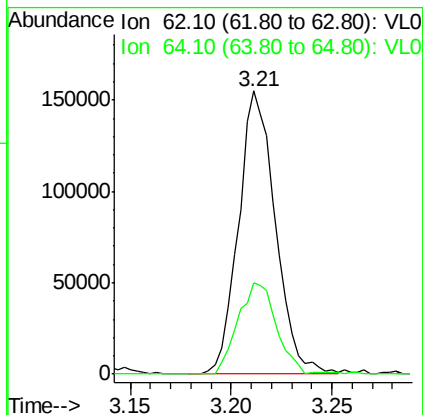
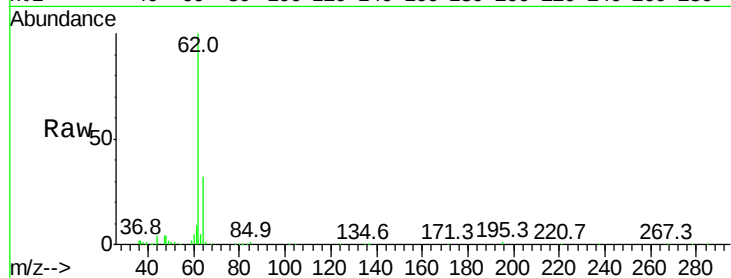
VSTDIC002

Tgt Ion: 62 Resp: 199302

Ion Ratio Lower Upper

62 100

64 32.2 25.8 38.6



#6

Bromomethane

Concen: 2.007 ppbv

RT: 3.43 min Scan# 201

Delta R.T. -0.00 min

Lab File: VL035334.D

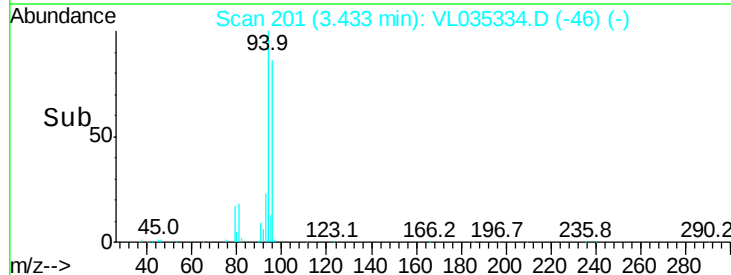
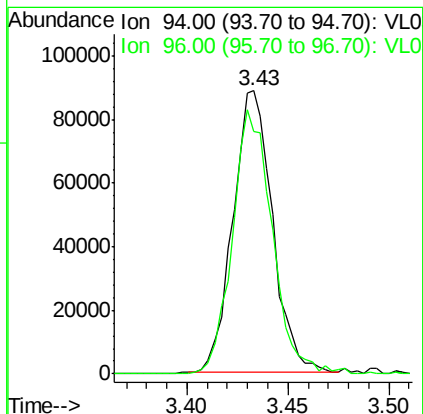
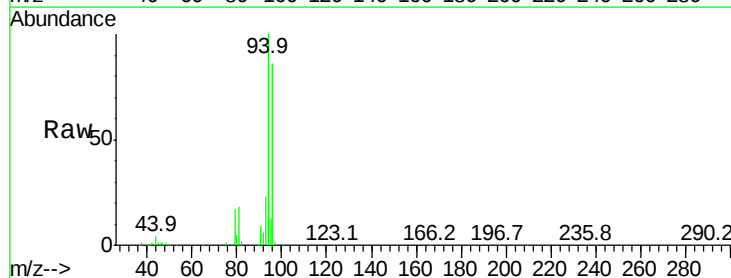
Acq: 5 Aug 2020 9:20

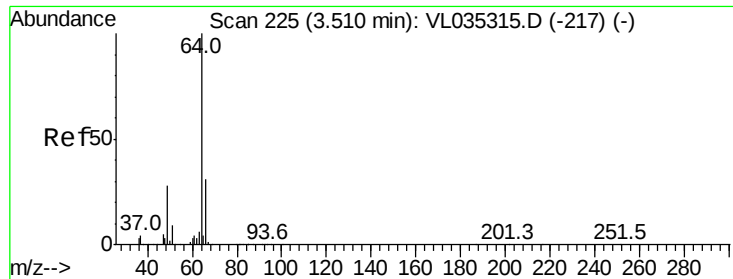
Tgt Ion: 94 Resp: 122168

Ion Ratio Lower Upper

94 100

96 86.2 77.3 115.9





#7

Chloroethane

Concen: 2.052 ppbv

RT: 3.51 min Scan# 226

Delta R.T. -0.01 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Instrument :

MSVOA_L

ClientSampleId :

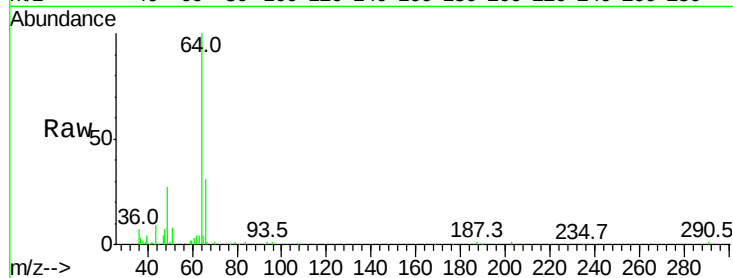
VSTDIC002

Tgt Ion: 64 Resp: 75485

Ion Ratio Lower Upper

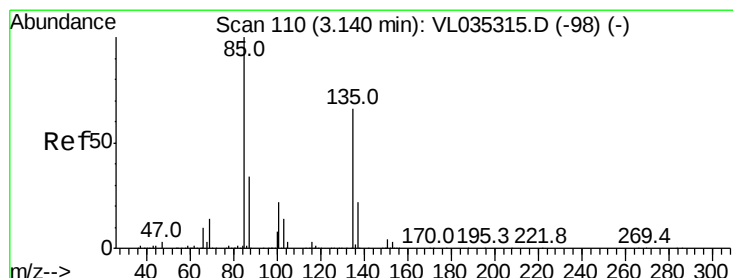
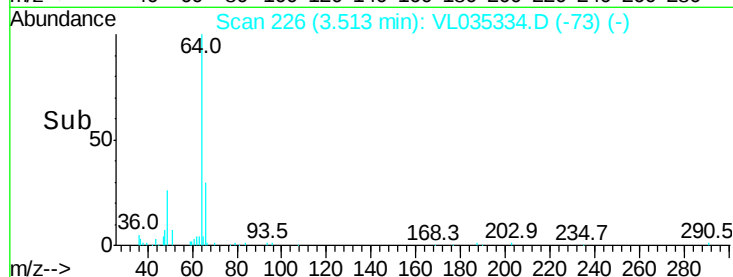
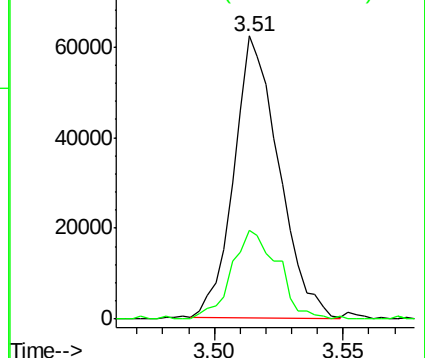
64 100

66 31.8 23.0 34.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 2.102 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL035334.D

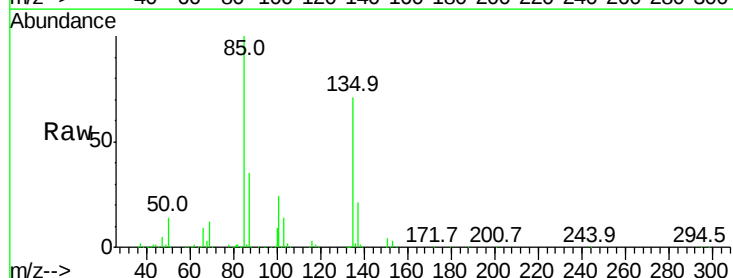
Acq: 5 Aug 2020 9:20

Tgt Ion: 85 Resp: 480443

Ion Ratio Lower Upper

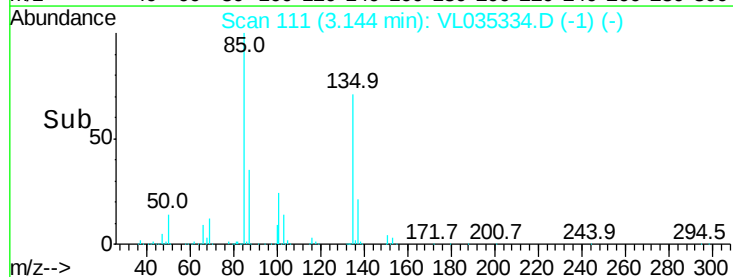
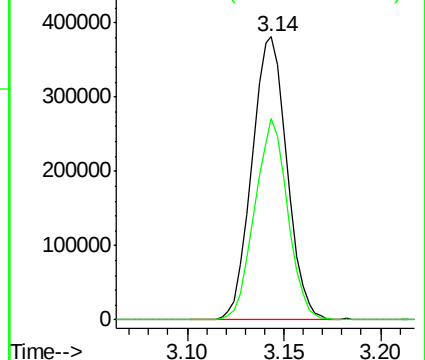
85 100

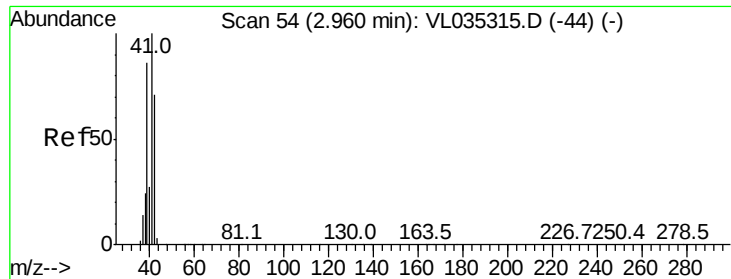
135 67.2 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 2.119 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Instrument :

MSVOA_L

ClientSampleId :

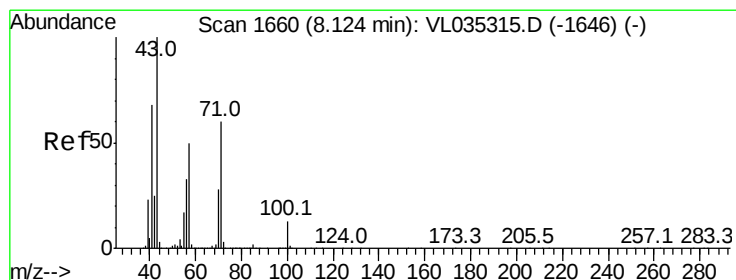
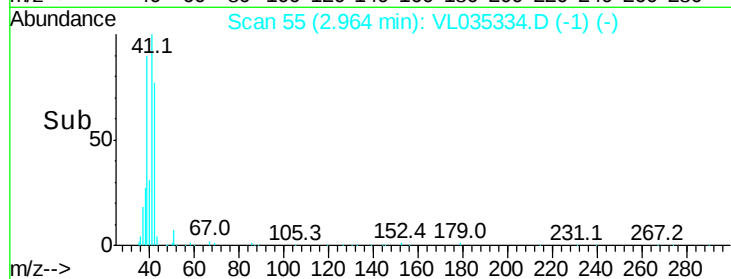
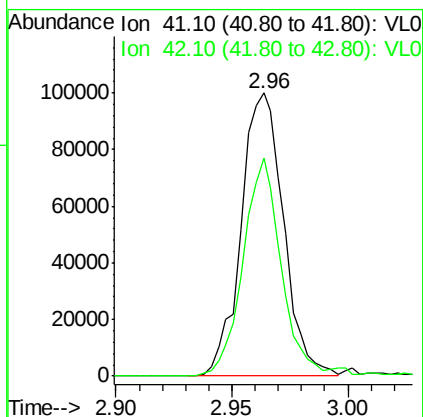
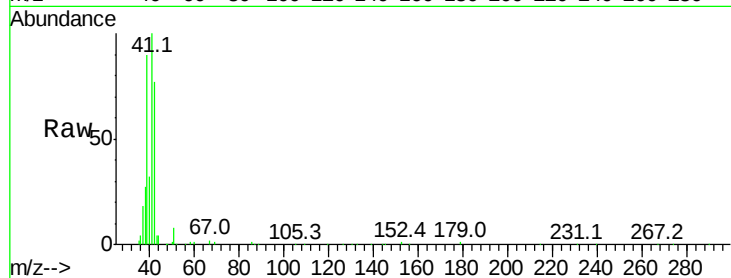
VSTDIC002

Tgt Ion: 41 Resp: 127447

Ion Ratio Lower Upper

41 100

42 70.9 55.3 82.9



#10

Heptane

Concen: 2.127 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VL035334.D

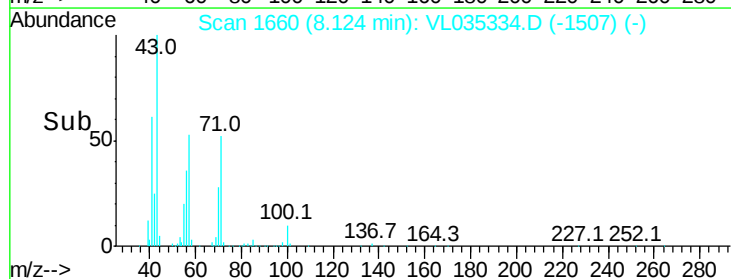
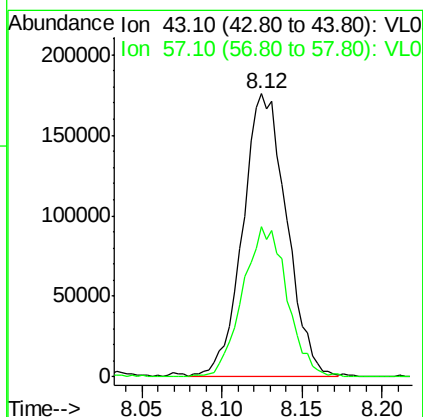
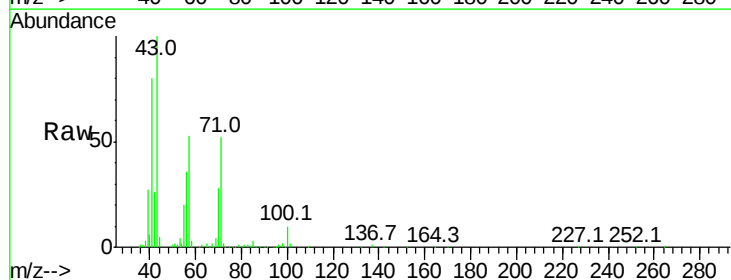
Acq: 5 Aug 2020 9:20

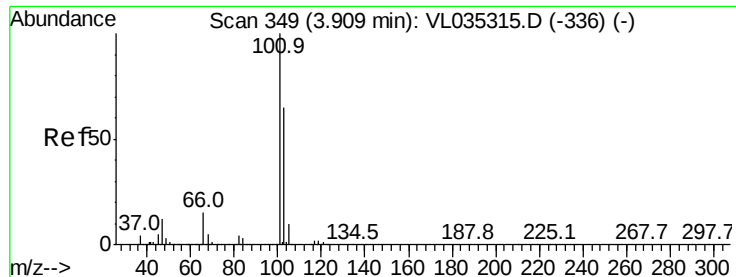
Tgt Ion: 43 Resp: 328377

Ion Ratio Lower Upper

43 100

57 54.3 43.0 64.6





#11

Trichlorofluoromethane

Concen: 2.128 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Instrument :

MSVOA_L

ClientSampleId :

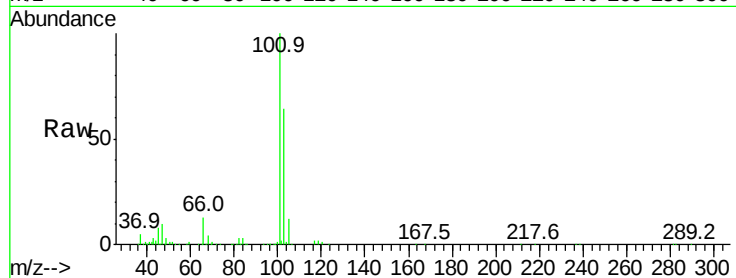
VSTDIC002

Tgt Ion:101 Resp: 526784

Ion Ratio Lower Upper

101 100

103 64.3 53.8 80.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.92

400000

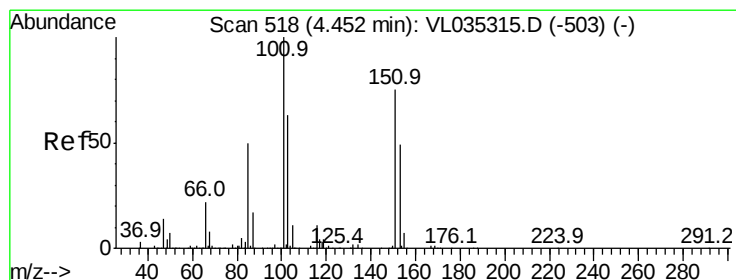
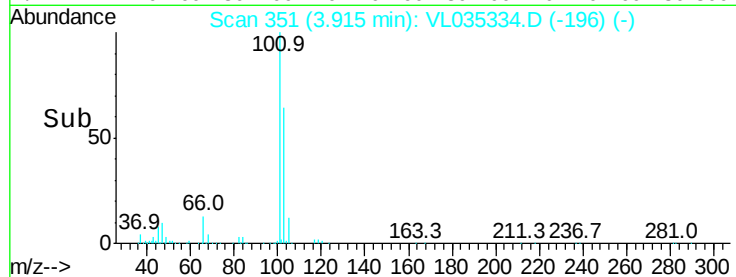
300000

200000

100000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.163 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL035334.D

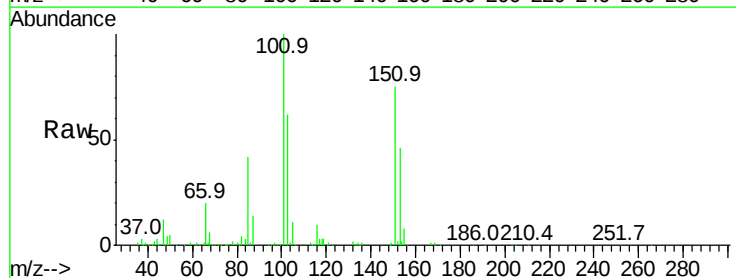
Acq: 5 Aug 2020 9:20

Tgt Ion:101 Resp: 373180

Ion Ratio Lower Upper

101 100

151 72.2 59.5 89.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.46

250000

200000

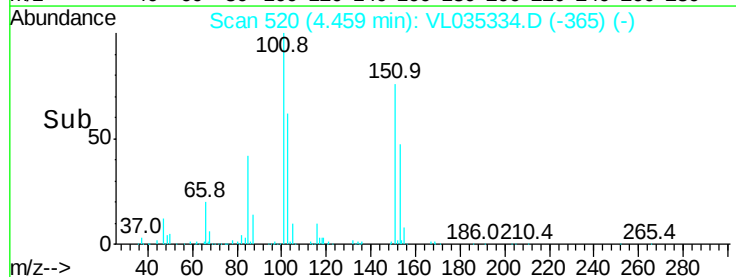
150000

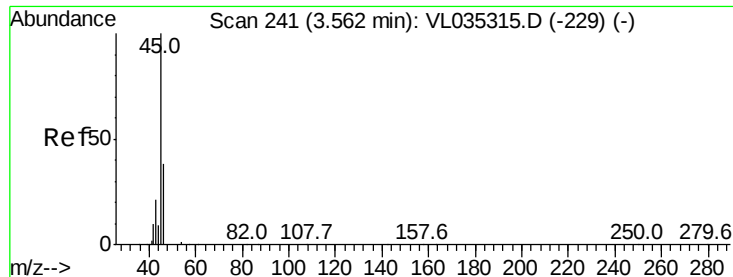
100000

50000

0

Time-->





#13

Ethanol

Concen: 1.167 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Instrument :

MSVOA_L

ClientSampleId :

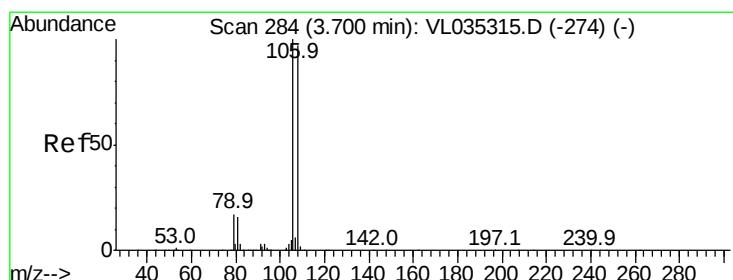
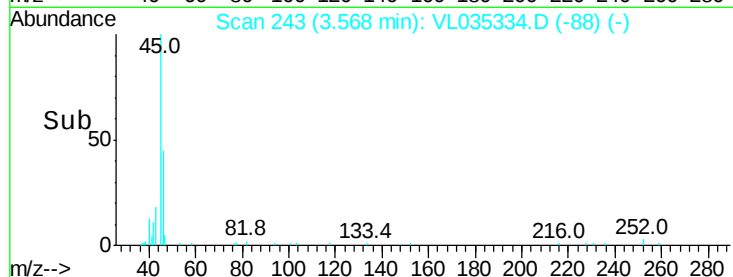
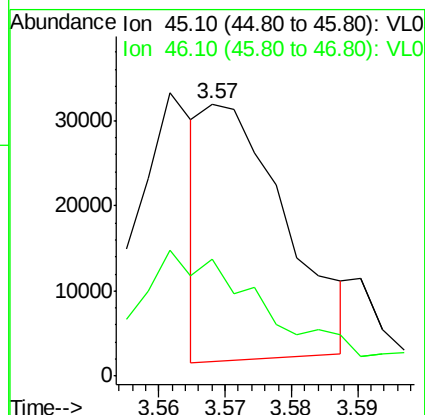
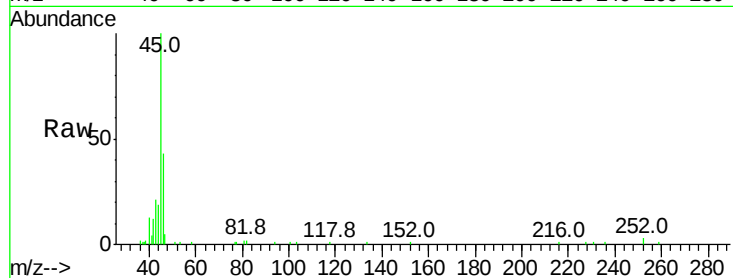
VSTDIC002

Tgt Ion: 45 Resp: 25934

Ion Ratio Lower Upper

45 100

46 0.0 15.2 61.0#



#14

Bromoethene

Concen: 2.108 ppbv

RT: 3.70 min Scan# 284

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

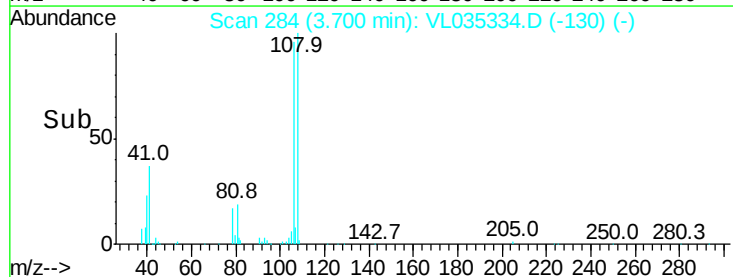
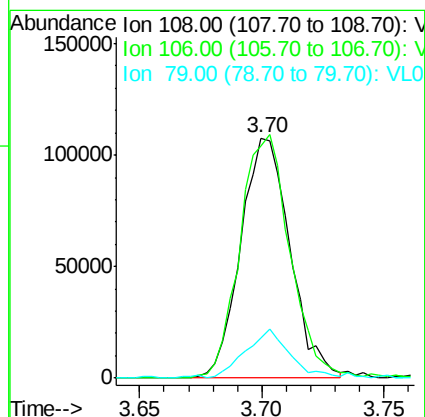
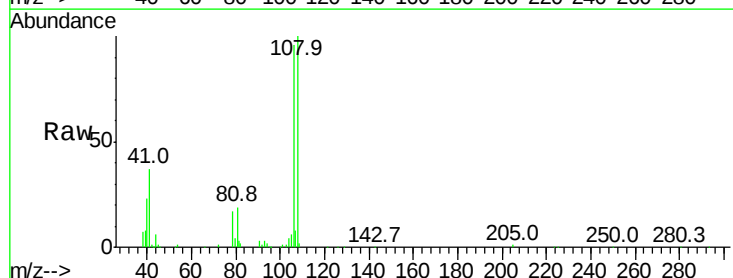
Tgt Ion: 108 Resp: 149748

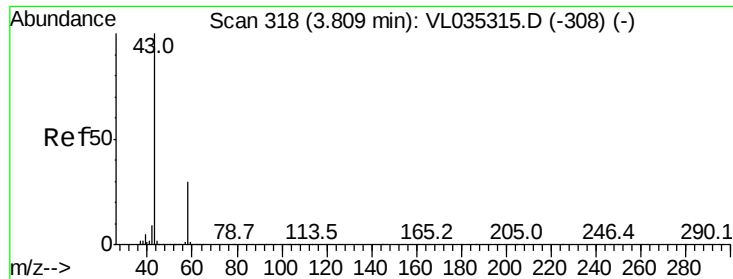
Ion Ratio Lower Upper

108 100

106 104.8 85.0 127.6

79 19.3 15.0 22.6





#15

Acetone

Concen: 2.129 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Instrument :

MSVOA_L

ClientSampleId :

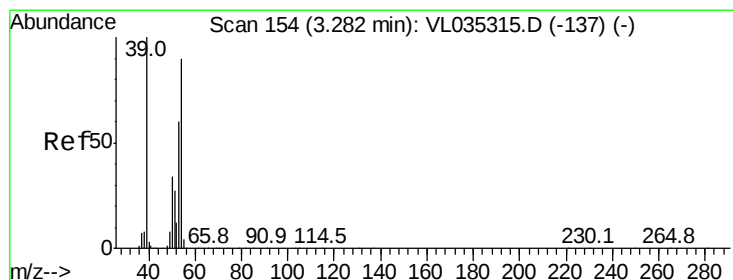
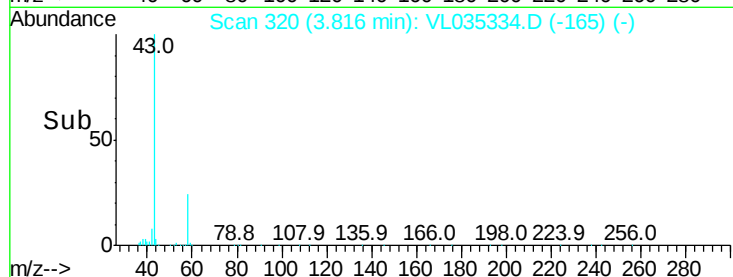
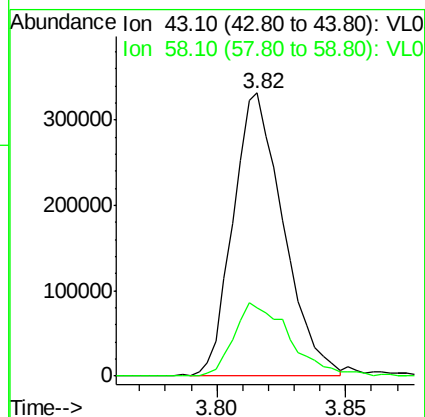
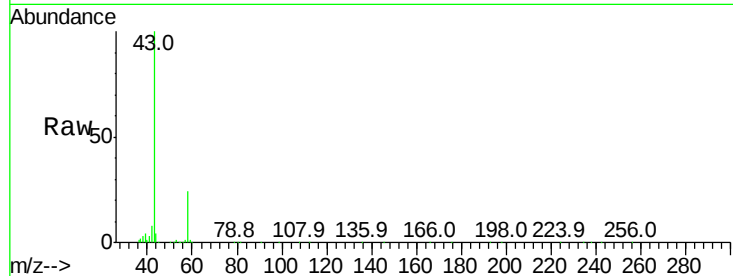
VSTDIC002

Tgt Ion: 43 Resp: 445894

Ion Ratio Lower Upper

43 100

58 29.3 21.0 31.4



#16

1,3-Butadiene

Concen: 2.053 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.00 min

Lab File: VL035334.D

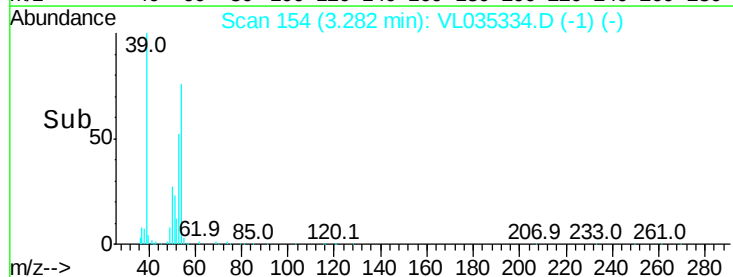
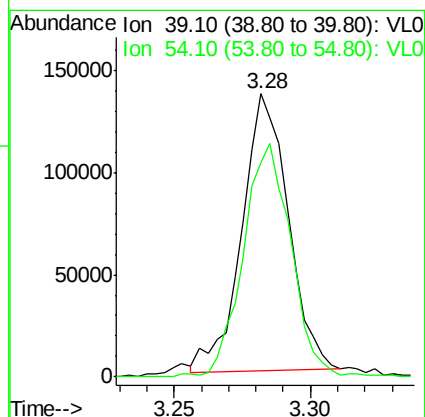
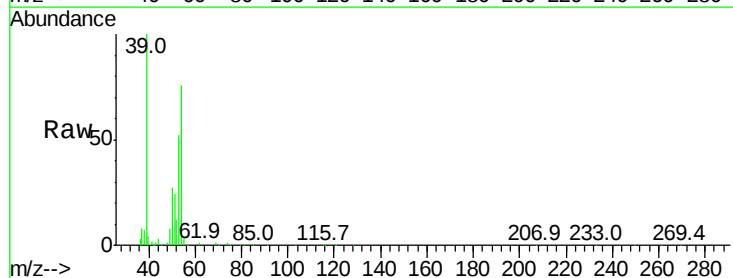
Acq: 5 Aug 2020 9:20

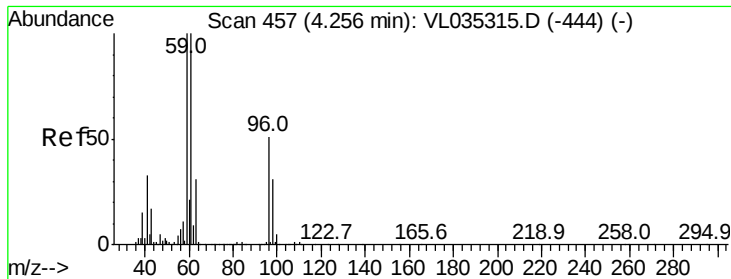
Tgt Ion: 39 Resp: 160378

Ion Ratio Lower Upper

39 100

54 87.0 64.4 96.6



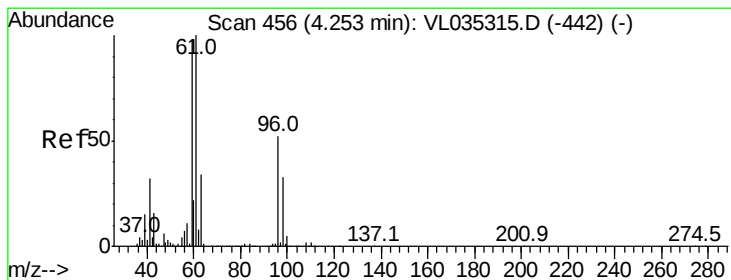
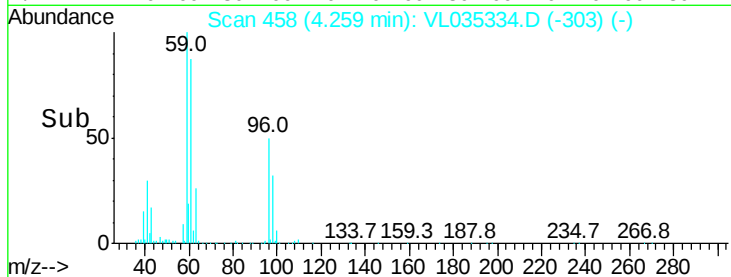
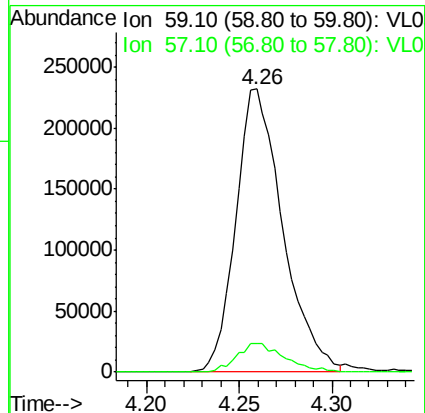
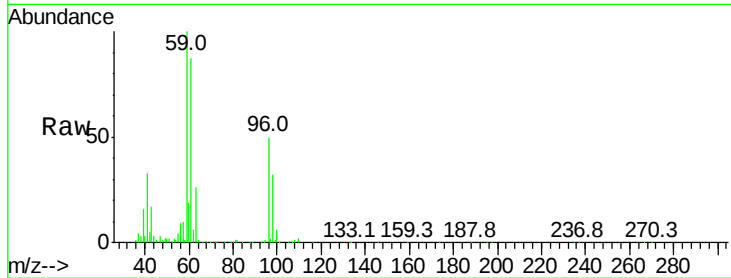


#17

tert-Butyl alcohol
Concen: 2.142 ppbv
RT: 4.26 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL035334.D
Acq: 5 Aug 2020 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

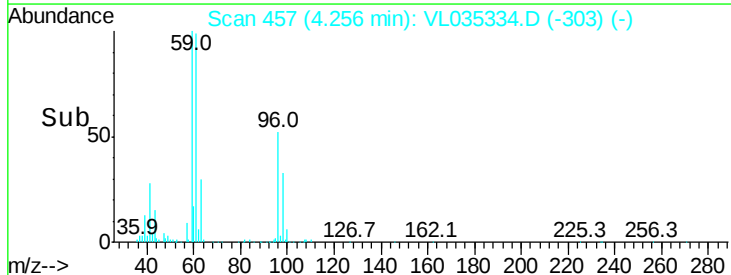
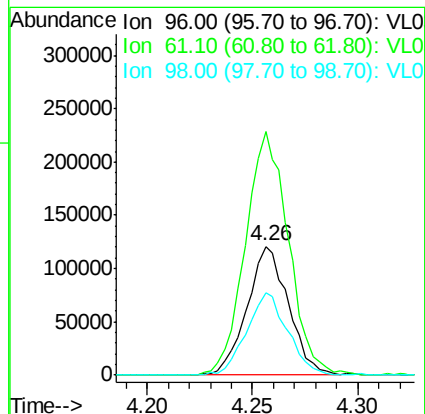
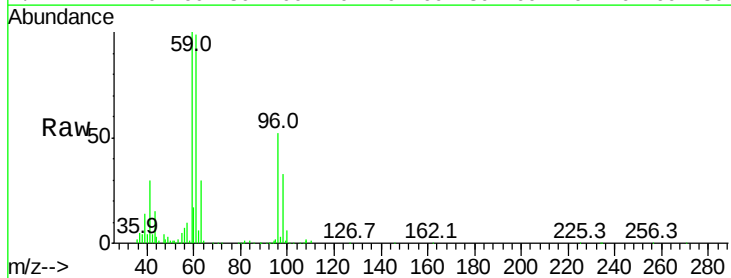
Tgt Ion: 59 Resp: 408634
Ion Ratio Lower Upper
59 100
57 10.6 8.8 13.2

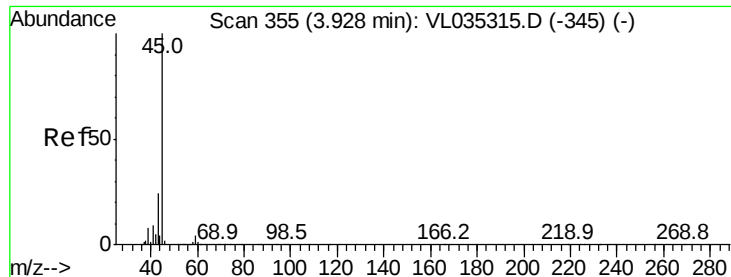


#18

1,1-Dichloroethene
Concen: 2.107 ppbv
RT: 4.26 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL035334.D
Acq: 5 Aug 2020 9:20

Tgt Ion: 96 Resp: 163630
Ion Ratio Lower Upper
96 100
61 189.5 161.4 242.2
98 63.6 56.0 84.0





#19

Isopropyl Alcohol

Concen: 2.161 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Instrument :

MSVOA_L

ClientSampleId :

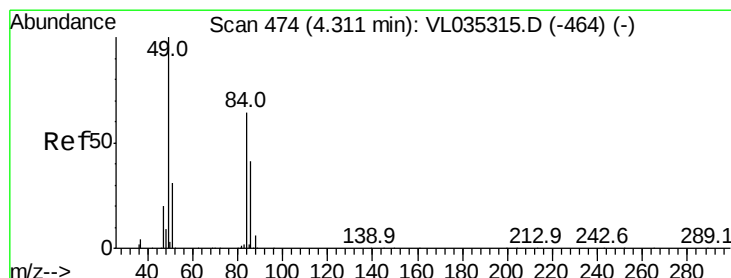
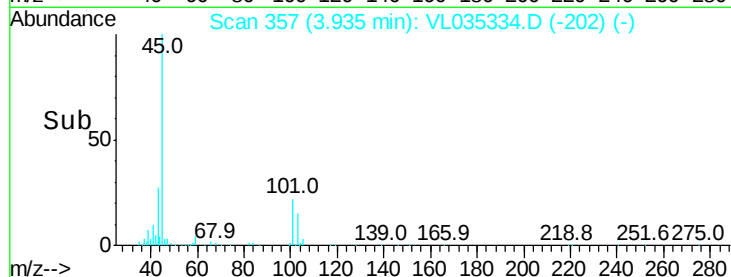
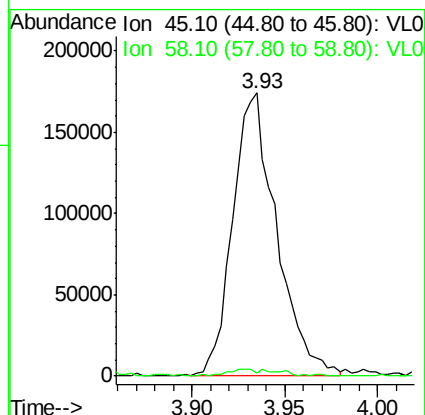
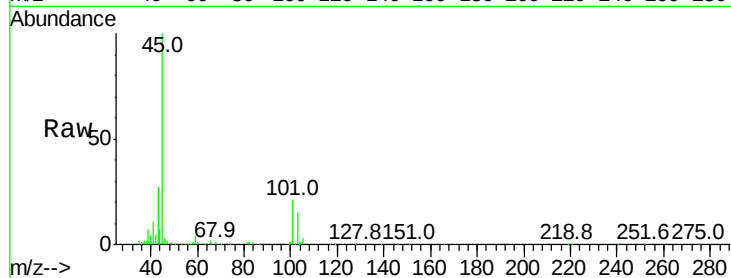
VSTDIC002

Tgt Ion: 45 Resp: 284342

Ion Ratio Lower Upper

45 100

58 3.1 1.9 2.9#



#20

Methylene Chloride

Concen: 1.864 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Tgt Ion: 84 Resp: 178286

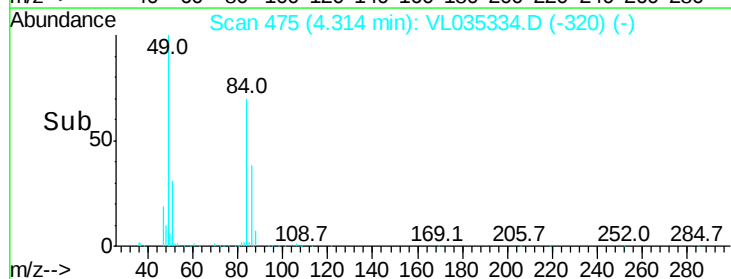
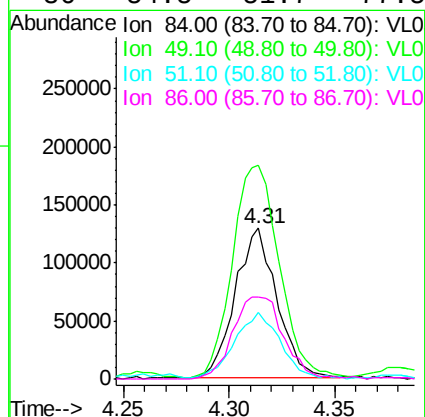
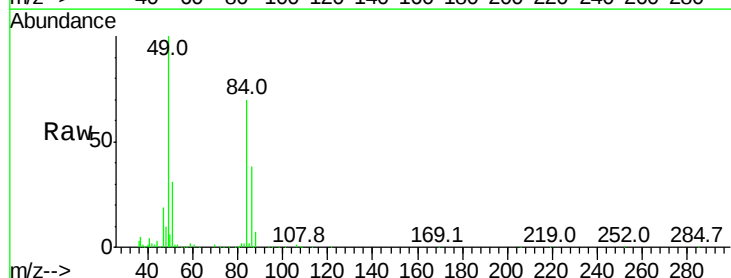
Ion Ratio Lower Upper

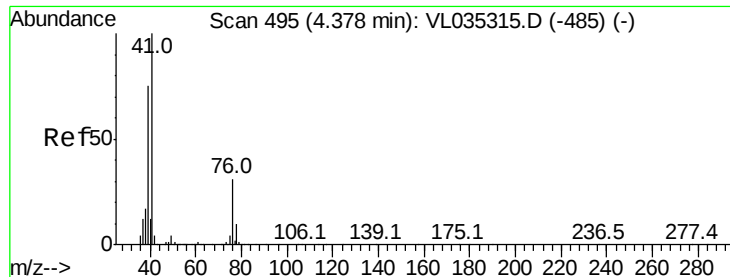
84 100

49 141.1 122.8 184.2

51 43.6 40.1 60.1

86 54.5 51.7 77.5

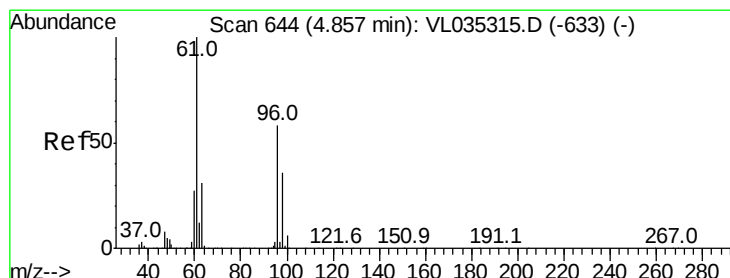
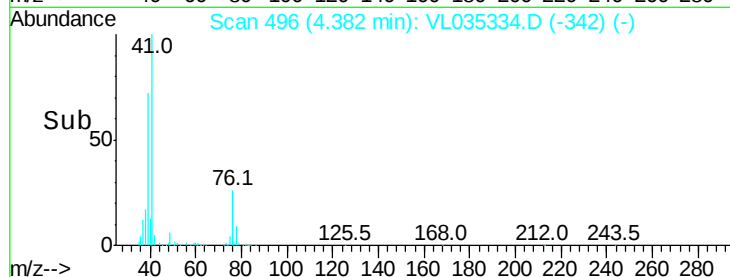
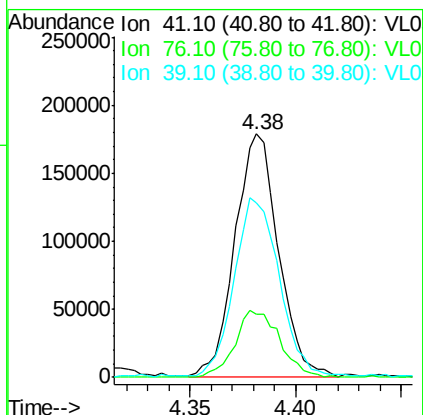
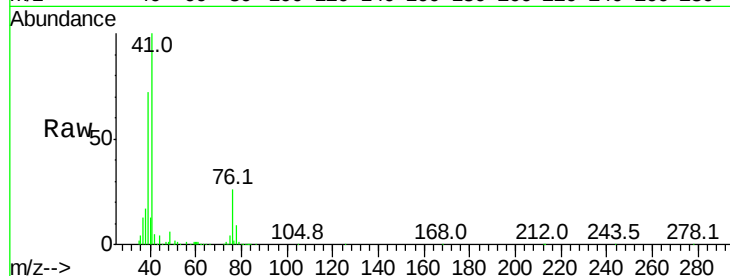




#21
 Allyl Chloride
 Concen: 2.148 ppbv
 RT: 4.38 min Scan# 496
 Delta R.T. -0.00 min
 Lab File: VL035334.D
 Acq: 5 Aug 2020 9:20

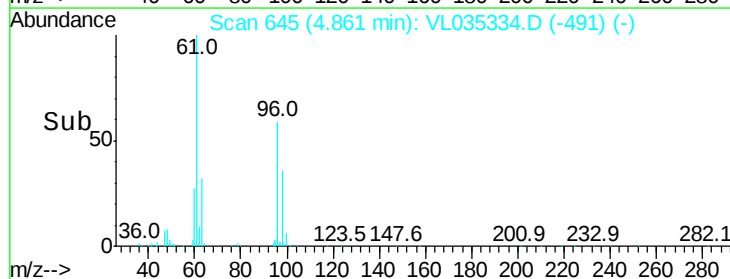
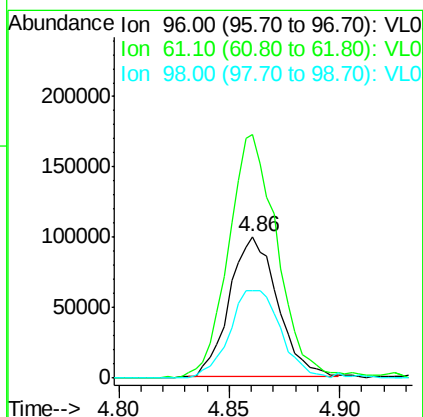
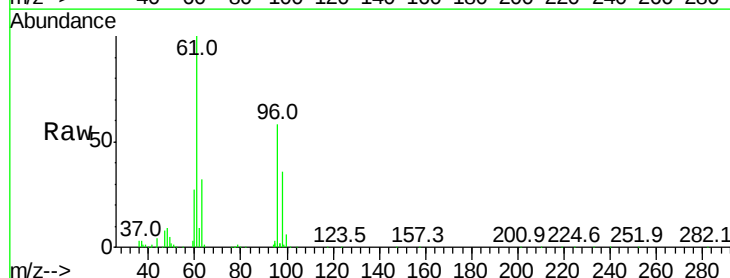
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

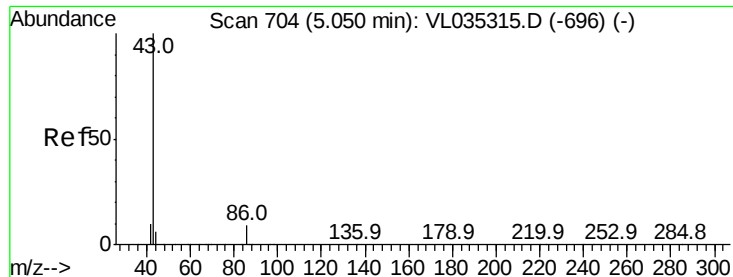
Tgt Ion: 41 Resp: 254785
 Ion Ratio Lower Upper
 41 100
 76 28.6 23.8 35.6
 39 76.9 65.0 97.6



#22
 trans-1,2-Dichloroethene
 Concen: 1.948 ppbv
 RT: 4.86 min Scan# 645
 Delta R.T. -0.00 min
 Lab File: VL035334.D
 Acq: 5 Aug 2020 9:20

Tgt Ion: 96 Resp: 150099
 Ion Ratio Lower Upper
 96 100
 61 170.4 138.5 207.7
 98 62.6 54.3 81.5





#23

Vinyl Acetate

Concen: 2.129 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 441907

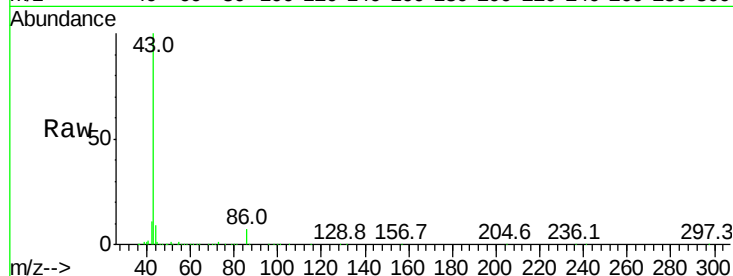
Ion Ratio Lower Upper

43 100

86 6.8 6.9 10.3#

42 10.5 8.8 13.2

44 8.5 5.0 7.6#

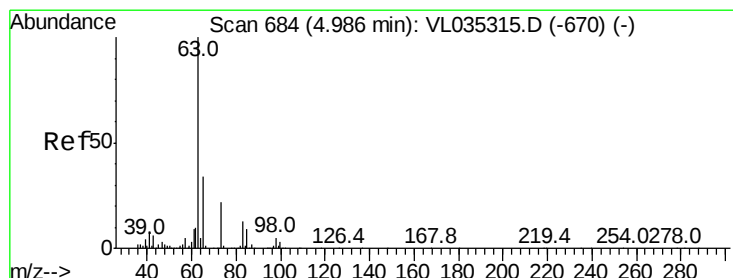
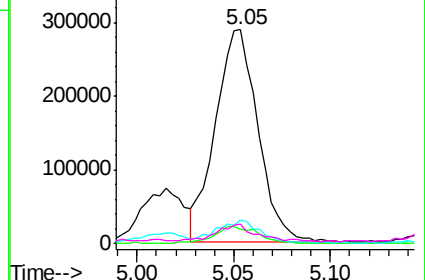
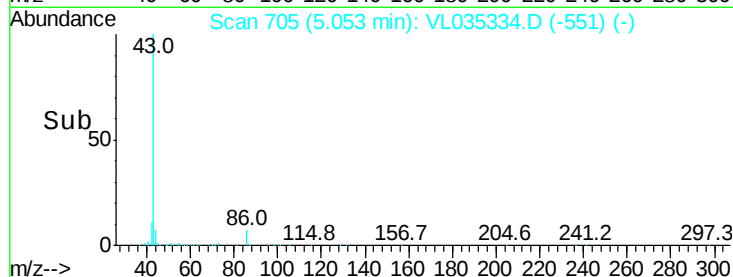


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.050 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.01 min

Lab File: VL035334.D

Acq: 5 Aug 2020 9:20

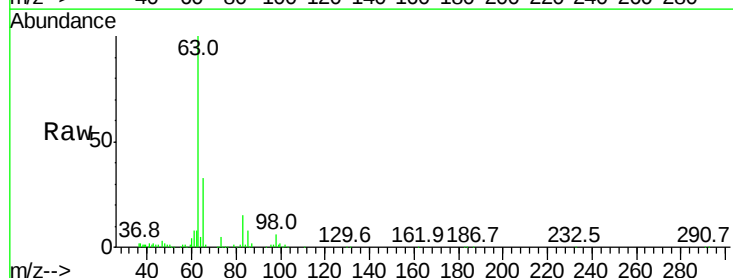
Tgt Ion: 63 Resp: 395781

Ion Ratio Lower Upper

63 100

98 5.3 2.5 7.5

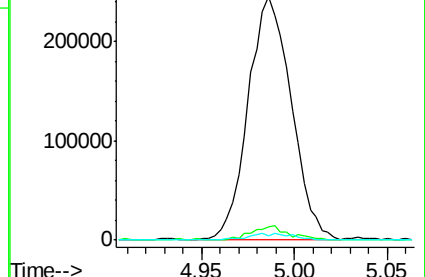
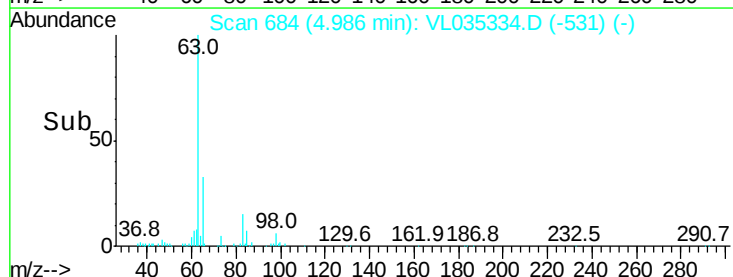
100 2.3 1.4 4.2

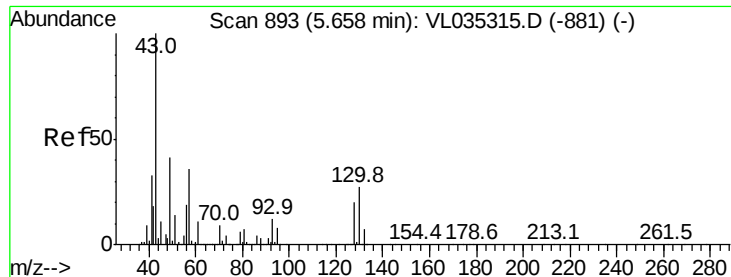


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

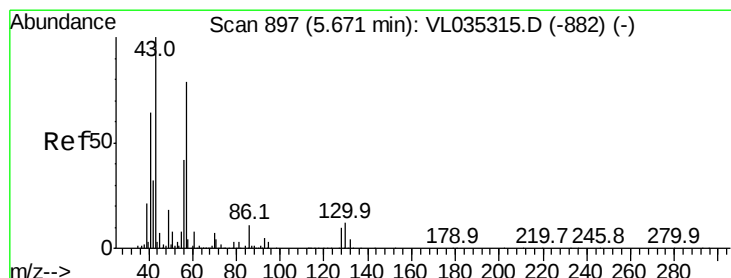
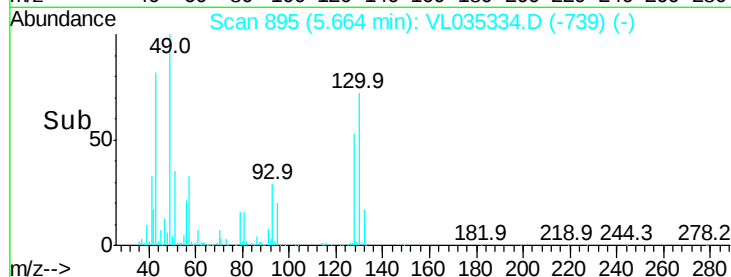
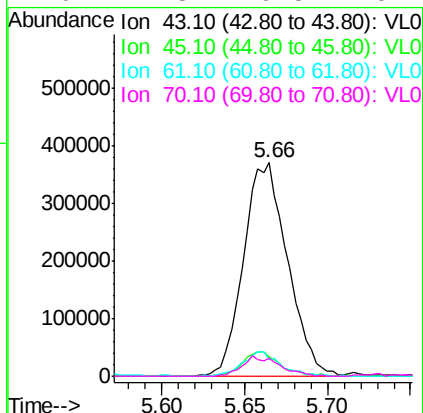
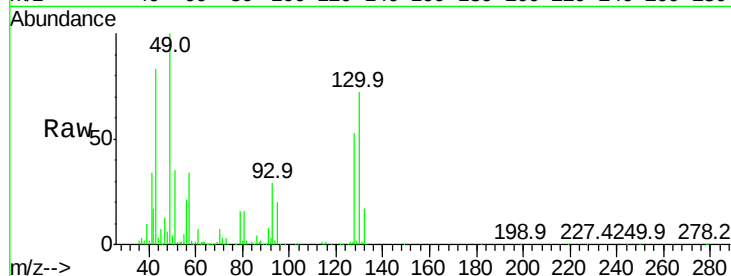




#25
Ethyl Acetate
Concen: 2.159 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL035334.D
Acq: 5 Aug 2020 9:20

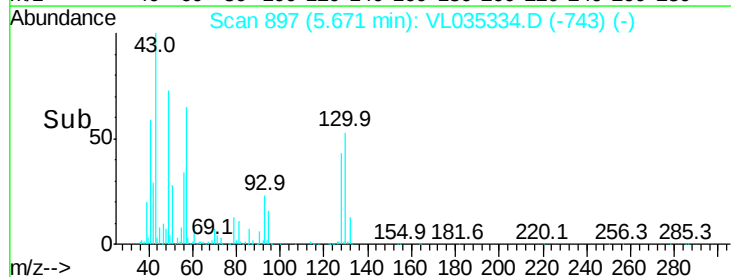
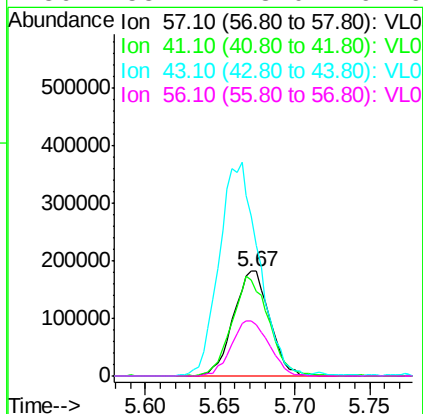
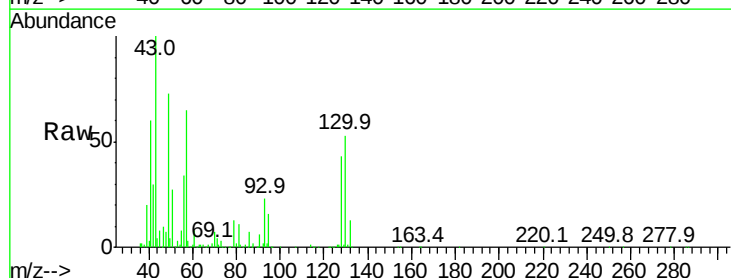
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

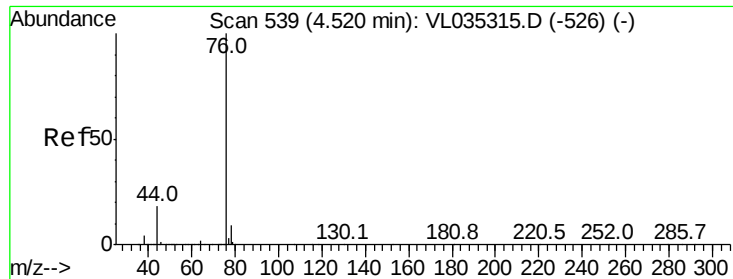
Tgt Ion:	43	Resp:	683491
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.5	12.7
61	10.0	8.1	12.1
70	7.8	6.5	9.7



#26
Hexane
Concen: 2.164 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL035334.D
Acq: 5 Aug 2020 9:20

Tgt Ion:	57	Resp:	306749
Ion	Ratio	Lower	Upper
57	100		
41	96.9	75.2	112.8
43	224.6	180.6	270.8
56	55.2	43.0	64.6

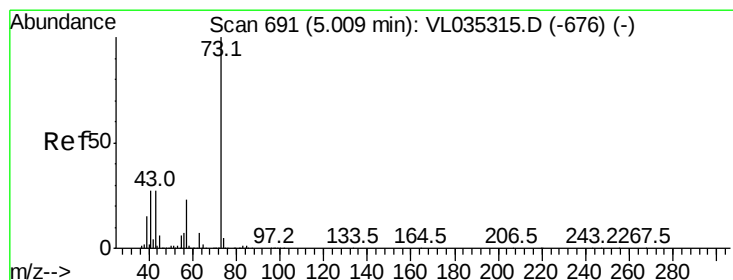
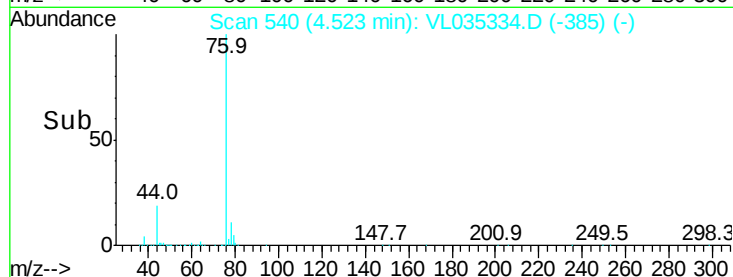
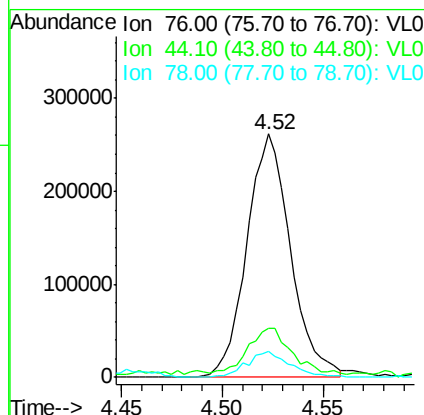
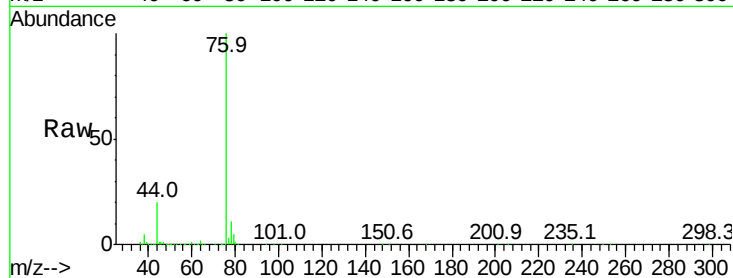




#27
Carbon Disulfide
Concen: 2.088 ppbv
RT: 4.52 min Scan# 540
Delta R.T. -0.00 min
Lab File: VL035334.D
Acq: 5 Aug 2020 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 76 Resp: 398247
Ion Ratio Lower Upper
76 100
44 19.6 15.4 23.2
78 10.7 7.7 11.5



#28
Methyl tert-Butyl Ether
Concen: 2.048 ppbv
RT: 5.01 min Scan# 692
Delta R.T. -0.00 min
Lab File: VL035334.D
Acq: 5 Aug 2020 9:20

Tgt Ion: 73 Resp: 436123
Ion Ratio Lower Upper
73 100
57 22.4 17.9 26.9

