

Data File : VL033256.D
Acq On : 8 Mar 2019 12:46
Operator : SY/AP
Sample : VSTDICCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Mar 08 16:11:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030819AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 08:43:44 2019
QLast Update : Wed Mar 06 08:43:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	903893	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2374339	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2952895	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1911722	8.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	85.30%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.07	85	1706359	13.364	ppbv 99
3) Chlorodifluoromethane	3.01	51	1016359	9.825	ppbv 100
4) Chloromethane	3.17	50	534616	10.039	ppbv 100
5) Vinyl Chloride	3.29	62	526726	8.821	ppbv 99
6) Bromomethane	3.51	94	325767	9.540	ppbv 98
7) Chloroethane	3.60	64	193540	9.700	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1284204	10.174	ppbv 99
9) Propene	3.04	41	452967	9.826	ppbv 100
10) Heptane	8.25	43	1358572	10.832	ppbv 100
11) Trichlorofluoromethane	4.00	101	1439794	9.603	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	952443	9.799	ppbv 100
13) Ethanol	3.64	45	88491	6.420	ppbv 98
14) Bromoethene	3.79	108	402696	9.834	ppbv 98
15) Acetone	3.90	43	933108	8.022	ppbv 100
16) 1,3-Butadiene	3.36	39	477982	10.290	ppbv 99
17) tert-Butyl alcohol	4.35	59	169534	8.943	ppbv 99
18) 1,1-Dichloroethene	4.35	96	425542	9.833	ppbv 99
19) Isopropyl Alcohol	4.02	45	595045	8.605	ppbv 99
20) Methylene Chloride	4.41	84	368627	8.362	ppbv 98
21) Allyl Chloride	4.48	41	660452	10.174	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	425697	9.636	ppbv 98
23) Vinyl Acetate	5.15	43	1578288	9.198	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1096923	8.967	ppbv 100
25) Ethyl Acetate	5.77	43	1915645	8.983	ppbv 99
26) Hexane	5.78	57	861718	8.644	ppbv 98
27) Carbon Disulfide	4.62	76	1088010	11.322	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1261148	9.173	ppbv 100
29) Chloroform	5.85	83	1419574	9.156	ppbv 100
30) Cyclohexane	7.25	84	827536	11.087	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	906441	9.414	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1439648	9.572	ppbv 99
34) 2-Butanone	5.33	43	1294872	7.871	ppbv 99
35) Carbon Tetrachloride	7.14	117	1565535	8.717	ppbv 96
36) Benzene	7.00	78	1789006	8.028	ppbv 100
37) 1,2-Dichloroethane	6.41	62	1121999	8.089	ppbv 100
38) Trichloroethene	7.96	130	771043	9.162	ppbv 97
39) 1,2-Dichloropropane	7.73	63	792370	9.107	ppbv 98
40) 1,4-Dioxane	7.95	88	277575	8.599	ppbv # 96
41) Tetrahydrofuran	6.15	42	738087	8.166	ppbv 99
42) Bromodichloromethane	7.91	83	1803696	9.196	ppbv 98
43) Methyl Methacrylate	8.13	69	858574	9.524	ppbv 99

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 08:43:44 2019

QLast Update : Wed Mar 06 08:43:44 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3492774	8.863	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1125152	10.314	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1290828	9.920	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	831865	8.884	ppbv	94
48) Dibromochloromethane	10.45	129	1468027	9.679	ppbv	99
49) Bromoform	13.20	173	1199002	9.899	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2160477	8.879	ppbv	99
51) 2-Hexanone	10.27	43	1684178	9.253	ppbv	100
52) Tetrachloroethene	11.37	164	729937	8.789	ppbv	98
53) Toluene	9.95	91	2394563	9.294	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1301571	9.150	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	994737	7.760	ppbv	100
57) Chlorobenzene	12.30	112	1679628	7.306	ppbv	99
58) Ethyl Benzene	12.86	91	3237277	7.926	ppbv	100
59) m/p-Xylene	13.13	91	2848794	8.185	ppbv #	41
60) o-Xylene	13.85	91	2594798	7.819	ppbv	99
61) Styrene	13.68	104	1899126	8.137	ppbv	100
62) Isopropylbenzene	14.82	105	3618150	7.820	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1673796	7.088	ppbv	99
64) n-propylbenzene	15.72	120	910951	7.943	ppbv	100
65) tert-Butylbenzene	16.90	119	3069933	7.772	ppbv	100
66) Benzyl Chloride	17.15	91	1546354	10.121	ppbv	99
67) sec-Butylbenzene	17.46	105	4427558	7.862	ppbv	99
69) p-Isopropyltoluene	17.81	119	3672430	8.065	ppbv	100
70) n-Butylbenzene	18.71	91	3974912	7.969	ppbv	100
71) 2-Chlorotoluene	15.62	91	2768602	7.826	ppbv	99
72) 4-Ethyltoluene	16.00	105	2963665	8.172	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	2807841	8.066	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	2854759	7.802	ppbv #	94
75) 1,3-Dichlorobenzene	17.16	146	1652958	7.724	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1655874	7.807	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1609184	7.746	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1171855	7.970	ppbv	99
79) Naphthalene	22.41	128	4191931	9.369	ppbv	99
80) Naphthalene,2-methyl-	25.11	142	1673452	12.519	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1926730	8.570	ppbv	100

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

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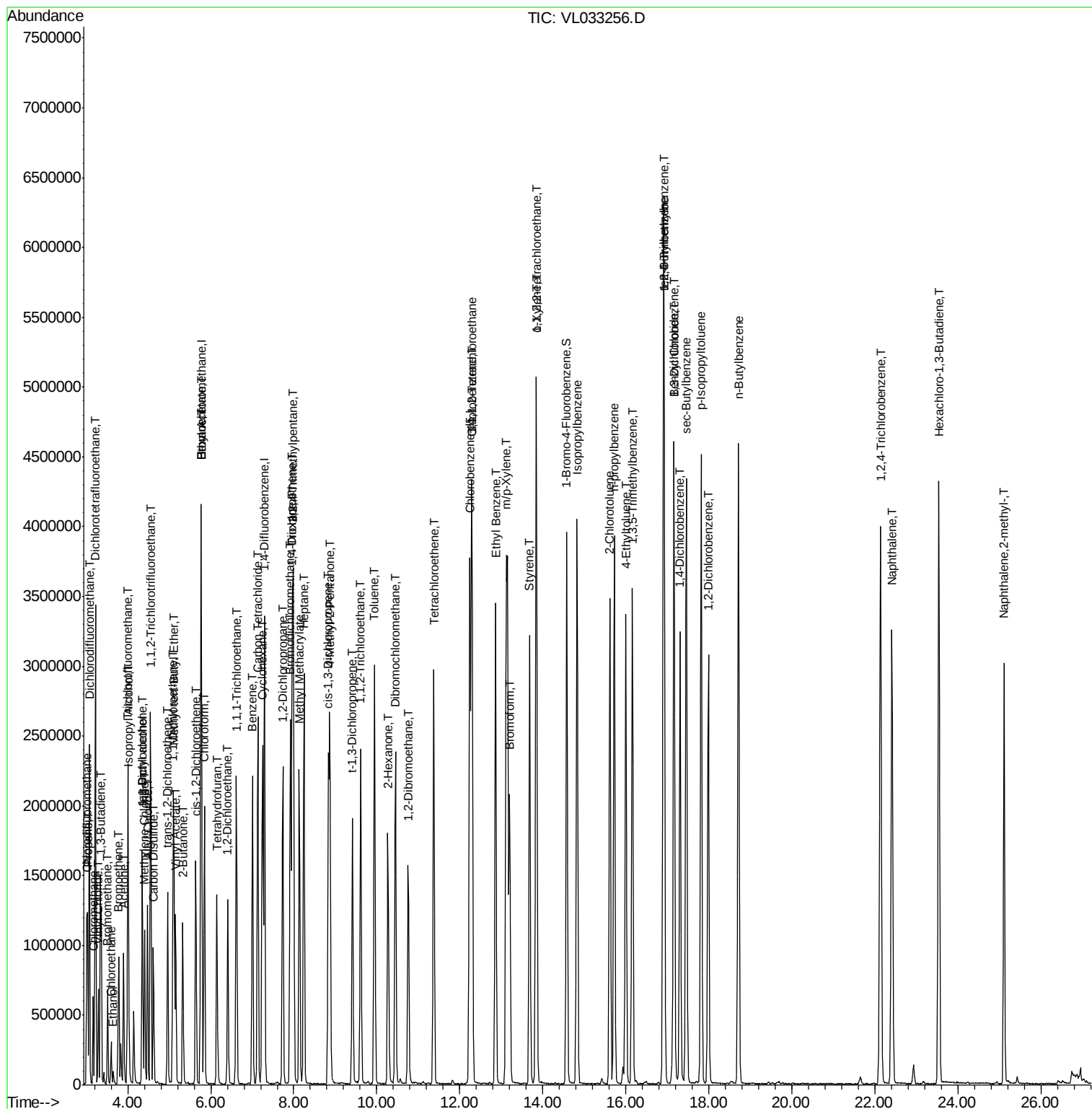
Quant Time: Mar 08 16:11:35 2019

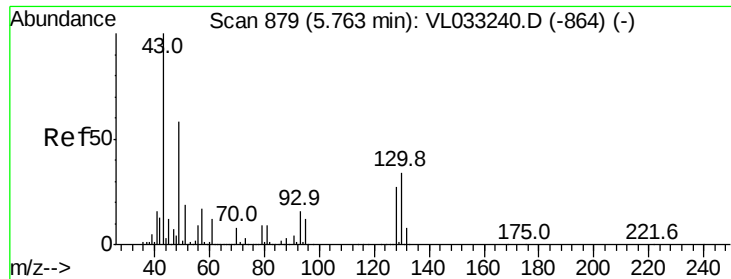
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL030819AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

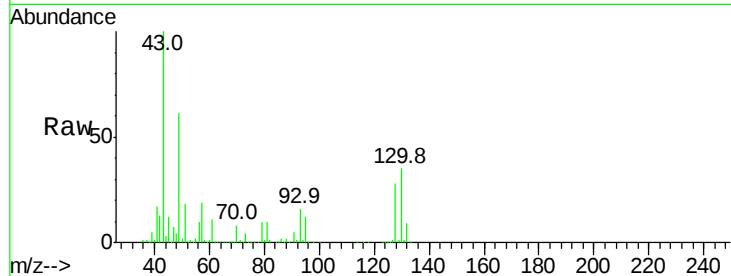
Tgt Ion: 49 Resp: 903893

Ion Ratio Lower Upper

49 100

128 45.0 22.9 68.8

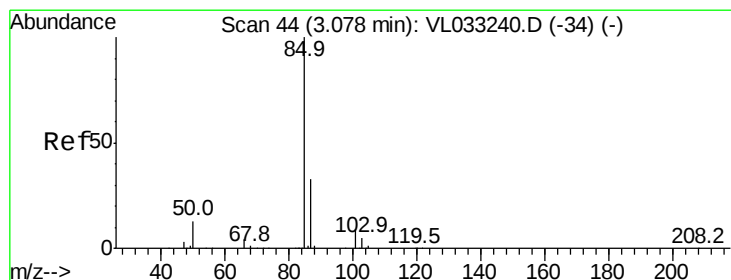
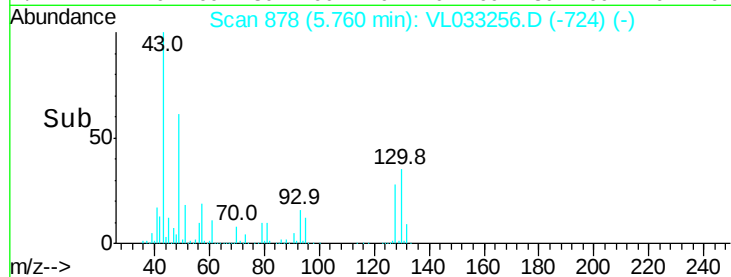
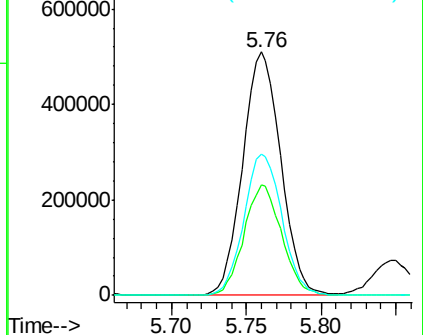
130 58.3 29.3 88.0



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: 13.364 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033256.D

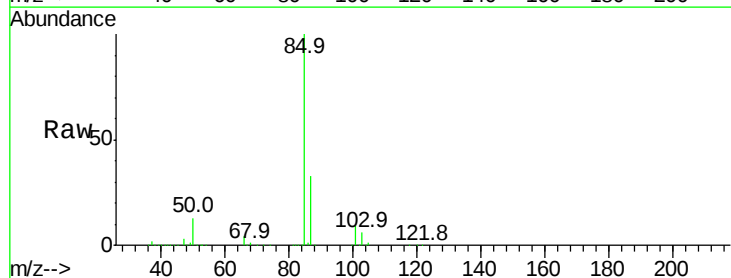
Acq: 8 Mar 2019 12:46

Tgt Ion: 85 Resp: 1706359

Ion Ratio Lower Upper

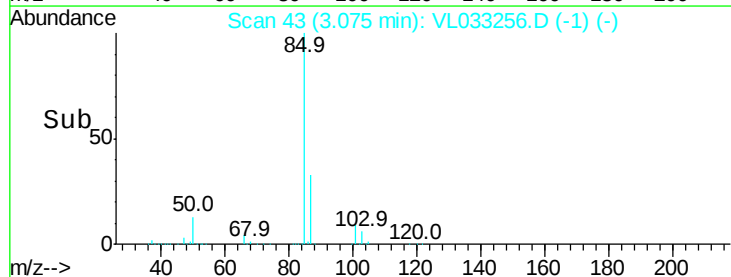
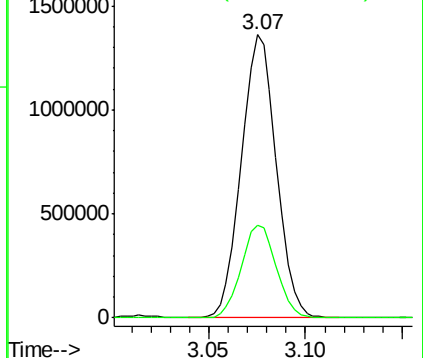
85 100

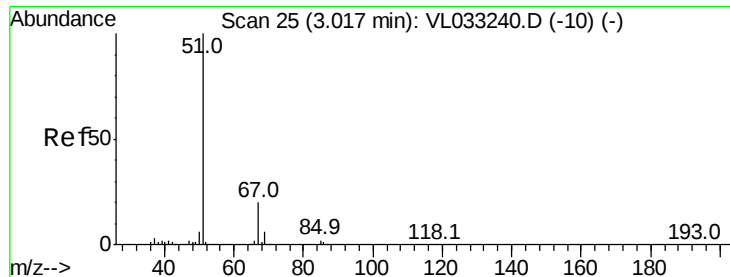
87 32.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.825 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

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ClientSampleId :

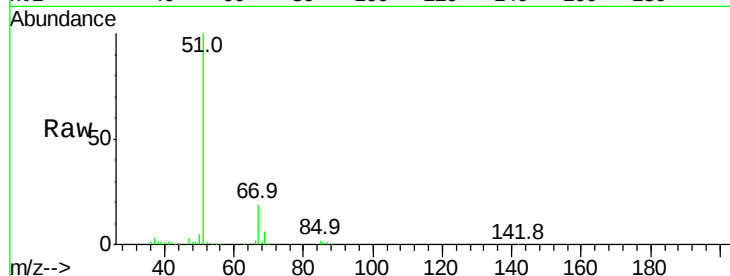
VSTDICCC010

Tgt Ion: 51 Resp: 1016359

Ion Ratio Lower Upper

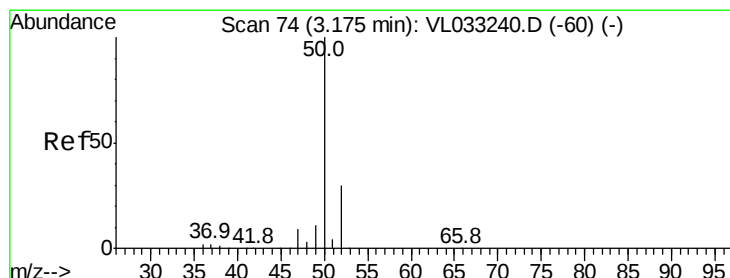
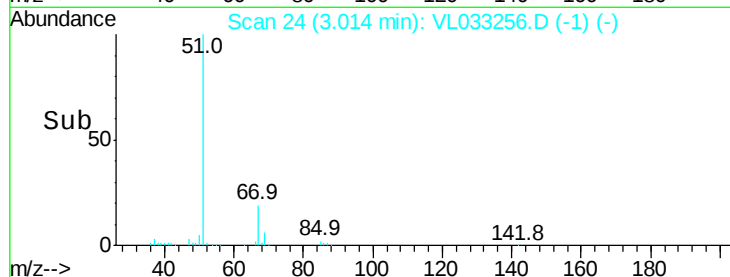
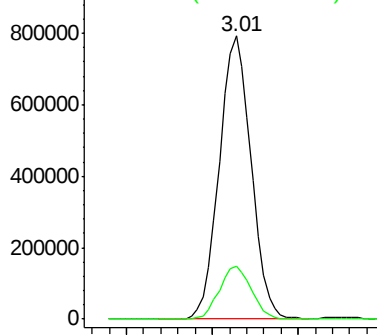
51 100

67 18.8 15.0 22.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.039 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033256.D

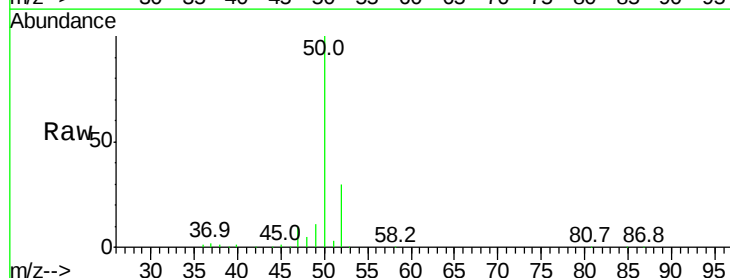
Acq: 8 Mar 2019 12:46

Tgt Ion: 50 Resp: 534616

Ion Ratio Lower Upper

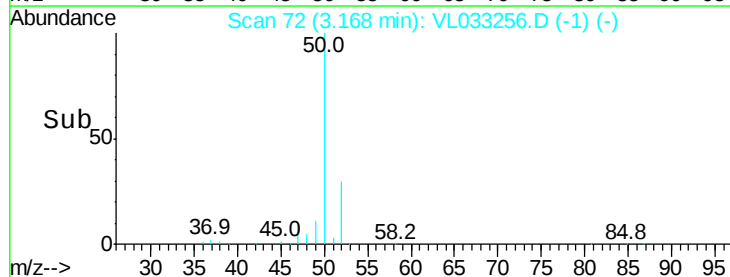
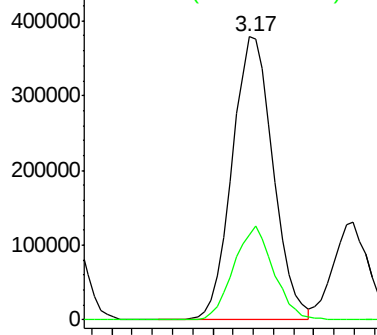
50 100

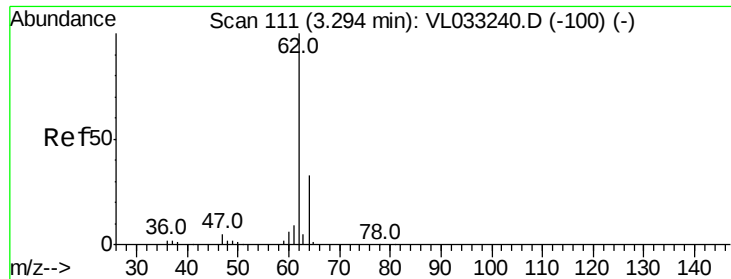
52 30.2 24.3 36.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.821 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

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ClientSampleId :

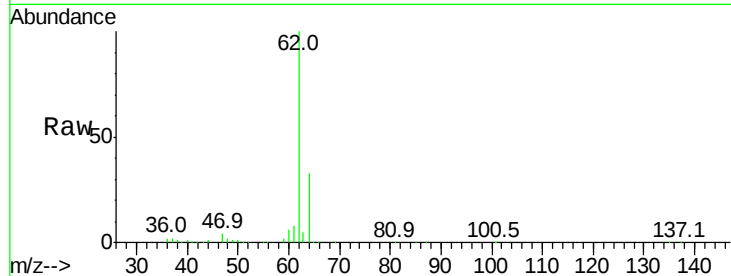
VSTDICCC010

Tgt Ion: 62 Resp: 526726

Ion Ratio Lower Upper

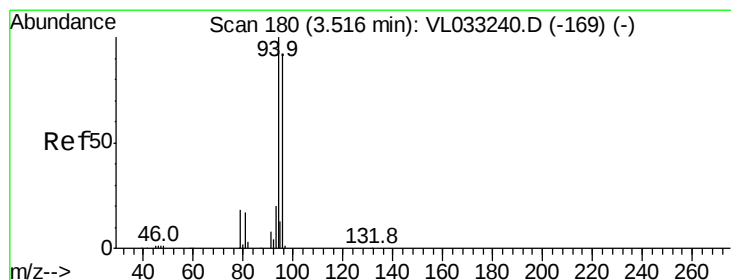
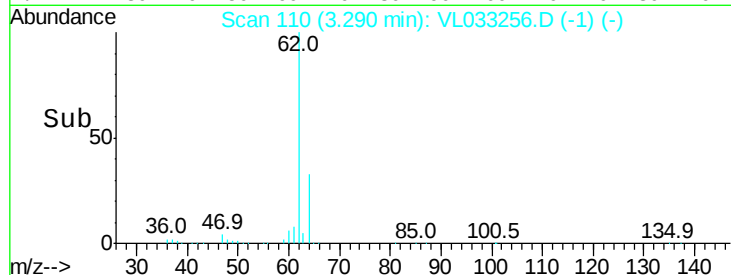
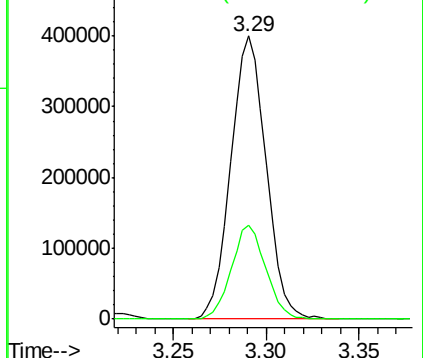
62 100

64 33.0 26.2 39.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.540 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033256.D

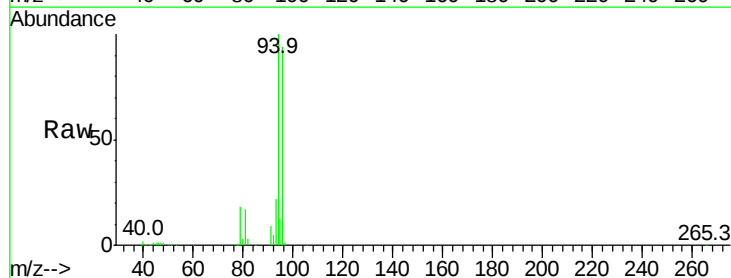
Acq: 8 Mar 2019 12:46

Tgt Ion: 94 Resp: 325767

Ion Ratio Lower Upper

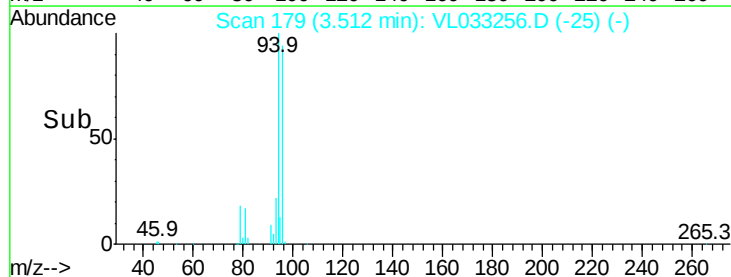
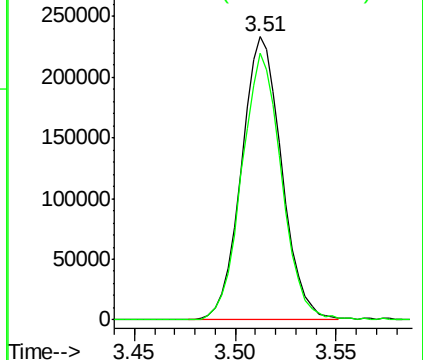
94 100

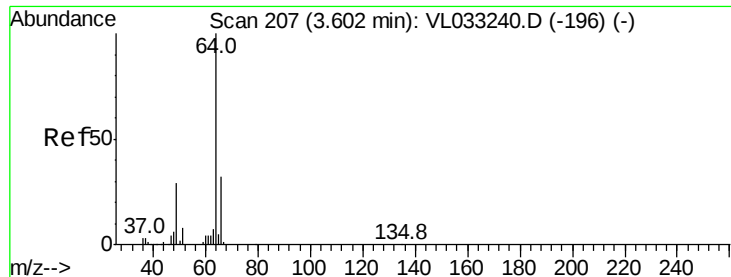
96 94.1 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.700 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

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ClientSampleId :

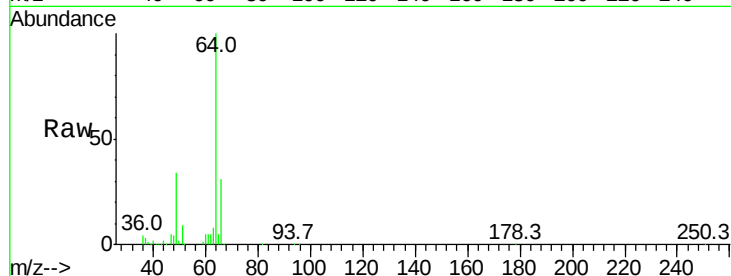
VSTDICCC010

Tgt Ion: 64 Resp: 193540

Ion Ratio Lower Upper

64 100

66 31.5 25.7 38.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

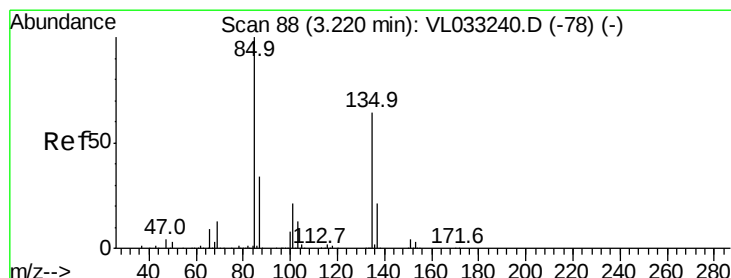
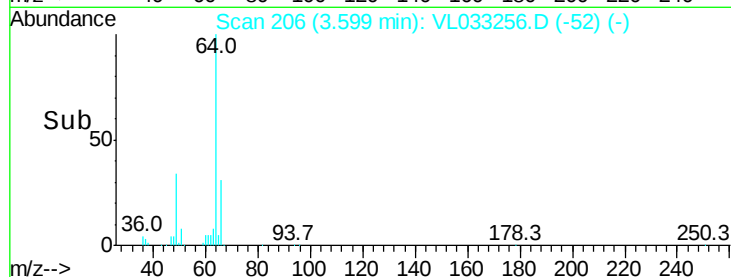
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.174 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033256.D

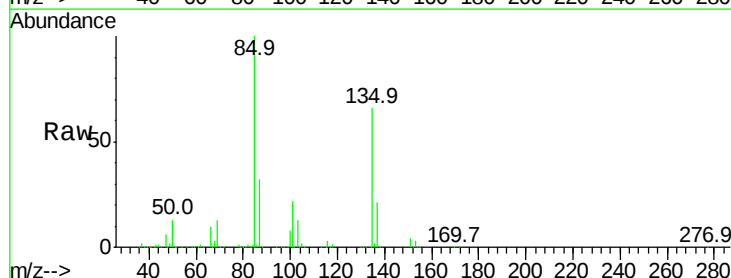
Acq: 8 Mar 2019 12:46

Tgt Ion: 85 Resp: 1284204

Ion Ratio Lower Upper

85 100

135 65.4 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

1200000

1000000

800000

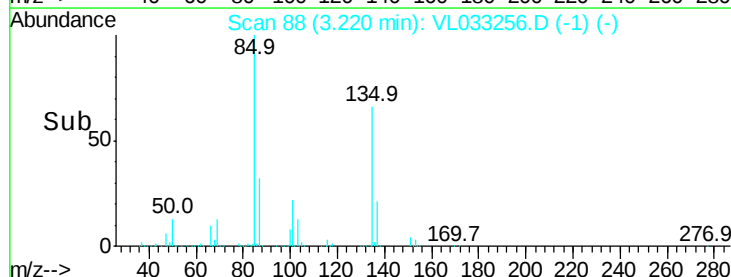
600000

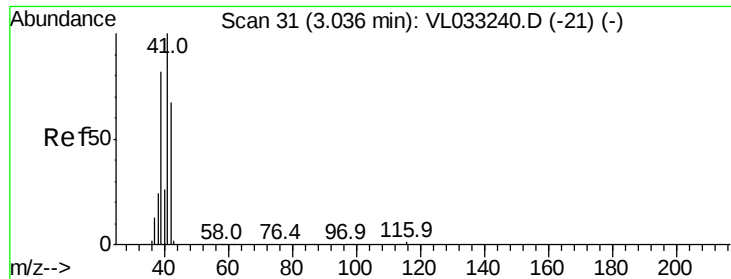
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200000

0

Time-->





#9

Propene

Concen: 9.826 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

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ClientSampleId :

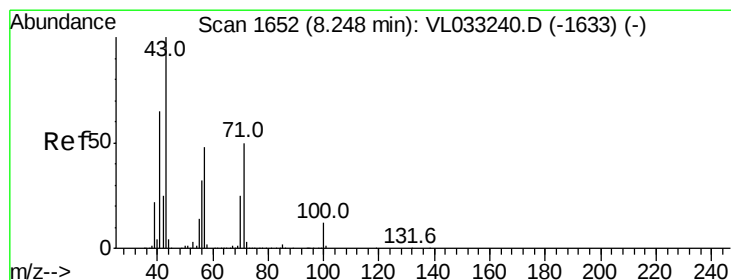
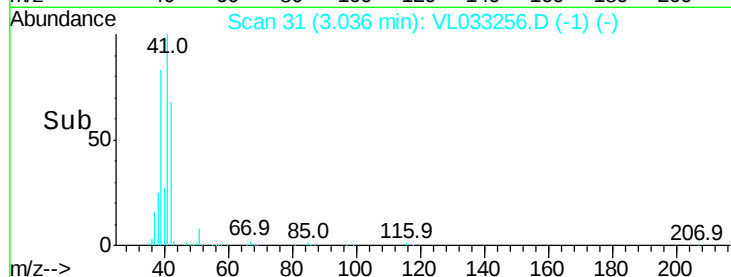
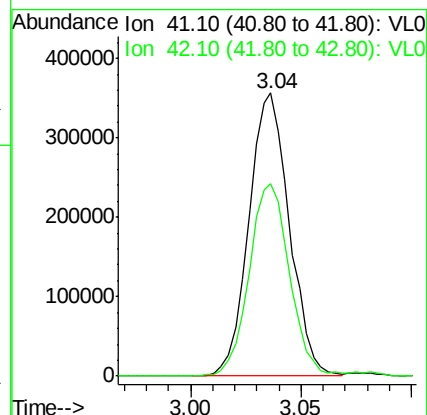
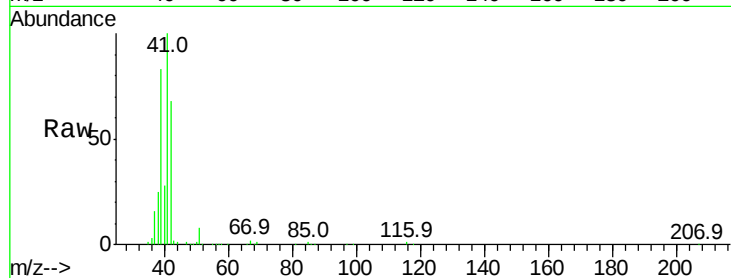
VSTDICCC010

Tgt Ion: 41 Resp: 452967

Ion Ratio Lower Upper

41 100

42 69.0 55.3 82.9



#10

Heptane

Concen: 10.832 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033256.D

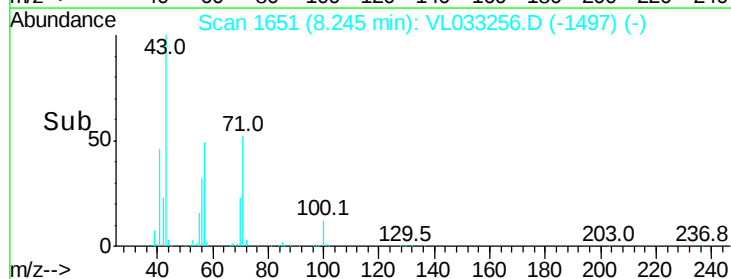
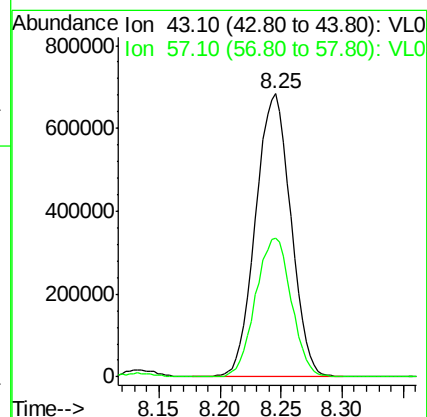
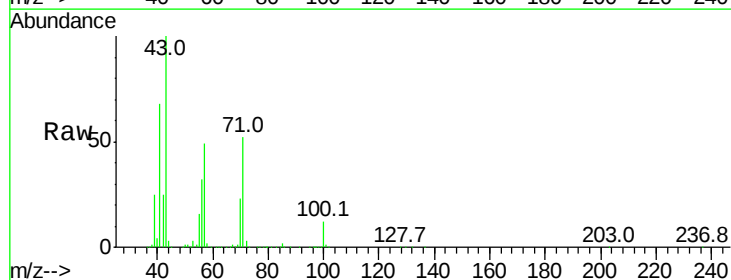
Acq: 8 Mar 2019 12:46

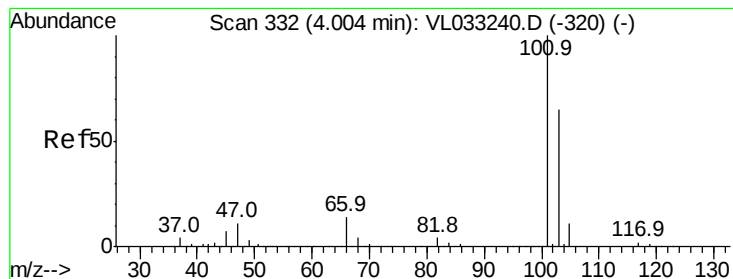
Tgt Ion: 43 Resp: 1358572

Ion Ratio Lower Upper

43 100

57 50.0 39.8 59.6





#11

Trichlorofluoromethane

Concen: 9.603 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

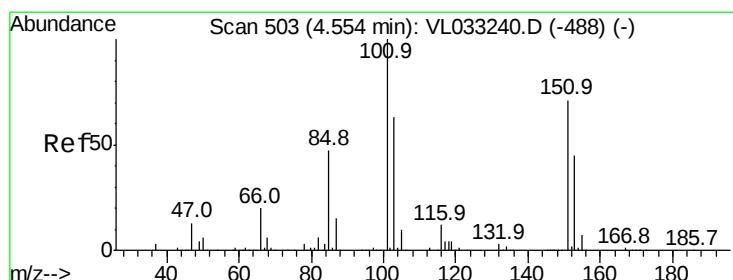
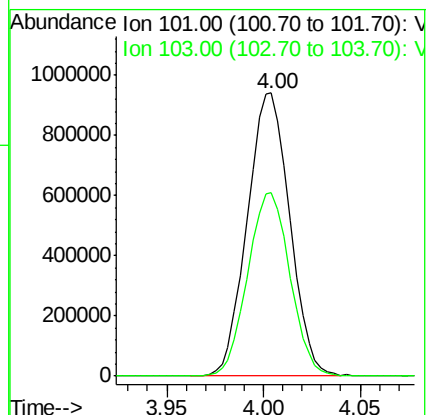
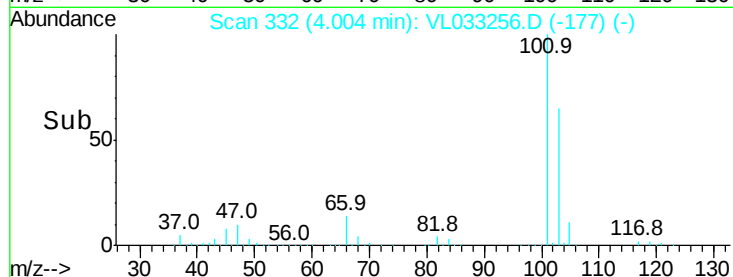
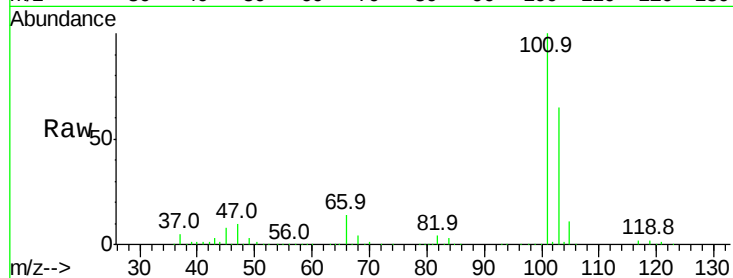
VSTDICCC010

Tgt Ion:101 Resp: 1439794

Ion Ratio Lower Upper

101 100

103 64.9 51.7 77.5



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.799 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033256.D

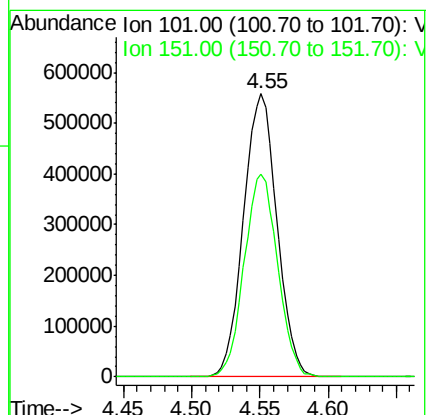
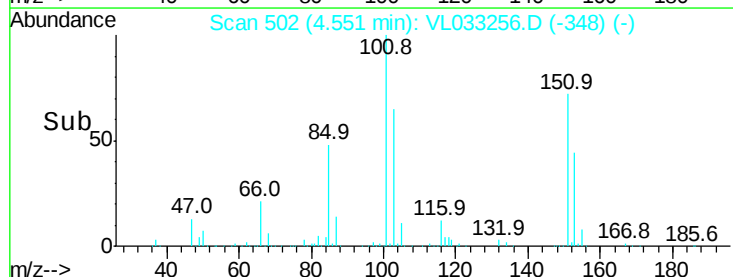
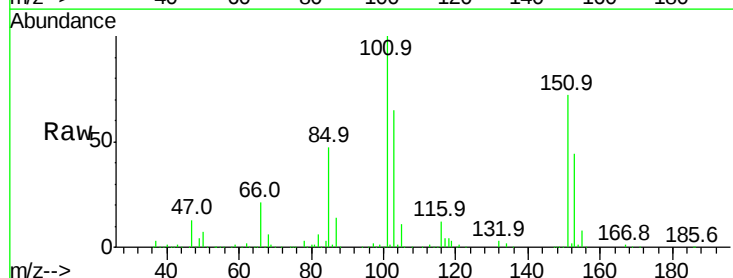
Acq: 8 Mar 2019 12:46

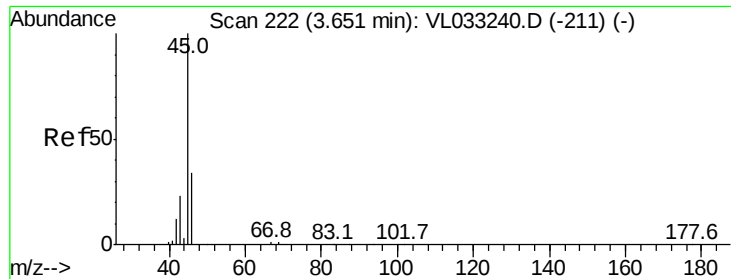
Tgt Ion:101 Resp: 952443

Ion Ratio Lower Upper

101 100

151 71.5 57.0 85.6





#13

Ethanol

Concen: 6.420 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

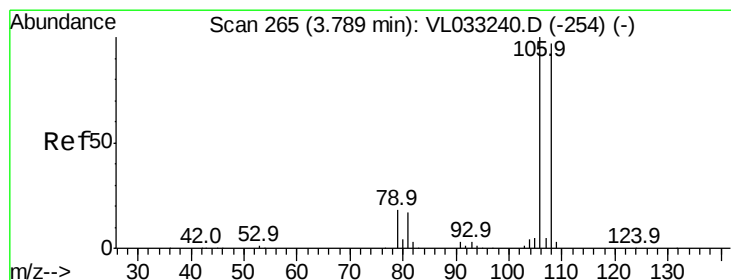
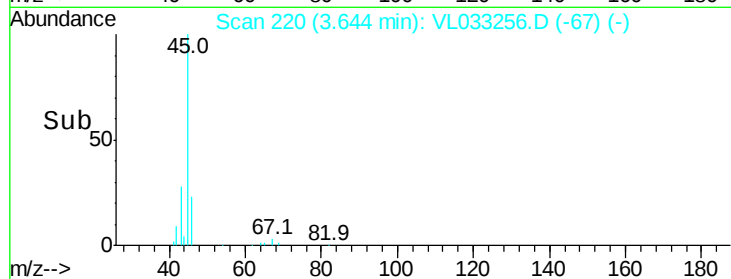
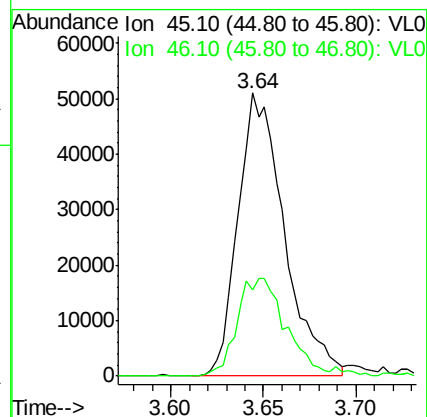
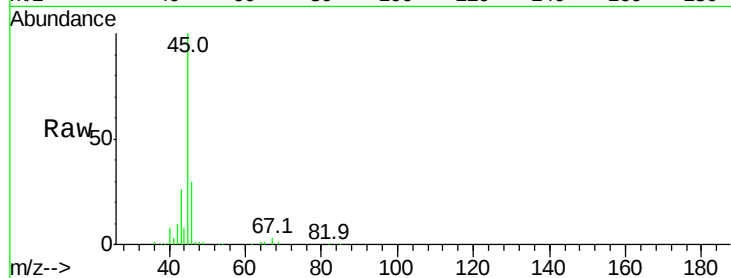
VSTDICCC010

Tgt Ion: 45 Resp: 88491

Ion Ratio Lower Upper

45 100

46 37.3 15.3 61.3



#14

Bromoethene

Concen: 9.834 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

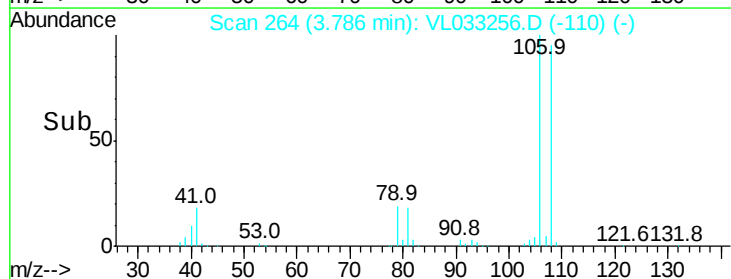
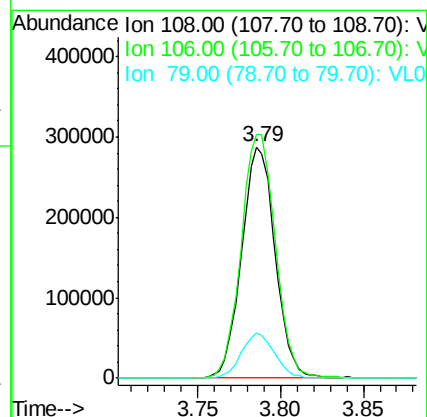
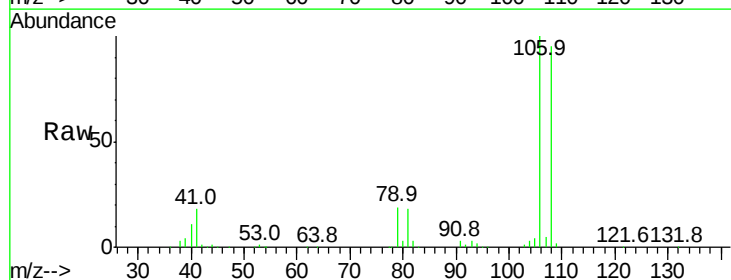
Tgt Ion: 108 Resp: 402696

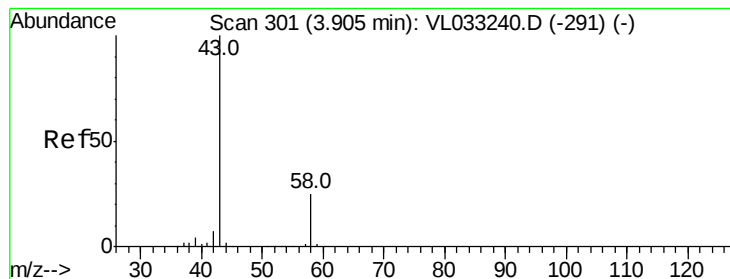
Ion Ratio Lower Upper

108 100

106 108.6 85.5 128.3

79 19.7 15.3 22.9





#15

Acetone

Concen: 8.022 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

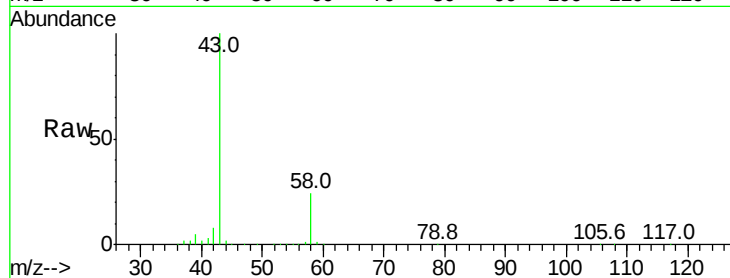
VSTDICCC010

Tgt Ion: 43 Resp: 933108

Ion Ratio Lower Upper

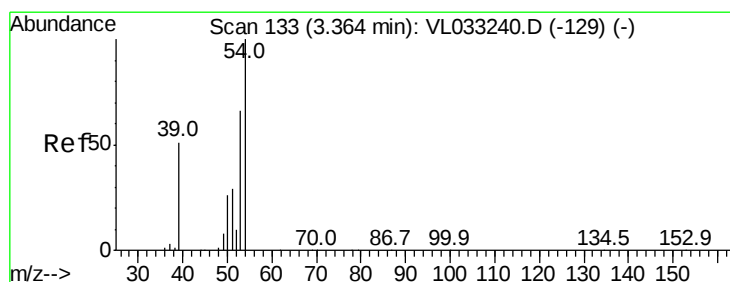
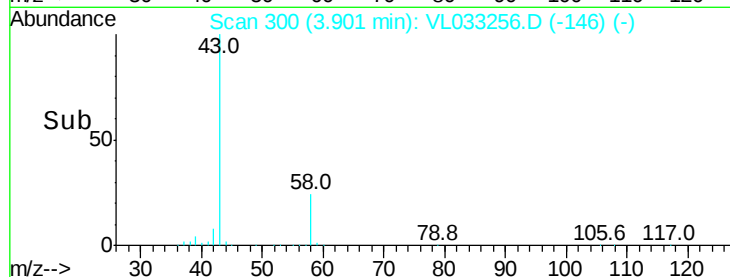
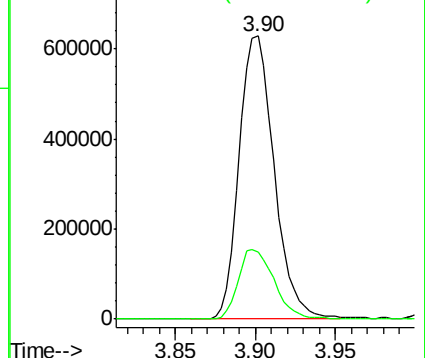
43 100

58 25.2 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.290 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033256.D

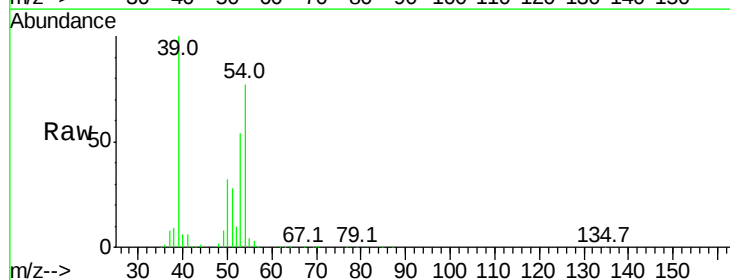
Acq: 8 Mar 2019 12:46

Tgt Ion: 39 Resp: 477982

Ion Ratio Lower Upper

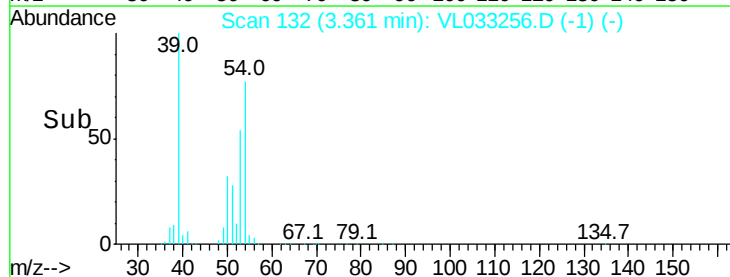
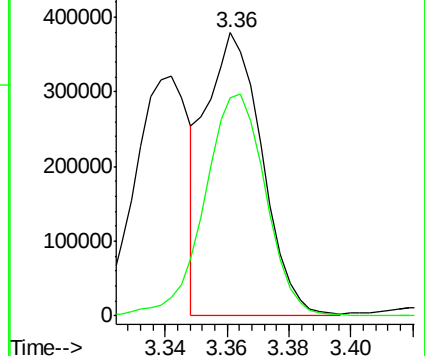
39 100

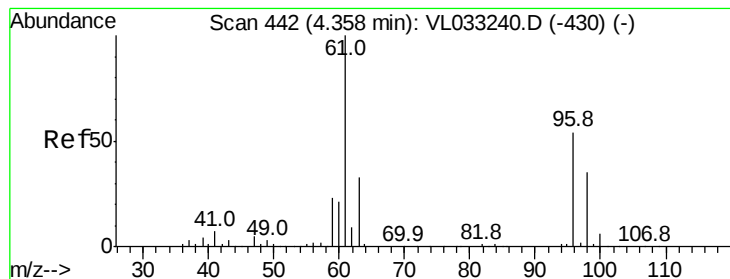
54 85.8 69.6 104.4



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 8.943 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

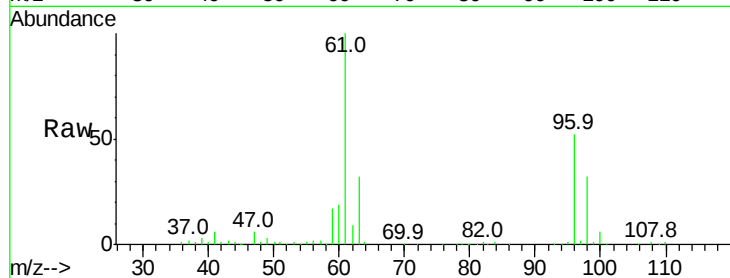
VSTDICCC010

Tgt Ion: 59 Resp: 169534

Ion Ratio Lower Upper

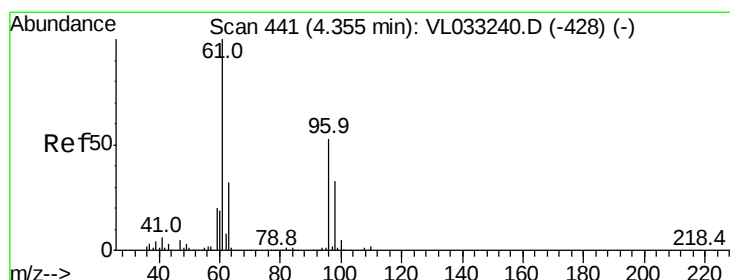
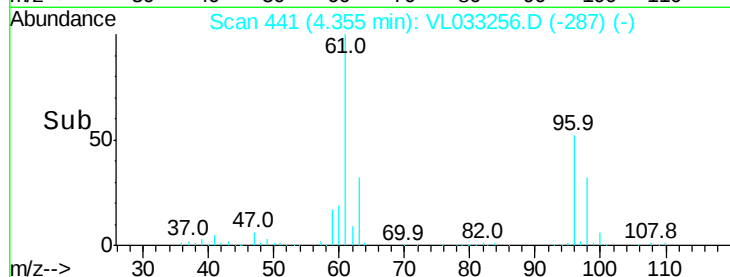
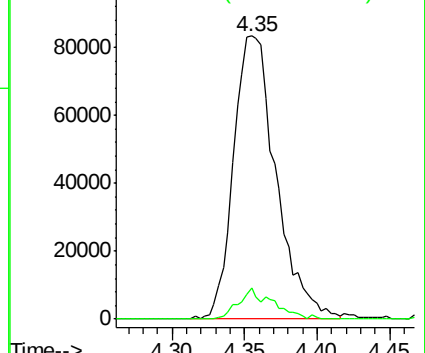
59 100

57 9.0 7.5 11.3



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.833 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

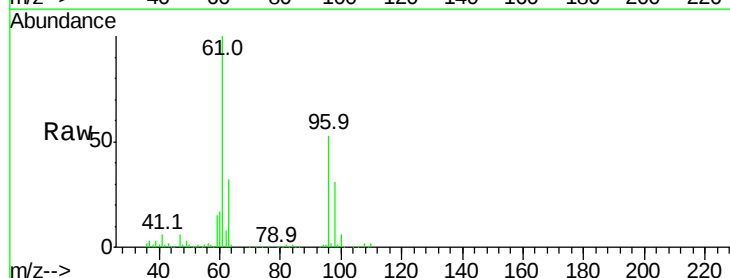
Tgt Ion: 96 Resp: 425542

Ion Ratio Lower Upper

96 100

61 188.3 150.2 225.2

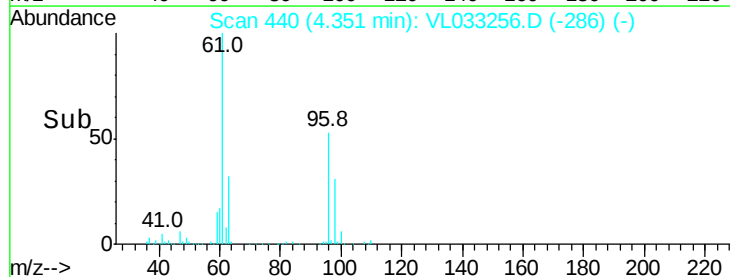
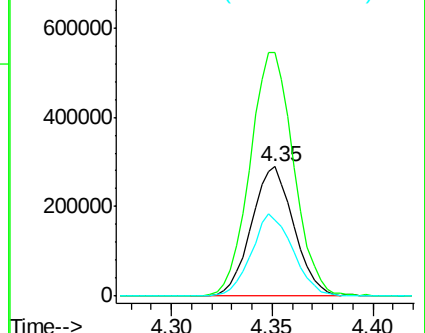
98 58.7 49.2 73.8

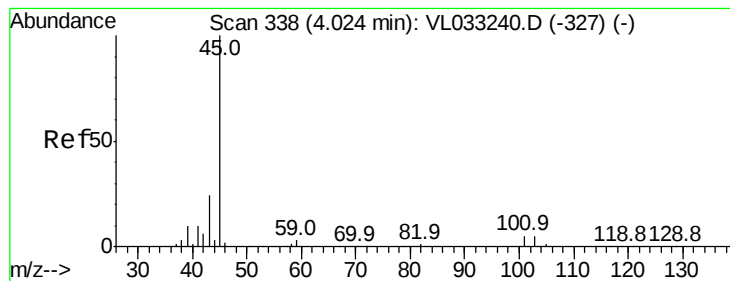


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 8.605 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

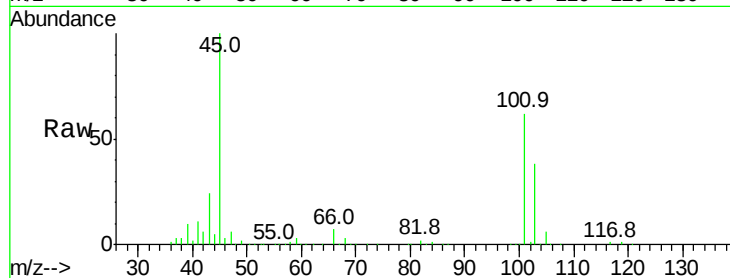
VSTDICCC010

Tgt Ion: 45 Resp: 595045

Ion Ratio Lower Upper

45 100

58 1.9 1.4 2.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

300000

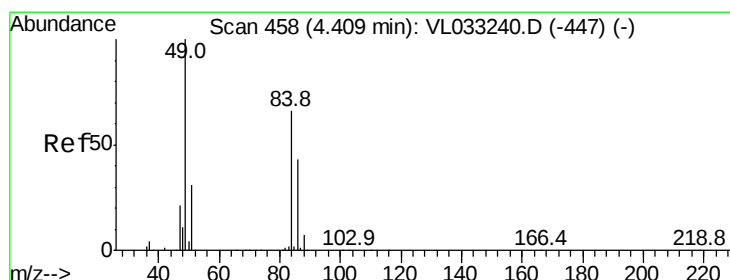
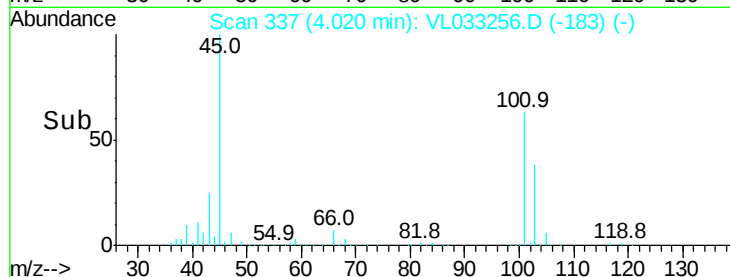
200000

100000

0

Time-->

3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 8.362 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Tgt Ion: 84 Resp: 368627

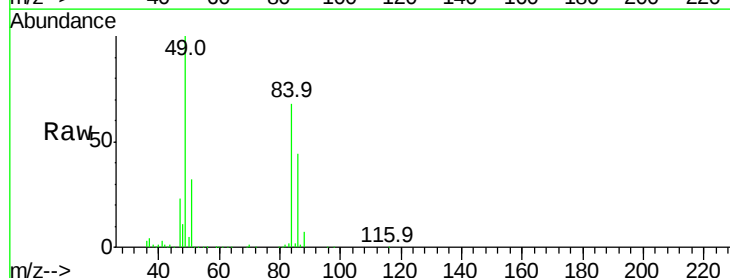
Ion Ratio Lower Upper

84 100

49 147.2 120.4 180.6

51 46.1 36.7 55.1

86 64.6 51.8 77.8



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

500000

400000

300000

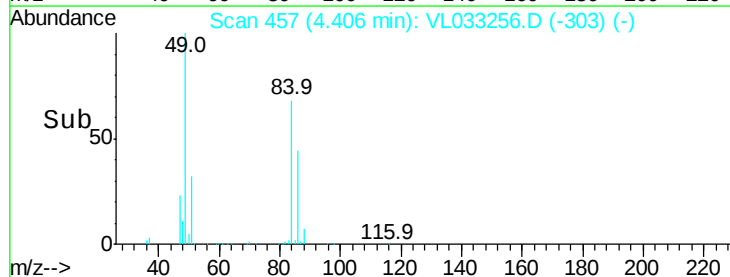
200000

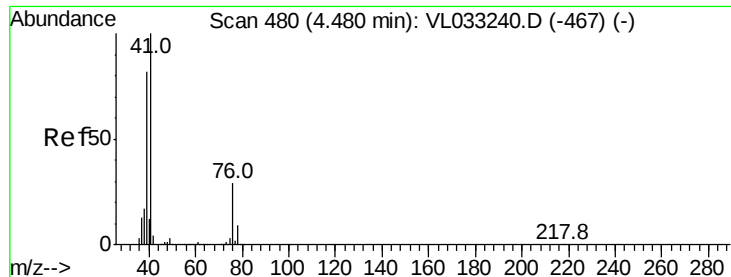
100000

0

Time-->

4.35 4.40 4.45





#21

Allyl Chloride

Concen: 10.174 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

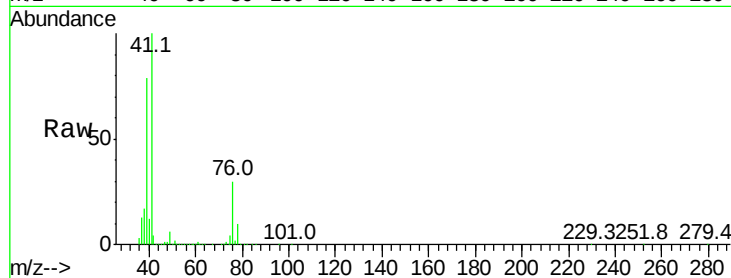
Tgt Ion: 41 Resp: 660452

Ion Ratio Lower Upper

41 100

76 30.6 24.6 36.8

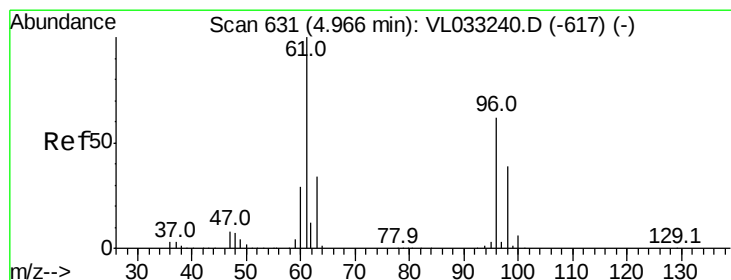
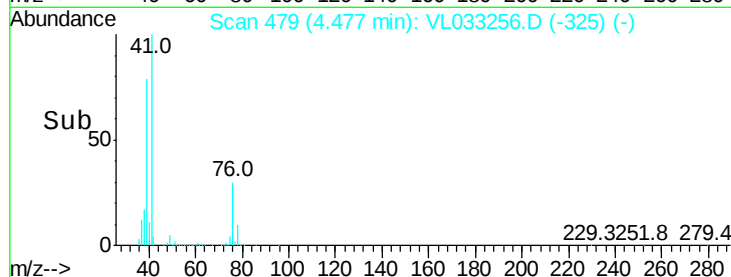
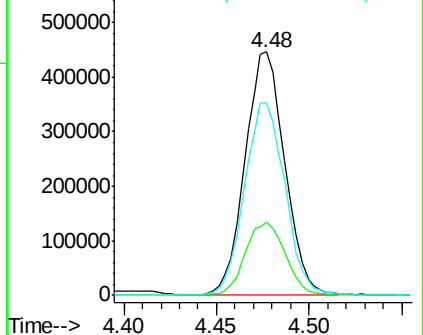
39 81.6 65.2 97.8



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: 9.636 ppbv

RT: 4.96 min Scan# 629

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

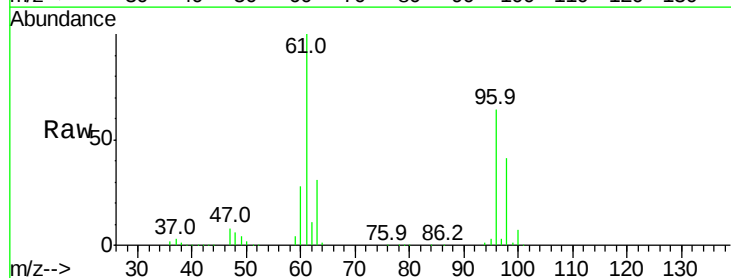
Tgt Ion: 96 Resp: 425697

Ion Ratio Lower Upper

96 100

61 157.1 128.3 192.5

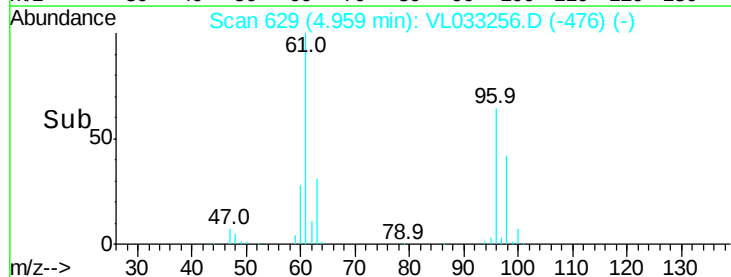
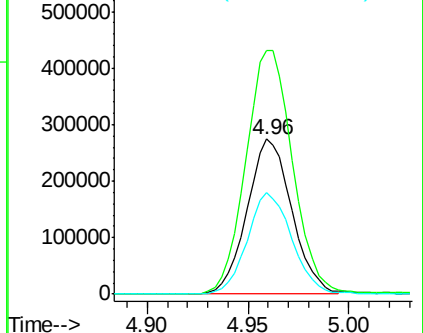
98 65.1 50.6 75.8

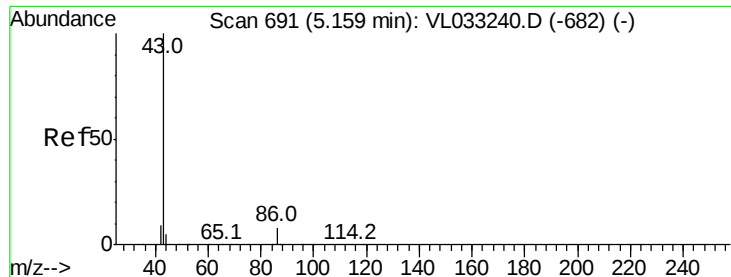


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.198 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 1578288

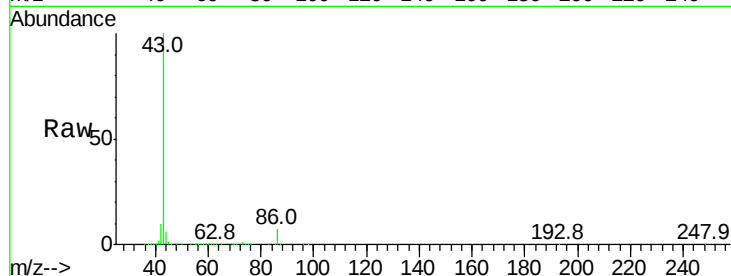
Ion Ratio Lower Upper

43 100

86 7.0 5.5 8.3

42 10.1 7.7 11.5

44 5.4 4.1 6.1



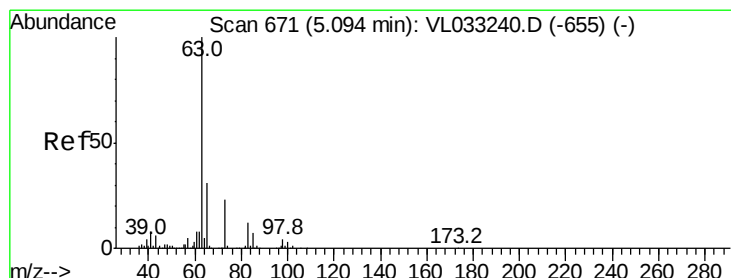
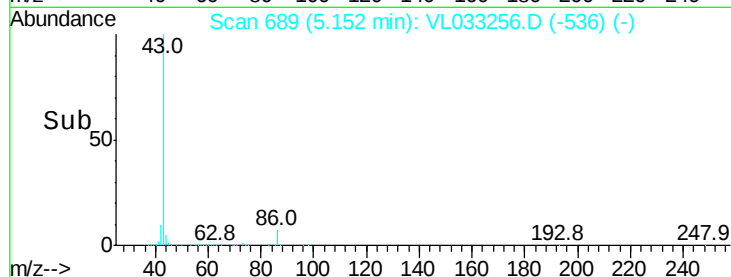
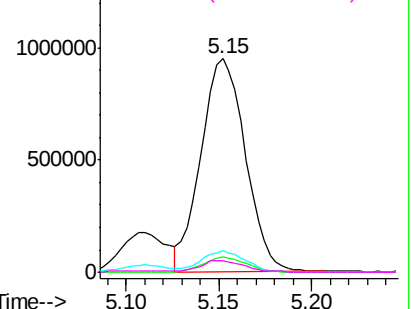
Abundance Ion 43.10 (42.80 to 43.80): VL0

1500000

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: 8.967 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

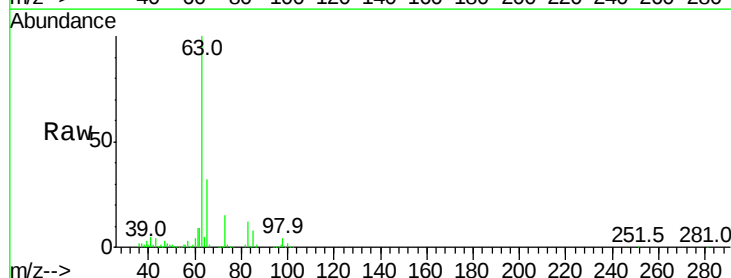
Tgt Ion: 63 Resp: 1096923

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.3

100 2.5 1.3 3.8

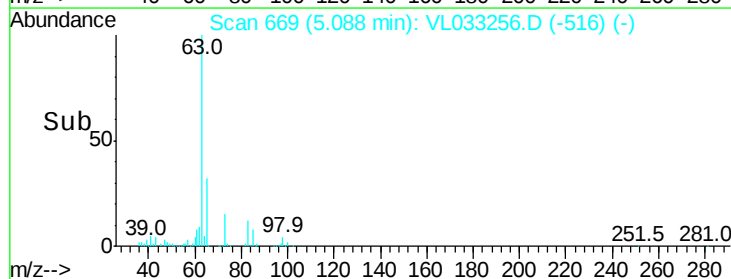
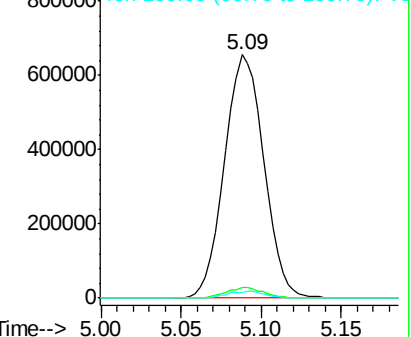


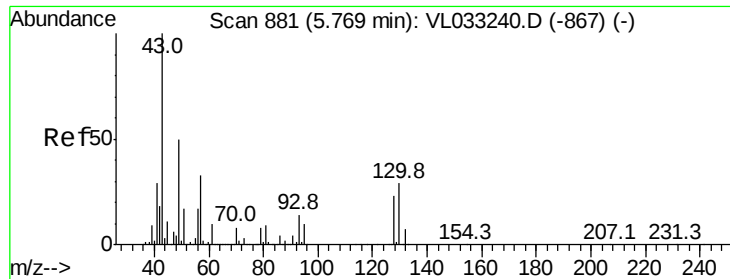
Abundance Ion 63.10 (62.80 to 63.80): VL0

800000

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.983 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 1915645

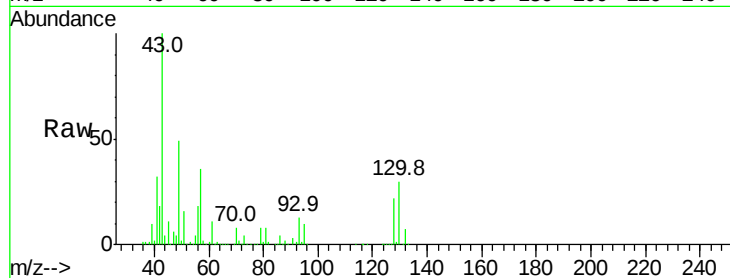
Ion Ratio Lower Upper

43 100

45 9.8 7.8 11.6

61 9.2 7.0 10.6

70 6.8 5.5 8.3

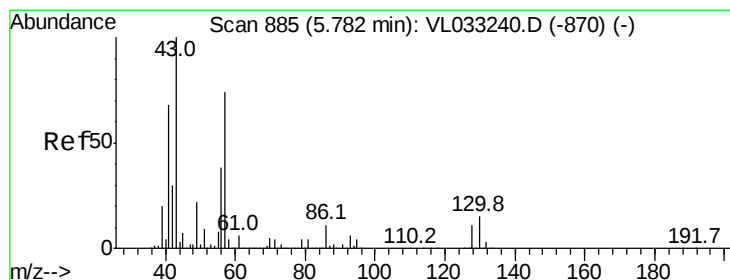
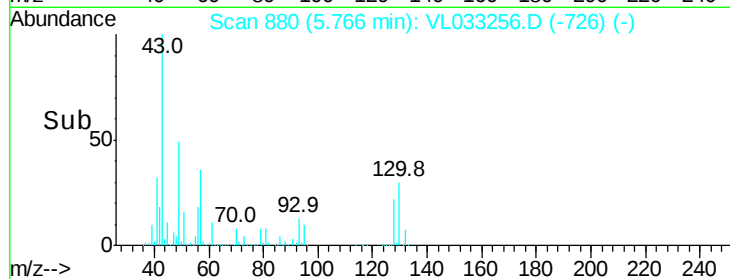
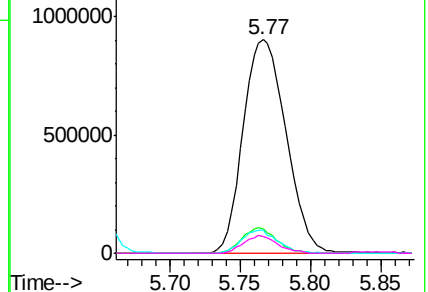


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.644 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Tgt Ion: 57 Resp: 861718

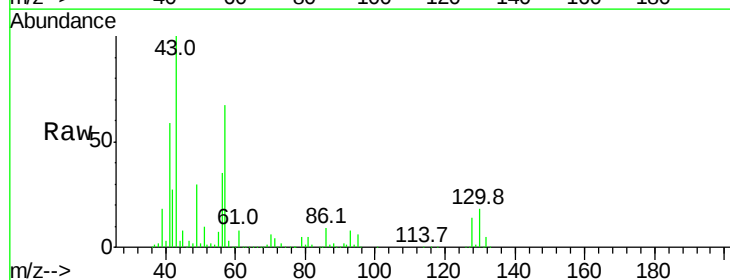
Ion Ratio Lower Upper

57 100

41 90.3 73.4 110.2

43 223.7 182.1 273.1

56 52.3 42.6 64.0

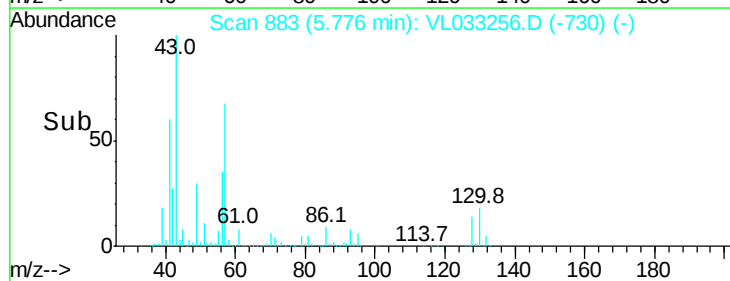
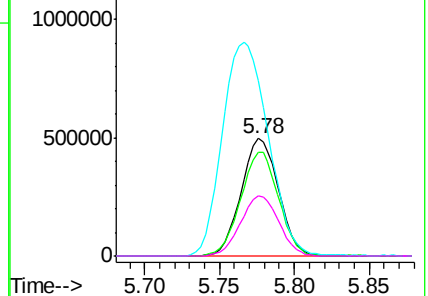


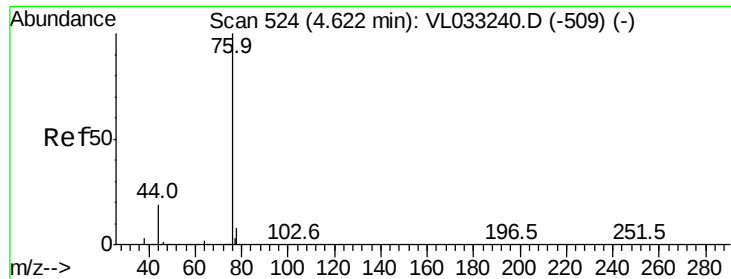
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.322 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

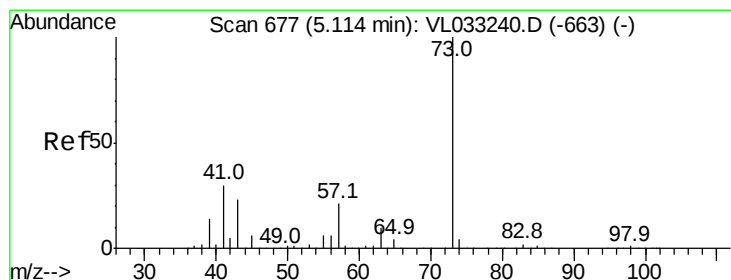
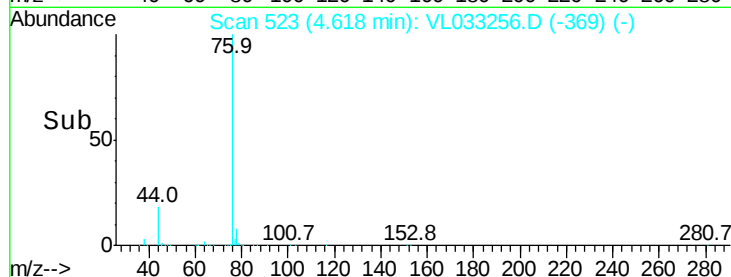
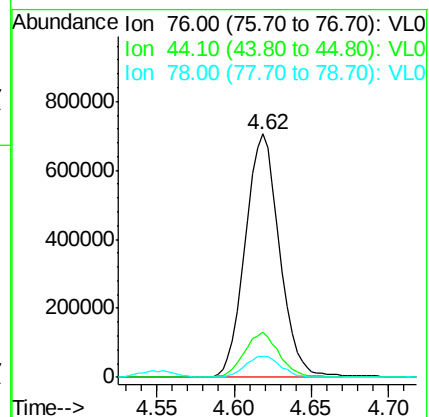
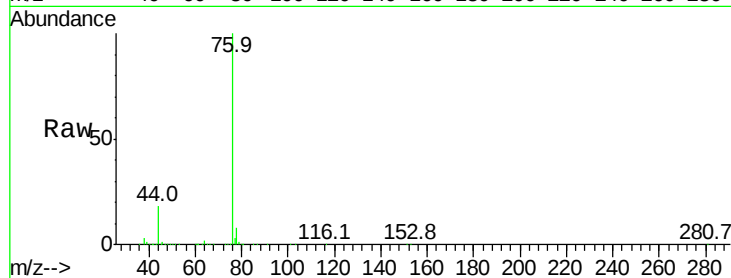
Tgt Ion: 76 Resp: 1088010

Ion Ratio Lower Upper

76 100

44 18.5 15.0 22.6

78 9.0 7.3 10.9



#28

Methyl tert-Butyl Ether

Concen: 9.173 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033256.D

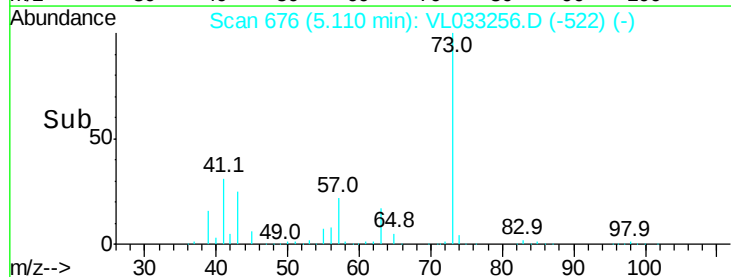
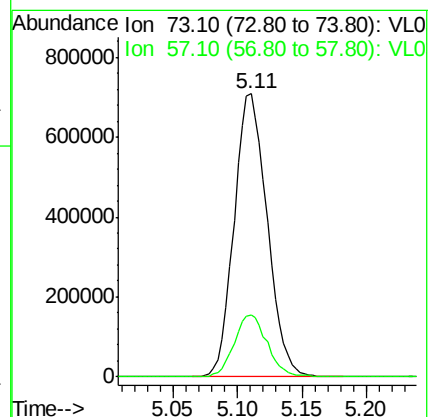
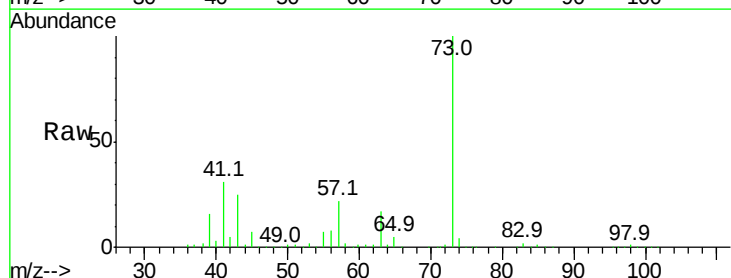
Acq: 8 Mar 2019 12:46

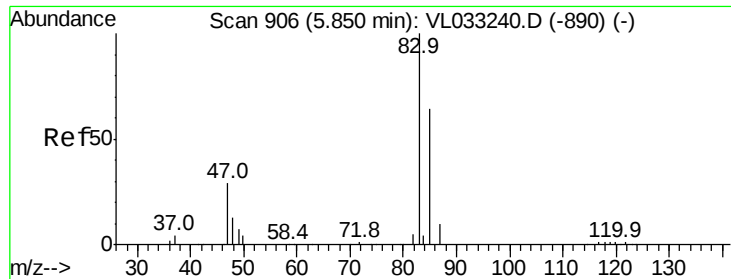
Tgt Ion: 73 Resp: 1261148

Ion Ratio Lower Upper

73 100

57 22.1 17.6 26.4

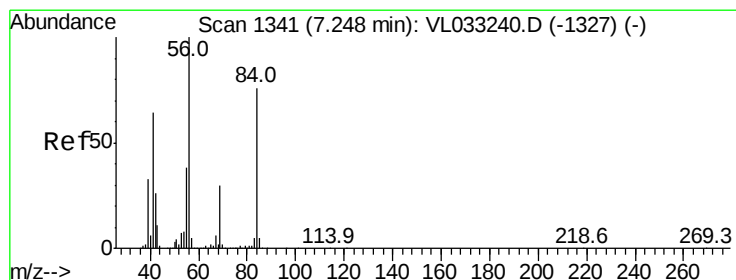
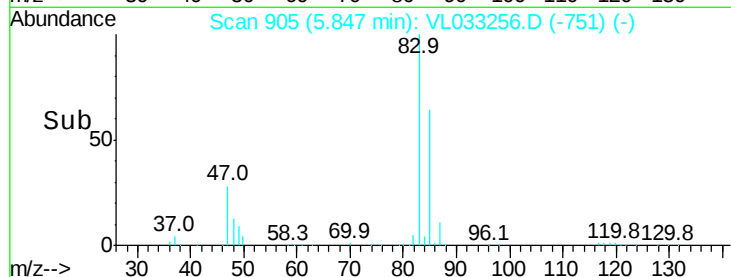
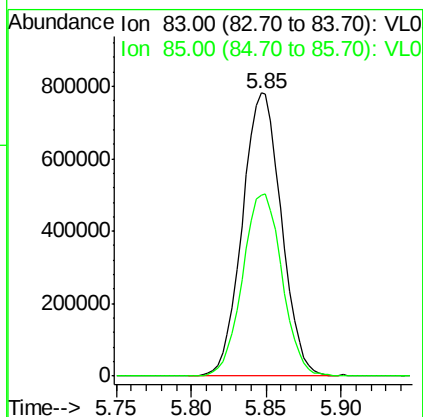
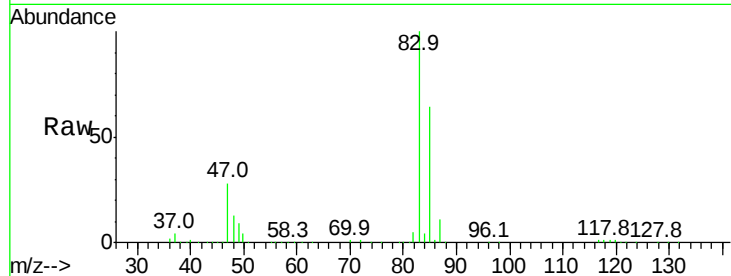




#29
Chloroform
Concen: 9.156 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL033256.D
Acq: 8 Mar 2019 12:46

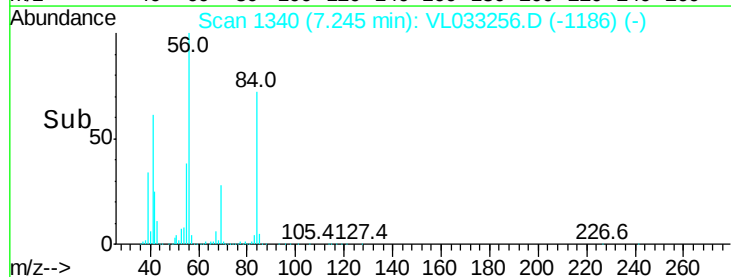
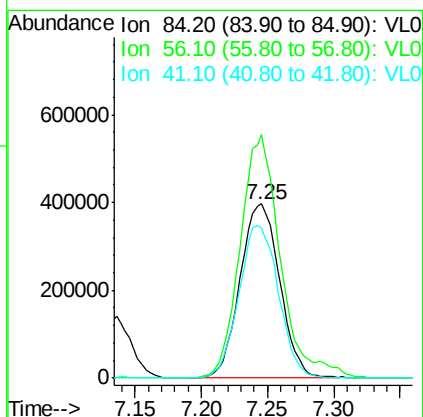
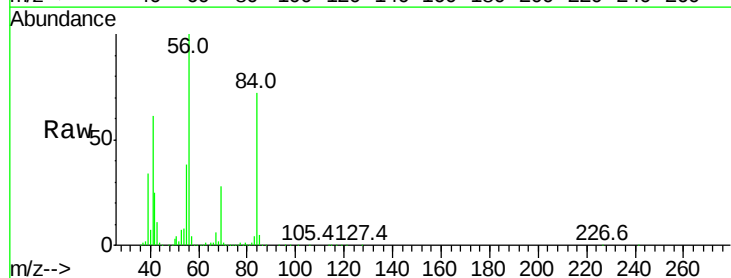
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

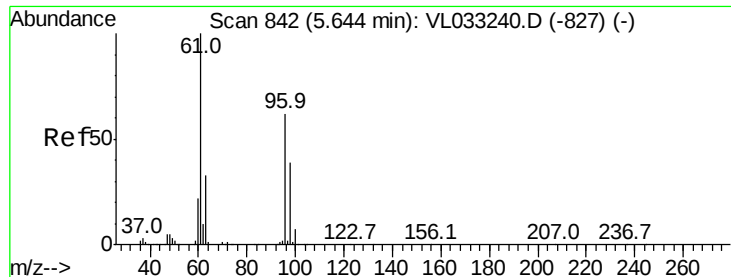
Tgt Ion: 83 Resp: 1419574
Ion Ratio Lower Upper
83 100
85 63.8 51.2 76.8



#30
Cyclohexane
Concen: 11.087 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033256.D
Acq: 8 Mar 2019 12:46

Tgt Ion: 84 Resp: 827536
Ion Ratio Lower Upper
84 100
56 141.8 113.1 169.7
41 87.8 70.8 106.2





#31

cis-1,2-Dichloroethene

Concen: 9.414 ppbv

RT: 5.64 min Scan# 841

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

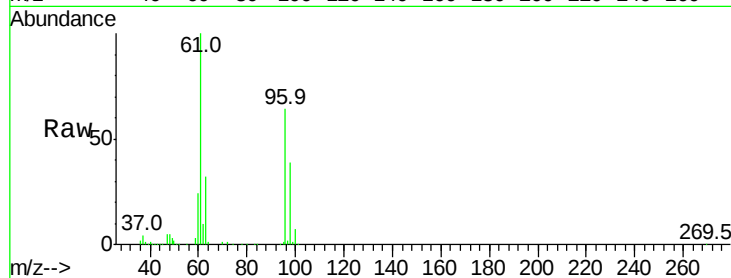
Tgt Ion: 61 Resp: 906441

Ion Ratio Lower Upper

61 100

96 64.0 49.4 74.0

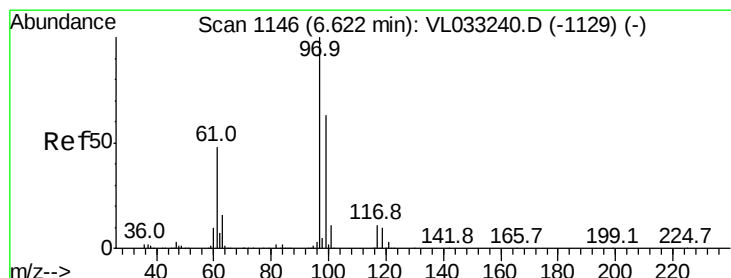
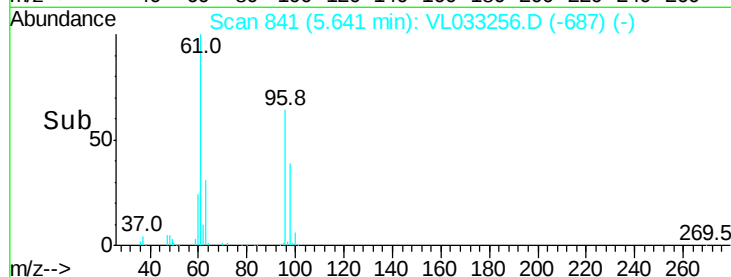
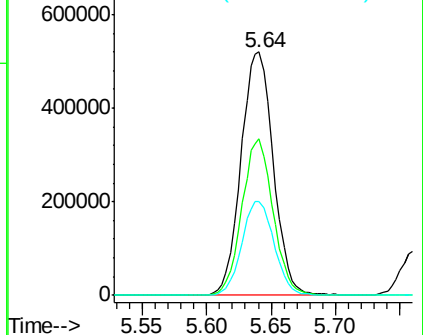
98 38.5 31.2 46.8



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.572 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

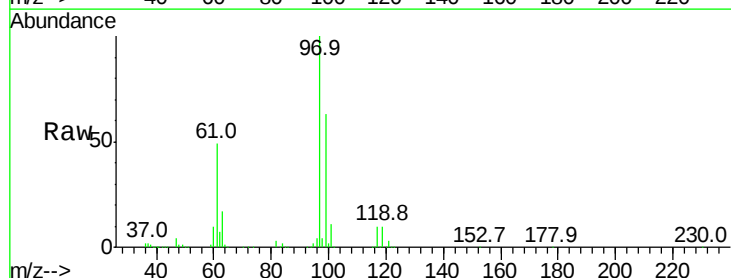
Tgt Ion: 97 Resp: 1439648

Ion Ratio Lower Upper

97 100

99 64.5 51.4 77.0

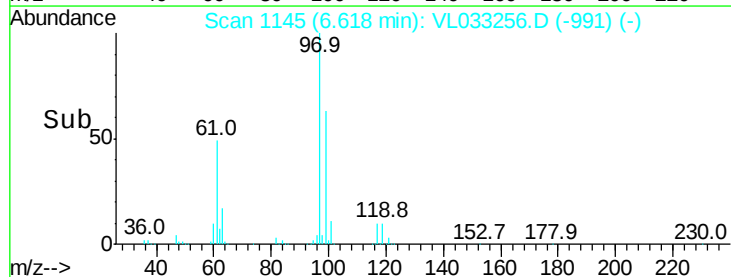
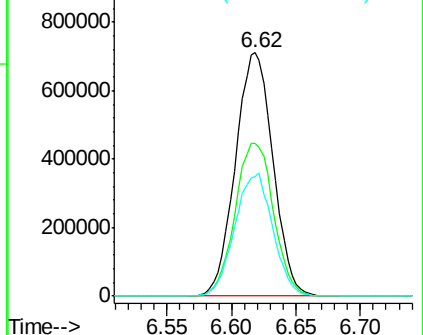
61 51.0 40.1 60.1

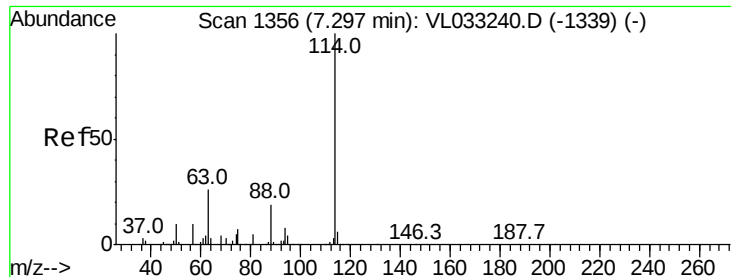


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

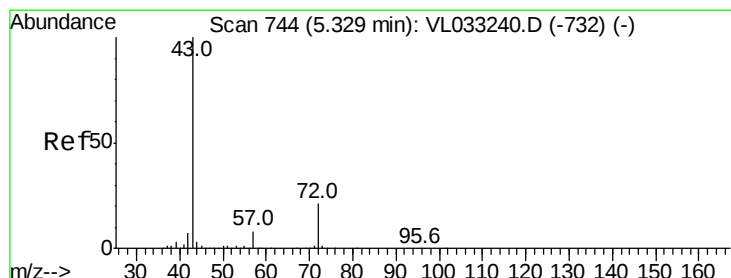
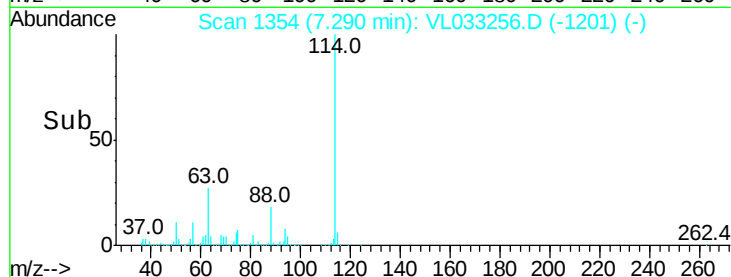
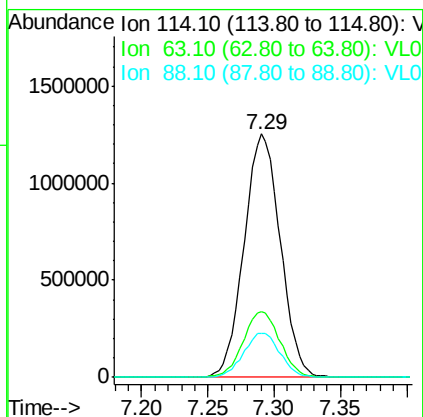
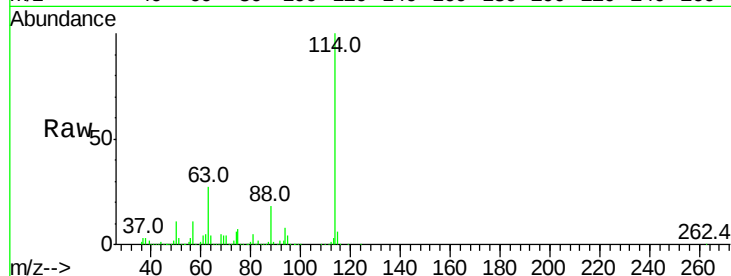




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

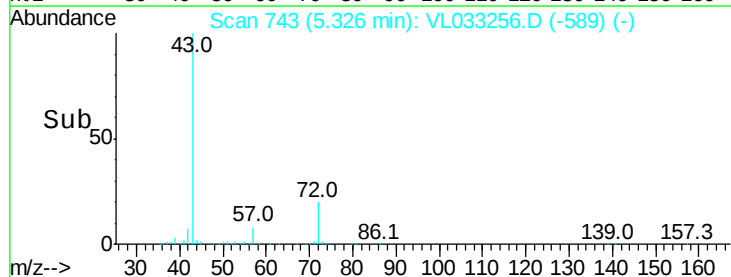
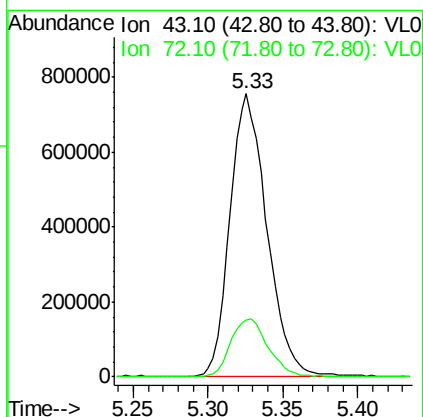
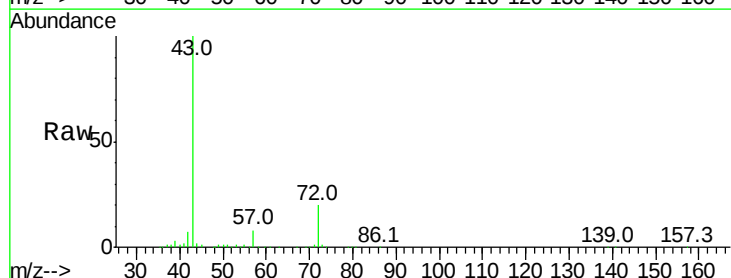
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

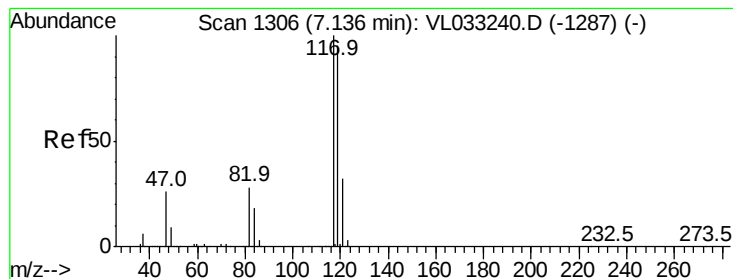
Tgt Ion:114 Resp: 2374339
 Ion Ratio Lower Upper
 114 100
 63 27.7 22.0 33.0
 88 18.3 15.0 22.4



#34
 2-Butanone
 Concen: 7.871 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

Tgt Ion: 43 Resp: 1294872
 Ion Ratio Lower Upper
 43 100
 72 21.1 17.1 25.7





#35

Carbon Tetrachloride

Concen: 8.717 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

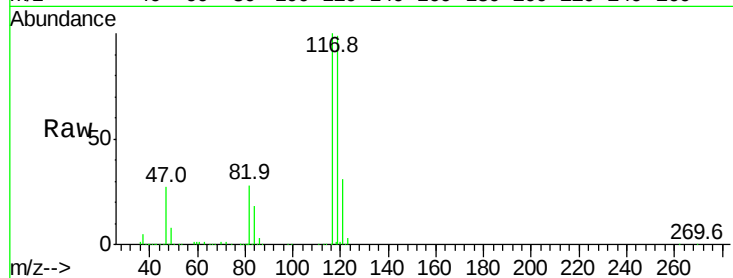
Tgt Ion:117 Resp: 1565535

Ion Ratio Lower Upper

117 100

119 98.8 75.8 113.6

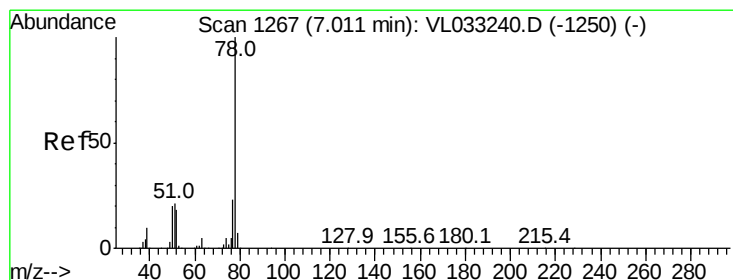
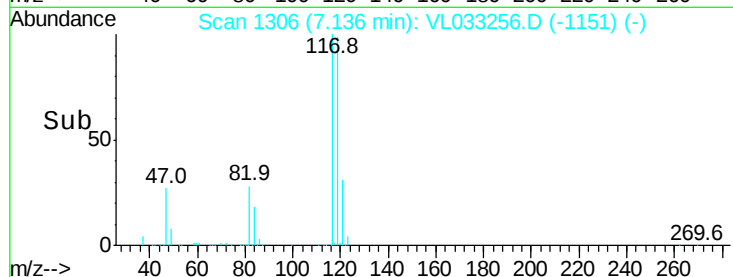
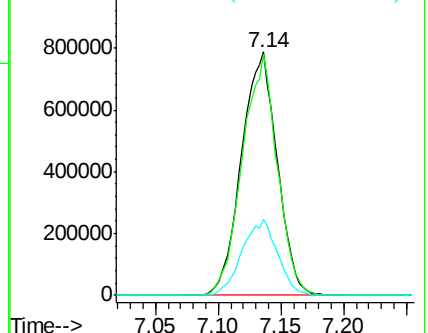
121 30.9 25.6 38.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.028 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

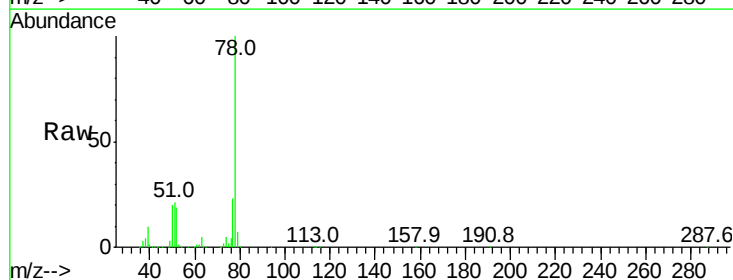
Tgt Ion: 78 Resp: 1789006

Ion Ratio Lower Upper

78 100

77 22.7 18.0 27.0

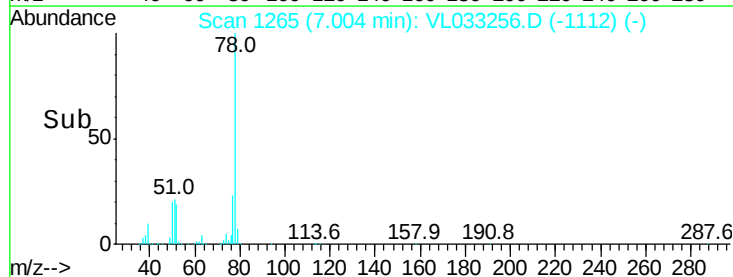
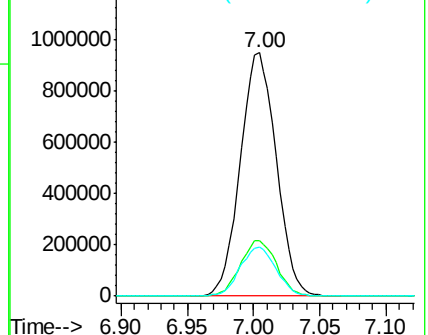
50 20.2 16.2 24.4

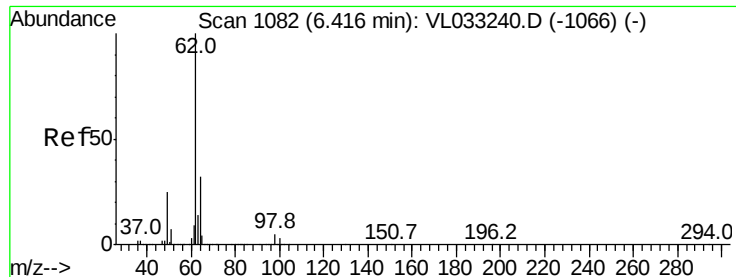


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

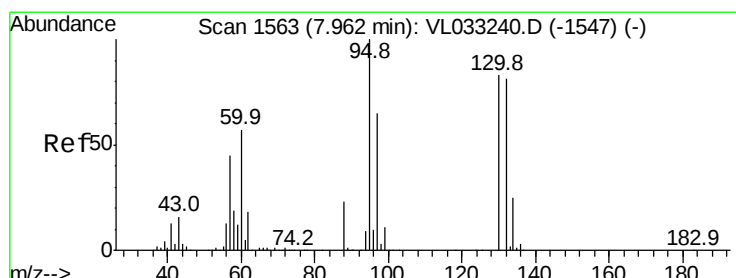
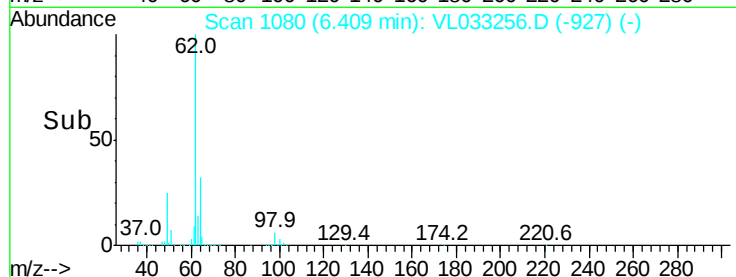
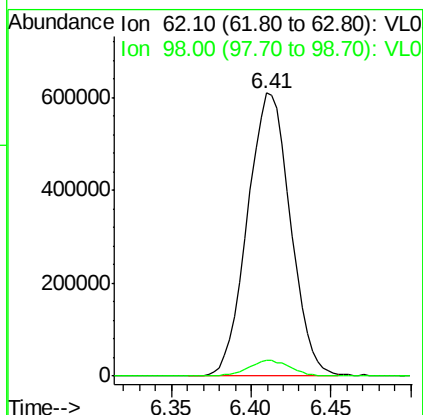
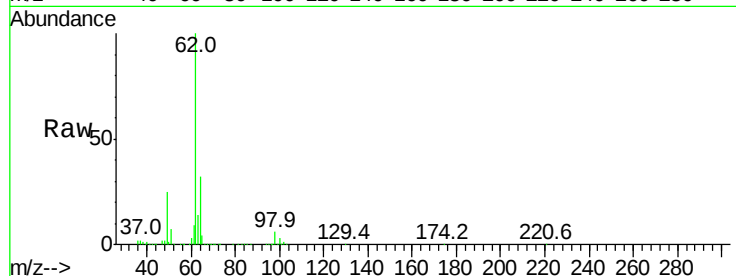




#37
 1,2-Dichloroethane
 Concen: 8.089 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

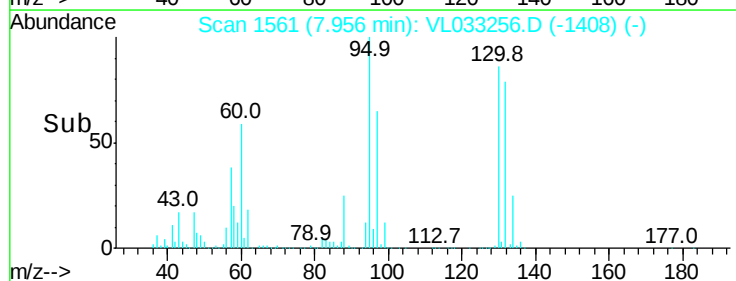
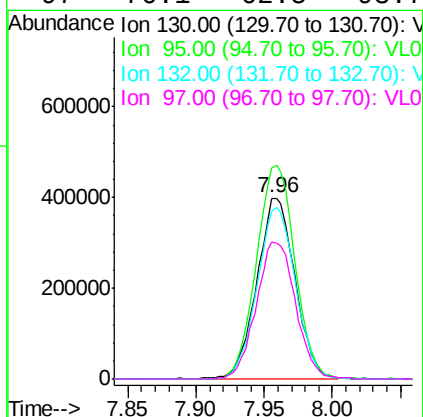
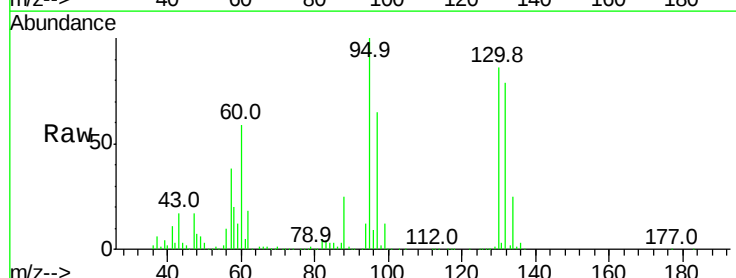
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

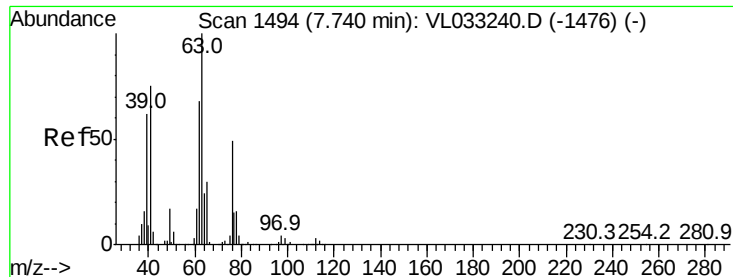
Tgt Ion: 62 Resp: 1121999
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.5 6.7



#38
 Trichloroethene
 Concen: 9.162 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

Tgt Ion: 130 Resp: 771043
 Ion Ratio Lower Upper
 130 100
 95 116.7 95.7 143.5
 132 92.5 77.4 116.2
 97 76.1 62.5 93.7

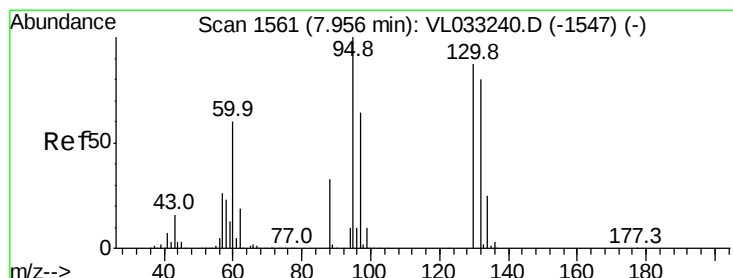
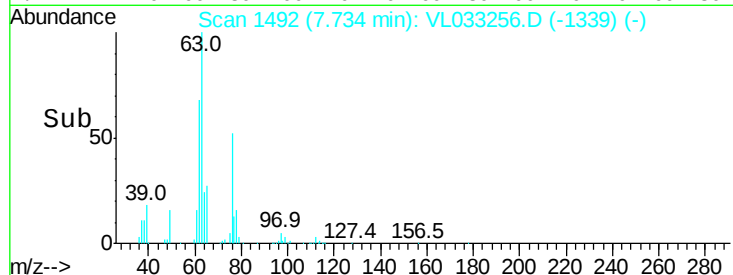
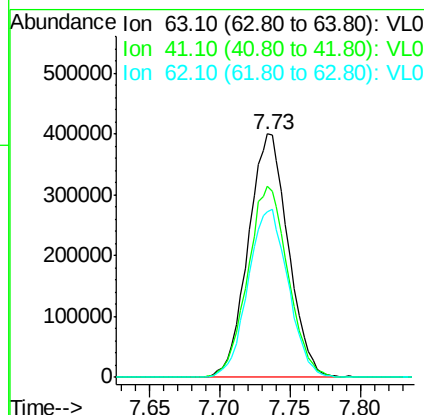
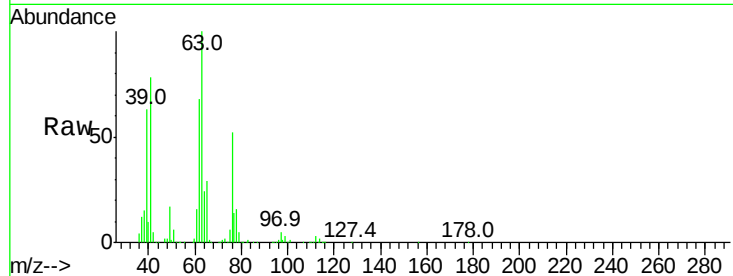




#39
 1,2-Dichloropropane
 Concen: 9.107 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

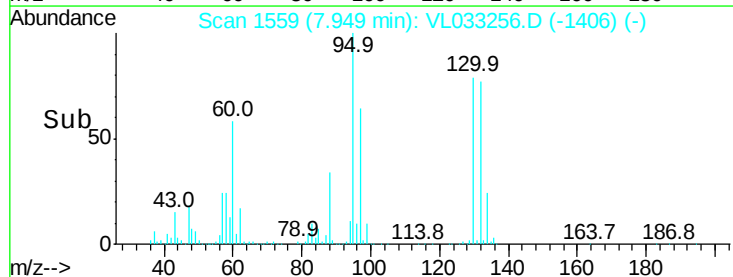
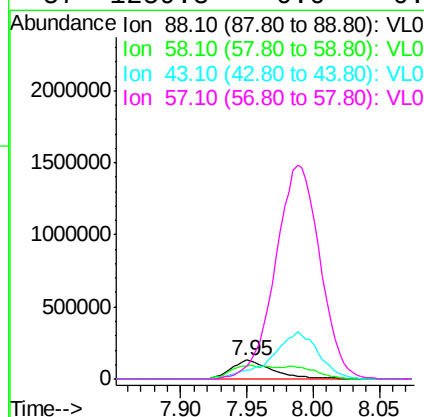
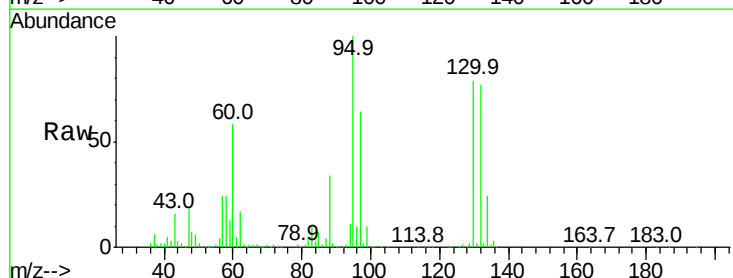
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

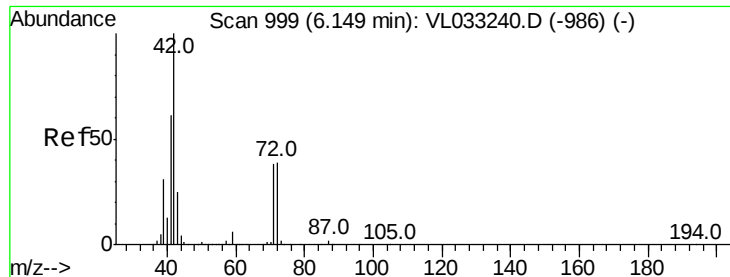
Tgt Ion: 63 Resp: 792370
 Ion Ratio Lower Upper
 63 100
 41 78.3 60.0 90.0
 62 68.2 54.2 81.4



#40
 1,4-Dioxane
 Concen: 8.599 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

Tgt Ion: 88 Resp: 277575
 Ion Ratio Lower Upper
 88 100
 58 135.5 105.1 157.7
 43 290.4 0.0 0.0#
 57 1259.8 0.0 0.0#





#41

Tetrahydrofuran

Concen: 8.166 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

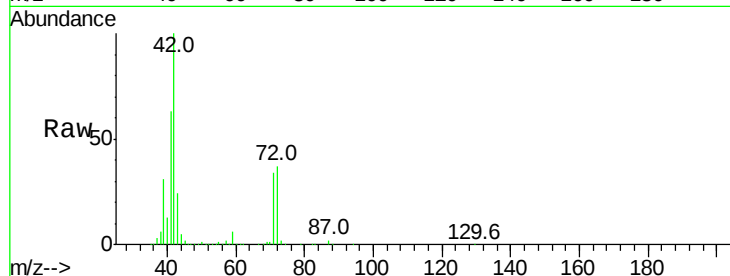
MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 42 Resp: 738087

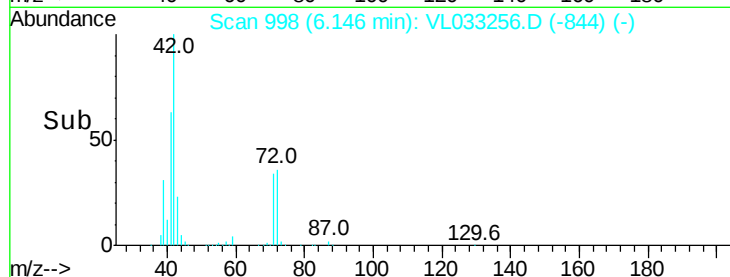
Ion	Ratio	Lower	Upper
42	100		
72	37.7	30.2	45.4
71	36.3	29.6	44.4



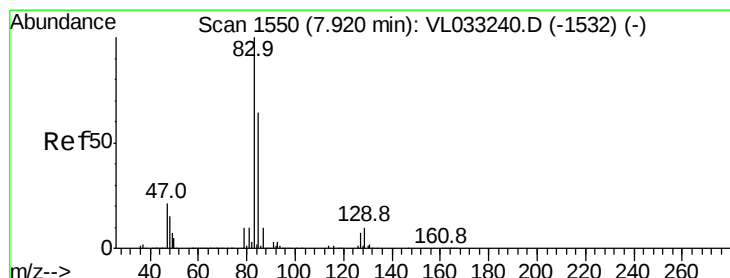
Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



Time-->



#42

Bromodichloromethane

Concen: 9.196 ppbv

RT: 7.91 min Scan# 1548

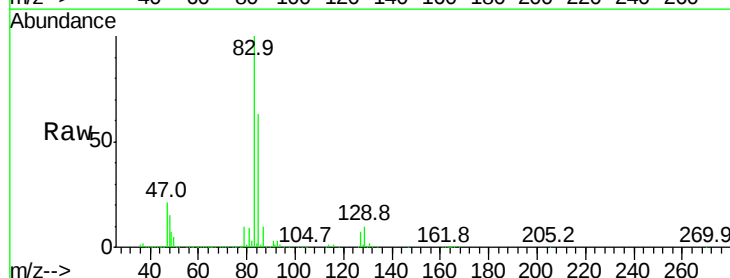
Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Tgt Ion: 83 Resp: 1803696

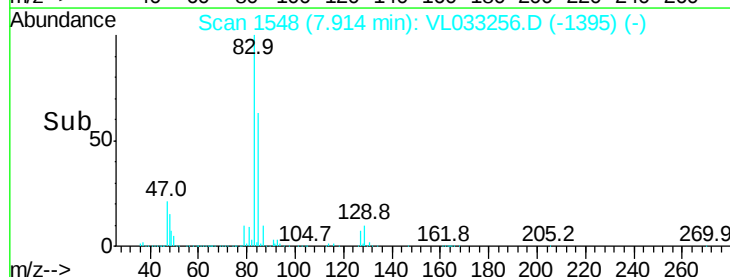
Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.5	77.3
127	7.4	5.9	8.9



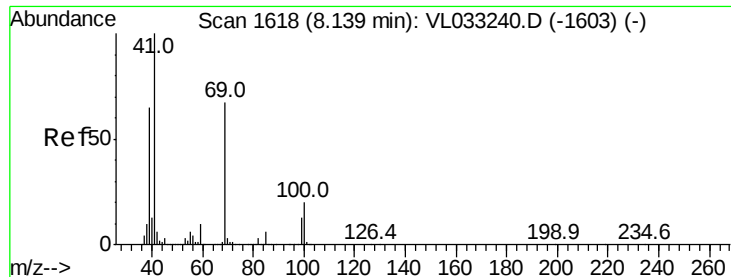
Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V



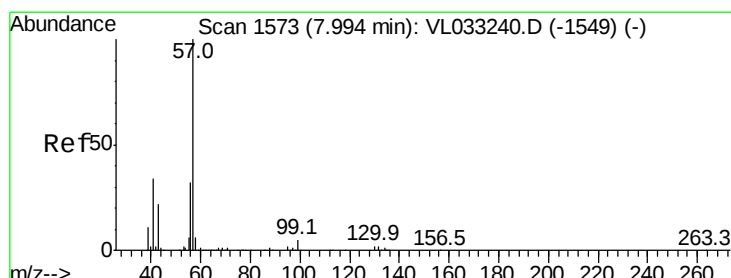
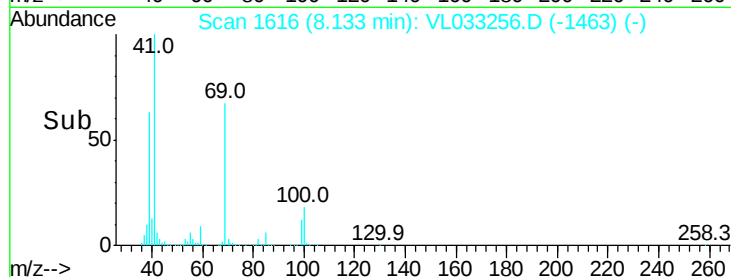
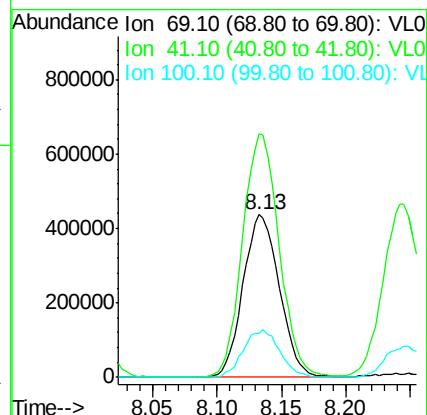
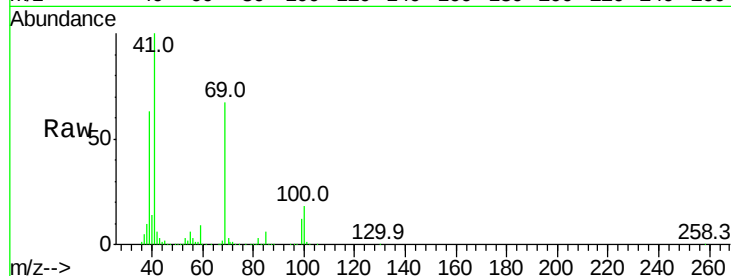
Time-->



#43
Methyl Methacrylate
Concen: 9.524 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VL033256.D
Acq: 8 Mar 2019 12:46

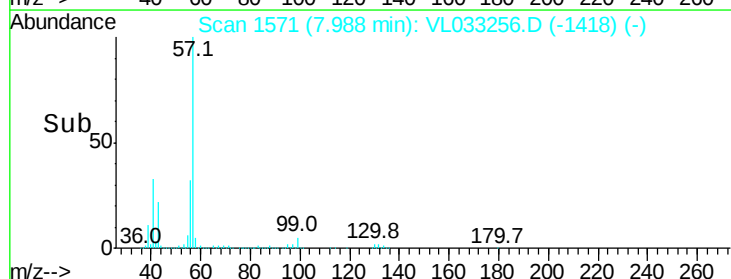
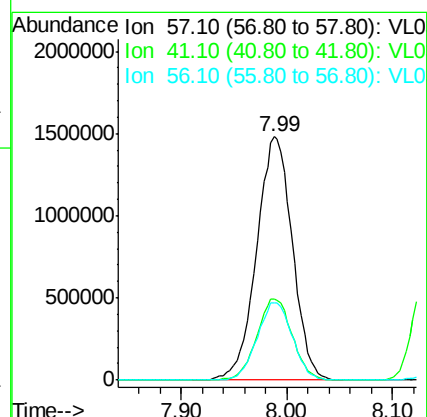
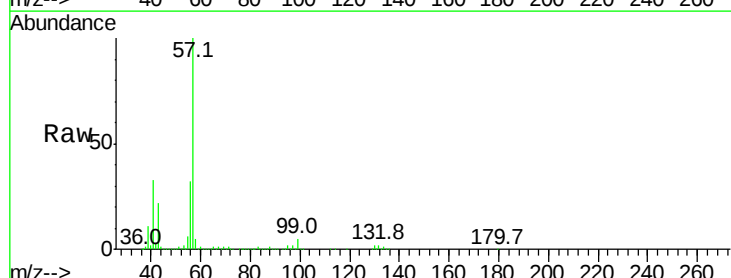
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

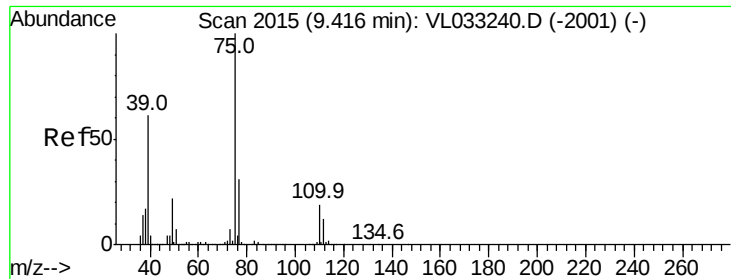
Tgt Ion: 69 Resp: 858574
Ion Ratio Lower Upper
69 100
41 150.4 120.9 181.3
100 29.4 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 8.863 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033256.D
Acq: 8 Mar 2019 12:46

Tgt Ion: 57 Resp: 3492774
Ion Ratio Lower Upper
57 100
41 33.0 26.1 39.1
56 31.4 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 10.314 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

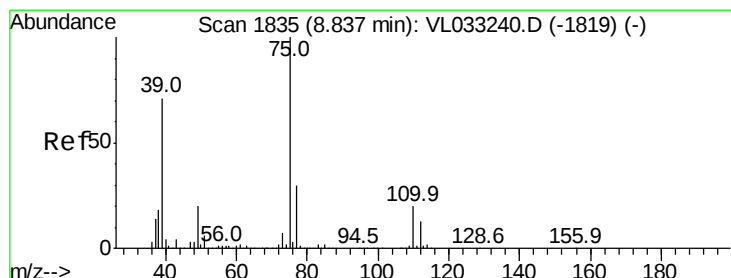
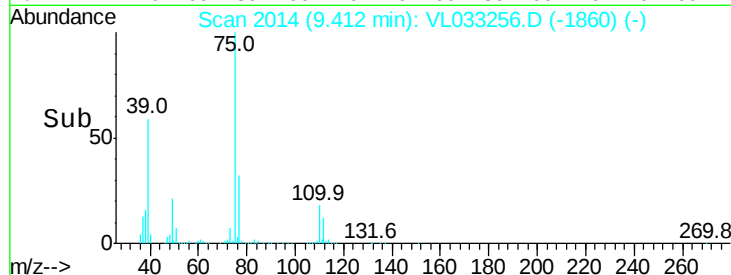
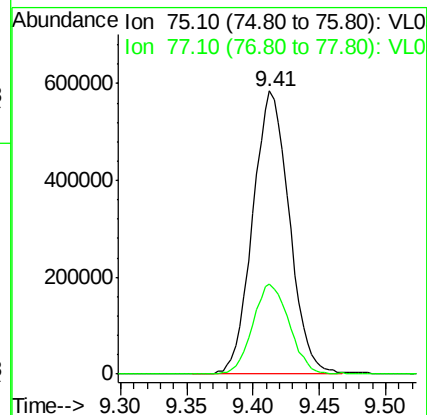
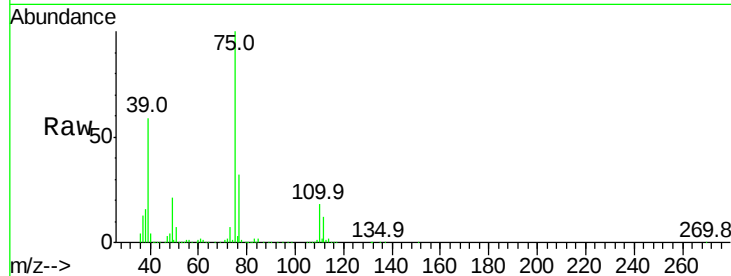
VSTDICCC010

Tgt Ion: 75 Resp: 1125152

Ion Ratio Lower Upper

75 100

77 31.7 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 9.920 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

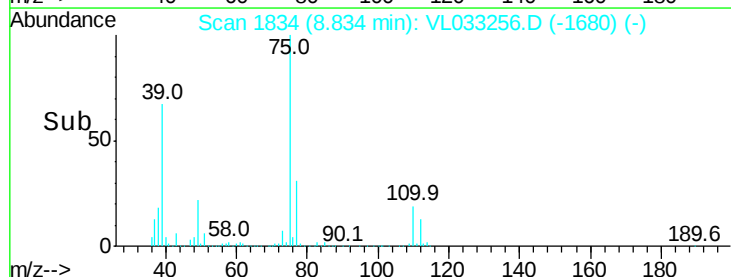
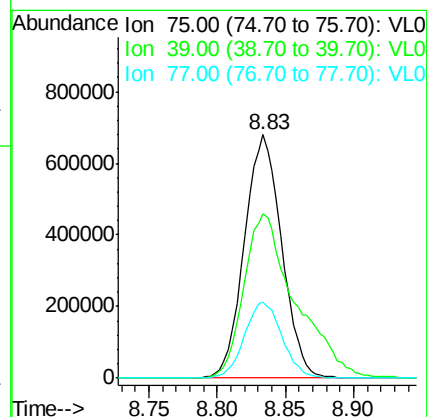
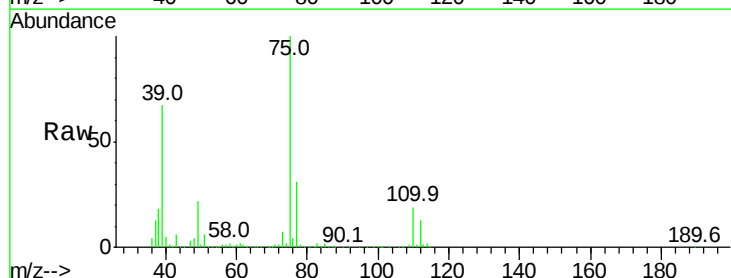
Tgt Ion: 75 Resp: 1290828

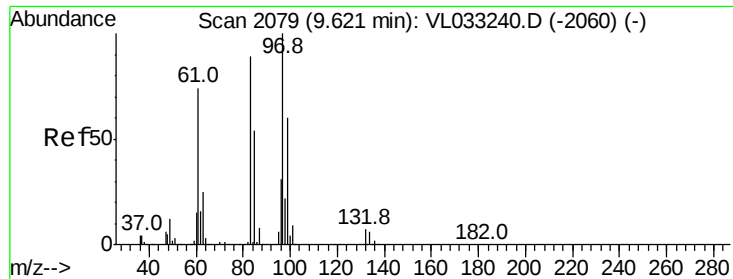
Ion Ratio Lower Upper

75 100

39 67.2 57.0 85.6

77 31.3 24.0 36.0

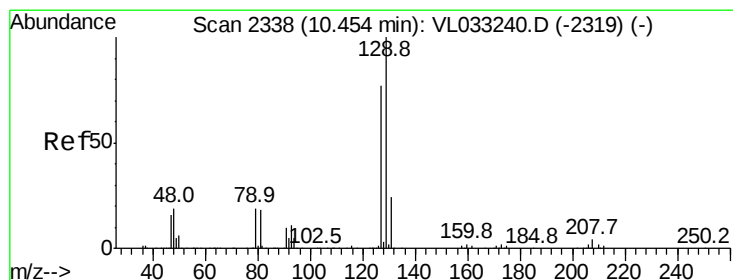
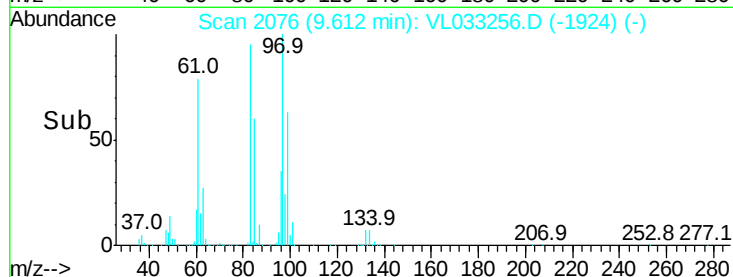
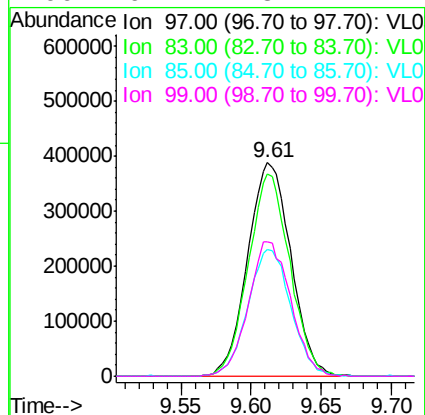
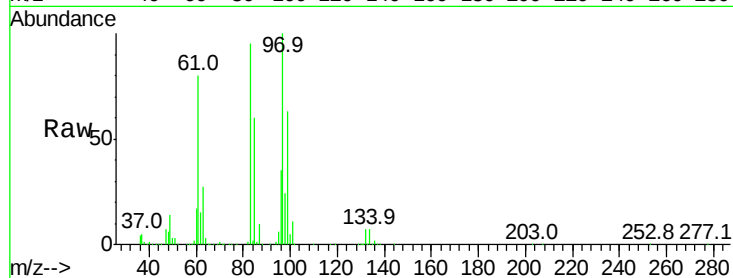




#47
 1,1,2-Trichloroethane
 Concen: 8.884 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

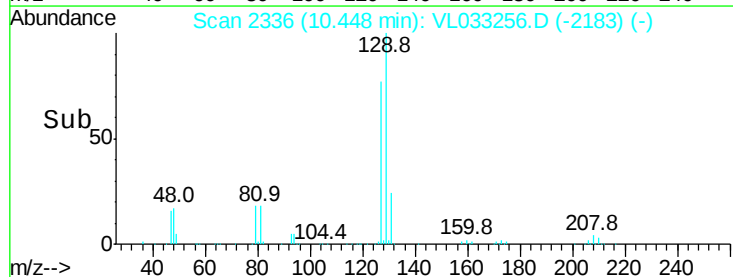
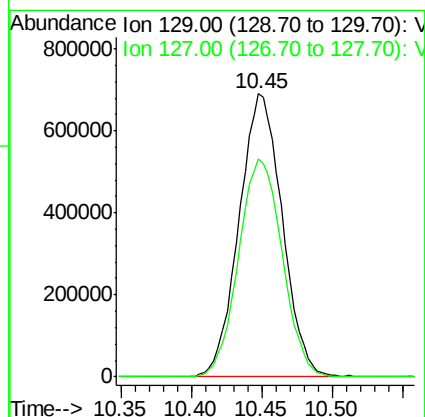
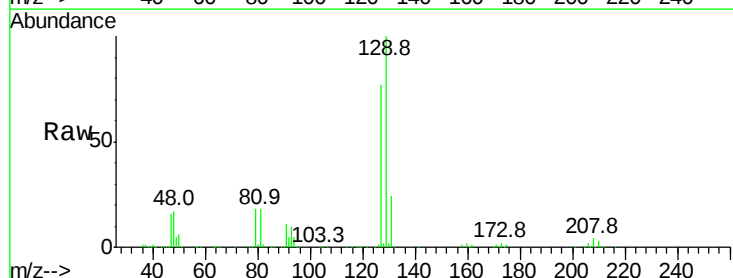
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

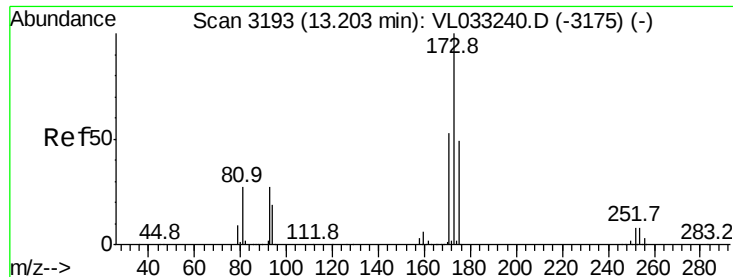
Tgt Ion: 97 Resp: 831865
 Ion Ratio Lower Upper
 97 100
 83 94.8 71.1 106.7
 85 59.4 42.9 64.3
 99 62.7 48.2 72.4



#48
 Dibromochloromethane
 Concen: 9.679 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

Tgt Ion: 129 Resp: 1468027
 Ion Ratio Lower Upper
 129 100
 127 78.8 39.0 117.0





#49

Bromoform

Concen: 9.899 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

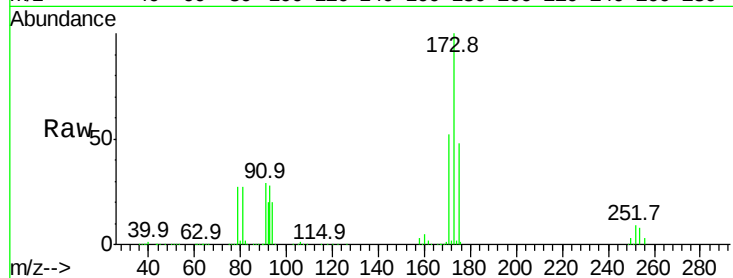
Tgt Ion:173 Resp: 1199002

Ion Ratio Lower Upper

173 100

175 48.5 38.9 58.3

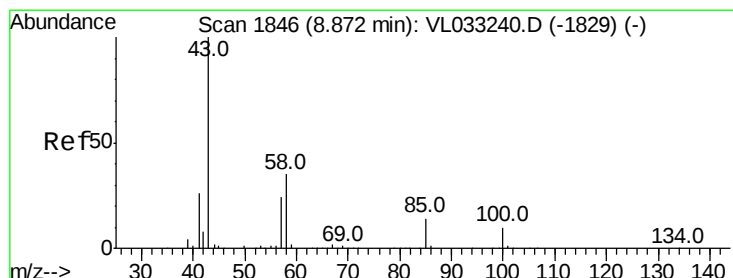
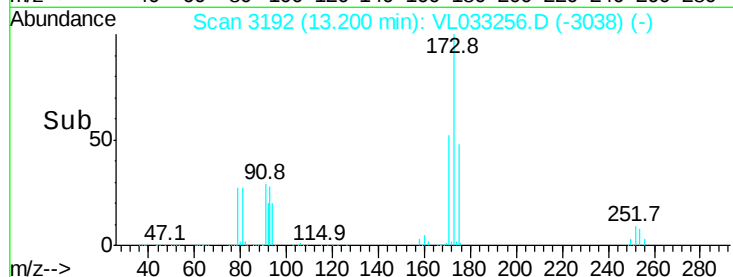
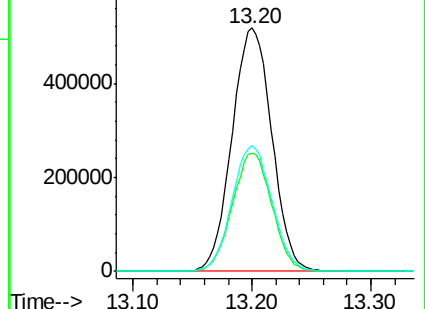
171 51.9 41.4 62.0



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: 8.879 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: VL033256.D

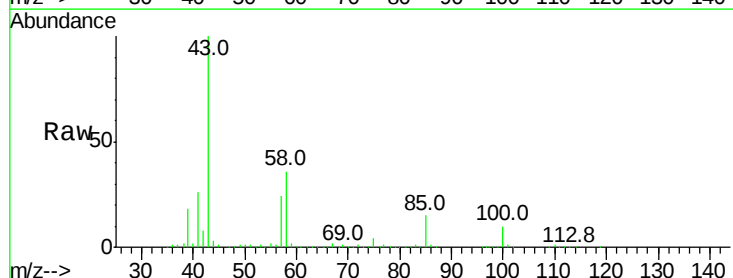
Acq: 8 Mar 2019 12:46

Tgt Ion: 43 Resp: 2160477

Ion Ratio Lower Upper

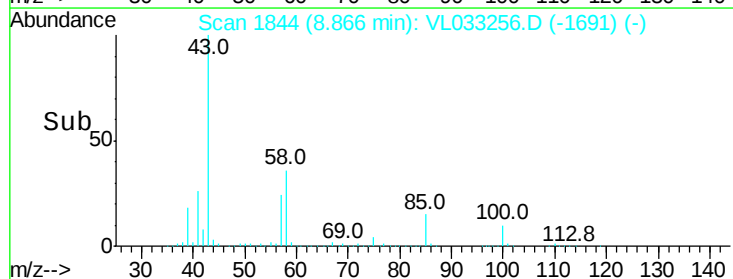
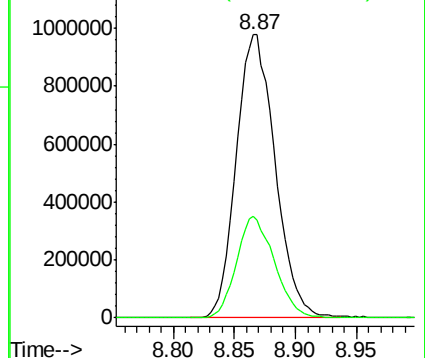
43 100

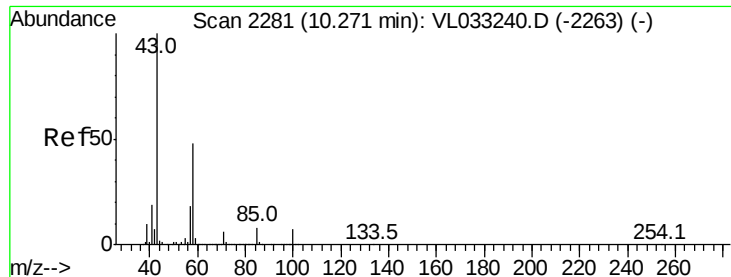
58 35.1 27.8 41.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

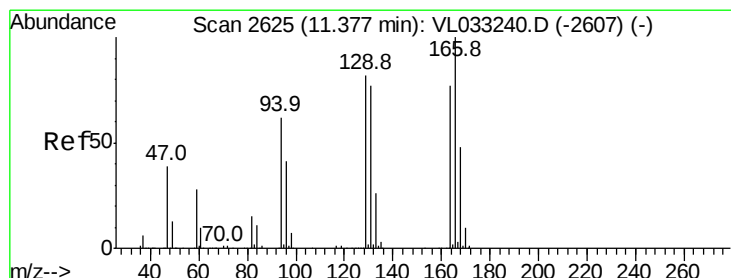
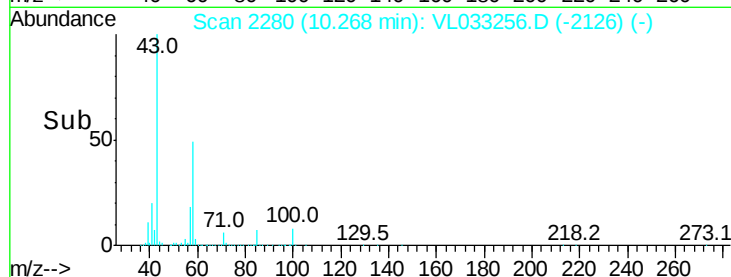
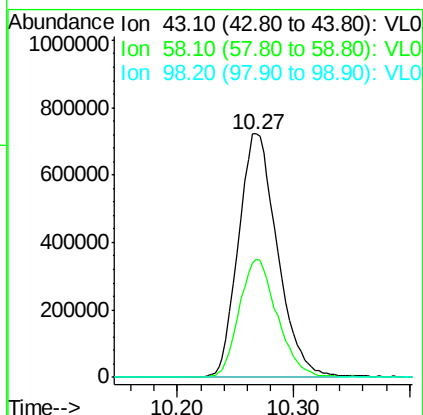
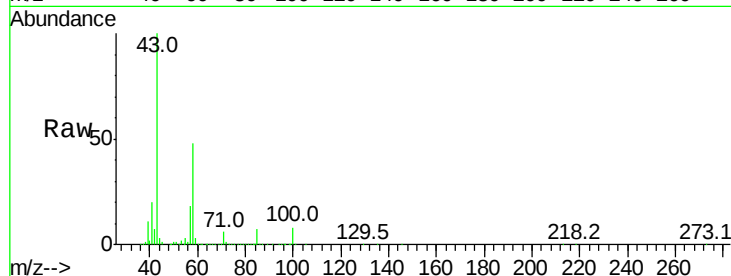




#51
2-Hexanone
Concen: 9.253 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. -0.00 min
Lab File: VL033256.D
Acq: 8 Mar 2019 12:46

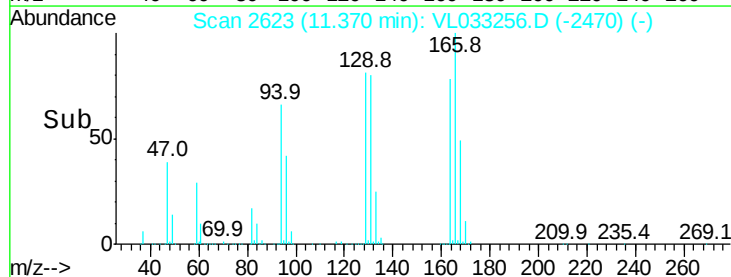
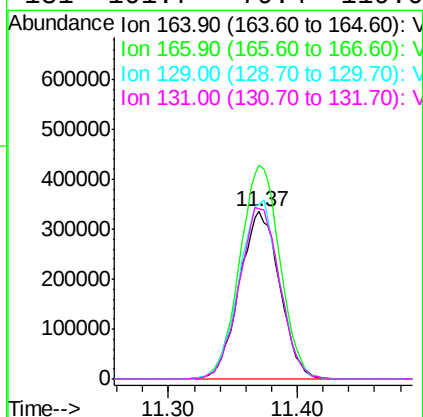
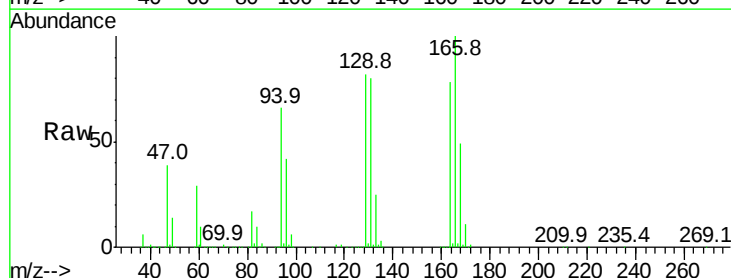
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

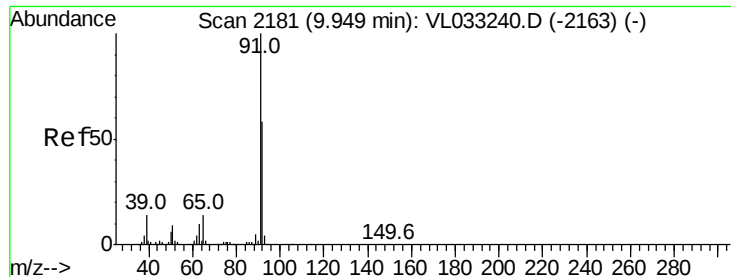
Tgt Ion: 43 Resp: 1684178
Ion Ratio Lower Upper
43 100
58 47.6 38.2 57.2
98 0.3 0.2 0.4



#52
Tetrachloroethene
Concen: 8.789 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033256.D
Acq: 8 Mar 2019 12:46

Tgt Ion: 164 Resp: 729937
Ion Ratio Lower Upper
164 100
166 127.5 103.3 154.9
129 104.0 84.4 126.6
131 101.7 79.4 119.0





#53

Toluene

Concen: 9.294 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

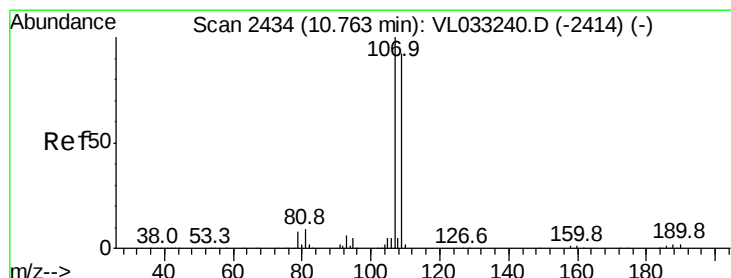
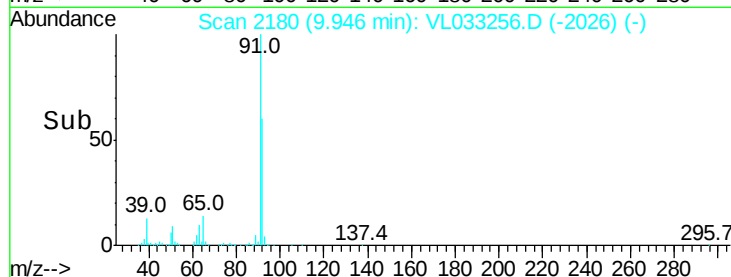
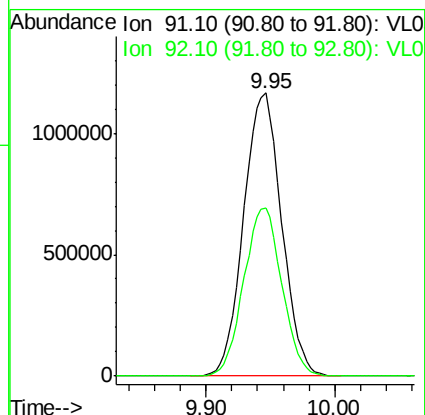
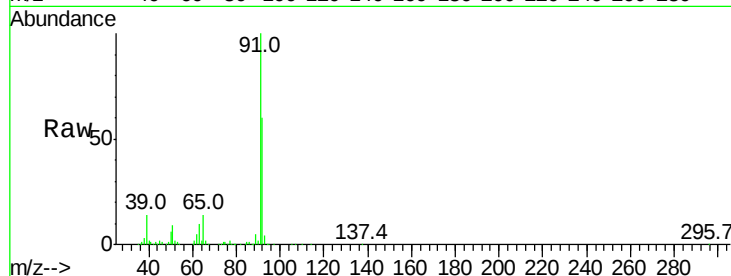
VSTDICCC010

Tgt Ion: 91 Resp: 2394563

Ion Ratio Lower Upper

91 100

92 59.6 47.4 71.2



#54

1,2-Dibromoethane

Concen: 9.150 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033256.D

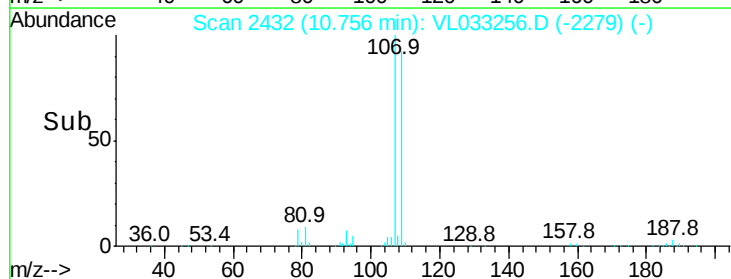
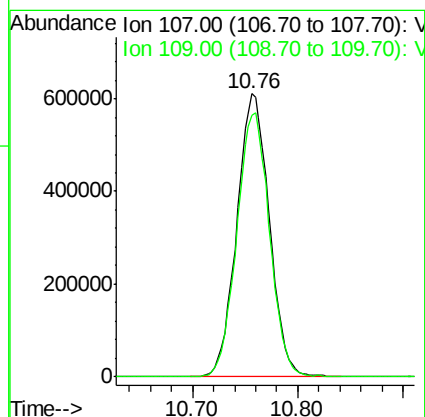
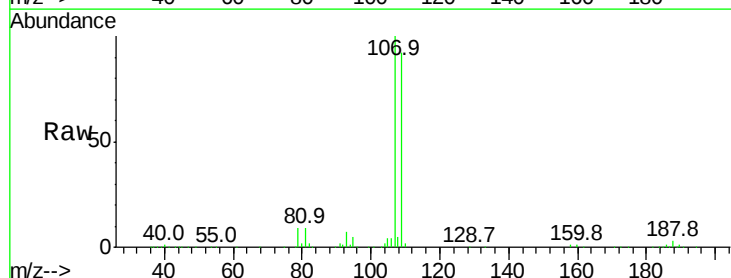
Acq: 8 Mar 2019 12:46

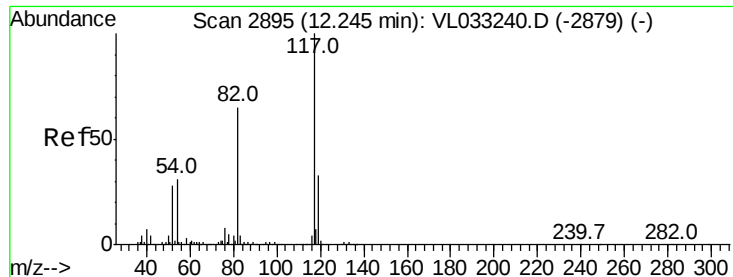
Tgt Ion: 107 Resp: 1301571

Ion Ratio Lower Upper

107 100

109 92.4 73.6 110.4

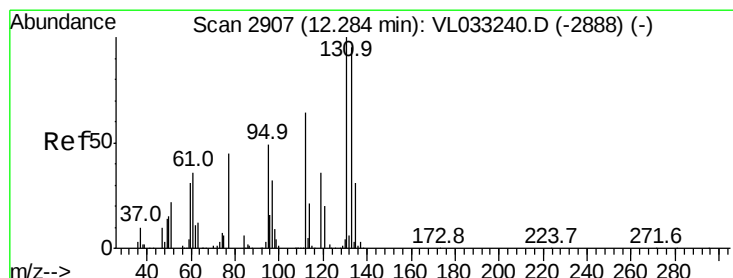
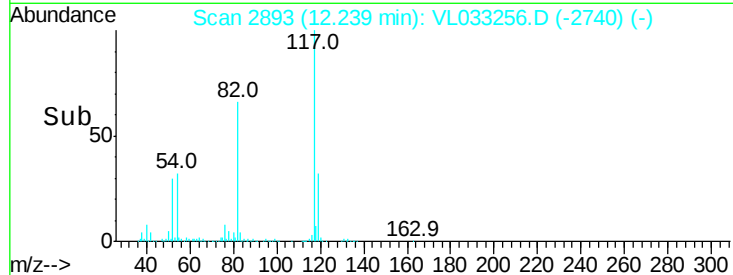
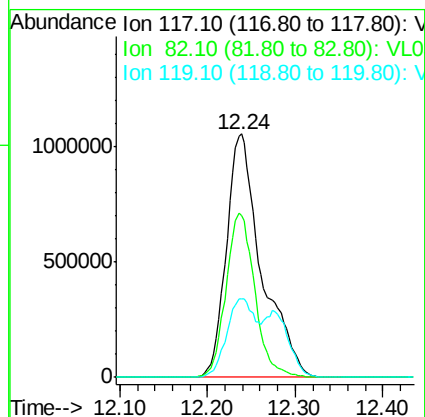
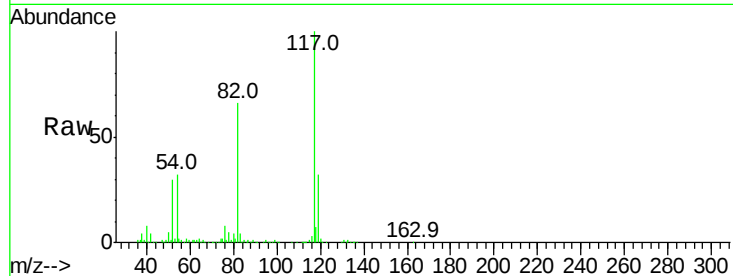




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033256.D
Acq: 8 Mar 2019 12:46

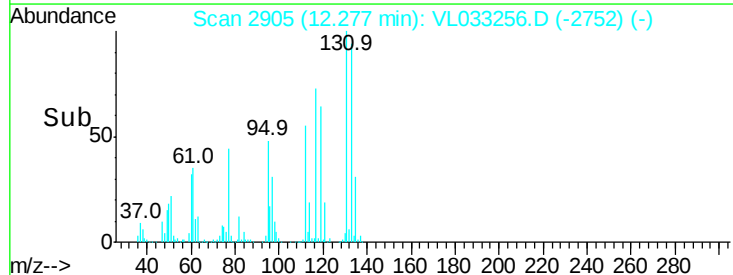
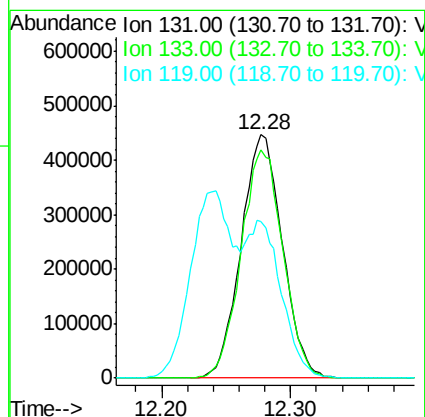
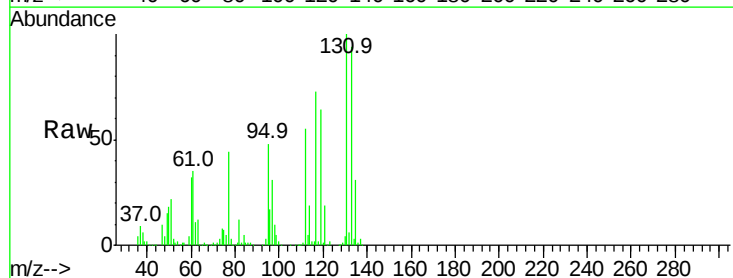
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

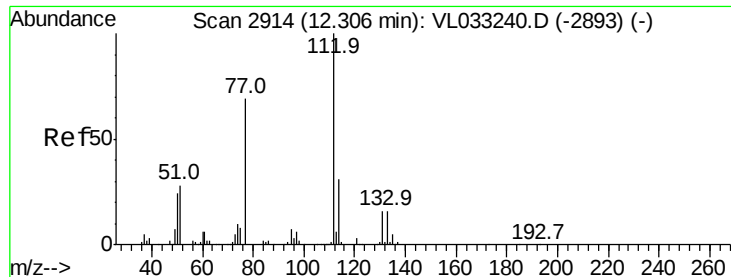
Tgt Ion:117 Resp: 2952895
Ion Ratio Lower Upper
117 100
82 55.3 51.8 77.8
119 46.0 43.6 65.4



#56
1,1,1,2-Tetrachloroethane
Concen: 7.760 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033256.D
Acq: 8 Mar 2019 12:46

Tgt Ion:131 Resp: 994737
Ion Ratio Lower Upper
131 100
133 95.4 76.2 114.2
119 136.5 108.9 163.3





#57

Chlorobenzene

Concen: 7.306 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

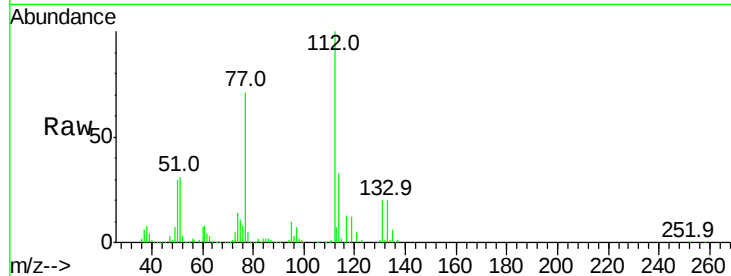
Tgt Ion:112 Resp: 1679628

Ion Ratio Lower Upper

112 100

77 71.0 56.5 84.7

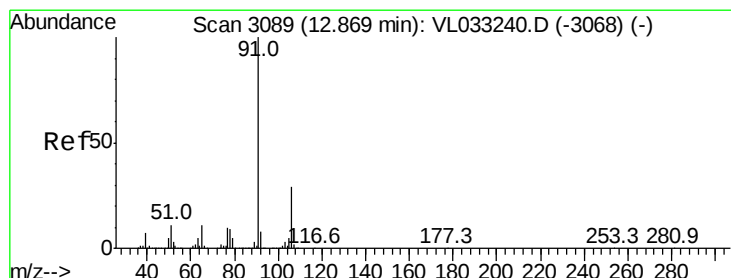
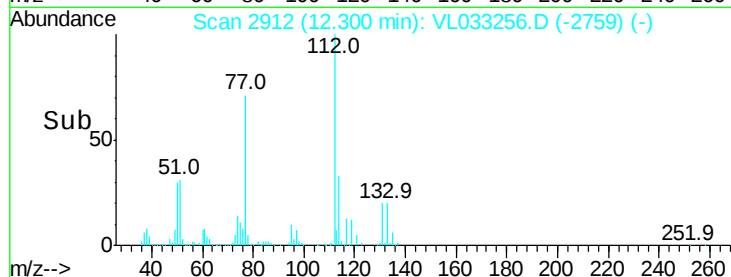
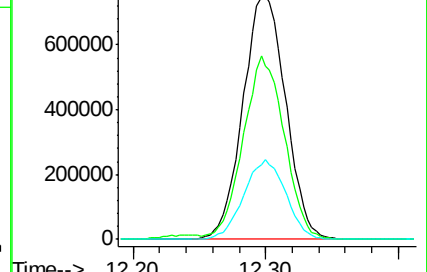
114 32.8 28.4 34.7



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 7.926 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.01 min

Lab File: VL033256.D

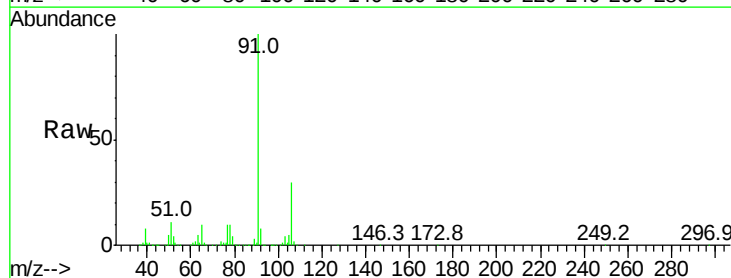
Acq: 8 Mar 2019 12:46

Tgt Ion: 91 Resp: 3237277

Ion Ratio Lower Upper

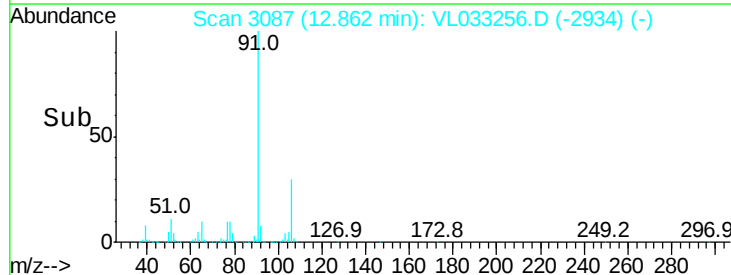
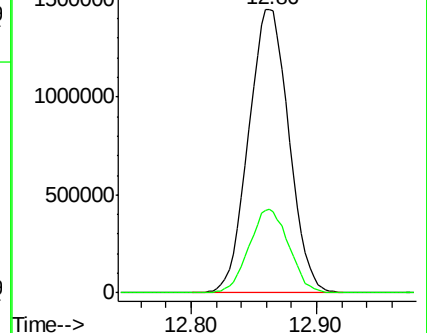
91 100

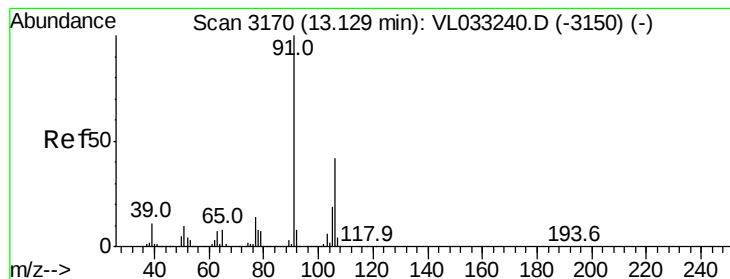
106 29.6 23.5 35.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 8.185 ppbv

RT: 13.13 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

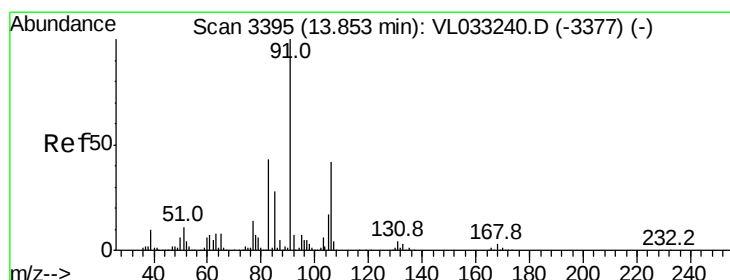
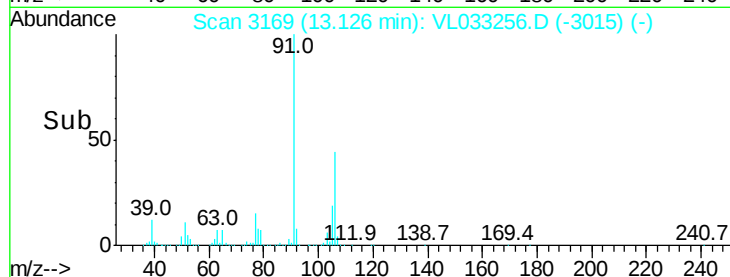
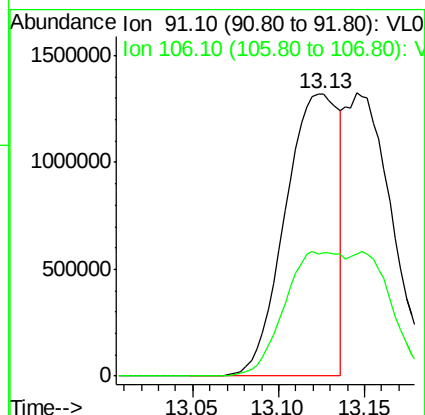
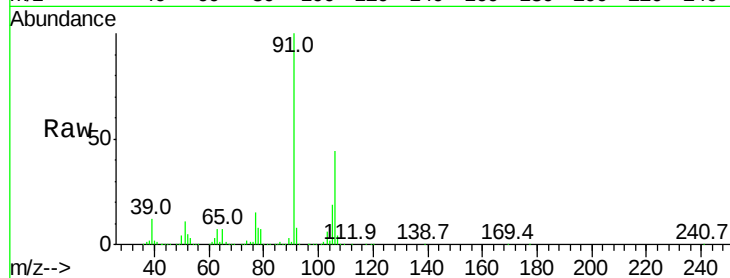
VSTDICCC010

Tgt Ion: 91 Resp: 2848794

Ion Ratio Lower Upper

91 100

106 82.8 35.6 53.4#



#60

o-Xylene

Concen: 7.819 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VL033256.D

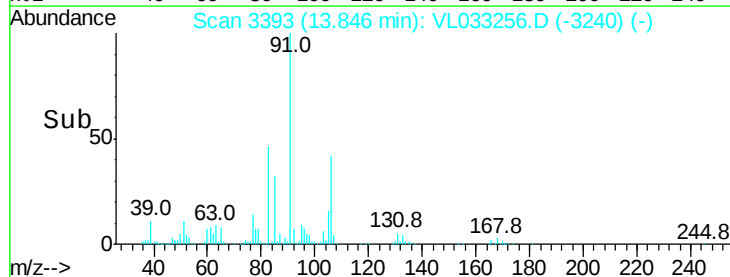
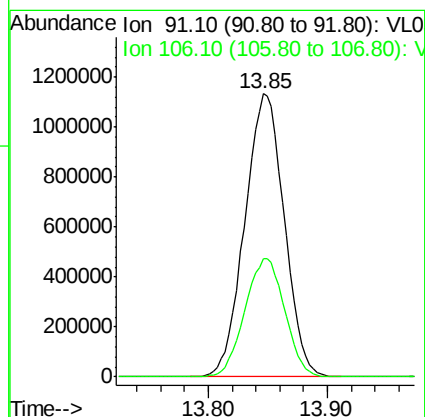
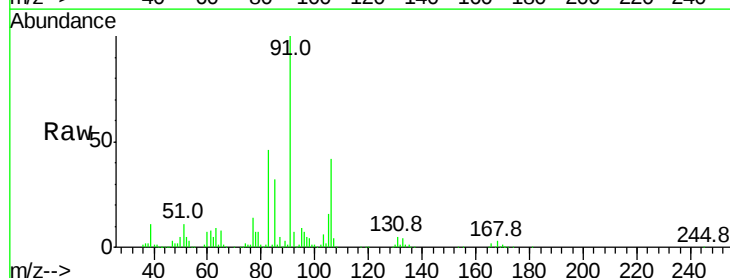
Acq: 8 Mar 2019 12:46

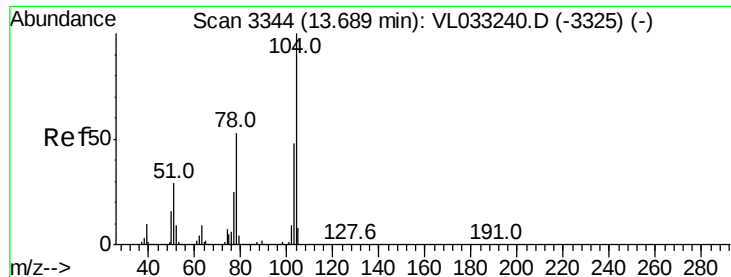
Tgt Ion: 91 Resp: 2594798

Ion Ratio Lower Upper

91 100

106 42.3 21.4 64.3





#61

Styrene

Concen: 8.137 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

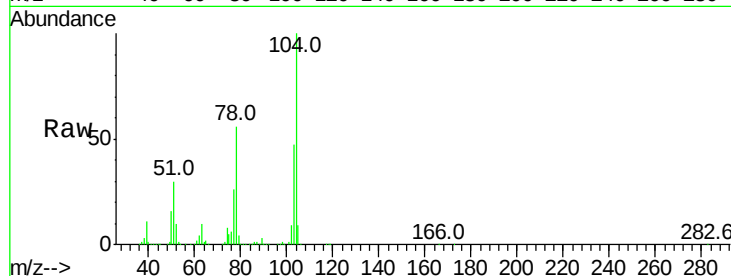
Tgt Ion:104 Resp: 1899126

Ion Ratio Lower Upper

104 100

78 54.9 43.7 65.5

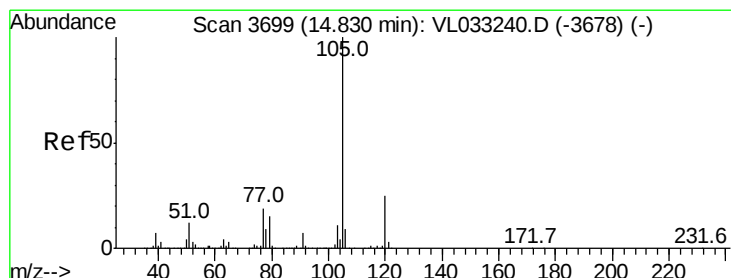
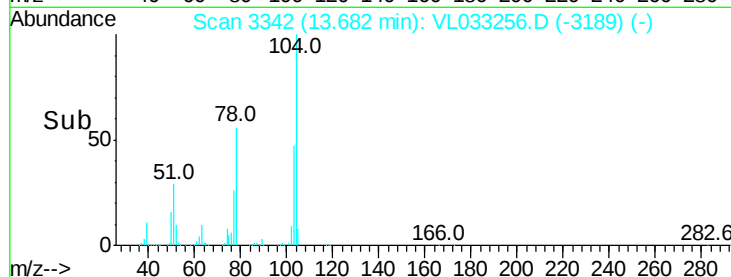
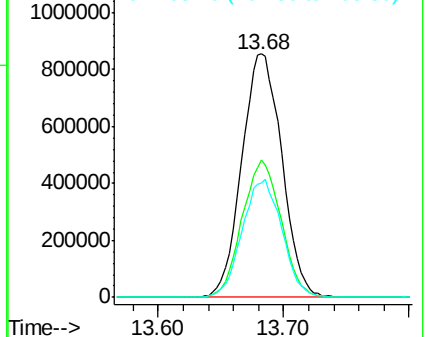
103 47.9 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.820 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL033256.D

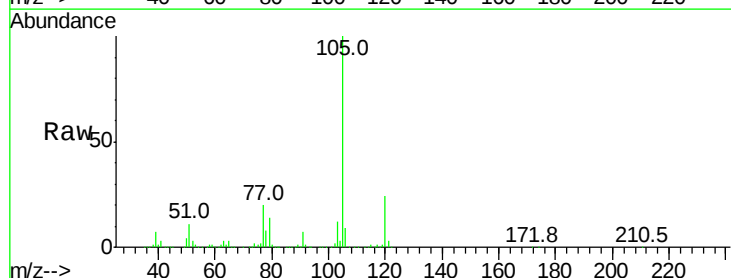
Acq: 8 Mar 2019 12:46

Tgt Ion:105 Resp: 3618150

Ion Ratio Lower Upper

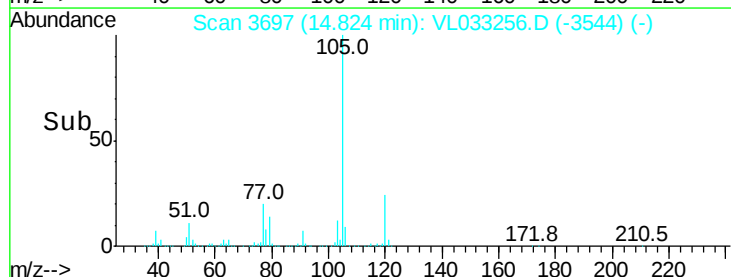
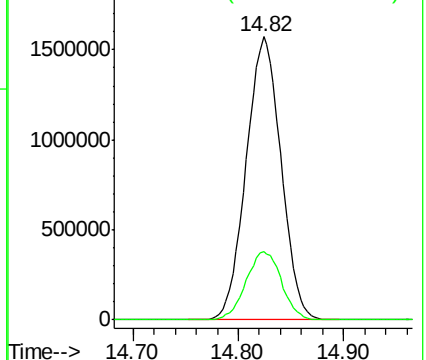
105 100

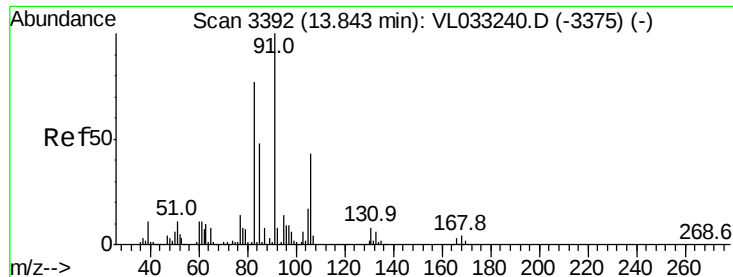
120 24.6 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.088 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

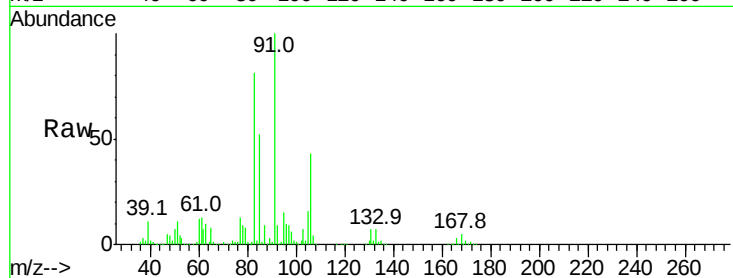
Tgt Ion: 83 Resp: 1673796

Ion Ratio Lower Upper

83 100

131 9.3 4.7 14.0

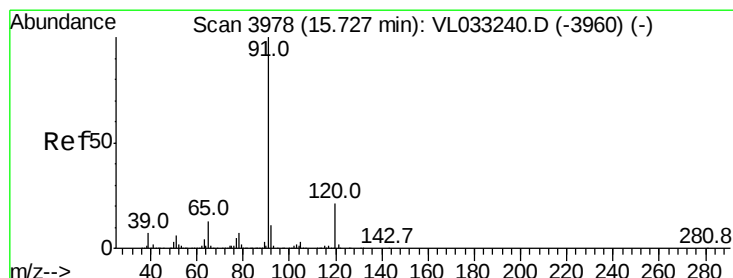
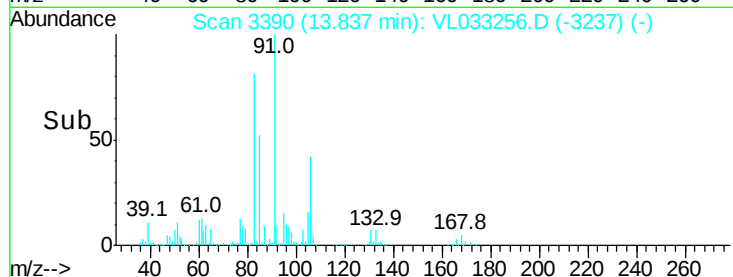
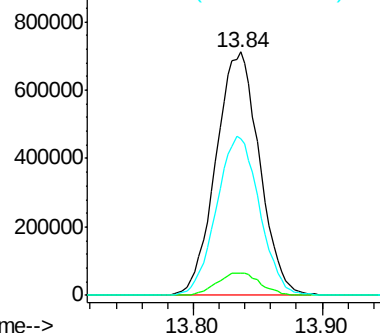
85 64.7 32.6 97.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.943 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. -0.01 min

Lab File: VL033256.D

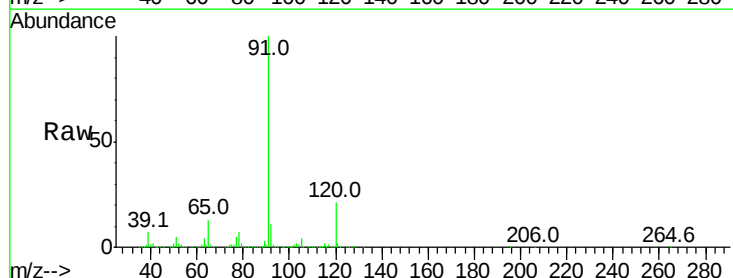
Acq: 8 Mar 2019 12:46

Tgt Ion: 120 Resp: 910951

Ion Ratio Lower Upper

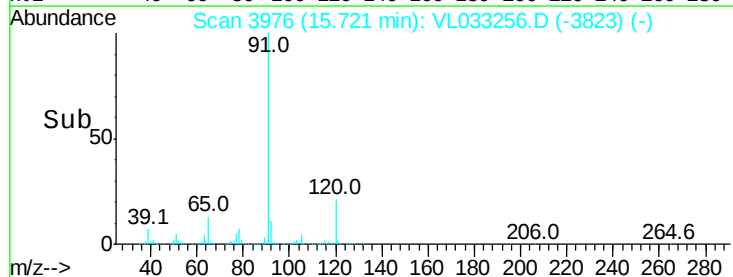
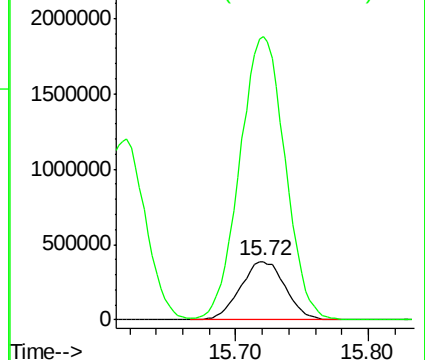
120 100

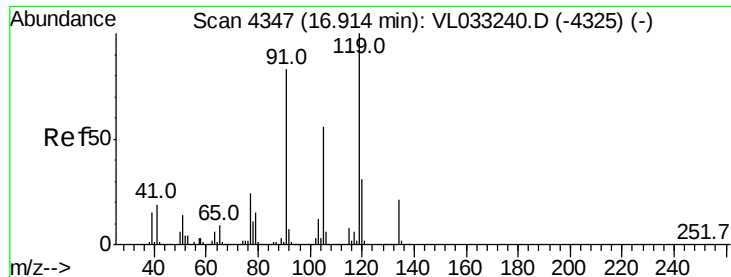
91 491.0 392.2 588.4



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

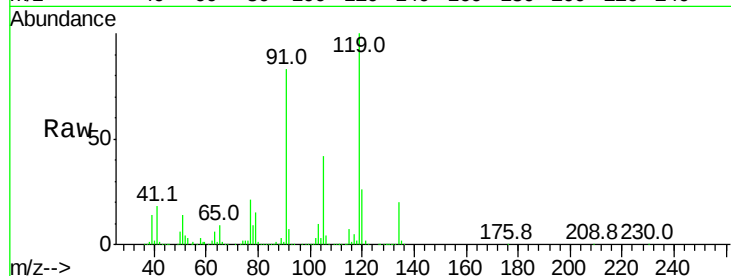




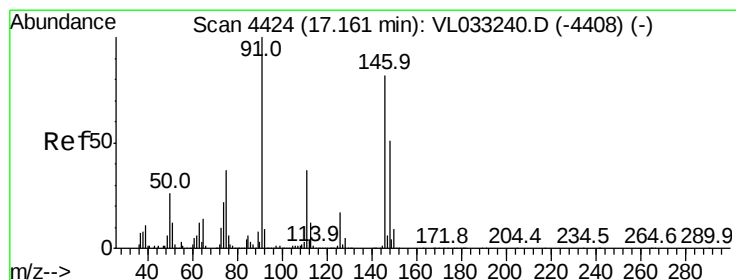
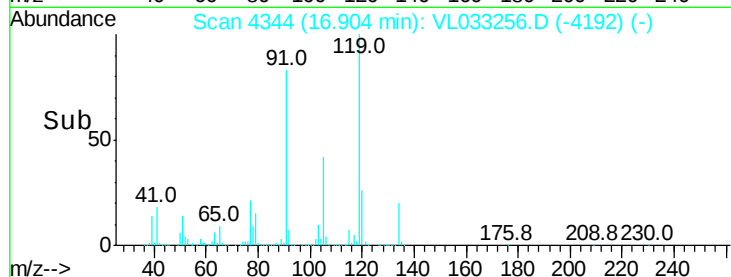
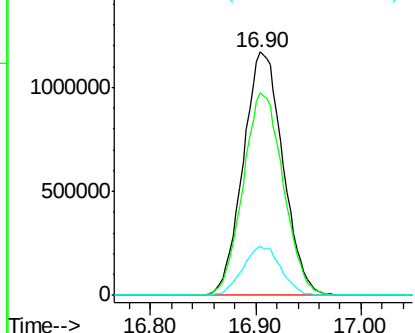
#65
 tert-Butylbenzene
 Concen: 7.772 ppbv
 RT: 16.90 min Scan# 4344
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 119 Resp: 3069933
 Ion Ratio Lower Upper
 119 100
 91 84.1 67.0 100.4
 134 19.4 15.4 23.2

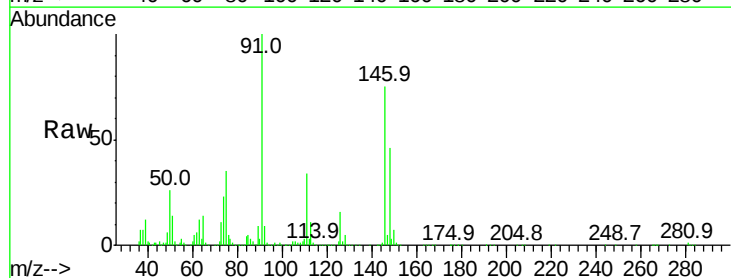


Abundance Ion 119.20 (118.90 to 119.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 134.20 (133.90 to 134.90): V

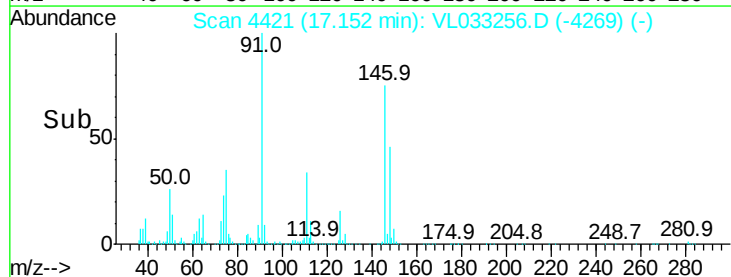
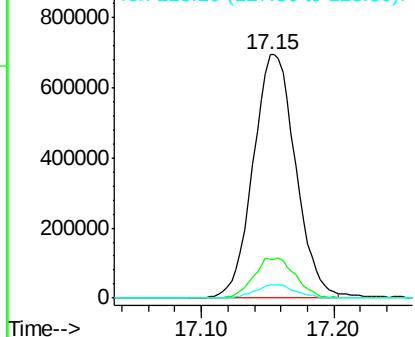


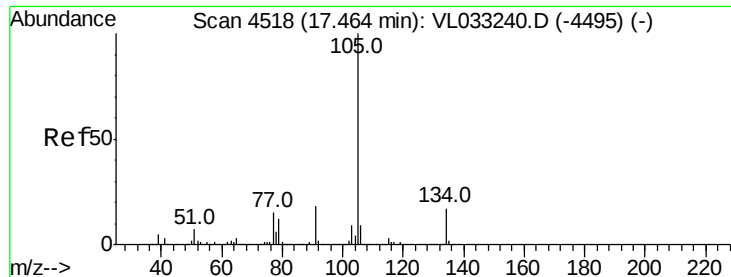
#66
 Benzyl Chloride
 Concen: 10.121 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

Tgt Ion: 91 Resp: 1546354
 Ion Ratio Lower Upper
 91 100
 126 16.3 13.4 20.0
 128 5.2 4.2 6.2



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: 7.862 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

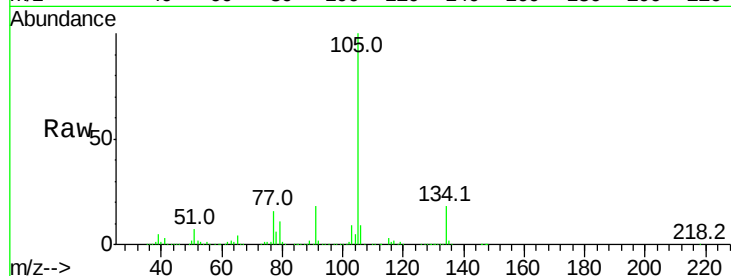
VSTDICCC010

Tgt Ion:105 Resp: 4427558

Ion Ratio Lower Upper

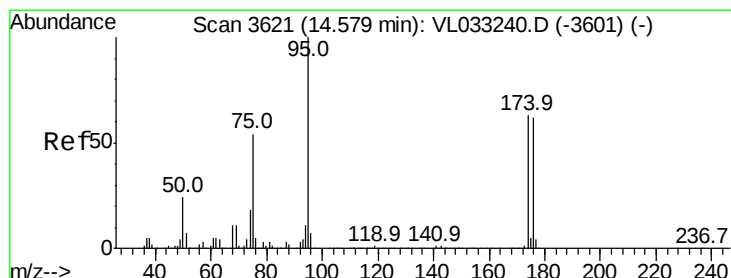
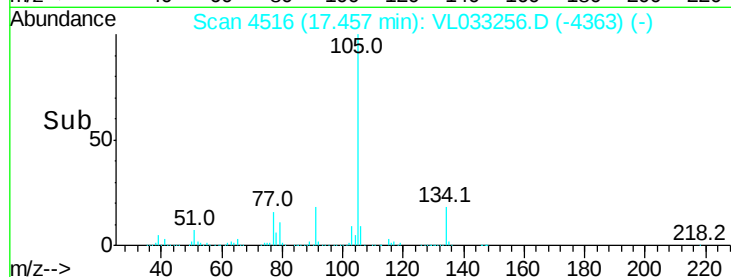
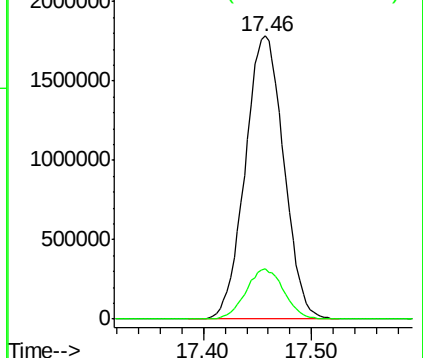
105 100

134 17.5 14.2 21.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.532 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

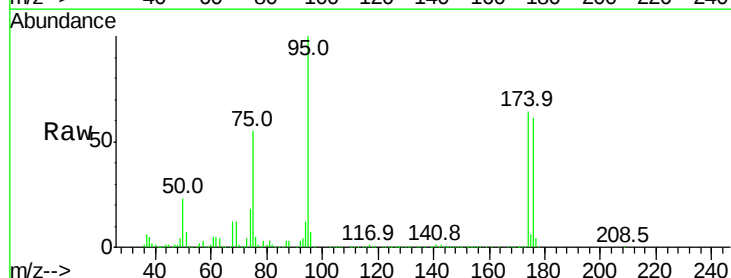
Tgt Ion: 95 Resp: 1911722

Ion Ratio Lower Upper

95 100

174 64.6 51.0 76.4

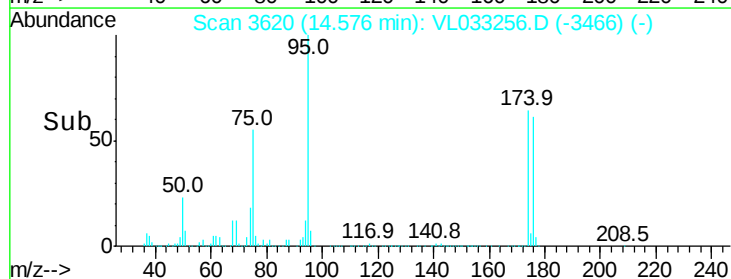
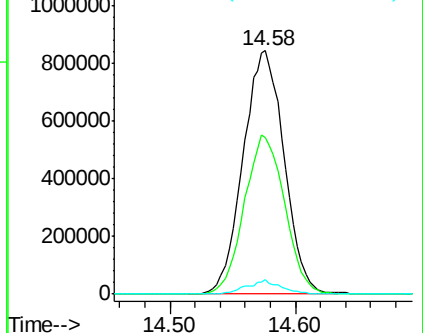
175 4.8 3.8 5.6

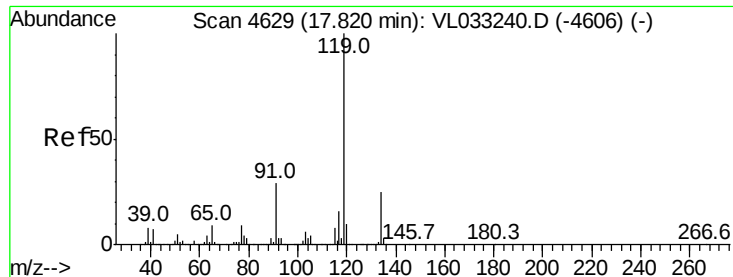


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

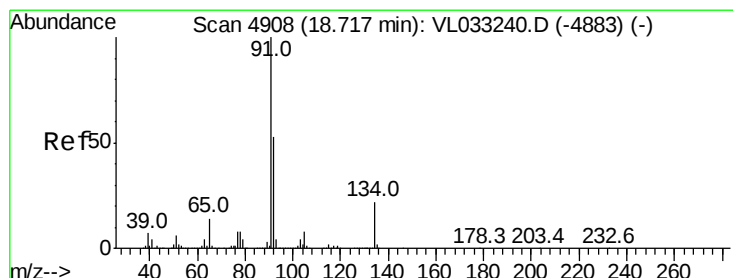
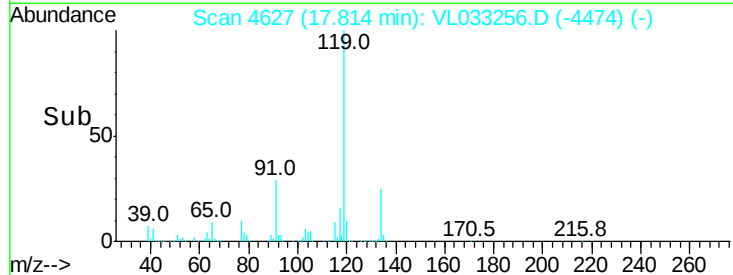
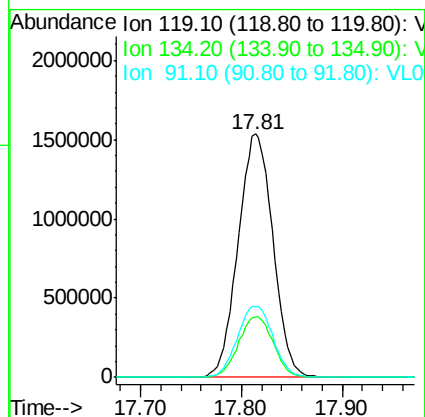
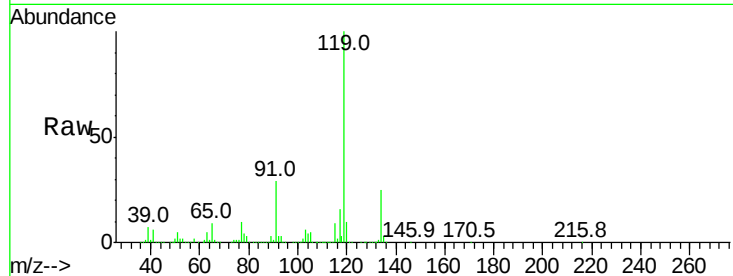




#69
 p-Isopropyltoluene
 Concen: 8.065 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

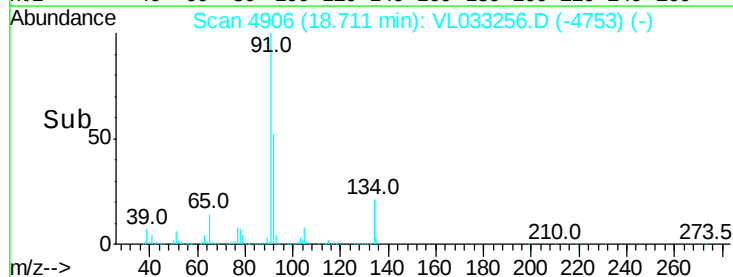
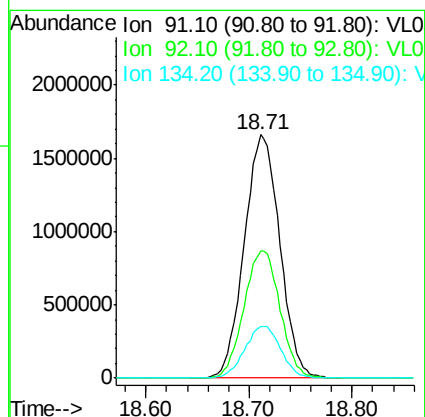
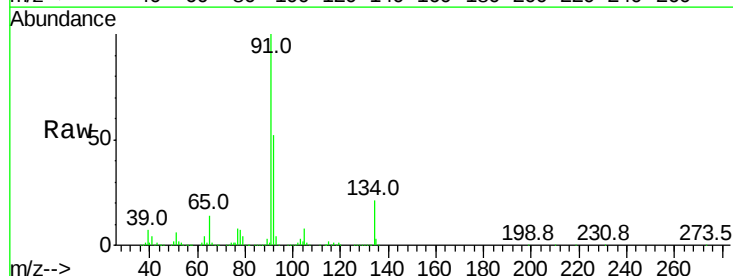
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

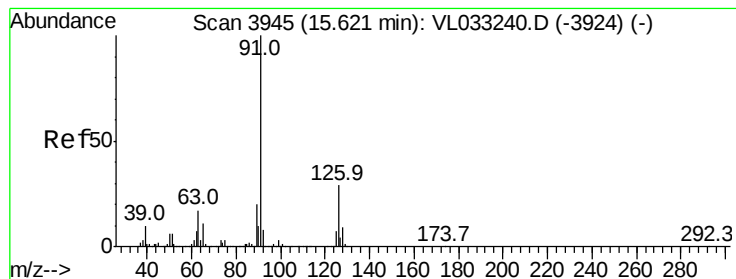
Tgt Ion: 119 Resp: 3672430
 Ion Ratio Lower Upper
 119 100
 134 24.8 19.9 29.9
 91 29.9 23.9 35.9



#70
 n-Butylbenzene
 Concen: 7.969 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. -0.01 min
 Lab File: VL033256.D
 Acq: 8 Mar 2019 12:46

Tgt Ion: 91 Resp: 3974912
 Ion Ratio Lower Upper
 91 100
 92 53.2 42.4 63.6
 134 21.6 17.3 25.9





#71

2-Chlorotoluene

Concen: 7.826 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

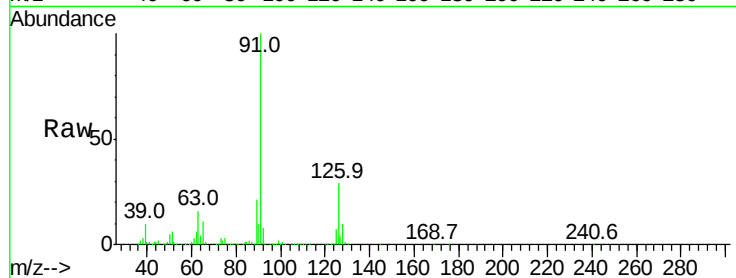
VSTDICCC010

Tgt Ion: 91 Resp: 2768602

Ion Ratio Lower Upper

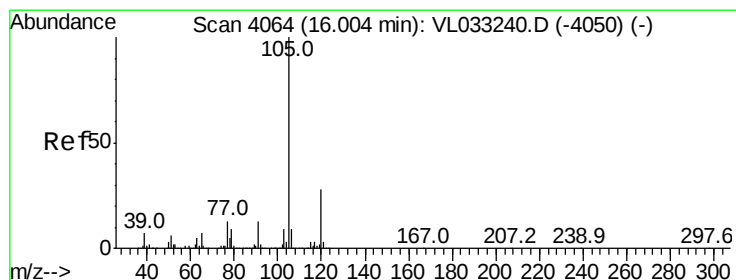
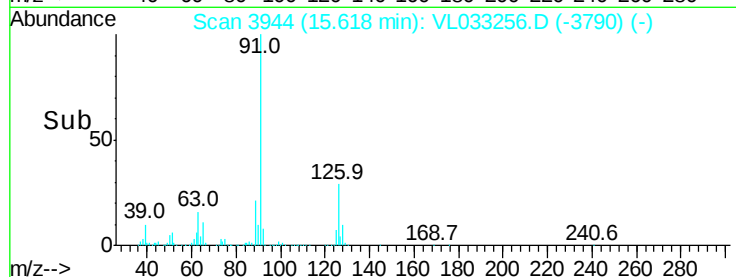
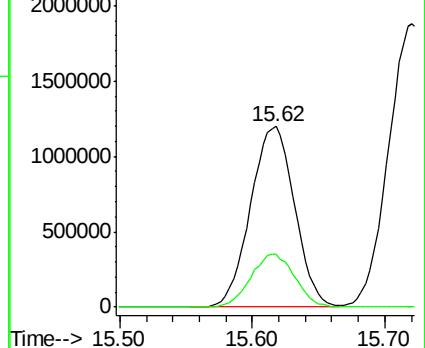
91 100

126 29.3 11.6 46.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.172 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Tgt Ion: 105 Resp: 2963665

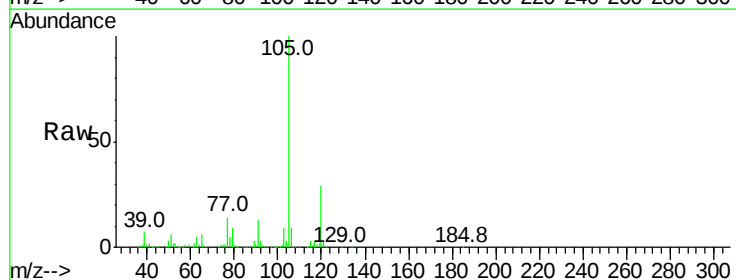
Ion Ratio Lower Upper

105 100

120 28.6 22.3 33.5

91 13.0 10.3 15.5

77 14.3 11.3 16.9

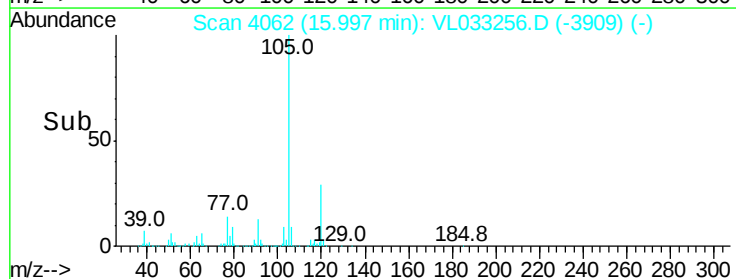
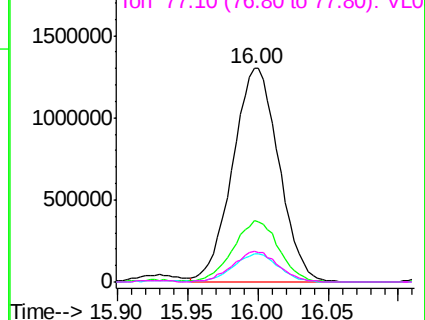


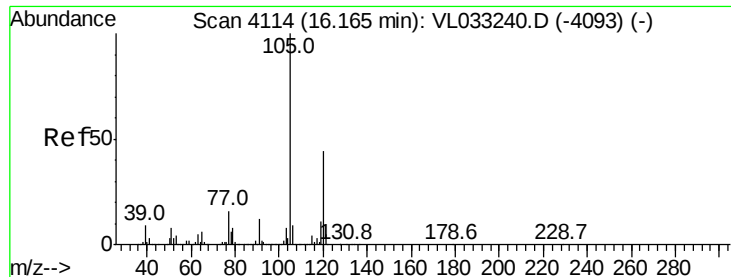
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.066 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

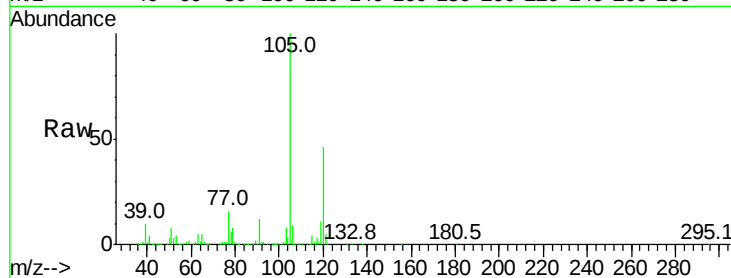
VSTDICCC010

Tgt Ion:105 Resp: 2807841

Ion Ratio Lower Upper

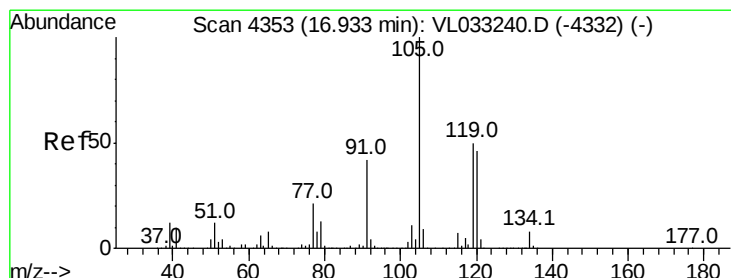
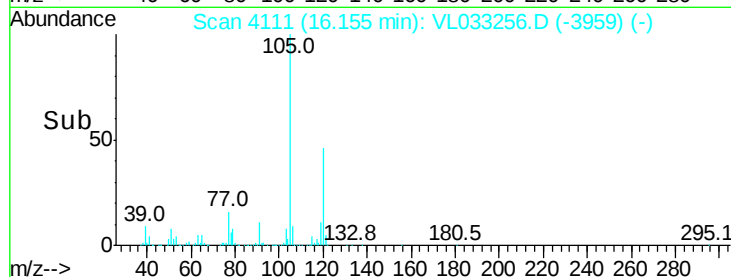
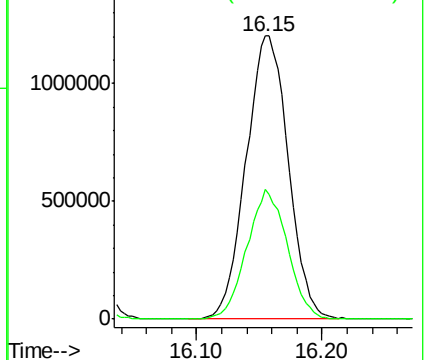
105 100

120 45.8 35.0 52.6



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: 7.802 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Tgt Ion:105 Resp: 2854759

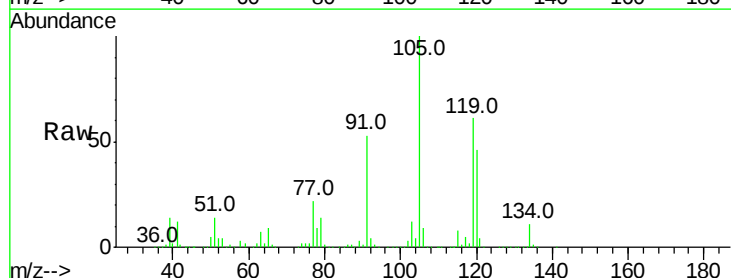
Ion Ratio Lower Upper

105 100

120 45.9 36.5 54.7

91 52.6 34.4 51.6#

77 22.2 17.0 25.4

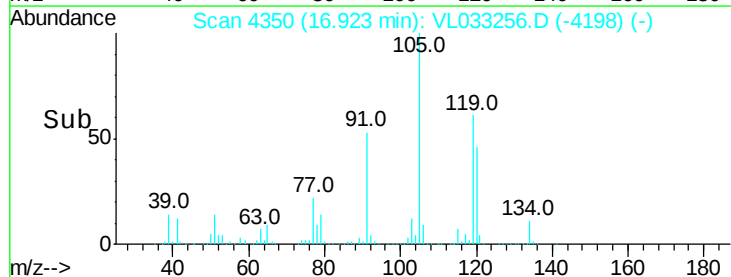
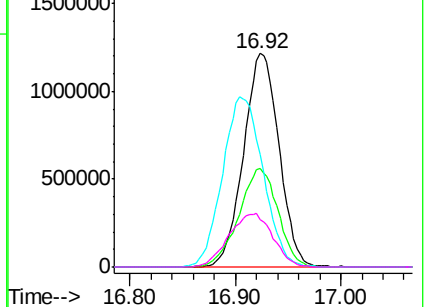


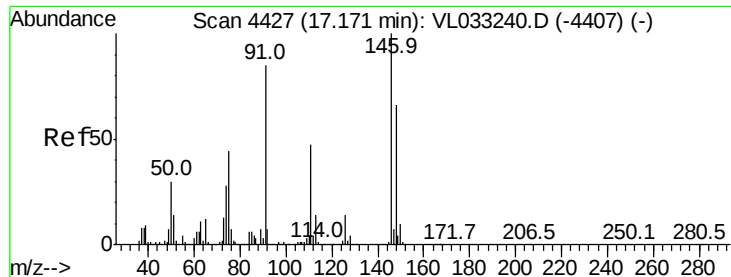
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 7.724 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

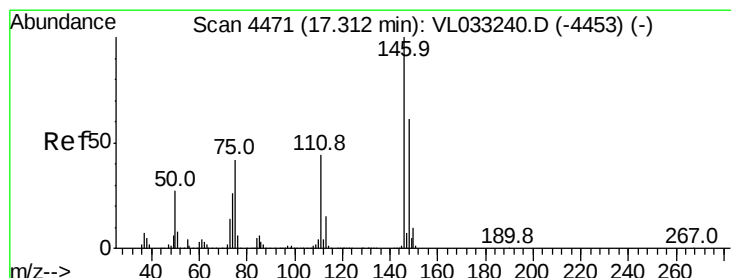
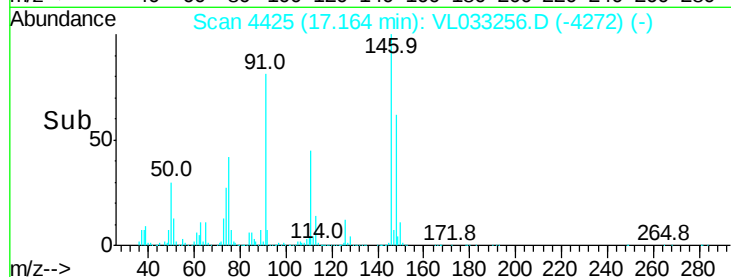
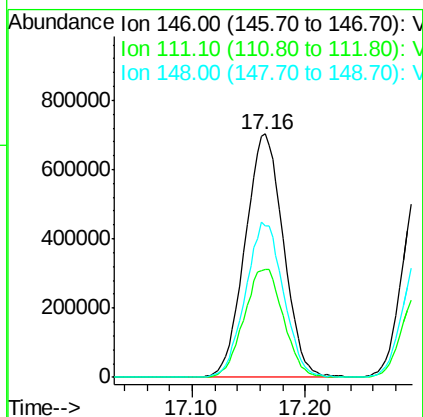
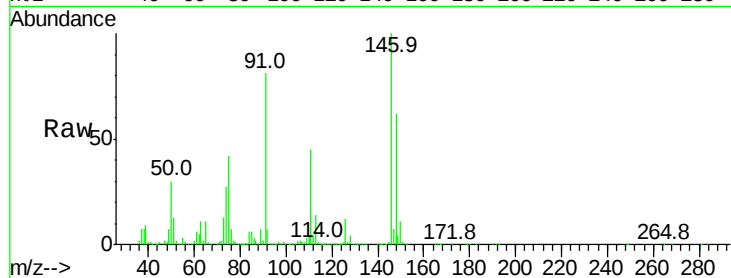
Tgt Ion:146 Resp: 1652958

Ion Ratio Lower Upper

146 100

111 45.8 23.4 70.0

148 63.1 32.1 96.3



#76

1,4-Dichlorobenzene

Concen: 7.807 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

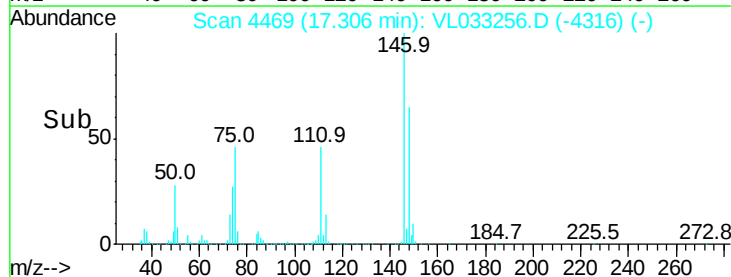
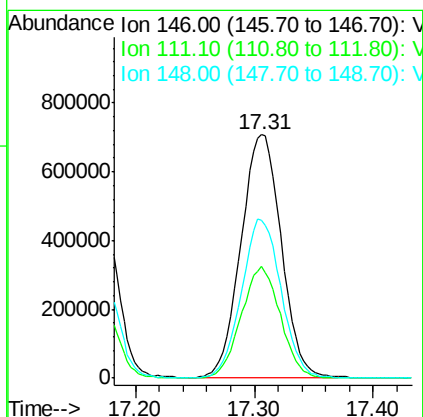
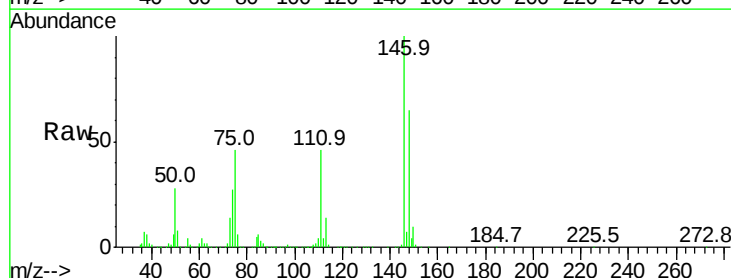
Tgt Ion:146 Resp: 1655874

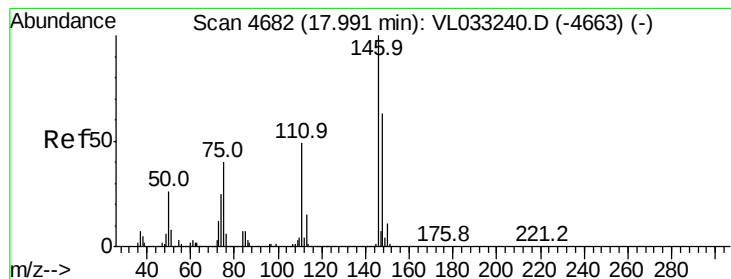
Ion Ratio Lower Upper

146 100

111 45.1 22.4 67.3

148 64.6 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 7.746 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

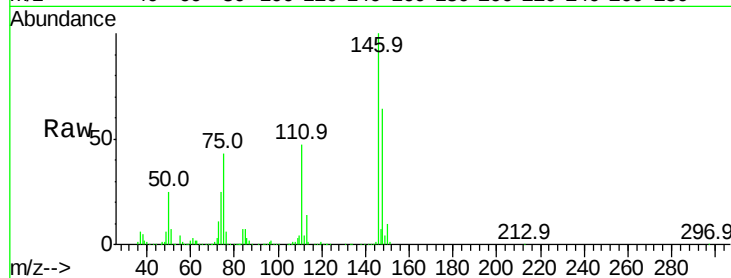
Tgt Ion:146 Resp: 1609184

Ion Ratio Lower Upper

146 100

111 47.5 23.6 71.0

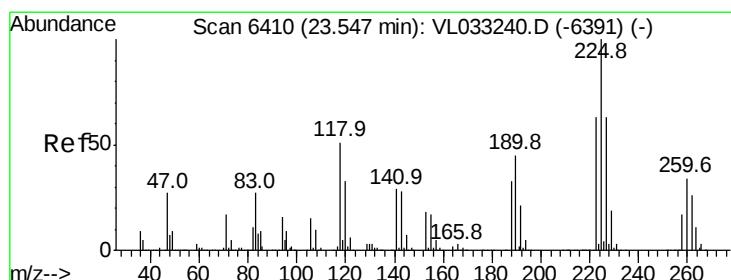
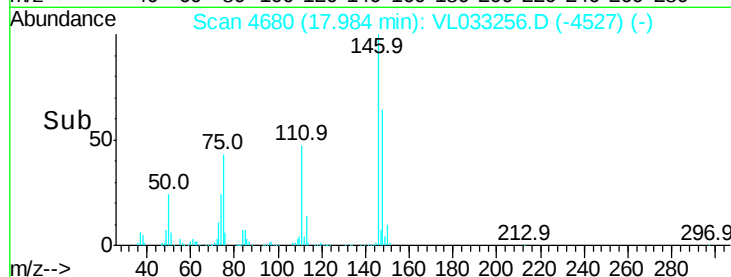
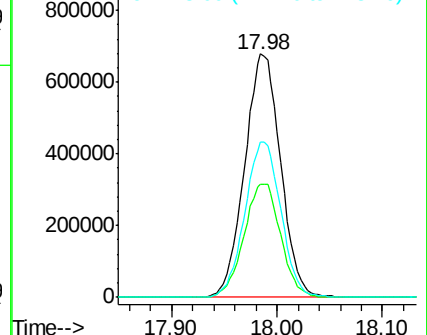
148 64.1 32.3 96.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.970 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

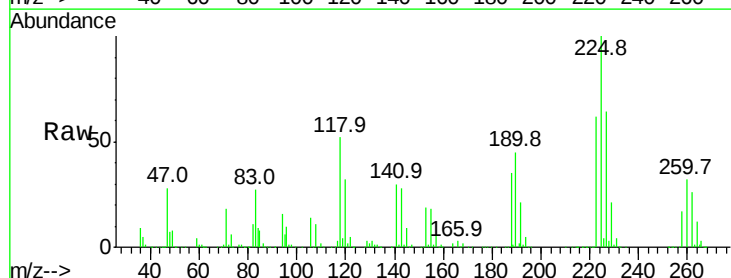
Tgt Ion:225 Resp: 1171855

Ion Ratio Lower Upper

225 100

223 63.0 50.9 76.3

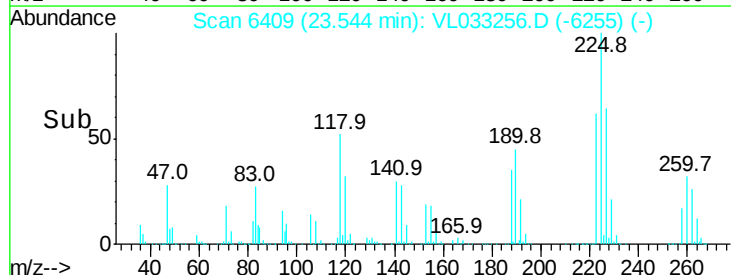
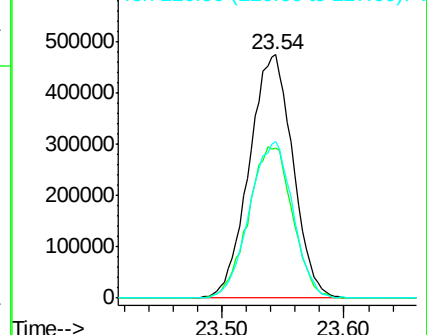
227 64.2 50.7 76.1

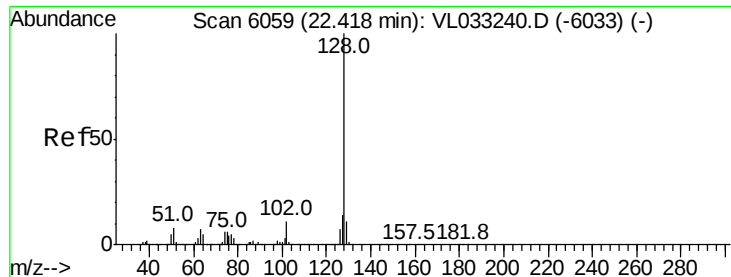


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.369 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. -0.01 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Instrument :

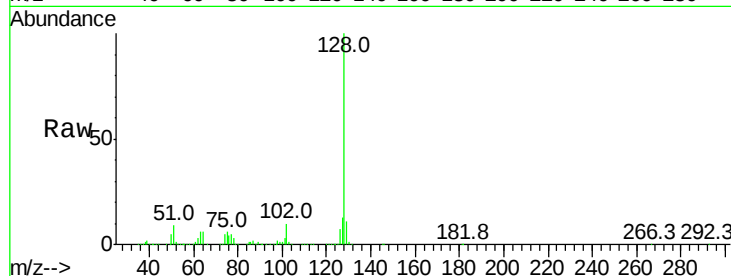
MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:128 Resp: 4191931

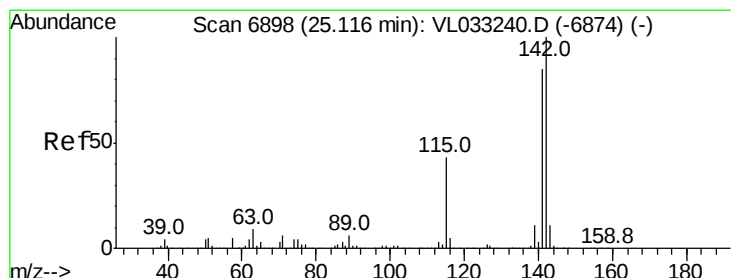
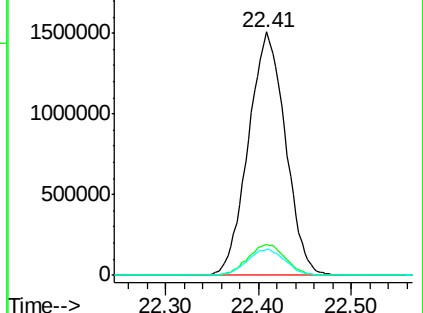
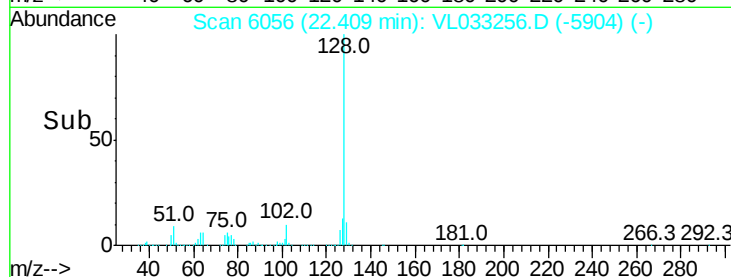
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.8	16.2
129	10.8	8.6	13.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 12.519 ppbv

RT: 25.11 min Scan# 6897

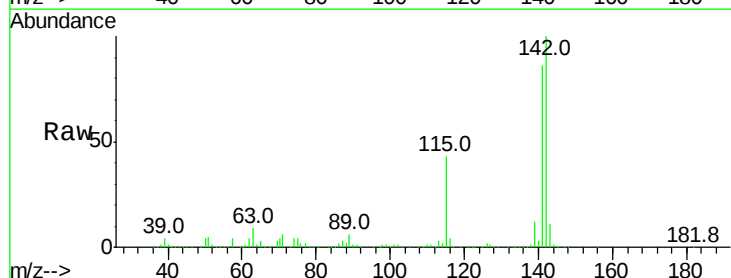
Delta R.T. -0.00 min

Lab File: VL033256.D

Acq: 8 Mar 2019 12:46

Tgt Ion:142 Resp: 1673452

Ion	Ratio	Lower	Upper
142	100		
141	84.5	68.0	102.0
115	42.4	34.1	51.1



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

