

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033333.D
 Acq On : 15 Mar 2019 15:20
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:29 AM

Quant Time: Mar 15 15:53:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	832306	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1990277	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2367926m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1664659	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1334316	9.116 ppbv	97
3) Chlorodifluoromethane	3.01	51	916475	9.593 ppbv	100
4) Chloromethane	3.17	50	493312	9.536 ppbv	97
5) Vinyl Chloride	3.29	62	491356	9.208 ppbv	99
6) Bromomethane	3.52	94	305528	9.632 ppbv	98
7) Chloroethane	3.60	64	179886	9.647 ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	1180999	9.478 ppbv	99
9) Propene	3.04	41	422947	9.918 ppbv	98
10) Heptane	8.25	43	1085916	10.266 ppbv	99
11) Trichlorofluoromethane	4.00	101	1366665	9.377 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	912608	9.438 ppbv	98
13) Ethanol	3.65	45	93125	4.581 ppbv	98
14) Bromoethene	3.79	108	402606	9.989 ppbv	100
15) Acetone	3.90	43	904277	6.989 ppbv	99
16) 1,3-Butadiene	3.36	39	411472	9.792 ppbv	97
17) tert-Butyl alcohol	4.36	59	166018	9.118 ppbv	100
18) 1,1-Dichloroethene	4.35	96	411373	9.304 ppbv	96
19) Isopropyl Alcohol	4.02	45	570740	9.274 ppbv	99
20) Methylene Chloride	4.41	84	344883	8.173 ppbv	99
21) Allyl Chloride	4.48	41	649976	10.356 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	408822	9.541 ppbv	95
23) Vinyl Acetate	5.16	43	1524114	10.181 ppbv	99
24) 1,1-Dichloroethane	5.09	63	1043763	9.654 ppbv	98
25) Ethyl Acetate	5.77	43	1809857	9.623 ppbv	100
26) Hexane	5.78	57	808993	9.622 ppbv	99
27) Carbon Disulfide	4.62	76	1030922	10.651 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1264281	10.123 ppbv	100
29) Chloroform	5.85	83	1360955	9.885 ppbv	99
30) Cyclohexane	7.25	84	714648	10.601 ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	864650	10.285 ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1329011	9.832 ppbv	99
34) 2-Butanone	5.33	43	1175035	8.990 ppbv	99
35) Carbon Tetrachloride	7.14	117	1421957	10.134 ppbv	98
36) Benzene	7.01	78	1719672	9.655 ppbv	99
37) 1,2-Dichloroethane	6.42	62	1041581	9.248 ppbv	100
38) Trichloroethene	7.97	130	641189	9.513 ppbv	97
39) 1,2-Dichloropropane	7.74	63	648041	9.715 ppbv	99
40) 1,4-Dioxane	7.95	88	224166	9.543 ppbv	95
41) Tetrahydrofuran	6.15	42	703045	10.079 ppbv	100
42) Bromodichloromethane	7.92	83	1475182	9.769 ppbv	99
43) Methyl Methacrylate	8.14	69	698368	10.070 ppbv	98

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Quant Time: Mar 15 15:53:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2830866	9.596	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	965313	11.274	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1085212	10.763	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	709315	9.624	ppbv	94
48) Dibromochloromethane	10.46	129	1443808	11.681	ppbv	100
49) Bromoform	13.21	173	1278515	10.904	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	1751073	9.484	ppbv	100
51) 2-Hexanone	10.28	43	1600156	11.234	ppbv #	100
52) Tetrachloroethene	11.38	164	732678	9.874	ppbv	98
53) Toluene	9.95	91	2301082	11.369	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1307861	10.497	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1000588	9.446	ppbv #	94
57) Chlorobenzene	12.31	112	1714307	9.141	ppbv	99
58) Ethyl Benzene	12.87	91	3241308	9.676	ppbv	99
59) m/p-Xylene	13.16	91	5389421m	18.721	ppbv	
60) o-Xylene	13.86	91	2607530	9.285	ppbv	100
61) Styrene	13.69	104	1964659	9.991	ppbv	99
62) Isopropylbenzene	14.83	105	3619042	9.269	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1799948	8.866	ppbv	100
64) n-propylbenzene	15.73	120	909255	9.203	ppbv	100
65) tert-Butylbenzene	16.92	119	3205514	9.119	ppbv	99
66) Benzyl Chloride	17.16	91	1772079	12.199	ppbv	99
67) sec-Butylbenzene	17.47	105	4582296	9.200	ppbv	100
69) p-Isopropyltoluene	17.82	119	3786256	9.304	ppbv	99
70) n-Butylbenzene	18.72	91	4029153	9.285	ppbv	100
71) 2-Chlorotoluene	15.62	91	2803800	9.225	ppbv	100
72) 4-Ethyltoluene	16.01	105	2977979	9.337	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	2834852	9.124	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	2960562	8.997	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	1709770	8.816	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1713728	9.127	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1666210	9.071	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1249262	11.344	ppbv	99
79) Naphthalene	22.42	128	2919240	9.206	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1665507	11.077	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1461822	9.041	ppbv	100

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

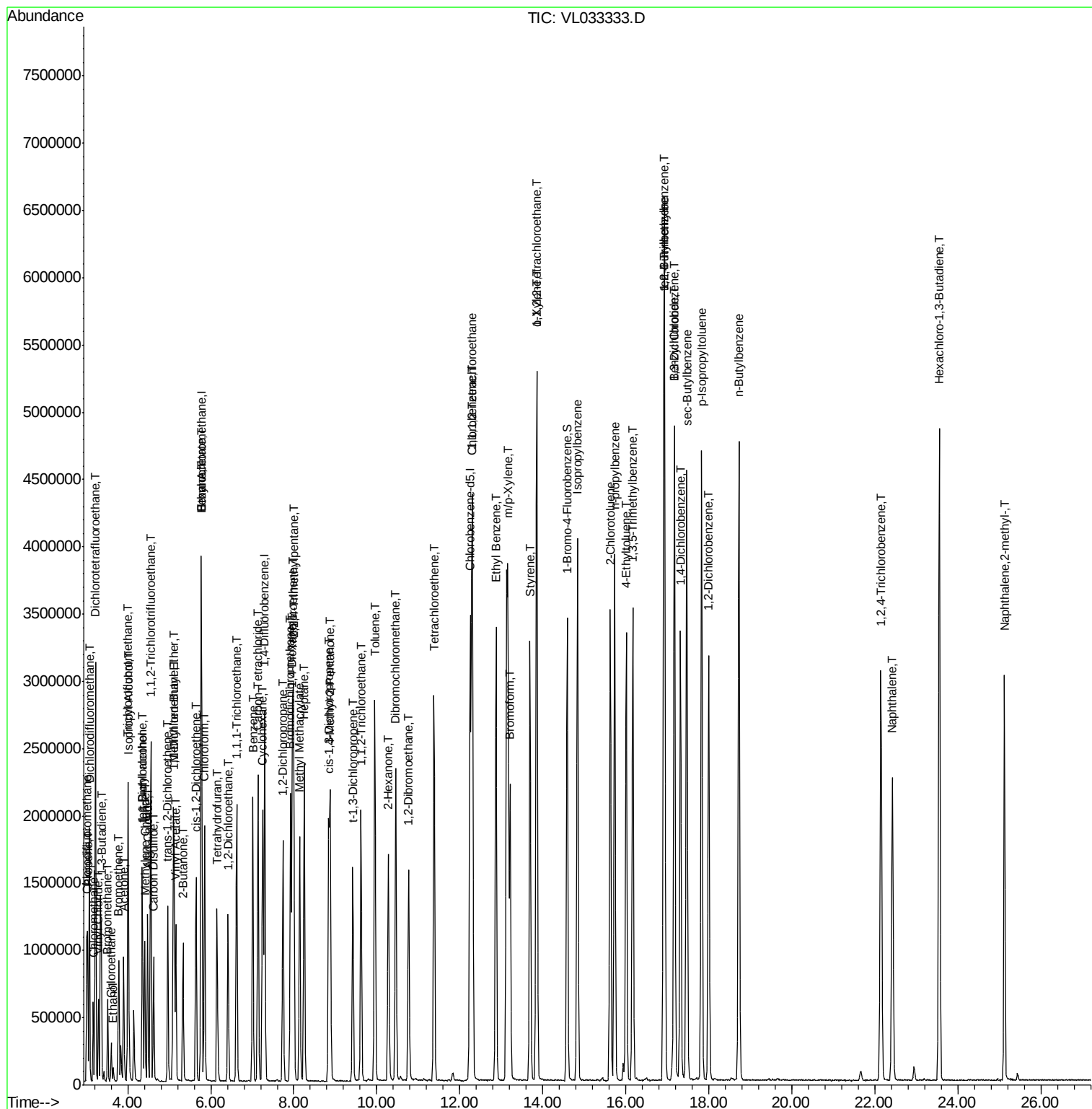
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031519\
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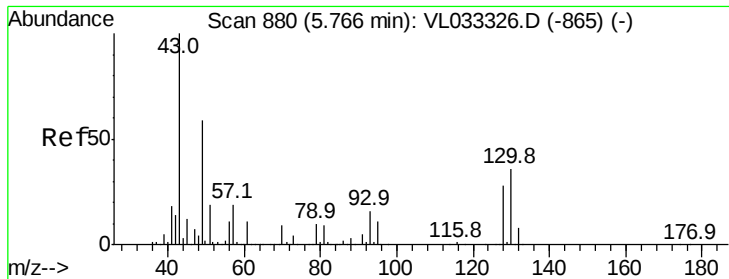
Instrument :
MSVOA_L
ClientSampleId :
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QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

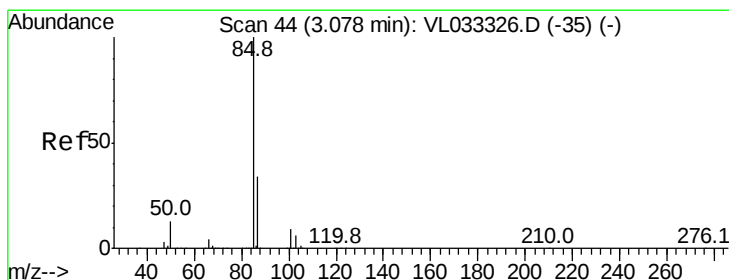
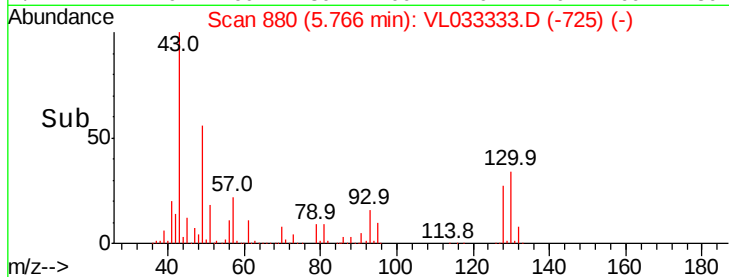
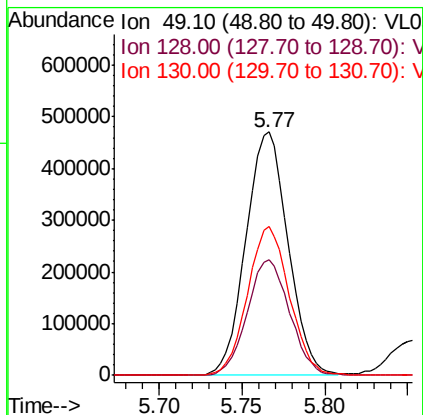
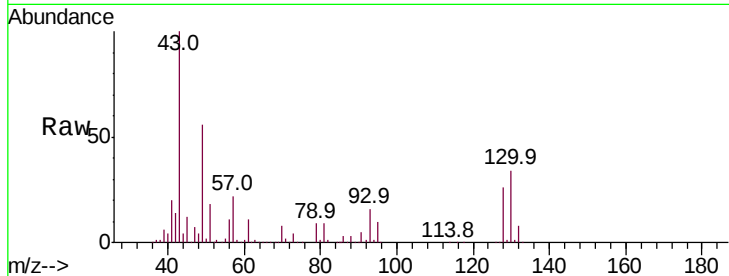
ClientSampleId :

ICVVL031519

Tot Ion: 49 Resp: 832306
 Ion Ratio Lower Upper
 49 100
 128 47.7 23.5 70.6
 130 60.7 30.1 90.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 9.116 ppbv

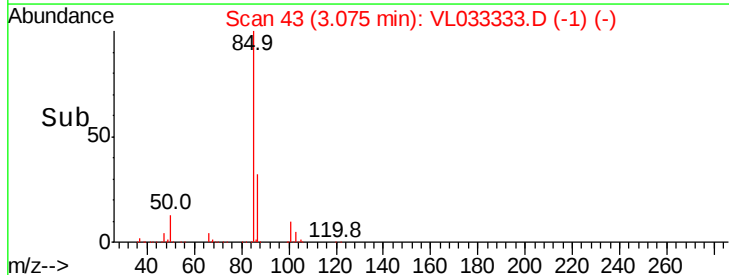
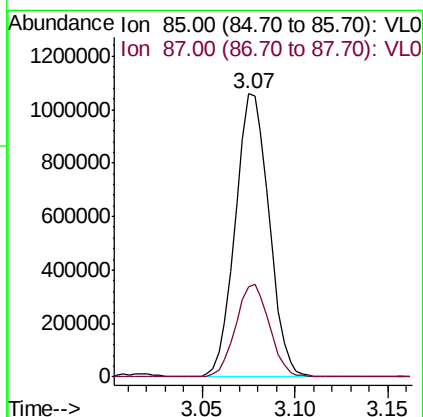
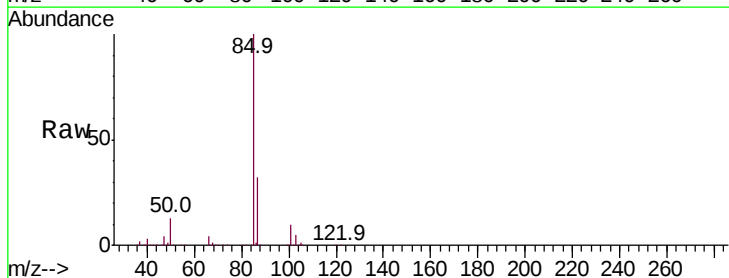
RT: 3.07 min Scan# 43

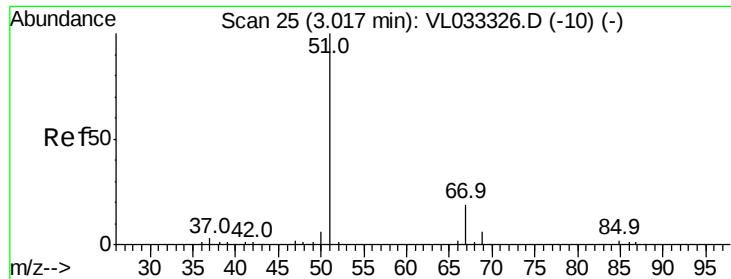
Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Tgt Ion: 85 Resp: 1334316
 Ion Ratio Lower Upper
 85 100
 87 32.0 26.9 40.3





#3

Chlorodifluoromethane

Concen: 9.593 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 51 Resp: 916475

Ion Ratio Lower Upper

51 100

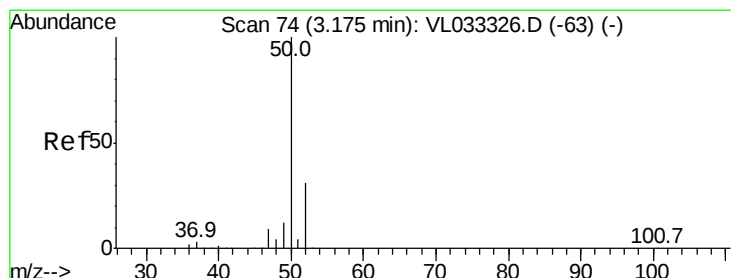
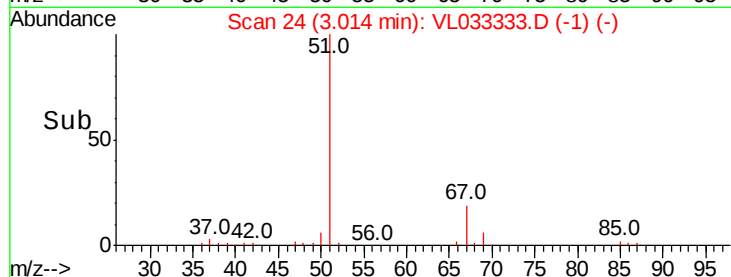
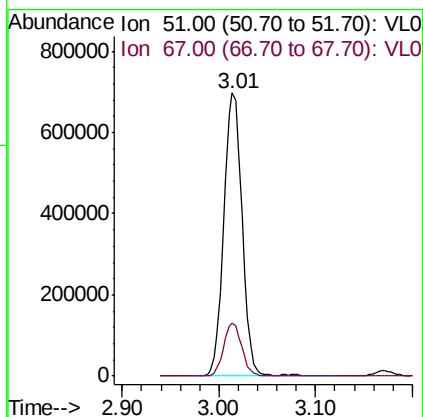
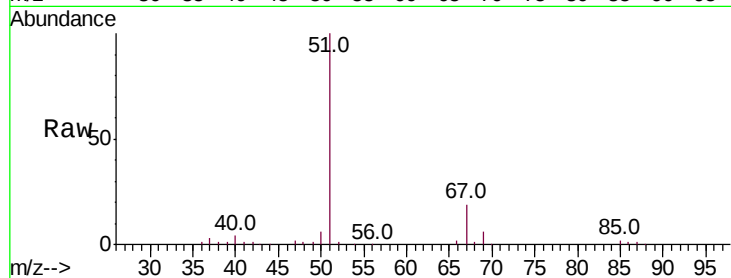
67 18.6 14.9 22.3

Manual Integrations

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#4

Chloromethane

Concen: 9.536 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033333.D

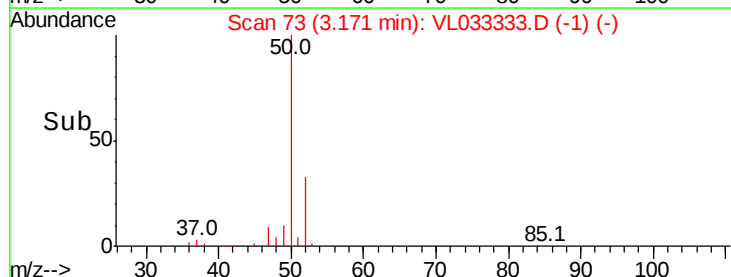
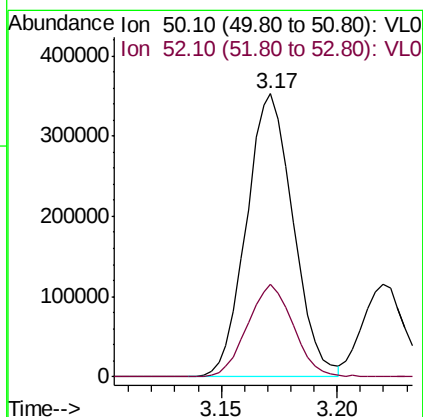
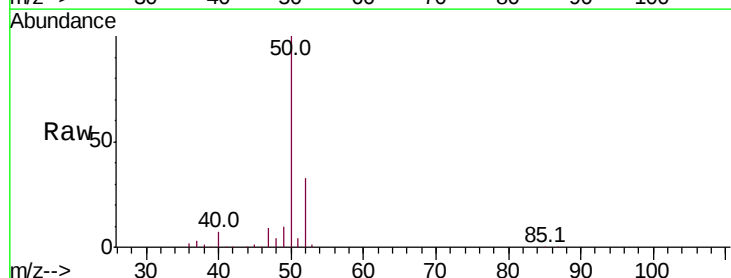
Acq: 15 Mar 2019 15:20

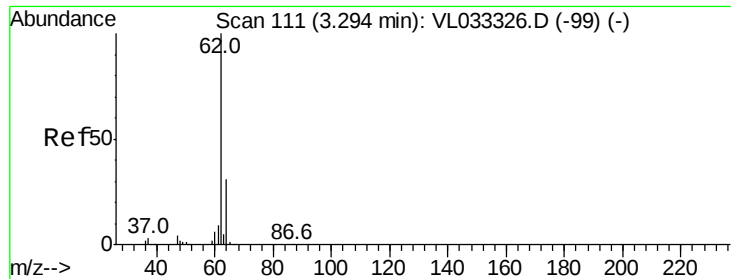
Tgt Ion: 50 Resp: 493312

Ion Ratio Lower Upper

50 100

52 33.0 25.0 37.6





#5

Vinyl Chloride

Concen: 9.208 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 62 Resp: 491356

Ion Ratio Lower Upper

62 100

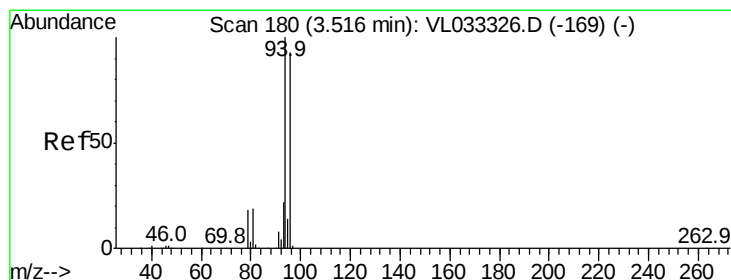
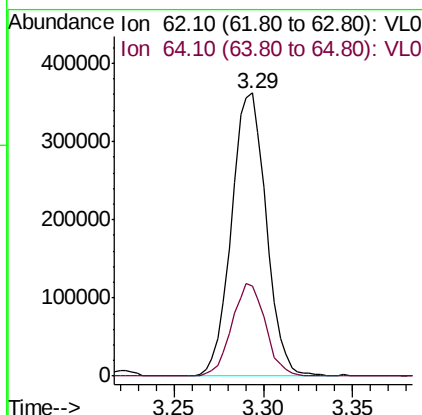
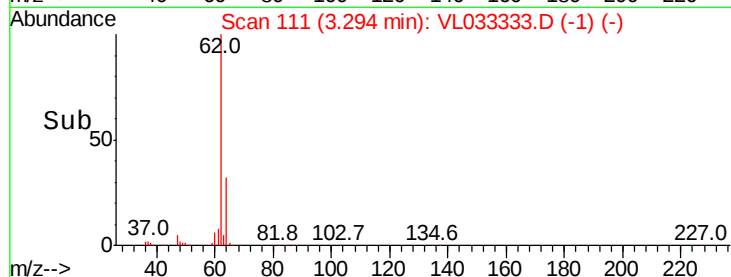
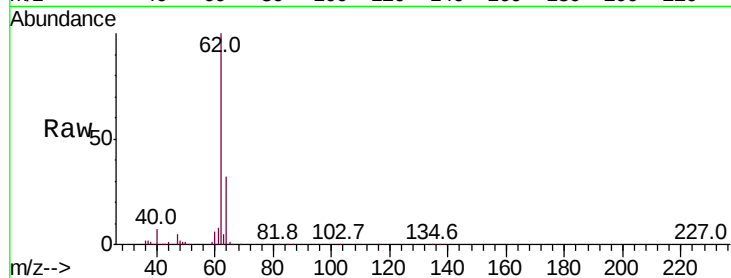
64 32.0 25.0 37.6

Manual Integrations

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#6

Bromomethane

Concen: 9.632 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033333.D

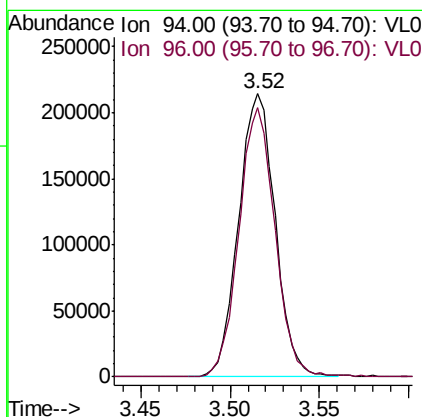
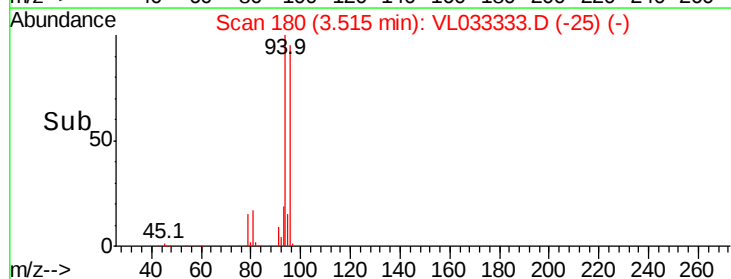
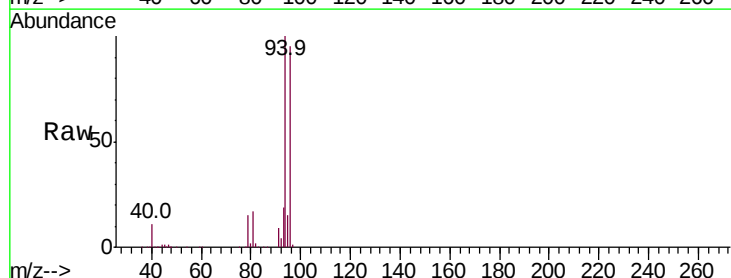
Acq: 15 Mar 2019 15:20

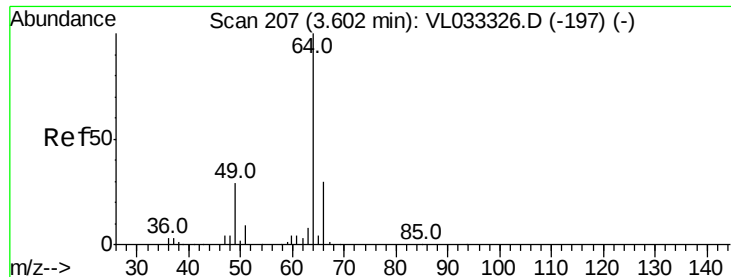
Tgt Ion: 94 Resp: 305528

Ion Ratio Lower Upper

94 100

96 95.0 74.6 111.8





#7

Chloroethane

Concen: 9.647 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 64 Resp: 179886

Ion Ratio Lower Upper

64 100

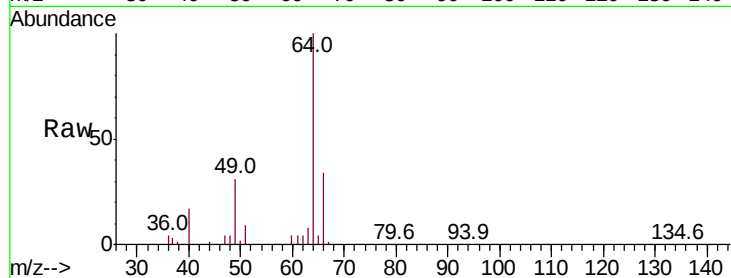
66 34.4 24.0 36.0

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

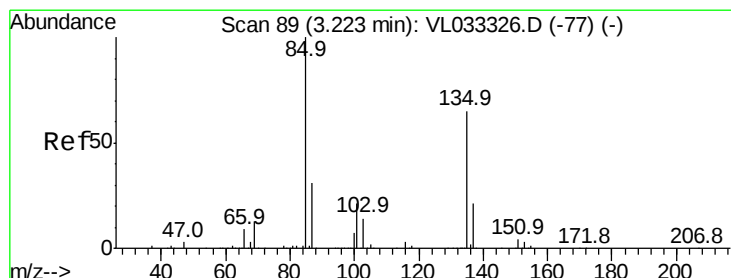
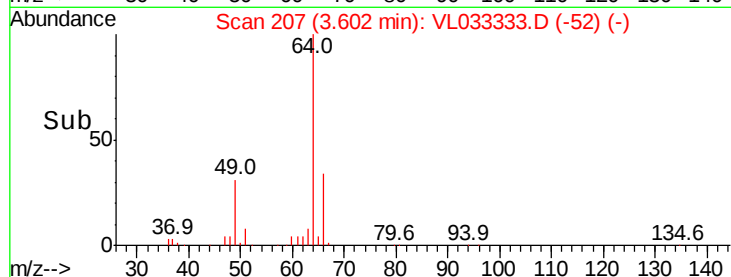
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.478 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033333.D

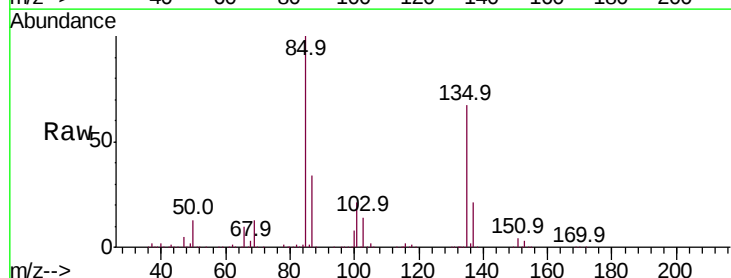
Acq: 15 Mar 2019 15:20

Tgt Ion: 85 Resp: 1180999

Ion Ratio Lower Upper

85 100

135 68.0 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

1000000

800000

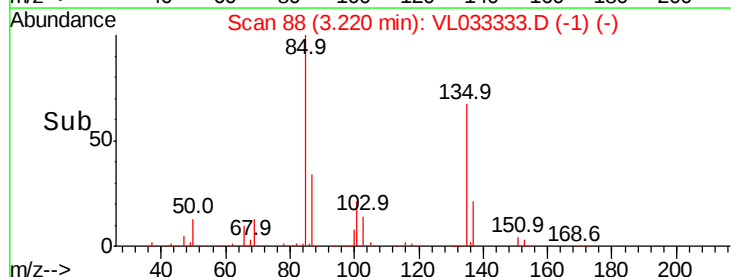
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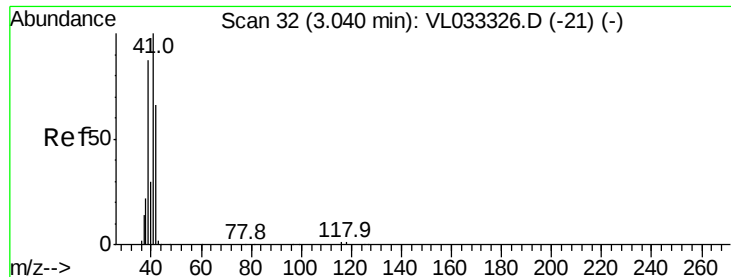
400000

200000

0

Time-->





#9

Propene

Concen: 9.918 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 41 Resp: 422947

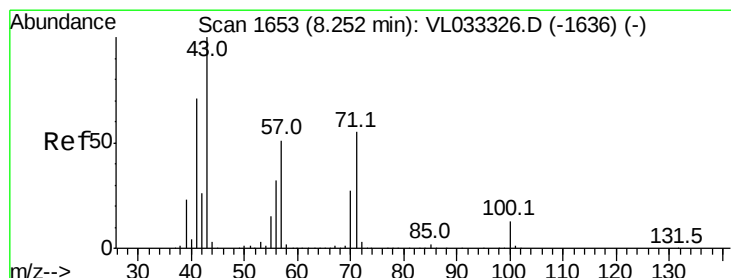
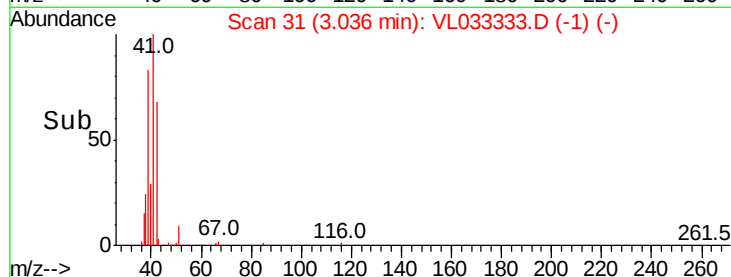
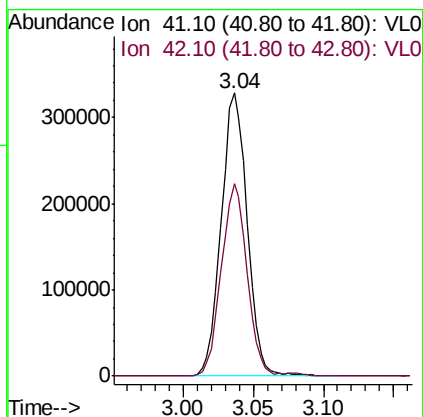
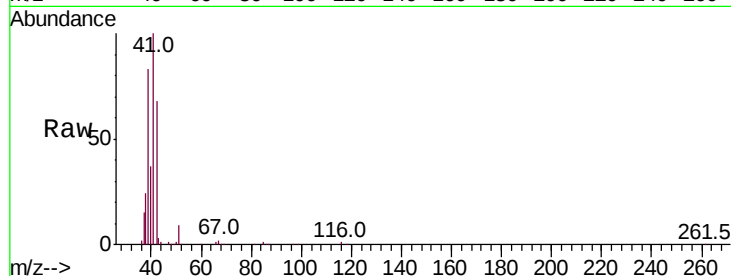
Ion Ratio Lower Upper

41 100

42 67.7 55.2 82.8

Manual Integrations
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#10

Heptane

Concen: 10.266 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL033333.D

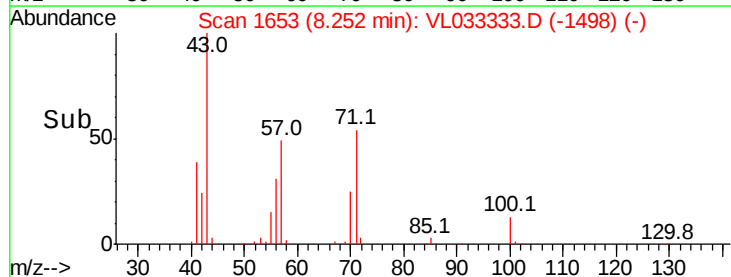
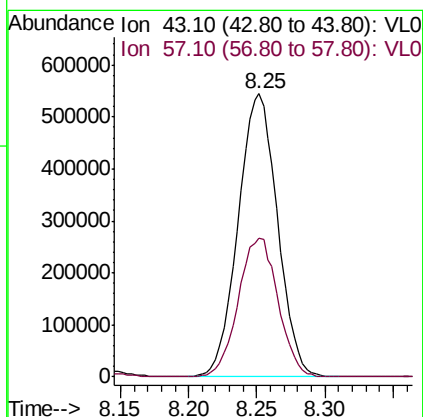
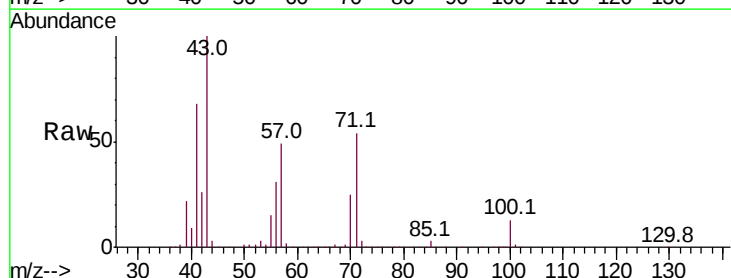
Acq: 15 Mar 2019 15:20

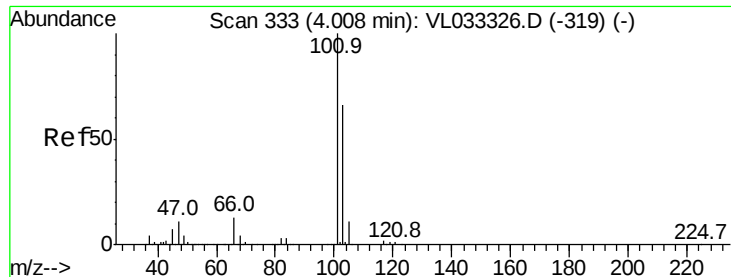
Tgt Ion: 43 Resp: 1085916

Ion Ratio Lower Upper

43 100

57 49.8 40.4 60.6





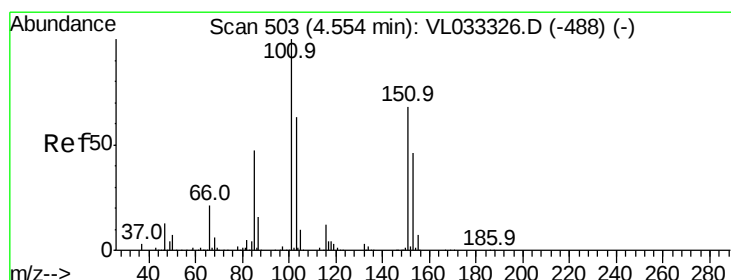
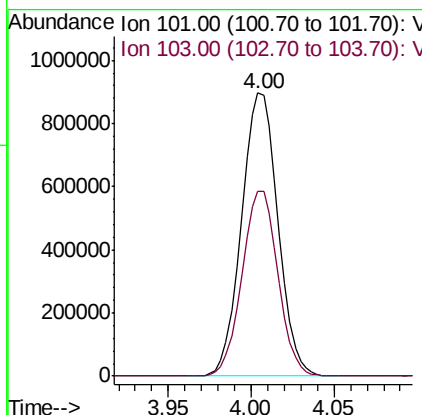
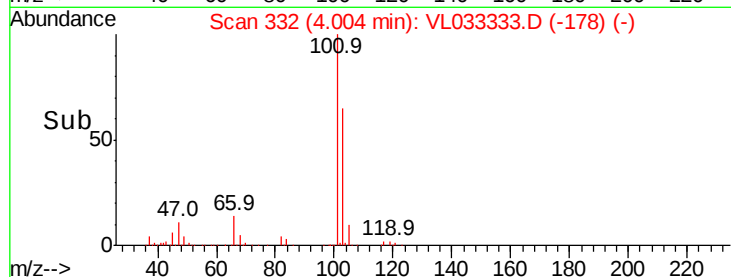
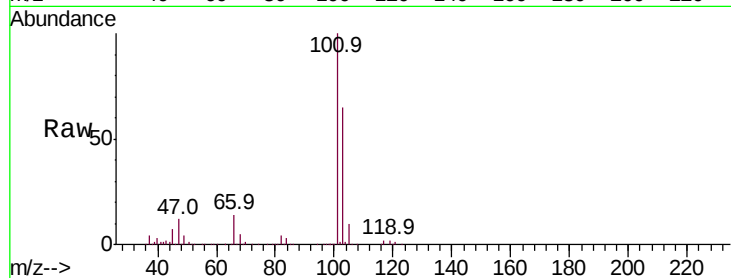
#11
 Trichlorofluoromethane
 Concen: 9.377 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

Tot Ion:101 Resp: 1366665
 Ion Ratio Lower Upper
 101 100
 103 65.2 52.9 79.3

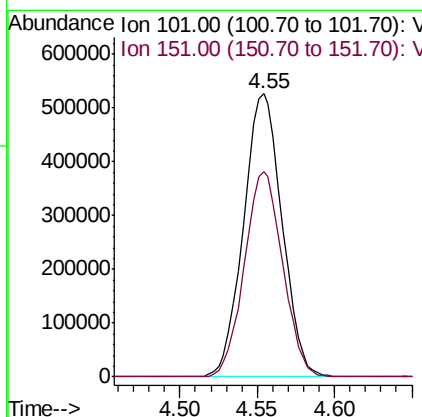
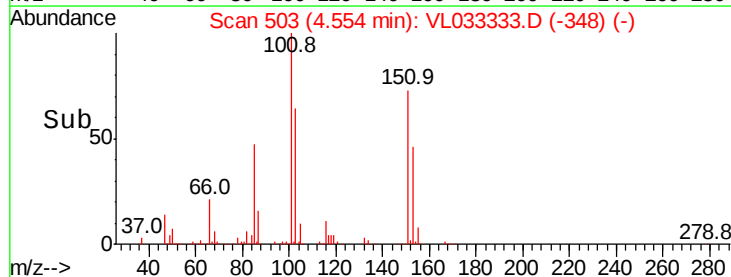
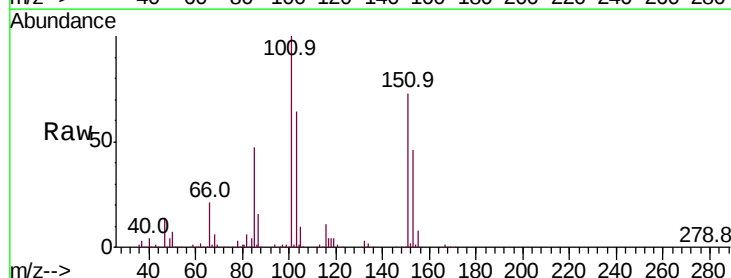
Manual Integrations
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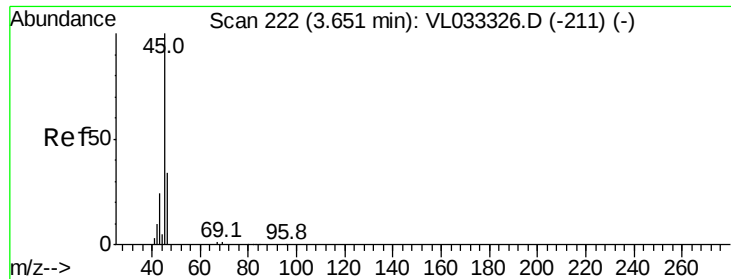
MMDadoda
 3/19/2019 10:02:29 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.438 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Tgt Ion:101 Resp: 912608
 Ion Ratio Lower Upper
 101 100
 151 72.0 56.3 84.5





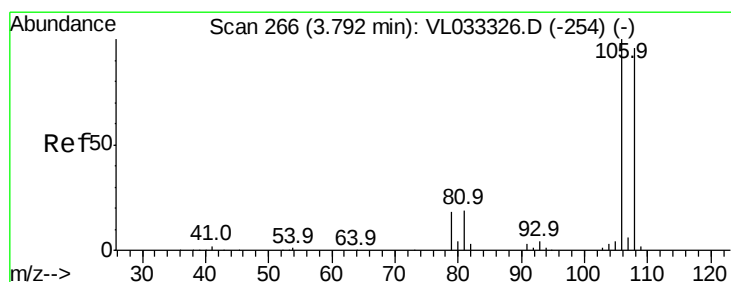
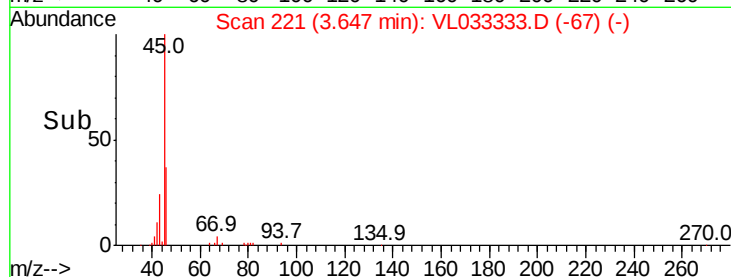
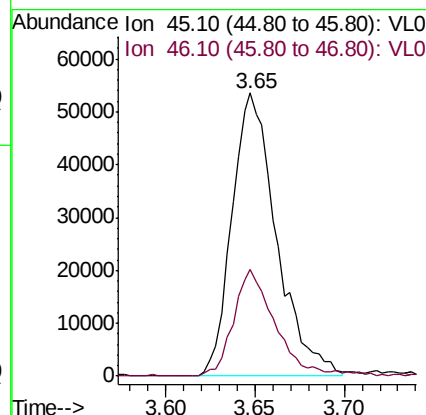
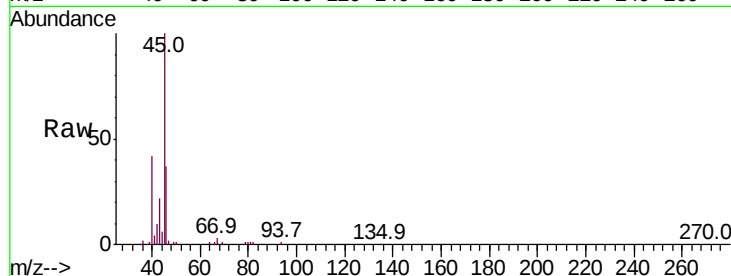
#13
Ethanol
Concen: 4.581 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion: 45 Resp: 93125
Ion Ratio Lower Upper
45 100
46 35.8 14.9 59.7

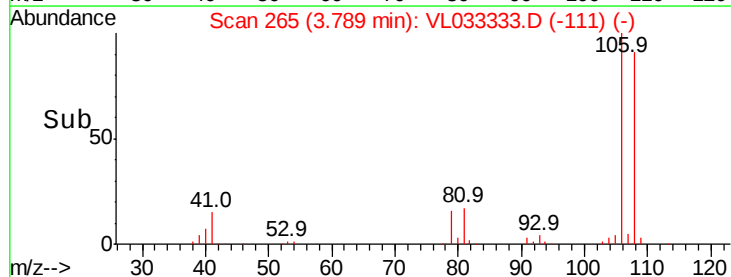
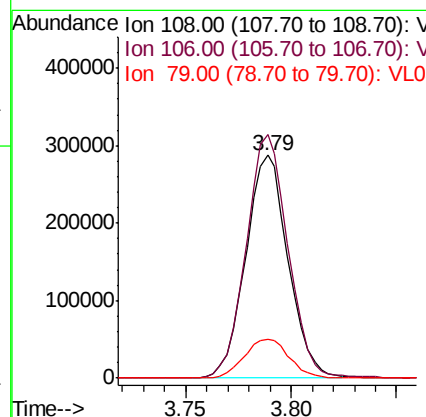
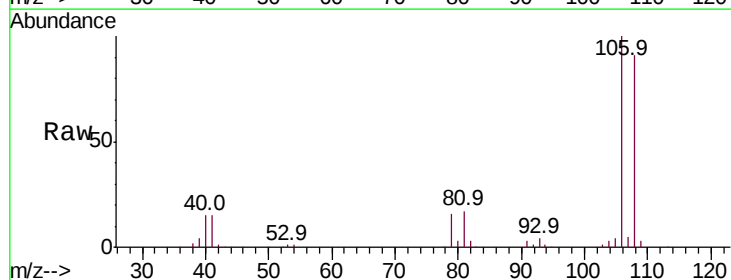
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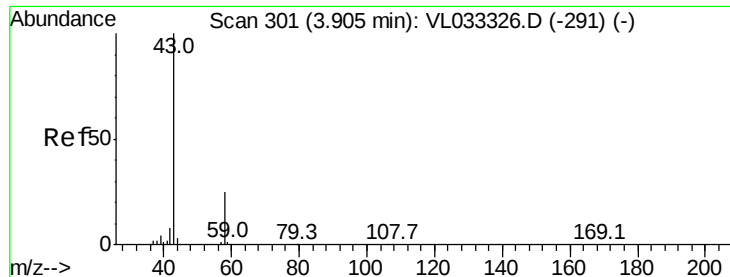
MMDadoda
3/19/2019 10:02:29 AM



#14
Bromoethene
Concen: 9.989 ppbv
RT: 3.79 min Scan# 265
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion: 108 Resp: 402606
Ion Ratio Lower Upper
108 100
106 107.9 86.2 129.2
79 18.7 15.4 23.2





#15

Acetone

Concen: 6.989 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 43 Resp: 904277

Ion Ratio Lower Upper

43 100

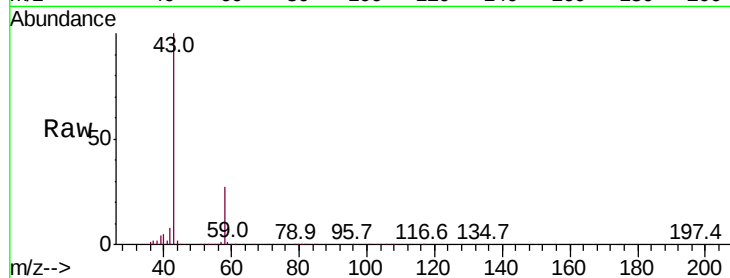
58 26.0 20.4 30.6

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

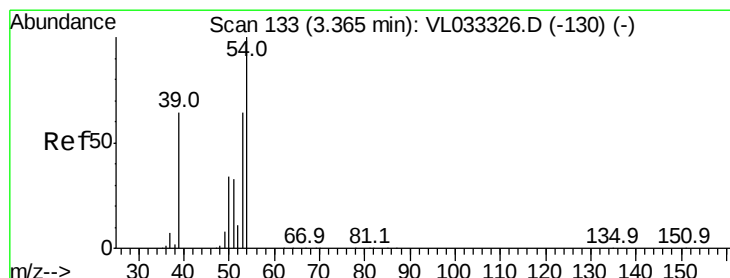
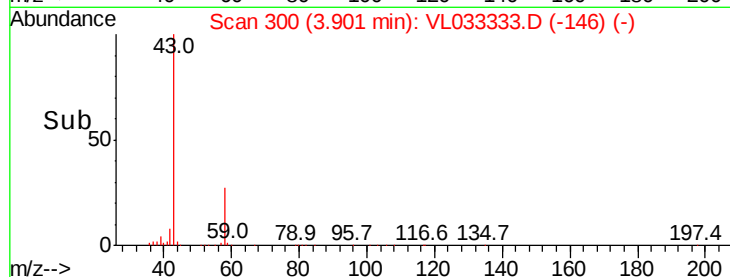
400000

200000

0

3.85 3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 9.792 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL033333.D

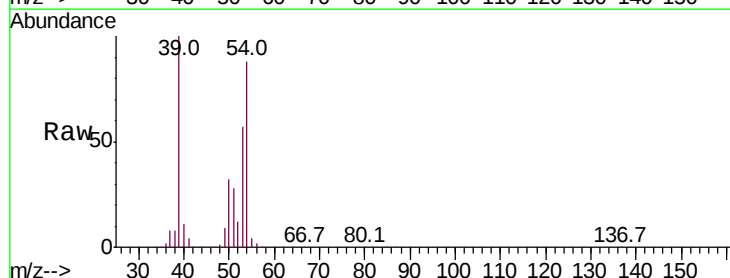
Acq: 15 Mar 2019 15:20

Tgt Ion: 39 Resp: 411472

Ion Ratio Lower Upper

39 100

54 93.1 76.8 115.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

300000

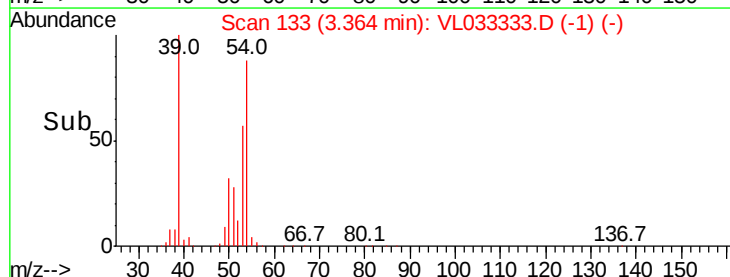
200000

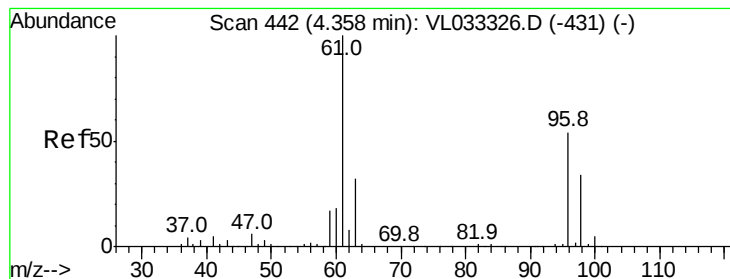
100000

0

3.34 3.36 3.38 3.40 3.42

Time-->





#17

tert-Butyl alcohol

Concen: 9.118 ppbv

RT: 4.36 min Scan# 442

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampled :

ICVVL031519

Tot Ion: 59 Resp: 166018

Ion Ratio Lower Upper

59 100

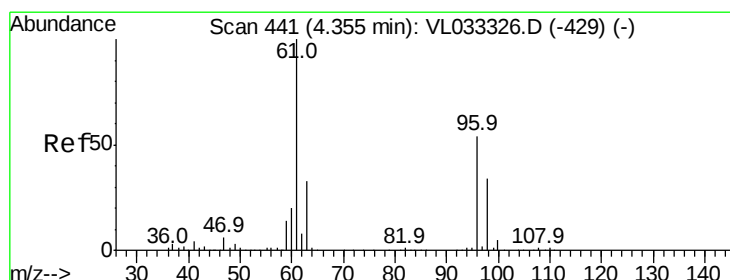
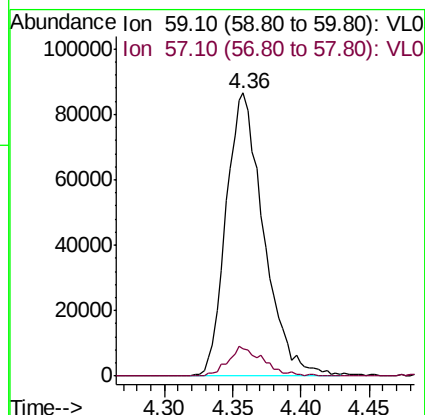
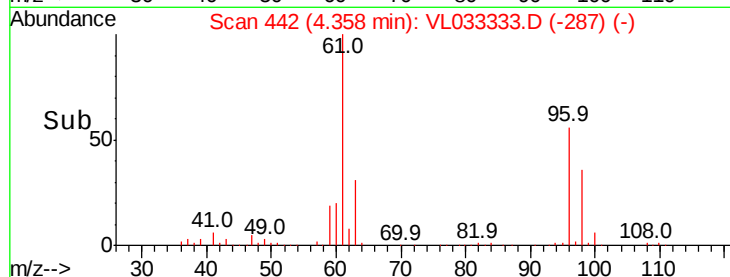
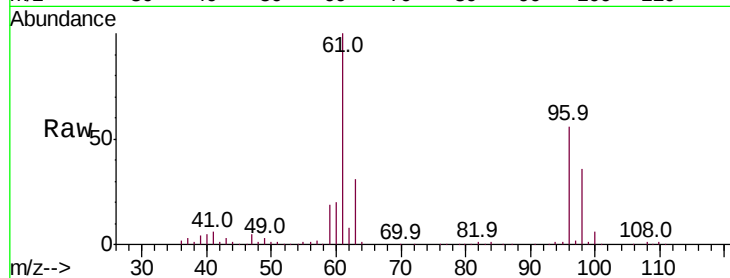
57 9.8 7.7 11.5

Manual Integrations

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#18

1,1-Dichloroethene

Concen: 9.304 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

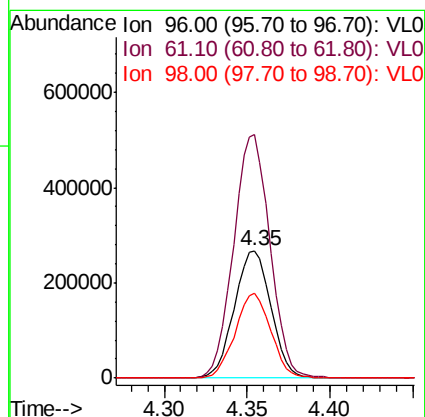
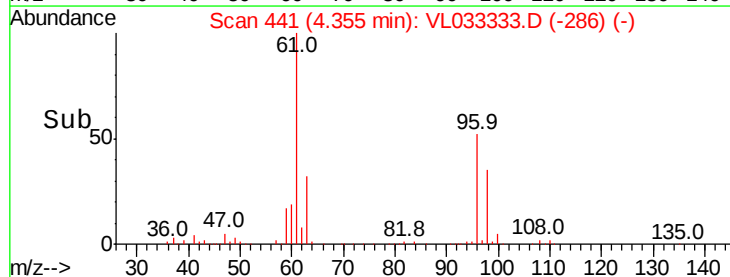
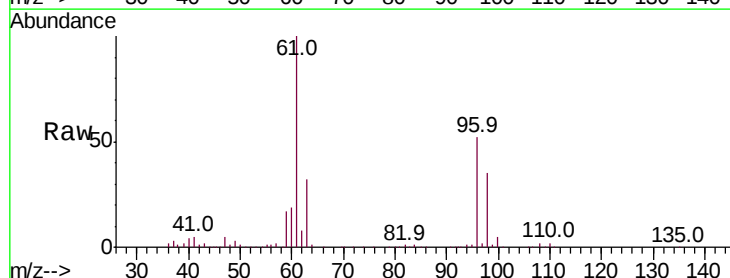
Tgt Ion: 96 Resp: 411373

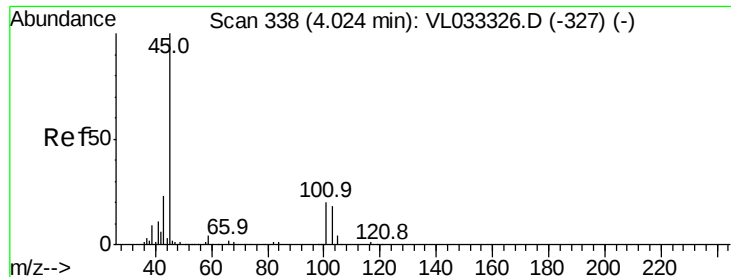
Ion Ratio Lower Upper

96 100

61 190.9 148.6 222.8

98 66.6 50.3 75.5





#19

Isopropyl Alcohol

Concen: 9.274 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 45 Resp: 570740

Ion Ratio Lower Upper

45 100

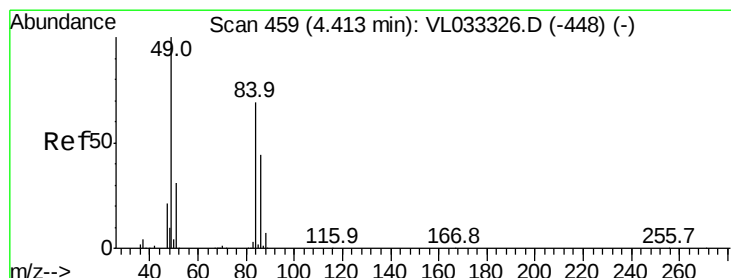
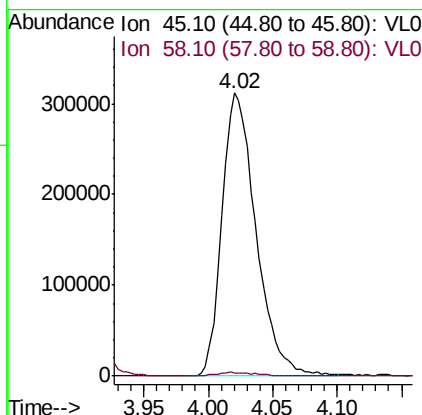
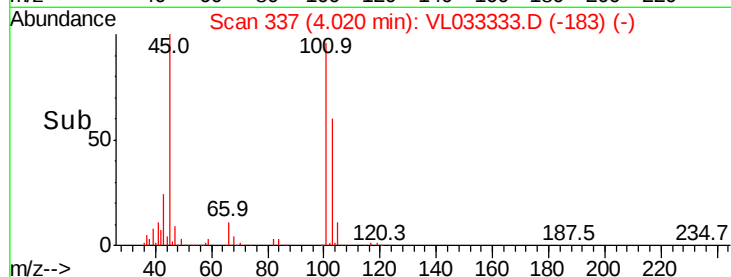
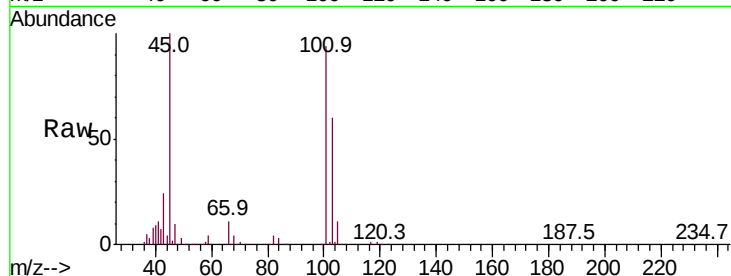
58 1.6 1.5 2.3

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#20

Methylene Chloride

Concen: 8.173 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Tgt Ion: 84 Resp: 344883

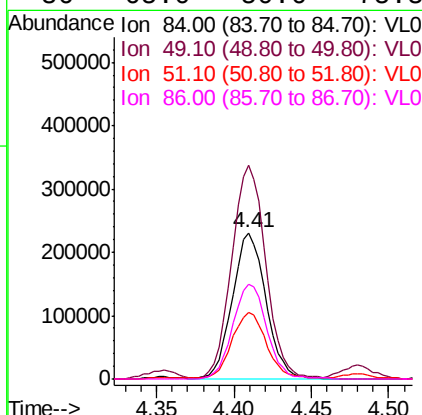
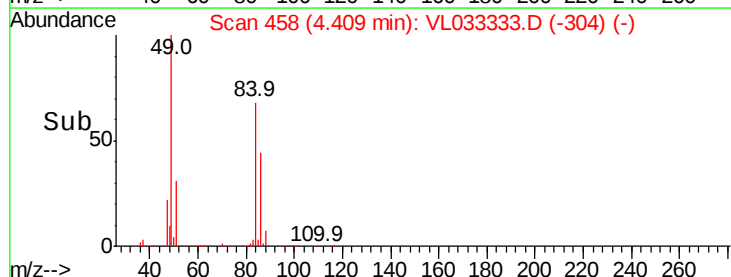
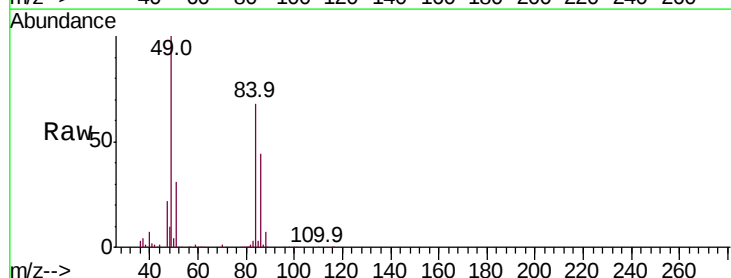
Ion Ratio Lower Upper

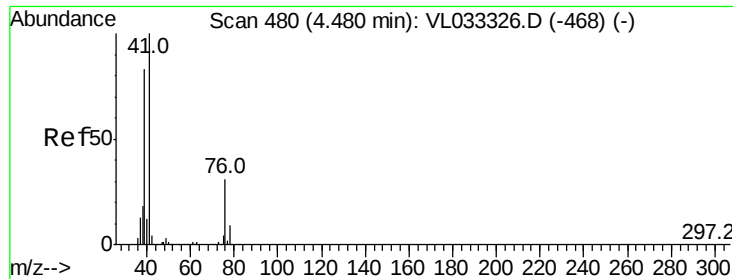
84 100

49 144.7 115.4 173.0

51 44.8 35.8 53.6

86 65.0 50.6 75.8





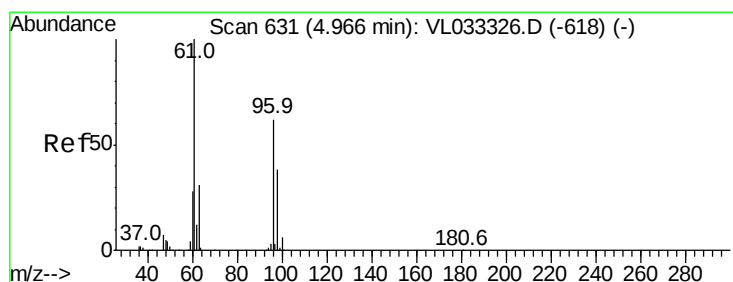
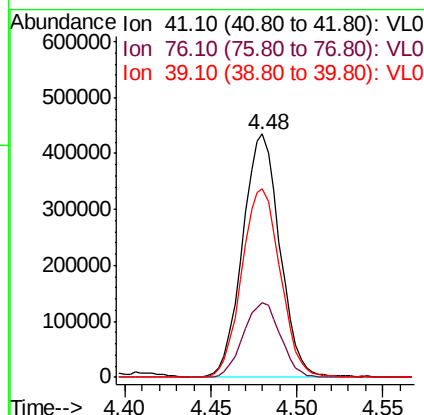
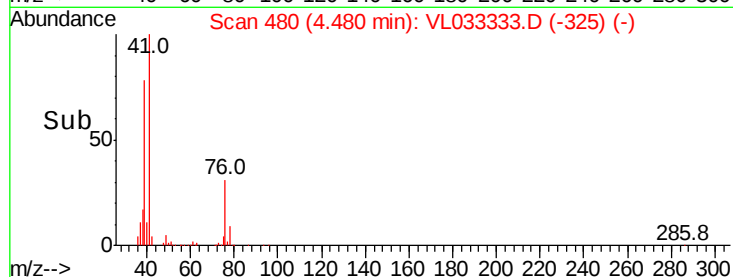
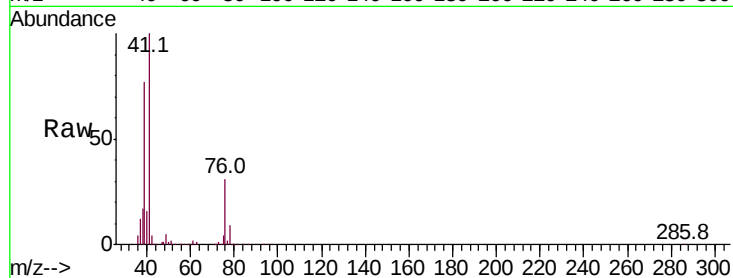
#21
Allvl Chloride
Concen: 10.356 ppbv
RT: 4.48 min Scan# 480
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
76	31.0	25.0	37.4	
39	80.7	65.9	98.9	

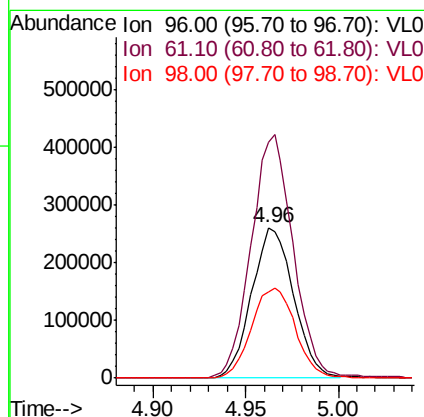
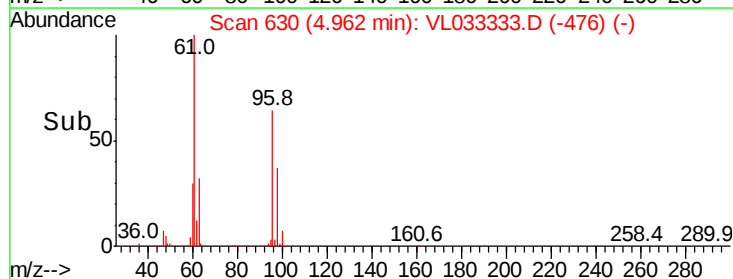
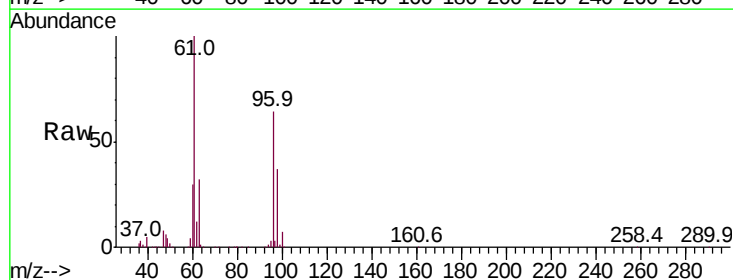
Manual Integrations
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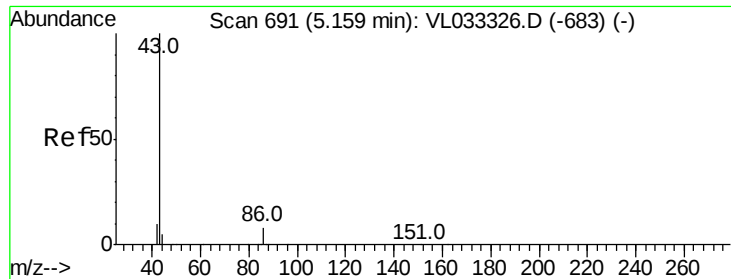
MMDadoda
3/19/2019 10:02:29 AM



#22
trans-1,2-Dichloroethene
Concen: 9.541 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	156.9	130.0	195.0	
98	57.6	50.0	75.0	





#23

Vinyl Acetate

Concen: 10.181 ppbv

RT: 5.16 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 43 Resp: 1524114

Ion Ratio Lower Upper

43 100

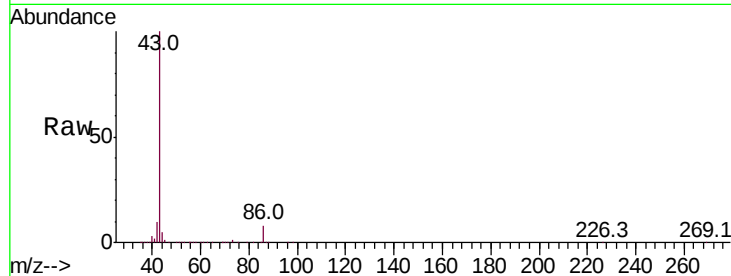
86 7.8 6.2 9.2

42 9.5 8.1 12.1

44 4.9 4.1 6.1

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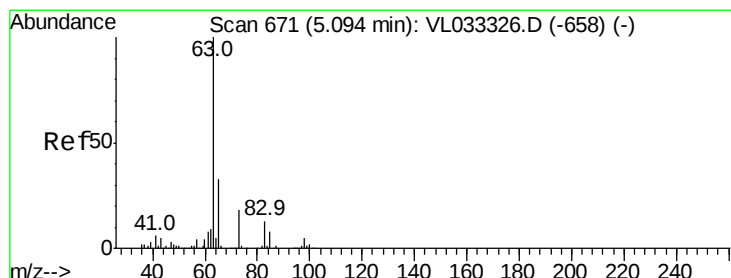
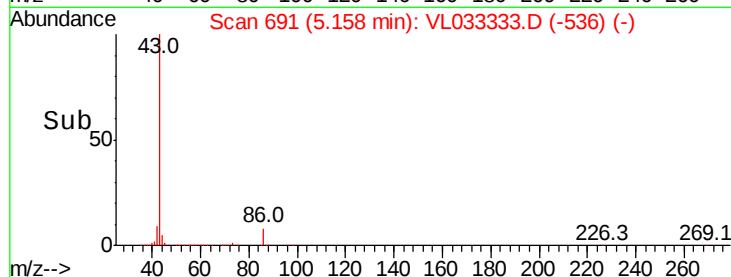
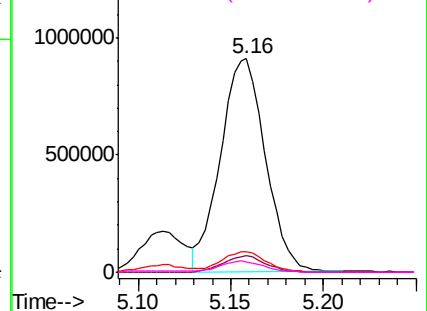


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.654 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

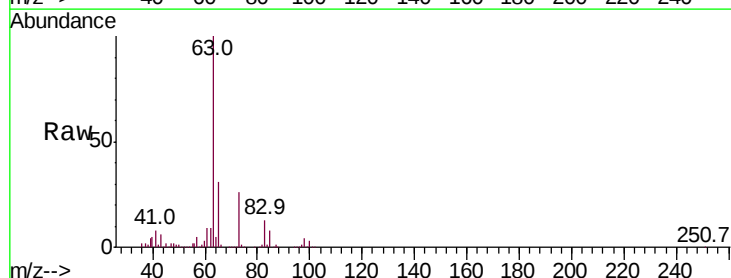
Tgt Ion: 63 Resp: 1043763

Ion Ratio Lower Upper

63 100

98 4.0 2.4 7.1

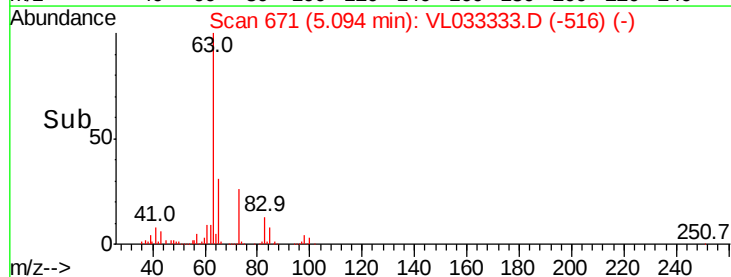
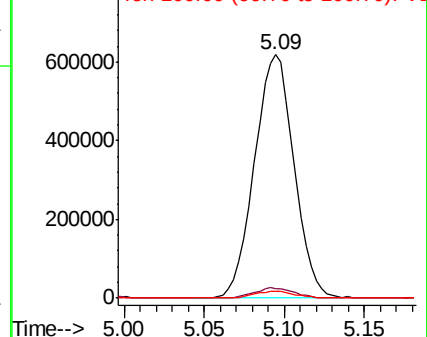
100 2.8 1.3 3.8

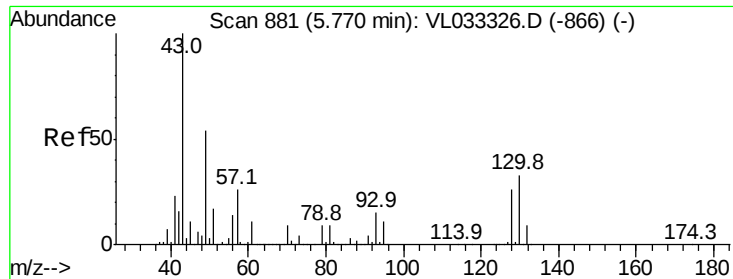


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.623 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 43 Resp: 1809857

Ion Ratio Lower Upper

43 100

45 9.8 7.9 11.9

61 9.3 7.4 11.2

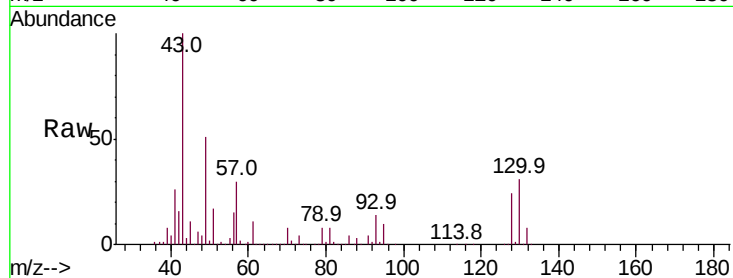
70 7.2 5.7 8.5

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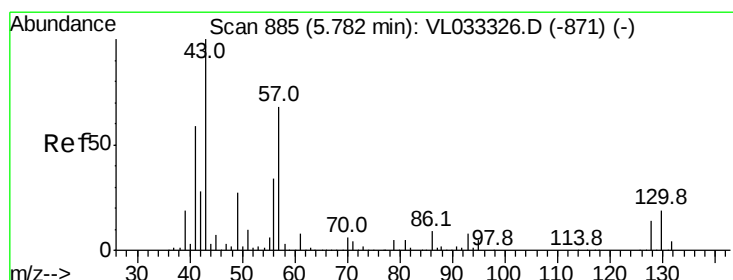
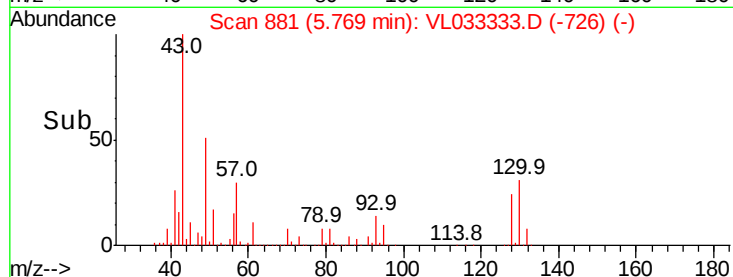
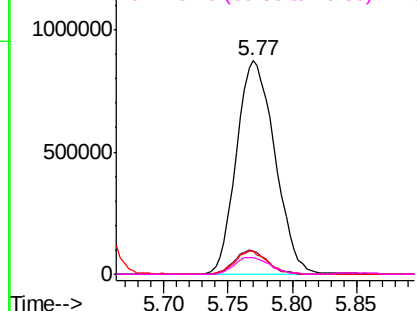


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.622 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Tgt Ion: 57 Resp: 808993

Ion Ratio Lower Upper

57 100

41 87.1 70.5 105.7

43 224.9 181.8 272.8

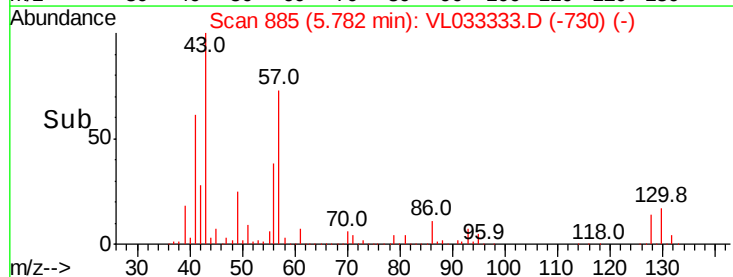
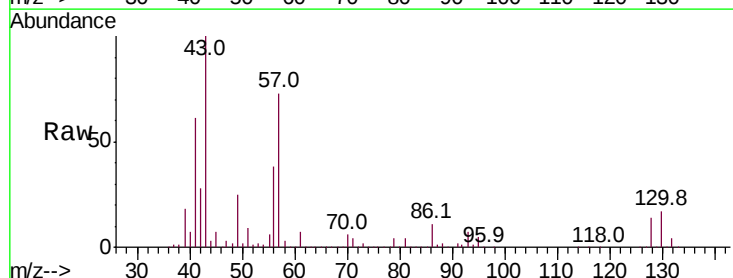
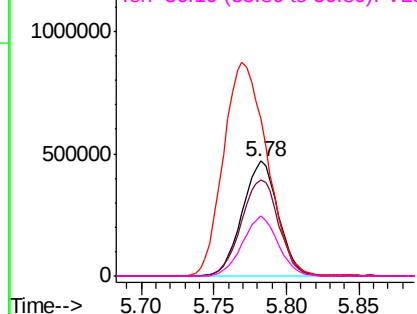
56 51.7 42.2 63.2

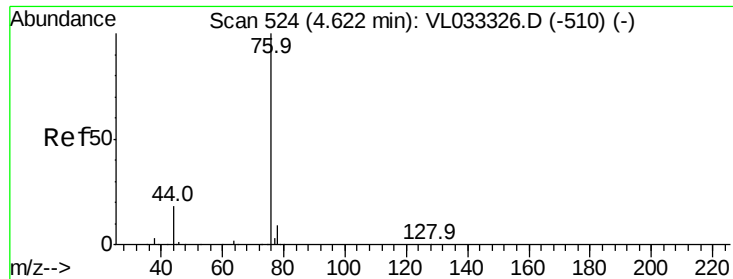
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.651 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 76 Resp: 1030922

Ion Ratio Lower Upper

76 100

44 18.3 15.2 22.8

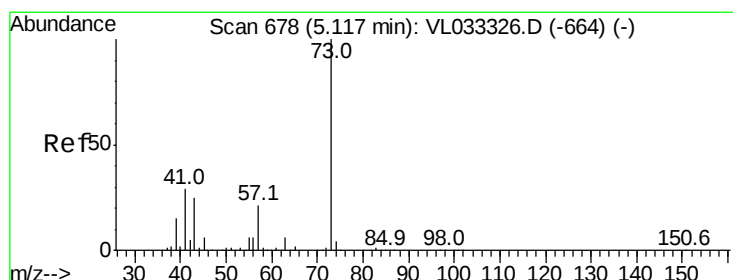
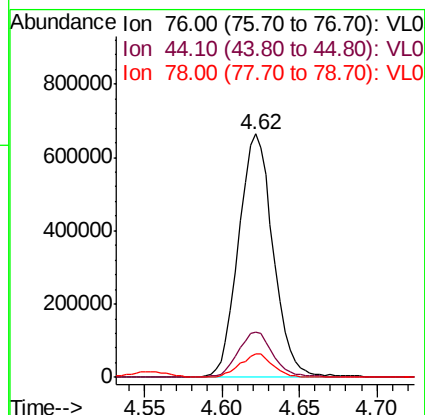
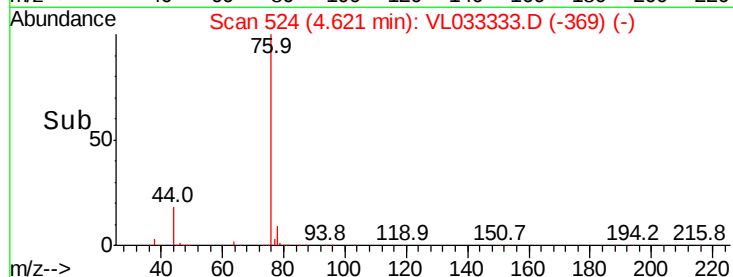
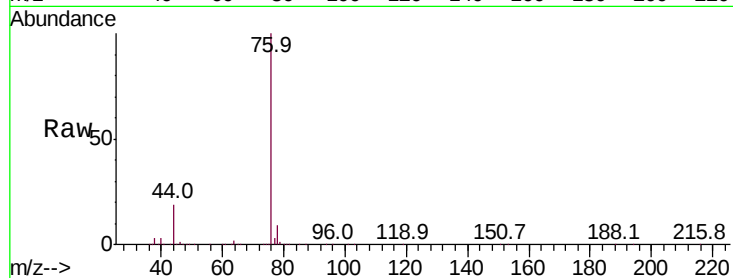
78 9.2 7.2 10.8

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#28

Methyl tert-Butyl Ether

Concen: 10.123 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL033333.D

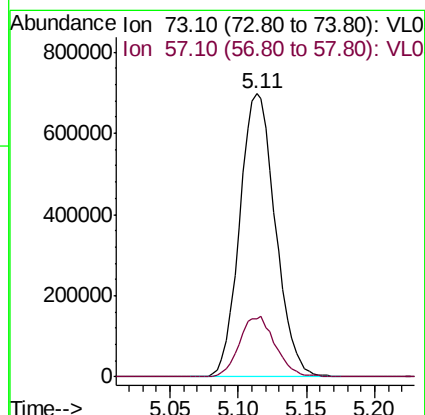
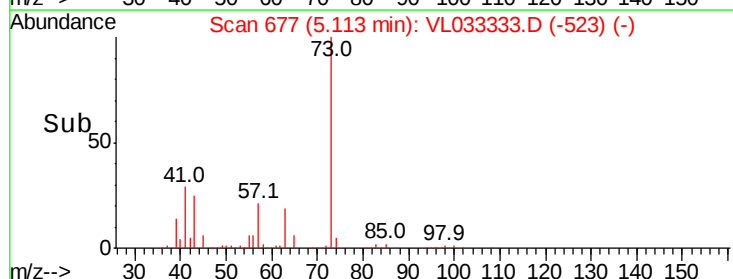
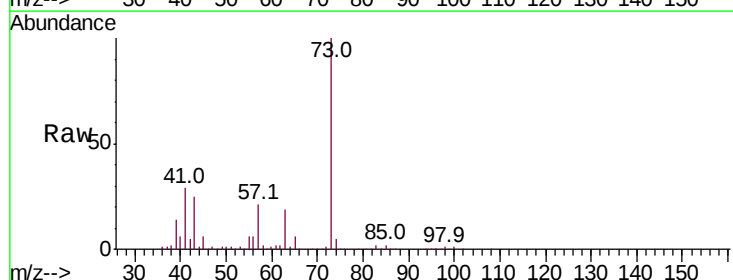
Acq: 15 Mar 2019 15:20

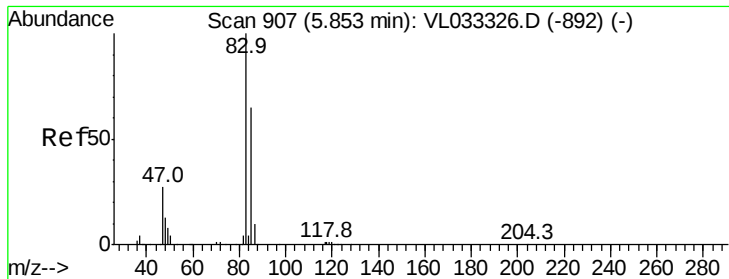
Tgt Ion: 73 Resp: 1264281

Ion Ratio Lower Upper

73 100

57 21.5 17.4 26.0





#29

Chloroform

Concen: 9.885 ppbv

RT: 5.85 min Scan# 907

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 83 Resp: 1360955

Ion Ratio Lower Upper

83 100

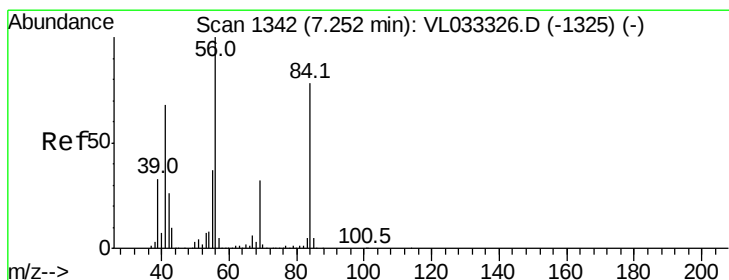
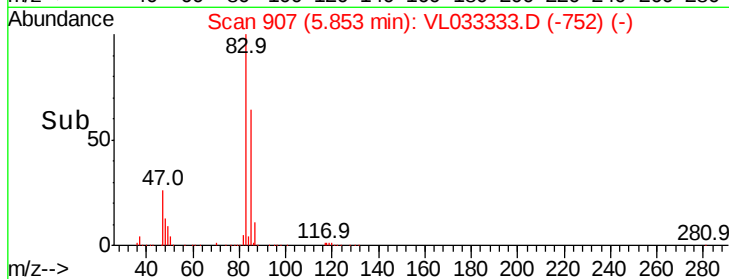
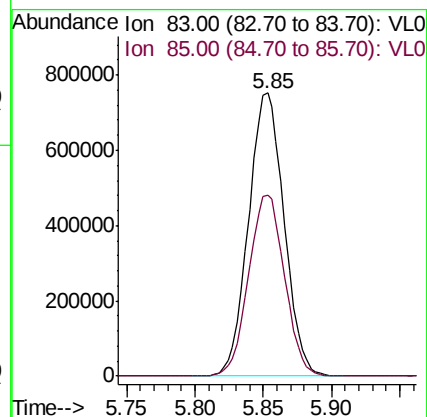
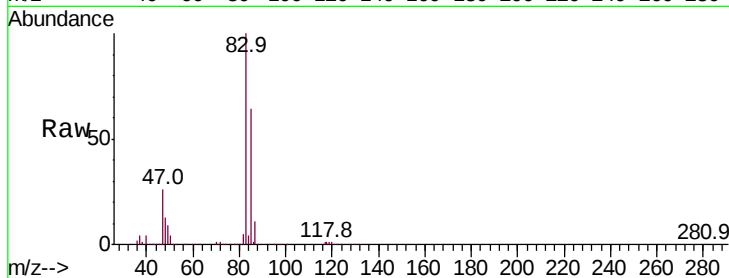
85 63.8 52.0 78.0

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#30

Cyclohexane

Concen: 10.601 ppbv

RT: 7.25 min Scan# 1343

Delta R.T. 0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

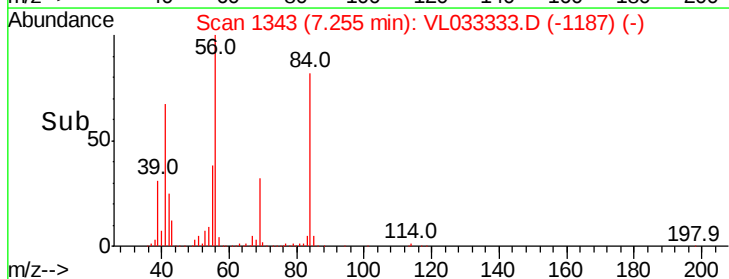
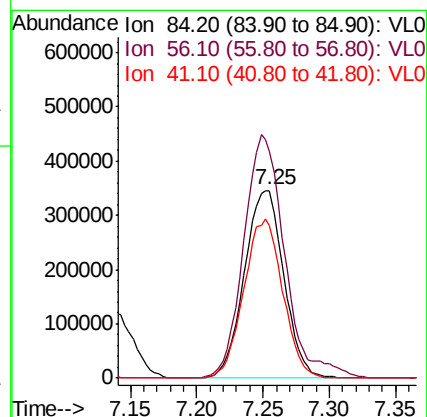
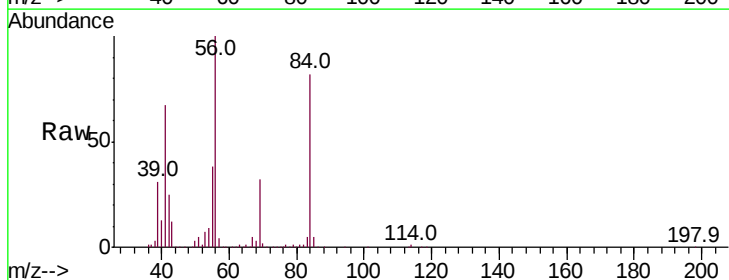
Tgt Ion: 84 Resp: 714648

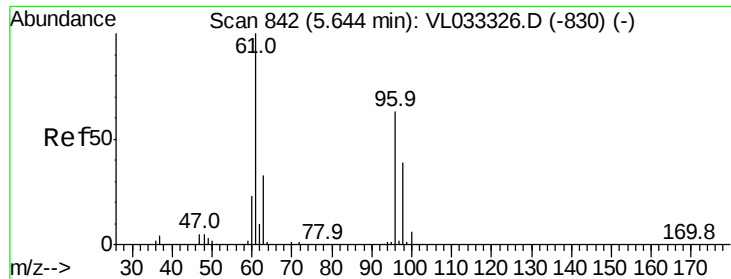
Ion Ratio Lower Upper

84 100

56 135.4 111.3 166.9

41 84.0 69.6 104.4





#31

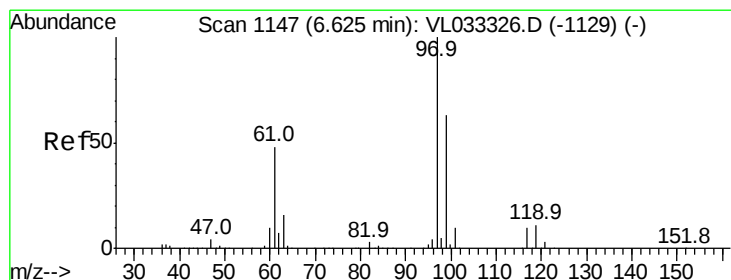
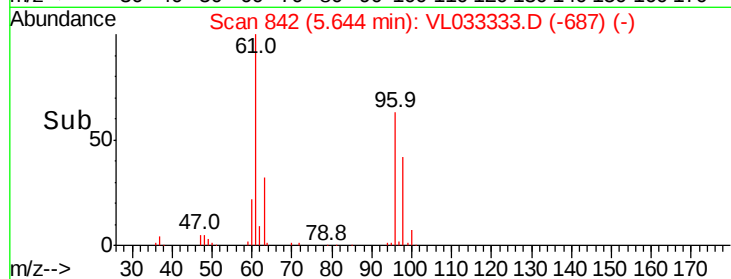
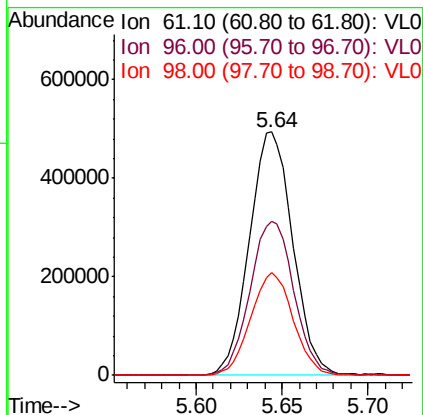
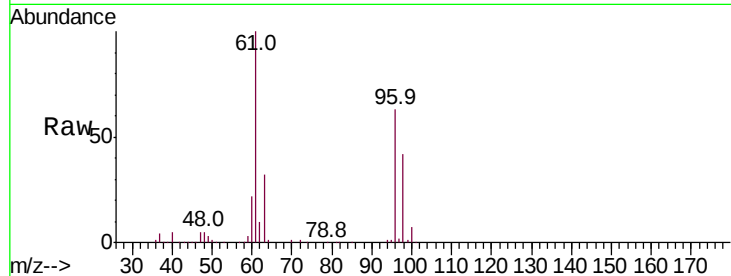
cis-1,2-Dichloroethene
Concen: 10.285 ppbv
RT: 5.64 min Scan# 842
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.1	50.3	75.5
98	42.1	31.5	47.3

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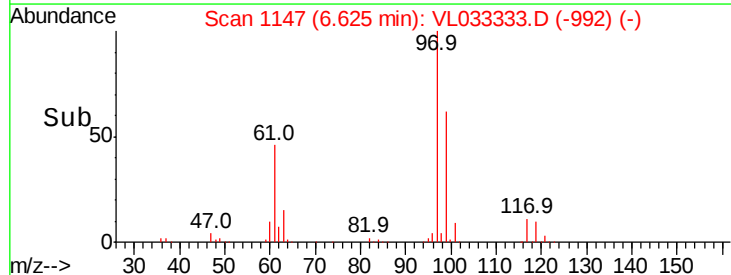
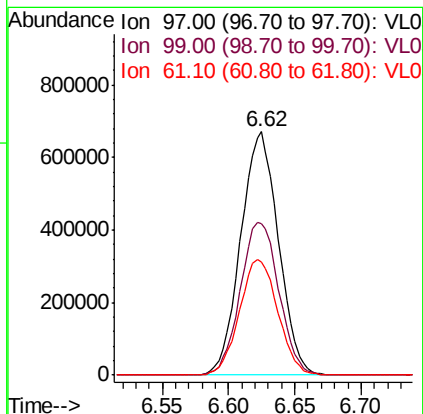
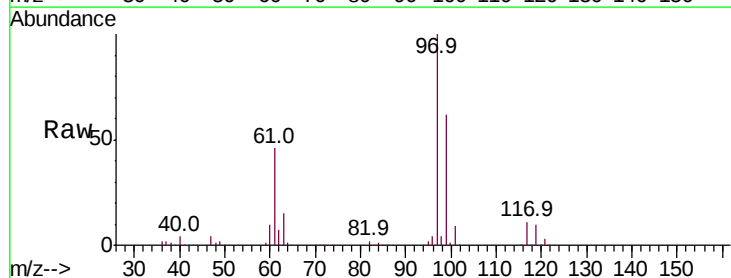
MMDadoda
3/19/2019 10:02:29 AM

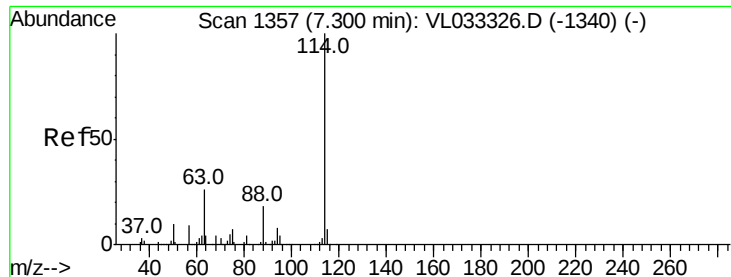


#32

1,1,1-Trichloroethane
Concen: 9.832 ppbv
RT: 6.62 min Scan# 1147
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.0	76.6
61	48.3	39.3	58.9





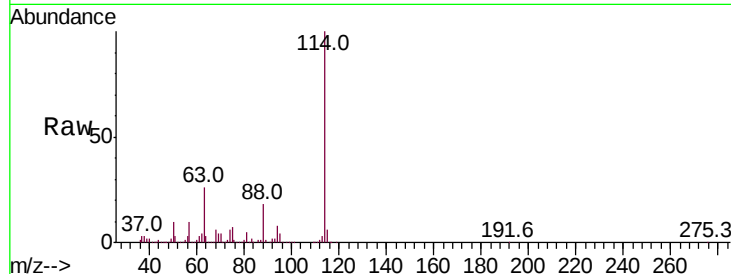
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

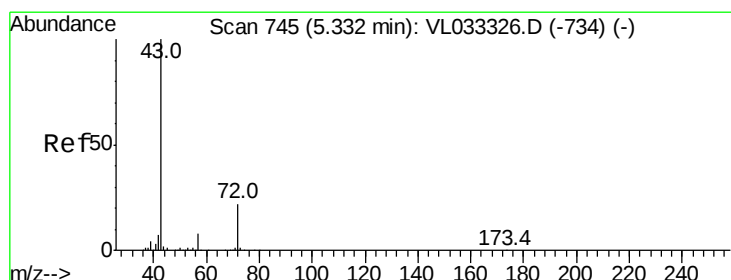
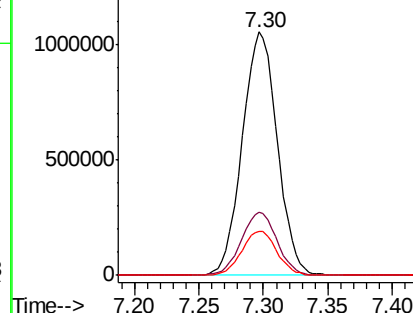
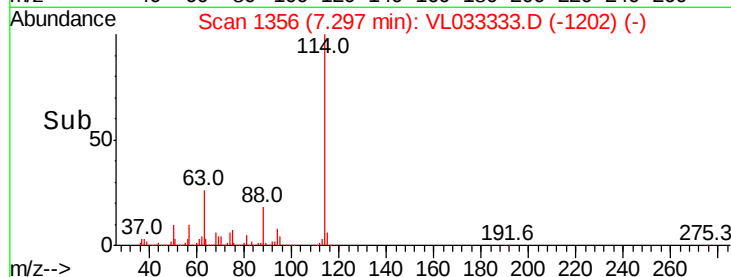
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.4	32.2
88	18.3	14.5	21.7

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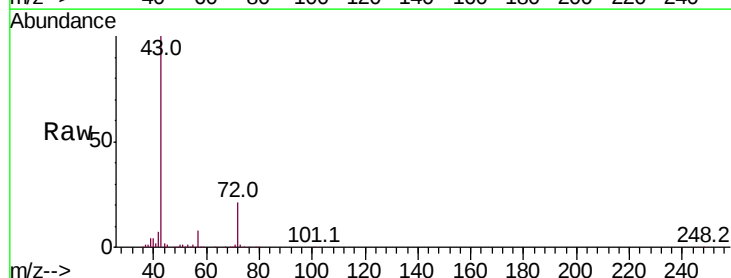


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

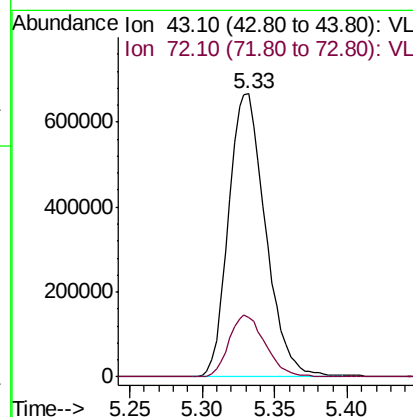
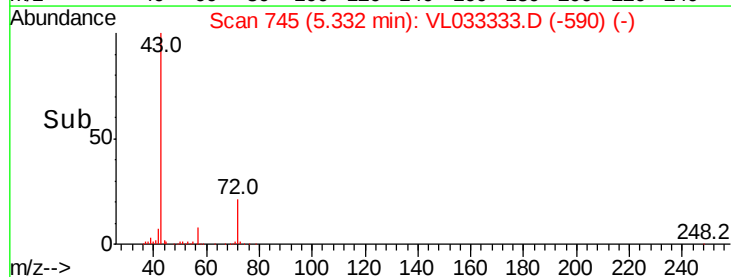


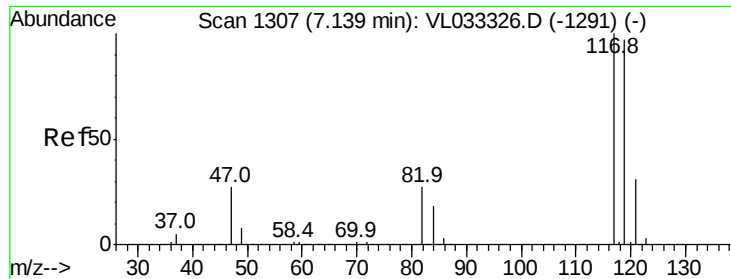
#34
 2-Butanone
 Concen: 8.990 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.7	26.5



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





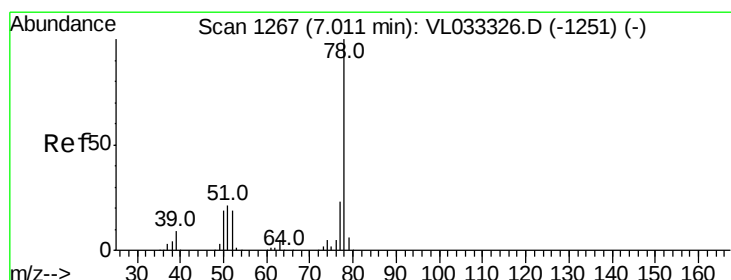
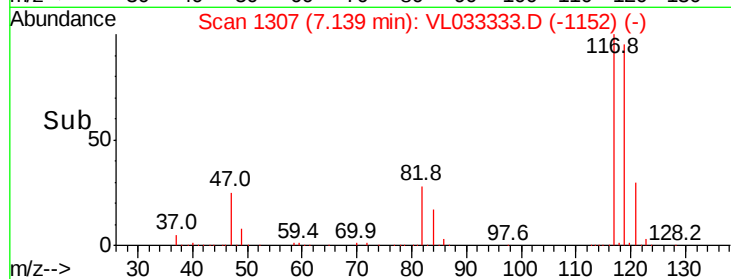
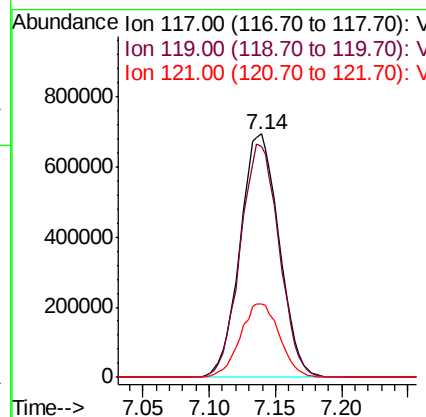
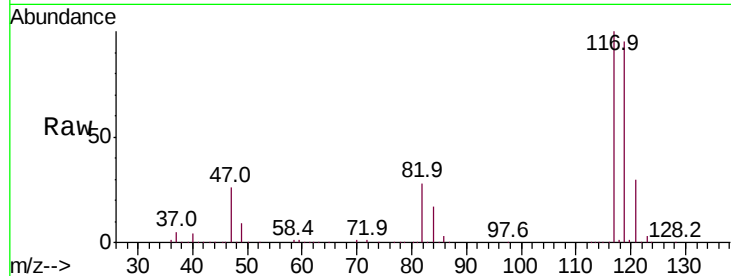
#35
Carbon Tetrachloride
Concen: 10.134 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion:117 Resp: 1421957
Ion Ratio Lower Upper
117 100
119 94.9 77.4 116.0
121 30.4 24.9 37.3

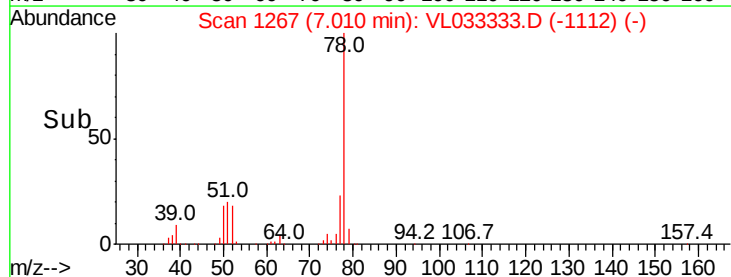
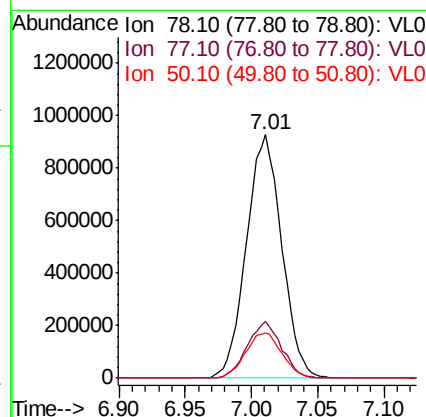
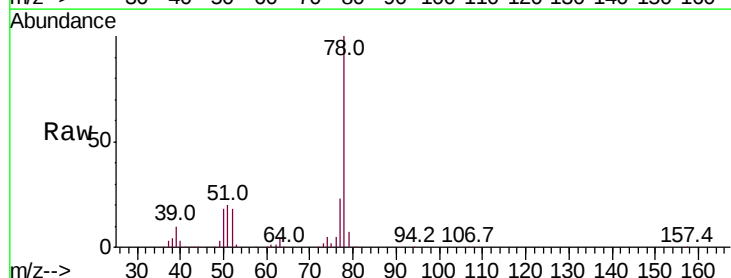
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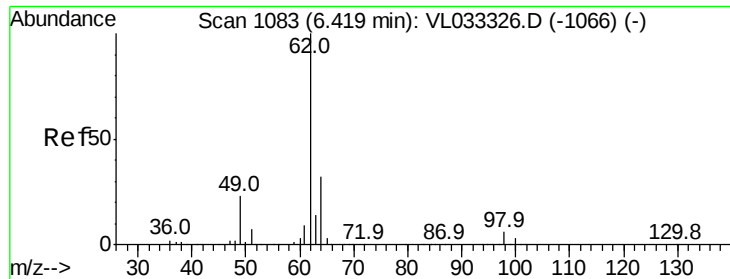
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#36
Benzene
Concen: 9.655 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion: 78 Resp: 1719672
Ion Ratio Lower Upper
78 100
77 23.3 18.1 27.1
50 18.5 15.2 22.8





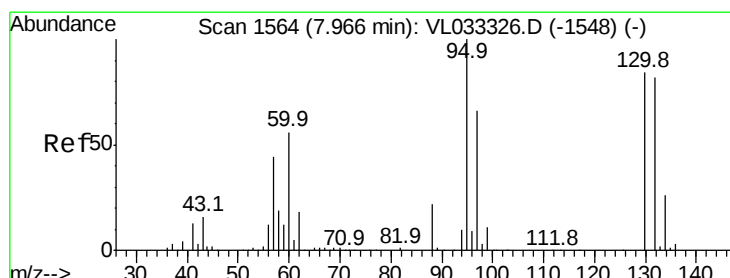
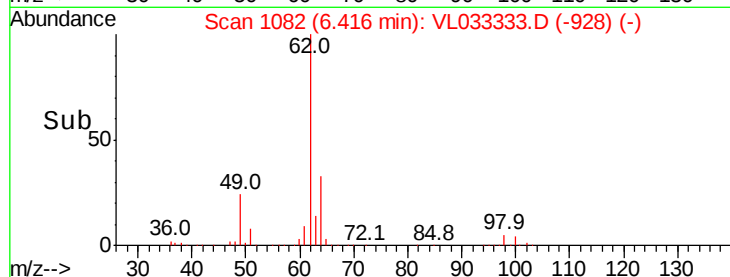
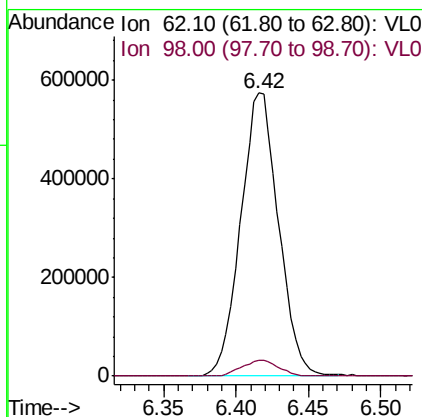
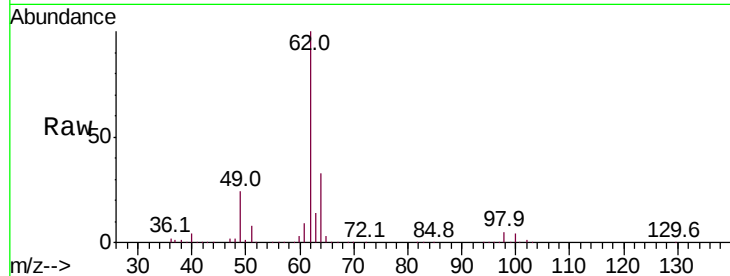
#37
 1,2-Dichloroethane
 Concen: 9.248 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

Tot Ion: 62 Resp: 1041581
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.5 6.7

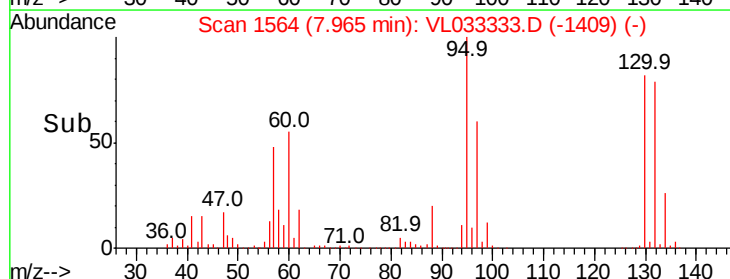
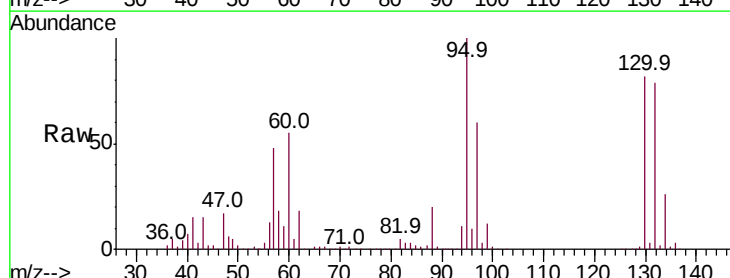
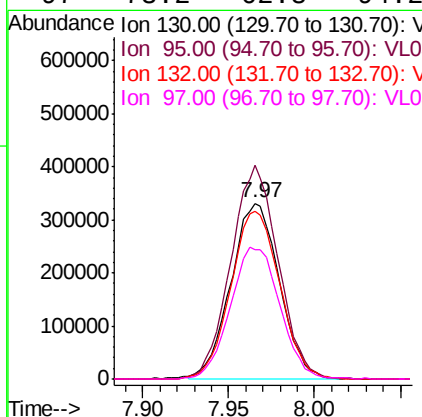
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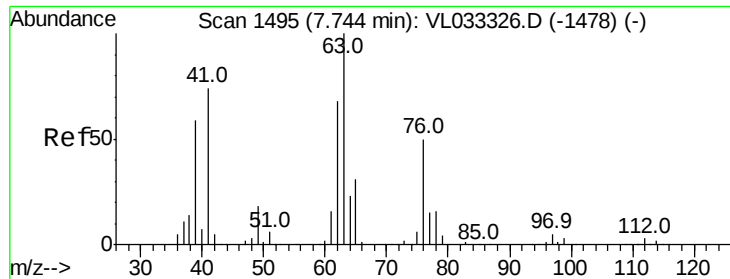
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#38
 Trichloroethene
 Concen: 9.513 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Tgt Ion: 130 Resp: 641189
 Ion Ratio Lower Upper
 130 100
 95 121.0 95.2 142.8
 132 95.5 77.7 116.5
 97 73.2 62.8 94.2





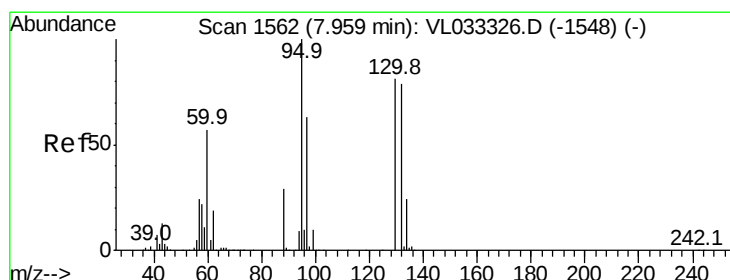
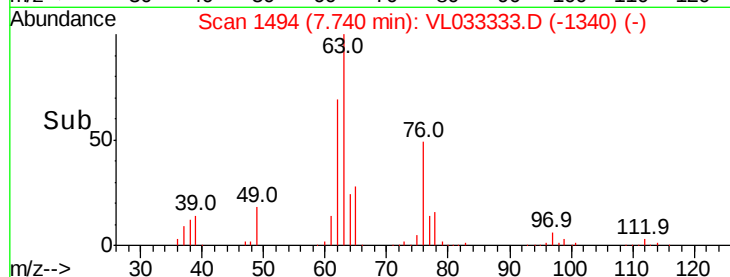
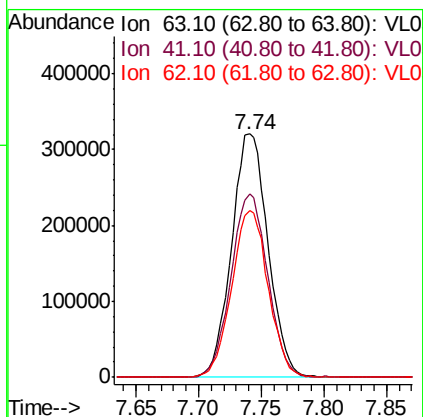
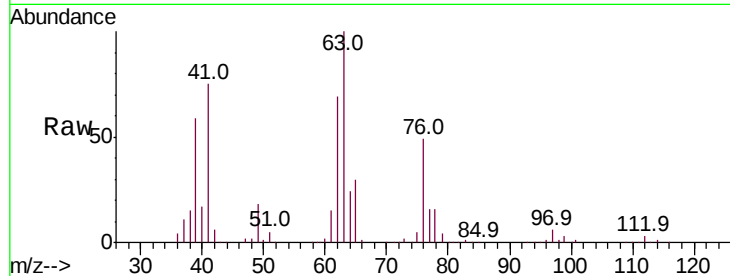
#39
 1,2-Dichloropropane
 Concen: 9.715 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.0	59.5	89.3
62	68.7	54.7	82.1

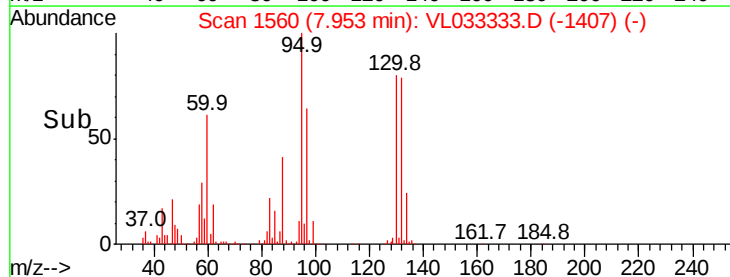
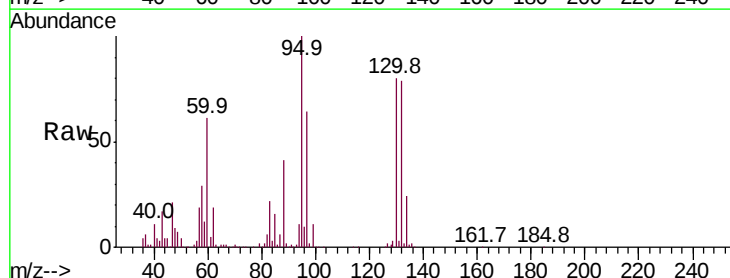
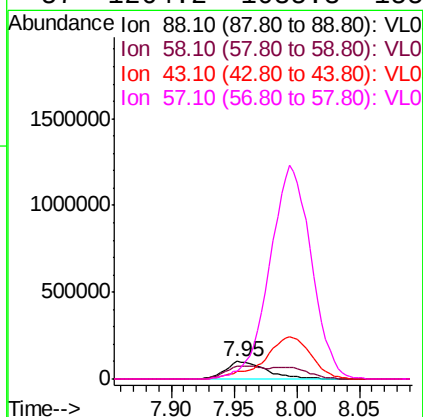
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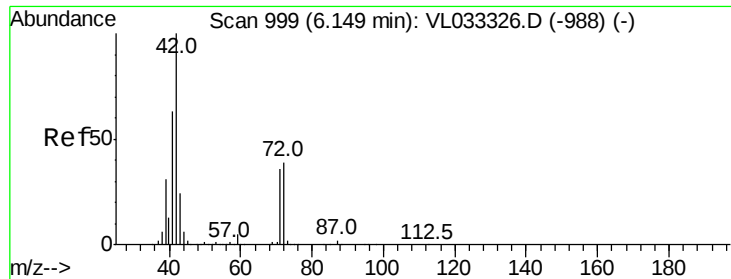
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#40
 1,4-Dioxane
 Concen: 9.543 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Tgt Ion	Ratio	Lower	Upper
88	100		
58	132.5	107.9	161.9
43	278.3	230.8	346.2
57	1264.2	1035.3	1552.9





#41

Tetrahydrofuran

Concen: 10.079 ppbv

RT: 6.15 min Scan# 999

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

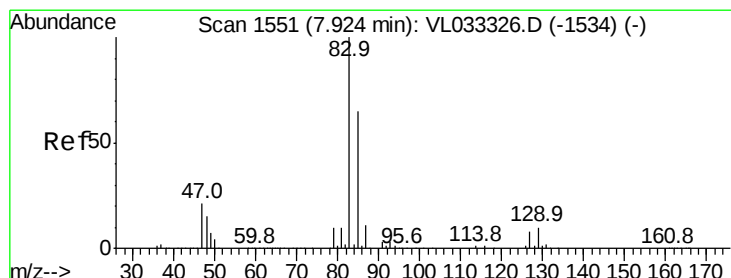
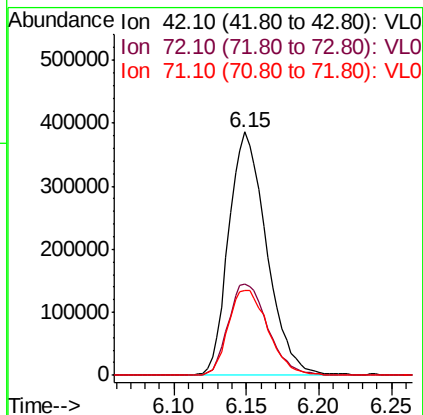
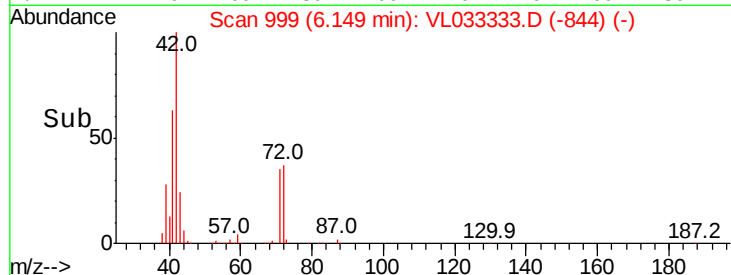
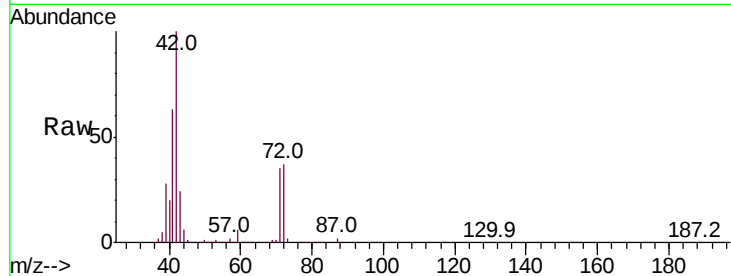
ClientSampleId :

ICVVL031519

Tot Ion:	42	Resp:	703045
Ion Ratio	Lower	Upper	
42	100		
72	39.4	31.6	47.4
71	37.0	29.9	44.9

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#42

Bromodichloromethane

Concen: 9.769 ppbv

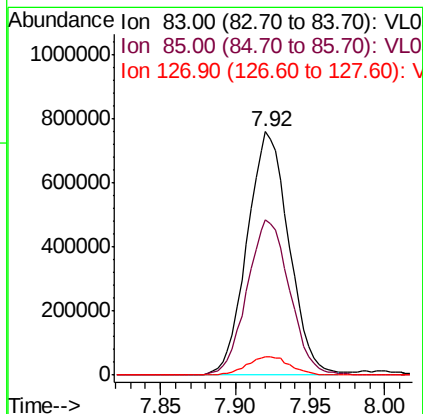
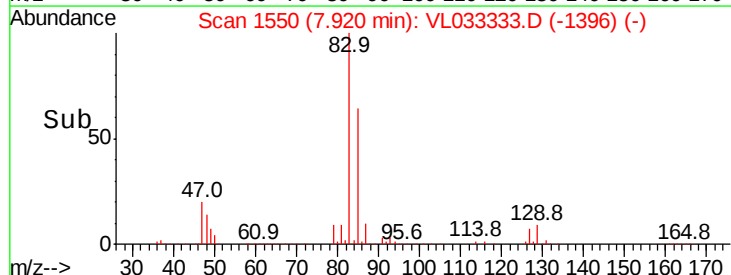
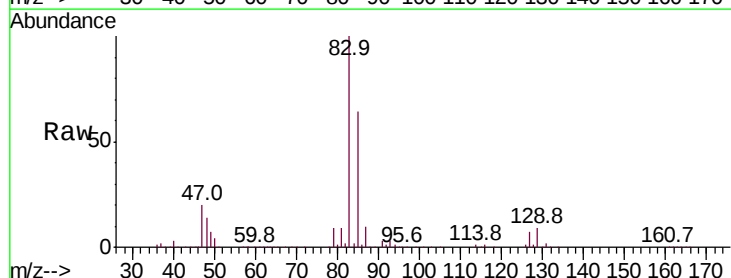
RT: 7.92 min Scan# 1550

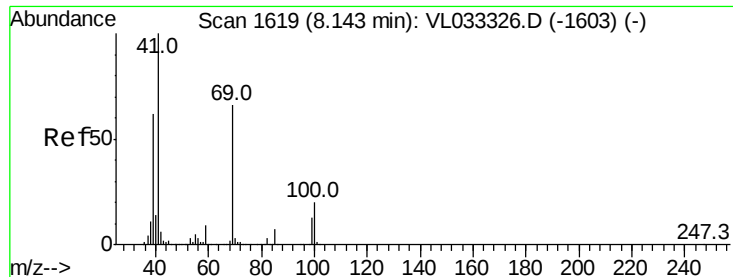
Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Tgt Ion:	83	Resp:	1475182
Ion Ratio	Lower	Upper	
83	100		
85	63.9	51.8	77.6
127	7.5	6.2	9.2





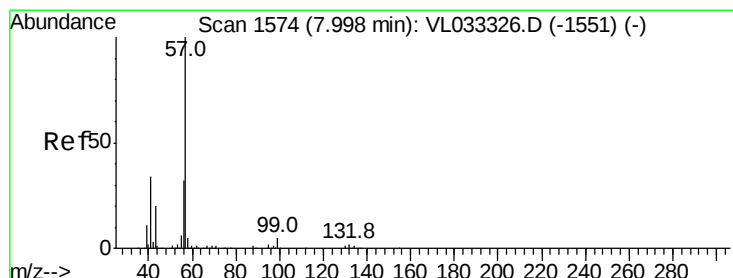
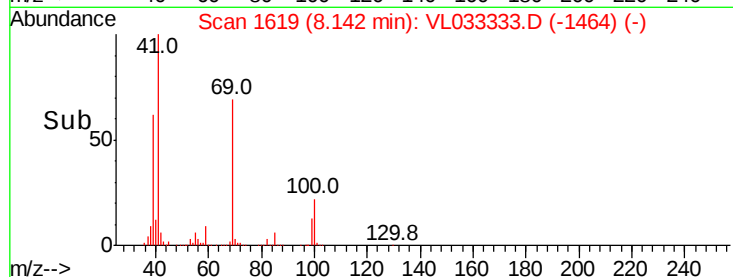
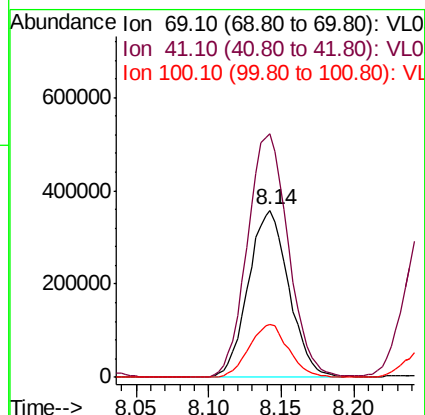
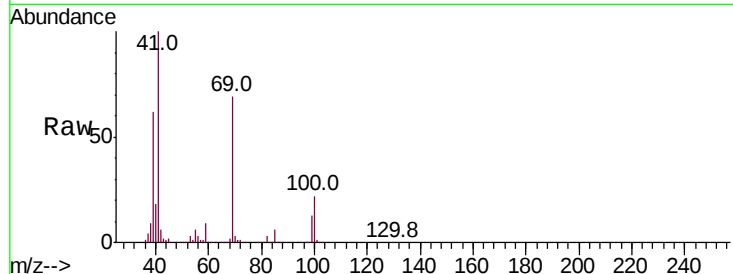
#43
Methvl Methacrylate
Concen: 10.070 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.1	119.5	179.3
100	31.1	24.4	36.6

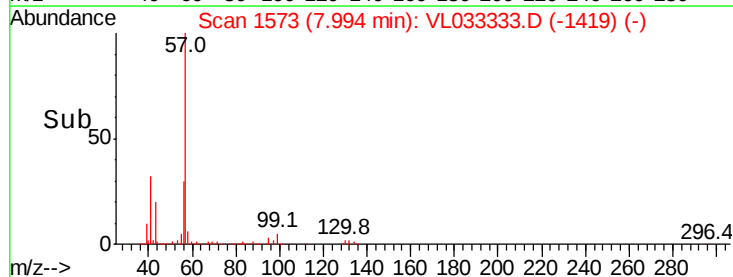
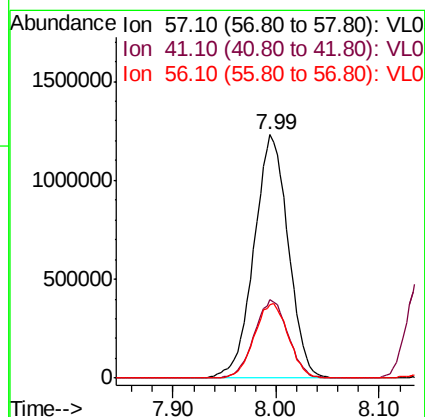
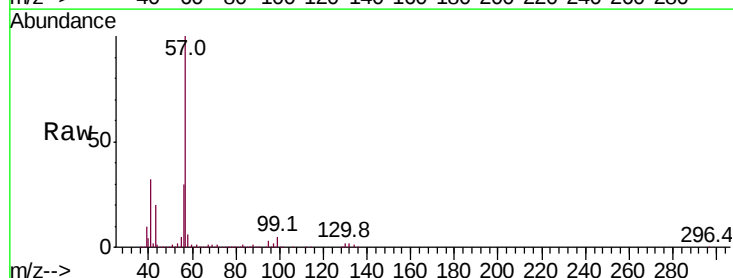
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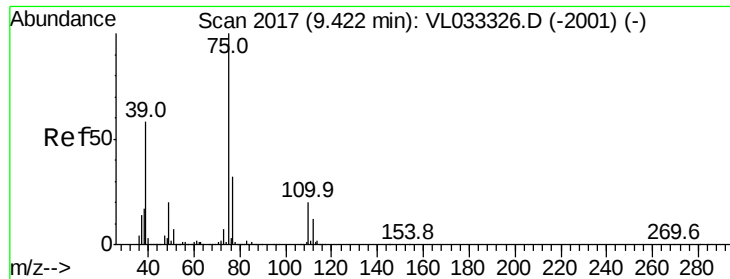
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#44
2,2,4-Trimethylpentane
Concen: 9.596 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.9	26.0	39.0
56	30.5	24.6	36.8





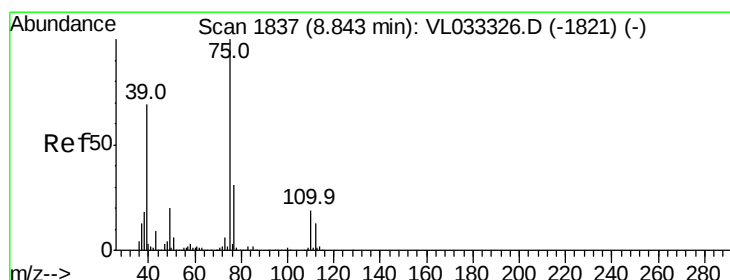
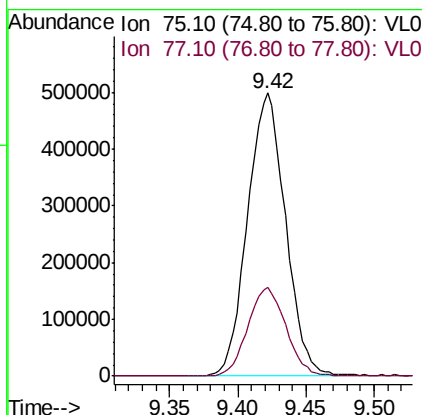
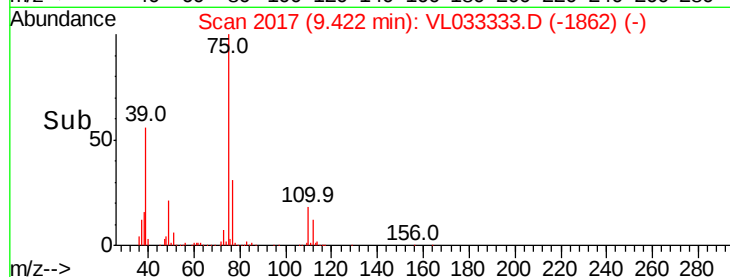
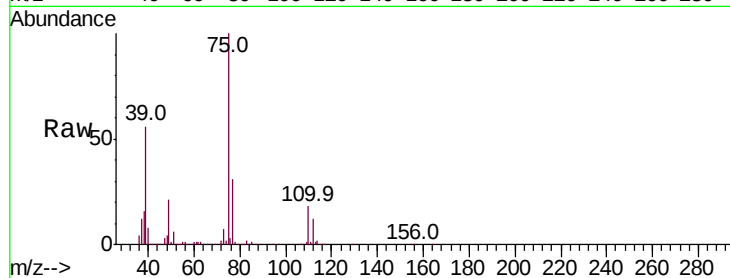
#45
t-1,3-Dichloropropene
Concen: 11.274 ppbv
RT: 9.42 min Scan# 2017
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion: 75 Resp: 965313
Ion Ratio Lower Upper
75 100
77 31.3 25.5 38.3

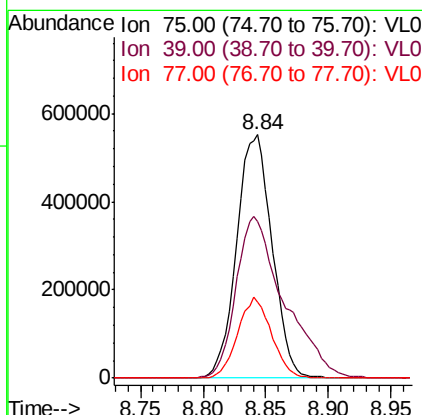
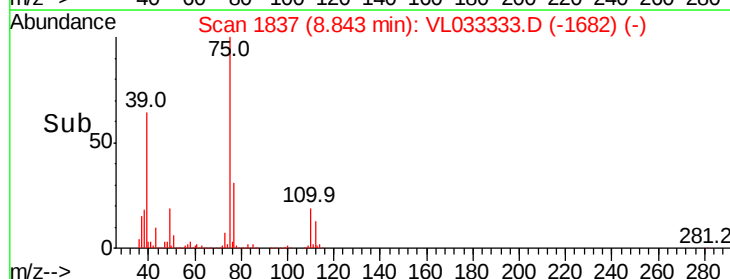
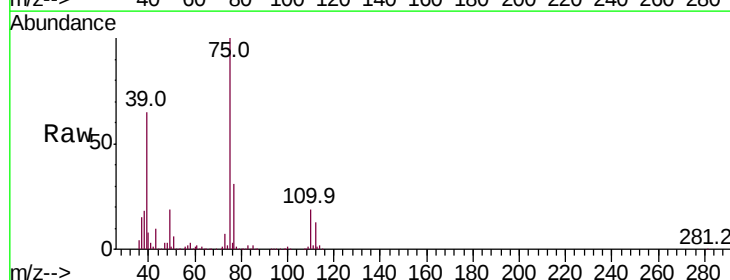
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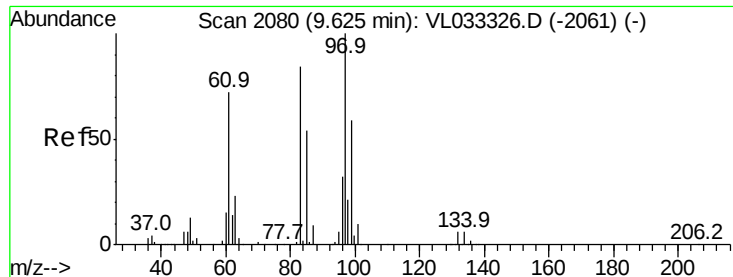
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#46
cis-1,3-Dichloropropene
Concen: 10.763 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion: 75 Resp: 1085212
Ion Ratio Lower Upper
75 100
39 64.5 55.0 82.6
77 31.2 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 9.624 ppbv

RT: 9.62 min Scan# 2079

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

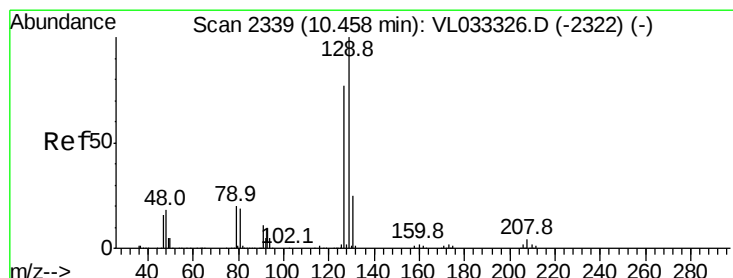
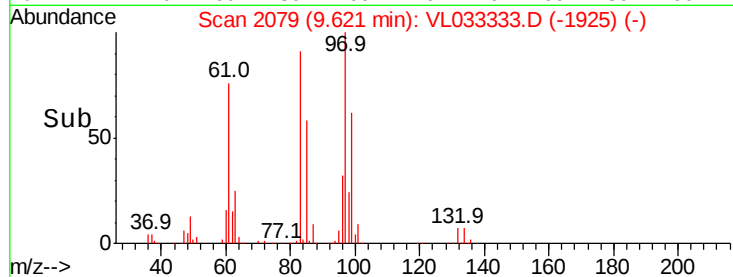
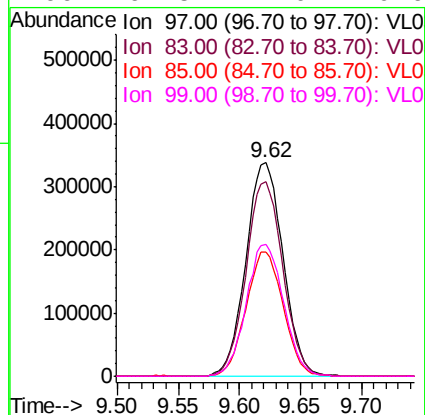
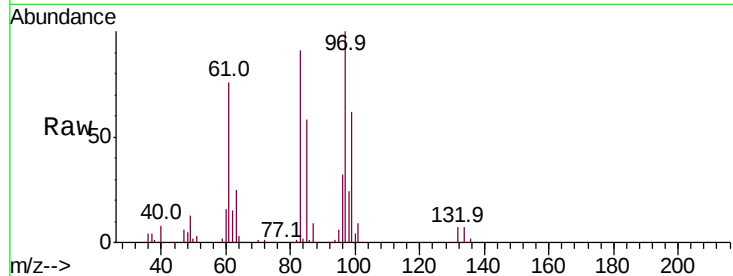
ClientSampleId :

ICVVL031519

Tot Ion:	97	Resp:	709315
Ion Ratio	Lower	Upper	
97	100		
83	91.0	67.4	101.0
85	58.0	43.0	64.4
99	61.5	47.0	70.6

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#48

Dibromochloromethane

Concen: 11.681 ppbv

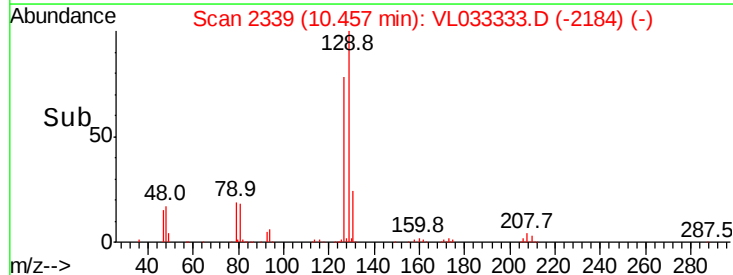
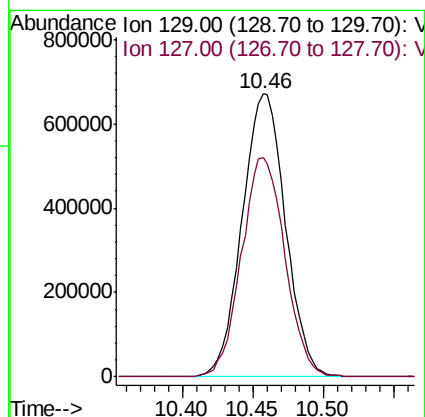
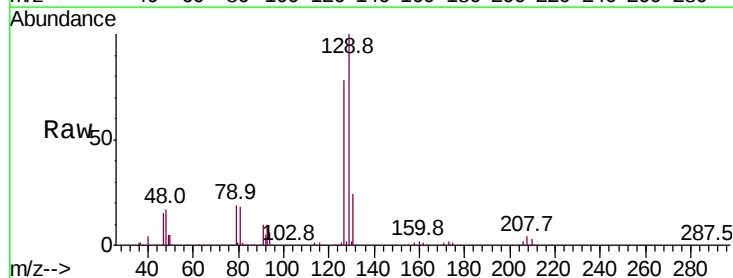
RT: 10.46 min Scan# 2339

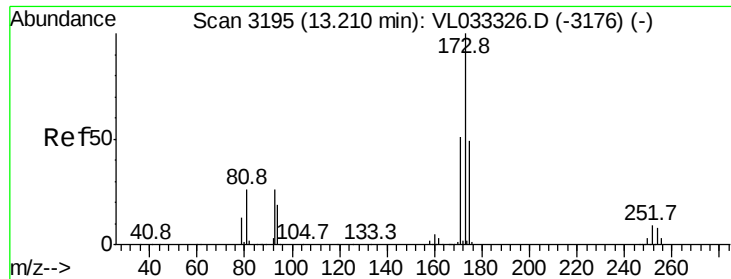
Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Tgt Ion:	129	Resp:	1443808
Ion Ratio	Lower	Upper	
129	100		
127	78.1	38.9	116.6





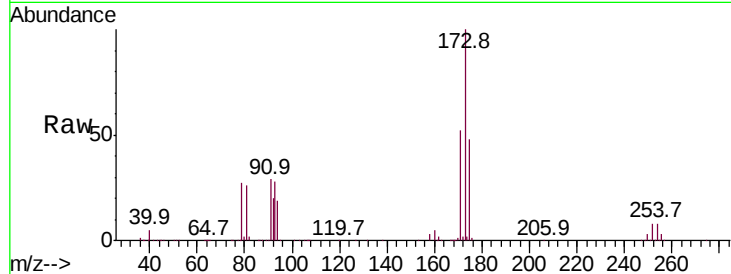
#49
Bromoform
Concen: 10.904 ppbv
RT: 13.21 min Scan# 3195
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

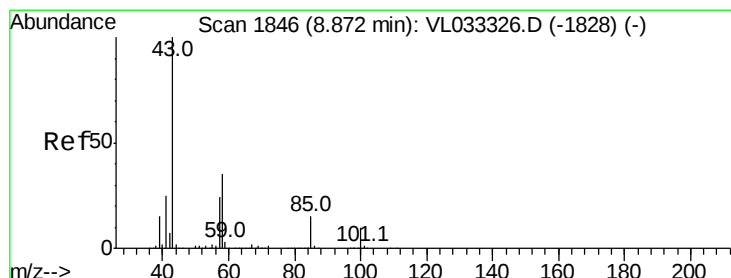
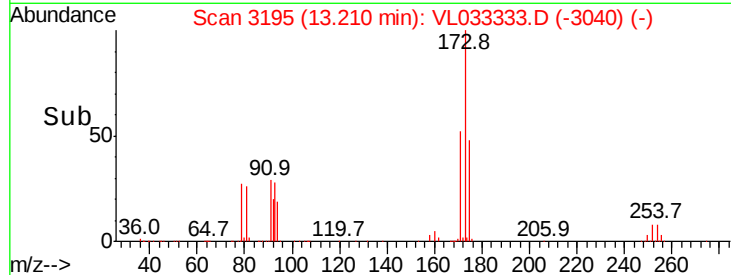
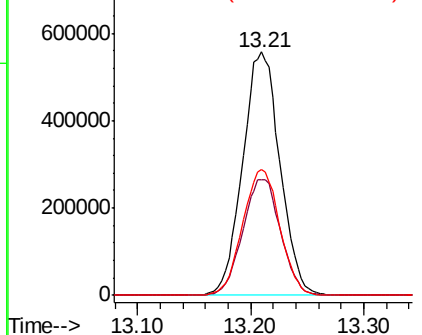
Tot Ion:173 Resp: 1278515
Ion Ratio Lower Upper
173 100
175 48.7 39.0 58.6
171 51.7 41.7 62.5

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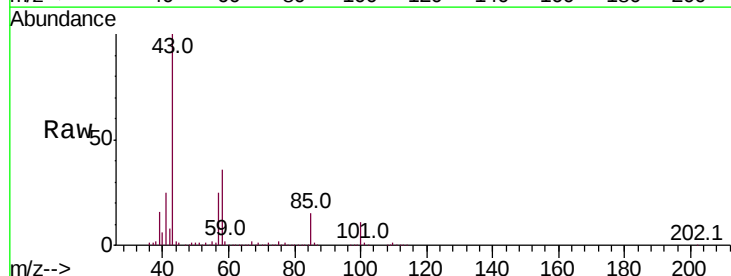


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

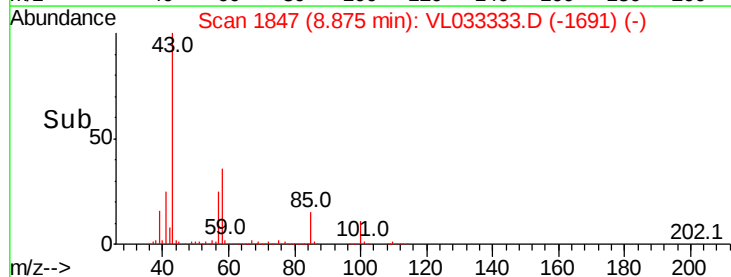
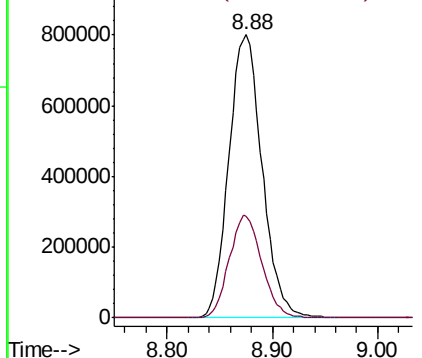


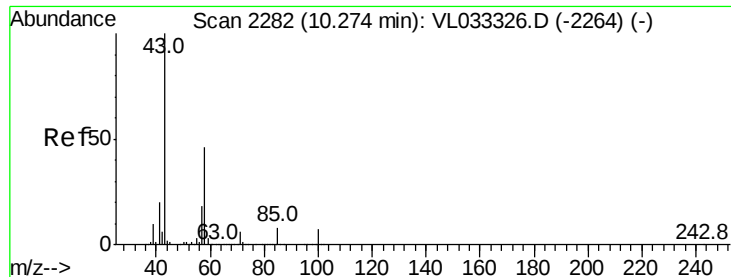
#50
4-Methyl-2-Pentanone
Concen: 9.484 ppbv
RT: 8.88 min Scan# 1847
Delta R.T. 0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion: 43 Resp: 1751073
Ion Ratio Lower Upper
43 100
58 35.7 28.4 42.6



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





#51

2-Hexanone

Concen: 11.234 ppbv

RT: 10.28 min Scan# 2283

Delta R.T. 0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 43 Resp: 1600156

Ion Ratio Lower Upper

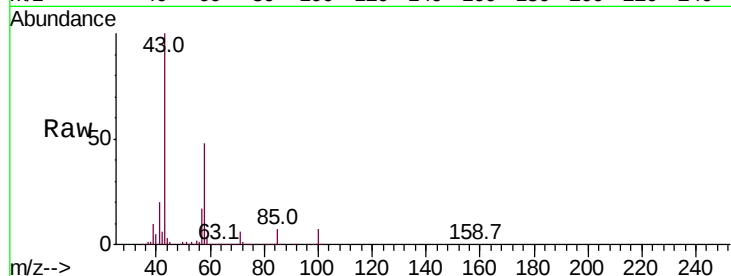
43 100

58 47.5 38.0 57.0

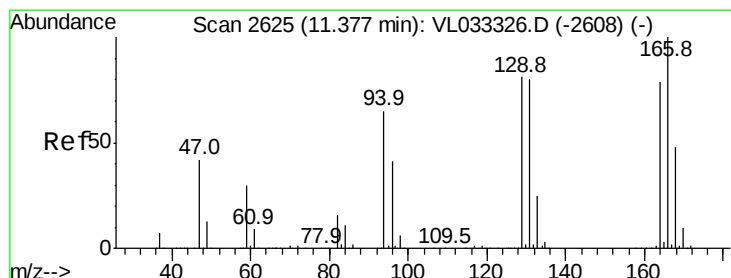
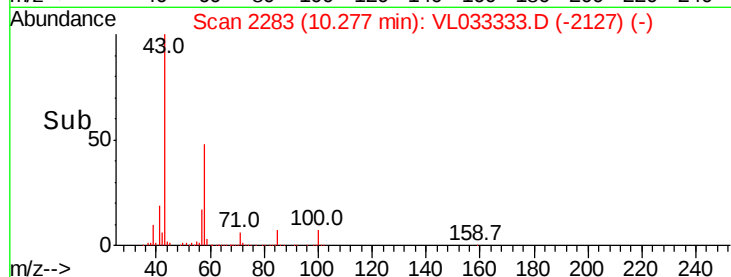
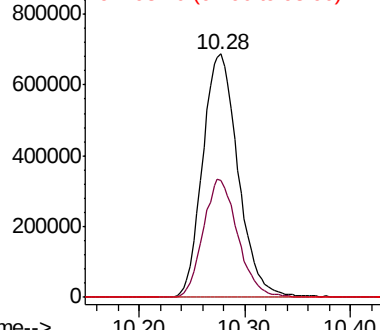
98 0.1 0.1 0.1#

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



#52

Tetrachloroethene

Concen: 9.874 ppbv

RT: 11.38 min Scan# 2627

Delta R.T. 0.01 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Tgt Ion: 164 Resp: 732678

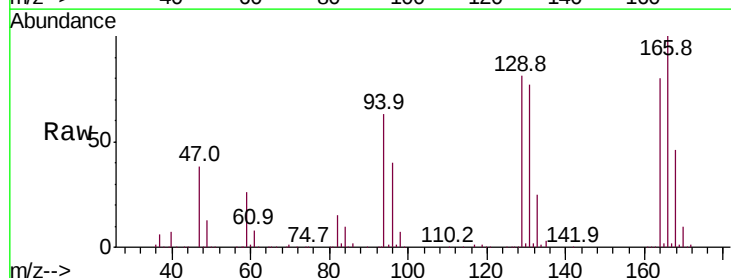
Ion Ratio Lower Upper

164 100

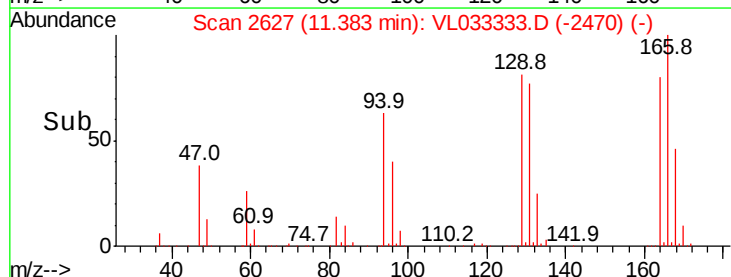
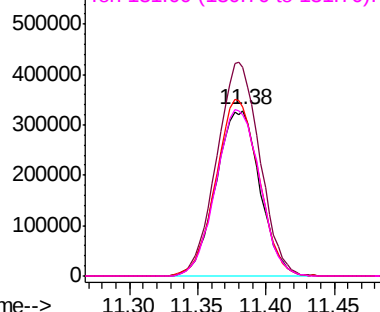
166 125.7 101.5 152.3

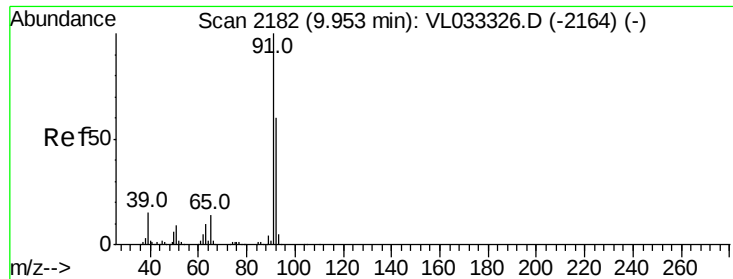
129 101.8 82.2 123.2

131 97.0 81.1 121.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.369 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 91 Resp: 2301082

Ion Ratio Lower Upper

91 100

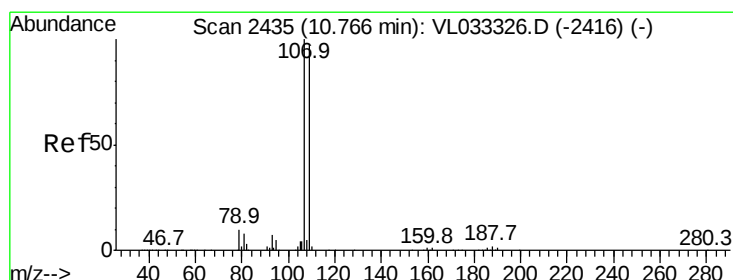
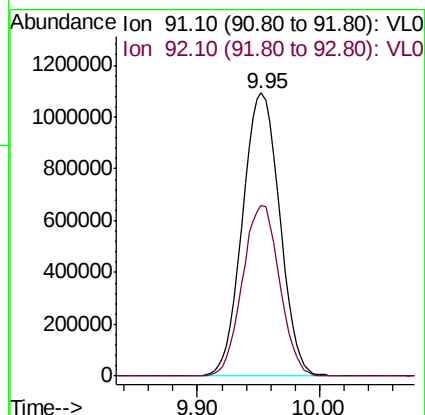
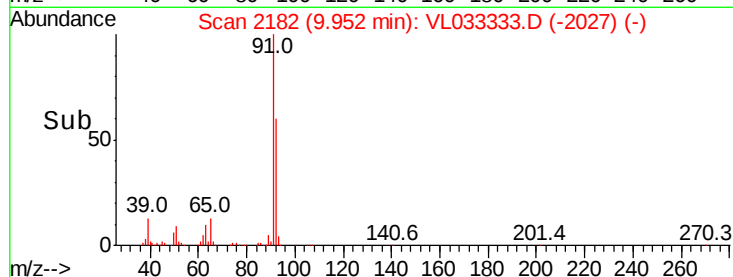
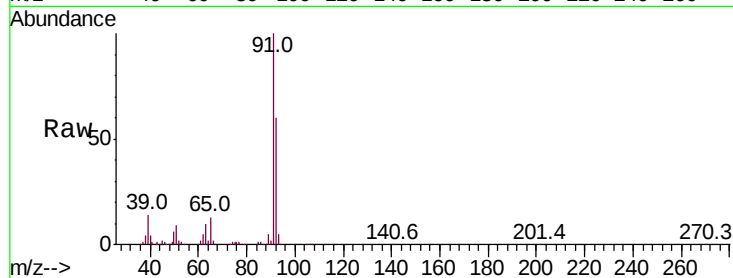
92 60.1 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 10.497 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL033333.D

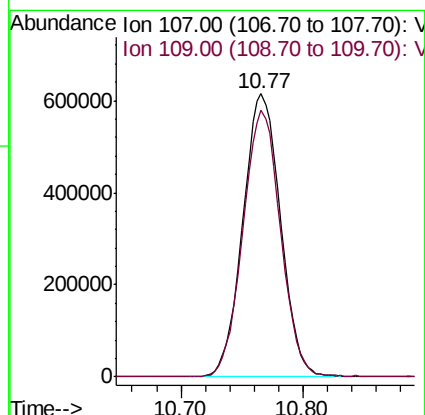
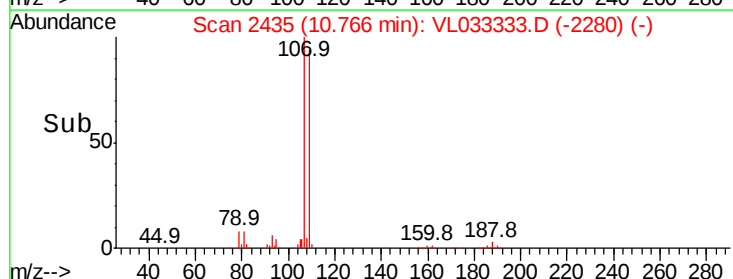
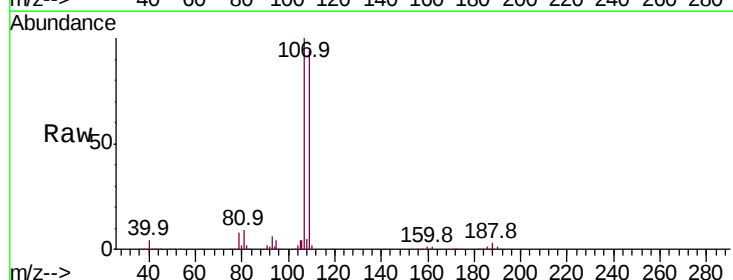
Acq: 15 Mar 2019 15:20

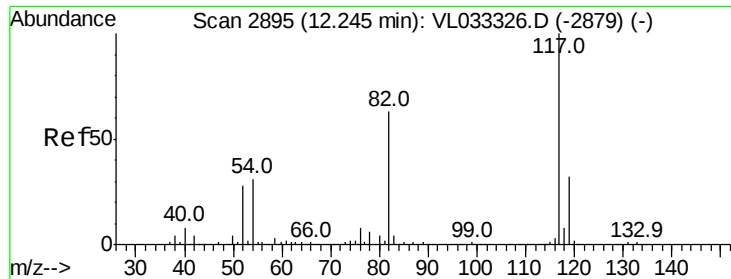
Tgt Ion: 107 Resp: 1307861

Ion Ratio Lower Upper

107 100

109 94.4 77.2 115.8





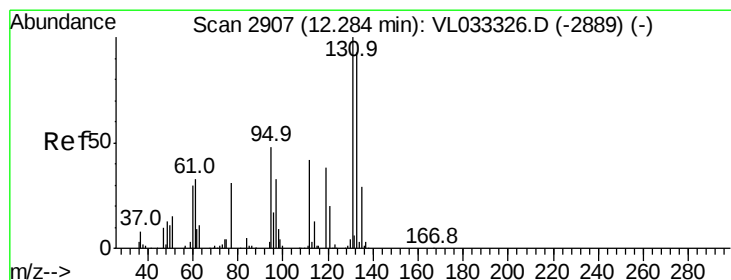
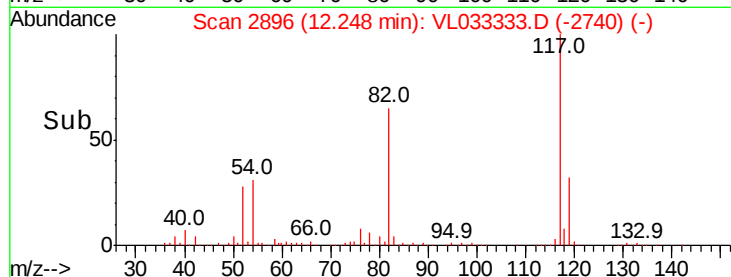
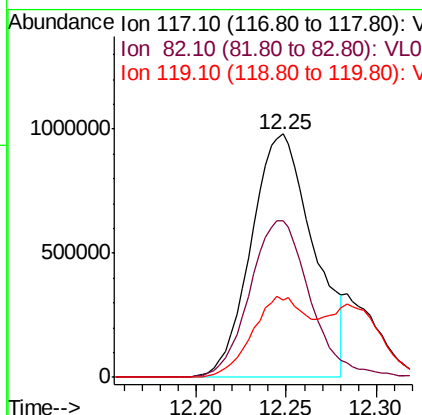
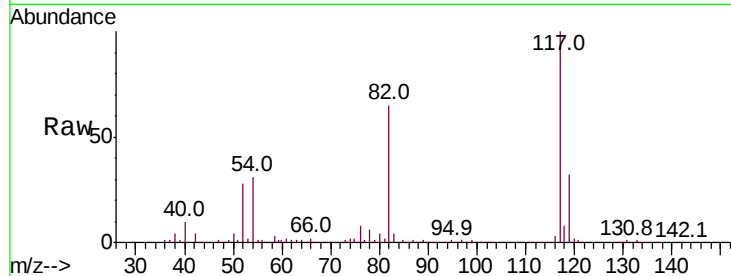
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion:117 Resp: 2367926
Ion Ratio Lower Upper
117 100
82 62.8 53.4 80.2
119 32.2 27.3 40.9

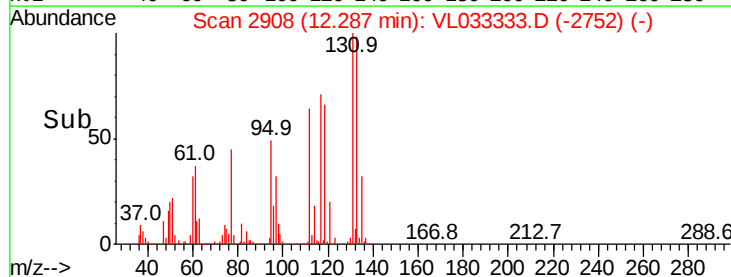
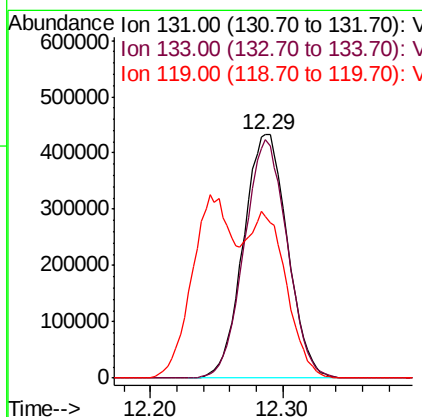
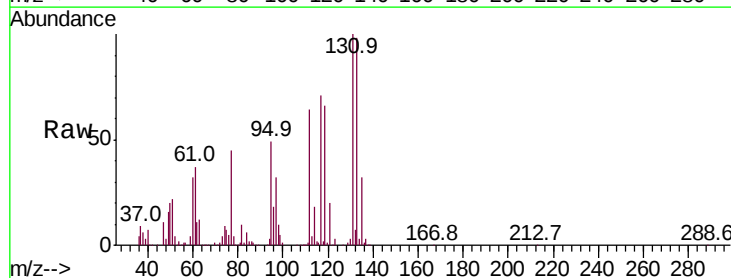
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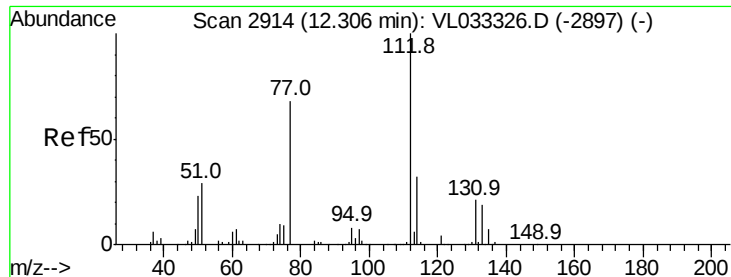
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.446 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion:131 Resp: 1000588
Ion Ratio Lower Upper
131 100
133 95.5 76.7 115.1
119 61.3 40.3 60.5#





#57

Chlorobenzene

Concen: 9.141 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion:112 Resp: 1714307

Ion Ratio Lower Upper

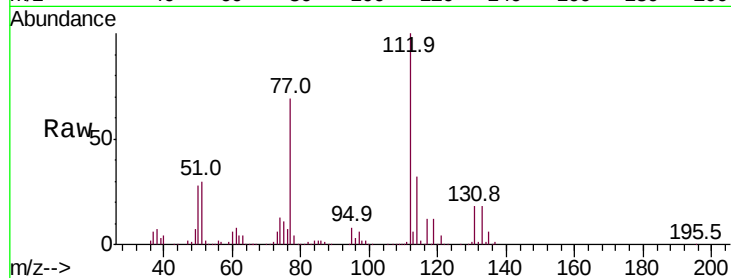
112 100

77 69.4 55.8 83.6

114 32.4 28.6 35.0

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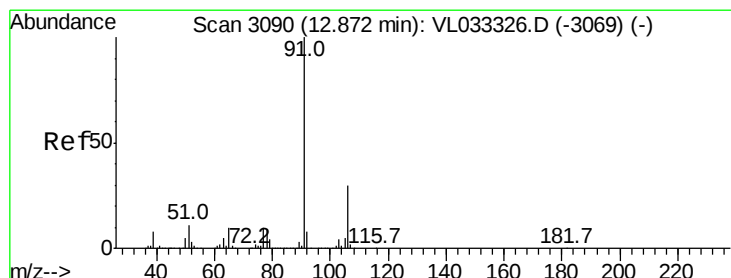
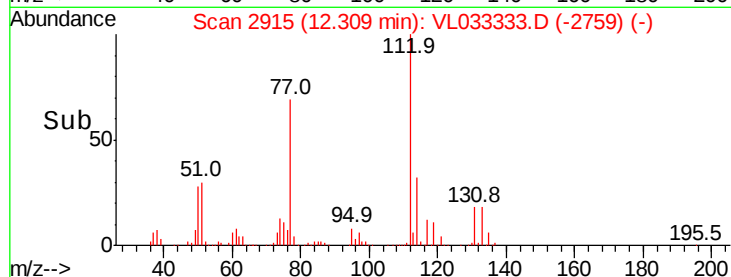
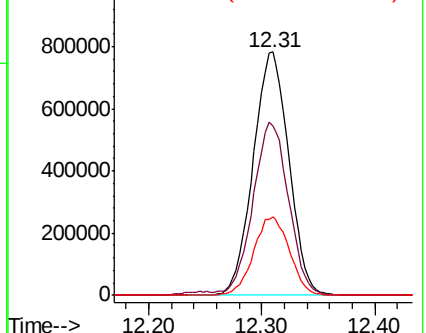
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.676 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL033333.D

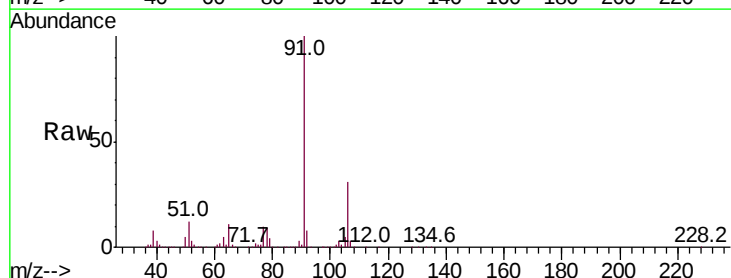
Acq: 15 Mar 2019 15:20

Tgt Ion: 91 Resp: 3241308

Ion Ratio Lower Upper

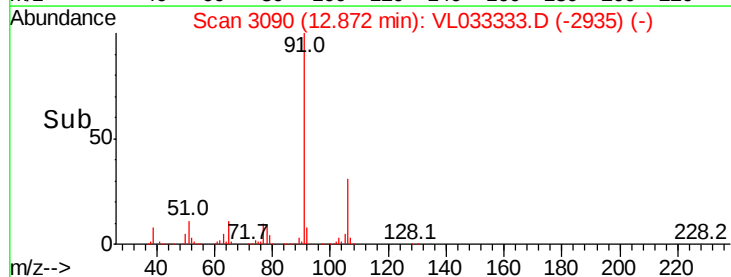
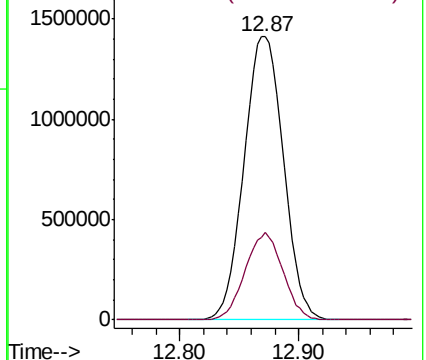
91 100

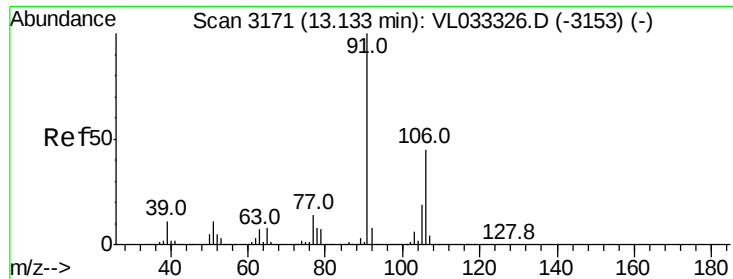
106 30.7 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





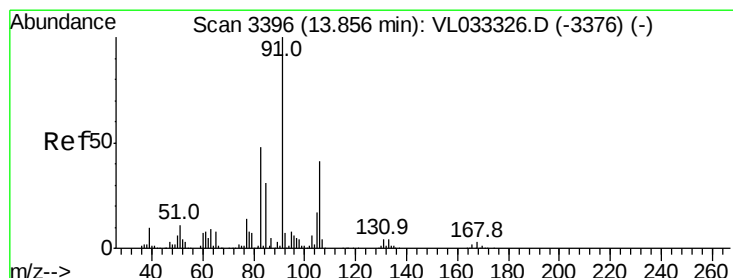
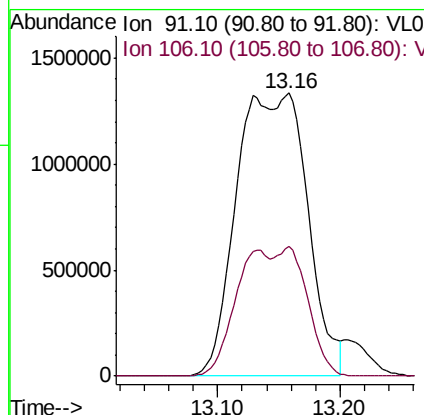
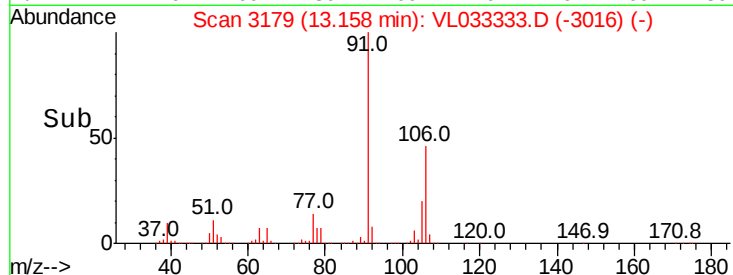
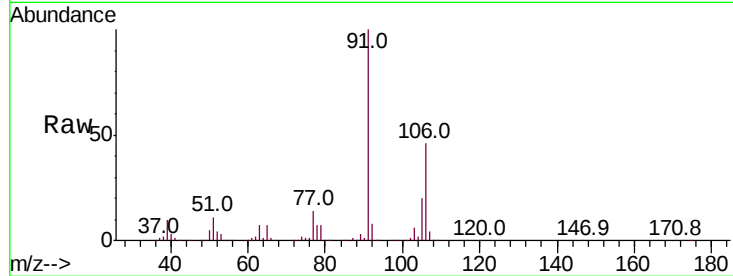
#59
m/p-Xylene
Concen: 18.721 ppbv m
RT: 13.16 min Scan# 3179
Delta R.T. 0.03 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion: 91 Resp: 5389421
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

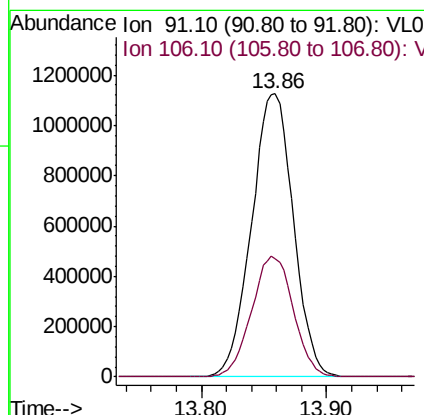
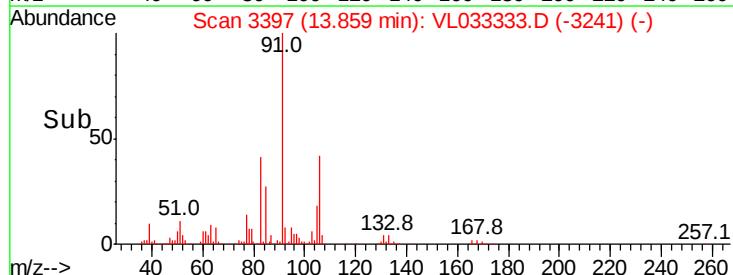
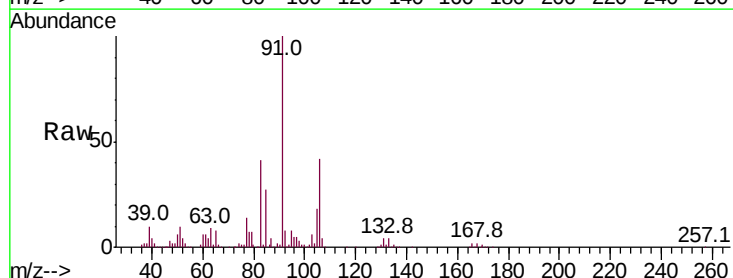
Manual Integrations
APPROVED

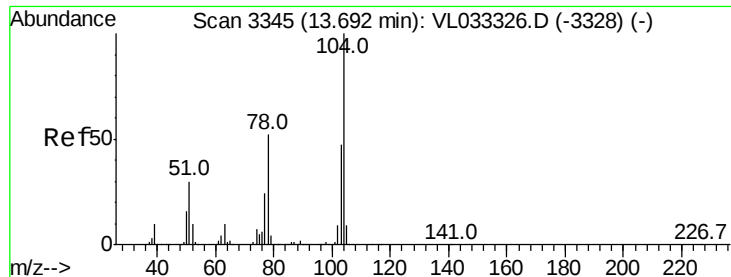
MMDadoda
3/19/2019 10:02:29 AM



#60
o-Xylene
Concen: 9.285 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion: 91 Resp: 2607530
Ion Ratio Lower Upper
91 100
106 42.9 21.3 63.9





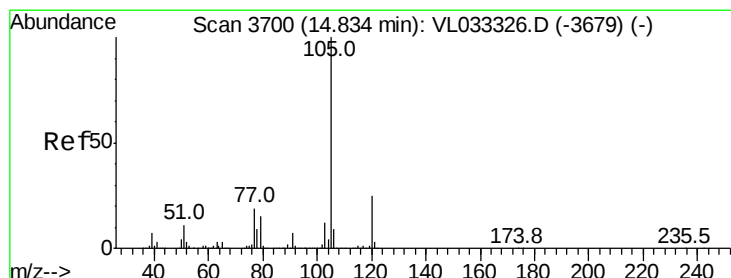
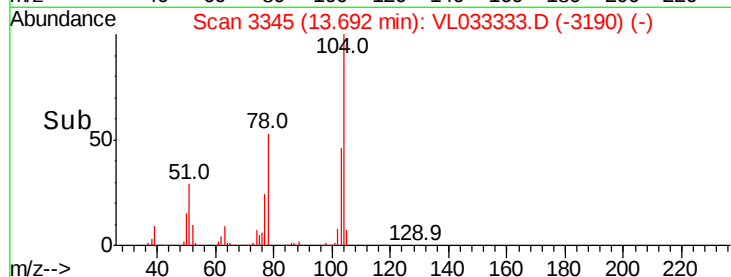
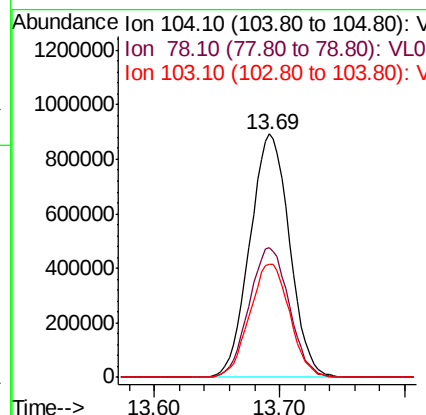
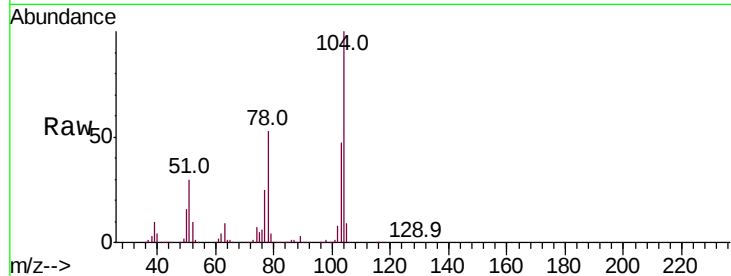
#61
Stvrene
Concen: 9.991 ppbv
RT: 13.69 min Scan# 3345
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.0	42.7	64.1
103	47.1	38.0	57.0

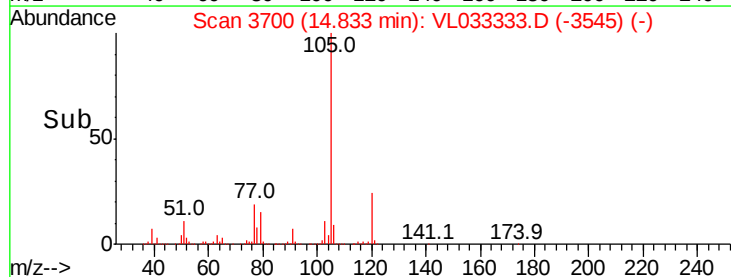
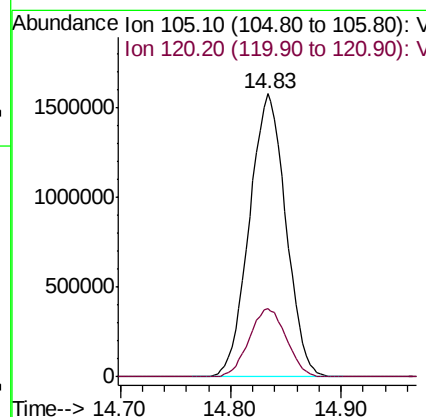
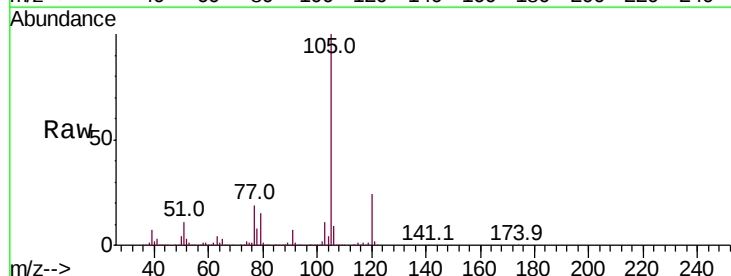
Manual Integrations
APPROVED

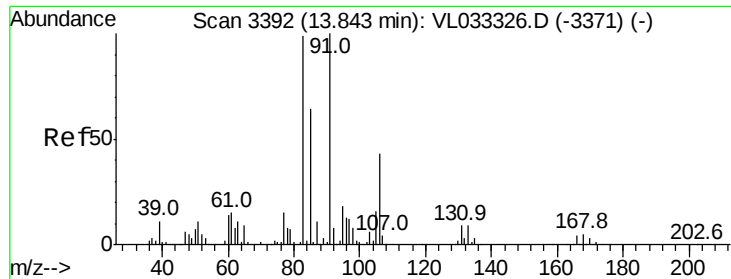
MMDadoda
3/19/2019 10:02:29 AM



#62
Isopropylbenzene
Concen: 9.269 ppbv
RT: 14.83 min Scan# 3700
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.7	19.9	29.9





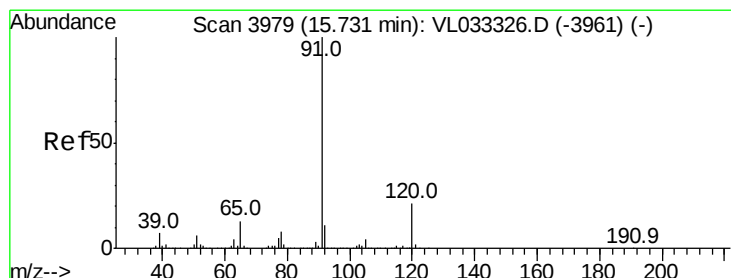
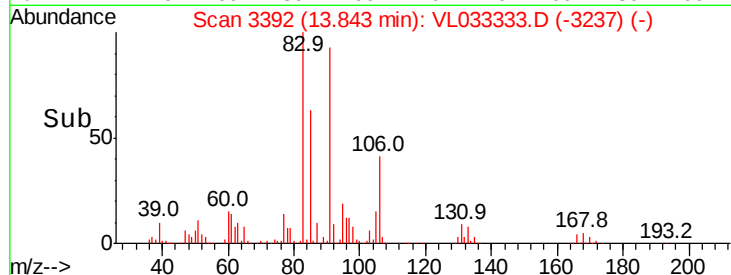
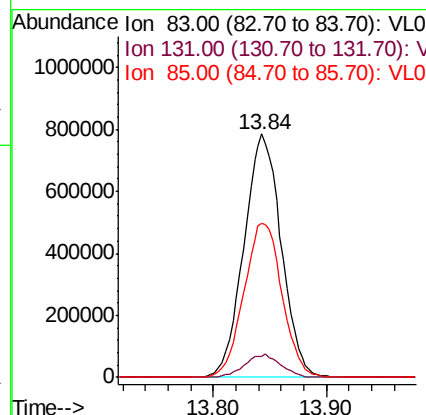
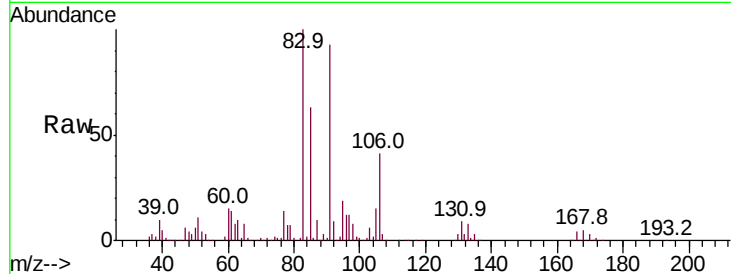
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.866 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

Tot Ion	83	Resp	1799948
Ion Ratio	100	Lower	Upper
83	100		
131	9.1	4.7	14.0
85	64.8	32.5	97.4

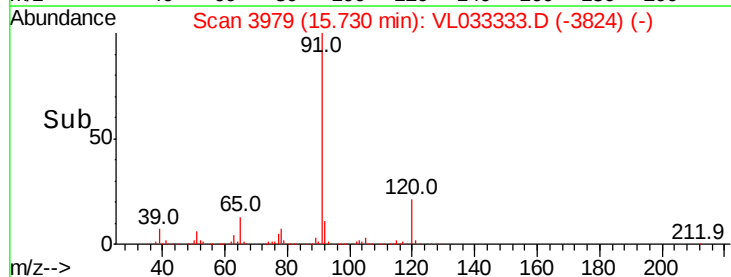
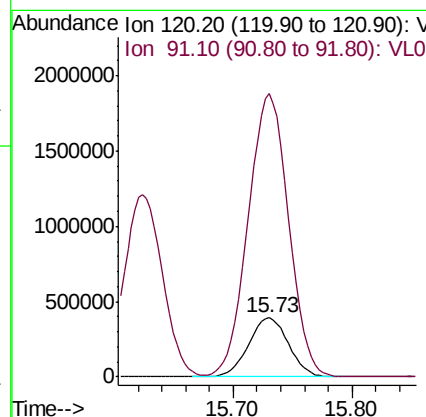
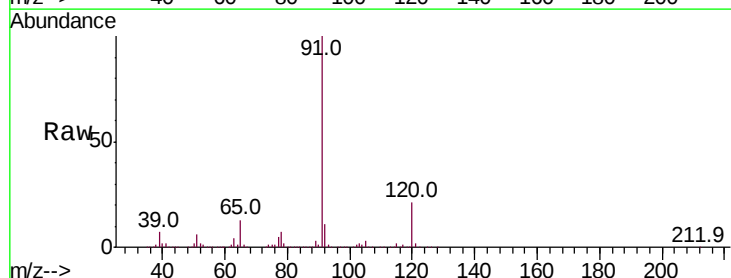
Manual Integrations
 APPROVED

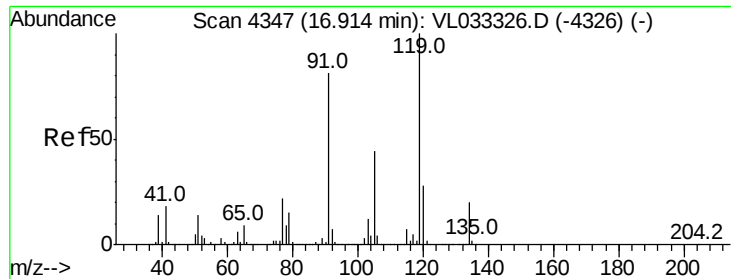
MMDadoda
 3/19/2019 10:02:29 AM



#64
 n-propylbenzene
 Concen: 9.203 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Tgt Ion	120	Resp	909255
Ion Ratio	100	Lower	Upper
120	100		
91	487.2	389.8	584.6





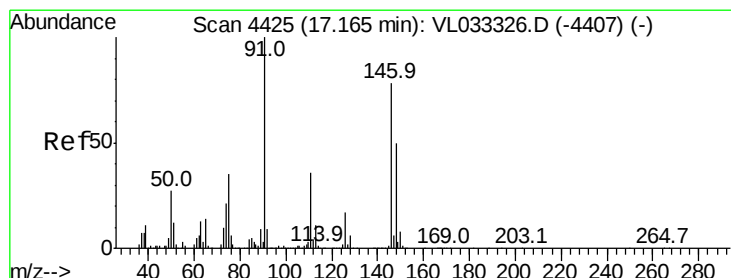
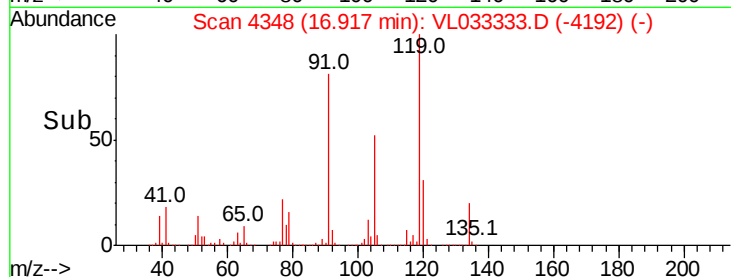
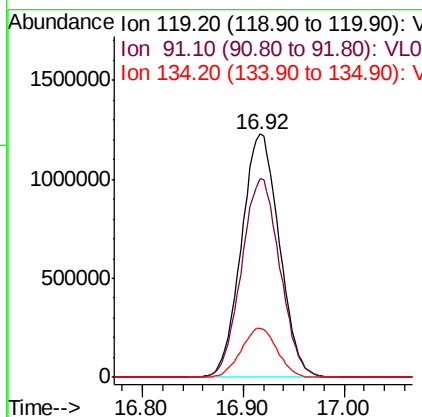
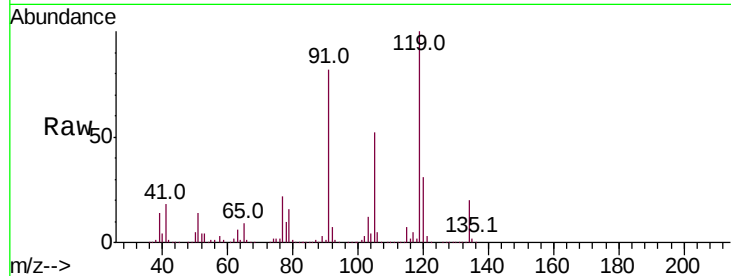
#65
tert-Butylbenzene
Concen: 9.119 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. 0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Instrument :
MSVOA_L
ClientSampleId :
ICVVL031519

Tot Ion:119 Resp: 3205514
Ion Ratio Lower Upper
119 100
91 82.8 67.2 100.8
134 19.2 15.4 23.2

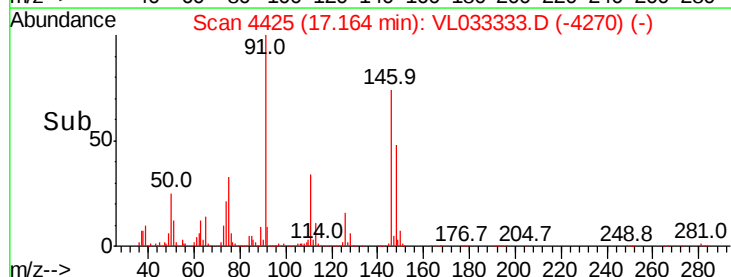
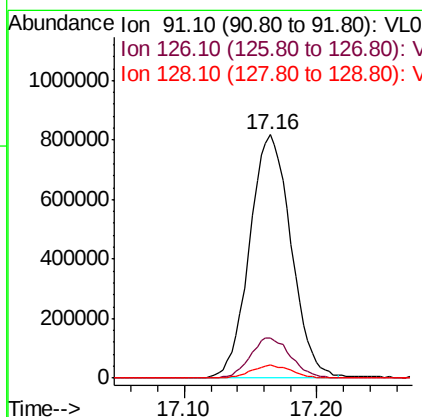
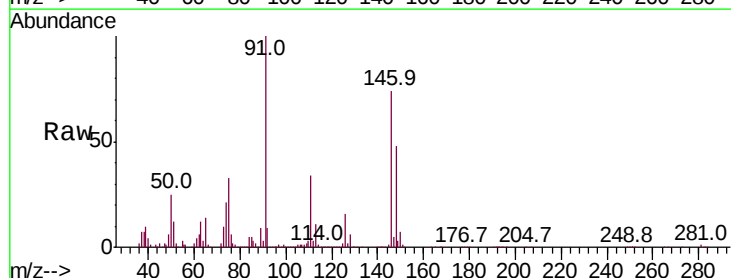
Manual Integrations
APPROVED

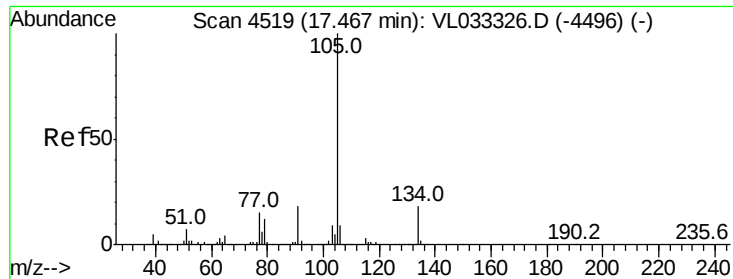
MMDadoda
3/19/2019 10:02:29 AM



#66
Benzyl Chloride
Concen: 12.199 ppbv
RT: 17.16 min Scan# 4425
Delta R.T. -0.00 min
Lab File: VL033333.D
Acq: 15 Mar 2019 15:20

Tgt Ion: 91 Resp: 1772079
Ion Ratio Lower Upper
91 100
126 16.2 13.2 19.8
128 5.3 4.2 6.4





#67

sec-Butylbenzene

Concen: 9.200 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion:105 Resp: 4582296

Ion Ratio Lower Upper

105 100

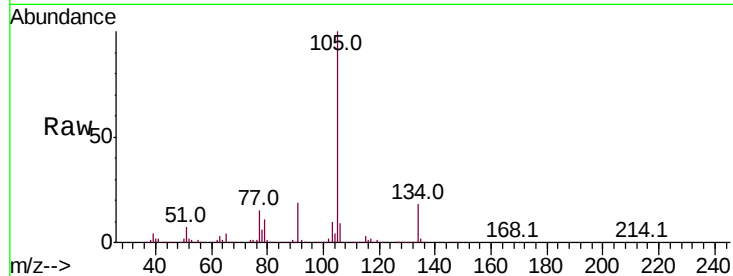
134 17.8 14.2 21.4

Manual Integrations

APPROVED

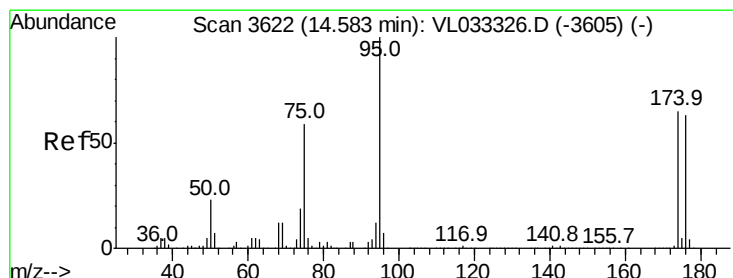
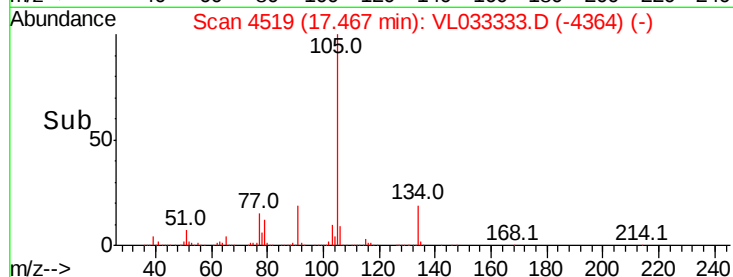
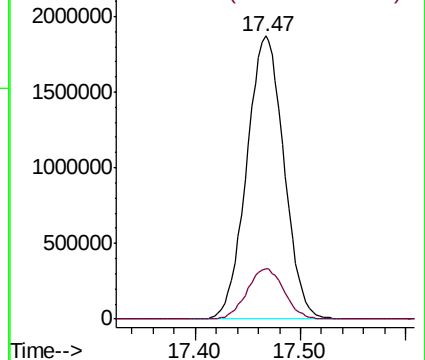
MMDadoda

3/19/2019 10:02:29 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.487 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

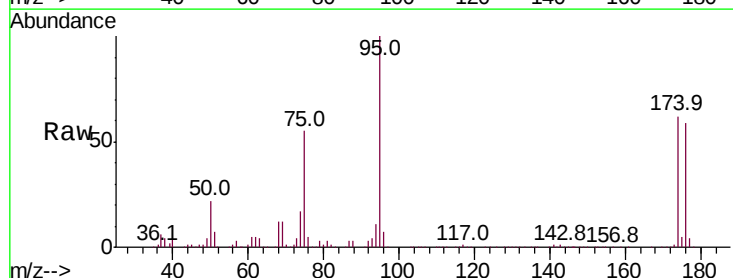
Tgt Ion: 95 Resp: 1664659

Ion Ratio Lower Upper

95 100

174 64.1 51.5 77.3

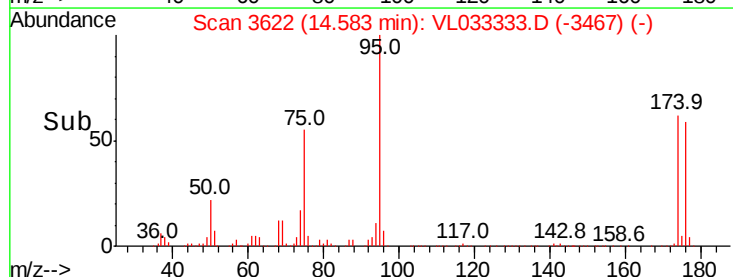
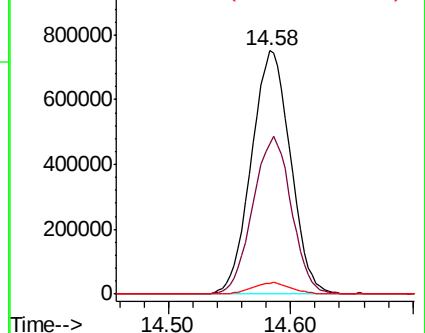
175 4.7 3.8 5.6

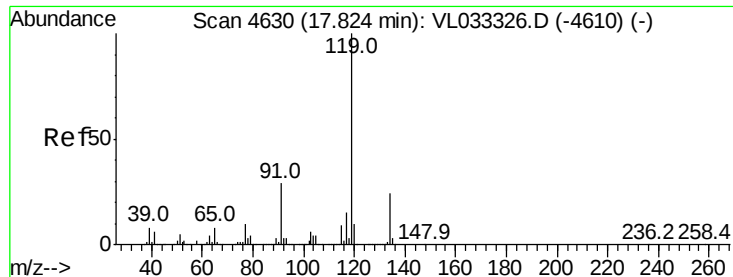


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





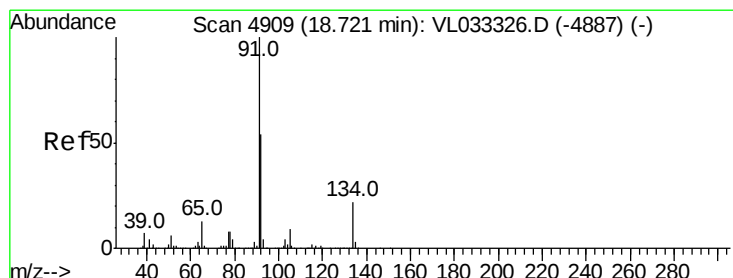
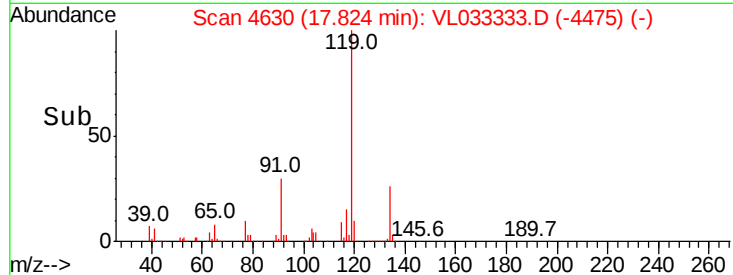
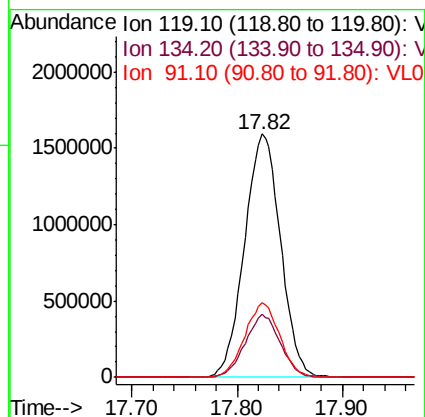
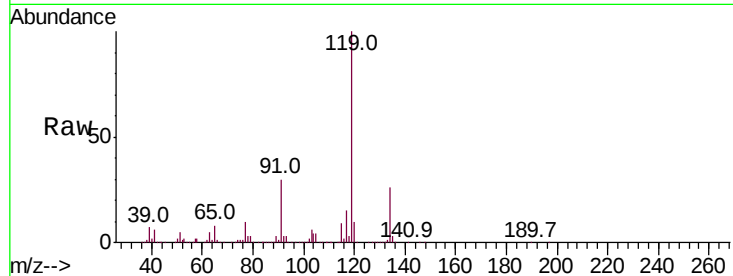
#69
 p-Isopropyltoluene
 Concen: 9.304 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	19.8	29.6
91	29.9	23.4	35.2

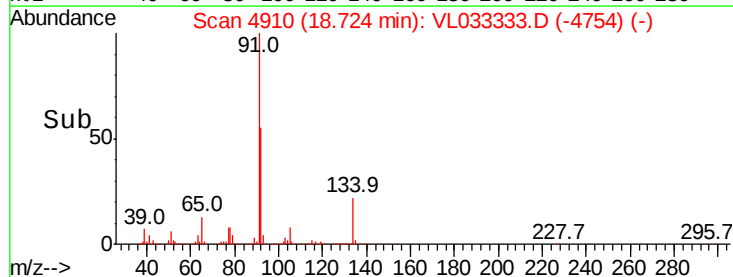
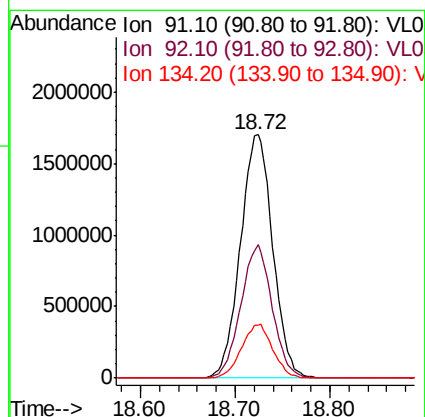
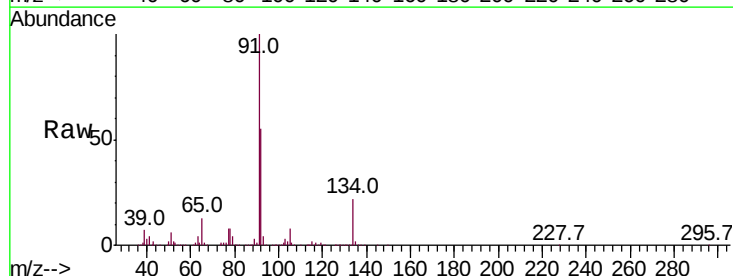
Manual Integrations
 APPROVED

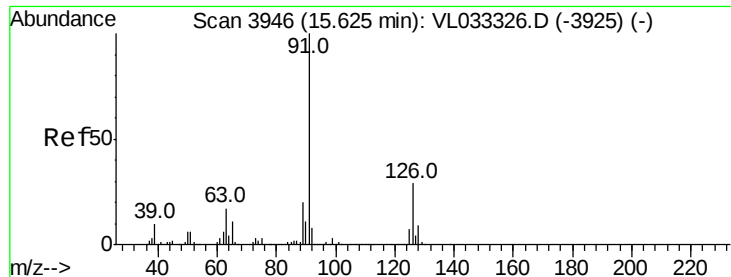
MMDadoda
 3/19/2019 10:02:29 AM



#70
 n-Butylbenzene
 Concen: 9.285 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.8	64.2
134	21.5	17.4	26.0





#71

2-Chlorotoluene

Concen: 9.225 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion: 91 Resp: 2803800

Ion Ratio Lower Upper

91 100

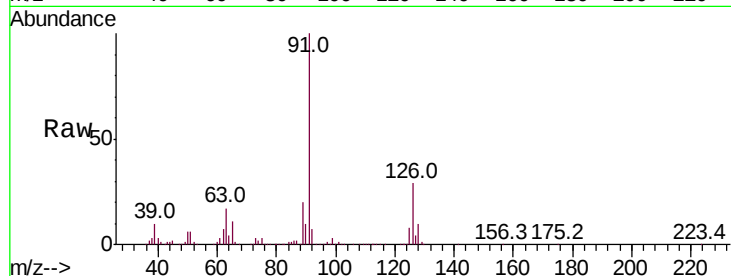
126 29.3 11.6 46.6

Manual Integrations

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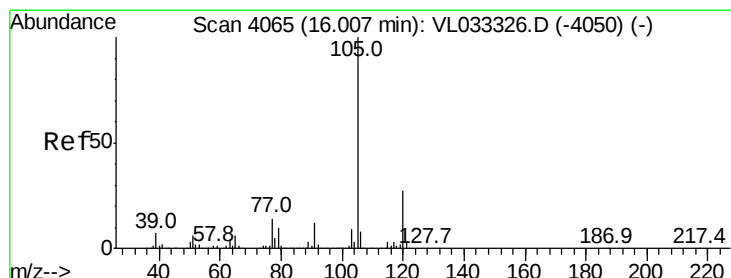
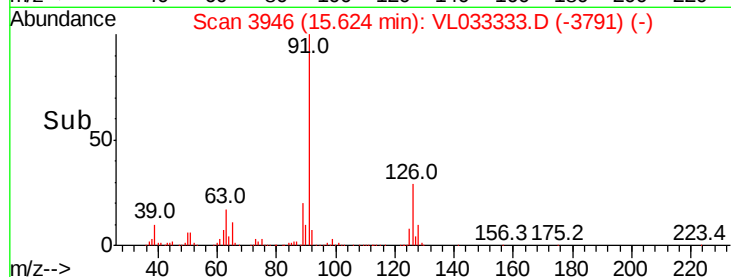
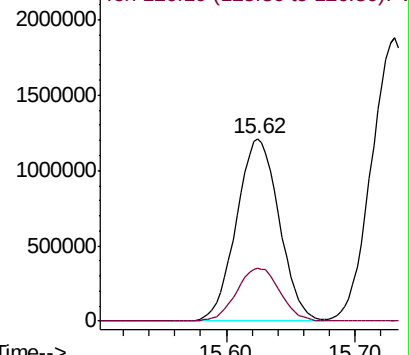
MMDadoda

3/19/2019 10:02:29 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.337 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Tgt Ion:105 Resp: 2977979

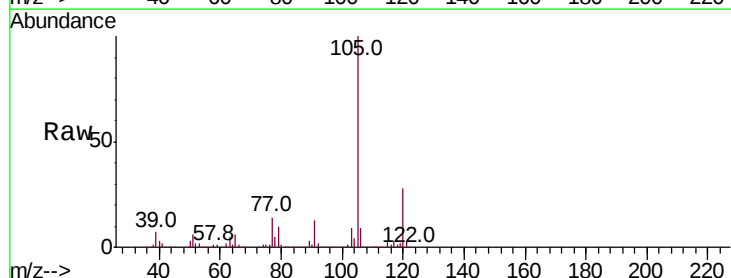
Ion Ratio Lower Upper

105 100

120 28.3 22.9 34.3

91 12.9 10.2 15.2

77 14.0 11.1 16.7

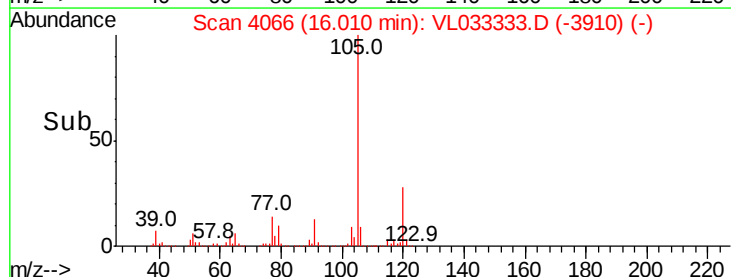
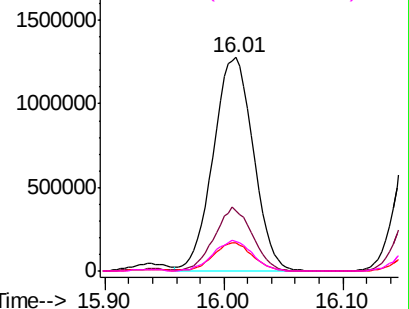


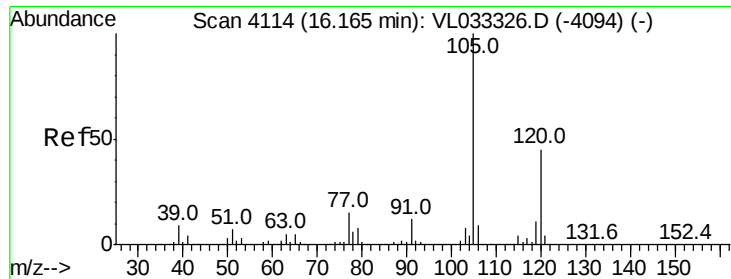
Abundance Ion 105.10 (104.80 to 105.80): V

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





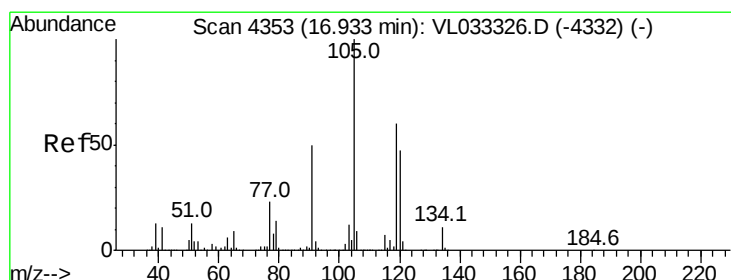
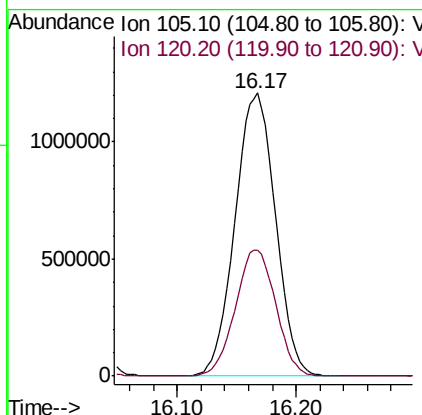
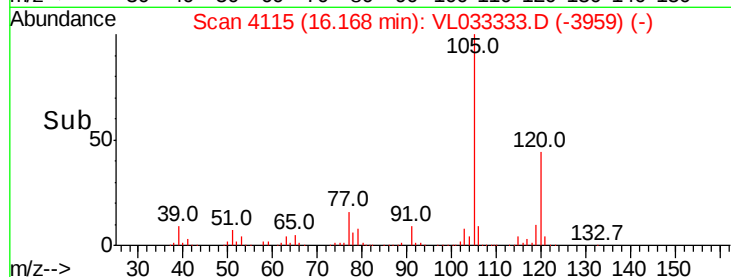
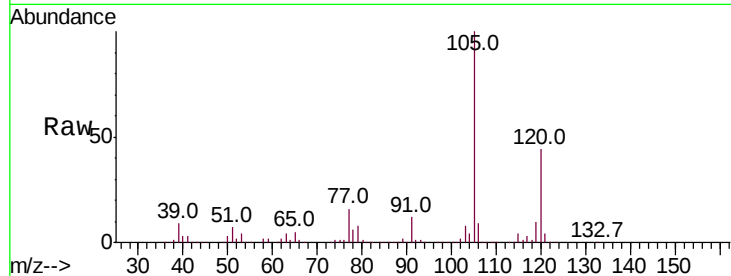
#73
 1,3,5-Trimethylbenzene
 Concen: 9.124 ppbv
 RT: 16.17 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

Tot Ion:105 Resp: 2834852
 Ion Ratio Lower Upper
 105 100
 120 44.3 36.2 54.4

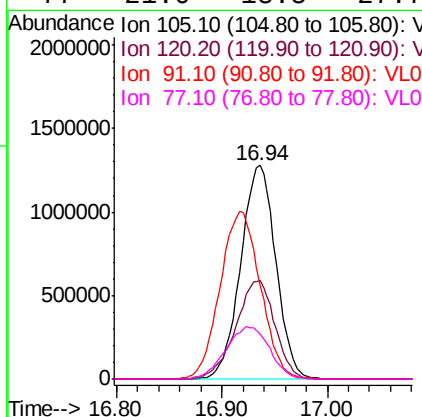
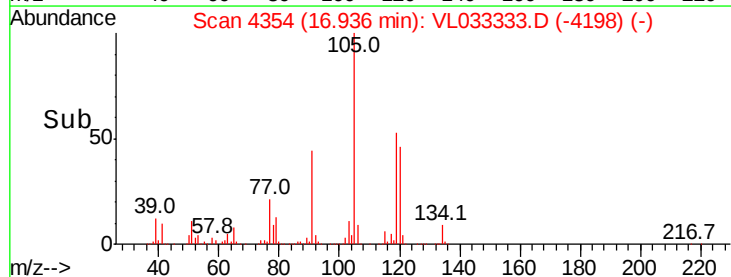
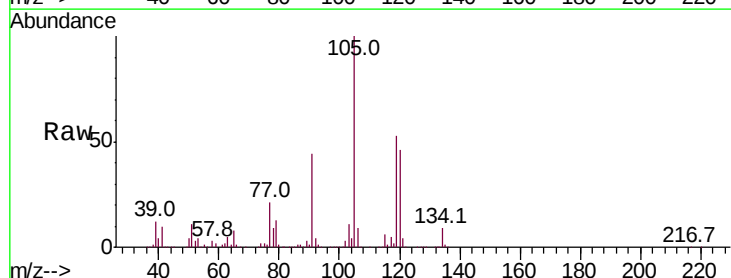
Manual Integrations
 APPROVED

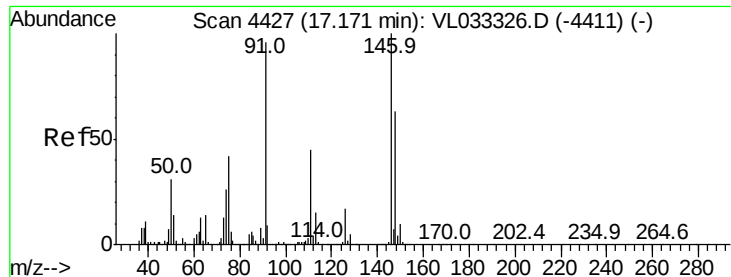
MMDadoda
 3/19/2019 10:02:29 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.997 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. 0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Tgt Ion:105 Resp: 2960562
 Ion Ratio Lower Upper
 105 100
 120 46.1 37.4 56.2
 91 43.8 41.0 61.4
 77 21.0 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 8.816 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. 0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion:146 Resp: 1709770

Ion Ratio Lower Upper

146 100

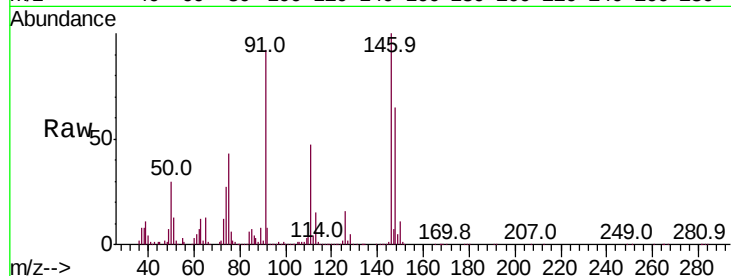
111 45.9 22.8 68.3

148 64.1 31.9 95.7

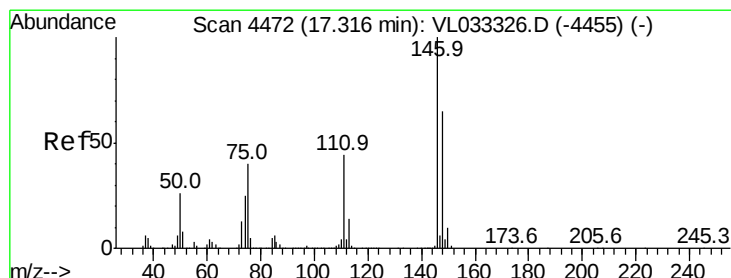
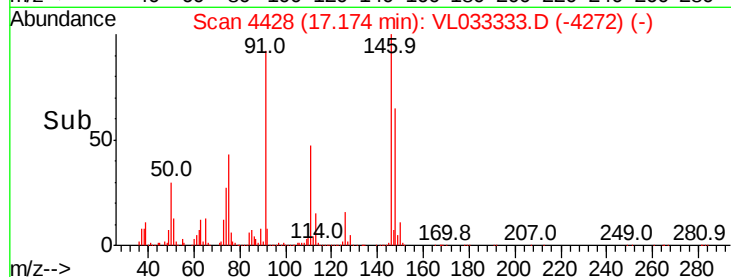
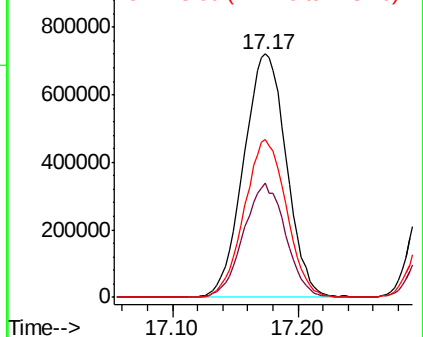
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Abundance Ion 146.00 (145.70 to 146.70): V
1000000
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.127 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

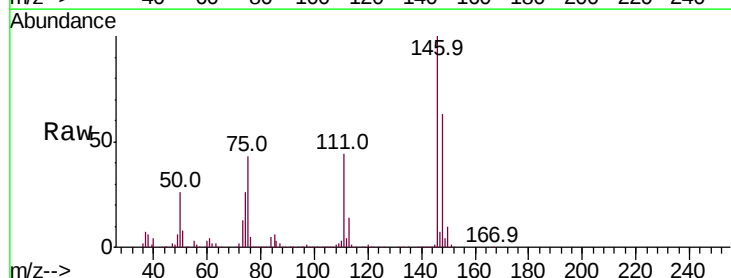
Tgt Ion:146 Resp: 1713728

Ion Ratio Lower Upper

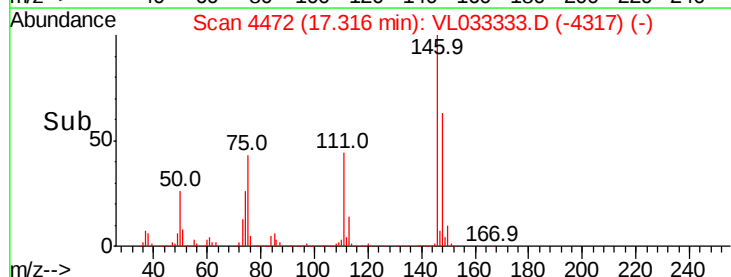
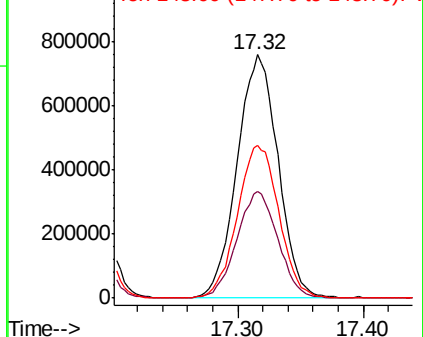
146 100

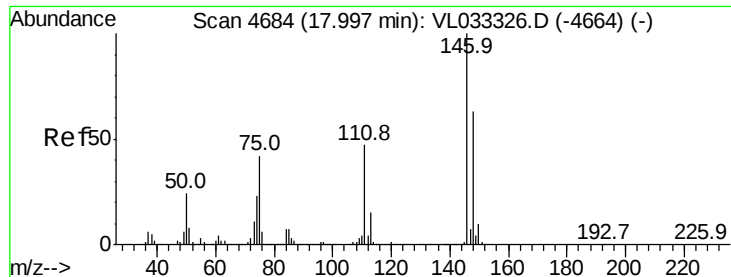
111 44.5 21.9 65.7

148 64.2 32.1 96.5



Abundance Ion 146.00 (145.70 to 146.70): V
1000000
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.071 ppbv

RT: 18.00 min Scan# 4685

Delta R.T. 0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion:146 Resp: 1666210

Ion Ratio Lower Upper

146 100

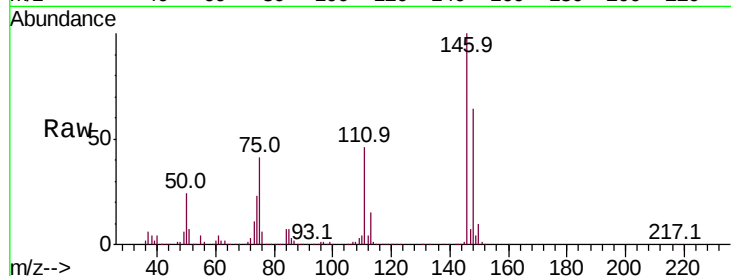
111 47.2 23.5 70.6

148 64.2 31.9 95.9

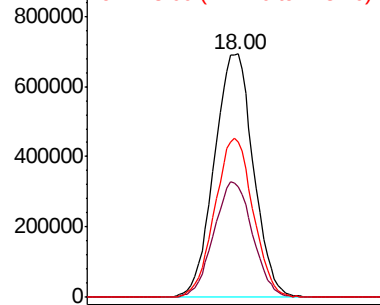
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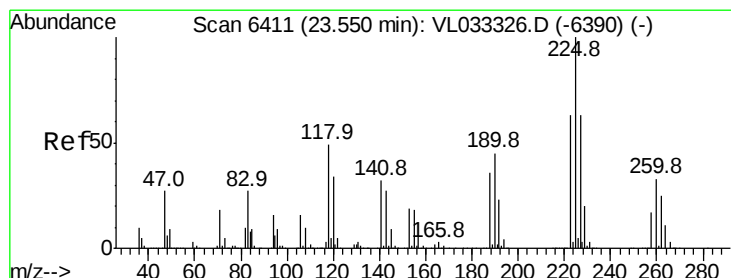
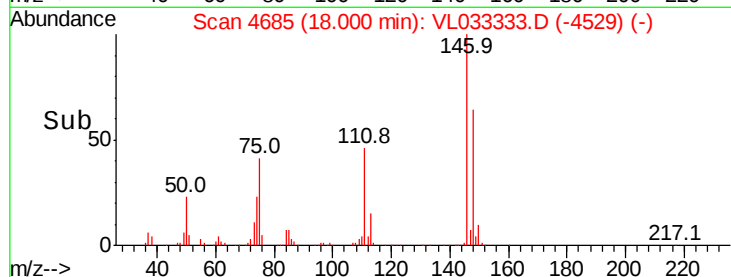
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



Time-->



#78

Hexachloro-1,3-Butadiene

Concen: 11.344 ppbv

RT: 23.55 min Scan# 6412

Delta R.T. 0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

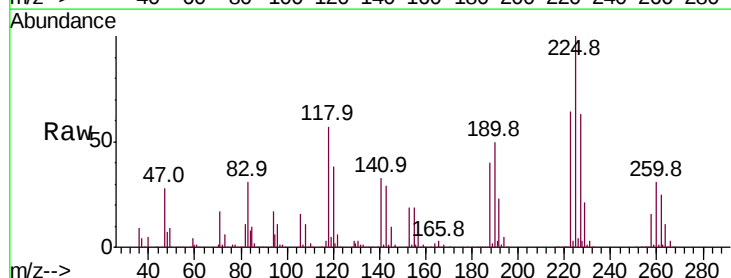
Tgt Ion:225 Resp: 1249262

Ion Ratio Lower Upper

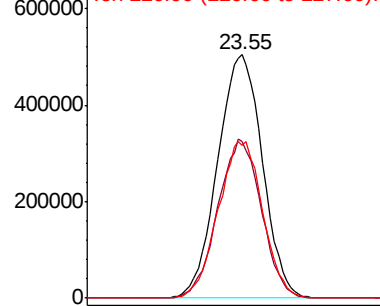
225 100

223 63.4 50.4 75.6

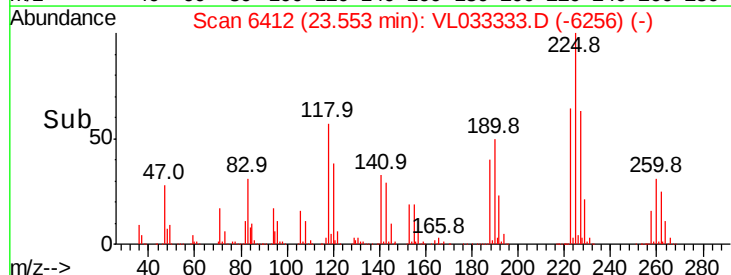
227 64.1 50.5 75.7

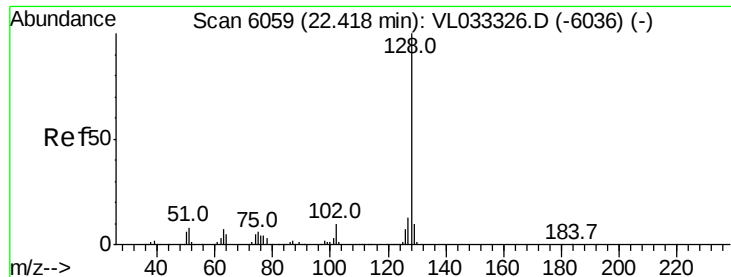


Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



Time-->





#79

Naphthalene

Concen: 9.206 ppbv

RT: 22.42 min Scan# 6060

Delta R.T. 0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

Instrument :

MSVOA_L

ClientSampleId :

ICVVL031519

Tot Ion:128 Resp: 2919240

Ion Ratio Lower Upper

128 100

127 12.4 10.1 15.1

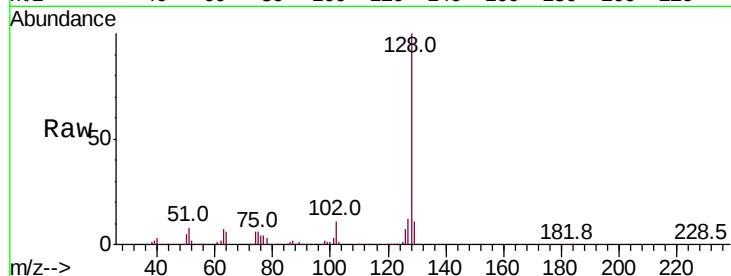
129 11.0 8.2 12.2

Manual Integrations

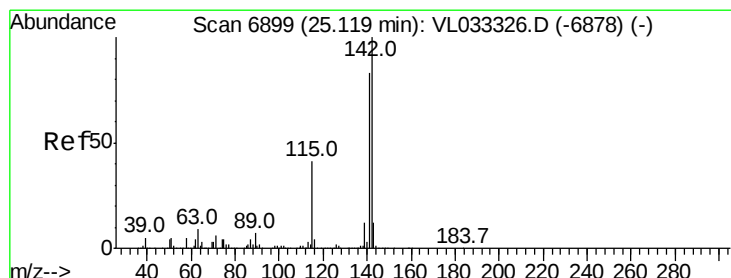
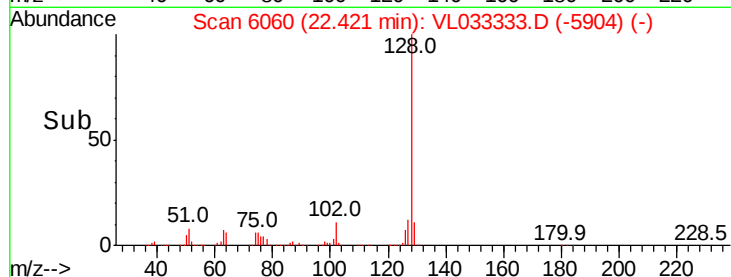
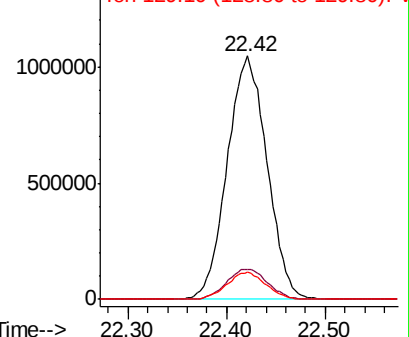
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 11.077 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. -0.00 min

Lab File: VL033333.D

Acq: 15 Mar 2019 15:20

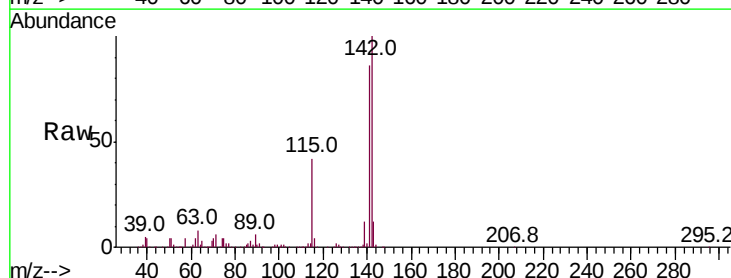
Tgt Ion:142 Resp: 1665507

Ion Ratio Lower Upper

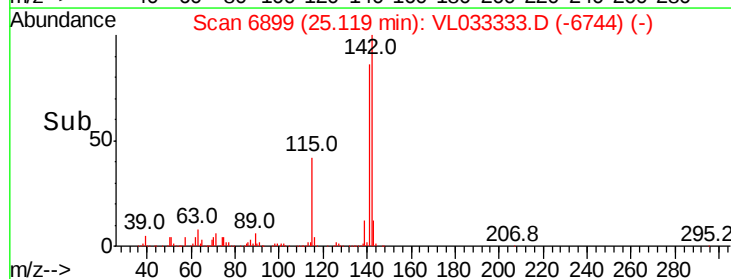
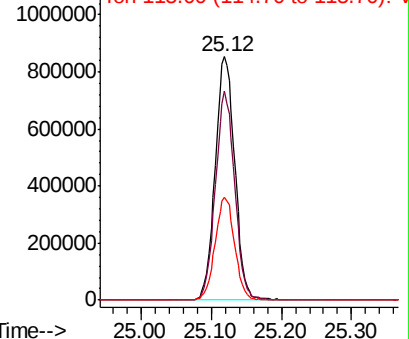
142 100

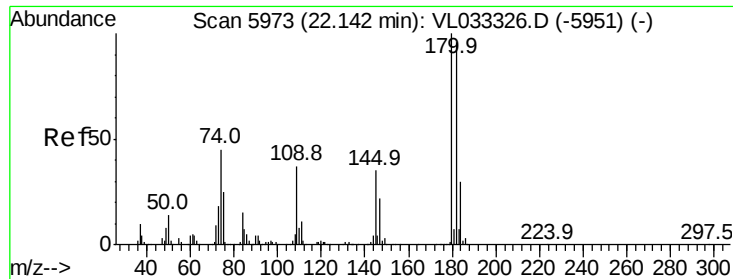
141 84.3 67.1 100.7

115 42.0 33.8 50.6



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.041 ppbv
 RT: 22.14 min Scan# 5974
 Delta R.T. 0.00 min
 Lab File: VL033333.D
 Acq: 15 Mar 2019 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.1	114.1
184	30.7	24.6	37.0

Manual Integrations
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